

2024 (14)

- Chaichitehrani, N., and R. He (2024), Investigation of ocean environmental variables and their variations associated with major Loop Current eddy-shedding events in the Gulf of Mexico, *Deep Sea Research Part II: Topical Studies in Oceanography*, 213, 105354, doi: <https://doi.org/10.1016/j.dsr2.2023.105354>
- Coro, G. (2024), An Open Science oriented Bayesian interpolation model for marine parameter observations, *Environmental Modelling & Software*, 172, 105901, doi: <https://doi.org/10.1016/j.envsoft.2023.105901> BGCArgo
- Gray, A. R. (2024), The Four-Dimensional Carbon Cycle of the Southern Ocean, *Annual Review of Marine Science*, 16(1), null, doi: <https://doi.org/10.1146/annurev-marine-041923-104057> BGCArgo
- Herut, B., et al. (2024), Tar pollution event (2021) at the Southeastern Levantine oligotrophic basin, short-term impacts and operational oceanography perspectives, *Marine Pollution Bulletin*, 198, 115892, doi: <https://doi.org/10.1016/j.marpolbul.2023.115892>
- Huang, L., W. Zhuang, W. Lu, Y. Zhang, D. Edwing, and X.-H. Yan (2024), Rapid Sea Level Rise in the Tropical Southwest Indian Ocean in the Recent Two Decades, *Geophys. Res. Lett.*, 51(1), e2023GL106011, doi: <https://doi.org/10.1029/2023GL106011>
- Jiang, M., J. Wang, G. Li, B. Liu, and X. Chen (2024), Is seasonal closure an effective way to conserve oceanic squids—Taking Chinese autonomic seasonal closure on the high seas as an example, *Fisheries Research*, 271, 106914, doi: <https://doi.org/10.1016/j.fishres.2023.106914>
- Li, Z., and H. Aiki (2024), Interpreting Negative IOD Events Based on the Transfer Routes of Wave Energy in the Upper Ocean, *J. Phys. Oceanogr.*, 54(1), 95-113, doi: <https://doi.org/10.1175/JPO-D-22-0267.1>
- Nielsen-Englyst, P., J. L. Høyer, I. Karagali, W. M. Kolbe, R. T. Tonboe, and L. T. Pedersen (2024), Impact of microwave observations on the estimation of Arctic sea surface temperatures, *Remote Sens. Environ.*, 301, 113949, doi: <https://doi.org/10.1016/j.rse.2023.113949>
- Pang, S., X. Wang, and J. Vialard (2024), How Well Do CMIP6 Models Simulate Salinity Barrier Layers in the North Indian Ocean?, *J. Clim.*, 37(1), 289-308, doi: <https://doi.org/10.1175/JCLI-D-23-0366.1>
- Pita, I., M. Goes, D. L. Volkov, S. Dong, G. Goni, and M. Cirano (2024), An ARGO and XBT Observing System for the Atlantic Meridional Overturning Circulation and Meridional Heat Transport (AXMOC) at 22.5°S, *Journal of Geophysical Research: Oceans*, 129(1), e2023JC020010, doi: <https://doi.org/10.1029/2023JC020010>
- Sandery, P. A., E. Jones, and D. Griffin (2024), Representing uncertainty in limited-area data assimilating ocean models, *Ocean Model.*, 187, 102301, doi: <https://doi.org/10.1016/j.ocemod.2023.102301>
- Shee, A., S. Sil, and R. Deogharia (2024), Three-dimensional characteristics of mesoscale eddies in the western boundary current region of the Bay of Bengal using ROMS-NPZD, *Dynamics of Atmospheres and Oceans*, 105, 101424, doi: <https://doi.org/10.1016/j.dynatmoce.2023.101424> BGCArgo
- Tedesco, P. F., L. E. Baker, A. C. Naveira Garabato, M. R. Mazloff, S. T. Gille, C. P. Caulfield,

- and A. Mashayek (2024), Spatiotemporal Characteristics of the Near-Surface Turbulent Cascade at the Submesoscale in the Drake Passage, *J. Phys. Oceanogr.*, *54*(1), 187–215, doi: <https://doi.org/10.1175/JPO-D-23-0108.1>
- Wang, C., C. Chen, H. Li, and Y. He (2024), Feature-oriented reconstruction of vertical temperature profile: A feasibility study in the Northwest Pacific Ocean, *Deep Sea Research Part I: Oceanographic Research Papers*, *203*, 104201, doi: <https://doi.org/10.1016/j.dsr.2023.104201>

2023 (526)

- Abot, L., C. Provost, and L. Poli (2023), Recent Convection Decline in the Greenland Sea: Insights From the Mercator Ocean System Over 2008–2020, *Journal of Geophysical Research: Oceans*, *128*(6), e2022JC019320, doi: <https://doi.org/10.1029/2022JC019320>.
- Adiwira, H., and T. Suga (2023), The interannual variability of the Indian Ocean subtropical mode water based on the Argo data, *Frontiers in Marine Science*, *10*, doi: <https://doi.org/10.3389/fmars.2023.1205292>.
- Aguedjou, H. M. A., A. Chaigneau, I. Dadou, Y. Morel, E. Baloïtcha, and C. Y. Da-Allada (2023), Imprint of Mesoscale Eddies on Air-Sea Interaction in the Tropical Atlantic Ocean, *Remote Sensing*, *15*(12), doi: <https://doi.org/10.3390/rs15123087>.
- Akhil, V. P., M. Lengaigne, K. S. Krishnamohan, M. G. Keerthi, and J. Vialard (2023), Southeastern Arabian Sea Salinity variability: mechanisms and influence on surface temperature, *Climate Dynamics*, *61*, 3737–3754, doi: <https://doi.org/10.1007/s00382-023-06765-z>.
- Alexander, M. A., J. D. Scott, M. G. Jacox, C. Deser, D. J. Amaya, A. Capotondi, and A. S. Phillips (2023), A survey of coastal conditions around the continental US using a high-resolution ocean reanalysis, *Prog. Oceanogr.*, *216*, 103055, doi: <https://doi.org/10.1016/j.pocean.2023.103055>.
- Alkire, M. B., and S. Riser (2023), Net Community Production in the Argentine Basin Estimated From Nitrate Drawdown Using Biogeochemical Argo Floats, *Journal of Geophysical Research: Oceans*, *128*(8), e2023JC019858, doi: <https://doi.org/10.1029/2023JC019858>.
- Allende, S., T. Fichefet, H. Goosse, and A. M. Treguier (2023), On the ability of OMIP models to simulate the ocean mixed layer depth and its seasonal cycle in the Arctic Ocean, *Ocean Model.*, *184*, 102226, doi: <https://doi.org/10.1016/j.ocemod.2023.102226>.
- Almeida, L., N. Kolodziejczyk, and C. Lique (2023), Large Scale Salinity Anomaly Has Triggered the Recent Decline of Winter Convection in the Greenland Sea, *Geophys. Res. Lett.*, *50*(21), e2023GL104766, doi: <https://doi.org/10.1029/2023GL104766>.
- Amaya, D. J., M. A. Alexander, J. D. Scott, and M. G. Jacox (2023), An evaluation of high-resolution ocean reanalyses in the California current system, *Prog. Oceanogr.*, *210*, 102951, doi: <https://doi.org/10.1016/j.pocean.2022.102951>.
- An, S.-I., H.-J. Park, S.-K. Kim, W. Cai, A. Santoso, D. Kim, and J.-S. Kug (2023), Main drivers of Indian Ocean Dipole asymmetry revealed by a simple IOD model, *npj Climate and*

- Atmospheric Science*, 6(1), 93, doi: <https://doi.org/10.1038/s41612-023-00422-2>.
- Anjaneyan, P., J. Kuttippurath, P. V. Hareesh Kumar, S. M. Ali, and M. Raman (2023), Spatio-temporal changes of winter and spring phytoplankton blooms in Arabian sea during the period 1997–2020, *Journal of Environmental Management*, 332, 117435, doi: <https://www.sciencedirect.com/science/article/pii/S0301479723002232>.
- Arango, H. G., J. Levin, J. Wilkin, and A. M. Moore (2023), 4D-Var data assimilation in a nested model of the Mid-Atlantic Bight, *Ocean Model.*, 184, 102201, doi: <https://doi.org/10.1016/j.ocemod.2023.102201>.
- Aravind, H. M., V. Verma, S. Sarkar, M. A. Freilich, A. Mahadevan, P. J. Haley, P. F. J. Lermusiaux, and M. R. Allshouse (2023), Lagrangian surface signatures reveal upper-ocean vertical displacement conduits near oceanic density fronts, *Ocean Model.*, 181, 102136, doi: <https://doi.org/10.1016/j.ocemod.2022.102136>.
- Arellano, C., V. Echevin, L. Merma-Mora, A. Chamorro, D. Gutiérrez, A. Aguirre-Velarde, J. Tam, and F. Colas (2023), Circulation and stratification drivers during the summer season in the upwelling bay of Paracas (Peru): A modelling study, *Cont. Shelf Res.*, 254, 104923, doi: <https://doi.org/10.1016/j.csr.2022.104923>.
- Arostegui, M. C., B. Muhling, E. Culhane, H. Dewar, S. S. Koch, and C. D. Braun (2023), A shallow scattering layer structures the energy seascape of an open ocean predator, *Science Advances*, 9(40), eadi8200, doi: <https://doi.org/10.1126/sciadv.adi8200>.
- Arumí-Planas, C., et al. (2023), The South Atlantic Circulation Between 34.5°S, 24°S and Above the Mid-Atlantic Ridge From an Inverse Box Model, *Journal of Geophysical Research: Oceans*, 128(5), e2022JC019614, doi: <https://doi.org/10.1029/2022JC019614>.
- Ayissi, F. F. B. K., C. Y. Da Allada, E. Baloitcha, S. Tilmes, and P. J. Irvine (2023), Impact of Stratospheric Geoengineering on Sea Surface Temperature in the Northern Gulf of Guinea, *Climate*, 11(4), doi: <https://doi.org/10.3390/cli11040087>.
- Azarian, C., L. Bopp, A. Pietri, J.-B. Sallée, and F. d'Ovidio (2023), Current and projected patterns of warming and marine heatwaves in the Southern Indian Ocean, *Prog. Oceanogr.*, 215, 103036, doi: <https://doi.org/10.1016/j.pocean.2023.103036>.
- Azevedo Correia de Souza, J. M., S. H. Suanda, P. P. Couto, R. O. Smith, C. Kerry, and M. Roughton (2023), Moana Ocean Hindcast – a > 25-year simulation for New Zealand waters using the Regional Ocean Modeling System (ROMS) v3.9 model, *Geosci. Model Dev.*, 16(1), 211-231, doi: <https://doi.org/10.5194/gmd-16-211-2023>.
- Bach, L. T., V. Tamsitt, K. Baldry, J. McGee, E. C. Laurenceau-Cornec, R. F. Strzepek, Y. Xie, and P. W. Boyd (2023), Identifying the Most (Cost-)Efficient Regions for CO₂ Removal With Iron Fertilization in the Southern Ocean, *Glob. Biogeochem. Cycle*, 37(11), e2023GB007754, doi: <https://doi.org/10.1029/2023GB007754>.
- Bagnell, A., and T. DeVries (2023), Global Mean Sea Level Rise Inferred From Ocean Salinity and Temperature Changes, *Geophys. Res. Lett.*, 50(7), e2022GL101004, doi: <https://doi.org/10.1029/2022GL101004>.
- Bai, L., H. Lü, H. Huang, S. Muhammad Imran, X. Ding, and Y. Zhang (2023), Effects of Anticyclonic Eddies on the Unique Tropical Storm Deliwe (2014) in the Mozambique Channel, *Journal of Marine Science and Engineering*, 11(1), doi: <https://doi.org/10.3390/jmse11010129>.

- Baker, L. E., A. Mashayek, and A. C. Naveira Garabato (2023), Boundary Upwelling of Antarctic Bottom Water by Topographic Turbulence, *AGU Advances*, 4(5), e2022AV000858, doi: <https://doi.org/10.1029/2022AV000858>.
- Barboni, A., S. Coadou-Chaventon, A. Stegner, B. Le Vu, and F. Dumas (2023), How subsurface and double-core anticyclones intensify the winter mixed-layer deepening in the Mediterranean Sea, *Ocean Sci.*, 19(2), 229-250, doi: <https://doi.org/10.5194/os-19-229-2023>.
- Barnoud, A., J. Pfeffer, A. Cazenave, R. Fraudeau, V. Rousseau, and M. Ablain (2023), Revisiting the global mean ocean mass budget over 2005–2020, *Ocean Sci.*, 19(2), 321-334, doi: <https://doi.org/10.5194/os-19-321-2023>.
- Barreto, F. T. C., F. E. Curbani, G. M. Zielinsky, M. B. L. da Silva, K. C. Lacerda, and D. F. Rodrigues (2023), Development of a multigrid operational forecast system for the oceanic region off Rio de Janeiro State, *Ocean Model.*, 184, 102206, doi: <https://doi.org/10.1016/j.ocemod.2023.102206>.
- Barrowclift, E., S. M. Gravel, S. A. Pardo, J. S. Bigman, P. Berggren, and N. K. Dulvy (2023), Tropical rays are intrinsically more sensitive to overfishing than the temperate skates, *Biological Conservation*, 281, 110003, doi: <https://doi.org/10.1016/j.biocon.2023.110003>.
- Bebieva, Y., and M. S. Lozier (2023), Fresh Water and Atmospheric Cooling Control on Density-Compensated Overturning in the Labrador Sea, *J. Phys. Oceanogr.*, 53(11), 2575-2589, doi: <https://doi.org/10.1175/JPO-D-22-0238.1>.
- Behrens, E., and H. Bostock (2023), The Response of the Subtropical Front to Changes in the Southern Hemisphere Westerly Winds—Evidence From Models and Observations, *Journal of Geophysical Research: Oceans*, 128(2), e2022JC019139, doi: <https://doi.org/10.1029/2022JC019422>.
- Belattmania, A., A. El Arrim, A. Ayouche, G. Charria, K. Hilmi, and B. El Moumni (2023), K nearest neighbors classification of water masses in the western Alboran Sea using the sigma-pi diagram, *Deep Sea Research Part I: Oceanographic Research Papers*, 196, 104024, doi: <https://doi.org/10.1016/j.dsr.2023.104024>.
- Belkin, I. M., and J. W. Short (2023), Echoes of the 2013–2015 Marine Heat Wave in the Eastern Bering Sea and Consequent Biological Responses, *Journal of Marine Science and Engineering*, 11(5), doi: <https://doi.org/10.3390/jmse11050958>.
- Belyaev, K., A. Kuleshov, I. Smirnov, and N. P. Tuchkova (2023), Several Properties of the Model Solution after Data Assimilation into the NEMO Ocean Circulation Model, *Lobachevskii Journal of Mathematics*, 44(6), 2251-2256, doi: <https://doi.org/10.1134/S1995080223060100>.
- Belyaev, K. P., A. A. Kuleshov, Y. D. Resnyanskii, I. N. Smirnov, and R. Y. Fadeev (2023), Numerical Experiments with the Nemo Ocean Circulation Model and the Assimilation of Observational Data from Argo Drifters, *Mathematical Models and Computer Simulations*, 15(5), 842-849, doi: <https://doi.org/10.1134/S2070048223050022>.
- Bendtsen, J., C. R. Vives, and K. Richardson (2023), Primary production in the North Atlantic estimated from in situ water column data observed by Argo floats and remote sensing, *Frontiers in Marine Science*, 10, doi:

- <https://doi.org/10.3389/fmars.2023.1062413>.
- Beron-Vera, F. J., M. J. Olascoaga, L. Helfmann, and P. Miron (2023), Sampling-Dependent Transition Paths of Iceland–Scotland Overflow Water, *J. Phys. Oceanogr.*, 53(4), 1151–1160, doi: <https://doi.org/10.1175/JPO-D-22-0172.1>.
- Bhattacharya, T., K. Chakraborty, P. K. Ghoshal, J. Ghosh, and B. Baduru (2023), Response of Surface Ocean pCO₂ to Tropical Cyclones in Two Contrasting Basins of the Northern Indian Ocean, *Journal of Geophysical Research: Oceans*, 128(4), e2022JC019058, doi: <https://doi.org/10.1029/2022JC019058>.
- Bingham, F. M., S. K. Brodnitz, and A. L. Gordon (2023), Seasonal and Interannual Variability of the Subtropical South Indian Ocean Sea Surface Salinity Maximum, *Journal of Geophysical Research: Oceans*, 128(2), e2022JC018982, doi: <https://doi.org/10.1029/2022JC018982>.
- Błaszczczyk, M., M. Moskalik, M. Grabiec, J. Jania, W. Walczowski, T. Wawrzyniak, A. Strzelewicz, E. Malnes, T. R. Lauknes, and W. T. Pfeffer (2023), The Response of Tidewater Glacier Termini Positions in Hornsund (Svalbard) to Climate Forcing, 1992–2020, *Journal of Geophysical Research: Earth Surface*, 128(5), e2022JF006911, doi: <https://doi.org/10.1029/2022JF006911>.
- Bodner, A. S., B. Fox-Kemper, L. Johnson, L. P. Van Roekel, J. C. McWilliams, P. P. Sullivan, P. S. Hall, and J. Dong (2023), Modifying the Mixed Layer Eddy Parameterization to Include Frontogenesis Arrest by Boundary Layer Turbulence, *J. Phys. Oceanogr.*, 53(1), 323–339, doi: <https://doi.org/10.1175/JPO-D-21-0297.1>.
- Bohman, S. M., and A. L. Gordon (2023), Role of the dipole mode index in governing the freshwater content within the bay of bengal summer pycnocline, *Deep Sea Research Part I: Oceanographic Research Papers*, 200, 104154, doi: <https://doi.org/10.1016/j.dsr.2023.104154>.
- Börgel, F., M. Gröger, H. E. M. Meier, C. Duthel, H. Radtke, and L. Borchert (2023), The impact of Atlantic Multidecadal Variability on Baltic Sea temperatures limited to winter, *npj Climate and Atmospheric Science*, 6(1), 64, doi: <https://doi.org/10.1038/s41612-023-00373-8>.
- Börger, L., M. Schindelegger, H. Dobsław, and D. Salstein (2023), Are Ocean Reanalyses Useful for Earth Rotation Research?, *Earth and Space Science*, 10(3), e2022EA002700, doi: <https://doi.org/10.1029/2022EA002700>.
- Boschetti, F., M. Feng, J. R. Hartog, A. J. Hobday, and X. Zhang (2023), Sea surface temperature predictability assessment with an ensemble machine learning method using climate model simulations, *Deep Sea Research Part II: Topical Studies in Oceanography*, 210, 105308, doi: <https://doi.org/10.1016/j.dsr2.2023.105308>.
- Boyd, P. W., H. Claustre, L. Legendre, J.-P. Gattuso, and P. Y. Le Traon (2023), Operational Monitoring of Open-Ocean Carbon Dioxide Removal Deployments: Detection, Attribution, and Determination of Side Effects, *Oceanography*, 36(1), 2–10, doi: <https://doi.org/10.5670/oceanog.2023.s1.2>.
- Boyer, T., et al. (2023), Effects of the Pandemic on Observing the Global Ocean, *Bull. Amer. Meteorol. Soc.*, 104(2), E389–E410, doi: <https://doi.org/10.1175/BAMS-D-21-0210.1>.
- Brakstad, A., G. Gebbie, K. Våge, E. Jeansson, and S. R. Ólafsdóttir (2023), Formation and pathways of dense water in the Nordic Seas based on a regional inversion, *Prog.*

- Oceanogr.*, 212, 102981, doi: <https://doi.org/10.1016/j.pocean.2023.102981>.
- Brand, S. V. S., C. J. Prend, and L. D. Talley (2023), Modification of North Atlantic Deep Water by Pacific/Upper Circumpolar Deep Water in the Argentine Basin, *Geophys. Res. Lett.*, 50(2), e2022GL099419, doi: <https://doi.org/10.1029/2022GL099419>.
- Brewin, R. J. W., et al. (2023), Ocean carbon from space: Current status and priorities for the next decade, *Earth-Science Reviews*, 240, 104386, doi: <https://doi.org/10.1016/j.earscirev.2023.104386>.
- Brunet, G., et al. (2023), Advancing Weather and Climate Forecasting for Our Changing World, *Bull. Amer. Meteorol. Soc.*, 104(4), E909-E927, doi: <https://doi.org/10.1175/BAMS-D-21-0262.1>.
- Buhl-Mortensen, L., et al. (2023), Lophelia reefs off North and West Africa—Comparing environment and health, *Marine Biology*, 171(1), 29, doi: <https://doi.org/10.1007/s00227-023-04344-8>.
- Bushinsky, S. M., and I. Cerovečki (2023), Subantarctic Mode Water Biogeochemical Formation Properties and Interannual Variability, *AGU Advances*, 4(2), e2022AV000722, doi: <https://doi.org/10.1029/2022AV000722>.
- Cai, W., et al. (2023), Antarctic shelf ocean warming and sea ice melt affected by projected El Niño changes, *Nature Climate Change*, 13(3), 235-239, doi: <https://doi.org/10.1038/s41558-023-01610-x>.
- Cao, H., B. Fox-Kemper, Z. Jing, X. Song, and Y. Liu (2023), Towards the Upper-Ocean Unbalanced Submesoscale Motions in the Oleander Observations, *J. Phys. Oceanogr.*, 53(4), 1123-1138, doi: <https://doi.org/10.1175/JPO-D-22-0134.1>.
- Capotondi, A., and B. Qiu (2023), Decadal Variability of the Pacific Shallow Overturning Circulation and the Role of Local Wind Forcing, *J. Clim.*, 36(3), 1001-1015, doi: <https://doi.org/10.1175/JCLI-D-22-0408.1>.
- Carolina Castillo-Trujillo, A., Y.-O. Kwon, P. Fratantoni, K. Chen, H. Seo, M. A. Alexander, and V. S. Saba (2023), An evaluation of eight global ocean reanalyses for the Northeast U.S. Continental shelf, *Prog. Oceanogr.*, 219, 103126, doi: <https://doi.org/10.1016/j.pocean.2023.103126>.
- Carrier, M. J., H. E. Ngodock, S. R. Smith, J. M. D'Addezio, and J. Osborne (2023), Impact of spatially-dense in-situ observations on ocean forecasts of mixed layer and thermocline depth, *J. Oper. Oceanogr.*, 1-21, doi: <https://doi.org/10.1080/1755876X.2023.2166213>.
- Carton, J. A., and G. A. Chepurin (2023), RARE: The Regional Arctic Reanalysis, *J. Clim.*, 36(8), 2333-2348, doi: <https://doi.org/10.1175/JCLI-D-22-0340.1>.
- Carvalho, N. F., et al. (2023), Underwater surveys reveal deep-sea corals in newly explored regions of the southwest Atlantic, *Communications Earth & Environment*, 4(1), 282, doi: <https://doi.org/10.1038/s43247-023-00924-0>.
- Cerovečki, I., and F. A. Haumann (2023), Decadal Reorganization of Subantarctic Mode Water, *Geophys. Res. Lett.*, 50(14), e2022GL102148, doi: <https://doi.org/10.1029/2022GL102148>.
- Cha, H., J.-H. Moon, T. Kim, and Y. T. Song (2023), A process-based assessment of the sea-level rise in the northwestern Pacific marginal seas, *Communications Earth & Environment*, 4(1), 300, doi: <https://doi.org/10.1038/s43247-023-00965-5>.

- Chacko, N. (2023), On the rapid weakening of super-cyclone Amphan over the Bay of Bengal, *Ocean Dyn.*, 73(6), 359-372, doi: <https://doi.org/10.1007/s10236-023-01555-x>.
- Chafik, L., J. Nilsson, T. Rossby, and A. Kondetharayil Soman (2023), The Faroe-Shetland Channel Jet: Structure, Variability, and Driving Mechanisms, *Journal of Geophysical Research: Oceans*, 128(4), e2022JC019083, doi: <https://doi.org/10.1029/2022JC019083>.
- Chamberlain, P., B. Cornuelle, L. D. Talley, K. Speer, C. Hancock, and S. Riser (2023), Acoustic Float Tracking with the Kalman Smoother, *J. Atmos. Ocean. Technol.*, 40(1), 15-35, doi: <https://doi.org/10.1175/JTECH-D-21-0063.1>.
- Chamberlain, P., L. D. Talley, B. Cornuelle, M. Mazloff, and S. T. Gille (2023), Optimizing the Biogeochemical Argo Float Distribution, *J. Atmos. Ocean. Technol.*, 40(11), 1355-1379, doi: <https://doi.org/10.1175/JTECH-D-22-0093.1>.
- Chamberlain, P., L. D. Talley, M. Mazloff, E. van Sebille, S. T. Gille, T. Tucker, M. Scanderbeg, and P. Robbins (2023), Using Existing Argo Trajectories to Statistically Predict Future Float Positions with a Transition Matrix, *J. Atmos. Ocean. Technol.*, 40(9), 1083-1103, doi: <https://doi.org/10.1175/JTECH-D-22-0070.1>.
- Chang, Y.-C., G.-Y. Chen, P. C. Chu, L. R. Centurioni, and C.-C. Liu (2023), Wave and current in extratropical versus tropical cyclones, *J. Oceanogr.*, 79(5), 537-546, doi: <https://doi.org/10.1007/s10872-023-00694-5>.
- Chaudhary, L., S. Sharma, and M. Sajwan (2023), Systematic Literature Review of Various Neural Network Techniques for Sea Surface Temperature Prediction Using Remote Sensing Data, *Archives of Computational Methods in Engineering*, 30(8), 5071-5103, doi: <https://doi.org/10.1007/s11831-023-09970-5>.
- Chen, C., Z. c. Liu, Y. Li, and K. Yang (2023), Reconstructing subsurface temperature profiles with sea surface data worldwide through deep evidential regression methods, *Deep Sea Research Part I: Oceanographic Research Papers*, 197, 104054, doi: <https://doi.org/10.1016/j.dsr.2023.104054>.
- Chen, G., W. Han, X. Ma, Y. Li, T. Zhang, and D. Wang (2023), Role of Extreme Indian Ocean Dipole in Regulating Three-Dimensional Freshwater Content in the Southeast Indian Ocean, *Geophys. Res. Lett.*, 50(4), e2022GL102290, doi: <https://doi.org/10.1029/2022GL102290>.
- Chen, H.-H., Y. Wang, P. Xiu, Y. Yu, W. Ma, and F. Chai (2023), Combined oceanic and atmospheric forcing of the 2013/14 marine heatwave in the northeast Pacific, *npj Climate and Atmospheric Science*, 6(1), 3, doi: <https://doi.org/10.1038/s41612-023-00327-0>.
- Chen, J.-J., and X. Cheng (2023), Attribution of the Subsurface Temperature Change in the Southern Hemisphere, *J. Phys. Oceanogr.*, 53(1), 97-111, doi: <https://doi.org/10.1175/JPO-D-21-0226.1>.
- Chen, L., X. Pan, J. Zhang, C. B. Demeaux, and Y. Wang (2023), Inversion diffuse attenuation coefficient of photosynthetically active radiation based on deep learning, *Opt. Express*, 31(23), 37365-37380, doi: <https://doi.org/10.1364/OE.499743>.
- Chen, Z., X. Wang, L. Liu, and X. Wang (2023), Estimating Three-Dimensional Structures of Eddy in the South Indian Ocean From the Satellite Observations Based on the isQG

- Method, *Earth and Space Science*, 10(10), e2023EA002991, doi: <https://doi.org/10.1029/2023EA002991>.
- Cheng, L., et al. (2023), Another Year of Record Heat for the Oceans, *Adv. Atmos. Sci.*, 40, 963-974, doi: <https://doi.org/10.1007/s00376-023-2385-2>.
- Cheng, Y., M. Zhang, Z. Song, G. Wang, C. Zhao, Q. Shu, Y. Zhang, and F. Qiao (2023), A quantitative analysis of marine heatwaves in response to rising sea surface temperature, *Science of The Total Environment*, 881, 163396, doi: <https://doi.org/10.1016/j.scitotenv.2023.163396>.
- Chi, J., Y. Du, J. Qi, M. Wang, and R. Chen (2023), The Impact of the Eastern Pacific Fresh and Warm Pools on the Bimodal Seasonality of Barrier Layers, *Journal of Geophysical Research: Oceans*, 128(3), e2022JC018876, doi: <https://doi.org/10.1029/2022JC018876>.
- Chidichimo, M. P., et al. (2023), Energetic overturning flows, dynamic interocean exchanges, and ocean warming observed in the South Atlantic, *Communications Earth & Environment*, 4(1), 10, doi: <https://doi.org/10.1038/s43247-022-00644-x>.
- Cimoli, L., G. Gebbie, S. G. Purkey, and W. M. Smethie (2023), Annually Resolved Propagation of CFCs and SF6 in the Global Ocean Over Eight Decades, *Journal of Geophysical Research: Oceans*, 128(3), e2022JC019337, doi: <https://doi.org/10.1029/2022JC019337>.
- Cimoli, L., et al. (2023), Significance of Diapycnal Mixing Within the Atlantic Meridional Overturning Circulation, *AGU Advances*, 4(2), e2022AV000800, doi: <https://doi.org/10.1029/2022AV000800>.
- Clem, K. R., et al. (2023), Antarctica and the Southern Ocean, *Bull. Amer. Meteorol. Soc.*, 104(9), S322-S365, doi: <https://doi.org/10.1175/BAMS-D-23-0077.1>.
- Clément, L., E. Frajka-Williams, N. von Oppeln-Bronikowski, I. Goszczko, and B. de Young (2023), Cessation of Labrador Sea Convection Triggered by Distinct Fresh and Warm (Sub)Mesoscale Flows, *J. Phys. Oceanogr.*, 53(8), 1959-1977, doi: <https://doi.org/10.1175/JPO-D-22-0178.1>.
- Coggins, A., A. J. Watson, U. Schuster, N. Mackay, B. King, E. McDonagh, and A. J. Poulton (2023), Surface ocean carbon budget in the 2017 south Georgia diatom bloom: Observations and validation of profiling biogeochemical argo floats, *Deep Sea Research Part II: Topical Studies in Oceanography*, 209, 105275, doi: <https://doi.org/10.1016/j.dsr2.2023.105275>.
- Combes, V., R. P. Matano, and E. D. Palma (2023), Circulation and Cross-Shelf Exchanges in the Northern Shelf of the Southwestern Atlantic: Dynamics, *Journal of Geophysical Research: Oceans*, 128(7), e2023JC019887, doi: <https://doi.org/10.1029/2023JC019887>.
- Conrow, L., C. Fu, H. Huang, N. Andrienko, G. Andrienko, and R. Weibel (2023), A conceptual framework for developing dashboards for big mobility data, *Cartography and Geographic Information Science*, 1-20, doi: <https://doi.org/10.1080/15230406.2023.2190164>.
- Cox, I., R. J. W. Brewin, G. Dall'Olmo, K. Sheen, S. Sathyendranath, R. Rasse, and O. Ulloa (2023), Distinct habitat and biogeochemical properties of low-oxygen-adapted tropical oceanic phytoplankton, *Limnol. Oceanogr.*, 68(9), 2022-2039, doi:

- <https://doi.org/10.1002/Ino.12404>.
- Cutroneo, L., and M. Capello (2023), The Cold Waters in the Port of Genoa (NW Mediterranean Sea) during the Marine Heatwave in Summer 2022, *Journal of Marine Science and Engineering*, 11(8), 1568, doi: <https://doi.org/10.3390/jmse11081568>.
- Dai, L., X. Jiang, Y. Xia, M. Wang, S. Tang, and Y. Du (2023), Merging Process of the Great Whirl and the Socotra Gyre in 2019, *Journal of Geophysical Research: Oceans*, 128(12), e2023JC020145, doi: <https://doi.org/10.1029/2023JC020145>.
- Dai, M., et al. (2023), Upper Ocean Biogeochemistry of the Oligotrophic North Pacific Subtropical Gyre: From Nutrient Sources to Carbon Export, *Reviews of Geophysics*, 61(3), e2022RG000800, doi: <https://doi.org/10.1029/2022RG000800>.
- Dall'Olmo, G., et al. (2023), Real-time quality control of optical backscattering data from Biogeochemical-Argo floats [version 2; peer review: 4 approved], *Open Research Europe*, 2(118), doi: <https://doi.org/10.12688/openreseurope.15047.1>.
- de Marez, C., J. Callies, B. Haines, D. Rodriguez-Chavez, and J. Wang (2023), Observational Constraints on the Submesoscale Sea Surface Height Variance of Balanced Motion, *J. Phys. Oceanogr.*, 53(5), 1221-1235, doi: <https://doi.org/10.1175/JPO-D-22-0188.1>.
- Densmore, C. R., E. R. Sanabia, and S. R. Jayne (2023), Ocean Temperature Observations in Hurricane Dorian (2019), *Mon. Weather Rev.*, 151(6), 1509-1520, doi: <https://doi.org/10.1175/MWR-D-22-0271.1>.
- Dong, J., L. Sun, J. A. Carton, and S. G. Penny (2023), Improvements of Lagrangian Data Assimilation Tested in the Gulf of Mexico, *Mon. Weather Rev.*, 151(8), 1927-1936, doi: <https://doi.org/10.1175/MWR-D-22-0202.1>.
- Dong, M., H. Zhi, Y. Huang, and S. Shi (2023), Comparison of multiple salinity datasets: upper ocean salinity and stratification in the tropical Pacific during the Argo period, *Journal of Oceanology and Limnology*, doi: <https://doi.org/10.1007/s00343-022-2209-8>.
- Drake, P., C. A. Edwards, H. G. Arango, J. Wilkin, T. TajalliBakhsh, B. Powell, and A. M. Moore (2023), Forecast Sensitivity-based Observation Impact (FSOI) in an analysis–forecast system of the California Current Circulation, *Ocean Model.*, 182, 102159, doi: <https://doi.org/10.1016/j.ocemod.2022.102159>.
- Du, D., A. C. Subramanian, W. Han, H.-H. Wei, B. B. Sarojini, M. Balmaseda, and F. Vitart (2023), Assessing the Impact of Ocean In Situ Observations on MJO Propagation Across the Maritime Continent in ECMWF Subseasonal Forecasts, *Journal of Advances in Modeling Earth Systems*, 15(2), e2022MS003044, doi: <https://doi.org/10.1029/2022MS003044>.
- Du, Y., et al. (2023), Multi-scale ocean dynamical processes in the Indo-Pacific Convergence Zone and their climatic and ecological effects, *Earth-Science Reviews*, 237, 104313, doi: <https://doi.org/10.1016/j.earscirev.2023.104313>.
- Duan, J., Y. Li, L. Cheng, P. Lin, and F. Wang (2023), Heat Storage in the Upper Indian Ocean: The Role of Wind-Driven Redistribution, *J. Clim.*, 36(7), 2221-2242, doi: <https://doi.org/10.1175/JCLI-D-22-0534.1>.
- Dymova, O., and N. Markova (2023), Numerical Estimation of the Black Sea Circulation near the Continental Slope Using SKIRON and ERA5 Atmospheric Forcing, *Environmental Sciences Proceedings*, 25(1), 61, doi: <https://doi.org/10.3390/ECWS-7-14305>.

- Ellison, E., A. Mashayek, and M. Mazloff (2023), The Sensitivity of Southern Ocean Air-Sea Carbon Fluxes to Background Turbulent Diapycnal Mixing Variability, *Journal of Geophysical Research: Oceans*, 128(9), e2023JC019756, doi: <https://doi.org/10.1029/2023JC019756>.
- Fan, H., L. F. Borchert, S. Brune, V. Koul, and J. Baehr (2023), North Atlantic subpolar gyre provides downstream ocean predictability, *npj Climate and Atmospheric Science*, 6(1), 145, doi: <https://doi.org/10.1038/s41612-023-00469-1>.
- Fan, Q., Y. Yao, Q. Liao, H. Chen, X. Zou, G. Fu, Z. Feng, Y. Ding, and F. Yuan (2023), Marine Heatwaves Contribute More to Changing Air-Water Exchange of Semi-Volatile Organic Compounds Than Mean Sea Surface Temperature Rise, *Earth's Future*, 11(7), e2022EF003242, doi: <https://doi.org/10.1029/2022EF003242>.
- Fedorov, A. M., I. L. Bashmachnikov, D. A. Iakovleva, D. A. Kuznetsova, and R. P. Raj (2023), Deep convection in the Subpolar Gyre: Do we have enough data to estimate its intensity?, *Dynamics of Atmospheres and Oceans*, 101, 101338, doi: <https://doi.org/10.1016/j.dynatmoce.2022.101338>.
- Feng, C., W. Yin, S. He, M. He, and X. Li (2023), Evaluation of SST Data Products from Multi-Source Satellite Infrared Sensors in the Bohai-Yellow-East China Sea, *Remote Sensing*, 15(10), doi: <https://doi.org/10.3390/rs15102493>.
- Fierro-Arcos, D., S. Corney, A. Meyer, H. Hayashida, A. E. Kiss, and P. Heil (2023), Analysis of ecologically relevant sea ice and ocean variables for the Southern Ocean using a high-resolution model to inform ecosystem studies, *Prog. Oceanogr.*, 215, 103049, doi: <https://doi.org/10.1016/j.pocean.2023.103049>.
- Findell, K. L., et al. (2023), Explaining and Predicting Earth System Change: A World Climate Research Programme Call to Action, *Bull. Amer. Meteorol. Soc.*, 104(1), E325-E339, doi: <https://doi.org/10.1175/BAMS-D-21-0280.1>.
- Flaim, C. A., and S. K. Seroy (2023), An interactive 3D model of thermohaline circulation to support learning in undergraduate introductory oceanography courses, *Journal of Geoscience Education*, 1-11, doi: <https://doi.org/10.1080/10899995.2023.2289782>.
- Flores, E., I. Fernández-Urruzola, S. I. Cantarero, M. Pizarro-Koch, M. Zabel, J. Sepúlveda, and O. Ulloa (2023), Particulate Organic Matter in the Atacama Trench: Tracing Sources and Possible Transport Mechanisms to the Hadal Seafloor, *Journal of Geophysical Research: Biogeosciences*, 128(8), e2023JG007401, doi: <https://doi.org/10.1029/2023JG007401>.
- Fomin, V. V., and N. A. Diansky (2023), Methods of Assimilation of Sea Surface Temperature Satellite Data and Their Influence on the Reconstruction of Hydrophysical Fields of the Black, Azov, and Marmara Seas Using the Institute of Numerical Mathematics Ocean Model (INMOM), *Russian Meteorology and Hydrology*, 48(2), 97-108, doi: <https://doi.org/10.3103/S1068373923020024>.
- Fournier, S., F. M. Bingham, C. González-Haro, A. Hayashi, K. M. Ulfax Carlin, S. K. Brodnitz, V. González-Gambau, and M. Kuusela (2023), Quantification of Aquarius, SMAP, SMOS and Argo-Based Gridded Sea Surface Salinity Product Sampling Errors, *Remote Sensing*, 15(2), 422, doi: <https://doi.org/10.3390/rs15020422>.
- Fragkopoulou, E., A. Sen Gupta, M. J. Costello, T. Wernberg, M. B. Araújo, E. A. Serrão, O. De Clerck, and J. Assis (2023), Marine biodiversity exposed to prolonged and intense

- subsurface heatwaves, *Nature Climate Change*, 13(10), 1114-1121, doi: <https://doi.org/10.1038/s41558-023-01790-6>.
- Fredston, A. L., et al. (2023), Marine heatwaves are not a dominant driver of change in demersal fishes, *Nature*, 621(7978), 324-329, doi: <https://doi.org/10.1038/s41586-023-06449-y>.
- Frey, D. I., and A. A. Kubryakov (2023), Dynamic Structure of Eddies of the Brazil-Malvinas Confluence Zone Revealed by Direct Measurements and Satellite Altimetry, *Journal of Geophysical Research: Oceans*, 128(11), e2023JC019957, doi: <https://doi.org/10.1029/2023JC019957>.
- Fu, M., C. Dong, J. Dong, and W. Sun (2023), Analysis of Mesoscale Eddy Merging in the Subtropical Northwest Pacific Using Satellite Remote Sensing Data, *Remote Sensing*, 15(17), 4307, doi: <https://doi.org/10.3390/rs15174307>.
- Fu, Y., et al. (2023), Seasonality of the Meridional Overturning Circulation in the subpolar North Atlantic, *Communications Earth & Environment*, 4(1), 181, doi: <https://doi.org/10.1038/s43247-023-00848-9>.
- Fujii, Y., T. Yoshida, H. Sugimoto, I. Ishikawa, and S. Urakawa (2023), Evaluation of a global ocean reanalysis generated by a global ocean data assimilation system based on a four-dimensional variational (4DVAR) method, *Frontiers in Climate*, 4, doi: <https://doi.org/10.3389/fclim.2022.1019673>.
- Gao, S., S. Han, S. Wang, D. Wu, M. Wang, K. Wu, and L. Liu (2023), The Influence of Typhoon 'Hongxia' on the Intrusion of the Kuroshio Current into the South China Sea, *Journal of Ocean University of China*, 22(2), 297-312, doi: <https://doi.org/10.1007/s11802-023-5166-8>.
- Gao, Z., Y. Jiang, J. He, J. Wu, and G. Christakos (2023), Comparing eight remotely sensed sea surface temperature products and Bayesian maximum entropy-based data fusion products, *Spatial Statistics*, 54, 100741, doi: <https://doi.org/10.1016/j.spasta.2023.100741>.
- Garcés-Rodríguez, Y., L. Sánchez-Velasco, A. Parés-Sierra, S. P. A. Jiménez-Rosenberg, L. Tenorio-Fernández, J. Montes-Aréchiga, and V. M. Godínez (2023), Distribution and transport of Fish larvae at the entrance of the Gulf of California (September, 2016), *Deep Sea Research Part I: Oceanographic Research Papers*, 193, 103957, doi: <https://doi.org/10.1016/j.dsr.2022.103957>.
- Gasparin, F., J.-M. Lellouche, S. E. Cravatte, G. Ruggiero, B. Rohith, P. Y. Le Traon, and E. Rémy (2023), On the control of spatial and temporal oceanic scales by existing and future observing systems: An observing system simulation experiment approach, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1021650>.
- Ge, K., Y. Li, Y. Lyu, P. Lin, L. Cheng, and F. Wang (2023), Surface Salinity Changes of the Tropical and Subtropical Oceans Since 1970 and Their Relationship With Surface Freshwater Fluxes, *Journal of Geophysical Research: Oceans*, 128(12), e2023JC020207, doi: <https://doi.org/10.1029/2023JC020207>.
- Geoffroy, G., J. Nycander, M. C. Buijsman, J. F. Shriver, and B. K. Arbic (2023), Validating the spatial variability in the semidiurnal internal tide in a realistic global ocean simulation with Argo and mooring data, *Ocean Sci.*, 19(3), 811-835, doi: <https://doi.org/10.5194/os-19-811-2023>.

- Germineaud, C., D. L. Volkov, S. Cravatte, and W. Llovel (2023), Forcing Mechanisms of the Interannual Sea Level Variability in the Midlatitude South Pacific during 2004–2020, *Remote Sensing*, 15(2), doi: <https://doi.org/10.3390/rs15020352>.
- Ghosh, R., D. Putrasahan, E. Manzini, K. Lohmann, P. Keil, R. Hand, J. Bader, D. Matei, and J. H. Jungclaus (2023), Two Distinct Phases of North Atlantic Eastern Subpolar Gyre and Warming Hole Evolution under Global Warming, *J. Clim.*, 36(6), 1881-1894, doi: <https://doi.org/10.1175/JCLI-D-22-0222.1>.
- Giddy, I. S., S. A. Nicholson, B. Y. Queste, S. Thomalla, and S. Swart (2023), Sea-Ice Impacts Inter-Annual Variability of Phytoplankton Bloom Characteristics and Carbon Export in the Weddell Sea, *Geophys. Res. Lett.*, 50(16), e2023GL103695, doi: <https://doi.org/10.1029/2023GL103695>.
- Gomes, R. K., C. R. P. Belchior, L. A. V. Pinto, and U. A. B. V. Monteiro (2023), Investigation of a submerged oscillating heat exchanger, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 45(4), 208, doi: <https://doi.org/10.1007/s40430-023-04079-z>.
- González-Santana, A., M. Oosterbaan, T. Clavelle, G. Maze, G. Notarstefano, N. Poffa, and P. Vélez-Belchí (2023), Analysis of the global shipping traffic for the feasibility of a structural recovery program of Argo floats, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1161580>.
- Good, S., B. Mills, T. Boyer, F. Bringas, G. Castelão, R. Cowley, G. Goni, V. Gouretski, and C. M. Domingues (2023), Benchmarking of automatic quality control checks for ocean temperature profiles and recommendations for optimal sets, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.1075510>.
- Green, H. L., H. S. Findlay, J. D. Shutler, R. Sims, R. Bellerby, and P. E. Land (2023), Observing Temporally Varying Synoptic-Scale Total Alkalinity and Dissolved Inorganic Carbon in the Arctic Ocean, *Earth and Space Science*, 10(12), e2023EA002901, doi: <https://doi.org/10.1029/2023EA002901>.
- Greenan, B., A. Wong, T. Morris, E. A. Smith, and M. Bollard (2023), Keeping an Eye on Earth's Oceans With Argo Robots, *Frontiers Young Minds*, 11, doi: <https://doi.org/10.3389/frym.2023.943491>.
- Grégoire, M., et al. (2023), Monitoring Black Sea environmental changes from space: New products for altimetry, ocean colour and salinity. Potentialities and requirements for a dedicated in-situ observing system, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.998970>.
- Grodsky, S. A., N. Reul, and D. Vandemark (2023), Sea surface salinity response to variations in the Aleutian Low, *J. Mar. Syst.*, 240, 103888, doi: <https://doi.org/10.1016/j.jmarsys.2023.103888>.
- Gruenburg, L. K., A. L. Gordon, and A. M. Thurnherr (2023), Indonesian Throughflow Partitioning between Leeuwin and South Equatorial Currents, *J. Phys. Oceanogr.*, 53(9), 2159-2170, doi: <https://doi.org/10.1175/JPO-D-22-0205.1>.
- Guan, C., F. Tian, M. J. McPhaden, S. Hu, and F. Wang (2023), Zonal Structure of Tropical Pacific Surface Salinity Anomalies Affects the Eastern and Central Pacific El Niños Differently, *Geophys. Res. Lett.*, 50(21), e2023GL105554, doi: <https://doi.org/10.1029/2023GL105554>.

- Gülk, B., F. Roquet, A. C. Naveira Garabato, A. Narayanan, C. Rousset, and G. Madec (2023), Variability and Remote Controls of the Warm-Water Halo and Taylor Cap at Maud Rise, *Journal of Geophysical Research: Oceans*, 128(7), e2022JC019517, doi: <https://doi.org/10.1029/2022JC019517>.
- Guo, Q., Y. Li, X. Zhang, Z. Ouyang, Z. Li, Y. Wang, L. Cao, L. Han, and D. Zhang (2023), An inversion method of subsurface thermohaline field based on deep learning and remote sensing data, *Int. J. Remote Sens.*, 1-24, doi: <https://doi.org/10.1080/01431161.2023.2192880>.
- Guo, Y., Y. Li, L. Cheng, G. Chen, Q. Liu, T. Tian, S. Hu, J. Wang, and F. Wang (2023), An Updated Estimate of the Indonesian Throughflow Geostrophic Transport: Interannual Variability and Salinity Effect, *Geophys. Res. Lett.*, 50(13), e2023GL103748, doi: <https://doi.org/10.1029/2023GL103748>.
- Habib, J., et al. (2023), Seasonal and interannual variability of the pelagic ecosystem and of the organic carbon budget in the Rhodes Gyre (eastern Mediterranean): influence of winter mixing, *Biogeosciences*, 20(15), 3203-3228, doi: <https://doi.org/10.5194/bg-20-3203-2023>.
- Hackert, E., S. Akella, L. Ren, K. Nakada, J. A. Carton, and A. Molod (2023), Impact of the TAO/TRITON Array on Reanalyses and Predictions of the 2015 El Niño, *Journal of Geophysical Research: Oceans*, 128(11), e2023JC020039, doi: <https://doi.org/10.1029/2023JC020039>.
- Hall, S. B., B. Subrahmanyam, and M. Steele (2023), The Role of the Russian Shelf in Seasonal and Interannual Variability of Arctic Sea Surface Salinity and Freshwater Content, *Journal of Geophysical Research: Oceans*, 128(1), e2022JC019247, doi: <https://doi.org/10.1029/2022JC019247>.
- Halo, I., R. P. Raj, A. Korosov, P. Penven, J. A. Johannessen, and M. Rouault (2023), Mesoscale Variability, Critical Latitude and Eddy Mean Properties in the Tropical South-East Atlantic Ocean, *Journal of Geophysical Research: Oceans*, 128(3), e2022JC019050, doi: <https://doi.org/10.1029/2022JC019050>.
- Han, X., J. Feng, Y. Lu, and D. Hu (2023), Variability of the Pacific subtropical cells under global warming in CMIP6 models, *Journal of Oceanology and Limnology*, doi: <https://doi.org/10.1007/s00343-023-2315-2>.
- Hao, J., J. Yang, and G. Chen (2023), The effect of normal and abnormal eddies on the mixed layer depth in the global ocean, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.981505>.
- Hao, S., L. Chen, X. Liu, K. Liu, and W. Peng (2023), Reinforcing the Effect of Warm Ocean Anomalies in the South China Sea on the Extended Tropical-Depression-Induced Heavy Rainfall Event in Hainan Island, *Atmosphere*, 14(7), 1137, doi: <https://doi.org/10.3390/atmos14071137>.
- Hauck, J., et al. (2023), The Southern Ocean Carbon Cycle 1985–2018: Mean, Seasonal Cycle, Trends, and Storage, *Glob. Biogeochem. Cycle*, 37(11), e2023GB007848, doi: <https://doi.org/10.1029/2023GB007848>.
- Hauck, J., C. Nissen, P. Landschützer, C. Rödenbeck, S. Bushinsky, and A. Olsen (2023), Sparse observations induce large biases in estimates of the global ocean CO₂ sink: an ocean model subsampling experiment, *Philosophical Transactions of the Royal*

- Society A: Mathematical, Physical and Engineering Sciences*, 381(2249), 20220063, doi: <https://doi.org/10.1098/rsta.2022.0063>.
- He, Q., D. J. McGillicuddy, X. Xing, S. Cai, W. Zhan, Y. He, J. Xu, and H. Zhan (2023), Subsurface phytoplankton responses to ocean eddies can run counter to satellite-based inference from surface properties in subtropical gyres, *Prog. Oceanogr.*, 218, 103118, doi: <https://doi.org/10.1016/j.pocean.2023.103118>.
- Himmich, K., M. Vancoppenolle, G. Madec, J.-B. Sallée, P. R. Holland, and M. Lebrun (2023), Drivers of Antarctic sea ice advance, *Nature Communications*, 14(1), 6219, doi: <https://doi.org/10.1038/s41467-023-41962-8>.
- Hirano, D., et al. (2023), On-shelf circulation of warm water toward the Totten Ice Shelf in East Antarctica, *Nature Communications*, 14(1), 4955, doi: <https://doi.org/10.1038/s41467-023-39764-z>.
- Hormann, V., L. R. Centurioni, and T. Paluszkiwicz (2023), Persistence of Cold Wedges in the Somali Current System, *Geophys. Res. Lett.*, 50(4), e2022GL101876, doi: <https://doi.org/10.1029/2022GL101876>.
- Hu, Y., X. Zhang, D. Li, W. Li, L. Zhang, H. Fu, and L. Zhang (2023), Anisotropic diffusion filters for flow-dependent variational data assimilation of sea surface temperature, *Ocean Model.*, 184, 102233, doi: <https://doi.org/10.1016/j.ocemod.2023.102233>.
- Huang, B., X. Yin, J. A. Carton, L. Chen, G. Graham, C. Liu, T. Smith, and H.-M. Zhang (2023), Understanding Differences in Sea Surface Temperature Intercomparisons, *J. Atmos. Ocean. Technol.*, 40(4), 455-473, doi: <https://doi.org/10.1175/JTECH-D-22-0081.1>.
- Huang, L., W. Zhuang, Z. Wu, Y. Zhang, L. Meng, D. Edwing, and X.-H. Yan (2023), Quasi-Decadal Temperature Variability in the Intermediate Layer of Subtropical South Indian Ocean During the Argo Period, *Journal of Geophysical Research: Oceans*, 128(8), e2023JC019775, doi: <https://doi.org/10.1029/2023JC019775>.
- Huang, Y., Andrea J. Fassbender, and Seth M. Bushinsky (2023), Biogenic carbon pool production maintains the Southern Ocean carbon sink, *Proceedings of the National Academy of Sciences*, 120(18), e2217909120, doi: <https://doi.org/10.1073/pnas.2217909120>.
- Iakovleva, D. A., I. L. Bashmachnikov, and D. A. Kuznetsova (2023), Impact of the Atlantic Meridional Overturning Circulation on the Upper Water Temperature of the North Atlantic and the Atlantic Sector of the Arctic Ocean, *Oceanology*, 63(2), 149-156, doi: <https://doi.org/10.1134/S0001437023020133>.
- Igeta, Y., et al. (2023), Effect of interannual variations of Kuroshio–Tsushima Warm Current system on the transportation of juvenile Japanese jack mackerel (*Trachurus japonicus*) to the Pacific coast of Japan, *Fish Oceanogr.*, 32(1), 133-146, doi: <https://doi.org/10.1111/fog.12622>.
- Inazu, D., Y. Ito, R. Hino, and W. Tanikawa (2023), Abrupt water temperature increases near seafloor during the 2011 Tohoku earthquake, *Prog. in Earth and Planet. Sci.*, 10(1), 24, doi: <https://doi.org/10.1186/s40645-023-00556-0>.
- Ismail, M. F. A., J. Karstensen, J. Ribbe, T. Arifin, H. Chandra, R. Akhwady, E. Yulihastin, A. Basit, and A. S. Budiman (2023), Seasonal mixed layer temperature and salt balances in the Banda Sea observed by an Argo float, *Geosci. Lett.*, 10(1), 10, doi: <https://doi.org/10.1186/s40562-023-00266-x>.

- Izett, J. G., J. P. Mattern, A. M. Moore, and C. A. Edwards (2023), Evaluating Alternate Methods of 4D-Var Data Assimilation in a Coupled Hydrodynamic—Four-Component Biogeochemical Model of the California Current System, *Ocean Model.*, 185, 102253, doi: <https://doi.org/10.1016/j.ocemod.2023.102253>.
- Jackson, L. C., and T. Petit (2023), North Atlantic overturning and water mass transformation in CMIP6 models, *Climate Dynamics*, 60(9), 2871-2891, doi: <https://doi.org/10.1007/s00382-022-06448-1>.
- Jarugula, S., and M. J. McPhaden (2023), Indian Ocean Dipole affects eastern tropical Atlantic salinity through Congo River Basin hydrology, *Communications Earth & Environment*, 4(1), 366, doi: <https://doi.org/10.1038/s43247-023-01027-6>.
- Jha, R. K., and T. V. S. U. Bhaskar (2023), Generation and Assessment of ARGO Sea Surface Temperature Climatology for the Indian Ocean Region, *Oceanologia*, 65(2), 343-357, doi: <https://doi.org/10.1016/j.oceano.2022.08.001>.
- Jia, W., J. Sun, W. Zhang, and H. Wang (2023), The Effect of Boreal Summer Intraseasonal Oscillation on Mixed Layer and Upper Ocean Temperature over the South China Sea, *Journal of Ocean University of China*, 22(2), 285-296, doi: <https://doi.org/10.1007/s11802-023-5008-8>.
- Jiang, Y., Y. Wang, X. Tian, S. Lin, S. Chen, J. Yu, and F. Chai (2023), Upper Ocean Structure Determines the Contrasting Typhoon-Induced Chlorophyll-a Responses in the Northwest Pacific, *Geophys. Res. Lett.*, 50(10), e2023GL102930, doi: <https://doi.org/10.1029/2023GL102930>.
- Jiménez-Rincón, J. A., A. Cianca, C. Ferrero-Martín, and A. Izquierdo (2023), A Glider View of the Spreading and Mixing Processes of Antarctic Intermediate Water in the Northeastern Subtropical Atlantic, *Journal of Marine Science and Engineering*, 11(3), 576, doi: <https://doi.org/10.3390/jmse11030576>.
- Jing, W., Y. Luo, Y. Wang, L. Xu, and D. Wu (2023), Changes of upper-ocean temperature in the Southeast Indian Subantarctic Mode Water formation region since the 1950s, *Climate Dynamics*, 61, 2503-2519, doi: <https://doi.org/10.1007/s00382-023-06692-z>.
- Joh, Y., T. L. Delworth, A. T. Wittenberg, X. Yang, A. Rosati, N. C. Johnson, and L. Jia (2023), The role of upper-ocean variations of the Kuroshio-Oyashio Extension in seasonal-to-decadal air-sea heat flux variability, *npj Climate and Atmospheric Science*, 6(1), 123, doi: <https://doi.org/10.1038/s41612-023-00453-9>.
- John, E. B., K. Balaguru, L. R. Leung, G. R. Foltz, R. D. Hetland, and S. M. Hagos (2023), Intensification of Hurricane Sally (2020) over the Mississippi River Plume, *Weather and Forecasting*, 38(8), 1391-1404, doi: <https://doi.org/10.1175/WAF-D-22-0191.1>.
- Johnson, G. C., and A. J. Fassbender (2023), After two decades, Argo at PMEL, looks to the future, *Oceanography*, 36(2/3), 54-59, doi: <https://doi.org/10.5670/oceanog.2023.223>.
- Johnson, G. C., and B. A. King (2023), Zapiola Gyre, Velocities and Mixing, New Argo Insights, *Journal of Geophysical Research: Oceans*, 128(6), e2023JC019893, doi: <https://doi.org/10.1029/2023JC019893>.
- Johnson, G. C., F. W. Landerer, N. G. Loeb, J. M. Lyman, M. Mayer, A. L. S. Swann, and J. Zhang (2023), Closure of Earth's Global Seasonal Cycle of Energy Storage, *Surveys in*

- Geophysics*, doi: <https://doi.org/10.1007/s10712-023-09797-6>.
- Johnson, G. C., et al. (2023), Global Oceans, *Bull. Amer. Meteorol. Soc.*, *104*(9), S146-S206, doi: <https://doi.org/10.1175/BAMS-D-23-0076.2>.
- Johnson, G. C., et al. (2023), Ocean heat content. In State of the Climate in 2023, Global Oceans, *Bull. Amer. Meteorol. Soc.*, *104*(9), S159-S162, doi: <https://doi.org/10.1175/BAMS-D-23-0076.2>.
- Johnson, G. C., J. Reagan, J. Lyman, T. Boyer, C. Schmid, and R. Locarnini (2023), Salinity. In State of the Climate in 2023, Global Oceans, *Bull. Amer. Meteorol. Soc.*, *104*(9), S146-S206, doi: <https://doi.org/10.1175/BAMS-D-23-0076.2>.
- Johnson, L., et al. (2023), Assessment of Oceanographic Conditions during the North Atlantic EXport Processes in the Ocean from RemoTe Sensing (EXPORTS) Field Campaign, *Prog. Oceanogr.*, *103*170, doi: <https://doi.org/10.1016/j.pocean.2023.103170>.
- Jones, S. C., N. J. Fraser, S. A. Cunningham, A. D. Fox, and M. E. Inall (2023), Observation-based estimates of volume, heat, and freshwater exchanges between the subpolar North Atlantic interior, its boundary currents, and the atmosphere, *Ocean Sci.*, *19*(1), 169-192, doi: <https://doi.org/10.5194/os-19-169-2023>.
- Jutras, M., C. O. Dufour, A. Mucci, and L. C. Talbot (2023), Large-scale control of the retroflection of the Labrador Current, *Nature Communications*, *14*(1), 2623, doi: <https://doi.org/10.1038/s41467-023-38321-y>.
- Kankaanpää, H. T., P. Alenius, P. Kotilainen, and P. Roiha (2023), Decreased surface and bottom salinity and elevated bottom temperature in the Northern Baltic Sea over the past six decades, *Science of The Total Environment*, *859*, 160241, doi: <https://doi.org/10.1016/j.scitotenv.2022.160241>.
- Kataoka, T., T. Suzuki, and H. Tatebe (2023), Rainfall–Mixed Layer–SST Feedback Contributing to Atlantic Meridional Mode Development, *J. Clim.*, *36*(3), 899-915, doi: <https://doi.org/10.1175/JCLI-D-21-1010.1>.
- Katsumata, K., and K. Yamazaki (2023), Diapycnal and isopycnal mixing along the continental rise in the Australian–Antarctic Basin, *Prog. Oceanogr.*, *211*, 102979, doi: <https://doi.org/10.1016/j.pocean.2023.102979>.
- Katsura, S., J. Sprintall, S. Kido, Y. Tanimoto, and M. Nonaka (2023), Classification of Interannual Surface Layer Salinity Variability, *Geophys. Res. Lett.*, *50*(8), e2022GL102261, doi: <https://doi.org/10.1029/2022GL102261>.
- Kawai, Y., A. Nagano, T. Hasegawa, H. Tomita, and M. Tani (2023), Decadal changes in the basin-wide heat budget of the mid-latitude North Pacific Ocean, *J. Oceanogr.*, *79*, 91-108, doi: <https://doi.org/10.1007/s10872-022-00667-0>.
- Keller, M. R., C. Piatko, M. V. Clemens-Sewall, R. Eager, K. Foster, C. Gifford, D. Rollend, and J. Sleeman (2023), Short-Term (7 Day) Beaufort Sea Ice Extent Forecasting with Deep Learning, *Artificial Intelligence for the Earth Systems*, *2*(4), e220070, doi: <https://doi.org/10.1175/AIES-D-22-0070.1>.
- Keppler, L., P. Landschützer, S. K. Lauvset, and N. Gruber (2023), Recent Trends and Variability in the Oceanic Storage of Dissolved Inorganic Carbon, *Glob. Biogeochem. Cycle*, *37*(5), e2022GB007677, doi: <https://doi.org/10.1029/2022GB007677>.
- Kido, S., S. Katsura, M. Nonaka, and Y. Tanimoto (2023), Mechanism and impact of zonally

- contrasting seasonal variations in sea-surface salinity in the North Pacific and North Atlantic oceans, *Prog. Oceanogr.*, 219, 103124, doi: <https://doi.org/10.1016/j.pocean.2023.103124>.
- Kido, S., M. Nonaka, and Y. Miyazawa (2023), Skillful Multiyear Prediction of the Kuroshio and Gulf Stream Jets and Eddy Activity, *Geophys. Res. Lett.*, 50(15), e2023GL103705, doi: <https://doi.org/10.1029/2023GL103705>.
- Kim, H.-J., S.-I. An, J.-H. Park, M.-K. Sung, D. Kim, Y. Choi, and J.-S. Kim (2023), North Atlantic Oscillation impact on the Atlantic Meridional Overturning Circulation shaped by the mean state, *npj Climate and Atmospheric Science*, 6(1), 25, doi: <https://doi.org/10.1038/s41612-023-00354-x>.
- Kim, M.-H., D.-W. Kim, D. Kim, F. Li, and Y.-H. Jo (2023), Estimation of deep-water formation intensity using multi-satellite measurements in the East Sea (Japan sea), *Deep Sea Research Part I: Oceanographic Research Papers*, 194, 103969, doi: <https://doi.org/10.1016/j.dsr.2023.103969>.
- Kim, M.-S., B. H. Kwon, T.-Y. Goo, and S.-P. Jung (2023), Dropsonde-Based Heat Fluxes and Mixed Layer Height over the Sea Surface near the Korean Peninsula, *Remote Sensing*, 15(1), doi: <https://doi.org/10.3390/rs15010025>.
- Kim, Y., S. Brodnitz, O. Chkrebti, and F. M. Bingham (2023), Evaluation of Seasonality in Sea Surface Salinity Balance Equation via Function Registration, *Data Science in Science*, 2(1), 2231061, doi: <https://doi.org/10.1080/26941899.2023.2231061>.
- Kim, Y. J., D. Han, E. Jang, J. Im, and T. Sung (2023), Remote sensing of sea surface salinity: challenges and research directions, *GIScience & Remote Sensing*, 60(1), 2166377, doi: <https://doi.org/10.1080/15481603.2023.2166377>.
- Kobashi, F., N. Usui, N. Akimoto, N. Iwasaka, T. Suga, and E. Oka (2023), Influence of North Pacific subtropical mode water variability on the surface mixed layer through the heaving of the upper thermocline on decadal timescales, *J. Oceanogr.*, 79(4), 379-394, doi: <https://doi.org/10.1007/s10872-022-00677-y>.
- Kobayashi, T. (2023), Changes in Antarctic bottom water off the Wilkes Land coast in the Australian-Antarctic Basin, *Deep Sea Research Part I: Oceanographic Research Papers*, 195, 104040, doi: <https://doi.org/10.1016/j.dsr.2023.104040>.
- Konda, G., V. S. Gulakaram, and N. K. Vissa (2023), Intraseasonal variability of subsurface ocean temperature anomalies in the Indian Ocean during the summer monsoon season, *Ocean Dyn.*, 73, 165-179, doi: <https://doi.org/10.1007/s10236-023-01547-x>.
- Kuang, Z., Y. Song, J. Wu, Q. Fu, Q. Shu, F. Qiao, and Z. Song (2023), A Hybrid ENSO Prediction System Based on the FIO−CPS and XGBoost Algorithm, *Remote Sensing*, 15(7), 1728, doi: <https://doi.org/10.3390/rs15071728>.
- Kubin, E., M. Menna, E. Mauri, G. Notarstefano, S. Mieruch, and P.-M. Poulain (2023), Heat content and temperature trends in the Mediterranean Sea as derived from Argo float data, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1271638>.
- Kuhlbrodt, T., A. Voltaire, M. D. Palmer, O. Geoffroy, and R. E. Killick (2023), Historical Ocean Heat Uptake in Two Pairs of CMIP6 Models: Global and Regional Perspectives, *Journal of Climate*, 36(7), 2183-2203, doi: <https://doi.org/10.1175/JCLI-D-22-0468.1>.
- Kumar, P., A. S. Dinesh, A. K. Mishra, L. K. Pandey, D. V. Sein, and V. Ryabchenko (2023),

- Marine heatwaves intensification, expansion and departure into the permanent state over the Tropical Indian Ocean: a Regional Earth System Model assessment, *Dynamics of Atmospheres and Oceans*, 101408, doi: <https://doi.org/10.1016/j.dynatmoce.2023.101408>.
- Kumar, V., D. Sumangala, and H. Warrior (2023), Salinity data curation using CMIP6 projections and artificial neural network for the Bay of Bengal, *ISH Journal of Hydraulic Engineering*, 1-10, doi: <https://doi.org/10.1080/09715010.2023.2291796>.
- Lacour, L., J. Llort, N. Briggs, P. G. Strutton, and P. W. Boyd (2023), Seasonality of downward carbon export in the Pacific Southern Ocean revealed by multi-year robotic observations, *Nature Communications*, 14(1), 1278, doi: <https://doi.org/10.1038/s41467-023-36954-7>.
- Land, P. E., H. S. Findlay, J. D. Shutler, J. F. Piolle, R. Sims, H. Green, V. Kitidis, A. Polukhin, and I. I. Pipko (2023), OceanSODA-MDB: a standardised surface ocean carbonate system dataset for model–data intercomparisons, *Earth Syst. Sci. Data*, 15(2), 921–947, doi: <https://doi.org/10.5194/essd-15-921-2023>.
- Larrañaga, M., P. Osuna, B. Esquivel–Trava, F. J. Ocampo–Torres, N. Rasclé, H. García–Nava, and A. Moulin (2023), Comparing GlobCurrent dataset with numerical results from a high-resolution implementation of the POLCOMS-WAM coupled system under a strong gap wind over the Gulf of Tehuantepec, *Meteorology and Atmospheric Physics*, 135(3), 29, doi: <https://doi.org/10.1007/s00703-023-00967-0>.
- Le Bras, I. A.-A., J. Willis, and I. Fenty (2023), The Atlantic Meridional Overturning Circulation at 35°N From Deep Moorings, Floats, and Satellite Altimeter, *Geophys. Res. Lett.*, 50(10), e2022GL101931, doi: <https://doi.org/10.1029/2022GL101931>.
- Lee, S., M. S. Park, M. Kwon, Y. G. Park, Y. H. Kim, and N. Choi (2023), Rapidly Changing East Asian Marine Heatwaves Under a Warming Climate, *Journal of Geophysical Research: Oceans*, 128(6), e2023JC019761, doi: <https://doi.org/10.1029/2023JC019761>.
- Lee, S.-K., R. Lumpkin, F. Gomez, S. Yeager, H. Lopez, F. Takglis, S. Dong, W. Aguiar, D. Kim, and M. Baringer (2023), Human-induced changes in the global meridional overturning circulation are emerging from the Southern Ocean, *Communications Earth & Environment*, 4(1), 69, doi: <https://doi.org/10.1038/s43247-023-00727-3>.
- Lévy, M., D. Couespel, C. Haëck, M. G. Keerthi, I. Mangolte, and C. J. Prend (2023), The Impact of Fine-Scale Currents on Biogeochemical Cycles in a Changing Ocean, *Annual Review of Marine Science*, doi: <https://doi.org/10.1146/annurev-marine-020723-020531>.
- L'Hegaret, P., et al. (2023), Ocean cross-validated observations from R/Vs L'Atalante, Maria S. Merian, and Meteor and related platforms as part of the EUREC4A-OA/ATOMIC campaign, *Earth Syst. Sci. Data*, 15(4), 1801–1830, doi: <https://doi.org/10.5194/essd-15-1801-2023>.
- Li, D., D. Folini, and M. Wild (2023), Assessment of Top of Atmosphere, Atmospheric and Surface Energy Budgets in CMIP6 Models on Regional Scales, *Earth and Space Science*, 10(4), e2022EA002758, doi: <https://doi.org/10.1029/2022EA002758>.
- Li, H., F. Xu, G. Wang, and R. Shi (2023), Numerical studies of the tilting of mesoscale eddies: The effects of rotation and stratification, *Deep Sea Research Part I: Oceanographic Research Papers*, 191, 103945, doi: <https://doi.org/10.1016/j.dsr.2022.103945>.

- Li, M., Y. He, and G. Liu (2023), Atmospheric and oceanic responses to Super Typhoon Mangkhut in the South China Sea: a coupled CROCO-WRF simulation, *Journal of Oceanology and Limnology*, 41(4), 1369-1388, doi: <https://doi.org/10.1007/s00343-022-1328-6>.
- Li, M., C. Pang, X. Yan, L. Zhang, and Z. Liu (2023), Energetics of Multiscale Interactions in the Agulhas Retroflection Current System, *J. Phys. Oceanogr.*, 53(2), 457-476, doi: <https://doi.org/10.1175/JPO-D-21-0275.1>.
- Li, X., Z.-Z. Hu, Y. Liu, P. Liang, and B. Jha (2023), Causes and Predictions of 2022 Extremely Hot Summer in East Asia, *Journal of Geophysical Research: Atmospheres*, 128(13), e2022JD038442, doi: <https://doi.org/10.1029/2022JD038442>.
- Li, Z., M. H. England, and S. Groeskamp (2023), Recent acceleration in global ocean heat accumulation by mode and intermediate waters, *Nature Communications*, 14(1), 6888, doi: <https://doi.org/10.1038/s41467-023-42468-z>.
- Li, Z., E. J. Thompson, A. Behrangi, H. Chen, and J. Yang (2023), Performance of GPCP Daily Products Over Oceans: Evaluation Using Passive Aquatic Listeners, *Geophys. Res. Lett.*, 50(11), e2023GL104310, doi: <https://doi.org/10.1029/2023GL104310>.
- Liao, F., X. H. Wang, and E. Fredj (2023), Forecasting marine debris spill accumulation patterns in the south-eastern Australia water: an intercomparison between global ocean forecast models, *Ocean Dyn.*, 73(2), 91-106, doi: <https://doi.org/10.1007/s10236-023-01539-x>.
- Lin, H., S. Xu, Z. Liu, J. Hu, F. Zhang, and Z. Cao (2023), Scale-Dependent Temperature-Salinity Compensation in Frontal Regions of the Taiwan Strait, *Journal of Geophysical Research: Oceans*, 128(2), e2022JC019134, doi: <https://doi.org/10.1029/2022JC019134>.
- Lin, S., and J. Sheng (2023), Interactions between Surface Waves, Tides, and Storm-Induced Currents over Shelf Waters of the Northwest Atlantic, *Journal of Marine Science and Engineering*, 11(3), 555, doi: <https://doi.org/10.3390/jmse11030555>.
- Lin, X., Y. Qiu, X. Ni, W. Lin, and C. Aung (2023), Three-Dimensional Climatological Structures of the Arabian Sea Eddies and Eddy-Induced Flux, *Journal of Ocean University of China*, 22(4), 874-885, doi: <https://doi.org/10.1007/s11802-023-5634-1>.
- Lin, X., Y. Qiu, J. Wang, H. Teng, X. Ni, and K. Liang (2023), Seasonal Diversity of El Niño-Induced Marine Heatwave Increases in the Bay of Bengal, *Geophys. Res. Lett.*, 50(3), e2022GL100807, doi: <https://doi.org/10.1029/2022GL100807>.
- Lin, Y., Q. Yang, Q. Shi, Y. Nakayama, and D. Chen (2023), A Volume-Conserved Approach to Estimating Sea-Ice Production in Antarctic Polynyas, *Geophys. Res. Lett.*, 50(4), e2022GL101859, doi: <https://doi.org/10.1029/2022GL101859>.
- Linford, P., et al. (2023), Recent Deoxygenation of Patagonian Fjord Subsurface Waters Connected to the Peru–Chile Undercurrent and Equatorial Subsurface Water Variability, *Glob. Biogeochem. Cycle*, 37(6), e2022GB007688, doi: <https://doi.org/10.1029/2022GB007688>.
- Liu, B., Q. Su, H. Wang, G. Yang, Y. Fang, Y. Duan, and Y. Zu (2023), An Intrathermocline Eddy Observed in the Southeastern Tropical Indian Ocean, *Geophys. Res. Lett.*, 50(22), e2023GL104462, doi: <https://doi.org/10.1029/2023GL104462>.
- Liu, J., R. G. J. Bellerby, Q. Zhu, and J. Ge (2023), Estimating Sea Surface Salinity in the East

- China Sea Using Satellite Remote Sensing and Machine Learning, *Earth and Space Science*, 10(11), e2023EA003230, doi: <https://doi.org/10.1029/2023EA003230>.
- Liu, J., B. Han, and R. Wu (2023), Numerical simulation of upper ocean responses to Typhoon Maria (2018) in the Northwest Pacific: Behavior of sub-mesoscale processes, *Deep Sea Research Part I: Oceanographic Research Papers*, 201, 104164, doi: <https://doi.org/10.1016/j.dsr.2023.104164>.
- Liu, J., K. Liu, W. Guo, P. Liang, and L. Da (2023), Optimal initial errors related to the prediction of the vertical thermal structure and their application to targeted observation: A 3-day hindcast case study in the northern South China Sea, *Deep Sea Research Part I: Oceanographic Research Papers*, 200, 104146, doi: <https://doi.org/10.1016/j.dsr.2023.104146>.
- Liu, J., D. Wang, T. Zu, K. Huang, and O. Y. W. Zhang (2023), Either IOD leading or ENSO leading triggers extreme thermohaline events in the central tropical Indian Ocean, *Climate Dynamics*, 60, 2113-2129, doi: <https://doi.org/10.1007/s00382-022-06413-y>.
- Liu, J., H. Zhang, X. Ding, L. Zhou, Z. Ke, J. Li, and Y. Tan (2023), Nitrogen fixation under the interaction of Kuroshio and upwelling in the northeastern South China Sea, *Deep Sea Research Part I: Oceanographic Research Papers*, 200, 104147, doi: <https://doi.org/10.1016/j.dsr.2023.104147>.
- Liu, L., X. Yu, H. Xue, and P. Xiu (2023), Reconstructability of Open-Ocean Upper-Layer Dynamics From Surface Observations Using Surface Quasigeostrophy (SQG) Theory, *Journal of Geophysical Research: Oceans*, 128(12), e2023JC020124, doi: <https://doi.org/10.1029/2023JC020124>.
- Liu, S., X. Jing, X. Chen, and H. Wang (2023), An assessment of the subduction rate in the CMIP6 historical experiment, *Acta Oceanol. Sin.*, 42(1), 44-60, doi: <https://doi.org/10.1007/s13131-022-2108-z>.
- Liu, T., and R. Abernathy (2023), A global Lagrangian eddy dataset based on satellite altimetry, *Earth Syst. Sci. Data*, 15(4), 1765-1778, doi: <https://doi.org/10.5194/essd-15-1765-2023>.
- Liu, X., A. Köhl, and D. Stammer (2023), Causes for Atlantic Freshwater Content Variability in the GECCO3 Ocean Synthesis, *Journal of Geophysical Research: Oceans*, 128(1), e2022JC018796, doi: <https://doi.org/10.1029/2022JC018796>.
- Liu, Y., Y. Chen, Z. Meng, and W. Chen (2023), Performance of single empirical orthogonal function regression method in global sound speed profile inversion and sound field prediction, *Applied Ocean Research*, 136, 103598, doi: <https://doi.org/10.1016/j.apor.2023.103598>.
- Liu, Y., K. Duffy, J. G. Dy, and A. R. Ganguly (2023), Explainable deep learning for insights in El Niño and river flows, *Nature Communications*, 14(1), 339, doi: <https://doi.org/10.1038/s41467-023-35968-5>.
- Liu, Y., and X. Li (2023), Impact of surface and subsurface-intensified eddies on sea surface temperature and chlorophyll a in the northern Indian Ocean utilizing deep learning, *Ocean Sci.*, 19(6), 1579-1593, doi: <https://doi.org/10.5194/os-19-1579-2023>.
- Liu, Y., J. Meng, J. Wang, G. Han, X. Lin, J. Chen, and Q. Ji (2023), Analysis of Seasonal and Long-Term Variations in the Surface and Vertical Structures of the Lofoten Vortex, *Remote Sensing*, 15(7), 1903, doi: <https://doi.org/10.3390/rs15071903>.

- Liu, Y., et al. (2023), Observed Taylor cap around a seamount intensified by a surface mesoscale eddy in the Northwest Pacific, *Climate Dynamics*, 61(1), 849-859, doi: <https://doi.org/10.1007/s00382-022-06570-0>.
- Liu, Y., Q. Zheng, and X. Li (2023), Detection and Analysis of Mesoscale Eddies Based on Deep Learning, in *Artificial Intelligence Oceanography*, edited by X. Li and F. Wang, pp. 209-225, Springer Nature Singapore, Singapore, doi: https://doi.org/10.1007/978-981-19-6375-9_10.
- Liu, Z., and G. Liao (2023), Relationship between global ocean mixing and coherent mesoscale eddies, *Deep Sea Research Part I: Oceanographic Research Papers*, 197, 104067, doi: <https://doi.org/10.1016/j.dsr.2023.104067>.
- Liu, Z.-H., et al. (2023), Twenty years of ocean observations with China Argo, *Acta Oceanol. Sin.*, doi: <http://dx.doi.org/10.1007/s13131-022-2076-3>.
- Llovel, W., K. Balem, S. Tajouri, and A. Hochet (2023), Cause of Substantial Global Mean Sea Level Rise Over 2014–2016, *Geophys. Res. Lett.*, 50(19), e2023GL104709, doi: <https://doi.org/10.1029/2023GL104709>.
- Lobashev, A. A., N. A. Turko, K. V. Ushakov, M. N. Kaurkin, and R. A. Ibrayev (2023), Concrete Autoencoder for the Reconstruction of Sea Temperature Field from Sparse Measurements, *Journal of Marine Science and Engineering*, 11(2), doi: <https://doi.org/10.3390/jmse11020404>.
- Lombard, F., et al. (2023), Open science resources from the Tara Pacific expedition across coral reef and surface ocean ecosystems, *Scientific Data*, 10(1), 324, doi: <https://doi.org/10.1038/s41597-022-01757-w>.
- Lops, Y., Y. Choi, S. Mousavinezhad, A. K. Salman, D. L. Nelson, and D. Singh (2023), Development of Deep Convolutional Neural Network Ensemble Models for 36-Month ENSO Forecasts, *Asia-Pacific Journal of Atmospheric Sciences*, doi: <https://doi.org/10.1007/s13143-023-00319-3>.
- Lovecchio, E., L. Clément, C. Evans, R. Rayne, C. Dumousseaud, S. Roshan, S. L. C. Giering, and A. Martin (2023), Export of Dissolved Organic Carbon (DOC) compared to the particulate and active fluxes near South Georgia, Southern Ocean, *Deep Sea Research Part II: Topical Studies in Oceanography*, 212, 105338, doi: <https://doi.org/10.1016/j.dsr2.2023.105338>.
- Lu, L., et al. (2023), An Improved Coupled Data Assimilation System with a CGCM Using Multi-Time-Scale High-Efficiency EnOI-Like Filtering, *J. Clim.*, 36(17), 6045-6067, doi: <https://doi.org/10.1175/JCLI-D-22-0558.1>.
- Lu, W., and H. Su (2023), Ocean Heat Content Retrieval from Remote Sensing Data Based on Machine Learning, in *Artificial Intelligence Oceanography*, edited by X. Li and F. Wang, pp. 125-145, Springer Nature Singapore, Singapore, doi: https://doi.org/10.1007/978-981-19-6375-9_6.
- Lu, W., C. Zhou, W. Zhao, C. Zhang, T. Geng, and X. Xiao (2023), Comparing the Contributions of Temperature and Salinity Changes to the AMOC Decline at 26.5°N, *J. Phys. Oceanogr.*, 53(4), 1107-1122, doi: <https://doi.org/10.1175/JPO-D-22-0087.1>.
- Lu, Z., G. Wang, and X. Shang (2023), Observable Large-Scale Impacts of Tropical Cyclones on the Subtropical Gyre, *J. Phys. Oceanogr.*, 53(9), 2189-2209, doi: <https://doi.org/10.1175/JPO-D-22-0230.1>.

- Lv, M., F. Wang, and Y. Li (2023), Eddy-Induced Subsurface Spiciness Anomalies in the Kuroshio Extension Region, *J. Phys. Oceanogr.*, 53(12), 2893-2912, doi: <https://doi.org/10.1175/JPO-D-22-0254.1>.
- Lyman, J. M., and G. C. Johnson (2023), Global High-Resolution Random Forest Regression Maps of Ocean Heat Content Anomalies Using In Situ and Satellite Data, *J. Atmos. Ocean. Technol.*, 40(5), 575-586, doi: <https://doi.org/10.1175/JTECH-D-22-0058.1>.
- Ma, J., Z. Zhang, S. Hu, C. Villanoy, X. Guo, F. Wang, and D. Hu (2023), Observed interannual variability of the Kuroshio and Luzon Undercurrent associated with tropical and subtropical wind forcing, *Prog. Oceanogr.*, 219, 103146, doi: <https://doi.org/10.1016/j.pocean.2023.103146>.
- Ma, X., G. Huang, X. Li, and S. Li (2023), The potential mechanisms of the dominant timescale of AMOC multidecadal variability in CMIP6/CMIP5 preindustrial simulations, *Climate Dynamics*, 60, 2131-2145, doi: <https://doi.org/10.1007/s00382-022-06440-9>.
- Maneesha, K., S. Ratheesh, and T. V. S. U. Bhaskar (2023), Impact of the Upper Ocean Processes on Intensification of Cyclone Amphan, *Journal of the Indian Society of Remote Sensing*, 51(2), 289-298, doi: <https://doi.org/10.1007/s12524-022-01592-x>.
- Manizza, M., D. Carroll, D. Menemenlis, H. Zhang, and C. E. Miller (2023), Modeling the Recent Changes of Phytoplankton Blooms Dynamics in the Arctic Ocean, *Journal of Geophysical Research: Oceans*, 128(6), e2022JC019152, doi: <https://doi.org/10.1029/2022JC019152>.
- Mansor, K. N. A. A. K., N. H. Roseli, P. H. Kok, F. S. M. Ali, and M. F. M. Akhir (2023), Identification of thermal front dynamics in the northern Malacca Strait using ROMS 3D-model, *Journal of Oceanology and Limnology*, doi: <https://doi.org/10.1007/s00343-023-2263-x>.
- Mao, S., R. He, J. Bane, G. Gawarkiewicz, and R. E. Todd (2023), A data-assimilative modeling investigation of Gulf Stream variability, *Deep Sea Research Part II: Topical Studies in Oceanography*, 211, 105319, doi: <https://doi.org/10.1016/j.dsr2.2023.105319>.
- Markova, N. V. (2023), The Black Sea Deep-Water Circulation: Recent Findings and Prospects for Research, in *Processes in GeoMedia—Volume VI*, edited by T. Chaplina, pp. 553-564, Springer International Publishing, Cham, doi: https://doi.org/10.1007/978-3-031-16575-7_49.
- Markova, N. V., and O. A. Dymova (2023), Conditions of Deep-Water Undercurrent Generation in the North-Eastern Black Sea, *Fluid Dynamics*, 58(5), 852-863, doi: <https://doi.org/10.1134/S0015462823600591>.
- Marshall, T. A., et al. (2023), The Agulhas Current Transports Signals of Local and Remote Indian Ocean Nitrogen Cycling, *Journal of Geophysical Research: Oceans*, 128(3), e2022JC019413, doi: <https://doi.org/10.1029/2022JC019413>.
- Masuda, S., M. Kobayashi, L. A. Icochea Salas, and G. M. Rosales Quintana (2023), Possible link between temperatures in the seashore and open ocean waters of Peru identified by using new seashore water data, *Prog. in Earth and Planet. Sci.*, 10(1), 38, doi: <https://doi.org/10.1186/s40645-023-00571-1>.
- Mazloff, M. R., A. Verdy, S. T. Gille, K. S. Johnson, B. D. Cornuelle, and J. Sarmiento (2023), Southern Ocean Acidification Revealed by Biogeochemical-Argo Floats, *Journal of*

- Geophysical Research: Oceans*, 128(5), e2022JC019530, doi:
<https://doi.org/10.1029/2022JC019530>.
- McCarthy, G. D., S. Plecha, G. Charria, A. Simon, C. Poppeschi, and A. Russo (2023), The marine heatwave west of Ireland in June 2023, *Weather*, 78(11), 321-323, doi:
<https://doi.org/10.1002/wea.4498>.
- McClish, S., and S. M. Bushinsky (2023), Majority of Southern Ocean Seasonal Sea Ice Zone Bloom Net Community Production Precedes Total Ice Retreat, *Geophys. Res. Lett.*, 50(20), e2023GL103459, doi: <https://doi.org/10.1029/2023GL103459>.
- McClure, M. M., C. L. Sabine, R. A. Feely, S. R. Hammond, C. Meinig, M. J. McPhaden, P. J. Stabeno, and E. Bernard (2023), THE HISTORY AND EVOLUTION OF PMEL PURPOSEFUL RESEARCH THAT IMPACTS ENVIRONMENTAL POLICY, *Oceanography*, 36(2/3), 10-25, doi: <https://doi.org/10.5670/oceanog.2023.235>.
- McKee, D. C., S. C. Doney, A. Della Penna, E. S. Boss, P. Gaube, and M. J. Behrenfeld (2023), Biophysical Dynamics at Ocean Fronts Revealed by Bio-Argo Floats, *Journal of Geophysical Research: Oceans*, 128(3), e2022JC019226, doi:
<https://doi.org/10.1029/2022JC019226>.
- Menezes, V. V. (2023), Interannual variability of red sea overflow water pathways in the Western Arabian Sea in an eddy rich reanalysis, *Deep Sea Research Part II: Topical Studies in Oceanography*, 209, 105289, doi:
<https://doi.org/10.1016/j.dsr2.2023.105289>.
- Menna, M., R. Martellucci, M. Reale, G. Cossarini, S. Salon, G. Notarstefano, E. Mauri, P.-M. Poulain, A. Gallo, and C. Solidoro (2023), A case study of impacts of an extreme weather system on the Mediterranean Sea circulation features: Medicane Apollo (2021), *Scientific Reports*, 13(1), 3870, doi:
<https://doi.org/10.1038/s41598-023-29942-w>.
- Mensah, V., and K. I. Ohshima (2023), A Mapping Methodology Adapted to all Polar and Subpolar Oceans with a Stretching/Shrinking Constraint, *J. Atmos. Ocean. Technol.*, 40(10), 1241-1261, doi: <https://doi.org/10.1175/JTECH-D-22-0143.1>.
- Merryfield, W. J., and W.-S. Lee (2023), Estimating Probabilities of Extreme ENSO Events from Copernicus Seasonal Hindcasts, *Asia-Pacific Journal of Atmospheric Sciences*, 59, 479-493, doi: <https://doi.org/10.1007/s13143-023-00328-2>.
- Meysignac, B., et al. (2023), How accurate is accurate enough for measuring sea-level rise and variability, *Nature Climate Change*, 13(8), 796-803, doi:
<https://doi.org/10.1038/s41558-023-01735-z>.
- Meysignac, B., J. Chenal, N. Loeb, R. Guillaume-Castel, and A. Ribes (2023), Time-variations of the climate feedback parameter λ are associated with the Pacific Decadal Oscillation, *Communications Earth & Environment*, 4(1), 241, doi:
<https://doi.org/10.1038/s43247-023-00887-2>.
- Miao, M., Z. Zhang, J. Zhang, Y. Wang, W. Zhao, and J. Tian (2023), Steric heights of submesoscale processes and internal gravity waves in the subtropical northwestern Pacific and northern South China Sea as revealed by moored observations, *Prog. Oceanogr.*, 219, 103158, doi: <https://doi.org/10.1016/j.pocean.2023.103158>.
- Miao, X., L. Liu, H. Miao, Z. Yang, J. Wang, and Q. Zhang (2023), Timeliness of Correcting Baseline Error in Wide-Swath Altimeter Based on Reference Topography Data,

- Remote Sensing*, 15(10), doi: <https://doi.org/10.3390/rs15102482>.
- Mignot, A., et al. (2023), Using machine learning and Biogeochemical-Argo (BGC-Argo) floats to assess biogeochemical models and optimize observing system design, *Biogeosciences*, 20(7), 1405-1422, doi: <https://doi.org/10.5194/bg-20-1405-2023>.
- Minière, A., K. von Schuckmann, J.-B. Sallée, and L. Vogt (2023), Robust acceleration of Earth system heating observed over the past six decades, *Scientific Reports*, 13(1), 22975, doi: <https://doi.org/10.1038/s41598-023-49353-1>.
- Miyamoto, A., H. Nakamura, S.-P. Xie, T. Miyasaka, and Y. Kosaka (2023), Radiative Impacts of Californian Marine Low Clouds on North Pacific Climate in a Global Climate Model, *J. Clim.*, 36(24), 8443-8459, doi: <https://journals.ametsoc.org/view/journals/clim/36/24/JCLI-D-23-0153.1.xml>.
- Mo, A., K. Park, J. Park, D. Hahm, K. Kim, Y. H. Ko, J. L. Iriarte, J.-O. Choi, and T.-W. Kim (2023), Assessment of austral autumn air-sea CO₂ exchange in the Pacific sector of the Southern Ocean and dominant controlling factors, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1192959>.
- Mogen, S. C., et al. (2023), Skillful Multi-Month Predictions of Ecosystem Stressors in the Surface and Subsurface Ocean, *Earth's Future*, 11(11), e2023EF003605, doi: <https://doi.org/10.1029/2023EF003605>.
- Mogollón, R., A. Pietri, J. Tam, and F. Colas (2023), Comprehensive characterization of Marine Heatwaves in a coastal Northern Humboldt Current System regional model over recent decades, *Ocean Model.*, 186, 102280, doi: <https://doi.org/10.1016/j.ocemod.2023.102280>.
- Mohanty, S., V. S. Bhadoriya, and P. Chauhan (2023), Upper Ocean Response to The Passage of Cyclone Tauktae in The Eastern Arabian Sea Using In Situ and Multi-Platform Satellite Data, *Journal of the Indian Society of Remote Sensing*, 51(2), 307-320, doi: <https://doi.org/10.1007/s12524-022-01621-9>.
- Mohanty, S., M. Swain, R. Nadimpalli, K. K. Osuri, U. C. Mohanty, P. Patel, and D. Niyogi (2023), Meteorological Conditions of Extreme Heavy Rains over Coastal City Mumbai, *Journal of Applied Meteorology and Climatology*, 62(2), 191-208, doi: <https://doi.org/10.1175/JAMC-D-21-0223.1>.
- Momin, I. M., A. K. Mitra, J. Waters, M. J. Martin, D. Lea, and R. Bhatla (2023), Evaluation of global ocean analysis and forecast system in the Tropical Indian Ocean, *Journal of Earth System Science*, 132(3), 104, doi: <https://doi.org/10.1007/s12040-023-02118-w>.
- Montie, S., F. Thorat, R. O. Smith, F. Cook, L. W. Tait, M. H. Pinkerton, D. R. Schiel, and M. S. Thomsen (2023), Seasonal trends in marine heatwaves highlight vulnerable coastal ecoregions and historic change points in New Zealand, *New Zealand Journal of Marine and Freshwater Research*, 1-26, doi: <https://doi.org/10.1080/00288330.2023.2218102>.
- Moore, A. M., H. G. Arango, J. Wilkin, and C. A. Edwards (2023), Weak constraint 4D-Var data assimilation in the Regional Ocean Modeling System (ROMS) using a saddle-point algorithm: Application to the California Current Circulation, *Ocean Model.*, 186, 102262, doi: <https://doi.org/10.1016/j.ocemod.2023.102262>.
- Moreau, S., et al. (2023), Wind-driven upwelling of iron sustains dense blooms and food webs in the eastern Weddell Gyre, *Nature Communications*, 14(1), 1303, doi: <https://doi.org/10.1038/s41467-023-44444-4>.

- <https://doi.org/10.1038/s41467-023-36992-1>.
- Morrow, R., L.-L. Fu, M.-H. Rio, R. Ray, P. Prandi, P.-Y. Le Traon, and J. Benveniste (2023), Ocean Circulation from Space, *Surveys in Geophysics*, *4*, 1243-1286, doi: <https://doi.org/10.1007/s10712-023-09778-9>.
- Mourre, B., et al. (2023), Chapter 10 - Mediterranean observing and forecasting systems, in *Oceanography of the Mediterranean Sea*, edited by K. Schroeder and J. Chiggiato, pp. 335-386, Elsevier, doi: <https://doi.org/10.1016/B978-0-12-823692-5.00001-7>.
- Munandar, B., A. Wirasatriya, D. N. Sugianto, R. D. Susanto, A. Purwandana, and Kunarso (2023), Distinct mechanisms of chlorophyll-a blooms occur in the Northern Maluku Sea and Sulu Sill revealed by satellite data, *Dynamics of Atmospheres and Oceans*, *102*, 101360, doi: <https://doi.org/10.1016/j.dynatmoce.2023.101360>.
- Munk, P., B. Buongiorno Nardelli, P. Mariani, and J. Bendtsen (2023), Mesoscale-driven dispersion of early life stages of European eel, *Frontiers in Marine Science*, *10*, doi: <https://doi.org/10.3389/fmars.2023.1163125>.
- Nadhairi, R. A., A. N. Hassan, A. Abdelsattar, G. Bruss, and S. A. Akhazami (2023), Ocean responses to Shaheen, the first cyclone to hit the north coast of Oman in 2021, *Dynamics of Atmospheres and Oceans*, *102*, 101358, doi: <https://doi.org/10.1016/j.dynatmoce.2023.101358>.
- Nagura, M., and M. J. McPhaden (2023), Dual-Frequency Wind-Driven Mixed Rossby–Gravity Waves in the Equatorial Indian Ocean, *J. Phys. Oceanogr.*, *53*(6), 1535-1553, doi: <https://doi.org/10.1175/JPO-D-22-0222.1>.
- Narayanan, A., S. T. Gille, M. R. Mazloff, M. D. du Plessis, K. Murali, and F. Roquet (2023), Zonal Distribution of Circumpolar Deep Water Transformation Rates and Its Relation to Heat Content on Antarctic Shelves, *Journal of Geophysical Research: Oceans*, *128*(6), e2022JC019310, doi: <https://doi.org/10.1029/2022JC019310>.
- Neale, P. J., C. E. Williamson, A. T. Banaszak, D. P. Häder, S. Hylander, R. Ossola, K. C. Rose, S. Å. Wängberg, and R. Zepp (2023), The response of aquatic ecosystems to the interactive effects of stratospheric ozone depletion, UV radiation, and climate change, *Photochemical & Photobiological Sciences*, *22*(5), 1093-1127, doi: <https://doi.org/10.1007/s43630-023-00370-z>.
- Neukermans, G., L. T. Bach, A. Butterley, Q. Sun, H. Claustre, and G. R. Fournier (2023), Quantitative and mechanistic understanding of the open ocean carbonate pump - perspectives for remote sensing and autonomous in situ observation, *Earth-Science Reviews*, *239*, 104359, doi: <https://doi.org/10.1016/j.earscirev.2023.104359>.
- Ni, Q., X. Zhai, J. H. LaCasce, D. Chen, and D. P. Marshall (2023), Full-Depth Eddy Kinetic Energy in the Global Ocean Estimated From Altimeter and Argo Observations, *Geophys. Res. Lett.*, *50*(15), e2023GL103114, doi: <https://doi.org/10.1029/2023GL103114>.
- Ni, Q., X. Zhai, Z. Yang, and D. Chen (2023), Generation of Cold Anticyclonic Eddies and Warm Cyclonic Eddies in the Tropical Oceans, *J. Phys. Oceanogr.*, *53*(6), 1485-1498, doi: <https://doi.org/10.1175/JPO-D-22-0197.1>.
- Nickerson, A. K., R. H. Weisberg, L. Zheng, and Y. Liu (2023), Sea surface temperature trends for Tampa Bay, West Florida Shelf and the deep Gulf of Mexico, *Deep Sea Research Part II: Topical Studies in Oceanography*, *211*, 105321, doi:

- <https://doi.org/10.1016/j.dsr2.2023.105321>.
- Niebergall, A. K., et al. (2023), Evaluation of new and net community production estimates by multiple ship-based and autonomous observations in the Northeast Pacific Ocean, *Elementa: Science of the Anthropocene*, 11(1), 00107, doi: <https://doi.org/10.1525/elementa.2021.00107>.
- Nielsen-Englyst, P., J. L. Høyer, W. M. Kolbe, G. Dybkjær, T. Lavergne, R. T. Tonboe, S. Skarpalezos, and I. Karagali (2023), A combined sea and sea-ice surface temperature climate dataset of the Arctic, 1982–2021, *Remote Sens. Environ.*, 284, 113331, doi: <https://doi.org/10.1016/j.rse.2022.113331>.
- Nishikawa, H., E. Oka, and S. Sugimoto (2023), Subtropical Mode Water in a recent persisting Kuroshio large-meander period: part II—formation and temporal evolution in the Kuroshio recirculation gyre off Shikoku, *J. Oceanogr.*, doi: <https://doi.org/10.1007/s10872-023-00689-2>.
- Oguejiofor, C. N., C. E. Wainwright, J. E. Rudzin, and D. H. Richter (2023), Onset of Tropical Cyclone Rapid Intensification: Evaluating the Response to Length Scales of Sea Surface Temperature Anomalies, *Journal of the Atmospheric Sciences*, 80(8), 1971–1994, doi: <https://doi.org/10.1175/JAS-D-22-0158.1>.
- Ohishi, S., T. Miyoshi, and M. Kachi (2023), LORA: a local ensemble transform Kalman filter-based ocean research analysis, *Ocean Dyn.*, doi: <https://doi.org/10.1007/s10236-023-01541-3>.
- Oka, E., S. Sugimoto, F. Kobashi, H. Nishikawa, S. Kanada, T. Nasuno, R. Kawamura, and M. Nonaka (2023), Subtropical Mode Water south of Japan impacts typhoon intensity, *Science Advances*, 9(37), eadi2793, doi: <https://doi.org/10.1126/sciadv.adi2793>.
- Olbers, D., F. Pollmann, A. Patel, and C. Eden (2023), A Model of Energy and Spectral Shape for the Internal Gravity Wave Field in the Deep Sea: The Parametric IDEMIX Model, *J. Phys. Oceanogr.*, 53(5), 1337–1354, doi: <https://doi.org/10.1175/JPO-D-22-0147.1>.
- Olivé Abelló, A., J. L. Pelegrí, and F. Machín (2023), A Simple Method for Estimating Horizontal Diffusivity, *J. Atmos. Ocean. Technol.*, 40(6), 739–752, doi: <https://doi.org/10.1175/JTECH-D-22-0097.1>.
- Oliver, H., D. J. McGillicuddy Jr, K. M. Krumhardt, M. C. Long, N. R. Bates, B. C. Bowler, D. T. Drapeau, and W. M. Balch (2023), Environmental Drivers of Coccolithophore Growth in the Pacific Sector of the Southern Ocean, *Glob. Biogeochem. Cycle*, 37(11), e2023GB007751, doi: <https://doi.org/10.1029/2023GB007751>.
- Orúe-Echevarría, D., K. L. Polzin, A. C. Naveira Garabato, A. Forryan, and J. L. Pelegrí (2023), Mixing and Overturning Across the Brazil-Malvinas Confluence, *Journal of Geophysical Research: Oceans*, 128(5), e2022JC018730, doi: <https://doi.org/10.1029/2022JC018730>.
- Ouyang, Y., Y. Zhang, J. Chi, Q. Sun, and Y. Du (2023), Deviations of satellite-measured sea surface salinity caused by environmental factors and their regional dependence, *Remote Sens. Environ.*, 285, 113411, doi: <https://doi.org/10.1016/j.rse.2022.113411>.
- Oyabu, R., I. Yasuda, and Y. Sasaki (2023), Large-Scale Distribution and Variations of Active Salt-Finger Double-Diffusion in the Western North Pacific, *J. Phys. Oceanogr.*, 53(8), 2013–2027, doi: <https://doi.org/10.1175/JPO-D-22-0244.1>.
- Pacini, A., and R. S. Pickart (2023), Wind-Forced Upwelling Along the West Greenland

- Shelfbreak: Implications for Labrador Sea Water Formation, *Journal of Geophysical Research: Oceans*, 128(3), e2022JC018952, doi: <https://doi.org/10.1029/2022JC018952>.
- Paladini de Mendoza, F., K. Schroeder, S. Miserocchi, M. Borghini, P. Giordano, J. Chiggiato, F. Trincardi, A. Amorosi, and L. Langone (2023), Sediment resuspension and transport processes during dense water cascading events along the continental margin of the southern Adriatic Sea (Mediterranean Sea), *Marine Geology*, 459, 107030, doi: <https://doi.org/10.1016/j.margeo.2023.107030>.
- Pan, T., X. He, Y. Bai, T. Li, F. Gong, and D. Wang (2023), Satellite retrieval of the linear polarization components of the water-leaving radiance in open oceans, *Opt. Express*, 31(10), 15917-15939, doi: <https://doi.org/10.1364/OE.489680>.
- Pan, X. L., X. Lai, R. Makabe, D. Hirano, and Y. W. Watanabe (2023), Spatiotemporal high-resolution mapping of biological production in the Southern Ocean, *Communications Earth & Environment*, 4(1), 488, doi: <https://doi.org/10.1038/s43247-023-01067-y>.
- Pan, Y., et al. (2023), Annual Cycle in Upper-Ocean Heat Content and the Global Energy Budget, *J. Clim.*, 36(15), 5003-5026, doi: <https://doi.org/10.1175/JCLI-D-22-0776.1>.
- Pandey, L. K., S. Dwivedi, and A. K. Mishra (2023), Diagnosing the upper ocean variability in the Northern Bay of Bengal during the super cyclone Phailin using a high-resolution regional ocean model, *Theoretical and Applied Climatology*, 151(1), 169-182, doi: <https://doi.org/10.1007/s00704-022-04275-2>.
- Paoa, N., C. H. Fletcher, T. R. Anderson, M. Coffman, and S. Habel (2023), Probabilistic sea level rise flood projections using a localized ocean reference surface, *Scientific Reports*, 13(1), 2257, doi: <https://doi.org/10.1038/s41598-023-29297-2>.
- Park, B., M. Kuusela, D. Giglio, and A. Gray (2023), Spatiotemporal local interpolation of global ocean heat transport using Argo floats: A debiased latent Gaussian process approach, *The Annals of Applied Statistics*, 17(2), 1491-1520, doi: <https://doi.org/10.1214/22-AOAS1679>.
- Park, K.-A., J.-J. Park, and W. Tang (2023), Oceanic response to typhoons in the Northwest Pacific using Aquarius and SMAP data (2011–2020), *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.1037029>.
- Patrizio, C. R., P. J. Athanasiadis, C. Frankignoul, D. Iovino, S. Masina, L. Famoos Paolini, and S. Gualdi (2023), Improved Extratropical North Atlantic Atmosphere–Ocean Variability with Increasing Ocean Model Resolution, *J. Clim.*, 36(24), 8403-8424, doi: <https://doi.org/10.1175/JCLI-D-23-0230.1>.
- Peng, Y., et al. (2023), Observed oceanic response to Tropical Cyclone Amphan (2020) from a subsurface mooring in the Bay of Bengal, *Prog. Oceanogr.*, 219, 103148, doi: <https://doi.org/10.1016/j.pocean.2023.103148>.
- Perez, R. C., G. R. Foltz, R. Lumpkin, J. Wei, K. J. Voss, M. Ondrusek, M. Wang, and M. A. Bourassa (2023), Chapter 5 - Oceanographic buoys: Providing ocean data to assess the accuracy of variables derived from satellite measurements, in *Field Measurements for Passive Environmental Remote Sensing*, edited by N. R. Nalli, pp. 79-100, Elsevier, doi: <https://doi.org/10.1016/B978-0-12-823953-7.00022-8>.
- Picado, A., N. Vaz, I. Alvarez, and J. M. Dias (2023), Modelling coastal upwelling off NW

- Iberian Peninsula: New insights on the fate of phytoplankton blooms, *Science of The Total Environment*, 874, 162416, doi:
<https://doi.org/10.1016/j.scitotenv.2023.162416>.
- Pietropoli, G., L. Manzoni, and G. Cossarini (2023), Multivariate Relationship in Big Data Collection of Ocean Observing System, *Applied Sciences*, 13(9), doi:
<https://doi.org/10.3390/app13095634>.
- Pirooznia, M., M. Raofian Naeeni, and M. J. Tourian (2023), Modeling total surface current in the Persian Gulf and the Oman Sea by combination of geodetic and hydrographic observations and assimilation with in situ current meter data, *Acta Geophysica*, 71, 2839-2863, doi: <https://doi.org/10.1007/s11600-022-00985-3>.
- Plant, J. N., C. M. Sakamoto, K. S. Johnson, T. L. Maurer, and M. B. Bif (2023), Updated temperature correction for computing seawater nitrate with in situ ultraviolet spectrophotometer and submersible ultraviolet nitrate analyzer nitrate sensors, *Limnology and Oceanography: Methods*, 21(10), 581-593, doi:
<https://doi.org/10.1002/lom3.10566>.
- Pohlmann, H., S. Brune, K. Fröhlich, J. H. Jungclaus, C. Sgoff, and J. Baehr (2023), Impact of ocean data assimilation on climate predictions with ICON-ESM, *Climate Dynamics*, 61(1), 357-373, doi: <https://doi.org/10.1007/s00382-022-06558-w>.
- Pollmann, F., and J. Nycander (2023), Resolving the Horizontal Direction of Internal Tide Generation: Global Application for the M2 Tide's First Mode, *J. Phys. Oceanogr.*, 53(5), 1251-1267, doi: <https://doi.org/10.1175/JPO-D-22-0144.1>.
- Pourkerman, M., N. Marriner, S. Amjadi, R. Lak, M. Hamzeh, G. Mohammadpor, H. Lahijani, M. Tavakoli, C. Morhange, and M. Shah-Hosseini (2023), The impacts of Persian Gulf water and ocean-atmosphere interactions on tropical cyclone intensification in the Arabian Sea, *Marine Pollution Bulletin*, 188, 114553, doi:
<https://doi.org/10.1016/j.marpolbul.2022.114553>.
- Prasanth, R., V. Vijith, and P. N. Vinayachandran (2023), Formation, maintenance and diurnal variability of subsurface chlorophyll maximum during the summer monsoon in the southern Bay of Bengal, *Prog. Oceanogr.*, 212, 102974, doi:
<https://doi.org/10.1016/j.pocean.2023.102974>.
- Purich, A., and E. W. Doddridge (2023), Record low Antarctic sea ice coverage indicates a new sea ice state, *Communications Earth & Environment*, 4(1), 314, doi:
<https://doi.org/10.1038/s43247-023-00961-9>.
- Qi, J., B. Xie, D. Li, J. Chi, B. Yin, and G. Sun (2023), Estimating thermohaline structures in the tropical Indian Ocean from surface parameters using an improved CNN model, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1181182>.
- Qi, J., L. Zhang, B. Yin, D. Li, B. Xie, and G. Sun (2023), Advancing ocean subsurface thermal structure estimation in the Pacific Ocean: A multi-model ensemble machine learning approach, *Dynamics of Atmospheres and Oceans*, 104, 101403, doi:
<https://doi.org/10.1016/j.dynatmoce.2023.101403>.
- Qin, Y., H. Liu, R. Yin, M. Dong, and L. Zhang (2023), Node localization without underwater anchors for underwater acoustic sensor networks, *Sādhanā*, 48(3), 99, doi:
<https://doi.org/10.1007/s12046-023-02166-4>.
- Qin, Y., Y. Sun, H. Liu, R. Yin, M. Dong, and L. Zhang (2023), Joint time synchronization and

- localization of underwater mobile node, *Wireless Networks*, 29(8), 3737-3746, doi: <https://doi.org/10.1007/s11276-023-03441-2>.
- Qin, Y., Q. Yu, L. Wan, Y. Liu, H. Mo, Y. Wang, S. Meng, X. Wu, D. Sui, and J. Xie (2023), A Global-Ocean-Data Assimilation for Operational Oceanography, *Journal of Marine Science and Engineering*, 11(12), doi: <https://doi.org/10.3390/jmse11122255>.
- Qu, T., and O. Melnichenko (2023), Steric Changes Associated With the Fast Sea Level Rise in the Upper South Indian Ocean, *Geophys. Res. Lett.*, 50(4), e2022GL100635, doi: <https://doi.org/10.1029/2022GL100635>.
- Quarty, G. D., J. Aiken, R. J. W. Brewin, and A. Yool (2023), The link between surface and sub-surface chlorophyll-a in the centre of the Atlantic subtropical gyres: a comparison of observations and models, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1197753>.
- Quay, P. (2023), Organic Matter Export Rates and the Pathways of Nutrient Supply in the Ocean, *Glob. Biogeochem. Cycle*, 37(8), e2023GB007855, doi: <https://doi.org/10.1029/2023GB007855>.
- Rahaman, H., L. Kantha, M. J. Harrison, V. Jampana, T. M. B. Nair, and M. Ravichandran (2023), Impact of initial and lateral open boundary conditions in a Regional Indian Ocean Model on Bay of Bengal circulation, *Ocean Model.*, 184, 102205, doi: <https://doi.org/10.1016/j.ocemod.2023.102205>.
- Ratheesh, S., N. Agarwal, and R. Sharma (2023), An observing system experiment framework for the tropical Indian Ocean salinity: A case study using a constellation of three satellites, *Deep Sea Research Part II: Topical Studies in Oceanography*, 212, 105345, doi: <https://doi.org/10.1016/j.dsr2.2023.105345>.
- Reeve, K. A., T. Kanzow, O. Boebel, M. Vredenburg, V. Strass, and R. Gerdes (2023), The Weddell Gyre heat budget associated with the Warm Deep Water circulation derived from Argo floats, *Ocean Sci.*, 19(4), 1083-1106, doi: <https://doi.org/10.5194/os-19-1083-2023>.
- Ren, A. S., D. L. Rudnick, and A. Twombly (2023), Drift Characteristics of Sea-Bird Dissolved Oxygen Optode Sensors, *J. Atmos. Ocean. Technol.*, 40(12), 1645-1656, doi: <https://doi.org/10.1175/JTECH-D-22-0103.1>.
- Renfrew, I. A., et al. (2023), Coupled atmosphere–ocean observations of a cold-air outbreak and its impact on the Iceland Sea, *Q. J. R. Meteorol. Soc.*, 149(751), 472-493, doi: <https://doi.org/10.1002/qj.4418>.
- Renosh, P. R., J. Zhang, R. Sauzède, and H. Claustre (2023), Vertically Resolved Global Ocean Light Models Using Machine Learning, *Remote Sensing*, 15(24), doi: <https://doi.org/10.3390/rs15245663>.
- Resnyanskii, Y. D., V. N. Stepanov, B. S. Strukov, and A. A. Zelenko (2023), Sensitivity of Ocean Circulation Modeling Results to the Choice of Atmospheric Forcing Data Source and Grid Resolution, *Russian Meteorology and Hydrology*, 48(3), 189-200, doi: <https://doi.org/10.3103/S1068373923030019>.
- Rickard, G. J., E. Behrens, A. A. Bahamondes Dominguez, and M. H. Pinkerton (2023), An Assessment of the Oceanic Physical and Biogeochemical Components of CMIP5 and CMIP6 Models for the Ross Sea Region, *Journal of Geophysical Research: Oceans*, 128(3), e2022JC018880, doi: <https://doi.org/10.1029/2022JC018880>.

- Rickard, G. J., E. Behrens, S. Chiswell, C. S. Law, and M. H. Pinkerton (2023), Biogeochemical and Physical Assessment of CMIP5 and CMIP6 Ocean Components for the Southwest Pacific Ocean, *Journal of Geophysical Research: Biogeosciences*, 128(5), e2022JG007123, doi: <https://doi.org/10.1029/2022JG007123>.
- Roach, L. A., K. D. Mankoff, A. Romanou, E. Blanchard-Wrigglesworth, T. W. N. Haine, and G. A. Schmidt (2023), Winds and Meltwater Together Lead to Southern Ocean Surface Cooling and Sea Ice Expansion, *Geophys. Res. Lett.*, 50(24), e2023GL105948, doi: <https://doi.org/10.1029/2023GL105948>.
- Roch, M., P. Brandt, and S. Schmidtko (2023), Recent large-scale mixed layer and vertical stratification maxima changes, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1277316>.
- Rodgers, K. B., et al. (2023), Seasonal Variability of the Surface Ocean Carbon Cycle: A Synthesis, *Glob. Biogeochem. Cycle*, 37(9), e2023GB007798, doi: <https://doi.org/10.1029/2023GB007798>.
- Rousselet, L., P. Cessi, and M. R. Mazloff (2023), What Controls the Partition between the Cold and Warm Routes in the Meridional Overturning Circulation?, *J. Phys. Oceanogr.*, 53(1), 215-233, doi: <https://doi.org/10.1175/JPO-D-21-0308.1>.
- Russell, P., and C. Horvat (2023), Extreme South Pacific Phytoplankton Blooms Induced by Tropical Cyclones, *Geophys. Res. Lett.*, 50(5), e2022GL100821, doi: <https://doi.org/10.1029/2022GL100821>.
- Ryan, C., M. Santangelo, B. Stephenson, T. A. Branch, E. A. Wilson, and M. S. Savoca (2023), Commercial krill fishing within a foraging supergroup of fin whales in the Southern Ocean, *Ecology*, 104(4), e4002, doi: <https://doi.org/10.1002/ecy.4002>.
- Ryan-Keogh, T. J., S. J. Thomalla, P. M. S. Monteiro, and A. Tagliabue (2023), Multidecadal trend of increasing iron stress in Southern Ocean phytoplankton, *Science*, 379(6634), 834-840, doi: <https://doi.org/10.1126/science.abl5237>.
- Rykova, T. (2023), Improving forecasts of individual ocean eddies using feature mapping, *Scientific Reports*, 13(1), 6216, doi: <https://doi.org/10.1038/s41598-023-33465-9>.
- Sánchez-Pérez, E. D., E. D. Ruvalcaba-Aroche, L. Sánchez-Velasco, E. D. Barton, and E. Beier (2023), Distribution of water masses in the tropical-subtropical convergence off Mexico, using an autonomous profiler (2017–2021), *Cont. Shelf Res.*, 263, 105024, doi: <https://doi.org/10.1016/j.csr.2023.105024>.
- Sanders, R. N. C., A. J. S. Meijers, P. R. Holland, and A. C. Naveira Garabato (2023), Sea Ice-Driven Variability in the Pacific Subantarctic Mode Water Formation Regions, *Journal of Geophysical Research: Oceans*, 128(12), e2023JC020006, doi: <https://doi.org/10.1029/2023JC020006>.
- Sane, A., B. G. Reichl, A. Adcroft, and L. Zanna (2023), Parameterizing Vertical Mixing Coefficients in the Ocean Surface Boundary Layer Using Neural Networks, *Journal of Advances in Modeling Earth Systems*, 15(10), e2023MS003890, doi: <https://doi.org/10.1029/2023MS003890>.
- Sanikommu, S., S. Langodan, H. P. Dasari, P. Zhan, G. Krokos, Y. O. Abualnaja, K. Asfahani, and I. Hoteit (2023), Making the Case for High-Resolution Regional Ocean Reanalyses: An Example with the Red Sea, *Bull. Amer. Meteorol. Soc.*, 104(7), E1241-E1264, doi: <https://doi.org/10.1175/BAMS-D-21-0287.1>.

- Santana, R., H. Macdonald, J. O'Callaghan, B. Powell, S. Wakes, and S. H. Suanda (2023), Data assimilation sensitivity experiments in the East Auckland Current system using 4D-Var, *Geosci. Model Dev.*, 16(13), 3675-3698, doi: <https://doi.org/10.5194/gmd-16-3675-2023>.
- Sarmiento, J. L., et al. (2023), The Southern Ocean carbon and climate observations and modeling (SOCCOM) project: A review, *Prog. Oceanogr.*, 219, 103130, doi: <https://www.sciencedirect.com/science/article/pii/S0079661123001738>.
- Sauvé, J., A. R. Gray, C. J. Prend, S. M. Bushinsky, and S. C. Riser (2023), Carbon Outgassing in the Antarctic Circumpolar Current Is Supported by Ekman Transport From the Sea Ice Zone in an Observation-Based Seasonal Mixed-Layer Budget, *Journal of Geophysical Research: Oceans*, 128(11), e2023JC019815, doi: <https://doi.org/10.1029/2023JC019815>.
- Sayol, J. M., M. Marcos, D. Garcia-Garcia, and I. Vigo (2023), Seasonal and interannual variability of Mediterranean Sea overturning circulation, *Deep Sea Research Part I: Oceanographic Research Papers*, 198, 104081, doi: <https://doi.org/10.1016/j.dsr.2023.104081>.
- Scales, K. L., T. S. Moore li, B. Sloyan, C. M. Spillman, J. P. Eveson, T. A. Patterson, A. J. Williams, A. J. Hobday, and J. R. Hartog (2023), Forecast-ready models to support fisheries' adaptation to global variability and change, *Fish Oceanogr.*, 32(4), 405-417, doi: <https://doi.org/10.1111/fog.12636>.
- Schmidt, G. A., et al. (2023), CERESMIP: a climate modeling protocol to investigate recent trends in the Earth's Energy Imbalance, *Frontiers in Climate*, 5, doi: <https://doi.org/10.3389/fclim.2023.1202161>.
- Schwarzwalld, K., L. Goddard, R. Seager, M. Ting, and K. Marvel (2023), Understanding CMIP6 biases in the representation of the Greater Horn of Africa long and short rains, *Climate Dynamics*, 61, 1229-1255, doi: <https://doi.org/10.1007/s00382-022-06622-5>.
- Schwarzwalld, K., R. Seager, M. Ting, and A. Giannini (2023), Large-Scale Stability and the Greater Horn of Africa Long and Short Rains, *J. Clim.*, 36(20), 7297-7317, doi: <https://doi.org/10.1175/JCLI-D-23-0126.1>.
- Schwing, F. B. (2023), Modern technologies and integrated observing systems are "instrumental" to fisheries oceanography: A brief history of ocean data collection, *Fish Oceanogr.*, 32(1), 28-69, doi: <https://doi.org/10.1111/fog.12619>.
- Seijo-Ellis, G., D. Giglio, and H. Salmun (2023), Intrusions of Amazon River Waters in the Virgin Islands Basin During 2007–2017, *Journal of Geophysical Research: Oceans*, 128(3), e2022JC018709, doi: <https://doi.org/10.1029/2022JC018709>.
- Senjyu, T., and K. Shiota (2023), Revisit the Upper Portion of the Japan Sea Proper Water: A Recent Structural Change and Freshening in the Formation Area, *Journal of Geophysical Research: Oceans*, 128(1), e2022JC019094, doi: <https://doi.org/10.1029/2022JC019094>.
- Sérazin, G., A. M. Tréguier, and C. de Boyer Montégut (2023), A seasonal climatology of the upper ocean pycnocline, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1120112>.
- Serra-Pompei, C., A. Hickman, G. L. Britten, and S. Dutkiewicz (2023), Assessing the Potential of Backscattering as a Proxy for Phytoplankton Carbon Biomass, *Glob. Biogeochem.*

- Cycle*, 37(6), e2022GB007556, doi: <https://doi.org/10.1029/2022GB007556>.
- Shao, Q., Q. Shu, B. Xiao, L. Zhang, X. Yin, and F. Qiao (2023), Arctic Sea Ice Concentration Assimilation in an Operational Global 1/10° Ocean Forecast System, *Remote Sensing*, 15(5), 1274, doi: <https://doi.org/10.3390/rs15051274>.
- Shapiro, G. I., J. M. Gonzalez-Ondina, M. Salim, and J. Tu (2023), A Comparison of Stochastic and Deterministic Downscaling in Eddy Resolving Ocean Modelling: The Lakshadweep Sea Case Study, *Journal of Marine Science and Engineering*, 11(2), 363, doi: <https://doi.org/10.3390/jmse11020363>.
- Sharp, J. D., A. J. Fassbender, B. R. Carter, G. C. Johnson, C. Schultz, and J. P. Dunne (2023), GOBAI-O2: temporally and spatially resolved fields of ocean interior dissolved oxygen over nearly 2 decades, *Earth Syst. Sci. Data*, 15(10), 4481-4518, doi: <https://doi.org/10.5194/essd-15-4481-2023>.
- Shee, A., and S. Sil (2023), Estimations of vertical diffusivity and applications on a mixed layer budget analysis of the Bay of Bengal using Argo data, *J. Mar. Syst.*, 239, 103857, doi: <https://doi.org/10.1016/j.jmarsys.2023.103857>.
- Shee, A., S. Sil, and A. Gangopadhyay (2023), Recent changes in the upper oceanic water masses over the Indian Ocean using Argo data, *Scientific Reports*, 13(1), 20252, doi: <https://doi.org/10.1038/s41598-023-47658-9>.
- Shi, J.-R., Y.-O. Kwon, and S. E. Wijffels (2023), Subsurface Ocean Temperature Responses to the Anthropogenic Aerosol Forcing in the North Pacific, *Geophys. Res. Lett.*, 50(2), e2022GL101035, doi: <https://doi.org/10.1029/2022GL101035>.
- Shi, J.-R., S. E. Wijffels, Y.-O. Kwon, L. D. Talley, and S. T. Gille (2023), The competition between anthropogenic aerosol and greenhouse gas climate forcing is revealed by North Pacific water-mass changes, *Science Advances*, 9(38), eadh7746, doi: <https://doi.org/10.1126/sciadv.adh7746>.
- Shi, J.-R., S. E. Wijffels, Y.-O. Kwon, and S.-P. Xie (2023), Interhemispheric Contrasts of Ocean Heat Content Change Reveals Distinct Fingerprints of Anthropogenic Climate Forcings, *Geophys. Res. Lett.*, 50(16), e2023GL102741, doi: <https://doi.org/10.1029/2023GL102741>.
- Shi, Q., R.-H. Zhang, and F. Tian (2023), Impact of the Deep Chlorophyll Maximum in the Equatorial Pacific as Revealed in a Coupled Ocean GCM-Ecosystem Model, *Journal of Geophysical Research: Oceans*, 128(4), e2022JC018631, doi: <https://doi.org/10.1029/2022JC018631>.
- Siegel, D. A., T. DeVries, I. Cetinić, and K. M. Bisson (2023), Quantifying the Ocean's Biological Pump and Its Carbon Cycle Impacts on Global Scales, *Annual Review of Marine Science*, 15(1), 329-356, doi: <https://doi.org/10.1146/annurev-marine-040722-115226>.
- Siegel, D. A., T. DeVries, I. Cetinić, and K. M. Bisson (2023), Quantifying the Ocean's Biological Pump and Its Carbon Cycle Impacts on Global Scales, *Annual Review of Marine Science*, 15(1), 329-356, doi: <https://doi.org/10.1146/annurev-marine-040722-115226>.
- Silver, A., A. Gangopadhyay, G. Gawarkiewicz, P. Fratantoni, and J. Clark (2023), Increased gulf stream warm core ring formations contributes to an observed increase in salinity maximum intrusions on the Northeast Shelf, *Scientific Reports*, 13(1), 7538,

- doi: <https://doi.org/10.1038/s41598-023-34494-0>.
- Silvestrova, K., S. Myslenkov, O. Puzina, A. Mizyuk, and O. Bykhalova (2023), Water Structure in the Utrish Nature Reserve (Black Sea) during 2020–2021 According to Thermistor Chain Data, *Journal of Marine Science and Engineering*, 11(4), doi: <https://doi.org/10.3390/jmse11040887>.
- Smyth, A. J., and R. T. Letscher (2023), Spatial and temporal occurrence of preformed nitrate anomalies in the subtropical North Pacific and North Atlantic oceans, *Marine Chemistry*, 252, 104248, doi: <https://doi.org/10.1016/j.marchem.2023.104248>.
- Song, H., X.-H. Zhu, Z.-N. Zhu, J.-Y. Chae, C. Jeon, D.-G. Kim, H.-S. Min, J.-H. Lee, and J.-H. Park (2023), Seasonal Variability of the Deep Western Boundary Current in the Philippine Sea, *Journal of Marine Science and Engineering*, 11(7), doi: <https://doi.org/10.3390/jmse11071290>.
- Song, S.-Y., S.-W. Yeh, H. Kim, and N. J. Holbrook (2023), Arctic warming contributes to increase in Northeast Pacific marine heatwave days over the past decades, *Communications Earth & Environment*, 4(1), 25, doi: <https://doi.org/10.1038/s43247-023-00683-y>.
- Stevenson, S., K. M. Cobb, M. Merrifield, B. Powell, S. Sanchez, J. Nusbaumer, G. O'Connor, and A. Atwood (2023), Contrasting Central Equatorial Pacific Oxygen Isotopic Signatures of the 2014/2015 and 2015/2016 El Niño Events, *Geophys. Res. Lett.*, 50(21), e2023GL104454, doi: <https://doi.org/10.1029/2023GL104454>.
- Stoer, A. C., and K. Fennel (2023), Estimating ocean net primary productivity from daily cycles of carbon biomass measured by profiling floats, *Limnology and Oceanography Letters*, 8(2), 368-375, doi: <https://doi.org/10.1002/lol2.10295>.
- Stoer, A. C., et al. (2023), A census of quality-controlled Biogeochemical-Argo float measurements, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1233289>.
- Strutton, P. G., T. W. Trull, H. E. Phillips, E. R. Duran, and S. Pump (2023), Biogeochemical Argo Floats Reveal the Evolution of Subsurface Chlorophyll and Particulate Organic Carbon in Southeast Indian Ocean Eddies, *Journal of Geophysical Research: Oceans*, 128(4), e2022JC018984, doi: <https://doi.org/10.1029/2022JC018984>.
- Su, F., et al. (2023), Widespread global disparities between modelled and observed mid-depth ocean currents, *Nature Communications*, 14(1), 2089, doi: <https://doi.org/10.1038/s41467-023-37841-x>.
- Su, H., W. Lu, A. Wang, and T. Zhang (2023), AI-Based Subsurface Thermohaline Structure Retrieval from Remote Sensing Observations, in *Artificial Intelligence Oceanography*, edited by X. Li and F. Wang, pp. 105-123, Springer Nature Singapore, Singapore, doi: https://doi.org/10.1007/978-981-19-6375-9_5.
- Sun, D., Z. Jing, F. Li, and L. Wu (2023), Characterizing global marine heatwaves under a spatio-temporal framework, *Prog. Oceanogr.*, 211, 102947, doi: <https://doi.org/10.1016/j.pcean.2022.102947>.
- Sun, J., X. Ju, Q. Zheng, G. Wang, L. Li, and X. Xiong (2023), Numerical Study of the Response of Typhoon Hato (2017) to Grouped Mesoscale Eddies in the Northern South China Sea, *Journal of Geophysical Research: Atmospheres*, 128(3), e2022JD037266, doi: <https://doi.org/10.1029/2022JD037266>.

- Sun, M., P. Chen, Z. Zhang, C. Zhong, C. Xie, and D. Pan (2023), Evaluation of the CALIPSO Lidar-observed particulate backscattering coefficient on different spatiotemporal matchup scales, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1181268>.
- Sun, W., C. Sangmanee, Y. Jiang, Y. Ma, J. Li, and Y. Zhao (2023), Quality Analysis and Correction of Sea Surface Temperature Data from China HY-1C Satellite in Southeast Asia Seas, *Sensors*, 23(18), 7692, doi: <https://doi.org/10.3390/s23187692>.
- Sun, W., S. Zhou, J. Yang, X. Gao, J. Ji, and C. Dong (2023), Artificial Intelligence Forecasting of Marine Heatwaves in the South China Sea Using a Combined U-Net and ConvLSTM System, *Remote Sensing*, 15(16), 4068, doi: <https://doi.org/10.3390/rs15164068>.
- Sun, Z., et al. (2023), Mooring Measurements of Full-Depth Zonal Currents along the 143°E Meridian in the Northwestern Pacific Ocean, *J. Phys. Oceanogr.*, 53(10), 2491-2510, doi: <https://doi.org/10.1175/JPO-D-22-0210.1>.
- Svingen, K., A. Brakstad, K. Våge, W.-J. von Appen, and L. Papritz (2023), The Impact of Cold-Air Outbreaks and Oceanic Lateral Fluxes on Dense-Water Formation in the Greenland Sea from a 10-Year Moored Record (1999–2009), *J. Phys. Oceanogr.*, 53(6), 1499-1517, doi: <https://doi.org/10.1175/JPO-D-22-0160.1>.
- Takahashi, N., K. J. Richards, N. Schneider, M. F. Stuecker, H. Annamalai, and M. Nonaka (2023), Observed Relative Contributions of Anomalous Heat Fluxes and Effective Heat Capacity to Sea Surface Temperature Variability, *Geophys. Res. Lett.*, 50(17), e2023GL103165, doi: <https://doi.org/10.1029/2023GL103165>.
- Tan, Z., L. Cheng, V. Gouretski, B. Zhang, Y. Wang, F. Li, Z. Liu, and J. Zhu (2023), A new automatic quality control system for ocean profile observations and impact on ocean warming estimate, *Deep Sea Research Part I: Oceanographic Research Papers*, 194, 103961, doi: <https://doi.org/10.1016/j.dsr.2022.103961>.
- Taylor, B. A., G. A. MacGilchrist, M. R. Mazloff, and L. D. Talley (2023), Freshwater Displacement Effect on the Weddell Gyre Carbon Budget, *Geophys. Res. Lett.*, 50(18), e2023GL103952, doi: <https://doi.org/10.1029/2023GL103952>.
- Terrats, L., H. Claustre, N. Briggs, A. Poteau, B. Briat, L. Lacour, F. Ricour, A. Mangin, and G. Neukermans (2023), BioGeoChemical-Argo Floats Reveal Stark Latitudinal Gradient in the Southern Ocean Deep Carbon Flux Driven by Phytoplankton Community Composition, *Glob. Biogeochem. Cycle*, 37(11), e2022GB007624, doi: <https://doi.org/10.1029/2022GB007624>.
- Thandlam, V., H. Rahaman, A. Rutgersson, E. Sahlee, M. Ravichandran, and S. S. V. S. Ramakrishna (2023), Quantifying the role of antecedent Southwestern Indian Ocean capacitance on the summer monsoon rainfall variability over homogeneous regions of India, *Scientific Reports*, 13(1), 5553, doi: <https://doi.org/10.1038/s41598-023-32840-w>.
- Thomalla, S. J., et al. (2023), Southern Ocean phytoplankton dynamics and carbon export: insights from a seasonal cycle approach, *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 381(2249), 20220068, doi: <https://doi.org/10.1098/rsta.2022.0068>.
- Thomas, L., S. Abhilash, and V. Pattathil (2023), The unsung role of SST in simulating

- mesoscale events: an evaluation of August 2018 extreme rainfall over Kerala using WRF model, *Theoretical and Applied Climatology*, 151(1), 619-633, doi: <https://doi.org/10.1007/s00704-022-04308-w>.
- Thoppil, P. G. (2023), Enhanced phytoplankton bloom triggered by atmospheric high-pressure systems over the Northern Arabian Sea, *Scientific Reports*, 13(1), 769, doi: <https://doi.org/10.1038/s41598-023-27785-z>.
- Tian, F., and R.-H. Zhang (2023), Increasing Shortwave Penetration Through the Bottom of the Oceanic Mixed Layer in a Warmer Climate, *Journal of Geophysical Research: Oceans*, 128(7), e2022JC019587, doi: <https://doi.org/10.1029/2022JC019587>.
- Todd, R. E., and A. S. Ren (2023), Warming and lateral shift of the Gulf Stream from in situ observations since 2001, *Nature Climate Change*, doi: <https://doi.org/10.1038/s41558-023-01835-w>.
- Torres, R., R. Waldman, J. Mak, and R. Séférian (2023), Global Estimation of the Eddy Kinetic Energy Dissipation From a Diagnostic Energy Balance, *Geophys. Res. Lett.*, 50(20), e2023GL104688, doi: <https://doi.org/10.1029/2023GL104688>.
- Toyoda, T., et al. (2023), Improvement of sea ice thermodynamics with variable sea ice salinity and melt pond parameterizations in an OGCM, *Ocean Model.*, 102288, doi: <https://doi.org/10.1016/j.ocemod.2023.102288>.
- Turner, K. E., D. M. Smith, A. Katavouta, and R. G. Williams (2023), Reconstructing ocean carbon storage with CMIP6 Earth system models and synthetic Argo observations, *Biogeosciences*, 20(8), 1671-1690, doi: <https://doi.org/10.5194/bg-20-1671-2023>.
- Uitz, J., et al. (2023), Characterization of Bio-Optical Anomalies in the Kerguelen Region, Southern Indian Ocean: A Study Based on Shipborne Sampling and BioGeoChemical-Argo Profiling Floats, *Journal of Geophysical Research: Oceans*, 128(12), e2023JC019671, doi: <https://doi.org/10.1029/2023JC019671>.
- Vadakke-Chanat, S., and C. Jamet (2023), Validation protocol for the evaluation of space-borne lidar particulate back-scattering coefficient b_{bp}, *Frontiers in Remote Sensing*, 4, doi: <https://doi.org/10.3389/frsen.2023.1194580>.
- Vargas-Yáñez, M., E. Tel, M. Marcos, F. Moya, E. Ballesteros, C. Alonso, and M. C. García-Martínez (2023), Factors Contributing to the Long-Term Sea Level Trends in the Iberian Peninsula and the Balearic and Canary Islands, *Geosciences*, 13(6), doi: <https://doi.org/10.3390/geosciences13060160>.
- Vaz, A. C., M. Karnauskas, M. Smith, L. S. Denson, C. B. Paris, M. Le Hénaff, and K. Siegfried (2023), Red Snapper connectivity in the Gulf of Mexico, *Marine and Coastal Fisheries*, 15(6), e10275, doi: <https://doi.org/10.1002/mcf2.10275>.
- Vazquez, H. J., G. Gopalakrishnan, and J. Sheinbaum (2023), Impact of Yucatan Channel Subsurface Velocity Observations on the Gulf of Mexico State Estimates, *J. Phys. Oceanogr.*, 53(1), 361-385, doi: <https://doi.org/10.1175/JPO-D-21-0213.1>.
- Vecchioni, G., P. Cessi, N. Pinardi, L. Rousselet, and F. Trotta (2023), A Lagrangian Estimate of the Mediterranean Outflow's Origin, *Geophys. Res. Lett.*, 50(14), e2023GL103699, doi: <https://doi.org/10.1029/2023GL103699>.
- Verdy, A., M. R. Mazloff, B. D. Cornuelle, and A. C. Subramanian (2023), Balancing Volume, Temperature, and Salinity Budgets During 2014–2018 in the Tropical Pacific Ocean State Estimate, *Journal of Geophysical Research: Oceans*, 128(7), e2022JC019576, doi: <https://doi.org/10.1029/2022JC019576>.

- <https://doi.org/10.1029/2022JC019576>.
- Vilela-Silva, F., I. C. A. Silveira, D. C. Napolitano, P. W. M. Souza-Neto, T. C. Biló, and A. Gangopadhyay (2023), On the Deep Western Boundary Current Separation and Anticyclone Genesis off Northeast Brazil, *Journal of Geophysical Research: Oceans*, 128(1), e2022JC019168, doi: <https://doi.org/10.1029/2022JC019168>.
- Volkov, D. L., K. Zhang, W. E. Johns, J. K. Willis, W. Hobbs, M. Goes, H. Zhang, and D. Menemenlis (2023), Atlantic meridional overturning circulation increases flood risk along the United States southeast coast, *Nature Communications*, 14(1), 5095, doi: <https://doi.org/10.1038/s41467-023-40848-z>.
- von Schuckmann, K., et al. (2023), Heat stored in the Earth system 1960–2020: where does the energy go?, *Earth Syst. Sci. Data*, 15(4), 1675-1709, doi: <https://doi.org/10.5194/essd-15-1675-2023>.
- Wang, A., B. Huang, J. Yang, G. Chen, and M. Radenkovic (2023), SCMNet: Toward Subsurface Chlorophyll Maxima Prediction Using Embeddings and Bi-GRU Network, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 16, 9944-9950, doi: <https://doi.org/10.1109/JSTARS.2023.3325922>.
- Wang, B., and K. Fennel (2023), An Assessment of Vertical Carbon Flux Parameterizations Using Backscatter Data From BGC Argo, *Geophys. Res. Lett.*, 50(3), e2022GL101220, doi: <https://doi.org/10.1029/2022GL101220>.
- Wang, H., J. Li, J. Song, H. Leng, H. Wang, Z. Zhang, H. Zhang, M. Zheng, X. Yang, and C. Wang (2023), The abnormal track of super typhoon Hinnamnor (2022) and its interaction with the upper ocean, *Deep Sea Research Part I: Oceanographic Research Papers*, 201, 104160, doi: <https://doi.org/10.1016/j.dsr.2023.104160>.
- Wang, H., Z. You, H. Guo, W. Zhang, P. Xu, and K. Ren (2023), Quality Assessment of Sea Surface Salinity from Multiple Ocean Reanalysis Products, *Journal of Marine Science and Engineering*, 11(1), doi: <https://doi.org/10.3390/jmse11010054>.
- Wang, J., F. Wang, Y. Lu, H. Zhang, Q. Ma, L. J. Pratt, and Z. Zhang (2023), Abyssal Circulation From the Yap-Mariana Junction to the Northern Philippine Basin, *Geophys. Res. Lett.*, 50(6), e2022GL100610, doi: <https://doi.org/10.1029/2022GL100610>.
- Wang, J., H. Yin, X. Ji, and Y. Liang (2023), Performance Analysis of MIMO-mQAM System with Pointing Errors and Beam Spreading in Underwater M&#acute;laga Turbulence Channel, *Journal of Marine Science and Engineering*, 11(3), 633, doi: <https://doi.org/10.3390/jmse11030633>.
- Wang, Q., and X. Li (2023), Interannual variability and mechanism of ocean stratification over the Kuroshio Extension region in the warm season, *Climate Dynamics*, 61, 3481-3497, doi: <https://doi.org/10.1007/s00382-023-06753-3>.
- Wang, Q., J. Shi, J. Xia, K. Han, W. Xiao, W. Zhang, H. Wang, and J. Lv (2023), Influence of Wave-Induced Radiation Stress on Upper-Layer Ocean Temperature during Typhoons, *Remote Sensing*, 15(9), doi: <https://doi.org/10.3390/rs15092442>.
- Wang, T., S. Zhang, F. Chen, and L. Xiao (2023), The Seasonality of Eddy-Induced Chlorophyll-a Anomalies in the Kuroshio Extension System, *Remote Sensing*, 15(15), 3865, doi: <https://doi.org/10.3390/rs15153865>.
- Wang, X., Y. Du, Y. Zhang, T. Wang, M. Wang, and Z. Jing (2023), Subsurface Anticyclonic Eddy Transited from Kuroshio Shedding Eddy in the Northern South China Sea, *J.*

- Phys. Oceanogr.*, 53(3), 841-861, doi: <https://doi.org/10.1175/JPO-D-22-0106.1>.
- Wang, Y., Z. Xu, Q. Li, Z. Chen, J. You, B. Yin, and R. Robertson (2023), Observed internal tides in the deep northwestern Pacific by argo floats, *Deep Sea Research Part II: Topical Studies in Oceanography*, 207, 105248, doi: <https://doi.org/10.1016/j.dsr2.2022.105248>.
- Wang, Y., J. Zhang, J. Yu, Q. Wu, and D. Sun (2023), Anticyclonic mesoscale eddy induced mesopelagic biomass hotspot in the oligotrophic ocean, *J. Mar. Syst.*, 237, 103831, doi: <https://doi.org/10.1016/j.jmarsys.2022.103831>.
- Wang, Z., T. Boyer, J. Reagan, and P. Hogan (2023), Upper-Oceanic Warming in the Gulf of Mexico between 1950 and 2020, *J. Clim.*, 36(8), 2721-2734, doi: <https://doi.org/10.1175/JCLI-D-22-0409.1>.
- Wang, Z., K. Saha, E. S. Nyadjro, Y. Zhang, B. Huang, and J. Reagan (2023), Oceanic Responses to the Winter Storm Outbreak of February 2021 in the Gulf of Mexico from In Situ and Satellite Observations, *Remote Sensing*, 15(12), doi: <https://doi.org/10.3390/rs15122967>.
- Wang, Z., et al. (2023), Water Mass Variations in the Maluku Channel of the Indonesian Seas During the Winter of 2018–2019, *Journal of Geophysical Research: Oceans*, 128(3), e2022JC018731, doi: <https://doi.org/10.1029/2022JC018731>.
- Wei, H.-H., A. C. Subramanian, K. B. Karnauskas, D. Du, M. A. Balmaseda, B. B. Sarojini, F. Vitart, C. A. DeMott, and M. R. Mazloff (2023), The role of in situ ocean data assimilation in ECMWF subseasonal forecasts of sea-surface temperature and mixed-layer depth over the tropical Pacific ocean, *Q. J. R. Meteorol. Soc.*, 149(757), 3513-3524, doi: <https://doi.org/10.1002/qj.4570>.
- Wei, Y., R. Ding, D. Huang, J. Xuan, H. Li, J. Zhang, X. Ma, F. Zhou, and J. Chen (2023), The Weakened Upwelling at the Upstream Kuroshio in the East China Sea Induced Extensive Sea Surface Warming, *Geophys. Res. Lett.*, 50(1), e2022GL101835, doi: <https://doi.org/10.1029/2022GL101835>.
- Werb, B. E., and D. L. Rudnick (2023), Remarkable Changes in the Dominant Modes of North Pacific Sea Surface Temperature, *Geophys. Res. Lett.*, 50(4), e2022GL101078, doi: <https://doi.org/10.1029/2022GL101078>.
- Westbrook, E. E., F. M. Bingham, S. Fournier, and A. Hayashi (2023), Matchup Strategies for Satellite Sea Surface Salinity Validation, *Remote Sensing*, 15(5), 1242, doi: <https://doi.org/10.3390/rs15051242>.
- Wett, S., M. Rhein, D. Kieke, C. Mertens, and M. Moritz (2023), Meridional Connectivity of a 25-Year Observational AMOC Record at 47°N, *Geophys. Res. Lett.*, 50(16), e2023GL103284, doi: <https://doi.org/10.1029/2023GL103284>.
- Wick, G. A., D. L. Jackson, and S. L. Castro (2023), Assessing the ability of satellite sea surface temperature analyses to resolve spatial variability – The northwest tropical Atlantic ATOMIC region, *Remote Sens. Environ.*, 284, 113377, doi: <https://doi.org/10.1016/j.rse.2022.113377>.
- Wilson, E. A., D. B. Bonan, A. F. Thompson, N. Armstrong, and S. C. Riser (2023), Mechanisms for Abrupt Summertime Circumpolar Surface Warming in the Southern Ocean, *J. Clim.*, 36(20), 7025-7039, doi: <https://doi.org/10.1175/JCLI-D-22-0501.1>.
- Wong, A. P. S., J. Gilson, and C. Cabanes (2023), Argo salinity: bias and uncertainty

- evaluation, *Earth Syst. Sci. Data*, 15(1), 383–393, doi: <https://doi.org/10.5194/essd-15-383-2023>.
- Woodstock, M. S., J. J. Kiszka, M. R. Ramírez-León, T. T. Sutton, K. Fennel, B. Wang, and Y. Zhang (2023), Cetacean-mediated vertical nitrogen transport in the oceanic realm, *Limnol. Oceanogr.*, 68(11), 2445–2460, doi: <https://doi.org/10.1002/lno.12433>.
- Wu, B., and L. Xu (2023), Zonally Asymmetric Multidecadal Variability of the North Pacific Subtropical Fronts, *J. Clim.*, 36(9), 2833–2846, doi: <https://doi.org/10.1175/JCLI-D-22-0299.1>.
- Wu, Q., X. Wang, Y. He, and J. Zheng (2023), The Relationship between Chlorophyll Concentration and ENSO Events and Possible Mechanisms off the Changjiang River Estuary, *Remote Sensing*, 15(9), doi: <https://doi.org/10.3390/rs15092384>.
- Wu, W., Z. Shen, S. Peng, Z. Zhan, and J. Callies (2023), Seismic Ocean Thermometry Using CTBTO Hydrophones, *Journal of Geophysical Research: Solid Earth*, 128(9), e2023JB026687, doi: <https://doi.org/10.1029/2023JB026687>.
- Wu, Y., and D. Qi (2023), The controversial Southern Ocean air-sea CO₂ flux in the era of autonomous ocean observations, *Science Bulletin*, 68(21), 2519–2522, doi: <https://doi.org/10.1016/j.scib.2023.08.059>.
- Wunsch, C. (2023), A Simplified Ocean Physics? Revisiting Abyssal Recipes, *J. Phys. Oceanogr.*, 53(5), 1387–1400, doi: <https://doi.org/10.1175/JPO-D-22-0229.1>.
- Wyatt, A. S. J., J. J. Leichter, L. Washburn, L. Kui, P. J. Edmunds, and S. C. Burgess (2023), Hidden heatwaves and severe coral bleaching linked to mesoscale eddies and thermocline dynamics, *Nature Communications*, 14(1), 25, doi: <https://doi.org/10.1038/s41467-022-35550-5>.
- Wynn-Edwards, C. A., E. H. Shadwick, P. Jansen, C. Schallenberg, T. L. Maurer, and A. J. Sutton (2023), Subantarctic pCO₂ estimated from a biogeochemical float: comparison with moored observations reinforces the importance of spatial and temporal variability, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1231953>.
- Xia, C., H. Lü, H. Huang, Y. Xia, Z. Chen, X. Ding, and W. Ning (2023), Drastic hydrodynamic changes in the western Bay of Bengal caused by tropical cyclone Nada, *Journal of Sea Research*, 194, 102409, doi: <https://doi.org/10.1016/j.seares.2023.102409>.
- Xia, C., H. Lü, H. Shen, S. Muhammad I, and X. Ding (2023), What happened around an inverted V-shaped track turning of the tropical cyclone Madi?, *Journal of Sea Research*, 191, 102324, doi: <https://doi.org/10.1016/j.seares.2022.102324>.
- Xiang, L., Y. Xu, H. Sun, Q. Zhang, L. Zhang, L. Zhang, X. Zhang, C. Huang, and D. Zhao (2023), Retrieval of Subsurface Velocities in the Southern Ocean from Satellite Observations, *Remote Sensing*, 15(24), 5699, doi: <https://doi.org/10.3390/rs15245699>.
- Xiao, B., F. Qiao, Q. Shu, X. Yin, G. Wang, and S. Wang (2023), Development and validation of a global 1/32° surface-wave–tide–circulation coupled ocean model: FIO-COM32, *Geosci. Model Dev.*, 16(6), 1755–1777, doi: <https://doi.org/10.5194/gmd-16-1755-2023>.
- Xie, C., R. Ding, J. Xuan, and D. Huang (2023), Interannual variations in salt flux at 80°E section of the equatorial Indian Ocean, *Sci. China Earth Sci.*, 66(9), 2142–2161, doi:

- <https://doi.org/10.1007/s11430-022-1140-x>.
- Xing, Q., H. Yu, H. Wang, S.-i. Ito, and F. Chai (2023), Mesoscale eddies modulate the dynamics of human fishing activities in the global midlatitude ocean, *Fish and Fisheries*, 24(4), 527-543, doi: <https://doi.org/10.1111/faf.12742>.
- Xing, X., P. Xiu, E. A. Laws, G. Yang, X. Liu, and F. Chai (2023), Light-Driven and Nutrient-Driven Displacements of Subsurface Chlorophyll Maximum Depth in Subtropical Gyres, *Geophys. Res. Lett.*, 50(22), e2023GL104510, doi: <https://doi.org/10.1029/2023GL104510>.
- Xu, J., S. Liang, H. Ma, T. He, Y. Zhang, and G. Zhang (2023), A daily 5-km all-sky sea-surface longwave radiation product based on statistically modified deep neural network and spatiotemporal analysis for 1981–2018, *Remote Sens. Environ.*, 290, 113550, doi: <https://doi.org/10.1016/j.rse.2023.113550>.
- Xue, S., B. Li, Z. Xiao, Y. Sun, and J. Li (2023), Centimeter-level-precision seafloor geodetic positioning model with self-structured empirical sound speed profile, *Satellite Navigation*, 4(1), 30, doi: <https://doi.org/10.1186/s43020-023-00120-7>.
- Yamazaki, K., S. Aoki, and K. Mizobata (2023), Diffusion of Circumpolar Deep Water Towards Antarctica, *Journal of Geophysical Research: Oceans*, 128(2), e2022JC019422, doi: <https://doi.org/10.1029/2022JC019422>.
- Yan, C., and J. Zhu (2023), A Simple Bias Correction Scheme in Ocean Data Assimilation, *Journal of Marine Science and Engineering*, 11(1), doi: <https://doi.org/10.3390/jmse11010205>.
- Yan, Y., Y. Zhou, Y. Xu, and W. Gu (2023), Assessment of the spatiotemporal variability of seawater temperature and salinity in the Yellow and Bohai seas from multiple high-resolution reanalysis datasets, *Ocean Dyn.*, 73(9), 557-573, doi: <https://doi.org/10.1007/s10236-023-01567-7>.
- Yang, C., X. Cheng, J.-S. von Storch, J. Qin, and B. Qiu (2023), Interbasin Differences in Interannual Variations of the Antarctic Circumpolar Current Transport, *Journal of Geophysical Research: Oceans*, 128(11), e2023JC020327, doi: <https://doi.org/10.1029/2023JC020327>.
- Yang, L., X. Zhao, P. Liang, T. Zhang, L. Xie, and R. Murtugudde (2023), Wind and Heat Forcings of the Seasonal and Interannual Sea Level Variabilities in the Southwest Pacific, *J. Phys. Oceanogr.*, 53(9), 2171-2187, doi: <https://doi.org/10.1175/JPO-D-23-0018.1>.
- Yang, Y., G. Fu, X. S. Liang, R. H. Weisberg, and Y. Liu (2023), Causal relations between the loop current penetration and the inflow/outflow conditions inferred with a rigorous quantitative causality analysis, *Deep Sea Research Part II: Topical Studies in Oceanography*, 209, 105298, doi: <https://doi.org/10.1016/j.dsr2.2023.105298>.
- Yang, Y., L. Zeng, and Q. Wang (2023), Assessment of global eddies from satellite data by a scale-selective eddy identification algorithm (SEIA), *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-023-06946-w>.
- Yao, H., C. Ma, Z. Jing, and Z. Zhang (2023), On the Vertical Structure of Mesoscale Eddies in the Kuroshio-Oyashio Extension, *Geophys. Res. Lett.*, 50(24), e2023GL105642, doi: <https://doi.org/10.1029/2023GL105642>.
- Yao, R., W. Shao, M. Hao, J. Zuo, and S. Hu (2023), The Response of Wave on Sea Surface

- Temperature in the Context of Global Change, *Remote Sensing*, 15(7), 1948, doi: <https://doi.org/10.3390/rs15071948>.
- Ye, R., et al. (2023), An Energetic Mesoscale Anticyclonic Eddy in the Southern Bay of Bengal in June 2020: A Case Study, *Journal of Geophysical Research: Oceans*, 128(8), e2022JC019188, doi: <https://doi.org/10.1029/2022JC019188>.
- Ye, S., R.-H. Zhang, and H. Wang (2023), The role played by tropical cyclones-induced freshwater flux forcing in the upper-ocean responses: A case for Typhoon Yutu (2018), *Ocean Model.*, 184, 102211, doi: <https://doi.org/10.1016/j.ocemod.2023.102211>.
- Yin, J. (2023), Rapid Decadal Acceleration of Sea Level Rise along the U.S. East and Gulf Coasts during 2010–22 and Its Impact on Hurricane-Induced Storm Surge, *J. Clim.*, 36(13), 4511–4529, doi: <https://doi.org/10.1175/JCLI-D-22-0670.1>.
- Youngs, M. K., M. A. Freilich, and N. S. Lovenduski (2023), Air-Sea CO₂ Fluxes Localized by Topography in a Southern Ocean Channel, *Geophys. Res. Lett.*, 50(18), e2023GL104802, doi: <https://doi.org/10.1029/2023GL104802>.
- Yu, J., H. Zhang, H. Wang, D. Tian, and J. Li (2023), Upper-ocean structure variability in the Northwest Pacific Ocean in response to tropical cyclones, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1245348>.
- Yu, L. (2023), Connecting subtropical salinity maxima to tropical salinity minima: Synchronization between ocean dynamics and the water cycle, *Prog. Oceanogr.*, 219, 103172, doi: <https://doi.org/10.1016/j.pocean.2023.103172>.
- Yu, L., Y. Chen, A. O. Gonzalez, C. Zhang, and G. R. Foltz (2023), Dry Air Outbreak and Significant Surface Turbulent Heat Loss During Hurricane Ian: Satellite and Saildrone Observations, *Geophys. Res. Lett.*, 50(23), e2023GL105583, doi: <https://doi.org/10.1029/2023GL105583>.
- Yu, Y., D. T. Sandwell, and S. T. Gille (2023), Seasonality of the Sub-Mesoscale to Mesoscale Sea Surface Variability From Multi-Year Satellite Altimetry, *Journal of Geophysical Research: Oceans*, 128(2), e2022JC019486, doi: <https://doi.org/10.1029/2022JC019486>.
- Yumruktepe, V. Ç., E. A. Mousing, J. Tjiputra, and A. Samuelsen (2023), An along-track Biogeochemical Argo modelling framework: a case study of model improvements for the Nordic seas, *Geosci. Model Dev.*, 16(22), 6875–6897, doi: <https://doi.org/10.5194/gmd-16-6875-2023>.
- Zhai, Z., Y. Wang, M. A. Lazzara, L. M. Keller, and Q. Wu (2023), Snow Accumulation Variability at the South Pole From 1983 to 2020, Associated With Central Tropical Pacific Forcing, *Journal of Geophysical Research: Atmospheres*, 128(24), e2023JD039388, doi: <https://doi.org/10.1029/2023JD039388>.
- Zhan, J., S. Wu, J. Qi, J. Zeng, M. Qin, Y. Wang, and Z. Du (2023), A generalized spatial autoregressive neural network method for three-dimensional spatial interpolation, *Geosci. Model Dev.*, 16(10), 2777–2794, doi: <https://doi.org/10.5194/gmd-16-2777-2023>.
- Zhan, W., Y. Zhang, Q. He, and H. Zhan (2023), Shifting responses of phytoplankton to atmospheric and oceanic forcing in a prolonged marine heatwave, *Limnol. Oceanogr.*, 68(8), 1821–1834, doi: <https://doi.org/10.1002/lno.12388>.

- Zhang, C., M. Cui, W. Yu, and B. Liu (2023), Application of Gradient-Dependent Optimal Interpolation in Fishery Analysis of Neon Flying Squid (*Ommastrephes bartramii*) in the Kuroshio–Oyashio Confluence Region, *Animals*, 13(21), 3425, doi: <https://doi.org/10.3390/ani13213425>.
- Zhang, C., et al. (2023), Hurricane Observations by Uncrewed Systems, *Bull. Amer. Meteorol. Soc.*, 104(10), E1893-E1917, doi: <https://doi.org/10.1175/BAMS-D-21-0327.1>.
- Zhang, G., et al. (2023), Subsurface sound channel and seasonal variation of its characteristics in the mid-latitude of Northwest Pacific, *J. Oceanogr.*, 79(6), 619-627, doi: <https://doi.org/10.1007/s10872-023-00701-9>.
- Zhang, H., J. Wang, F. Wang, Z. Zhang, and Q. Ma (2023), Observed Upper Deep Branch of the Pacific Meridional Overturning Circulation North of New Guinea, *J. Phys. Oceanogr.*, 53(5), 1375-1386, doi: <https://doi.org/10.1175/JPO-D-22-0180.1>.
- Zhang, J., P. Ning, X. Zhang, X. Wang, and A. Zhang (2023), Deriving Sea Subsurface Temperature Fields From Satellite Remote Sensing Data Using a Generative Adversarial Network Model, *Earth and Space Science*, 10(4), e2022EA002804, doi: <https://doi.org/10.1029/2022EA002804>.
- Zhang, J., and C. Wang (2023), Zonal current structure of the Indian Ocean in CMIP6 models, *Deep Sea Research Part II: Topical Studies in Oceanography*, 208, 105260, doi: <https://doi.org/10.1016/j.dsr2.2023.105260>.
- Zhang, J., X. Zhang, X. Wang, P. Ning, and A. Zhang (2023), Reconstructing 3D ocean subsurface salinity (OSS) from T-S mapping via a data-driven deep learning model, *Ocean Model.*, 184, 102232, doi: <https://doi.org/10.1016/j.ocemod.2023.102232>.
- Zhang, K., Q. Wang, B. Yin, D. Yang, and L. Yang (2023), Contribution of Deep Vertical Velocity to Deficiency of Sverdrup Transport in the Low-Latitude North Pacific, *J. Phys. Oceanogr.*, 53(11), 2651-2668, doi: <https://doi.org/10.1175/JPO-D-23-0006.1>.
- Zhang, L., Y. Zhang, and X. Yin (2023), Aquarius sea surface salinity retrieval in coastal regions based on deep neural networks, *Remote Sens. Environ.*, 284, 113357, doi: <https://doi.org/10.1016/j.rse.2022.113357>.
- Zhang, Q., C. Qian, and C. Dong (2023), A machine learning approach to quality-control Argo temperature data, *Atmospheric and Oceanic Science Letters*, 16(4), 100292, doi: <https://doi.org/10.1016/j.aosl.2022.100292>.
- Zhang, S., Y. Bai, X. He, S. Yu, Z. Song, F. Gong, Q. Zhu, and D. Pan (2023), The carbon sink of the Coral Sea, the world's second largest marginal sea, weakened during 2006–2018, *Science of The Total Environment*, 872, 162219, doi: <https://doi.org/10.1016/j.scitotenv.2023.162219>.
- Zhang, S., J. Wang, H. Jiang, H. Wang, and D. Yuan (2023), Effects of Indian Ocean Dipole initialization on the forecasting of La Niña 1 year in advance, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-023-06816-5>.
- Zhang, T. (2023), Features of upper ocean and surface waves during the passage of super typhoon Hinnamnor (2022), *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1275565>.
- Zhang, T., et al. (2023), Environmental impacts of three Asian dust events in the northern China and the northwestern Pacific in spring 2021, *Science of The Total Environment*, 859, 160230, doi: <https://doi.org/10.1016/j.scitotenv.2022.160230>.

- Zhang, W., J. Zhang, Q. Liu, J. Sun, R. Li, and C. Guan (2023), Effects of Surface Wave-Induced Mixing and Wave-Affected Exchange Coefficients on Tropical Cyclones, *Remote Sensing*, 15(6), 1594, doi: <https://doi.org/10.3390/rs15061594>.
- Zhang, Y., Y. Bai, X. He, T. Li, Z. Jiang, and F. Gong (2023), Three stages in the variation of the depth of hypoxia in the California Current System 2003–2020 by satellite estimation, *Science of The Total Environment*, 874, 162398, doi: <https://doi.org/10.1016/j.scitotenv.2023.162398>.
- Zhang, Y., and Z. Chen (2023), Cool Skin Effect as Seen from a New Generation Geostationary Satellite Himawari-8, *Remote Sensing*, 15(18), 4408, doi: <https://doi.org/10.3390/rs15184408>.
- Zhang, Y., Y. Du, M. Feng, and A. J. Hobday (2023), Vertical structures of marine heatwaves, *Nature Communications*, 14(1), 6483, doi: <https://doi.org/10.1038/s41467-023-42219-0>.
- Zhang, Y., Y. Liu, S. Guan, Q. Wang, W. Zhao, and J. Tian (2023), Sudden Track Turning of Typhoon Prapiroon (2012) Enhanced the Upper Ocean Response, *Remote Sensing*, 15(2), doi: <https://doi.org/10.3390/rs15020302>.
- Zhang, Y., S. Yue, K. Xu, Z. Zhang, L. Zhou, Y. Zhang, and G. Lü (2023), Performance analysis of global HYCOM flow field using Argo profiles, *International Journal of Digital Earth*, 16(1), 3537–3560, doi: <https://doi.org/10.1080/17538947.2023.2252407>.
- Zhang, Y., X. Zhao, and H.-M. Zhang (2023), Relationship Between the Aerosol Loadings Over the Bay of Bengal and the Arabian Sea in the Early Summer and Asian Monsoon Rainfall Anomalies, and the Role of SST Anomalies in the Indian Ocean, *Journal of Geophysical Research: Atmospheres*, 128(12), e2022JD038112, doi: <https://doi.org/10.1029/2022JD038112>.
- Zhang, Y. J., T. Fernandez-Montblanc, W. Pringle, H. C. Yu, L. Cui, and S. Moghimi (2023), Global seamless tidal simulation using a 3D unstructured-grid model (SCHISM v5.10.0), *Geosci. Model Dev.*, 16(9), 2565–2581, doi: <https://doi.org/10.5194/gmd-16-2565-2023>.
- Zhang, Z., P. Chen, C. Jamet, D. Dionisi, Y. Hu, X. Lu, and D. Pan (2023), Retrieving bbp and POC from CALIOP: A deep neural network approach, *Remote Sens. Environ.*, 287, 113482, doi: <https://doi.org/10.1016/j.rse.2023.113482>.
- Zhang, Z., X. Chen, T. Pohlmann, and C. Yuan (2023), Link Between Equatorial Wind Anomalies and Intraseasonal Eddies in the Northeastern Bay of Bengal, *Journal of Geophysical Research: Oceans*, 128(4), e2022JC019497, doi: <https://doi.org/10.1029/2022JC019497>.
- Zhang, Z., J. Wang, J. Hao, D. Yuan, and K. Wang (2023), Surface cross-equatorial pathways of seawater from the Bay of Bengal, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1101716>.
- Zhang, Z., Y. Zheng, and H. Li (2023), Imprints of tropical cyclone on three-dimensional structural characteristics of mesoscale oceanic eddies, *Frontiers in Earth Science*, 10, doi: <https://doi.org/10.3389/feart.2022.1057798>.
- Zhang, Z., and W. Zhou (2023), Impact of Saharan dust on landfalling North Atlantic tropical cyclones over North America in September, *Atmospheric and Oceanic Science Letters*, 16(1), 100276, doi: <https://doi.org/10.1016/j.aosl.2022.100276>.

- Zhao, R., X.-H. Zhu, C. Zhang, H. Zheng, Z.-N. Zhu, Q. Ren, Y. Liu, F. Nan, and F. Yu (2023), Summer Anticyclonic Eddies Carrying Kuroshio Waters Observed by a Large CPIES Array West of the Luzon Strait, *J. Phys. Oceanogr.*, 53(1), 341-359, doi: <https://doi.org/10.1175/JPO-D-22-0019.1>.
- Zhao, Y., J. Qi, S. Zhu, W. Jia, X. Gong, W. Yin, and B. Yin (2023), Estimation of the barrier layer thickness in the Indian Ocean based on hybrid neural network model, *Deep Sea Research Part I: Oceanographic Research Papers*, 202, 104179, doi: <https://doi.org/10.1016/j.dsr.2023.104179>.
- Zhao, Z., J. Shi, W. Shao, R. Yao, and H. Li (2023), The Influence of Typhoon-Induced Wave on the Mesoscale Eddy, *Atmosphere*, 14(12), doi: <https://doi.org/10.3390/atmos14121804>.
- Zhao, Z., W. Wu, M. Wang, and Y. Du (2023), Circulation structure and dynamic characteristics of Western Tropical Indian Ocean associated with monsoon transitions, *Deep Sea Research Part I: Oceanographic Research Papers*, 191, 103943, doi: <https://doi.org/10.1016/j.dsr.2022.103943>.
- Zhao, Z., W. Wu, Y. Xia, and Y. Du (2023), Interior Route and Seasonal Dynamics of the Meridional Current in the Eastern Indian Ocean Tropical Gyre, *Journal of Geophysical Research: Oceans*, 128(10), e2023JC019959, doi: <https://doi.org/10.1029/2023JC019959>.
- Zheng, H., and W.-Z. Zhang (2023), An extraordinary chlorophyll-a enhancement event jointly induced by two sequential tropical cyclones in the Kuroshio region south of Japan, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1269310>.
- Zheng, Y., Z. Ma, J. Tang, and Z. Zhang (2023), The Coastal Effect on Ahead-of-Eye-Center Cooling Induced by Tropical Cyclones, *J. Phys. Oceanogr.*, 53(6), 1519-1534, doi: <https://doi.org/10.1175/JPO-D-22-0139.1>.
- Zheng, Z.-W., J.-Y. Lin, G. Gopalakrishnan, Y.-R. Chen, D.-J. Doong, C.-R. Ho, Q. Zheng, C.-R. Wu, and C.-F. Huang (2023), Extreme cooling of 12.5 °C triggered by Typhoon Fungwong (2008), *Ocean Model.*, 182, 102176, doi: <https://doi.org/10.1016/j.ocemod.2023.102176>.
- Zhou, G., G. Han, W. Li, X. Wang, X. Wu, L. Cao, and C. Li (2023), High-Resolution Gridded Temperature and Salinity Fields From Argo Floats Based on a Spatiotemporal Four-Dimensional Multigrid Analysis Method, *Journal of Geophysical Research: Oceans*, 128(5), e2022JC019386, doi: <https://doi.org/10.1029/2022JC019386>.
- Zhou, Y., S. Chen, W. Ma, J. Xi, Z. Zhang, and X. Xing (2023), Spatiotemporal variations of the oxycline and its response to subduction events in the Arabian Sea, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1171614>.
- Zhu, C., Z. Liu, S. Zhang, and L. Wu (2023), Likely accelerated weakening of Atlantic overturning circulation emerges in optimal salinity fingerprint, *Nature Communications*, 14(1), 1245, doi: <https://doi.org/10.1038/s41467-023-36288-4>.
- Zhuang, Z., Y. Yang, Q. Shu, Z. Song, B. Zhao, and Y. Yuan (2023), Variability of non-breaking surface-wave induced mixing and its effects on ocean thermodynamical structure in the northwest Pacific during Typhoon Lekima (2019), *Deep Sea Research Part I: Oceanographic Research Papers*, 202, 104178, doi: <https://doi.org/10.1016/j.dsr.2023.104178>.

- <https://doi.org/10.1016/j.dsr.2023.104178>.
- Zhurbas, V., K. Lebedev, and N. Kuzmina (2023), Is There the Equatorial Water Mass in the Atlantic Ocean?, *Geophys. Res. Lett.*, 50(21), e2023GL104866, doi: <https://doi.org/10.1029/2023GL104866>.
- Zilberman, N. V., M. Scanderbeg, A. R. Gray, and P. R. Oke (2023), Scripps Argo Trajectory-Based Velocity Product: Global Estimates of Absolute Velocity Derived from Core, Biogeochemical, and Deep Argo Float Trajectories at Parking Depth, *J. Atmos. Ocean. Technol.*, 40(3), 361-374, doi: <https://doi.org/10.1175/JTECH-D-22-0065.1>.
- Zilberman, N. V., et al. (2023), Observing the full ocean volume using Deep Argo floats, *Frontiers in Marine Science*, 10, doi: <https://doi.org/10.3389/fmars.2023.1287867>.

2022 (580)

- Abernathey, R., C. Bladwell, G. Froyland, and K. Sakellariou (2022), Deep Lagrangian Connectivity in the Global Ocean Inferred from Argo Floats, *J. Phys. Oceanogr.*, 52(5), 951-963, doi: <https://doi.org/10.1175/JPO-D-21-0156.1>.
- Abernathey, R., A. Gnanadesikan, M.-A. Pradal, and M. A. Sundermeyer (2022), Chapter 9 - Isopycnal mixing, in *Ocean Mixing*, edited by M. Meredith and A. Naveira Garabato, pp. 215-256, Elsevier, doi: <https://doi.org/10.1016/B978-0-12-821512-8.00016-5>.
- Abraham, J., L. Cheng, M. E. Mann, K. Trenberth, and K. von Schuckmann (2022), The ocean response to climate change guides both adaptation and mitigation efforts, *Atmospheric and Oceanic Science Letters*, 15(4), 100221, doi: <https://doi.org/10.1016/j.aosl.2022.100221>.
- Addey, C. I. (2022), Using Biogeochemical Argo floats to understand ocean carbon and oxygen dynamics, *Nature Reviews Earth & Environment*, 3(11), 739-739, doi: <https://doi.org/10.1038/s43017-022-00341-5>.
- Ahmed, R., S. Prakash, M. Mohapatra, R. K. Giri, and S. Dwivedi (2022), Understanding the rapid intensification of extremely severe cyclonic storm 'Tauktae' using remote-sensing observations, *Meteorology and Atmospheric Physics*, 134(6), 97, doi: <https://doi.org/10.1007/s00703-022-00935-0>.
- Akhter, S., F. Qiao, K. Wu, X. Yin, K. M. A. Chowdhury, M. K. Ahmed, and A. S. M. M. Kamal (2022), Spatiotemporal variations of the thermohaline structure and cyclonic response in the northern Bay of Bengal: The evaluation of a global ocean forecasting system, *Journal of Sea Research*, 182, 102188, doi: <https://doi.org/10.1016/j.seares.2022.102188>.
- Al-Ansari, E. M. A. S., Y. S. Husrevoglu, O. Yigiterhan, N. Youssef, I. A. Al-Maslmani, M. A. Abdel-Moati, A. J. Al-Mohamedi, V. M. Aboobacker, and P. Vethamony (2022), Seasonal variability of hydrography off the east coast of Qatar, central Arabian Gulf, *Arabian Journal of Geosciences*, 15(22), 1659, doi: <https://doi.org/10.1007/s12517-022-10927-4>.
- Al-Shehhi, M. R. (2022), Uncertainty in satellite sea surface temperature with respect to air temperature, dust level, wind speed and solar position, *Regional Studies in Marine Science*, 53, 102385, doi: <https://doi.org/10.1016/j.rsma.2022.102385>.

- Andreev, A., and I. Pipko (2022), Water Circulation, Temperature, Salinity, and pCO₂ Distribution in the Surface Layer of the East Kamchatka Current, *Journal of Marine Science and Engineering*, 10(11), doi: <https://doi.org/10.3390/jmse10111787>.
- Anutaliya, A., U. Send, J. L. McClean, J. Sprintall, M. Lankhorst, C. M. Lee, L. Rainville, W. N. C. Priyadarshani, and S. U. P. Jinadasa (2022), Seasonal and Year-To-Year Variability of Boundary Currents and Eddy Salt Flux along the Eastern and Southern Coasts of Sri Lanka Observed by PIES and Satellite Measurements, *J. Phys. Oceanogr.*, 52(12), 3015-3031, doi: <https://doi.org/10.1175/JPO-D-22-0030.1>.
- Aparna, A. R., and M. S. Girishkumar (2022), Mixed layer heat budget in the eastern equatorial Indian Ocean during the two consecutive positive Indian Ocean dipole events in 2018 and 2019, *Climate Dynamics*, 58(11), 3297-3315, doi: <https://doi.org/10.1007/s00382-021-06099-8>.
- Arbic, B. K. (2022), Incorporating tides and internal gravity waves within global ocean general circulation models: A review, *Prog. Oceanogr.*, 206, 102824, doi: <https://doi.org/10.1016/j.pocean.2022.102824>.
- Arostegui, M. C., P. Gaube, P. A. Woodworth-Jefcoats, D. R. Kobayashi, and C. D. Braun (2022), Anticyclonic eddies aggregate pelagic predators in a subtropical gyre, *Nature*, 609(7927), 535-540, doi: <https://doi.org/10.1038/s41586-022-05162-6>.
- Arteaga, L. A., M. J. Behrenfeld, E. Boss, and T. K. Westberry (2022), Vertical Structure in Phytoplankton Growth and Productivity Inferred From Biogeochemical-Argo Floats and the Carbon-Based Productivity Model, *Glob. Biogeochem. Cycle*, 36(8), e2022GB007389, doi: <https://doi.org/10.1029/2022GB007389>.
- AS, M. A. A., and S.-Y. Lee (2022), A Combination of Spatial Domain Filters to Detect Surface Ocean Current from Multi-Sensor Remote Sensing Data, *Remote Sensing*, 14(2), 332, doi: <https://doi.org/10.3390/rs14020332>.
- Athie, G., D. Salas-Monreal, and A. Valle-Levinson (2022), Subinertial flow patterns in a tropical coral reef system of the southwestern gulf of Mexico, *Estuarine, Coastal and Shelf Science*, 275, 107991, doi: <https://doi.org/10.1016/j.ecss.2022.107991>.
- Baalbaki, H., H. Harb, A. S. K. Rashid, A. Jaber, C. A. Jaoude, C. Zaki, and K. Tout (2022), LOGO: an efficient local and global data collection mechanism for remote underwater monitoring, *EURASIP Journal on Wireless Communications and Networking*, 2022(1), 7, doi: <https://doi.org/10.1186/s13638-022-02086-7>.
- Baetge, N., L. M. Bolaños, A. D. Penna, P. Gaube, S. Liu, K. Opalk, J. R. Graff, S. J. Giovannoni, M. J. Behrenfeld, and C. A. Carlson (2022), Bacterioplankton response to physical stratification following deep convection, *Elementa: Science of the Anthropocene*, 10(1), doi: <https://doi.org/10.1525/elementa.2021.00078>.
- Baker, C. A., A. P. Martin, A. Yool, and E. Popova (2022), Biological Carbon Pump Sequestration Efficiency in the North Atlantic: A Leaky or a Long-Term Sink?, *Glob. Biogeochem. Cycle*, 36(6), e2021GB007286, doi: <https://doi.org/10.1029/2021GB007286>.
- Balaguru, K., G. R. Foltz, L. R. Leung, and S. M. Hagos (2022), Impact of Rainfall on Tropical Cyclone-Induced Sea Surface Cooling, *Geophys. Res. Lett.*, 49(10), e2022GL098187, doi: <https://doi.org/10.1029/2022GL098187>.
- Barbieux, M., et al. (2022), Biological production in two contrasted regions of the

- Mediterranean Sea during the oligotrophic period: an estimate based on the diel cycle of optical properties measured by BioGeoChemical-Argo profiling floats, *Biogeosciences*, 19(4), 1165-1194, doi: <https://doi.org/10.5194/bg-19-1165-2022>.
- Barton, B. I., C. Lique, Y.-D. Lenn, and C. Talandier (2022), An Ice-Ocean Model Study of the Mid-2000s Regime Change in the Barents Sea, *Journal of Geophysical Research: Oceans*, 127(11), e2021JC018280, doi: <https://doi.org/10.1029/2021JC018280>.
- Bastin, S., M. Claus, P. Brandt, and R. J. Greatbatch (2022), Atlantic Equatorial Deep Jets in Argo Float Data, *J. Phys. Oceanogr.*, 52(6), 1315-1332, doi: <https://doi.org/10.1175/JPO-D-21-0140.1>.
- Beadling, R. L., J. P. Krasting, S. M. Griffies, W. J. Hurlin, B. Bronselaer, J. L. Russell, G. A. MacGilchrist, J. E. Tesdal, and M. Winton (2022), Importance of the Antarctic Slope Current in the Southern Ocean Response to Ice Sheet Melt and Wind Stress Change, *Journal of Geophysical Research: Oceans*, 127(5), e2021JC017608, doi: <https://doi.org/10.1029/2021JC017608>.
- Beaton, A. D., et al. (2022), Lab-on-Chip for In Situ Analysis of Nutrients in the Deep Sea, *ACS Sensors*, 7(1), 89-98, doi: <https://doi.org/10.1021/acssensors.1c01685>.
- Begouen Demeaux, C., and E. Boss (2022), Validation of Remote-Sensing Algorithms for Diffuse Attenuation of Downward Irradiance Using BGC-Argo Floats, *Remote Sensing*, 14(18), 4500, doi: <https://doi.org/10.3390/rs14184500>.
- Behr, L., N. Luther, S. A. Josey, J. Luterbacher, S. Wagner, and E. Xoplaki (2022), On the Representation of Mediterranean Overflow Waters in Global Climate Models, *J. Phys. Oceanogr.*, 52(7), 1397-1413, doi: <https://doi.org/10.1175/JPO-D-21-0082.1>.
- Belyaev, K. P., A. A. Kuleshov, and I. N. Smirnov (2022), Numerical Modeling of Ocean Dynamics Using the NEMO Model with Data Assimilation Using a Generalized Kalman Filter, *Moscow University Computational Mathematics and Cybernetics*, 46(3), 111-116, doi: <https://doi.org/10.3103/S0278641922030025>.
- Bennani, Y., A. Ayouche, and X. Carton (2022), 3D Structure of the Ras Al Hadd Oceanic Dipole, *Oceans*, 3(3), 268-288, doi: <https://doi.org/10.3390/oceans3030019>.
- Bennington, V., T. Galjanic, and G. A. McKinley (2022), Explicit Physical Knowledge in Machine Learning for Ocean Carbon Flux Reconstruction: The pCO₂-Residual Method, *Journal of Advances in Modeling Earth Systems*, 14(10), e2021MS002960, doi: <https://doi.org/10.1029/2021MS002960>.
- Benthuisen, J. A., M. J. Emslie, L. M. Currey-Randall, A. J. Cheal, and M. R. Heupel (2022), Oceanographic influences on reef fish assemblages along the Great Barrier Reef, *Prog. Oceanogr.*, 208, 102901, doi: <https://doi.org/10.1016/j.pocean.2022.102901>.
- Bhate, J., A. Kesarkar, A. Munsri, K. Singh, A. Ghosh, A. Panchal, R. Giri, and M. M. Ali (2022), Observations and mesoscale forecasts of the life cycle of rapidly intensifying super cyclonic storm Amphan (2020), *Meteorology and Atmospheric Physics*, 135(1), 7, doi: <https://doi.org/10.1007/s00703-022-00944-z>.
- Biló, T. C., F. Straneo, J. Holte, and I. A. A. Le Bras (2022), Arrival of New Great Salinity Anomaly Weakens Convection in the Irminger Sea, *Geophys. Res. Lett.*, 49(11), e2022GL098857, doi: <https://doi.org/10.1029/2022GL098857>.
- Bock, N., M. Cornec, H. Claustre, and S. Duhamel (2022), Biogeographical Classification of the Global Ocean From BGC-Argo Floats, *Glob. Biogeochem. Cycle*, 36(6),

- e2021GB007233, doi: <https://doi.org/10.1029/2021GB007233>.
- Bohman, S. M., and A. L. Gordon (2022), Mixed layer evolution in high and low sea level anomaly features in the Bay of Bengal, *Dynamics of Atmospheres and Oceans*, 100, 101335, doi: <https://doi.org/10.1016/j.dynatmoce.2022.101335>.
- Bonelli, A. G., H. Loisel, D. S. F. Jorge, A. Mangin, O. F. d'Andon, and V. Vantrepotte (2022), A new method to estimate the dissolved organic carbon concentration from remote sensing in the global open ocean, *Remote Sens. Environ.*, 281, 113227, doi: <https://doi.org/10.1016/j.rse.2022.113227>.
- Bourgeois, T., N. Goris, J. Schwinger, and J. F. Tjiputra (2022), Stratification constrains future heat and carbon uptake in the Southern Ocean between 30°S and 55°S, *Nature Communications*, 13(1), 340, doi: <https://doi.org/10.1038/s41467-022-27979-5>.
- Bourma, E., et al. (2022), The Hellenic Marine Observing, Forecasting and Technology System—An Integrated Infrastructure for Marine Research, *Journal of Marine Science and Engineering*, 10(3), 329, doi: <https://doi.org/10.3390/jmse10030329>.
- Bretones, A., K. H. Nisancioglu, M. F. Jensen, A. Brakstad, and S. Yang (2022), Transient Increase in Arctic Deep-Water Formation and Ocean Circulation under Sea Ice Retreat, *J. Clim.*, 35(1), 109-124, doi: <https://doi.org/10.1175/JCLI-D-21-0152.1>.
- Brewin, R. J. W., G. Dall'Olmo, J. Gittings, X. Sun, P. K. Lange, D. E. Raitsos, H. A. Bouman, I. Hoteit, J. Aiken, and S. Sathyendranath (2022), A Conceptual Approach to Partitioning a Vertical Profile of Phytoplankton Biomass Into Contributions From Two Communities, *Journal of Geophysical Research: Oceans*, 127(4), e2021JC018195, doi: <https://doi.org/10.1029/2021JC018195>.
- Britten, G. L., C. Padalino, G. Forget, and M. J. Follows (2022), Seasonal Photoacclimation in the North Pacific Transition Zone, *Glob. Biogeochem. Cycle*, 36(6), e2022GB007324, doi: <https://doi.org/10.1029/2022GB007324>.
- Bruyant, F., et al. (2022), The Green Edge cruise: investigating the marginal ice zone processes during late spring and early summer to understand the fate of the Arctic phytoplankton bloom, *Earth Syst. Sci. Data*, 14(10), 4607-4642, doi: <https://doi.org/10.5194/essd-14-4607-2022>.
- Budyansky, M. V., S. V. Prants, and M. Y. Uleysky (2022), Odyssey of Aleutian eddies, *Ocean Dyn.*, 72(6), 455-476, doi: <https://doi.org/10.1007/s10236-022-01508-w>.
- Bueno, L. F., V. S. Costa, G. N. Mill, and A. M. Paiva (2022), Volume and Heat Transports by North Brazil Current Rings, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.831098>.
- Bushuk, M., et al. (2022), Mechanisms of Regional Arctic Sea Ice Predictability in Two Dynamical Seasonal Forecast Systems, *J. Clim.*, 35(13), 4207-4231, doi: <https://doi.org/10.1175/JCLI-D-21-0544.1>.
- Cao, A., C. Liu, J. Chen, P. Li, and J. Song (2022), Enhanced turbulent mixing in mesoscale eddies near the critical latitude of the M2 internal tides, *Deep Sea Research Part I: Oceanographic Research Papers*, 185, 103801, doi: <https://doi.org/10.1016/j.dsr.2022.103801>.
- Cao, Q., C. Dong, Y. Ji, X. Jiang, B. J. Bethel, C. Xia, and C. He (2022), Seamount-induced mixing revealed through idealized experiments and its parameterization in an Oceanic General Circulation Model, *Deep Sea Research Part II: Topical Studies in*

- Oceanography*, 202, 105144, doi: <https://doi.org/10.1016/j.dsr2.2022.105144>.
- Capet, A., G. Taburet, E. Mason, M. I. Pujol, M. Grégoire, and M.-H. Rio (2022), Using Argo Floats to Characterize Altimetry Products: A Study of Eddy-Induced Subsurface Oxygen Anomalies in the Black Sea, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.875653>.
- Carlson, M. C. G., et al. (2022), Viruses affect picocyanobacterial abundance and biogeography in the North Pacific Ocean, *Nature Microbiology*, 7(4), 570-580, doi: <https://doi.org/10.1038/s41564-022-01088-x>.
- Carter, L., H. Bostock-Lyman, and M. Bowen (2022), Chapter 4 - Water masses, circulation and change in the modern Southern Ocean, in *Antarctic Climate Evolution (Second Edition)*, edited by F. Florindo, M. Siebert, L. D. Santis and T. Naish, pp. 165-197, Elsevier, Amsterdam, doi: <https://doi.org/10.1016/B978-0-12-819109-5.00003-7>.
- Chacko, N., and C. Jayaram (2022), Response of the Bay of Bengal to super cyclone Amphan examined using synergistic satellite and in-situ observations, *Oceanologia*, 64(1), 131-144, doi: <https://doi.org/10.1016/j.oceano.2021.09.006>.
- Chandler, M., N. V. Zilberman, and J. Sprintall (2022), Seasonal to Decadal Western Boundary Current Variability From Sustained Ocean Observations, *Geophys. Res. Lett.*, 49(12), e2022GL097834, doi: <https://doi.org/10.1029/2022GL097834>.
- Chang, L., and W. Sun (2022), Consistency analysis of GRACE and GRACE-FO data in the study of global mean sea level change, *Geodesy and Geodynamics*, doi: <https://doi.org/10.1016/j.geog.2021.11.005>.
- Chapman, C. C., D. P. Monselesan, J. S. Risbey, M. Feng, and B. M. Sloyan (2022), A large-scale view of marine heatwaves revealed by archetype analysis, *Nature Communications*, 13(1), 7843, doi: <https://doi.org/10.1038/s41467-022-35493-x>.
- Chen, G., X. Chen, and C. Cao (2022), Divergence and Dispersion of Global Eddy Propagation from Satellite Altimetry, *J. Phys. Oceanogr.*, 52(4), 705-722, doi: <https://doi.org/10.1175/JPO-D-21-0122.1>.
- Chen, G., W. Han, T. Zu, X. Chu, and J. Chen (2022), The Deep-Penetrating South Equatorial Undercurrent in the Tropical South Indian Ocean, *Geophys. Res. Lett.*, 49(6), e2022GL098163, doi: <https://doi.org/10.1029/2022GL098163>.
- Chen, H., F. A. Haumann, L. D. Talley, K. S. Johnson, and J. L. Sarmiento (2022), The Deep Ocean's Carbon Exhaust, *Glob. Biogeochem. Cycle*, 36(7), e2021GB007156, doi: <https://doi.org/10.1029/2021GB007156>.
- Chen, J., A. Cazenave, C. Dahle, W. Llovel, I. Panet, J. Pfeffer, and L. Moreira (2022), Applications and Challenges of GRACE and GRACE Follow-On Satellite Gravimetry, *Surveys in Geophysics*, 43(1), 305-345, doi: <https://doi.org/10.1007/s10712-021-09685-x>.
- Chen, J., X. Gong, X. Guo, X. Xing, K. Lu, H. Gao, and X. Gong (2022), Improved Perceptron of Subsurface Chlorophyll Maxima by a Deep Neural Network: A Case Study with BGC-Argo Float Data in the Northwestern Pacific Ocean, *Remote Sensing*, 14(3), 632, doi: <https://doi.org/10.3390/rs14030632>.
- Chen, J., H. Yan, S. Bao, X. Cui, C. Bai, and H. Wang (2022), Evaluating the contribution of satellite measurements to the reconstruction of three-dimensional ocean temperature fields in combination with Argo profiles, *Acta Oceanol. Sin.*, 41(2),

- 65-79, doi: <https://doi.org/10.1007/s13131-021-1858-3>.
- Chen, J., X.-H. Zhu, M. Wang, H. Zheng, R. Zhao, H. Nakamura, and T. Yamashiro (2022), Incoherent signatures of internal tides in the Tokara Strait modulated by the Kuroshio, *Prog. Oceanogr.*, 206, 102863, doi: <https://doi.org/10.1016/j.pocean.2022.102863>.
- Chen, L., R.-H. Zhang, and C. Gao (2022), Effects of Temperature and Salinity on Surface Currents in the Equatorial Pacific, *Journal of Geophysical Research: Oceans*, 127(4), e2021JC018175, doi: <https://doi.org/10.1029/2021JC018175>.
- Chen, S., Y. Meng, S. Lin, and J. Xi (2022), Remote Sensing of the Seasonal and Interannual Variability of Surface Chlorophyll-a Concentration in the Northwest Pacific over the Past 23 Years (1997–2020), *Remote Sensing*, 14(21), doi: <https://doi.org/10.3390/rs14215611>.
- Chen, W., Y. Zhang, Y. Liu, L. Ma, H. Wang, K. Ren, and S. Chen (2022), Parametric Model for Eddies-Induced Sound Speed Anomaly in Five Active Mesoscale Eddy Regions, *Journal of Geophysical Research: Oceans*, 127(8), e2022JC018408, doi: <https://doi.org/10.1029/2022JC018408>.
- Chen, X., C. Wang, H. Li, and Y. He (2022), Improving the Reconstruction of Vertical Temperature Profiles on Account of Oceanic Front Impacts, *Remote Sensing*, 14(19), 4821, doi: <https://doi.org/10.3390/rs14194821>.
- Chen, X., C. Wang, H. Li, D. Hu, C. Chen, and Y. He (2022), Impact of ocean fronts on the reconstruction of vertical temperature profiles from sea surface measurements, *Deep Sea Research Part I: Oceanographic Research Papers*, 187, 103833, doi: <https://doi.org/10.1016/j.dsr.2022.103833>.
- Chen, Y., Z. Shen, and Y. Tang (2022), On Oceanic Initial State Errors in the Ensemble Data Assimilation for a Coupled General Circulation Model, *Journal of Advances in Modeling Earth Systems*, 14(12), e2022MS003106, doi: <https://doi.org/10.1029/2022MS003106>.
- Chen, Y., S. Speich, and R. Laxenaire (2022), Formation and Transport of the South Atlantic Subtropical Mode Water in Eddy-Permitting Observations, *Journal of Geophysical Research: Oceans*, 127(1), e2021JC017767, doi: <https://doi.org/10.1029/2021JC017767>.
- Chen, Z., R. Jin, Q. Li, G. Zhao, C. Xiao, Z. Lei, and Y. Huang (2022), Joint Inversion Algorithm of Sea Surface Temperature From Microwave and Infrared Brightness Temperature, *IEEE Trans. Geosci. Remote Sensing*, 60, 1-13, doi: <https://doi.org/10.1109/TGRS.2022.3168984>.
- Chenal, J., B. Meyssignac, A. Ribes, and R. Guillaume-Castel (2022), Observational Constraint on the Climate Sensitivity to Atmospheric CO₂ Concentrations Changes Derived from the 1971–2017 Global Energy Budget, *J. Clim.*, 35(14), 4469-4483, doi: <https://doi.org/10.1175/JCLI-D-21-0565.1>.
- Cheng, L., et al. (2022), Another Record: Ocean Warming Continues through 2021 despite La Niña Conditions, *Adv. Atmos. Sci.*, 39(3), 373-385, doi: <https://doi.org/10.1007/s00376-022-1461-3>.
- Cheng, L., G. Foster, Z. Hausfather, K. E. Trenberth, and J. Abraham (2022), Improved Quantification of the Rate of Ocean Warming, *J. Clim.*, 35(14), 4827-4840, doi:

- <https://doi.org/10.1175/JCLI-D-21-0895.1>.
- Cheng, L., et al. (2022), Past and future ocean warming, *Nature Reviews Earth & Environment*, doi: <https://doi.org/10.1038/s43017-022-00345-1>.
- Cheriyian, E., A. R. Rao, and K. V. Sanilkumar (2022), Response of sea surface temperature, chlorophyll and particulate organic carbon to a tropical cyclonic storm over the Arabian Sea, Southwest India, *Dynamics of Atmospheres and Oceans*, 97, 101287, doi: <https://doi.org/10.1016/j.dynatmoce.2022.101287>.
- Chi, J., T. Qu, Y. Du, J. Qi, and P. Shi (2022), Ocean salinity indices of interannual modes in the tropical Pacific, *Climate Dynamics*, 58(1), 369-387, doi: <https://doi.org/10.1007/s00382-021-05911-9>.
- Chiswell, S. M., A. Gutiérrez-Rodríguez, M. Gall, K. Safi, R. Strzepak, M. R. Décima, and S. D. Nodder (2022), Seasonal cycles of phytoplankton and net primary production from Biogeochemical Argo float data in the south-west Pacific Ocean, *Deep Sea Research Part I: Oceanographic Research Papers*, 187, 103834, doi: <https://doi.org/10.1016/j.dsr.2022.103834>.
- Cho, W., J. Park, J. Moon, D.-H. Cha, Y.-m. Moon, H.-S. Kim, K.-j. Noh, and S.-H. Park (2022), Effects of topography and sea surface temperature anomalies on heavy rainfall induced by Typhoon Chaba in 2016, *Geosci. Lett.*, 9(1), 29, doi: <https://doi.org/10.1186/s40562-022-00230-1>.
- Chomiak, L. N., I. Yashayaev, D. L. Volkov, C. Schmid, and J. A. Hooper (2022), Inferring Advective Timescales and Overturning Pathways of the Deep Western Boundary Current in the North Atlantic Through Labrador Sea Water Advection, *Journal of Geophysical Research: Oceans*, 127(12), e2022JC018892, doi: <https://doi.org/10.1029/2022JC018892>.
- Chow, C.-H., Y.-C. Lin, W. Cheah, and J.-H. Tai (2022), Injection of High Chlorophyll-a Waters by a Branch of Kuroshio Current into the Nutrient-Poor North Pacific Subtropical Gyre, *Remote Sensing*, 14(7), 1531, doi: <https://doi.org/10.3390/rs14071531>.
- Chowdhury, K. M. A., W. Jiang, C. Bian, G. Liu, M. K. Ahmed, and S. Akhter (2022), Contributions of shortwave radiation to the formation of temperature inversions in the Bay of Bengal and eastern equatorial Indian Ocean: A modeling approach, *Acta Oceanol. Sin.*, 41(9), 19-37, doi: <https://doi.org/10.1007/s13131-022-1998-0>.
- Chowdhury, K. M. A., W. Jiang, G. Liu, M. K. Ahmed, and S. Akhter (2022), Spatiotemporal variation and mechanisms of temperature inversion in the Bay of Bengal and the eastern equatorial Indian Ocean, *Acta Oceanol. Sin.*, 41(4), 23-39, doi: <https://doi.org/10.1007/s13131-021-1873-4>.
- Ciliberti, S. A., et al. (2022), The Black Sea Physics Analysis and Forecasting System within the Framework of the Copernicus Marine Service, *Journal of Marine Science and Engineering*, 10(1), 48, doi: <https://doi.org/10.3390/jmse10010048>.
- Coleman, S., T. Kiffney, K. R. Tanaka, D. Morse, and D. C. Brady (2022), Meta-analysis of growth and mortality rates of net cultured sea scallops across the Northwest Atlantic, *Aquaculture*, 546, 737392, doi: <https://doi.org/10.1016/j.aquaculture.2021.737392>.
- Cooley, K. M., M. R. Fewings, J. A. Lerczak, L. W. O'Neill, and K. S. Brown (2022), Role of Sea Surface Physical Processes in Mixed-Layer Temperature Changes During Summer

- Marine Heat Waves in the Chile-Peru Current System, *Journal of Geophysical Research: Oceans*, 127(7), e2021JC018338, doi: <https://doi.org/10.1029/2021JC018338>.
- Coro, G., P. Bove, and A. Ellenbroek (2022), Habitat distribution change of commercial species in the Adriatic Sea during the COVID-19 pandemic, *Ecological Informatics*, 69, 101675, doi: <https://doi.org/10.1016/j.ecoinf.2022.101675>.
- Costa, F. B., and C. A. S. Tanajura (2022), On the impact of vertical coordinate choice for innovation when assimilating hydrographic profiles into isopycnal ocean models, *Ocean Model.*, 169, 101917, doi: <https://doi.org/10.1016/j.ocemod.2021.101917>.
- Cowan, T., M. C. Wheeler, S. Sharmila, S. Narsey, and C. de Burgh-Day (2022), Forecasting Northern Australian Summer Rainfall Bursts Using a Seasonal Prediction System, *Weather and Forecasting*, 37(1), 23-44, doi: <https://doi.org/10.1175/WAF-D-21-0046.1>.
- Cui, W., J. Yang, Y. Jia, and J. Zhang (2022), Oceanic Eddy Detection and Analysis from Satellite-Derived SSH and SST Fields in the Kuroshio Extension, *Remote Sensing*, 14(22), doi: <https://doi.org/10.3390/rs14225776>.
- Cui, W., J. Zhang, and J. Yang (2022), Seasonal variation in eddy activity and associated heat/salt transport in the Bay of Bengal based on satellite, Argo, and 3D reprocessed data, *Ocean Sci.*, 18(6), 1645-1663, doi: <https://doi.org/10.5194/os-18-1645-2022>.
- Cunjin, X., T. Zhang, Y. Xu, and F. Su (2022), An ocean current-oriented graph-based model for representing Argo trajectories, *Computers & Geosciences*, 166, 105143, doi: <https://doi.org/10.1016/j.cageo.2022.105143>.
- D'Addezio, J. M., and G. A. Jacobs (2022), Scale-Dependent Ocean Vertical Correlations in the California Current System, *Geophys. Res. Lett.*, 49(22), e2022GL100184, doi: <https://doi.org/10.1029/2022GL100184>.
- Da, N. D., and G. R. Foltz (2022), Interannual Variability and Multiyear Trends of Sea Surface Salinity in the Amazon-Orinoco Plume Region From Satellite Observations and an Ocean Reanalysis, *Journal of Geophysical Research: Oceans*, 127(5), e2021JC018366, doi: <https://doi.org/10.1029/2021JC018366>.
- Das, M., S. K. Ghosh, and S. Bandyopadhyay (2022), A Multilayered Adaptive Recurrent Incremental Network Model for Heterogeneity-Aware Prediction of Derived Remote Sensing Image Time Series, *IEEE Trans. Geosci. Remote Sensing*, 60, 1-13, doi: <https://doi.org/10.1109/LGRS.2021.3098425>.
- de Mahiques, M. M., F. J. Lobo, U. Schattner, A. López-Quirós, C. B. Rocha, R. J. S. Dias, I. Montoya-Montes, and A. C. B. Vieira (2022), Geomorphological imprint of opposing ocean bottom currents, a case study from the southeastern Brazilian Atlantic margin, *Marine Geology*, 444, 106715, doi: <https://doi.org/10.1016/j.margeo.2021.106715>.
- de Rosnay, P., et al. (2022), Coupled data assimilation at ECMWF: current status, challenges and future developments, *Q. J. R. Meteorol. Soc.*, 148(747), 2672-2702, doi: <https://doi.org/10.1002/qj.4330>.
- de Toma, V., V. Artale, and C. Yang (2022), Exploring AMOC Regime Change over the Past Four Decades through Ocean Reanalyses, *Climate*, 10(4), 59, doi: <https://doi.org/10.3390/cli10040059>.
- Demyshev, S. G., and O. A. Dymova (2022), Analysis of the annual mean energy cycle of the

- Black Sea circulation for the climatic, basin-scale and eddy regimes, *Ocean Dyn.*, 72(3), 259-278, doi: <https://doi.org/10.1007/s10236-022-01504-0>.
- Demyshev, S. G., N. V. Markova, and O. A. Dymova (2022), Study of Undercurrents in the Black Sea Northeastern Part by Using Numerical Simulation and Observation Data, in *Processes in GeoMedia—Volume V*, edited by T. Chaplina, pp. 93-100, Springer International Publishing, Cham, doi: https://doi.org/10.1007/978-3-030-85851-3_11.
- Desbruyères, D. G., E. P. Bravo, V. Thierry, H. Mercier, P. Lherminier, C. Cabanes, T. C. Biló, N. Fried, and M. Femke De Jong (2022), Warming-to-Cooling Reversal of Overflow-Derived Water Masses in the Irminger Sea During 2002–2021, *Geophys. Res. Lett.*, 49(10), e2022GL098057, doi: <https://doi.org/10.1029/2022GL098057>.
- Dever, M., B. Owens, C. Richards, S. Wijffels, A. Wong, I. Shkvorets, M. Halverson, and G. Johnson (2022), Static and Dynamic Performance of the RBRargo3 CTD, *J. Atmos. Ocean. Technol.*, 39(10), 1525-1539, doi: <https://doi.org/10.1175/JTECH-D-21-0186.1>.
- Di Biagio, V., S. Salon, L. Feudale, and G. Cossarini (2022), Subsurface oxygen maximum in oligotrophic marine ecosystems: mapping the interaction between physical and biogeochemical processes, *Biogeosciences*, 19(23), 5553-5574, doi: <https://doi.org/10.5194/bg-19-5553-2022>.
- Ding, M., et al. (2022), A century-long eddy-resolving simulation of global oceanic large- and mesoscale state, *Scientific Data*, 9(1), 691, doi: <https://doi.org/10.1038/s41597-022-01766-9>.
- Ding, W., C. Zhang, and S. Shang (2022), The early assessment of harmful algal bloom risk in the East China Sea, *Marine Pollution Bulletin*, 178, 113567, doi: <https://doi.org/10.1016/j.marpolbul.2022.113567>.
- Ding, X., J. Liu, H. Zhang, Z. Ke, J. Li, W. Liu, K. Li, C. Zhao, and Y. Tan (2022), Phytoplankton Community Patterns in the Northeastern South China Sea: Implications of Intensified Kuroshio Intrusion During the 2015/16 El Niño, *Journal of Geophysical Research: Oceans*, 127(2), e2021JC017998, doi: <https://doi.org/10.1029/2021JC017998>.
- Ding, Y., L. Xu, S.-P. Xie, H. Sasaki, Z. Zhang, H. Cao, and Y. Zhang (2022), Submesoscale Frontal Instabilities Modulate Large-Scale Distribution of the Winter Deep Mixed Layer in the Kuroshio-Oyashio Extension, *Journal of Geophysical Research: Oceans*, 127(12), e2022JC018915, doi: <https://doi.org/10.1029/2022JC018915>.
- Ding, Y.-n., F. Yu, Q. Ren, F. Nan, R. Wang, Y. Liu, and Y. Tang (2022), The Physical-Biogeochemical Responses to a Subsurface Anticyclonic Eddy in the Northwest Pacific, *Frontiers in Marine Science*, 8, doi: <https://doi.org/10.3389/fmars.2021.766544>.
- Doi, T., and S. Behera (2022), Impacts of Interannual Variations of Chlorophyll on Seasonal Predictions of the Tropical Pacific, *Frontiers in Climate*, 4, doi: <https://doi.org/10.3389/fclim.2022.868594>.
- Doi, T., M. Nonaka, and S. Behera (2022), Can signal-to-noise ratio indicate prediction skill? Based on skill assessment of 1-month lead prediction of monthly temperature anomaly over Japan, *Frontiers in Climate*, 4, doi: <https://doi.org/10.3389/fclim.2022.887782>.
- Dong, C., et al. (2022), The near-global ocean mesoscale eddy atmospheric-oceanic-biological interaction observational dataset, *Scientific Data*,

- 9(1), 436, doi: <https://doi.org/10.1038/s41597-022-01550-9>.
- Dong, H., M. Zhou, W. O. Smith, B. Li, Z. Hu, S. L. Basedow, F. Gaardsted, Z. Zhang, and Y. Zhong (2022), Dynamical Controls of the Eastward Transport of Overwintering *Calanus finmarchicus* From the Lofoten Basin to the Continental Slope, *Journal of Geophysical Research: Oceans*, 127(9), e2022JC018909, doi: <https://doi.org/10.1029/2022JC018909>.
- Dong, J., Z. Jing, B. Fox-Kemper, Y. Wang, H. Cao, and C. Dong (2022), Effects of symmetric instability in the Kuroshio Extension region in winter, *Deep Sea Research Part II: Topical Studies in Oceanography*, 202, 105142, doi: <https://doi.org/10.1016/j.dsr2.2022.105142>.
- Dong, L., J. Qi, B. Yin, H. Zhi, D. Li, S. Yang, W. Wang, H. Cai, and B. Xie (2022), Reconstruction of Subsurface Salinity Structure in the South China Sea Using Satellite Observations: A LightGBM-Based Deep Forest Method, *Remote Sensing*, 14(14), 3494, doi: <https://doi.org/10.3390/rs14143494>.
- Dossa, A. N., A. C. da Silva, F. Hernandez, H. M. A. Aguedjou, A. Chaigneau, M. Araujo, and A. Bertrand (2022), Mesoscale eddies in the southwestern tropical Atlantic, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.886617>.
- Dove, L. A., D. Balwada, A. F. Thompson, and A. R. Gray (2022), Enhanced Ventilation in Energetic Regions of the Antarctic Circumpolar Current, *Geophys. Res. Lett.*, 49(13), e2021GL097574, doi: <https://doi.org/10.1029/2021GL097574>.
- Drago, L., et al. (2022), Global Distribution of Zooplankton Biomass Estimated by In Situ Imaging and Machine Learning, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.894372>.
- Drew, Y., S. Stilian, and H. Tailen (2022), A functional-data approach to the Argo data, *The Annals of Applied Statistics*, 16(1), 216-246, doi: <https://doi.org/10.1214/21-AOAS1477>.
- Drouin, K. L., M. S. Lozier, F. J. Beron-Vera, P. Miron, and M. J. Olascoaga (2022), Surface Pathways Connecting the South and North Atlantic Oceans, *Geophys. Res. Lett.*, 49(1), e2021GL096646, doi: <https://doi.org/10.1029/2021GL096646>.
- du Plessis, M. D., S. Swart, L. C. Biddle, I. S. Giddy, P. M. S. Monteiro, C. J. C. Reason, A. F. Thompson, and S. A. Nicholson (2022), The Daily-Resolved Southern Ocean Mixed Layer: Regional Contrasts Assessed Using Glider Observations, *Journal of Geophysical Research: Oceans*, 127(4), e2021JC017760, doi: <https://doi.org/10.1029/2021JC017760>.
- Du, Y., M. Feng, Z. Xu, B. Yin, and A. J. Hobday (2022), Summer Marine Heatwaves in the Kuroshio-Oyashio Extension Region, *Remote Sensing*, 14(13), 2980, doi: <https://doi.org/10.3390/rs14132980>.
- Emerson, S., and B. Yang (2022), The Ocean's Biological Pump: In Situ Oxygen Measurements in the Subtropical Oceans, *Geophys. Res. Lett.*, 49(21), e2022GL099834, doi: <https://doi.org/10.1029/2022GL099834>.
- Falco, P., P. Castagno, Y. Cotroneo, G. Aulicino, G. Budillon, P. De Ruggiero, G. Fusco, and E. Zambianchi (2022), Measurements for Oceanography, in *Measurement for the Sea: Supporting the Marine Environment and the Blue Economy*, edited by P. Daponte, G. B. Rossi and V. Piscopo, pp. 51-81, Springer International Publishing, Cham, doi:

- https://doi.org/10.1007/978-3-030-82024-4_3.
- Falls, M., R. Bernardello, M. Castrillo, M. Acosta, J. Llord, and M. Galí (2022), Use of genetic algorithms for ocean model parameter optimisation: a case study using PISCES-v2_RC for North Atlantic particulate organic carbon, *Geosci. Model Dev.*, 15(14), 5713-5737, doi: <https://doi.org/10.5194/gmd-15-5713-2022>.
- Fedele, G., E. Mauri, G. Notarstefano, and P. M. Poulain (2022), Characterization of the Atlantic Water and Levantine Intermediate Water in the Mediterranean Sea using 20 years of Argo data, *Ocean Sci.*, 18(1), 129-142, doi: <https://doi.org/10.5194/os-18-129-2022>.
- Feng, Y., B. J. Bethel, C. Dong, H. Zhao, Y. Yao, and Y. Yu (2022), Marine heatwave events near Weizhou Island, Beibu Gulf in 2020 and their possible relations to coral bleaching, *Science of The Total Environment*, 823, 153414, doi: <https://doi.org/10.1016/j.scitotenv.2022.153414>.
- Fennel, K., J. P. Mattern, S. C. Doney, L. Bopp, A. M. Moore, B. Wang, and L. Yu (2022), Ocean biogeochemical modelling, *Nature Reviews Methods Primers*, 2(1), 76, doi: <https://doi.org/10.1038/s43586-022-00154-2>.
- Fernández Castro, B., M. Mazloff, R. G. Williams, and A. C. Naveira Garabato (2022), Subtropical Contribution to Sub-Antarctic Mode Waters, *Geophys. Res. Lett.*, 49(11), e2021GL097560, doi: <https://doi.org/10.1029/2021GL097560>.
- Fernandez, D., M. Bowen, and P. Sutton (2022), South Pacific Ocean Dynamics Redistribute Ocean Heat Content and Modulate Heat Exchange With the Atmosphere, *Geophys. Res. Lett.*, 49(23), e2022GL100965, doi: <https://doi.org/10.1029/2022GL100965>.
- Ferreira, A., J. Dias, V. Brotas, and A. C. Brito (2022), A perfect storm: An anomalous offshore phytoplankton bloom event in the NE Atlantic (March 2009), *Science of The Total Environment*, 806, 151253, doi: <https://doi.org/10.1016/j.scitotenv.2021.151253>.
- Feucher, C., E. Portela, N. Kolodziejczyk, and V. Thierry (2022), Subpolar gyre decadal variability explains the recent oxygenation in the Irminger Sea, *Communications Earth & Environment*, 3(1), 279, doi: <https://doi.org/10.1038/s43247-022-00570-y>.
- Finocchio, P. M., J. D. Doyle, and D. P. Stern (2022), Accelerated Sea Ice Loss from Late Summer Cyclones in the New Arctic, *J. Clim.*, 35(23), 4151-4169, doi: <https://doi.org/10.1175/JCLI-D-22-0315.1>.
- Finucane, G., and S. Hautala (2022), Transport of Antarctic Bottom Water Entering the Brazil Basin in a Planetary Geostrophic Inverse Model, *Geophys. Res. Lett.*, 49(22), e2022GL100121, doi: <https://doi.org/10.1029/2022GL100121>.
- Fourrier, M., L. Coppola, F. D'Ortenzio, C. Migon, and J.-P. Gattuso (2022), Impact of Intermittent Convection in the Northwestern Mediterranean Sea on Oxygen Content, Nutrients, and the Carbonate System, *Journal of Geophysical Research: Oceans*, 127(9), e2022JC018615, doi: <https://doi.org/10.1029/2022JC018615>.
- Fox-Kemper, B., L. Johnson, and F. Qiao (2022), Chapter 4 - Ocean near-surface layers, in *Ocean Mixing*, edited by M. Meredith and A. Naveira Garabato, pp. 65-94, Elsevier, doi: <https://doi.org/10.1016/B978-0-12-821512-8.00011-6>.
- Frajka-Williams, E., J. A. Brearley, J. D. Nash, and C. B. Whalen (2022), Chapter 14 - New technological frontiers in ocean mixing, in *Ocean Mixing*, edited by M. Meredith and A. Naveira Garabato, pp. 345-361, Elsevier, doi:

- <https://doi.org/10.1016/B978-0-12-821512-8.00021-9>.
- Fu, Y., P. Brandt, F. P. Tuchen, J. F. Lübbecke, and C. Wang (2022), Representation of the Mean Atlantic Subtropical Cells in CMIP6 Models, *Journal of Geophysical Research: Oceans*, 127(3), e2021JC018191, doi: <https://doi.org/10.1029/2021JC018191>.
- Fujiki, T., S. Hosoda, and N. Harada (2022), Phytoplankton blooms in summer and autumn in the northwestern subarctic Pacific detected by the mooring and float systems, *J. Oceanogr.*, 78(2), 63-72, doi: <https://doi.org/10.1007/s10872-021-00628-z>.
- Galí, M., M. Falls, H. Claustre, O. Aumont, and R. Bernardello (2022), Bridging the gaps between particulate backscattering measurements and modeled particulate organic carbon in the ocean, *Biogeosciences*, 19(4), 1245-1275, doi: <https://doi.org/10.5194/bg-19-1245-2022>.
- Gao, C., M. Chen, L. Zhou, L. Feng, and R.-H. Zhang (2022), The 2020–2021 prolonged La Niña evolution in the tropical Pacific, *Sci. China Earth Sci.*, 65(12), 2248-2266, doi: <https://doi.org/10.1007/s11430-022-9985-4>.
- Gao, C., and L. Zhou (2022), Tropical cyclone genesis over the western North Pacific simulated by Coupled Model Intercomparison Project Phase 6 models, *Acta Oceanol. Sin.*, 41(5), 64-77, doi: <https://doi.org/10.1007/s13131-021-1860-9>.
- Gao, C., L. Zhou, C. Wang, I. I. Lin, and R. Murtugudde (2022), Unexpected limitation of tropical cyclone genesis by subsurface tropical central-north Pacific during El Niño, *Nature Communications*, 13(1), 7746, doi: <https://doi.org/10.1038/s41467-022-35530-9>.
- Gao, G., D. Yang, L. Xu, K. Zhang, X. Feng, and B. Yin (2022), A Biological-Parameter-Optimized Modeling Study of Physical Drivers Controlling Seasonal Chlorophyll Blooms off the Southern Coast of Java Island, *Journal of Geophysical Research: Oceans*, 127(11), e2022JC018835, doi: <https://doi.org/10.1029/2022JC018835>.
- Gao, S., S. Han, S. Wang, D. Wu, M. Wang, K. Wu, and L. Liu (2022), The Influence of Typhoon 'Hongxia' on the Intrusion of the Kuroshio Current into the South China Sea, *Journal of Ocean University of China*, doi: <https://doi.org/10.1007/s11802-023-5166-8>.
- Gao, W., Z. Wang, and H. Huang (2022), Variations of the Eco-Hydro-Climatic Environment Response to the 2015/2016 Super El Niño Event in the Mindanao Dome Upwelling System, *Journal of Ocean University of China*, 21(1), 69-80, doi: <https://doi.org/10.1007/s11802-022-4695-x>.
- Gao, Z., Y. Jiang, J. He, J. Wu, and G. Christakos (2022), Bayesian maximum entropy interpolation of sea surface temperature data: A comparative assessment, *Int. J. Remote Sens.*, 43(1), 148-166, doi: <https://doi.org/10.1080/01431161.2021.2003905>.
- García-Jové, M., B. Moure, N. D. Zarokanellos, P. F. J. Lermusiaux, D. L. Rudnick, and J. Tintoré (2022), Frontal Dynamics in the Alboran Sea: 2. Processes for Vertical Velocities Development, *Journal of Geophysical Research: Oceans*, 127(3), e2021JC017428, doi: <https://doi.org/10.1029/2021JC017428>.
- Geoffroy, G., and J. Nycander (2022), Global Mapping of the Nonstationary Semidiurnal Internal Tide Using Argo Data, *Journal of Geophysical Research: Oceans*, 127(4), e2021JC018283, doi: <https://doi.org/10.1029/2021JC018283>.

- George, J. V., R. K. Naik, N. Anilkumar, P. Sabu, S. M. Patil, and R. K. Mishra (2022), Physical control on the inter-annual variability of summer dissolved nutrient concentration and phytoplankton biomass in the Indian sector of the Southern Ocean, *Oceanologia*, 64(4), 675-693, doi: <https://doi.org/10.1016/j.oceano.2022.06.003>.
- Gillard, L. C., C. Pennelly, H. L. Johnson, and P. G. Myers (2022), The Effects of Atmospheric and Lateral Buoyancy Fluxes on Labrador Sea Mixed Layer Depth, *Ocean Model.*, 171, 101974, doi: <https://doi.org/10.1016/j.ocemod.2022.101974>.
- Girishkumar, M. S. (2022), Surface chlorophyll blooms in the Southern Bay of Bengal during the extreme positive Indian Ocean dipole, *Climate Dynamics*, 59(5), 1505-1519, doi: <https://doi.org/10.1007/s00382-021-06050-x>.
- Gloege, L., M. Yan, T. Zheng, and G. A. McKinley (2022), Improved Quantification of Ocean Carbon Uptake by Using Machine Learning to Merge Global Models and pCO₂ Data, *Journal of Advances in Modeling Earth Systems*, 14(2), e2021MS002620, doi: <https://doi.org/10.1029/2021MS002620>.
- Gouretski, V., L. Cheng, and T. Boyer (2022), On the Consistency of the Bottle and CTD Profile Data, *J. Atmos. Ocean. Technol.*, 39(12), 1869-1887, doi: <https://doi.org/10.1175/JTECH-D-22-0004.1>.
- Grodsky, S. A., N. Reul, A. Bentamy, and D. Vandemark (2022), Eastward propagating surface salinity anomalies in the tropical North Atlantic, *Remote Sensing Letters*, 13(4), 334-342, doi: <https://doi.org/10.1080/2150704X.2022.2032452>.
- Gu, C., J. Qi, Y. Zhao, W. Yin, and S. Zhu (2022), Estimation of the Mixed Layer Depth in the Indian Ocean from Surface Parameters: A Clustering-Neural Network Method, *Sensors*, 22(15), 5600, doi: <https://doi.org/10.3390/s22155600>.
- Guan, C., F. Tian, M. J. McPhaden, F. Wang, S. Hu, and R.-H. Zhang (2022), Zonal Structure of Tropical Pacific Surface Salinity Anomalies Affects ENSO Intensity and Asymmetry, *Geophys. Res. Lett.*, 49(1), e2021GL096197, doi: <https://doi.org/10.1029/2021GL096197>.
- Gunn, K. L., K. McMonigal, L. M. Beal, and S. Elipot (2022), Decadal and Intra-Annual Variability of the Indian Ocean Freshwater Budget, *J. Phys. Oceanogr.*, 52(10), 2361-2376, doi: <https://doi.org/10.1175/JPO-D-22-0057.1>.
- Guo, M., P. Xiu, and X. Xing (2022), Oceanic Fronts Structure Phytoplankton Distributions in the Central South Indian Ocean, *Journal of Geophysical Research: Oceans*, 127(1), e2021JC017594, doi: <https://doi.org/10.1029/2021JC017594>.
- Guo, Y., and S. P. Bishop (2022), Surface Divergent Eddy Heat Fluxes and Their Impacts on Mixed Layer Eddy-Mean Flow Interactions, *Journal of Advances in Modeling Earth Systems*, 14(4), e2021MS002863, doi: <https://doi.org/10.1029/2021MS002863>.
- Hall, K., A. Daley, S. Whitehall, S. Sandiford, and C. L. Gentemann (2022), Validating Salinity from SMAP and HYCOM Data with Saildrone Data during EUREC4A-OA/ATOMIC, *Remote Sensing*, 14(14), 3375, doi: <https://doi.org/10.3390/rs14143375>.
- Hall, S. B., B. Subrahmanyam, and J. H. Morison (2022), Intercomparison of Salinity Products in the Beaufort Gyre and Arctic Ocean, *Remote Sensing*, 14(1), 71, doi: <https://doi.org/10.3390/rs14010071>.
- Harrison, M., A. Adcroft, R. Hallberg, and O. Sergienko (2022), Improved Surface Mass Balance Closure in Ocean Hindcast Simulations, *Journal of Advances in Modeling*

- Earth Systems*, 14(7), e2021MS002888, doi: <https://doi.org/10.1029/2021MS002888>.
- He, Y., J. Wang, F. Wang, and T. Hibiya (2022), Spatial distribution of turbulent diapycnal mixing along the Mindanao current inferred from rapid-sampling Argo floats, *J. Oceanogr.*, 78(1), 35-48, doi: <https://doi.org/10.1007/s10872-021-00624-3>.
- He, Z., D. Yang, Y. Wang, and B. Yin (2022), Impact of 4D-Var data assimilation on modelling of the East China Sea dynamics, *Ocean Model.*, 176, 102044, doi: <https://doi.org/10.1016/j.ocemod.2022.102044>.
- Herraiz-Borreguero, L., and A. C. Naveira Garabato (2022), Poleward shift of Circumpolar Deep Water threatens the East Antarctic Ice Sheet, *Nature Climate Change*, 12(8), 728-734, doi: <https://doi.org/10.1038/s41558-022-01424-3>.
- Herron, A. J., S. M. Bohman, and A. L. Gordon (2022), Freshwater transport by eddies within the Bay of Bengal's central axis, *Deep Sea Research Part I: Oceanographic Research Papers*, 185, 103770, doi: <https://doi.org/10.1016/j.dsr.2022.103770>.
- Heuzé, C., S. G. Purkey, and G. C. Johnson (2022), It is high time we monitor the deep ocean, *Environmental Research Letters*, 17(12), 121002, doi: <https://dx.doi.org/10.1088/1748-9326/aca622>.
- Heye, S., M. Krug, P. Penven, and M. Hart-Davis (2022), The Natal Bight Coastal Counter-Current: A modeling study, *Cont. Shelf Res.*, 249, 104852, doi: <https://doi.org/10.1016/j.csr.2022.104852>.
- Hitt, N. T., D. J. Sinclair, H. L. Neil, S. J. Fallon, A. Komugabe-Dixson, D. Fernandez, P. J. Sutton, and J. C. Hellstrom (2022), Natural cycles in South Pacific Gyre strength and the Southern Annular Mode, *Scientific Reports*, 12(1), 18090, doi: <https://doi.org/10.1038/s41598-022-22184-2>.
- Hodges, S., K. E. Erikstad, and T. K. Reiertsen (2022), Predicting the foraging patterns of wintering Auks using a sea surface temperature model for the Barents Sea, *Ecological Solutions and Evidence*, 3(4), e12181, doi: <https://doi.org/10.1002/2688-8319.12181>.
- Holbrook, N. J., V. Hernaman, S. Koshiya, J. Lako, J. B. Kajtar, P. Amosa, and A. Singh (2022), Impacts of marine heatwaves on tropical western and central Pacific Island nations and their communities, *Glob. Planet. Change*, 208, 103680, doi: <https://doi.org/10.1016/j.gloplacha.2021.103680>.
- Holland, L. P., A. A. Rowden, J. S. Hamilton, M. R. Clark, S. M. Chiswell, and J. P. A. Gardner (2022), Regional-scale genetic differentiation of the stony coral *Desmophyllum dianthus* in the southwest Pacific Ocean is consistent with regional-scale physico-chemical oceanography, *Deep Sea Research Part I: Oceanographic Research Papers*, 183, 103739, doi: <https://doi.org/10.1016/j.dsr.2022.103739>.
- Holmes, R. M., T. Sohail, and J. D. Zika (2022), Adiabatic and Diabatic Signatures of Ocean Temperature Variability, *J. Clim.*, 35(5), 1459-1477, doi: <https://doi.org/10.1175/JCLI-D-21-0695.1>.
- Holser, R. R., T. R. Keates, D. P. Costa, and C. A. Edwards (2022), Extent and Magnitude of Subsurface Anomalies During the Northeast Pacific Blob as Measured by Animal-Borne Sensors, *Journal of Geophysical Research: Oceans*, 127(7), e2021JC018356, doi: <https://doi.org/10.1029/2021JC018356>.
- Horvat, C., K. Bisson, S. Seabrook, A. Cristi, and L. C. Matthes (2022), Evidence of

- phytoplankton blooms under Antarctic sea ice, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.942799>.
- Horwath, M., et al. (2022), Global sea-level budget and ocean-mass budget, with a focus on advanced data products and uncertainty characterisation, *Earth Syst. Sci. Data*, 14(2), 411-447, doi: <https://doi.org/10.5194/essd-14-411-2022>.
- Hsu, P.-C. (2022), Evaluation of Wind and Solar Insolation Influence on Ocean Near-Surface Temperature from In Situ Observations and the Geostationary Himawari-8 Satellite, *Remote Sensing*, 14(19), 4975, doi: <https://doi.org/10.3390/rs14194975>.
- Hu, H., W. Chen, X.-Q. Yang, Y. Zhao, H. Bai, and K. Mao (2022), The Mode-Water-Induced Interannual Variation of the North Pacific Subtropical Countercurrent and the Corresponding Winter Atmospheric Anomalies, *Geophys. Res. Lett.*, 49(21), e2022GL100968, doi: <https://doi.org/10.1029/2022GL100968>.
- Hu, Q., X. Chen, X. He, Y. Bai, Q. Zhong, F. Gong, Q. Zhu, and D. Pan (2022), Seasonal Variability of Phytoplankton Biomass Revealed by Satellite and BGC-Argo Data in the Central Tropical Indian Ocean, *Journal of Geophysical Research: Oceans*, 127(10), e2021JC018227, doi: <https://doi.org/10.1029/2021JC018227>.
- Hu, R., Z. Li, and D. Wu (2022), A comparative analysis of the mesoscale thermohaline features across subarctic frontal zones in the Northern Hemisphere, *Deep Sea Research Part I: Oceanographic Research Papers*, 103902, doi: <https://doi.org/10.1016/j.dsr.2022.103902>.
- Hu, R., and J. Zhao (2022), Sea surface salinity variability in the western subpolar North Atlantic based on satellite observations, *Remote Sens. Environ.*, 281, 113257, doi: <https://doi.org/10.1016/j.rse.2022.113257>.
- Hu, Y., W. Shao, J. Li, C. Zhang, L. Cheng, and Q. Ji (2022), Short-Term Variations in Water Temperature of the Antarctic Surface Layer, *Journal of Marine Science and Engineering*, 10(2), 287, doi: <https://doi.org/10.3390/jmse10020287>.
- Hu, Z., X. Ma, Y. Peng, D. Tian, Q. Meng, D. Zeng, Z. Liu, B. Zhou, H. Li, and F. Zhou (2022), A Large Subsurface Anticyclonic Eddy in the Eastern Equatorial Indian Ocean, *Journal of Geophysical Research: Oceans*, 127(3), e2021JC018130, doi: <https://doi.org/10.1029/2021JC018130>.
- Hu, Z.-Z., Y. Xue, B. Huang, A. Kumar, C. Wen, P. Xie, J. Zhu, P. J. Pegion, L. Ren, and W. Wang (2022), Global Ocean Monitoring and Prediction at NOAA Climate Prediction Center: 15 Years of Operations, *Bull. Amer. Meteorol. Soc.*, 103(12), E2701-E2718, doi: <https://doi.org/10.1175/BAMS-D-22-0056.1>.
- Huang, B., L. Ge, X. Chen, and G. Chen (2022), Vertical Structure-Based Classification of Oceanic Eddy Using 3-D Convolutional Neural Network, *IEEE Trans. Geosci. Remote Sensing*, 60, 1-14, doi: <https://doi.org/10.1109/TGRS.2021.3103251>.
- Huang, C., Y. Liu, Y. Luo, Y. Wang, X. Liu, Y. Zhang, Y. Zhuang, and Y. Tian (2022), Improvement and Assessment of Ocean Color Algorithms in the Northwest Pacific Fishing Ground Using Himawari-8, MODIS-Aqua, and VIIRS-SNPP, *Remote Sensing*, 14(15), 3610, doi: <https://doi.org/10.3390/rs14153610>.
- Huang, K., et al. (2022), Leading-Mode Connections of the Interannual Variability in Upper-Ocean Salinity in the Tropical Indian Ocean, *J. Phys. Oceanogr.*, 52(12), 3309-3329, doi: <https://doi.org/10.1175/JPO-D-21-0267.1>.

- Huang, L., W. Zhuang, Z. Wu, L. Meng, D. Edwing, K. Edwing, L. Wang, and X.-H. Yan (2022), Decadal Cooling Events in the South Indian Ocean During the Argo Era, *Journal of Geophysical Research: Oceans*, 127(9), e2021JC017949, doi: <https://doi.org/10.1029/2021JC017949>.
- Huang, X., S. Huang, W. Zhao, Z. Zhang, C. Zhou, and J. Tian (2022), Temporal variability of internal solitary waves in the northern South China Sea revealed by long-term mooring observations, *Prog. Oceanogr.*, 201, 102716, doi: <https://doi.org/10.1016/j.pocean.2021.102716>.
- Huang, Y., A. J. Fassbender, J. S. Long, S. Johannessen, and M. Bernardi Bif (2022), Partitioning the Export of Distinct Biogenic Carbon Pools in the Northeast Pacific Ocean Using a Biogeochemical Profiling Float, *Glob. Biogeochem. Cycle*, 36(2), e2021GB007178, doi: <https://doi.org/10.1029/2021GB007178>.
- Huguenin, M. F., R. M. Holmes, and M. H. England (2022), Drivers and distribution of global ocean heat uptake over the last half century, *Nature Communications*, 13(1), 4921, doi: <https://doi.org/10.1038/s41467-022-32540-5>.
- Huntley, H. S., M. Berta, G. Esposito, A. Griffa, B. Mourre, and L. Centurioni (2022), Conditions for Reliable Divergence Estimates from Drifter Triplets, *J. Atmos. Ocean. Technol.*, 39(10), 1499-1523, doi: <https://doi.org/10.1175/JTECH-D-21-0161.1>.
- Huthnance, J., et al. (2022), Ocean shelf exchange, NW European shelf seas: Measurements, estimates and comparisons, *Prog. Oceanogr.*, 202, 102760, doi: <https://doi.org/10.1016/j.pocean.2022.102760>.
- Ienna, F., I. Bashmachnikov, and J. Dias (2022), Meddies and Their Sea Surface Expressions: Observations and Theory, *J. Phys. Oceanogr.*, 52(11), 2643-2656, doi: <https://doi.org/10.1175/JPO-D-22-0081.1>.
- Ioannou, A., S. Speich, and R. Laxenaire (2022), Characterizing Mesoscale Eddies of Eastern Upwelling Origins in the Atlantic Ocean and Their Role in Offshore Transport, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.835260>.
- Iskandar, M. R., M. R. Cordova, and Y.-G. Park (2022), Pathways and destinations of floating marine plastic debris from 10 major rivers in Java and Bali, Indonesia: A Lagrangian particle tracking perspective, *Marine Pollution Bulletin*, 185, 114331, doi: <https://doi.org/10.1016/j.marpolbul.2022.114331>.
- Iskandar, M. R., and T. Suga (2022), Change in Salinity of Indonesian Upper Water in the Southeastern Indian Ocean during Argo Period, *Heliyon*, 8(9), e10430, doi: <https://doi.org/10.1016/j.heliyon.2022.e10430>.
- Ito, T. (2022), Development of the Regional Carbon Cycle Model in the Central Pacific Sector of the Southern Ocean, *Journal of Advances in Modeling Earth Systems*, 14(6), e2021MS002757, doi: <https://doi.org/10.1029/2021MS002757>.
- Izett, R. W., L. Castro de la Guardia, M. Chanona, P. G. Myers, S. Waterman, and P. D. Tortell (2022), Impact of Vertical Mixing on Summertime Net Community Production in Canadian Arctic and Subarctic Waters: Insights From In Situ Measurements and Numerical Simulations, *Journal of Geophysical Research: Oceans*, 127(8), e2021JC018215, doi: <https://doi.org/10.1029/2021JC018215>.
- Jahanbakht, M., W. Xiang, and M. R. Azghadi (2022), Sea Surface Temperature Forecasting With Ensemble of Stacked Deep Neural Networks, *IEEE Geosci. Remote Sens. Lett.*, 19,

- 1-5, doi: <https://doi.org/10.1109/LGRS.2021.3098425>.
- Janeković, I., M. D. Rayson, N. L. Jones, P. Watson, and C. Pattiaratchi (2022), 4D-Var data assimilation using satellite sea surface temperature to improve the tidally-driven interior ocean dynamics estimates in the Indo-Australian Basin, *Ocean Model.*, *171*, 101969, doi: <https://doi.org/10.1016/j.ocemod.2022.101969>.
- Jang, E., Y. J. Kim, J. Im, Y.-G. Park, and T. Sung (2022), Global sea surface salinity via the synergistic use of SMAP satellite and HYCOM data based on machine learning, *Remote Sens. Environ.*, *273*, 112980, doi: <https://doi.org/10.1016/j.rse.2022.112980>.
- Jarugula, S. L., and M. J. McPhaden (2022), Ocean Mixed Layer Response to Two Post-Monsoon Cyclones in the Bay of Bengal in 2018, *Journal of Geophysical Research: Oceans*, *127*(9), e2022JC018874, doi: <https://doi.org/10.1029/2022JC018874>.
- Jawad, G. A. M., A. K. M. Al-Qurabat, and A. K. Idrees (2022), Maximizing the underwater wireless sensor networks' lifespan using BTC and MNP5 compression techniques, *Annals of Telecommunications*, *77*(9), 703-723, doi: <https://doi.org/10.1007/s12243-021-00903-6>.
- Jeon, J., and T. Tomita (2022), Investigating the Effects of Super Typhoon HAGIBIS in the Northwest Pacific Ocean Using Multiple Observational Data, *Remote Sensing*, *14*(22), doi: <https://doi.org/10.3390/rs14225667>.
- Ji, X., H. Yin, L. Jing, Y. Liang, and J. Wang (2022), Modeling and performance analysis of oblique underwater optical communication links considering turbulence effects based on seawater depth layering, *Opt. Express*, *30*(11), 18874-18888, doi: <https://doi.org/10.1364/OE.453918>.
- Jiang, J., J. Shi, and F. Huang (2022), Quasi-Biennial Variability of Indian Ocean Subtropical Mode Water Subduction Driven by Atmospheric Circulation Modes during the Argo Period, *J. Clim.*, *35*(13), 4085-4098, doi: <https://doi.org/10.1175/JCLI-D-21-0509.1>.
- Jiang, W., and W. You (2022), A combined denoising method of empirical mode decomposition and singular spectrum analysis applied to Jason altimeter waveforms: A case of the Caspian Sea, *Geodesy and Geodynamics*, *13*(4), 327-342, doi: <https://doi.org/10.1016/j.geog.2021.11.004>.
- Joh, Y., et al. (2022), Seasonal-to-Decadal Variability and Prediction of the Kuroshio Extension in the GFDL Coupled Ensemble Reanalysis and Forecasting System, *J. Clim.*, *35*(11), 3515-3535, doi: <https://doi.org/10.1175/JCLI-D-21-0471.1>.
- Johnson, G. C. (2022), Antarctic Bottom Water Warming and Circulation Slowdown in the Argentine Basin From Analyses of Deep Argo and Historical Shipboard Temperature Data, *Geophys. Res. Lett.*, *49*(18), e2022GL100526, doi: <https://doi.org/10.1029/2022GL100526>.
- Johnson, G. C., S. Hosoda, S. R. Jayne, P. R. Oke, S. C. Riser, D. Roemmich, T. Suga, V. Thierry, S. E. Wijffels, and J. Xu (2022), Argo—Two Decades: Global Oceanography, Revolutionized, *Annual Review of Marine Science*, *14*(1), 379-403, doi: <https://doi.org/10.1146/annurev-marine-022521-102008>.
- Johnson, G. C., and R. Lumpkin (2022), Overview. In State of the Climate in 2021, Global Oceans, *Bull. Amer. Meteorol. Soc.*, *103*(8), S143, doi: <https://doi.org/10.1175/BAMS-D-22-0072.1>.

- Johnson, G. C., J. Lyman, T. Boyer, L. Cheng, J. Gilson, M. Ishii, R. Killick, and S. G. Purkey (2022), Ocean heat content. In State of the Climate in 2021, Global Oceans, *Bull. Amer. Meteorol. Soc.*, 103(8), S153-S157, doi: <https://doi.org/10.1175/BAMS-D-22-0072.1>.
- Johnson, G. C., and J. M. Lyman (2022), GOSML: A Global Ocean Surface Mixed Layer Statistical Monthly Climatology: Means, Percentiles, Skewness, and Kurtosis, *Journal of Geophysical Research: Oceans*, 127(1), e2021JC018219, doi: <https://doi.org/10.1029/2021JC018219>.
- Johnson, G. C., J. Reagan, J. M. Lyman, T. Boyer, C. Schmid, and R. Locarnini (2022), Salinity. In State of the Climate in 2021, Global Oceans, *Bull. Amer. Meteorol. Soc.*, 103(8), S157-162, doi: <https://doi.org/10.1175/BAMS-D-22-0072.1>.
- Johnson, G. C., C. B. Whalen, S. G. Purkey, and N. Zilberman (2022), Serendipitous Internal Wave Signals in Deep Argo Data, *Geophys. Res. Lett.*, 49(7), e2022GL097900, doi: <https://doi.org/10.1029/2022GL097900>.
- Johnson, K. S., et al. (2022), Carbon to Nitrogen Uptake Ratios Observed Across the Southern Ocean by the SOCCOM Profiling Float Array, *Journal of Geophysical Research: Oceans*, 127(9), e2022JC018859, doi: <https://doi.org/10.1029/2022JC018859>.
- Johnston, T. M. S. (2022), Stirring and Mixing in the Wake of Angaur and Peleliu Islands, Palau, *Journal of Geophysical Research: Oceans*, 127(5), e2022JC018544, doi: <https://doi.org/10.1029/2022JC018544>.
- Johnston, T. M. S., and P. L. Colin (2022), Upwelling and Downwelling Driven by the North Equatorial Countercurrent and Internal Waves at Hatohobei Island and Helen Reef, Palau, *Journal of Geophysical Research: Oceans*, 127(2), e2021JC017606, doi: <https://doi.org/10.1029/2021JC017606>.
- Jonasson, O., A. Ignatov, V. Pryamitsyn, B. Petrenko, and Y. Kihai (2022), JPSS VIIRS SST Reanalysis Version 3, *Remote Sensing*, 14(14), 3476, doi: <https://doi.org/10.3390/rs14143476>.
- Ju, W.-S., Y. Zhang, and Y. Du (2022), Subsurface Cooling in the Tropical Pacific Under a Warming Climate, *Journal of Geophysical Research: Oceans*, 127(5), e2021JC018225, doi: <https://doi.org/10.1029/2021JC018225>.
- Jung, Y.-J., B.-J. Choi, K. Kwon, and S.-H. Lee (2022), Modeling surface low-salinity pools formed by heavy precipitation in the Yellow Sea, *Estuarine, Coastal and Shelf Science*, 275, 107987, doi: <https://doi.org/10.1016/j.ecss.2022.107987>.
- Jyothi, L., S. Joseph, S. P. M. Huber, and L. A. Joseph (2022), Distinct Oceanic Responses at Rapidly Intensified and Weakened Regimes of Tropical Cyclone Ockhi (2017), *Journal of Geophysical Research: Oceans*, 127(6), e2021JC018212, doi: <https://doi.org/10.1029/2021JC018212>.
- Kajtar, J. B., V. Hernaman, N. J. Holbrook, and P. Petrelli (2022), Tropical western and central Pacific marine heatwave data calculated from gridded sea surface temperature observations and CMIP6, *Data in Brief*, 40, 107694, doi: <https://doi.org/10.1016/j.dib.2021.107694>.
- Kang, K., and I.-J. Moon (2022), Sea Surface Height Changes due to the Tropical Cyclone-Induced Water Mixing in the Yellow Sea, Korea, *Frontiers in Earth Science*,

- 10, doi: <https://doi.org/10.3389/feart.2022.826582>.
- Karnauskas, K. B., and D. Giglio (2022), Argo Reveals the Scales and Provenance of Equatorial Island Upwelling Systems, *Geophys. Res. Lett.*, 49(16), e2022GL098744, doi: <https://doi.org/10.1029/2022GL098744>.
- Kaundal, M., N. J. Raju, D. Samanta, and M. K. Dash (2022), Seasonal and spatial variations in spice generation in the South Indian Ocean salinity maxima, *Ocean Dyn.*, 72(5), 313-323, doi: <https://doi.org/10.1007/s10236-022-01502-2>.
- Kawakami, Y., A. Kojima, K. Murakami, T. Nakano, and S. Sugimoto (2022), Temporal variations of net Kuroshio transport based on a repeated hydrographic section along 137°E, *Climate Dynamics*, 59(5), 1703-1713, doi: <https://doi.org/10.1007/s00382-021-06061-8>.
- Keerthi, M. G., C. J. Prend, O. Aumont, and M. Lévy (2022), Annual variations in phytoplankton biomass driven by small-scale physical processes, *Nat. Geosci.*, 15(12), 1027-1033, doi: <https://doi.org/10.1038/s41561-022-01057-3>.
- Kerry, C. G., and B. S. Powell (2022), Including Tides Improves Subtidal Prediction in a Region of Strong Surface and Internal Tides and Energetic Mesoscale Circulation, *Journal of Geophysical Research: Oceans*, 127(6), e2021JC018314, doi: <https://doi.org/10.1029/2021JC018314>.
- Ke-xin, L., and Z. Fei (2022), Effects of a freshening trend on upper-ocean stratification over the central tropical Pacific and their representation by CMIP6 models, *Deep Sea Research Part II: Topical Studies in Oceanography*, 195, 104999, doi: <https://doi.org/10.1016/j.dsr2.2021.104999>.
- Khimchenko, E., A. Ostrovskii, A. Klyuvitkin, and L. Piterbarg (2022), Seasonal Variability of Near-Inertial Internal Waves in the Deep Central Part of the Black Sea, *Journal of Marine Science and Engineering*, 10(5), 557, doi: <https://doi.org/10.3390/jmse10050557>.
- Kido, S., M. Nonaka, and Y. Miyazawa (2022), JCOPE-FGO: an eddy-resolving quasi-global ocean reanalysis product, *Ocean Dyn.*, 72(8), 599-619, doi: <https://doi.org/10.1007/s10236-022-01521-z>.
- Kiko, R., et al. (2022), A global marine particle size distribution dataset obtained with the Underwater Vision Profiler 5, *Earth Syst. Sci. Data*, 14(9), 4315-4337, doi: <https://doi.org/10.5194/essd-14-4315-2022>.
- Kim, J.-S., K.-W. Seo, J. Chen, and C. Wilson (2022), Uncertainty in GRACE/GRACE-follow on global ocean mass change estimates due to mis-modeled glacial isostatic adjustment and geocenter motion, *Scientific Reports*, 12(1), 6617, doi: <https://doi.org/10.1038/s41598-022-10628-8>.
- Koelling, J., D. Atamanchuk, J. Karstensen, P. Handmann, and D. W. R. Wallace (2022), Oxygen export to the deep ocean following Labrador Sea Water formation, *Biogeosciences*, 19(2), 437-454, doi: <https://doi.org/10.5194/bg-19-437-2022>.
- Koestner, D., D. Stramski, and R. A. Reynolds (2022), A Multivariable Empirical Algorithm for Estimating Particulate Organic Carbon Concentration in Marine Environments From Optical Backscattering and Chlorophyll-a Measurements, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.941950>.
- Kolyuchkina, G. A., et al. (2022), Benthic community structure near the margin of the oxia

- zone: A case study on the Black Sea, *J. Mar. Syst.*, 227, 103691, doi: <https://doi.org/10.1016/j.jmarsys.2021.103691>.
- Koman, G., W. E. Johns, A. Houk, L. Houpert, and F. Li (2022), Circulation and overturning in the eastern North Atlantic subpolar gyre, *Prog. Oceanogr.*, 208, 102884, doi: <https://doi.org/10.1016/j.pocean.2022.102884>.
- Koropitan, A. F., M. H. I. Khaldun, and Y. Naulita (2022), Impact of tropical Cyclone Marcus on ocean subsurface and surface layers, *Global Journal of Environmental Science and Management*, 8(3), 353-368, doi: <https://dx.doi.org/10.22034/gjesm.2022.03.05>.
- Kouketsu, S., A. Murata, and K. Arulananthan (2022), Subsurface Water Property Structures Along 80°E Under the Positive Indian Ocean Dipole Mode in December 2019, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.848756>.
- Kuang, F., J. Cha, J. Zhang, A. Pan, H. Chen, X. Zhou, C. Jing, and X. Guo (2022), Intra-seasonal variability of the abyssal currents in COMRA's contract area in the Clarion-Clipperton Zone, *Acta Oceanol. Sin.*, 41(11), 1-11, doi: <https://doi.org/10.1007/s13131-021-1945-5>.
- Kubryakov, A. A., and S. V. Stanichny (2022), Sinking velocity of small particles in the Black Sea: Vertical distribution and seasonal variability from continuous Bio-Argo measurements of backscattering, *J. Mar. Syst.*, 227, 103695, doi: <https://doi.org/10.1016/j.jmarsys.2021.103695>.
- LaBrie, R., et al. (2022), Deep ocean microbial communities produce more stable dissolved organic matter through the succession of rare prokaryotes, *Science Advances*, 8(27), eabn0035, doi: <https://www.science.org/doi/abs/10.1126/sciadv.abn0035>.
- Lamont, T., and T. Toolsee (2022), Spatial and Seasonal Variations of the Island Mass Effect at the Sub-Antarctic Prince Edward Islands Archipelago, *Remote Sensing*, 14(9), 2140, doi: <https://doi.org/10.3390/rs14092140>.
- Lazaneo, C. Z., P. H. R. Calil, A. Tandon, and I. C. A. da Silveira (2022), Submesoscale Coherent Vortices in the South Atlantic Ocean: A Pathway for Energy Dissipation, *Journal of Geophysical Research: Oceans*, 127(2), e2020JC017099, doi: <https://doi.org/10.1029/2020JC017099>.
- Lea, D. J., J. While, M. J. Martin, A. Weaver, A. Storto, and M. Chrust (2022), A new global ocean ensemble system at the Met Office: Assessing the impact of hybrid data assimilation and inflation settings, *Q. J. R. Meteorol. Soc.*, 148(745), 1996-2030, doi: <https://doi.org/10.1002/qj.4292>.
- Lee, D., et al. (2022), Variations in Phytoplankton Primary Production Driven by the Pacific Decadal Oscillation in the East/Japan Sea, *Journal of Geophysical Research: Biogeosciences*, 127(10), e2022JG007094, doi: <https://doi.org/10.1029/2022JG007094>.
- Leung, T. Y., A. S. Lawless, N. K. Nichols, D. J. Lea, and M. J. Martin (2022), The impact of hybrid oceanic data assimilation in a coupled model: A case study of a tropical cyclone, *Q. J. R. Meteorol. Soc.*, 148(746), 2410-2430, doi: <https://doi.org/10.1002/qj.4309>.
- Li, B., and J. Zhai (2022), A Novel Sound Speed Profile Prediction Method Based on the Convolutional Long-Short Term Memory Network, *Journal of Marine Science and Engineering*, 10(5), 572, doi: <https://doi.org/10.3390/jmse10050572>.

- Li, H., F. Xu, and G. Wang (2022), Global Mapping of Mesoscale Eddy Vertical Tilt, *Journal of Geophysical Research: Oceans*, 127(11), e2022JC019131, doi: <https://doi.org/10.1029/2022JC019131>.
- Li, H., F. Xu, G. Wang, and R. Shi (2022), A Multi-Layer Linear Rossby Wave Dispersion Relation for Vertical Tilt of Mesoscale Eddies, *Journal of Geophysical Research: Oceans*, 127(12), e2022JC018703, doi: <https://doi.org/10.1029/2022JC018703>.
- Li, K., G. Maze, and H. Mercier (2022), Ekman Transport as the Driver of Extreme Interannual Formation Rates of Eighteen Degree Water, *Journal of Geophysical Research: Oceans*, 127(1), e2021JC017696, doi: <https://doi.org/10.1029/2021JC017696>.
- Li, L., X. Cheng, Z. Jing, H. Cao, and T. Feng (2022), Submesoscale motions and their seasonality in the northern Bay of Bengal, *Acta Oceanol. Sin.*, 41(4), 1-13, doi: <https://doi.org/10.1007/s13131-021-1847-6>.
- Li, W.-T., J.-M. Chen, R.-S. Tseng, and T.-L. Lai (2022), Multiple Modulating Processes for Intensive Tropical Cyclone Activity Affecting Taiwan in September 2016, *Asia-Pacific Journal of Atmospheric Sciences*, 58(1), 145-157, doi: <https://doi.org/10.1007/s13143-021-00245-2>.
- Li, X., X. Cheng, J. Fei, and X. Huang (2022), A Numerical Study on the Role of Mesoscale Cold-Core Eddies in Modulating the Upper-Ocean Responses to Typhoon Trami (2018), *J. Phys. Oceanogr.*, 52(12), 3101-3122, doi: <https://doi.org/10.1175/JPO-D-22-0080.1>.
- Li, X., Z.-Z. Hu, B. Huang, and C. Stan (2022), Bulk connectivity of global SST and land precipitation variations, *Climate Dynamics*, 58(1), 195-209, doi: <https://doi.org/10.1007/s00382-021-05901-x>.
- Li, X., Z. Mao, H. Zheng, W. Zhang, D. Yuan, Y. Li, Z. Wang, and Y. Liu (2022), Process-Oriented Estimation of Chlorophyll-a Vertical Profile in the Mediterranean Sea Using MODIS and Oceanographic Float Products, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.933680>.
- Li, X., Y.-Y. Xu, D. L. Kirchman, and W.-J. Cai (2022), Carbonate Parameter Estimation and Its Application in Revealing Temporal and Spatial Variation in the South and Mid-Atlantic Bight, USA, *Journal of Geophysical Research: Oceans*, 127(7), e2022JC018811, doi: <https://doi.org/10.1029/2022JC018811>.
- Li, Y., J. A. Church, T. J. McDougall, and P. M. Barker (2022), Sensitivity of Observationally Based Estimates of Ocean Heat Content and Thermal Expansion to Vertical Interpolation Schemes, *Geophys. Res. Lett.*, 49(24), e2022GL101079, doi: <https://doi.org/10.1029/2022GL101079>.
- Li, Y., G. Ren, Q. Wang, L. Mu, and Q. Niu (2022), Marine Heatwaves in the South China Sea: Tempo-Spatial Pattern and Its Association with Large-Scale Circulation, *Remote Sensing*, 14(22), doi: <https://doi.org/10.3390/rs14225829>.
- Li, Y., X. Yin, W. Zhou, M. Lin, H. Liu, and Y. Li (2022), Performance Simulation of the Payload IMR and MICAP Onboard the Chinese Ocean Salinity Satellite, *IEEE Trans. Geosci. Remote Sensing*, 60, 1-16, doi: <https://doi.org/10.1109/TGRS.2021.3111026>.
- Li, Z., and H. Aiki (2022), The 1994 Positive Indian Ocean Dipole Event as Investigated by the Transfer Routes of Oceanic Wave Energy, *J. Phys. Oceanogr.*, 52(3), 459-473, doi: <https://doi.org/10.1175/JPO-D-21-0189.1>.

- Li, Z., S. Groeskamp, I. Cerovečki, and M. H. England (2022), The Origin and Fate of Antarctic Intermediate Water in the Southern Ocean, *J. Phys. Oceanogr.*, 52(11), 2873-2890, doi: <https://doi.org/10.1175/JPO-D-21-0221.1>.
- Liao, F., G. Gao, P. Zhan, and Y. Wang (2022), Seasonality and trend of the global upper-ocean vertical velocity over 1998–2017, *Prog. Oceanogr.*, 204, 102804, doi: <https://doi.org/10.1016/j.pocean.2022.102804>.
- Liao, F., and I. Hoteit (2022), A Comparative Study of the Argo-Era Ocean Heat Content Among Four Different Types of Data Sets, *Earth's Future*, 10(9), e2021EF002532, doi: <https://doi.org/10.1029/2021EF002532>.
- Liblik, T., G. Väli, K. Salm, J. Laanemets, M. J. Lilover, and U. Lips (2022), Quasi-steady circulation regimes in the Baltic Sea, *Ocean Sci.*, 18(3), 857-879, doi: <https://doi.org/10.5194/os-18-857-2022>.
- Lilly, L. E., B. D. Cornuelle, and M. D. Ohman (2022), Using a Lagrangian particle tracking model to evaluate impacts of El Niño-related advection on euphausiids in the southern California Current System, *Deep Sea Research Part I: Oceanographic Research Papers*, 187, 103835, doi: <https://doi.org/10.1016/j.dsr.2022.103835>.
- Lin, F., L. Zhu, B. Zhou, T. Ding, W. Jin, and C. Liang (2022), Observations of strong near-inertial currents induced by the reflection of tropical cyclone-induced near-inertial waves on the continental slope of the northern South China Sea, *Deep Sea Research Part I: Oceanographic Research Papers*, 190, 103893, doi: <https://doi.org/10.1016/j.dsr.2022.103893>.
- Lin, J., et al. (2022), Current Challenges in Climate and Weather Research and Future Directions, *Atmos.-Ocean*, 60(3-4), 506-517, doi: <https://doi.org/10.1080/07055900.2022.2079473>.
- Liu, C., D. Huo, Z. Liu, X. Wang, C. Guan, J. Qi, and F. Wang (2022), Turbulent Mixing in the Barrier Layer of the Equatorial Pacific Ocean, *Geophys. Res. Lett.*, 49(5), e2021GL097690, doi: <https://doi.org/10.1029/2021GL097690>.
- Liu, H., X. Nie, Z. Wei, and I. Richter (2022), Opposite-Sign Sea Surface Salinity Anomalies Over the Northeastern and Southwestern South Atlantic Ocean From 2010 to 2017, *Journal of Geophysical Research: Oceans*, 127(12), e2022JC019351, doi: <https://doi.org/10.1029/2022JC019351>.
- Liu, H., Z. Wei, and X. Nie (2022), Assessing the Relationship between Freshwater Flux and Sea Surface Salinity, *Remote Sensing*, 14(9), 2149, doi: <https://doi.org/10.3390/rs14092149>.
- Liu, K., S. Gao, and F. Wang (2022), Deviation of the Lagrangian particle tracing method in the evaluation of the Southern Hemisphere annual subduction rate, *Journal of Oceanology and Limnology*, 40(3), 891-906, doi: <https://doi.org/10.1007/s00343-021-1097-7>.
- Liu, L., Y. Li, and F. Wang (2022), Reduction of Equatorial Obduction by Atmospheric Intraseasonal Oscillations in the Western and Central Pacific Ocean, *Journal of Geophysical Research: Oceans*, 127(5), e2021JC017901, doi: <https://doi.org/10.1029/2021JC017901>.
- Liu, L., G. Wang, Z. Zhang, and H. Wang (2022), Effects of Drag Coefficients on Surface Heat Flux during Typhoon Kalmaegi (2014), *Adv. Atmos. Sci.*, 39(9), 1501-1518, doi:

- <https://doi.org/10.1007/s00376-022-1285-1>.
- Liu, L., and H. Xue (2022), Estimating the Ocean Interior from Satellite Observations in the Kerguelen Area (Southern Ocean): A Combined Investigation Using High-Resolution CTD Data from Animal-Borne Instruments, *J. Phys. Oceanogr.*, 52(10), 2463-2478, doi: <https://doi.org/10.1175/JPO-D-21-0183.1>.
- Liu, Y., L. Cheng, Y. Pan, Z. Tan, J. Abraham, B. Zhang, J. Zhu, and J. Song (2022), How Well Do CMIP6 and CMIP5 Models Simulate the Climatological Seasonal Variations in Ocean Salinity?, *Adv. Atmos. Sci.*, 39(10), 1650-1672, doi: <https://doi.org/10.1007/s00376-022-1381-2>.
- Liu, Y., D. G. Desbruyères, H. Mercier, and M. A. Spall (2022), Observation-Based Estimates of Eulerian-Mean Boundary Downwelling in the Western Subpolar North Atlantic, *Geophys. Res. Lett.*, 49(8), e2021GL097243, doi: <https://doi.org/10.1029/2021GL097243>.
- Liu, Y., T. Xu, J. Wang, and D. Mu (2022), Multibeam seafloor topography distortion correction based on SVP inversion, *J. Mar. Sci. Technol.*, 27(1), 467-481, doi: <https://doi.org/10.1007/s00773-021-00845-7>.
- Loeb, N. G., M. Mayer, S. Kato, J. T. Fasullo, H. Zuo, R. Senan, J. M. Lyman, G. C. Johnson, and M. Balmaseda (2022), Evaluating Twenty-Year Trends in Earth's Energy Flows From Observations and Reanalyses, *Journal of Geophysical Research: Atmospheres*, 127(12), e2022JD036686, doi: <https://doi.org/10.1029/2022JD036686>.
- Lovecchio, E., N. Gruber, M. Münnich, and I. Frenger (2022), On the Processes Sustaining Biological Production in the Offshore Propagating Eddies of the Northern Canary Upwelling System, *Journal of Geophysical Research: Oceans*, 127(2), e2021JC017691, doi: <https://doi.org/10.1029/2021JC017691>.
- Lu, Y., Y. Li, J. Duan, P. Lin, and F. Wang (2022), Multidecadal Sea Level Rise in the Southeast Indian Ocean: The Role of Ocean Salinity Change, *J. Clim.*, 35(5), 1479-1496, doi: <https://doi.org/10.1175/JCLI-D-21-0288.1>.
- Luko, C. D., F. Pereira, I. C. A. da Silveira, A. Tandon, and G. R. Flierl (2022), Effects of the seasonality of mesoscale eddies on the planktonic dynamics off eastern Brazil, *Dynamics of Atmospheres and Oceans*, 98, 101299, doi: <https://doi.org/10.1016/j.dynatmoce.2022.101299>.
- Lv, M., F. Wang, Y. Li, Z. Zhang, and Y. Zhu (2022), Structure of Sea Surface Temperature Anomaly Induced by Mesoscale Eddies in the North Pacific Ocean, *Journal of Geophysical Research: Oceans*, 127(3), e2021JC017581, doi: <https://doi.org/10.1029/2021JC017581>.
- Ma, J., S. Hu, D. Hu, C. Villanoy, Q. Wang, X. Lu, and X. Yuan (2022), Structure and Variability of the Kuroshio and Luzon Undercurrent Observed by a Mooring Array, *Journal of Geophysical Research: Oceans*, 127(2), e2021JC017754, doi: <https://doi.org/10.1029/2021JC017754>.
- Ma, X., G. Chen, Y. Li, and L. Zeng (2022), Interannual variability of sea surface chlorophyll a in the southern tropical Indian Ocean: Local versus remote forcing, *Deep Sea Research Part I: Oceanographic Research Papers*, 190, 103914, doi: <https://doi.org/10.1016/j.dsr.2022.103914>.
- Mackay, N., A. J. Watson, P. Suntharalingam, Z. Chen, and P. Landschützer (2022), Improved

- winter data coverage of the Southern Ocean CO₂ sink from extrapolation of summertime observations, *Communications Earth & Environment*, 3(1), 265, doi: <https://doi.org/10.1038/s43247-022-00592-6>.
- Mandal, S., R. D. Susanto, and B. Ramakrishnan (2022), On Investigating the Dynamical Factors Modulating Surface Chlorophyll-a Variability along the South Java Coast, *Remote Sensing*, 14(7), 1745, doi: <https://doi.org/10.3390/rs14071745>.
- Manta, G., S. Speich, M. Barreiro, R. Trinchin, C. de Mello, R. Laxenaire, and A. R. Piola (2022), Shelf Water Export at the Brazil-Malvinas Confluence Evidenced From Combined in situ and Satellite Observations, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.857594>.
- Mao, K., F. Gao, S. Zhang, and C. Liu (2022), An Information Spatial-Temporal Extension Algorithm for Shipborne Predictions Based on Deep Neural Networks with Remote Sensing Observations—Part I: Ocean Temperature, *Remote Sensing*, 14(8), 1791, doi: <https://www.mdpi.com/2072-4292/14/8/1791>.
- Mao, K., F. Gao, S. Zhang, and C. Liu (2022), An Initial Field Intelligent Correcting Algorithm for Numerical Forecasting Based on Artificial Neural Networks under the Conditions of Limited Observations: Part I—Focusing on Ocean Temperature, *Journal of Marine Science and Engineering*, 10(3), 311, doi: <https://doi.org/10.3390/jmse10030311>.
- Markova, N. V., and O. A. Dymova (2022), The Black Sea Undercurrents: Observations and Numerical Simulation Results, Springer International Publishing, Cham.
- Marlowe, C., K. Hyder, M. D. J. Sayer, and J. Kaiser (2022), Citizen scientists' dive computers resolve seasonal and interannual temperature variations in the Red Sea, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.976771>.
- Marti, F., et al. (2022), Monitoring the ocean heat content change and the Earth energy imbalance from space altimetry and space gravimetry, *Earth Syst. Sci. Data*, 14(1), 229-249, doi: <https://doi.org/10.5194/essd-14-229-2022>.
- Martínez, J., et al. (2022), Improved BEC SMOS Arctic Sea Surface Salinity product v3.1, *Earth Syst. Sci. Data*, 14(1), 307-323, doi: <https://doi.org/10.5194/essd-14-307-2022>.
- Martín-Gómez, V., E. Mohino, B. Rodríguez-Fonseca, and E. Sánchez-Gómez (2022), Understanding rainfall prediction skill over the Sahel in NMME seasonal forecast, *Climate Dynamics*, 59(9), 3113-3133, doi: <https://doi.org/10.1007/s00382-022-06263-8>.
- Martins, M. S., and D. Stammer (2022), Interannual Variability of the Congo River Plume-Induced Sea Surface Salinity, *Remote Sensing*, 14(4), 1013, doi: <https://doi.org/10.3390/rs14041013>.
- Matsumoto, K., T. Tanioka, and M. Gilchrist (2022), Sensitivity of Steady State, Deep Ocean Dissolved Organic Carbon to Surface Boundary Conditions, *Glob. Biogeochem. Cycle*, 36(1), e2021GB007102, doi: <https://doi.org/10.1029/2021GB007102>.
- Maturi, E. M., L. N. Shay, D. R. Donahue, and D. A. Byrne (2022), NOAA's operational satellite ocean heat content products, *J. Oper. Oceanogr.*, 1-10, doi: <https://doi.org/10.1080/1755876X.2022.2147701>.
- McAdam, R., S. Masina, M. Balmaseda, S. Gualdi, R. Senan, and M. Mayer (2022), Seasonal forecast skill of upper-ocean heat content in coupled high-resolution systems,

- Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-021-06101-3>.
- McGeedy, R., C. Lordan, and A. M. Power (2022), Long-term interannual variability in larval dispersal and connectivity of the Norway lobster (*Nephrops norvegicus*) around Ireland: When supply-side matters, *Fish Oceanogr.*, *31*(3), 255-270, doi: <https://doi.org/10.1111/fog.12576>.
- McKee, D. C., S. C. Doney, A. Della Penna, E. S. Boss, P. Gaube, M. J. Behrenfeld, and D. M. Glover (2022), Lagrangian and Eulerian time and length scales of mesoscale ocean chlorophyll from Bio-Argo floats and satellites, *Biogeosciences*, *19*(24), 5927-5952, doi: <https://doi.org/10.5194/bg-19-5927-2022>.
- McMonigal, K., K. L. Gunn, L. M. Beal, S. Elipot, and J. K. Willis (2022), Reduction in Meridional Heat Export Contributes to Recent Indian Ocean Warming, *J. Phys. Oceanogr.*, *52*(3), 329-345, doi: <https://doi.org/10.1175/JPO-D-21-0085.1>.
- Menaka, D., S. Gauni, G. Indiran, R. Venkatesan, and M. Arul Muthiah (2022), Development of heuristic neural network algorithm for the prognosis of underwater ocean parameters, *Marine Geophysical Research*, *43*(4), 40, doi: <https://doi.org/10.1007/s11001-022-09501-0>.
- Menaka, D., S. Gauni, G. Indiran, R. Venkatesan, and M. Arul Muthiah (2022), A Heuristic Neural Network Approach for Underwater Parametric Prediction at Bay of Bengal, *IETE Journal of Research*, 1-10, doi: <https://doi.org/10.1080/03772063.2022.2142686>.
- Meng, L., C. Yan, W. Zhuang, W. Zhang, X. Geng, and X. H. Yan (2022), Reconstructing High-Resolution Ocean Subsurface and Interior Temperature and Salinity Anomalies From Satellite Observations, *IEEE Trans. Geosci. Remote Sensing*, *60*, 1-14, doi: <https://doi.org/10.1109/TGRS.2021.3109979>.
- Meng, X., F. Yao, J. Zhang, Q. Liu, Q. Liu, L. Shi, and D. Zhang (2022), Impact of dust deposition on phytoplankton biomass in the Northwestern Pacific: A long-term study from 1998 to 2020, *Science of The Total Environment*, *813*, 152536, doi: <https://doi.org/10.1016/j.scitotenv.2021.152536>.
- Meng, Z., L. Zhou, R. Murtugudde, Q. Yang, K. Pujiana, and J. Xi (2022), Tropical oceanic intraseasonal variabilities associated with central Indian Ocean mode, *Climate Dynamics*, *58*(3), 1107-1126, doi: <https://doi.org/10.1007/s00382-021-05951-1>.
- Menna, M., M. Gačić, R. Martellucci, G. Notarstefano, G. Fedele, E. Mauri, R. Gerin, and P.-M. Poulain (2022), Climatic, Decadal, and Interannual Variability in the Upper Layer of the Mediterranean Sea Using Remotely Sensed and In-Situ Data, *Remote Sensing*, *14*(6), 1322, doi: <https://doi.org/10.3390/rs14061322>.
- Metzl, N., C. Lo Monaco, C. Leseurre, C. Ridame, J. Fin, C. Mignon, M. Gehlen, and T. T. T. Chau (2022), The impact of the South-East Madagascar Bloom on the oceanic CO₂ sink, *Biogeosciences*, *19*(5), 1451-1468, doi: <https://doi.org/10.5194/bg-19-1451-2022>.
- Meunier, T., P. Pérez-Brunius, and A. Bower (2022), Reconstructing the Three-Dimensional Structure of Loop Current Rings from Satellite Altimetry and In Situ Data Using the Gravest Empirical Modes Method, *Remote Sensing*, *14*(17), 4174, doi: <https://doi.org/10.3390/rs14174174>.
- Meuriot, O., C. Lique, and Y. Plancherel (2022), Properties, sensitivity, and stability of the Southern Hemisphere salinity minimum layer in the UKESM1 model, *Climate*

- Dynamics*, doi: <https://doi.org/10.1007/s00382-022-06304-2>.
- Mignac, D., M. Martin, E. Fiedler, E. Blockley, and N. Fournier (2022), Improving the Met Office's Forecast Ocean Assimilation Model (FOAM) with the assimilation of satellite-derived sea-ice thickness data from CryoSat-2 and SMOS in the Arctic, *Q. J. R. Meteorol. Soc.*, *148*(744), 1144-1167, doi: <https://doi.org/10.1002/qj.4252>.
- Mignot, A., K. von Schuckmann, P. Landschützer, F. Gasparin, S. van Gennip, C. Perruche, J. Lamouroux, and T. Amm (2022), Decrease in air-sea CO₂ fluxes caused by persistent marine heatwaves, *Nature Communications*, *13*(1), 4300, doi: <https://doi.org/10.1038/s41467-022-31983-0>.
- Miracca-Lage, M., C. González-Haro, D. C. Napolitano, J. Isern-Fontanet, and P. S. Polito (2022), Can the Surface Quasi-Geostrophic (SQG) Theory Explain Upper Ocean Dynamics in the South Atlantic?, *Journal of Geophysical Research: Oceans*, *127*(2), e2021JC018001, doi: <https://doi.org/10.1029/2021JC018001>.
- Miron, P., F. J. Beron-Vera, and M. J. Olascoaga (2022), Transition Paths of North Atlantic Deep Water, *J. Atmos. Ocean. Technol.*, *39*(7), 959-971, doi: <https://doi.org/10.1175/JTECH-D-22-0022.1>.
- Misra, V., C. B. Jayasankar, A. K. Mishra, A. Mitra, and P. Murugavel (2022), Dynamic Downscaling the South Asian Summer Monsoon From a Global Reanalysis Using a Regional Coupled Ocean-Atmosphere Model, *Journal of Geophysical Research: Atmospheres*, *127*(22), e2022JD037490, doi: <https://doi.org/10.1029/2022JD037490>.
- Miyamoto, A., H. Nakamura, T. Miyasaka, and Y. Kosaka (2022), Wintertime Weakening of Low-Cloud Impacts on the Subtropical High in the South Indian Ocean, *J. Clim.*, *35*(1), 323-334, doi: <https://doi.org/10.1175/JCLI-D-21-0178.1>.
- Modi, A., M. K. Roxy, and S. Ghosh (2022), Gap-filling of ocean color over the tropical Indian Ocean using Monte-Carlo method, *Scientific Reports*, *12*(1), 18395, doi: <https://doi.org/10.1038/s41598-022-22087-2>.
- Mohamed, B., O. Ibrahim, and H. Nagy (2022), Sea Surface Temperature Variability and Marine Heatwaves in the Black Sea, *Remote Sensing*, *14*(10), 2383, doi: <https://doi.org/10.3390/rs14102383>.
- Mohrmann, M., S. Swart, and C. Heuzé (2022), Observed Mixing at the Flanks of Maud Rise in the Weddell Sea, *Geophys. Res. Lett.*, *49*(8), e2022GL098036, doi: <https://doi.org/10.1029/2022GL098036>.
- Morioka, Y., D. Iovino, A. Cipollone, S. Masina, and S. K. Behera (2022), Decadal Sea Ice Prediction in the West Antarctic Seas with Ocean and Sea Ice Initializations, *Communications Earth & Environment*, *3*(1), 189, doi: <https://doi.org/10.1038/s43247-022-00529-z>.
- Moschos, E., A. Barboni, and A. Stegner (2022), Why Do Inverse Eddy Surface Temperature Anomalies Emerge? The Case of the Mediterranean Sea, *Remote Sensing*, *14*(15), 3807, doi: <https://doi.org/10.3390/rs14153807>.
- Moteki, Q. (2022), Validation of satellite-based sea surface temperature products against in situ observations off the western coast of Sumatra, *Scientific Reports*, *12*(1), 92, doi: <https://doi.org/10.1038/s41598-021-04156-0>.
- Mu, L., L. Nerger, J. Streffing, Q. Tang, B. Niraula, L. Zampieri, S. N. Loza, and H. F. Goessling (2022), Sea-Ice Forecasts With an Upgraded AWI Coupled Prediction System, *Journal*

- of Advances in Modeling Earth Systems*, 14(12), e2022MS003176, doi:
<https://doi.org/10.1029/2022MS003176>.
- Musgrave, R., F. Pollmann, S. Kelly, and M. Nikurashin (2022), Chapter 6 - The lifecycle of topographically-generated internal waves, in *Ocean Mixing*, edited by M. Meredith and A. Naveira Garabato, pp. 117-144, Elsevier, doi:
<https://doi.org/10.1016/B978-0-12-821512-8.00013-X>.
- Nagai, T., and G. S. Durán Gómez (2022), The Kuroshio Nutrient Stream: Where Diapycnal Mixing Matters, edited, Springer Berlin Heidelberg, Berlin, Heidelberg, doi:
https://doi.org/10.1007/698_2021_833.
- Nagano, A., T. Hasegawa, and M. Wakita (2022), Spatiotemporal vertical velocity variation in the western tropical Pacific and its relation to decadal ocean variability, *Prog. in Earth and Planet. Sci.*, 9(1), 57, doi: <https://doi.org/10.1186/s40645-022-00513-3>.
- Nagura, M., and S. Osafune (2022), Second Baroclinic Mode Rossby Waves in the South Indian Ocean, *J. Phys. Oceanogr.*, 52(8), 1749-1773, doi:
<https://doi.org/10.1175/JPO-D-21-0290.1>.
- Nakanowatari, T., J. Xie, L. Bertino, M. Matsueda, A. Yamagami, and J. Inoue (2022), Ensemble forecast experiments of summertime sea ice in the Arctic Ocean using the TOPAZ4 ice-ocean data assimilation system, *Environmental Research*, 209, 112769, doi: <https://doi.org/10.1016/j.envres.2022.112769>.
- Napier, T. J., L. Wörmer, J. Wendt, A. Lückge, N. Rohlf, and K.-U. Hinrichs (2022), Sub-Annual to Interannual Arabian Sea Upwelling, Sea Surface Temperature, and Indian Monsoon Rainfall Reconstructed Using Congruent Micrometer-Scale Climate Proxies, *Paleoceanography and Paleoclimatology*, 37(3), e2021PA004355, doi:
<https://doi.org/10.1029/2021PA004355>.
- Napolitano, D. C., G. Alory, I. Dadou, Y. Morel, J. Jouanno, and G. Morvan (2022), Influence of the Gulf of Guinea Islands on the Atlantic Equatorial Undercurrent Circulation, *Journal of Geophysical Research: Oceans*, 127(9), e2021JC017999, doi:
<https://doi.org/10.1029/2021JC017999>.
- Neun, S., J. Jacob, and O. Wurl (2022), Upper Ocean Responses to the Tropical Cyclones Ida and Felicia (2021) in the Gulf of Mexico and the Eastern North Pacific, *Remote Sensing*, 14(21), doi: <https://doi.org/10.3390/rs14215520>.
- Ngodock, H., M. Carrier, J. Osborne, and S. Smith (2022), Nesting and data assimilation considerations in regional operational ocean forecasting, *J. Oper. Oceanogr.*, 1-11, doi: <https://doi.org/10.1080/1755876X.2022.2147696>.
- Ni, J., J. Feng, R. Sun, and Y. Zhang (2022), Assessing Sea Surface Temperatures Estimated from Fused Infrared and Microwave Data, *Water*, 14(21), 3357, doi:
<https://doi.org/10.3390/w14213357>.
- Nickford, S., J. B. Palter, K. Donohue, A. J. Fassbender, A. R. Gray, J. Long, A. J. Sutton, N. R. Bates, and Y. Takeshita (2022), Autonomous Wintertime Observations of Air-Sea Exchange in the Gulf Stream Reveal a Perfect Storm for Ocean CO₂ Uptake, *Geophys. Res. Lett.*, 49(5), e2021GL096805, doi: <https://doi.org/10.1029/2021GL096805>.
- Nie, X., H. Liu, T. Xu, and Z. Wei (2022), Indian Ocean Subtropical Underwater and the Interannual Variability in Its Annual Subduction Rate Associated with the Southern Annular Mode, *J. Phys. Oceanogr.*, 52(3), 383-397, doi:

- <https://doi.org/10.1175/JPO-D-21-0191.1>.
- Ntoumas, M., et al. (2022), The POSEIDON Ocean Observing System: Technological Development and Challenges, *Journal of Marine Science and Engineering*, 10(12), doi: <https://doi.org/10.3390/jmse10121932>.
- Nyadjro, E. S., B. A. K. Foli, K. A. Agyekum, G. Wiafe, and S. Tsei (2022), Seasonal Variability of Sea Surface Salinity in the NW Gulf of Guinea from SMAP Satellite, *Remote Sensing in Earth Systems Sciences*, 5(1), 83-94, doi: <https://doi.org/10.1007/s41976-021-00061-2>.
- Nyadjro, E. S., Z. Wang, J. Reagan, J. Cebrian, and J. F. Shriver (2022), Bio-Physical Changes in the Gulf of Mexico During the 2018 Hurricane Michael, *IEEE Geosci. Remote Sens. Lett.*, 19, 1-5, doi: <https://doi.org/10.1109/LGRS.2021.3068600>.
- O'Brien, T., and E. Boss (2022), Correction of Radiometry Data for Temperature Effect on Dark Current, with Application to Radiometers on Profiling Floats, *Sensors*, 22(18), 6771, doi: <https://doi.org/10.3390/s22186771>.
- Ohishi, S., T. Hihara, H. Aiki, J. Ishizaka, Y. Miyazawa, M. Kachi, and T. Miyoshi (2022), An ensemble Kalman filter system with the Stony Brook Parallel Ocean Model v1.0, *Geosci. Model Dev.*, 15(22), 8395-8410, doi: <https://doi.org/10.5194/gmd-15-8395-2022>.
- Oke, P. R., T. Rykova, G. S. Pilo, and J. L. Lovell (2022), Estimating Argo Float Trajectories Under Ice, *Earth and Space Science*, 9(7), e2022EA002312, doi: <https://doi.org/10.1029/2022EA002312>.
- Olmedo, E., et al. (2022), Increasing stratification as observed by satellite sea surface salinity measurements, *Scientific Reports*, 12(1), 6279, doi: <https://doi.org/10.1038/s41598-022-10265-1>.
- Organelli, E., E. Leymarie, C. Zielinski, J. Uitz, F. D'Ortenzio, and H. Claustre (2022), Hyperspectral Radiometry on Biogeochemical-Argo Floats: A Bright Perspective for Phytoplankton Diversity, *Oceanography*, 34(4), 90-91, doi: <https://doi.org/10.5670/oceanog.2021.supplement.02-33>.
- Osafune, S., S. Kouketsu, T. Doi, N. Sugiura, and S. Masuda (2022), A global ocean state estimation using tidally induced vertical-mixing schemes, *Ocean Model.*, 179, 102111, doi: <https://doi.org/10.1016/j.ocemod.2022.102111>.
- Osborne, J. J., M. J. Carrier, and H. E. Ngodock (2022), Difficulty with Sea Surface Height Assimilation When Relying on an Unrepresentative Climatology, in *Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications (Vol. IV)*, edited by S. K. Park and L. Xu, pp. 439-464, Springer International Publishing, Cham, doi: https://doi.org/10.1007/978-3-030-77722-7_17.
- Ou, Z., K. Qu, M. Shi, Y. Wang, and J. Zhou (2022), Estimation of sound speed profiles based on remote sensing parameters using a scalable end-to-end tree boosting model, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.1051820>.
- Owens, W. B., N. Zilberman, K. S. Johnson, H. Claustre, M. Scanderbeg, S. Wijffels, and T. Suga (2022), OneArgo: A New Paradigm for Observing the Global Ocean, *Mar. Technol. Soc. J.*, 56(3), 84-90, doi: <https://doi.org/10.4031/MTSJ.56.3.8>.
- Panda, S. K., A. K. Mandal, B. P. Shukla, N. Jaiswal, C. M. Kishtawal, and A. K. Varma (2022), A study of rapid intensification of tropical cyclone Ockhi using C-band polarimetric

- radar, *Meteorology and Atmospheric Physics*, 134(5), 86, doi: <https://doi.org/10.1007/s00703-022-00921-6>.
- Pandey, R. S., and Y.-A. Liou (2022), Sea surface temperature (SST) and SST anomaly (SSTA) datasets over the last four decades (1977–2016) during typhoon season (May to November) in the entire Global Ocean, North Pacific Ocean, Philippine Sea, South China sea, and Eastern China Sea, *Data in Brief*, 45, 108646, doi: <https://doi.org/10.1016/j.dib.2022.108646>.
- Pandey, R. S., and Y.-A. Liou (2022), Typhoon strength rising in the past four decades, *Weather and Climate Extremes*, 36, 100446, doi: <https://doi.org/10.1016/j.wace.2022.100446>.
- Park, M.-S., S. Lee, J.-H. Ahn, S.-J. Lee, J.-K. Choi, and J.-H. Ryu (2022), Decadal Measurements of the First Geostationary Ocean Color Satellite (GOCI) Compared with MODIS and VIIRS Data, *Remote Sensing*, 14(1), 72, doi: <https://doi.org/10.3390/rs14010072>.
- Patel, S., M. Vithalpara, S. K. Mallick, and S. Ratheesh (2022), Impact of Initial and Boundary Conditions on Coupled Model Simulations for Bay of Bengal, *Mar. Geod.*, 45(2), 166-193, doi: <https://doi.org/10.1080/01490419.2021.2006376>.
- Pathirana, G., D. Wang, G. Chen, M. K. Abeyratne, and T. Priyadarshana (2022), Effect of seasonal barrier layer on mixed-layer heat budget in the Bay of Bengal, *Acta Oceanol. Sin.*, 41(9), 38-49, doi: <https://doi.org/10.1007/s13131-021-1966-0>.
- Patrizio, C. R., and D. W. J. Thompson (2022), Understanding the Role of Ocean Dynamics in Midlatitude Sea Surface Temperature Variability Using a Simple Stochastic Climate Model, *J. Clim.*, 35(11), 3313-3333, doi: <https://doi.org/10.1175/JCLI-D-21-0184.1>.
- Pauthenet, E., L. Bachelot, K. Balem, G. Maze, A. M. Tréguier, F. Roquet, R. Fablet, and P. Tandeo (2022), Four-dimensional temperature, salinity and mixed-layer depth in the Gulf Stream, reconstructed from remote-sensing and in situ observations with neural networks, *Ocean Sci.*, 18(4), 1221-1244, doi: <https://doi.org/10.5194/os-18-1221-2022>.
- Peng, Q., S.-P. Xie, D. Wang, X. Huang Rui, G. Chen, Y. Shu, J.-R. Shi, and W. Liu (2022), Surface warming–induced global acceleration of upper ocean currents, *Science Advances*, 8(16), eabj8394, doi: <https://doi.org/10.1126/sciadv.abj8394>.
- Petalas, S., E. Tragou, I. G. Mamoutos, and V. Zervakis (2022), Simulating the Interconnected Eastern Mediterranean–Black Sea System on Climatic Timescales: A 30-Year Realistic Hindcast, *Journal of Marine Science and Engineering*, 10(11), doi: <https://doi.org/10.3390/jmse10111786>.
- Petit, F., J. Uitz, C. Schmechtig, C. Dimier, J. Ras, A. Poteau, M. Golbol, V. Vellucci, and H. Claustre (2022), Influence of the phytoplankton community composition on the in situ fluorescence signal: Implication for an improved estimation of the chlorophyll-a concentration from BioGeoChemical-Argo profiling floats, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.959131>.
- Petit, T., V. Thierry, and H. Mercier (2022), Deep through-flow in the Bight Fracture Zone, *Ocean Sci.*, 18(4), 1055-1071, doi: <https://doi.org/10.5194/os-18-1055-2022>.
- Petrenko, B., V. Pryamitsyn, A. Ignatov, O. Jonasson, and Y. Kihai (2022), AVHRR GAC Sea Surface Temperature Reanalysis Version 2, *Remote Sensing*, 14(13), 3165, doi:

<https://doi.org/10.3390/rs14133165>.

- Picheral, M., et al. (2022), The Underwater Vision Profiler 6: an imaging sensor of particle size spectra and plankton, for autonomous and cabled platforms, *Limnology and Oceanography: Methods*, 20(2), 115-129, doi: <https://doi.org/10.1002/lom3.10475>.
- Piecuch, C. G., I. Fukumori, R. M. Ponte, M. Schindelegger, O. Wang, and M. Zhao (2022), Low-Frequency Dynamic Ocean Response to Barometric-Pressure Loading, *J. Phys. Oceanogr.*, 52(11), 2627-2641, doi: <https://doi.org/10.1175/JPO-D-22-0090.1>.
- Pinault, J.-L. (2022), A Review of the Role of the Oceanic Rossby Waves in Climate Variability, *Journal of Marine Science and Engineering*, 10(4), 493, doi: <https://doi.org/10.3390/jmse10040493>.
- Piontkovski, S. A., A. V. Melnik, I. M. Serikova, V. P. Evstigneev, and S. Dobretsov (2022), Bioluminescence of the tropical Indian Ocean: a multiple-scale variation, *Luminescence*, 37(9), 1436-1445, doi: <https://doi.org/10.1002/bio.4315>.
- Prakash, P., S. Prakash, M. Ravichandran, N. A. Kumar, and T. V. S. U. Bhaskar (2022), On anomalously high sub-surface dissolved oxygen in the Indian sector of the Southern Ocean, *J. Oceanogr.*, 78(5), 369-380, doi: <https://doi.org/10.1007/s10872-022-00644-7>.
- Prasad, S. J., T. M. Balakrishnan Nair, and B. Balaji (2022), Improved prediction of oil drift pattern using ensemble of ocean currents, *J. Oper. Oceanogr.*, 1-16, doi: <https://doi.org/10.1080/1755876X.2022.2147699>.
- Prasad, S. J., T. M. B. Nair, S. Joseph, and P. C. Mohanty (2022), Simulating the spatial and temporal distribution of oil spill over the coral reef environs along the southeast coast of Mauritius: A case study on MV Wakashio vessel wreckage, August 2020, *Journal of Earth System Science*, 131(1), 42, doi: <https://doi.org/10.1007/s12040-021-01791-z>.
- Pravallika, M. S., S. Vasavi, and S. P. Vighneshwar (2022), Prediction of temperature anomaly in Indian Ocean based on autoregressive long short-term memory neural network, *Neural Computing and Applications*, 34(10), 7537-7545, doi: <https://doi.org/10.1007/s00521-021-06878-8>.
- Prend, C. J., A. R. Gray, L. D. Talley, S. T. Gille, F. A. Haumann, K. S. Johnson, S. C. Riser, I. Rosso, J. Sauvé, and J. L. Sarmiento (2022), Indo-Pacific Sector Dominates Southern Ocean Carbon Outgassing, *Glob. Biogeochem. Cycle*, 36(7), e2021GB007226, doi: <https://doi.org/10.1029/2021GB007226>.
- Prend, C. J., J. M. Hunt, M. R. Mazloff, S. T. Gille, and L. D. Talley (2022), Controls on the Boundary Between Thermally and Non-Thermally Driven pCO₂ Regimes in the South Pacific, *Geophys. Res. Lett.*, 49(9), e2021GL095797, doi: <https://doi.org/10.1029/2021GL095797>.
- Prend, C. J., M. G. Keerthi, M. Lévy, O. Aumont, S. T. Gille, and L. D. Talley (2022), Sub-Seasonal Forcing Drives Year-To-Year Variations of Southern Ocean Primary Productivity, *Glob. Biogeochem. Cycle*, 36(7), e2022GB007329, doi: <https://doi.org/10.1029/2022GB007329>.
- Qi, J., C. Liu, J. Chi, D. Li, L. Gao, and B. Yin (2022), An Ensemble-Based Machine Learning Model for Estimation of Subsurface Thermal Structure in the South China Sea, *Remote Sensing*, 14(13), 3207, doi: <https://doi.org/10.3390/rs14133207>.

- Qian, A., S. Yi, F. Li, B. Su, G. Sun, and X. Liu (2022), Evaluation of the Consistency of Three GRACE Gap-Filling Data, *Remote Sensing*, 14(16), 3916, doi: <https://doi.org/10.3390/rs14163916>.
- Qiao, M., A. Cao, J. Song, Y. Pan, and H. He (2022), Enhanced Turbulent Mixing in the Upper Ocean Induced by Super Typhoon Goni (2015), *Remote Sensing*, 14(10), 2300, doi: <https://doi.org/10.3390/rs14102300>.
- Qin, Q., Z. Wang, C. Liu, and C. Cheng (2022), Open-Ocean Polynyas in the Cooperation Sea, Antarctica, *J. Phys. Oceanogr.*, 52(7), 1363-1381, doi: <https://doi.org/10.1175/JPO-D-21-0197.1>.
- Qiu, C., Z. Yi, D. Su, Z. Wu, H. Liu, P. Lin, Y. He, and D. Wang (2022), Cross-Slope Heat and Salt Transport Induced by Slope Intrusion Eddy's Horizontal Asymmetry in the Northern South China Sea, *Journal of Geophysical Research: Oceans*, 127(9), e2022JC018406, doi: <https://doi.org/10.1029/2022JC018406>.
- Qu, B., A. J. Gabric, and R. Jackson (2022), Modeling contemporary and future dimethylsulfide flux in the eastern China marginal seas, *Cont. Shelf Res.*, 237, 104677, doi: <https://doi.org/10.1016/j.csr.2022.104677>.
- Qu, K., B. Zou, and J. Zhou (2022), Rapid environmental assessment in the South China Sea: Improved inversion of sound speed profile using remote sensing data, *Acta Oceanol. Sin.*, 41(7), 78-83, doi: <https://doi.org/10.1007/s13131-022-2032-2>.
- Qu, Y., S. Wang, Z. Jing, H. Wang, and L. Wu (2022), Spatial Structure of Vertical Motions and Associated Heat Flux Induced by Mesoscale Eddies in the Upper Kuroshio-Oyashio Extension, *Journal of Geophysical Research: Oceans*, 127(10), e2022JC018781, doi: <https://doi.org/10.1029/2022JC018781>.
- Rainville, L., C. M. Lee, K. Arulananthan, S. U. P. Jinadasa, H. J. S. Fernando, W. N. C. Priyadarshani, and H. Wijesekera (2022), Water Mass Exchanges between the Bay of Bengal and Arabian Sea from Multiyear Sampling with Autonomous Gliders, *J. Phys. Oceanogr.*, 52(10), 2377-2396, doi: <https://doi.org/10.1175/JPO-D-21-0279.1>.
- Raj, H., R. Bhushan, U. S. Banerji, P. S. Jena, and A. J. Dabhi (2022), Seasonal variation of surface seawater radiocarbon in the Andaman Sea as recorded in coral, *Journal of Environmental Radioactivity*, 255, 107021, doi: <https://doi.org/10.1016/j.jenvrad.2022.107021>.
- Ratnam, J. V., T. Doi, I. Richter, P. Oettli, M. Nonaka, and S. K. Behera (2022), Using Selected Members of a Large Ensemble to Improve Prediction of Surface Air Temperature Anomalies Over Japan in the Winter Months From Mid-Autumn, *Frontiers in Climate*, 4, doi: <https://doi.org/10.3389/fclim.2022.919084>.
- Reagan, J., T. Boyer, C. Schmid, and R. Locarnini (2022), Subsurface salinity. In the State of the Climate in 2021, Global Oceans, *Bull. Am. Meteorol. Soc.*, doi: <https://doi.org/10.1175/BAMS-D-22-0072.1>.
- Reed, E. V., D. M. Thompson, and K. J. Anchukaitis (2022), Coral-Based Sea Surface Salinity Reconstructions and the Role of Observational Uncertainties in Inferred Variability and Trends, *Paleoceanography and Paleoclimatology*, 37(6), e2021PA004371, doi: <https://doi.org/10.1029/2021PA004371>.
- Reichl, B. G., A. Adcroft, S. M. Griffies, and R. Hallberg (2022), A Potential Energy Analysis of Ocean Surface Mixed Layers, *Journal of Geophysical Research: Oceans*, 127(7),

- e2021JC018140, doi: <https://doi.org/10.1029/2021JC018140>.
- Ren, Q., Y.-O. Kwon, J. Yang, R. X. Huang, Y. Li, and F. Wang (2022), Increasing Inhomogeneity of the Global Oceans, *Geophys. Res. Lett.*, 49(12), e2021GL097598, doi: <https://doi.org/10.1029/2021GL097598>.
- Ren, Q., F. Yu, F. Nan, Y. Li, J. Wang, Y. Liu, and Z. Chen (2022), Effects of mesoscale eddies on intraseasonal variability of intermediate water east of Taiwan, *Scientific Reports*, 12(1), 9182, doi: <https://doi.org/10.1038/s41598-022-13274-2>.
- Rhomad, H., K. Khalil, R. Neves, J. Sobrinho, J. M. Dias, and K. Elkalay (2022), Three-dimensional hydrodynamic modelling of the Moroccan Atlantic coast: A case study of Agadir bay, *Journal of Sea Research*, 188, 102272, doi: <https://doi.org/10.1016/j.seares.2022.102272>.
- Rigual-Hernández, A. S., et al. (2022), Influence of environmental variability and *Emiliania huxleyi* ecotypes on alkenone-derived temperature reconstructions in the subantarctic Southern Ocean, *Science of The Total Environment*, 812, 152474, doi: <https://doi.org/10.1016/j.scitotenv.2021.152474>.
- Ringler, A. T., et al. (2022), Achievements and Prospects of Global Broadband Seismographic Networks After 30 Years of Continuous Geophysical Observations, *Reviews of Geophysics*, 60(3), e2021RG000749, doi: <https://doi.org/10.1029/2021RG000749>.
- Roberts, S. M., P. N. Halpin, and J. S. Clark (2022), Jointly modeling marine species to inform the effects of environmental change on an ecological community in the Northwest Atlantic, *Scientific Reports*, 12(1), 132, doi: <https://doi.org/10.1038/s41598-021-04110-0>.
- Roemmich, D., W. S. Wilson, W. J. Gould, W. B. Owens, P.-Y. Le Traon, H. J. Freeland, B. A. King, S. Wijffels, P. J. H. Sutton, and N. Zilberman (2022), Chapter 4 - The Argo Program, in *Partnerships in Marine Research*, edited by G. Auad and F. K. Wiese, pp. 53-69, Elsevier, doi: <https://doi.org/10.1016/B978-0-323-90427-8.00004-6>.
- Rossby, T., J. Palter, and K. Donohue (2022), What Can Hydrography Between the New England Slope, Bermuda and Africa Tell us About the Strength of the AMOC Over the Last 90 years?, *Geophys. Res. Lett.*, 49(23), e2022GL099173, doi: <https://doi.org/10.1029/2022GL099173>.
- Rossi, G. B., A. Cannata, A. Iengo, M. Migliaccio, G. Nardone, V. Piscopo, and E. Zambianchi (2022), Measurement of Sea Waves, *Sensors*, 22(1), 78, doi: <https://doi.org/10.3390/s22010078>.
- Roussenov, V. M., R. G. Williams, M. S. Lozier, N. P. Holliday, and D. M. Smith (2022), Historical Reconstruction of Subpolar North Atlantic Overturning and Its Relationship to Density, *Journal of Geophysical Research: Oceans*, 127(6), e2021JC017732, doi: <https://doi.org/10.1029/2021JC017732>.
- Rudels, B. (2022), Chapter 5 - The circulation and transformations of Atlantic water in the Arctic Mediterranean Sea, in *The Physical Oceanography of the Arctic Mediterranean Sea*, edited by B. Rudels, pp. 211-276, Elsevier, doi: <https://doi.org/10.1016/B978-0-12-816930-8.00010-4>.
- Rühs, S., C. Schmidt, R. Schubert, T. G. Schulzki, F. U. Schwarzkopf, D. Le Bars, and A. Biastoch (2022), Robust estimates for the decadal evolution of Agulhas leakage from the 1960s to the 2010s, *Communications Earth & Environment*, 3(1), 318, doi: <https://doi.org/10.1038/s43247-022-00318-1>.

- <https://doi.org/10.1038/s43247-022-00643-y>.
- Rykova, T., and P. R. Oke (2022), Stacking of EAC Eddies Observed From Argo, *Journal of Geophysical Research: Oceans*, 127(8), e2022JC018679, doi: <https://doi.org/10.1029/2022JC018679>.
- Sakamoto, T., M. Takahashi, M.-T. Chung, R. R. Rykaczewski, K. Komatsu, K. Shirai, T. Ishimura, and T. Higuchi (2022), Contrasting life-history responses to climate variability in eastern and western North Pacific sardine populations, *Nature Communications*, 13(1), 5298, doi: <https://doi.org/10.1038/s41467-022-33019-z>.
- Sambe, F., and T. Suga (2022), Unsupervised Clustering of Argo Temperature and Salinity Profiles in the Mid-Latitude Northwest Pacific Ocean and Revealed Influence of the Kuroshio Extension Variability on the Vertical Structure Distribution, *Journal of Geophysical Research: Oceans*, 127(3), e2021JC018138, doi: <https://doi.org/10.1029/2021JC018138>.
- Sammartino, M., S. Aronica, R. Santoleri, and B. Buongiorno Nardelli (2022), Retrieving Mediterranean Sea Surface Salinity Distribution and Interannual Trends from Multi-Sensor Satellite and In Situ Data, *Remote Sensing*, 14(10), 2502, doi: <https://doi.org/10.3390/rs14102502>.
- Sampson, C. R., J. Cummings, J. A. Knaff, M. DeMaria, and E. A. Serra (2022), An Upper Ocean Thermal Field Metrics Dataset, *Meteorology*, 1(3), 327-340, doi: <https://doi.org/10.3390/meteorology1030021>.
- Sasaki, H., B. Qiu, P. Klein, M. Nonaka, and Y. Sasai (2022), Interannual Variations of Submesoscale Circulations in the Subtropical Northeastern Pacific, *Geophys. Res. Lett.*, 49(7), e2021GL097664, doi: <https://doi.org/10.1029/2021GL097664>.
- Sasaki, Y. N., and Y. Iwai (2022), Two Pathways of Subsurface Spiciness Anomalies in the Subtropical South Pacific, *Frontiers in Climate*, 4, doi: <https://doi.org/10.3389/fclim.2022.897498>.
- Sato, T., T. Shiozaki, F. Hashihama, M. Sato, A. Murata, K. Sasaoka, S.-i. Umeda, and K. Takahashi (2022), Low Nitrogen Fixation Related to Shallow Nitracline Across the Eastern Indian Ocean, *Journal of Geophysical Research: Biogeosciences*, 127(10), e2022JG007104, doi: <https://doi.org/10.1029/2022JG007104>.
- Savita, A., et al. (2022), Quantifying Spread in Spatiotemporal Changes of Upper-Ocean Heat Content Estimates: An Internationally Coordinated Comparison, *J. Clim.*, 35(2), 851-875, doi: <https://doi.org/10.1175/JCLI-D-20-0603.1>.
- Schaap, D. M. A., A. Novellino, M. Fichaut, and G. M. R. Manzella (2022), Chapter Three - Data management infrastructures and their practices in Europe, in *Ocean Science Data*, edited by G. Manzella and A. Novellino, pp. 131-193, Elsevier, doi: <https://doi.org/10.1016/B978-0-12-823427-3.00007-4>.
- Schallenberg, C., R. F. Strzepek, S. Bestley, B. Wojtasiewicz, and T. W. Trull (2022), Iron Limitation Drives the Globally Extreme Fluorescence/Chlorophyll Ratios of the Southern Ocean, *Geophys. Res. Lett.*, 49(12), e2021GL097616, doi: <https://doi.org/10.1029/2021GL097616>.
- Schindelegger, M., D. P. Kotzian, R. D. Ray, J. A. M. Green, and S. Stolzenberger (2022), Interannual Changes in Tidal Conversion Modulate M2 Amplitudes in the Gulf of Maine, *Geophys. Res. Lett.*, 49(24), e2022GL101671, doi: <https://doi.org/10.1029/2022GL101671>.

- <https://doi.org/10.1029/2022GL101671>.
- Schönau, M. C., D. L. Rudnick, G. Gopalakrishnan, B. D. Cornuelle, and B. Qiu (2022), Mean, Annual, and Interannual Circulation and Volume Transport in the Western Tropical North Pacific From the Western Pacific Ocean State Estimates (WPOSE), *Journal of Geophysical Research: Oceans*, 127(6), e2021JC018213, doi: <https://doi.org/10.1029/2021JC018213>.
- Seelanki, V., T. Nigam, and V. Pant (2022), Inconsistent response of biophysical characteristics in the western Bay of Bengal associated with positive Indian Ocean dipole, *Oceanologia*, 64(4), 595-614, doi: <https://doi.org/10.1016/j.oceano.2022.04.003>.
- Seelanki, V., T. Nigam, and V. Pant (2022), Unravelling the roles of Indian Ocean Dipole and El-Niño on winter primary productivity over the Arabian Sea, *Deep Sea Research Part I: Oceanographic Research Papers*, 190, 103913, doi: <https://doi.org/10.1016/j.dsr.2022.103913>.
- Semper, S., K. Våge, R. S. Pickart, S. Jónsson, and H. Valdimarsson (2022), Evolution and Transformation of the North Icelandic Irminger Current Along the North Iceland Shelf, *Journal of Geophysical Research: Oceans*, 127(3), e2021JC017700, doi: <https://doi.org/10.1029/2021JC017700>.
- Sen, R., S. Pandey, S. Dandapat, P. A. Francis, and A. Chakraborty (2022), A numerical study on seasonal transport variability of the North Indian Ocean boundary currents using Regional Ocean Modeling System (ROMS), *J. Oper. Oceanogr.*, 15(1), 32-51, doi: <https://doi.org/10.1080/1755876X.2020.1846266>.
- Senjyu, T. (2022), Changes in Mid-Depth Water Mass Ventilation in the Japan Sea Deduced From Long-Term Spatiotemporal Variations of Warming Trends, *Frontiers in Marine Science*, 8, doi: <https://doi.org/10.3389/fmars.2021.766042>.
- Sévellec, F., A. C. d. Verdière, and N. Kolodziejczyk (2022), Estimation of Horizontal Turbulent Diffusivity from Deep Argo Float Displacements, *J. Phys. Oceanogr.*, 52(7), 1509-1529, doi: <https://doi.org/10.1175/JPO-D-21-0150.1>.
- Shen, M., Y. Chen, P. Wang, and W. Zhang (2022), Assimilating satellite SST/SSH and in-situ T/S profiles with the Localized Weighted Ensemble Kalman Filter, *Acta Oceanol. Sin.*, 41(2), 26-40, doi: <https://doi.org/10.1007/s13131-021-1903-2>.
- Shen, Z., and S. Zhang (2022), The generation mechanism of cold eddies and the related heat flux exchanges in the upper ocean during two sequential tropical cyclones, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.1061159>.
- Shi, H. Y., L. Du, and X. B. Ni (2022), Salinity Variability Modes in the Pacific Ocean From the Perspectives of the Interdecadal Pacific Oscillation and Global Warming, *Journal of Geophysical Research: Oceans*, 127(7), e2021JC018092, doi: <https://doi.org/10.1029/2021JC018092>.
- Shu, C., P. Xiu, X. Xing, G. Qiu, W. Ma, R. J. W. Brewin, and S. Ciavatta (2022), Biogeochemical Model Optimization by Using Satellite-Derived Phytoplankton Functional Type Data and BGC-Argo Observations in the Northern South China Sea, *Remote Sensing*, 14(5), 1297, doi: <https://doi.org/10.3390/rs14051297>.
- Shulman, I., J. H. Cohen, M. A. Moline, S. Anderson, E. J. Metzger, and C. Rowley (2022), Modeling studies of the bioluminescence potential dynamics in a high Arctic fjord

- during polar night, *Ocean Dyn.*, 72(1), 37-48, doi: <https://doi.org/10.1007/s10236-021-01491-8>.
- Silver, A., A. Gangopadhyay, G. Gawarkiewicz, M. Andres, G. Flierl, and J. Clark (2022), Spatial Variability of Movement, Structure, and Formation of Warm Core Rings in the Northwest Atlantic Slope Sea, *Journal of Geophysical Research: Oceans*, 127(8), e2022JC018737, doi: <https://doi.org/10.1029/2022JC018737>.
- Simanjuntak, F., and T.-H. Lin (2022), Monsoon Effects on Chlorophyll-a, Sea Surface Temperature, and Ekman Dynamics Variability along the Southern Coast of Lesser Sunda Islands and Its Relation to ENSO and IOD Based on Satellite Observations, *Remote Sensing*, 14(7), 1682, doi: <https://doi.org/10.3390/rs14071682>.
- Simoncelli, S., et al. (2022), Chapter Four - A collaborative framework among data producers, managers, and users, in *Ocean Science Data*, edited by G. Manzella and A. Novellino, pp. 197-280, Elsevier, doi: <https://doi.org/10.1016/B978-0-12-823427-3.00001-3>.
- Singh, V. K., and M. K. Roxy (2022), A review of ocean-atmosphere interactions during tropical cyclones in the north Indian Ocean, *Earth-Science Reviews*, 226, 103967, doi: <https://doi.org/10.1016/j.earscirev.2022.103967>.
- Skagseth, Ø., C. Broms, K. Gundersen, H. Hátún, I. Kristiansen, K. M. H. Larsen, K. A. Mork, H. Petursdottir, and H. Søliland (2022), Arctic and Atlantic Waters in the Norwegian Basin, Between Year Variability and Potential Ecosystem Implications, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.831739>.
- Skákala, J., et al. (2022), The impact of ocean biogeochemistry on physics and its consequences for modelling shelf seas, *Ocean Model.*, 172, 101976, doi: <https://doi.org/10.1016/j.ocemod.2022.101976>.
- Small, R. J., F. O. Bryan, and S. P. Bishop (2022), Surface Water Mass Transformation in the Southern Ocean: The Role of Eddies Revisited, *J. Phys. Oceanogr.*, 52(5), 789-804, doi: <https://doi.org/10.1175/JPO-D-21-0087.1>.
- Smith, G. C., and A.-S. Fortin (2022), Verification of eddy properties in operational oceanographic analysis systems, *Ocean Model.*, 172, 101982, doi: <https://doi.org/10.1016/j.ocemod.2022.101982>.
- Soares, S. M., S. T. Gille, T. K. Chereskin, E. Firing, J. Hummon, and C. B. Rocha (2022), Transition from Balanced to Unbalanced Motion in the Eastern Tropical Pacific, *J. Phys. Oceanogr.*, 52(8), 1775-1795, doi: <https://doi.org/10.1175/JPO-D-21-0139.1>.
- Sohail, T., J. D. Zika, D. B. Irving, and J. A. Church (2022), Observed poleward freshwater transport since 1970, *Nature*, 602(7898), 617-622, doi: <https://doi.org/10.1038/s41586-021-04370-w>.
- Song, T., W. Wei, F. Meng, J. Wang, R. Han, and D. Xu (2022), Inversion of Ocean Subsurface Temperature and Salinity Fields Based on Spatio-Temporal Correlation, *Remote Sensing*, 14(11), 2587, doi: <https://doi.org/10.3390/rs14112587>.
- Song, Y., J. Yang, C. Wang, and D. Sun (2022), Spatial patterns and environmental associations of deep scattering layers in the northwestern subtropical Pacific Ocean, *Acta Oceanol. Sin.*, 41(7), 139-152, doi: <https://doi.org/10.1007/s13131-021-1973-1>.
- Sridevi, B., and V. V. S. S. Sarma (2022), Enhanced Atmospheric Pollutants Strengthened Winter Convective Mixing and Phytoplankton Blooms in the Northern Arabian Sea,

- Journal of Geophysical Research: Biogeosciences*, 127(10), e2021JG006527, doi: <https://doi.org/10.1029/2021JG006527>.
- Srinivasan, A., T. M. Chin, E. P. Chassignet, M. Iskandarani, and N. Groves (2022), A Statistical Interpolation Code for Ocean Analysis and Forecasting, *J. Atmos. Ocean. Technol.*, 39(3), 367-386, doi: <https://doi.org/10.1175/JTECH-D-21-0033.1>.
- Stanev, E. V., K. Wahle, and J. Staneva (2022), The Synergy of Data From Profiling Floats, Machine Learning and Numerical Modeling: Case of the Black Sea Euphotic Zone, *Journal of Geophysical Research: Oceans*, 127(8), e2021JC018012, doi: <https://doi.org/10.1029/2021JC018012>.
- Steffen, K., et al. (2022), Oceanographic setting influences the prokaryotic community and metabolome in deep-sea sponges, *Scientific Reports*, 12(1), 3356, doi: <https://doi.org/10.1038/s41598-022-07292-3>.
- Steinberg, J. M., S. T. Cole, K. Drushka, and R. P. Abernathy (2022), Seasonality of the Mesoscale Inverse Cascade as Inferred from Global Scale-Dependent Eddy Energy Observations, *J. Phys. Oceanogr.*, 52(8), 1677-1691, doi: <https://doi.org/10.1175/JPO-D-21-0269.1>.
- Stolzenberger, S., R. Rietbroek, C. Wekerle, B. Uebbing, and J. Kusche (2022), Simulated Signatures of Greenland Melting in the North Atlantic: A Model Comparison With Argo Floats, Satellite Observations, and Ocean Reanalysis, *Journal of Geophysical Research: Oceans*, 127(11), e2022JC018528, doi: <https://doi.org/10.1029/2022JC018528>.
- Storto, A., L. Cheng, and C. Yang (2022), Revisiting the 2003–18 Deep Ocean Warming through Multiplatform Analysis of the Global Energy Budget, *J. Clim.*, 35(14), 4701-4717, doi: <https://doi.org/10.1175/JCLI-D-21-0726.1>.
- Su, H., J. Jiang, A. Wang, W. Zhuang, and X.-H. Yan (2022), Subsurface Temperature Reconstruction for the Global Ocean from 1993 to 2020 Using Satellite Observations and Deep Learning, *Remote Sensing*, 14(13), 3198, doi: <https://doi.org/10.3390/rs14133198>.
- Su, J., C. Schallenberg, T. Rohr, P. G. Strutton, and H. E. Phillips (2022), New Estimates of Southern Ocean Annual Net Community Production Revealed by BGC-Argo Floats, *Geophys. Res. Lett.*, 49(15), e2021GL097372, doi: <https://doi.org/10.1029/2021GL097372>.
- Sugimoto, S. (2022), Decreasing Wintertime Mixed-Layer Depth in the Northwestern North Pacific Subtropical Gyre, *Geophys. Res. Lett.*, 49(2), e2021GL095091, doi: <https://doi.org/10.1029/2021GL095091>.
- Sui, Y., J. Sheng, D. Tang, and J. Xing (2022), Study of storm-induced changes in circulation and temperature over the northern South China Sea during Typhoon Linfa, *Cont. Shelf Res.*, 249, 104866, doi: <https://doi.org/10.1016/j.csr.2022.104866>.
- Sun, D., M. Yu, and K. Cai (2022), Inversion of ocean sound speed profiles from travel time measurements using a ray-gradient-enhanced surrogate model, *Remote Sensing Letters*, 13(9), 888-897, doi: <https://doi.org/10.1080/2150704X.2022.2104140>.
- Sun, Q., Y. Zhang, Y. Du, and X. Jiang (2022), Asymmetric Response of Sea Surface Salinity to Extreme Positive and Negative Indian Ocean Dipole in the Southern Tropical Indian Ocean, *Journal of Geophysical Research: Oceans*, 127(11), e2022JC018986, doi: <https://doi.org/10.1029/2022JC018986>.

- <https://doi.org/10.1029/2022JC018986>.
- Supply, A., J. Boutin, N. Kolodziejczyk, G. Reverdin, C. Lique, J.-L. Vergely, and X. Perrot (2022), Meltwater Lenses Over the Chukchi and the Beaufort Seas During Summer 2019: From In Situ to Synoptic View, *Journal of Geophysical Research: Oceans*, 127(12), e2021JC018388, doi: <https://doi.org/10.1029/2021JC018388>.
- Suslin, V., V. Slabakova, and T. Churilova (2022), 4D structure of bio-optical characteristics of the upper 70 m layer of the Black Sea: Bio-Argo floats and ocean color scanners, *Total Environment Research Themes*, 3-4, 100006, doi: <https://doi.org/10.1016/j.totert.2022.100006>.
- Svishchev, S. V., and A. A. Kubryakov (2022), Impact of Winter Cooling on the Interannual Variability in the Vertical Oxygen Distribution in the Black Sea: Evidence from Bio-Argo Floats, *Oceanology*, 62(2), 143-154, doi: <https://doi.org/10.1134/S0001437022020163>.
- Taillandier, V., et al. (2022), Sources of the Levantine Intermediate Water in Winter 2019, *Journal of Geophysical Research: Oceans*, 127(6), e2021JC017506, doi: <https://doi.org/10.1029/2021JC017506>.
- Tan, S., J. Shi, G. Wang, X. Xing, and H. Lü (2022), A case study of the westward transport of Chlorophyll-a entrained by ocean eddies during a tropical cyclone, *Regional Studies in Marine Science*, 52, 102256, doi: <https://doi.org/10.1016/j.rsma.2022.102256>.
- Tan, Z., B. Zhang, X. Wu, M. Dong, and L. Cheng (2022), Quality control for ocean observations: From present to future, *Sci. China Earth Sci.*, 65(2), 215-233, doi: <https://doi.org/10.1007/s11430-021-9846-7>.
- Tanioka, T., C. A. Garcia, A. A. Larkin, N. S. Garcia, A. J. Fagan, and A. C. Martiny (2022), Global patterns and predictors of C:N:P in marine ecosystems, *Communications Earth & Environment*, 3(1), 271, doi: <https://doi.org/10.1038/s43247-022-00603-6>.
- Tedesco, P., J. Gula, P. Penven, and C. Ménesguen (2022), Mesoscale Eddy Kinetic Energy Budgets and Transfers between Vertical Modes in the Agulhas Current, *J. Phys. Oceanogr.*, 52(4), 677-704, doi: <https://doi.org/10.1175/JPO-D-21-0110.1>.
- Tesdal, J.-E., H. W. Ducklow, J. I. Goes, and I. Yashayaev (2022), Recent nutrient enrichment and high biological productivity in the Labrador Sea is tied to enhanced winter convection, *Prog. Oceanogr.*, 206, 102848, doi: <https://doi.org/10.1016/j.pocean.2022.102848>.
- Thomas, E. E., and M. Müller (2022), Characterizing vertical upper ocean temperature structures in the European Arctic through unsupervised machine learning, *Ocean Model.*, 177, 102092, doi: <https://doi.org/10.1016/j.ocemod.2022.102092>.
- Thoppil, P. G., A. J. Wallcraft, and T. G. Jensen (2022), Winter Convective Mixing in the Northern Arabian Sea during Contrasting Monsoons, *J. Phys. Oceanogr.*, 52(3), 313-327, doi: <https://doi.org/10.1175/JPO-D-21-0144.1>.
- Thoral, F., S. Montie, M. S. Thomsen, L. W. Tait, M. H. Pinkerton, and D. R. Schiel (2022), Unravelling seasonal trends in coastal marine heatwave metrics across global biogeographical realms, *Scientific Reports*, 12(1), 7740, doi: <https://doi.org/10.1038/s41598-022-11908-z>.
- Thorpe, S. E., and E. J. Murphy (2022), Spatial and temporal variability and connectivity of the marine environment of the South Sandwich Islands, Southern Ocean, *Deep Sea*

- Research Part II: Topical Studies in Oceanography*, 198, 105057, doi:
<https://doi.org/10.1016/j.dsr2.2022.105057>.
- Thouvenin-Masson, C., J. Boutin, J.-L. Vergely, G. Reverdin, A. C. H. Martin, S. Guimbard, N. Reul, R. Sabia, R. Catany, and O. Hembise Fanton-d'Andon (2022), Satellite and In Situ Sampling Mismatches: Consequences for the Estimation of Satellite Sea Surface Salinity Uncertainties, *Remote Sensing*, 14(8), 1878, doi:
<https://doi.org/10.3390/rs14081878>.
- Tian, T., L. Cheng, G. Wang, J. Abraham, W. Wei, S. Ren, J. Zhu, J. Song, and H. Leng (2022), Reconstructing ocean subsurface salinity at high resolution using a machine learning approach, *Earth Syst. Sci. Data*, 14(11), 5037-5060, doi:
<https://doi.org/10.5194/essd-14-5037-2022>.
- Tian, T., H. Leng, G. Wang, G. Li, J. Song, J. Zhu, and Y. An (2022), Comparison of Machine Learning Approaches for Reconstructing Sea Subsurface Salinity Using Synthetic Data, *Remote Sensing*, 14(22), doi: <https://doi.org/10.3390/rs14225650>.
- Tilliette, C., et al. (2022), Dissolved Iron Patterns Impacted by Shallow Hydrothermal Sources Along a Transect Through the Tonga-Kermadec Arc, *Glob. Biogeochem. Cycle*, 36(7), e2022GB007363, doi: <https://doi.org/10.1029/2022GB007363>.
- Toualy, E., B. Kouacou, and A. Aman (2022), Influence of Wind and Surface Buoyancy Flux on the Variability of the Oceanic Mixed Layer Depth in the Northern Gulf of Guinea Coastal Upwelling, *Thalassas: An International Journal of Marine Sciences*, 38(1), 599-608, doi: <https://doi.org/10.1007/s41208-021-00358-5>.
- Tozuka, T., Y. Sasai, S. Yasunaka, H. Sasaki, and M. Nonaka (2022), Simulated decadal variations of surface and subsurface phytoplankton in the upstream Kuroshio Extension region, *Prog. in Earth and Planet. Sci.*, 9(1), 70, doi:
<https://doi.org/10.1186/s40645-022-00532-0>.
- Trossman, D. S., and R. H. Tyler (2022), A Prototype for Remote Monitoring of Ocean Heat Content Anomalies, *J. Atmos. Ocean. Technol.*, 39(5), 667-688, doi:
<https://doi.org/10.1175/JTECH-D-21-0037.1>.
- Trossman, D. S., C. B. Whalen, T. W. N. Haine, A. F. Waterhouse, A. T. Nguyen, A. Bigdeli, M. Mazloff, and P. Heimbach (2022), Tracer and observationally derived constraints on diapycnal diffusivities in an ocean state estimate, *Ocean Sci.*, 18(3), 729-759, doi:
<https://doi.org/10.5194/os-18-729-2022>.
- Tuchen, F. P., P. Brandt, J. F. Lübbecke, and R. Hummels (2022), Transports and Pathways of the Tropical AMOC Return Flow From Argo Data and Shipboard Velocity Measurements, *Journal of Geophysical Research: Oceans*, 127(2), e2021JC018115, doi:
<https://doi.org/10.1029/2021JC018115>.
- Ueno, H., M. Oda, K. Yasui, R. Dobashi, and H. Mitsudera (2022), Global Distribution and Interannual Variation in the Winter Halocline, *J. Phys. Oceanogr.*, 52(4), 665-676, doi:
<https://doi.org/10.1175/JPO-D-21-0056.1>.
- Ushijima, Y., and Y. Yoshikawa (2022), Nonlinearly interacting entrainment due to shear and convection in the surface ocean, *Scientific Reports*, 12(1), 9899, doi:
<https://doi.org/10.1038/s41598-022-14098-w>.
- Våge, K., S. Semper, H. Valdimarsson, S. Jónsson, R. S. Pickart, and G. W. K. Moore (2022), Water mass transformation in the Iceland Sea: Contrasting two winters separated by

- four decades, *Deep Sea Research Part I: Oceanographic Research Papers*, 186, 103824, doi: <https://doi.org/10.1016/j.dsr.2022.103824>.
- Valsala, V., A. G. Prajeesh, and S. Singh (2022), Numerical Investigation of Tropical Indian Ocean Barrier Layer Variability, *Journal of Geophysical Research: Oceans*, 127(10), e2022JC018637, doi: <https://doi.org/10.1029/2022JC018637>.
- van der Boog, C. G., H. A. Dijkstra, J. D. Pietrzak, and C. A. Katsman (2022), Spatial Variations of Antarctic Intermediate Water in the Caribbean Sea Due To Vertical Mixing Along Its Path, *Geophys. Res. Lett.*, 49(3), e2021GL095977, doi: <https://doi.org/10.1029/2021GL095977>.
- van Wijk, E. M., S. R. Rintoul, L. O. Wallace, N. Ribeiro, and L. Herraiz-Borreguero (2022), Vulnerability of Denman Glacier to Ocean Heat Flux Revealed by Profiling Float Observations, *Geophys. Res. Lett.*, 49(18), e2022GL100460, doi: <https://doi.org/10.1029/2022GL100460>.
- Vargas-Yáñez, M., F. Moya, R. Balbín, R. Santiago, E. Ballesteros, R. F. Sánchez-Leal, P. Romero, and M. C. García-Martínez (2022), Seasonal and Long-Term Variability of the Mixed Layer Depth and its Influence on Ocean Productivity in the Spanish Gulf of Cádiz and Mediterranean Sea, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.901893>.
- Vincent, F., F. M. Ibarbalz, and C. Bowler (2022), Chapter 15 - Global marine phytoplankton revealed by the Tara Oceans expedition, in *Advances in Phytoplankton Ecology*, edited by L. A. Clementson, R. S. Eriksen and A. Willis, pp. 531-561, Elsevier, doi: <https://doi.org/10.1016/B978-0-12-822861-6.00024-8>.
- von Schuckman, K., and P.-Y. LeTraon (2022), Copernicus Ocean State Report, issue 6, *J. Oper. Oceanogr.*, 15(sup1), 1-220, doi: <https://doi.org/10.1080/1755876X.2022.2095169>.
- Voronina, N. (2022), Variants of Visualization of the Marine Forecast on the Examples of the Crimean Basin of the Black Sea, in *Processes in GeoMedia—Volume V*, edited by T. Chaplina, pp. 233-242, Springer International Publishing, Cham, doi: https://doi.org/10.1007/978-3-030-85851-3_26.
- Wang, B., and K. Fennel (2022), Biogeochemical-Argo data suggest significant contributions of small particles to the vertical carbon flux in the subpolar North Atlantic, *Limnol. Oceanogr.*, 67(11), 2405-2417, doi: <https://doi.org/10.1002/lno.12209>.
- Wang, F., Y. Shen, Q. Chen, and J. Geng (2022), Revisiting sea-level budget by considering all potential impact factors for global mean sea-level change estimation, *Scientific Reports*, 12(1), 10251, doi: <https://doi.org/10.1038/s41598-022-14173-2>.
- Wang, J., Y. Cheng, H. Lu, X. Chen, L. Lin, and J. Zhang (2022), Water Temperature at Different Depths Affects the Distribution of Neon Flying Squid (*Ommastrephes bartramii*) in the Northwest Pacific Ocean, *Frontiers in Marine Science*, 8, doi: <https://doi.org/10.3389/fmars.2021.741620>.
- Wang, J., W. Sun, and J. Zhang (2022), Error Characterization of Satellite SSS Products Based on Extended Collocation Analysis, *IEEE Trans. Geosci. Remote Sensing*, 60, 1-11, doi: <https://doi.org/10.1109/TGRS.2021.3107840>.
- Wang, P., K. Mao, X. Chen, and K. Liu (2022), The Three-Dimensional Structure of the Mesoscale Eddy in the Kuroshio Extension Region Obtained from Three Datasets,

- Journal of Marine Science and Engineering*, 10(11), doi:
<https://doi.org/10.3390/jmse10111754>.
- Wang, Q., C. Pang, and C. Dong (2022), Role of submesoscale processes in the isopycnal mixing associated with subthermocline eddies in the Philippine Sea, *Deep Sea Research Part II: Topical Studies in Oceanography*, 202, 105148, doi:
<https://doi.org/10.1016/j.dsr2.2022.105148>.
- Wang, Q., Z. Qiu, S. Yang, H. Li, and X. Li (2022), Design and experimental research of a novel deep-sea self-sustaining profiling float for observing the northeast off the Luzon Island, *Scientific Reports*, 12(1), 18885, doi:
<https://doi.org/10.1038/s41598-022-23208-7>.
- Wang, R., F. Nan, F. Yu, and B. Wang (2022), Impingement of Subsurface Anticyclonic Eddies on the Kuroshio Mainstream East of Taiwan, *Journal of Geophysical Research: Oceans*, 127(11), e2022JC018950, doi: <https://doi.org/10.1029/2022JC018950>.
- Wang, R., F. Nan, F. Yu, and B. Wang (2022), Subantarctic Mode Water Variations in the Three Southern Hemisphere Ocean Basins During 2004–2019, *Journal of Geophysical Research: Oceans*, 127(7), e2021JC017906, doi:
<https://doi.org/10.1029/2021JC017906>.
- Wang, T., F. Chen, S. Zhang, J. Pan, A. T. Devlin, H. Ning, and W. Zeng (2022), Physical and Biochemical Responses to Sequential Tropical Cyclones in the Arabian Sea, *Remote Sensing*, 14(3), 529, doi: <https://doi.org/10.3390/rs14030529>.
- Wang, T., Y. Du, and M. Wang (2022), Overlooked Current Estimation Biases Arising from the Lagrangian Argo Trajectory Derivation Method, *J. Phys. Oceanogr.*, 52(1), 3-19, doi:
<https://doi.org/10.1175/JPO-D-20-0287.1>.
- Wang, T., T. Suga, and S. Kouketsu (2022), Spiciness anomalies in the upper North Pacific based on Argo observations, *Frontiers in Marine Science*, 9, doi:
<https://doi.org/10.3389/fmars.2022.1006042>.
- Wang, T., H. Zhang, L. Gao, and L. Zhu (2022), Comparison of physical and biological responses to tropical cyclones between the low and middle latitude zones of the western North Pacific, *Regional Studies in Marine Science*, 55, 102535, doi:
<https://doi.org/10.1016/j.rsma.2022.102535>.
- Wang, X., C. Liu, A. Köhl, W. Geng, F. Wang, and D. Stammer (2022), The adjoint-based Two Oceans One Sea State Estimate (TOOSSE), *Journal of Oceanology and Limnology*, 40(1), 1-21, doi: <https://doi.org/10.1007/s00343-021-0439-9>.
- Wang, Y., K. J. Heywood, D. P. Stevens, and G. M. Damerell (2022), Seasonal extrema of sea surface temperature in CMIP6 models, *Ocean Sci.*, 18(3), 839-855, doi:
<https://doi.org/10.5194/os-18-839-2022>.
- Wang, Y., H. Liu, Z. Yu, P. Lin, and M. Ding (2022), Simulated sea levels during 1948–2009 in a global ocean-sea ice model for OMIP, *Deep Sea Research Part II: Topical Studies in Oceanography*, 199, 105082, doi: <https://doi.org/10.1016/j.dsr2.2022.105082>.
- Wang, Y., T. Qu, Y. Luo, and R. A. Fine (2022), An Anti-Phase Relationship Between the Subtropical Underwater and Eastern Subtropical Mode Water in the South Pacific During 2004–2020, *Geophys. Res. Lett.*, 49(2), e2021GL096601, doi:
<https://doi.org/10.1029/2021GL096601>.
- Wang, Z., X. Shi, and H. Huang (2022), Observation of physical oceanography at the Y3

- seamount (Yap Arc) in winter 2014, *Journal of Oceanology and Limnology*, 40(4), 1314-1332, doi: <https://doi.org/10.1007/s00343-021-1164-0>.
- Wang, Z., J. Yang, C. Johnson, and B. DeTracey (2022), Changes in Deep Ocean Contribute to a "See-Sawing" Gulf Stream Path, *Geophys. Res. Lett.*, 49(21), e2022GL100937, doi: <https://doi.org/10.1029/2022GL100937>.
- Wei, L., and L. Guan (2022), Seven-day sea surface temperature prediction using a 3DConv-LSTM model, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.905848>.
- Weis, J., C. Schallenberg, Z. Chase, A. R. Bowie, B. Wojtasiewicz, M. M. G. Perron, M. D. Mallet, and P. G. Strutton (2022), Southern Ocean Phytoplankton Stimulated by Wildfire Emissions and Sustained by Iron Recycling, *Geophys. Res. Lett.*, 49(11), e2021GL097538, doi: <https://doi.org/10.1029/2021GL097538>.
- Wiese, F. K., G. Auad, E. K. Marino, and M. G. Briscoe (2022), Chapter 10 - Lessons learned from nine partnerships in marine research, in *Partnerships in Marine Research*, edited by G. Auad and F. K. Wiese, pp. 167-181, Elsevier, doi: <https://doi.org/10.1016/B978-0-323-90427-8.00010-1>.
- Wilkin, J., J. Levin, A. Moore, H. Arango, A. López, and E. Hunter (2022), A data-assimilative model reanalysis of the U.S. Mid Atlantic Bight and Gulf of Maine: Configuration and comparison to observations and global ocean models, *Prog. Oceanogr.*, 209, 102919, doi: <https://doi.org/10.1016/j.pocean.2022.102919>.
- Woods, K., et al. (2022), Using Seafloor Geodesy to Detect Vertical Deformation at the Hikurangi Subduction Zone: Insights From Self-Calibrating Pressure Sensors and Ocean General Circulation Models, *Journal of Geophysical Research: Solid Earth*, 127(12), e2022JB023989, doi: <https://doi.org/10.1029/2022JB023989>.
- Wu, B., L. Xu, and X. Lin (2022), Decadal to Multidecadal Variability of the Western North Pacific Subtropical Front and Countercurrent, *Journal of Geophysical Research: Oceans*, 127(2), e2021JC018059, doi: <https://doi.org/10.1029/2021JC018059>.
- Wu, J., J. He, and G. Christakos (2022), Chapter 6 - Modern geostatistics, in *Quantitative Analysis and Modeling of Earth and Environmental Data*, edited by J. Wu, J. He and G. Christakos, pp. 213-266, Elsevier, doi: <https://doi.org/10.1016/B978-0-12-816341-2.00013-7>.
- Wu, J., J. He, and G. Christakos (2022), Chapter 9 - Chronotopologic BME estimation, in *Quantitative Analysis and Modeling of Earth and Environmental Data*, edited by J. Wu, J. He and G. Christakos, pp. 345-383, Elsevier, doi: <https://doi.org/10.1016/B978-0-12-816341-2.00015-0>.
- Wu, K., H. Cao, and G. Liao (2022), Submesoscale frontal waves and instabilities driven by sheared flows, *Deep Sea Research Part II: Topical Studies in Oceanography*, 202, 105145, doi: <https://doi.org/10.1016/j.dsr2.2022.105145>.
- Wu, R., L. Jia, C. Li, Y. Liu, B. Han, and D. Chen (2022), Impact of Horizontal Resolution (Submesoscale Permitting vs. Mesoscale Resolving) on Ocean Dynamic Features in the South China Sea, *Earth and Space Science*, 9(10), e2022EA002448, doi: <https://doi.org/10.1029/2022EA002448>.
- Wu, Y., D. C. E. Bakker, E. P. Achterberg, A. N. Silva, D. D. Pickup, X. Li, S. Hartman, D. Stappard, D. Qi, and T. Tyrrell (2022), Integrated analysis of carbon dioxide and

- oxygen concentrations as a quality control of ocean float data, *Communications Earth & Environment*, 3(1), 92, doi: <https://doi.org/10.1038/s43247-022-00421-w>.
- Wu, Y., and D. Qi (2022), Inconsistency between ship- and Argo float-based pCO₂ at the intense upwelling region of the Drake Passage, Southern Ocean, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.1002398>.
- Wyatt, A. M., L. Resplandy, and A. Marchetti (2022), Ecosystem impacts of marine heat waves in the northeast Pacific, *Biogeosciences*, 19(24), 5689-5705, doi: <https://doi.org/10.5194/bg-19-5689-2022>.
- Xia, C., X. Ge, H. LÜ, H. Zhang, X. Xing, and Y. Cui (2022), A phytoplankton bloom with a cyclonic eddy enhanced by the tropical cyclone Phethai in eastern Sri Lanka, *Regional Studies in Marine Science*, 51, 102217, doi: <https://doi.org/10.1016/j.rsma.2022.102217>.
- Xia, Q., C. Dong, Y. He, G. Li, and J. Dong (2022), Lagrangian Study of Several Long-Lived Agulhas Rings, *J. Phys. Oceanogr.*, 52(6), 1049-1072, doi: <https://doi.org/10.1175/JPO-D-21-0079.1>.
- Xia, X., Y. Hong, Y. Du, and P. Xiu (2022), Three Types of Antarctic Intermediate Water Revealed by a Machine Learning Approach, *Geophys. Res. Lett.*, 49(21), e2022GL099445, doi: <https://doi.org/10.1029/2022GL099445>.
- Xia, Y., and Y. Du (2022), Middepth Zonal Velocity in the Southern Tropical Indian Ocean: Striation-Like Structures and Their Dynamics, *J. Phys. Oceanogr.*, 52(11), 2825-2840, doi: <https://doi.org/10.1175/JPO-D-21-0222.1>.
- Xiao, C., X. Tong, D. Li, X. Chen, Q. Yang, X. Xu, H. Lin, and M. Huang (2022), Prediction of long lead monthly three-dimensional ocean temperature using time series gridded Argo data and a deep learning method, *International Journal of Applied Earth Observation and Geoinformation*, 112, 102971, doi: <https://doi.org/10.1016/j.jag.2022.102971>.
- Xie, Y., Q. Wang, L. Zeng, J. Chen, and Y. He (2022), Winter–Summer Transition in the Southern South China Sea Western Boundary Current, *J. Phys. Oceanogr.*, 52(11), 2669-2686, doi: <https://doi.org/10.1175/JPO-D-21-0282.1>.
- Xing, H., W. Wang, D. Wang, and K. Xu (2022), Roles of Equatorial Ocean Currents in Sustaining the Indian Ocean Dipole Peak, *Journal of Ocean University of China*, 21(3), 622-632, doi: <https://doi.org/10.1007/s11802-022-4864-y>.
- Xing, X., Z. Lee, P. Xiu, S. Chen, and F. Chai (2022), A Dual-Band Model for the Vertical Distribution of Photosynthetically Available Radiation (PAR) in Stratified Waters, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.928807>.
- Xiong, X., X. Cheng, N. Ou, T. Feng, J. Qin, X. Chen, and R. X. Huang (2022), Dynamics of seasonal and interannual variability of the ocean bottom pressure in the Southern Ocean, *Acta Oceanol. Sin.*, 41(5), 78-89, doi: <https://doi.org/10.1007/s13131-021-1878-z>.
- Xu, D., T. Wang, X. Xing, and C. Bian (2022), The Relationship Between Nitrate and Potential Density in the Ocean South of 30°S, *Journal of Geophysical Research: Oceans*, 127(11), e2022JC018948, doi: <https://doi.org/10.1029/2022JC018948>.
- Xu, G., P. Chang, S. Ramachandran, G. Danabasoglu, S. Yeager, J. Small, Q. Zhang, Z. Jing, and L. Wu (2022), Impacts of Model Horizontal Resolution on Mean Sea Surface

- Temperature Biases in the Community Earth System Model, *Journal of Geophysical Research: Oceans*, 127(12), e2022JC019065, doi: <https://doi.org/10.1029/2022JC019065>.
- Xu, H., Y. Shan, and G. Xu (2022), Performance of SMAP and SMOS Salinity Products under Tropical Cyclones in the Bay of Bengal, *Remote Sensing*, 14(15), 3733, doi: <https://doi.org/10.3390/rs14153733>.
- Xu, L., K. Wang, and B. Wu (2022), Weakening and Poleward Shifting of the North Pacific Subtropical Fronts from 1980 to 2018, *J. Phys. Oceanogr.*, 52(3), 399-417, doi: <https://doi.org/10.1175/JPO-D-21-0170.1>.
- Xu, M., Y. Wang, J. Zhang, D. Yang, X. Yin, Y. Gao, G. Wang, and X. Lv (2022), Data assimilation in a regional high-resolution ocean model by using Ensemble Adjustment Kalman Filter and its application during 2020 cold spell event over Asia-Pacific region, *Applied Ocean Research*, 129, 103375, doi: <https://doi.org/10.1016/j.apor.2022.103375>.
- Xu, X., E. P. Chassignet, S. Dong, and M. O. Baringer (2022), Transport Structure of the South Atlantic Ocean Derived From a High-Resolution Numerical Model and Observations, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.811398>.
- Xue, T., I. Frenger, A. Oschlies, C. A. Stock, W. Koeve, J. G. John, and A. E. F. Prowe (2022), Mixed Layer Depth Promotes Trophic Amplification on a Seasonal Scale, *Geophys. Res. Lett.*, 49(12), e2022GL098720, doi: <https://doi.org/10.1029/2022GL098720>.
- Yang, B., S. R. Emerson, and M. F. Cronin (2022), Skin Temperature Correction for Calculations of Air-Sea Oxygen Flux and Annual Net Community Production, *Geophys. Res. Lett.*, 49(3), e2021GL096103, doi: <https://doi.org/10.1029/2021GL096103>.
- Yang, F., and Z. Wu (2022), On the physical origin of the semiannual component of surface air temperature over oceans, *Climate Dynamics*, 59(7), 2137-2149, doi: <https://doi.org/10.1007/s00382-022-06199-z>.
- Yang, H., R. Zhu, Z. Chen, J. Li, and L. Wu (2022), Temperature Variability and Eddy-Flow Interaction in the South of Oyashio Extension, *Journal of Geophysical Research: Oceans*, 127(11), e2022JC019051, doi: <https://doi.org/10.1029/2022JC019051>.
- Yang, J., X. Cheng, J. Qin, G. Zhou, and L. Li (2022), The Synoptic and Interannual Variability of Extreme Turbulent Heat Flux Events During Austral Winter in the Southern Indian Ocean, *Journal of Geophysical Research: Atmospheres*, 127(1), e2021JD035792, doi: <https://doi.org/10.1029/2021JD035792>.
- Yang, L., R. Murtugudde, S. Zheng, P. Liang, W. Tan, L. Wang, B. Feng, and T. Zhang (2022), Seasonal Variability of the Pacific South Equatorial Current during the Argo Era, *J. Phys. Oceanogr.*, 52(10), 2289-2304, doi: <https://doi.org/10.1175/JPO-D-21-0311.1>.
- Yang, X., G. Han, C. Ma, C. Cao, J. Yang, and G. Chen (2022), Satellite observed shape-based overall rotation—A new aspect in eddy kinematics, *Acta Oceanol. Sin.*, 41(5), 183-194, doi: <https://doi.org/10.1007/s13131-021-1970-4>.
- Yang, X., P. G. Strutton, A. Cyriac, H. E. Phillips, N. A. Pittman, and C. R. Vives (2022), Physical Drivers of Biogeochemical Variability in the Polar Front Meander, *Journal of Geophysical Research: Oceans*, 127(6), e2021JC017863, doi: <https://doi.org/10.1029/2021JC017863>.

- Yang, Y., W. Feng, M. Zhong, D. Mu, and Y. Yao (2022), Basin-Scale Sea Level Budget from Satellite Altimetry, Satellite Gravimetry, and Argo Data over 2005 to 2019, *Remote Sensing*, 14(18), 4637, doi: <https://doi.org/10.3390/rs14184637>.
- Yasunaka, S., T. Ono, K. Sasaoka, and K. Sato (2022), Global distribution and variability of subsurface chlorophyll a concentrations, *Ocean Sci.*, 18(1), 255-268, doi: <https://doi.org/10.5194/os-18-255-2022>.
- Ye, X., J. Liu, M. Lin, J. Ding, B. Zou, Q. Song, and Y. Teng (2022), Evaluation of Sea Surface Temperatures Derived From the HY-1D Satellite, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 15, 654-665, doi: <https://doi.org/10.1109/JSTARS.2021.3137230>.
- Yoon, S.-T., and J. Park (2022), Warm bias of cold sea surface temperatures in the East Sea (Japan Sea), *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.965346>.
- Yu, D., M. Zhou, C. Hang, and D.-Z. Sun (2022), A Nonlinear Cause for the Seasonal Predictability Barrier of SST Anomaly in the Tropical Pacific, *Journal of Geophysical Research: Oceans*, 127(10), e2022JC018723, doi: <https://doi.org/10.1029/2022JC018723>.
- Yu, Y., S. T. Gille, D. T. Sandwell, and J. McAuley (2022), Global Mesoscale Ocean Variability from Multiyear Altimetry: An Analysis of the Influencing Factors, *Artificial Intelligence for the Earth Systems*, 1(3), e210008, doi: <https://doi.org/10.1175/AIES-D-21-0008.1>.
- Yu, Z., B. Li, H. Li, J. Zhang, and J. Chen (2022), The influence of seasonal calcification depth change on the planktonic foraminiferal stable oxygen isotope signal, *Geochimica et Cosmochimica Acta*, 327, 34-52, doi: <https://doi.org/10.1016/j.gca.2022.04.014>.
- Yuan, D., et al. (2022), A Maluku Sea intermediate western boundary current connecting Pacific Ocean circulation to the Indonesian Throughflow, *Nature Communications*, 13(1), 2093, doi: <https://doi.org/10.1038/s41467-022-29617-6>.
- Yunev, O., J. Carstensen, L. Stelmakh, V. Belokopytov, and V. Suslin (2022), Temporal changes of phytoplankton biomass in the western Black Sea shelf waters: Evaluation by satellite data (1998–2018), *Estuarine, Coastal and Shelf Science*, 271, 107865, doi: <https://doi.org/10.1016/j.ecss.2022.107865>.
- Zarokanellos, N. D., D. L. Rudnick, M. Garcia-Jove, B. Mourre, S. Ruiz, A. Pascual, and J. Tintoré (2022), Frontal Dynamics in the Alboran Sea: 1. Coherent 3D Pathways at the Almeria-Oran Front Using Underwater Glider Observations, *Journal of Geophysical Research: Oceans*, 127(3), e2021JC017405, doi: <https://doi.org/10.1029/2021JC017405>.
- Zavala-Garay, J., and J. Theiss (2022), Seasonal Instability of the Western Equatorial Indian Ocean, *Journal of Geophysical Research: Oceans*, 127(1), e2021JC017875, doi: <https://doi.org/10.1029/2021JC017875>.
- Zemskova, V. E., T.-L. He, Z. Wan, and N. Grisouard (2022), A deep-learning estimate of the decadal trends in the Southern Ocean carbon storage, *Nature Communications*, 13(1), 4056, doi: <https://doi.org/10.1038/s41467-022-31560-5>.
- Zhai, X., and Z. Yang (2022), Eddy-induced meridional transport variability at ocean western boundary, *Ocean Model.*, 171, 101960, doi: <https://doi.org/10.1016/j.ocemod.2022.101960>.

- Zhang, C., D. Wang, Z. Liu, S. Lu, C. Sun, Y. Wei, and M. Zhang (2022), Global Gridded Argo Dataset Based on Gradient-Dependent Optimal Interpolation, *Journal of Marine Science and Engineering*, 10(5), 650, doi: <https://doi.org/10.3390/jmse10050650>.
- Zhang, C., D. Wang, and Z. Wang (2022), Fishery analysis using gradient-dependent optimal interpolation, *Acta Oceanol. Sin.*, 41(2), 116-126, doi: <https://doi.org/10.1007/s13131-021-1895-y>.
- Zhang, J., Y. Luo, W. Jing, and D. Wu (2022), Volume Budget of Antarctic Intermediate Water in the Southern Ocean from an Eddy-Resolving Ocean Simulation, *Atmos.-Ocean*, 1-11, doi: <https://doi.org/10.1080/07055900.2022.2118568>.
- Zhang, L., T. L. Delworth, X. Yang, F. Zeng, F. Lu, Y. Morioka, and M. Bushuk (2022), The relative role of the subsurface Southern Ocean in driving negative Antarctic Sea ice extent anomalies in 2016–2021, *Communications Earth & Environment*, 3(1), 302, doi: <https://doi.org/10.1038/s43247-022-00624-1>.
- Zhang, L., M. Jiang, and F. Jing (2022), Sea temperature variation associated with the 2021 Haiti Mw 7.2 earthquake and possible mechanism, *Geomatics, Natural Hazards and Risk*, 13(1), 2840-2863, doi: <https://doi.org/10.1080/19475705.2022.2137439>.
- Zhang, Q., F. Yu, and G. Chen (2022), Site selection for the validation of wide-swath interferometric altimeter in the South China Sea, *Int. J. Remote Sens.*, 43(2), 549-564, doi: <https://doi.org/10.1080/01431161.2021.2020365>.
- Zhang, W., and D. Gu (2022), Geostationary satellite reveals increasing marine isoprene emissions in the center of the equatorial Pacific Ocean, *npj Climate and Atmospheric Science*, 5(1), 83, doi: <https://doi.org/10.1038/s41612-022-00311-0>.
- Zhang, W., W. Wang, and H. Xing (2022), Decadal variation and trend of the upper layer salinity in the South China Sea from 1960 to 2010, *Journal of Oceanology and Limnology*, 40(4), 1333-1348, doi: <https://doi.org/10.1007/s00343-021-1161-3>.
- Zhang, X., J. Li, Q. Dong, Z. Wang, H. Zhang, and X. Liu (2022), Bridging the gap between GRACE and GRACE-FO using a hydrological model, *Science of The Total Environment*, 822, 153659, doi: <https://doi.org/10.1016/j.scitotenv.2022.153659>.
- Zhang, Y., and Y. Du (2022), Oceanic Rossby Waves Induced Two Types of Ocean–Atmosphere Response and Opposite Indian Ocean Dipole Phases, *J. Clim.*, 35(12), 3927-3945, doi: <https://doi.org/10.1175/JCLI-D-21-0426.1>.
- Zhang, Y., C. Hu, V. H. Kourafalou, Y. Liu, D. J. McGillicuddy, B. B. Barnes, and J. M. Hummon (2022), Physical Characteristics and Evolution of a Long-Lasting Mesoscale Cyclonic Eddy in the Straits of Florida, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.779450>.
- Zhang, Z., P. Chen, and Z. Mao (2022), SOLS: An Open-Source Spaceborne Oceanic Lidar Simulator, *Remote Sensing*, 14(8), 1849, doi: <https://doi.org/10.3390/rs14081849>.
- Zhang, Z., Z. Ma, J. Fei, Y. Zheng, and J. Huang (2022), The effects of tropical cyclones on characteristics of barrier layer thickness, *Frontiers in Earth Science*, 10, doi: <https://doi.org/10.3389/feart.2022.962232>.
- Zhang, Z., J. Wang, and D. Yuan (2022), Mixed Layer Salinity Balance in the Eastern Tropical Indian Ocean, *Journal of Geophysical Research: Oceans*, 127(6), e2021JC018229, doi: <https://doi.org/10.1029/2021JC018229>.
- Zhao, B., et al. (2022), The Effects of Ocean Surface Waves on Tropical Cyclone Intensity:

- Numerical Simulations Using a Regional Atmosphere-Ocean-Wave Coupled Model, *Journal of Geophysical Research: Oceans*, 127(11), e2022JC019015, doi: <https://doi.org/10.1029/2022JC019015>.
- Zhao, J., W. Liang, J. Ma, M. Liu, and Y. Li (2022), A Self-Constraint Underwater Positioning Method without the Assistance of Measured Sound Velocity Profile, *Mar. Geod.*, 1-21, doi: <https://doi.org/10.1080/01490419.2022.2079778>.
- Zhao, X., and D. Yuan (2022), Evaluation of intraseasonal wind rectification on recent Indian Ocean dipole events using LICOM, *Climate Dynamics*, 58(3), 981-998, doi: <https://doi.org/10.1007/s00382-021-05943-1>.
- Zhao, Y., Y. Yang, X. S. Liang, and Y. Zhang (2022), Different mechanisms for the seasonal variations of the mesoscale eddy energy in the South China Sea, *Deep Sea Research Part I: Oceanographic Research Papers*, 179, 103677, doi: <https://doi.org/10.1016/j.dsr.2021.103677>.
- Zhao, Z., Y. Yan, S. Qi, S. Liu, Z. Chen, and J. Yang (2022), Cyclonic and Anticyclonic Asymmetry of Reef and Atoll Wakes in the Xisha Archipelago, *Atmosphere*, 13(10), 1740, doi: <https://doi.org/10.3390/atmos13101740>.
- Zheng, H., Y. Ma, J. Huang, J. Yang, D. Su, F. Yang, and X. H. Wang (2022), Deriving vertical profiles of chlorophyll-a concentration in the upper layer of seawaters using ICESat-2 photon-counting lidar, *Opt. Express*, 30(18), 33320-33336, doi: <https://doi.org/10.1364/OE.463622>.
- Zheng, H., et al. (2022), Observation of Bottom-Trapped Topographic Rossby Waves to the West of the Luzon Strait, South China Sea, *J. Phys. Oceanogr.*, 52(11), 2853-2872, doi: <https://doi.org/10.1175/JPO-D-22-0065.1>.
- Zheng, H., X.-H. Zhu, C. Zhang, R. Zhao, Z.-N. Zhu, Q. Ren, Y. Liu, F. Nan, and F. Yu (2022), Observation of Abyssal Circulation to the West of the Luzon Strait, South China Sea, *J. Phys. Oceanogr.*, 52(9), 2091-2109, doi: <https://doi.org/10.1175/JPO-D-21-0284.1>.
- Zhi, H., Y. Huang, P. Lin, S. Shi, and M. Dong (2022), Interannual variability of the sea surface salinity and its related freshwater flux in the tropical Pacific: A comparison of CMIP5 and CMIP6, *Atmospheric and Oceanic Science Letters*, 100190, doi: <https://doi.org/10.1016/j.aosl.2022.100190>.
- Zhibing, L., C. Zhongya, L. Zhiqiang, W. Xiaohua, and H. Jianyu (2022), A novel identification method for unrevealed mesoscale eddies with transient and weak features-Capricorn Eddies as an example, *Remote Sens. Environ.*, 274, 112981, doi: <https://doi.org/10.1016/j.rse.2022.112981>.
- Zhmur, V. V., E. V. Novoselova, and T. V. Belonenko (2022), Peculiarities of Formation of the Density Field in Mesoscale Eddies of the Lofoten Basin: Part 2, *Oceanology*, 62(3), 289-302, doi: <https://doi.org/10.1134/S0001437022030171>.
- Zhou, G., and R.-H. Zhang (2022), Structure and Evolution of Decadal Spiciness Variability in the North Pacific during 2004–20, Revealed from Argo Observations, *Adv. Atmos. Sci.*, 39(6), 953-966, doi: <https://doi.org/10.1007/s00376-021-1358-6>.
- Zhou, L., C. Heuzé, and M. Mohrmann (2022), Early Winter Triggering of the Maud Rise Polynya, *Geophys. Res. Lett.*, 49(2), e2021GL096246, doi: <https://doi.org/10.1029/2021GL096246>.
- Zhou, W., H. Hu, W. Fan, and S. Jin (2022), Impact of Abnormal Climatic Events on the CPUE

- of Yellowfin Tuna Fishing in the Central and Western Pacific, *Sustainability*, 14(3), 1217, doi: <https://doi.org/10.3390/su14031217>.
- Zhou, X., Y. Qiu, X. Lin, H. Teng, and C. Aung (2022), An Intrathermocline Eddy Observed in the Northeastern Bay of Bengal, *Geophys. Res. Lett.*, 49(12), e2022GL099201, doi: <https://doi.org/10.1029/2022GL099201>.
- Zhu, J., Y. Zhang, X. Cheng, X. Wang, Q. Sun, and Y. Du (2022), Effect of mesoscale eddies on the transport of low-salinity water from the Bay of Bengal into the Arabian Sea during winter, *Geosci. Lett.*, 9(1), 37, doi: <https://doi.org/10.1186/s40562-022-00246-7>.
- Zhu, Y., R.-H. Zhang, and D. Li (2022), An ocean modeling study to quantify wind forcing and oceanic mixing effects on the tropical North Pacific subsurface warm bias in CMIP and OMIP simulations, *Climate Dynamics*, 58(3), 999-1014, doi: <https://doi.org/10.1007/s00382-021-05946-y>.
- Zou, L., X. Wang, Z. Wen, Z. Yu, and X. Ma (2022), Distribution characteristics of pycnocline in the northern South China Sea based on an improved vertical gradient method, *J. Oceanogr.*, 78(6), 449-466, doi: <https://doi.org/10.1007/s10872-022-00652-7>.

2021 (549)

- Abdalla, S., et al. (2021), Altimetry for the future: Building on 25 years of progress, *Advances in Space Research*, 68(2), 319-363, doi: <https://doi.org/10.1016/j.asr.2021.01.022>.
- Achterberg, E. P., et al. (2021), Trace Element Biogeochemistry in the High-Latitude North Atlantic Ocean: Seasonal Variations and Volcanic Inputs, *Glob. Biogeochem. Cycle*, 35(3), e2020GB006674, doi: <https://doi.org/10.1029/2020GB006674>.
- Aguedjou, H. M. A., A. Chaigneau, I. Dadou, Y. Morel, C. Pegliasco, C. Y. Da-Allada, and E. Baloitcha (2021), What Can We Learn From Observed Temperature and Salinity Isopycnal Anomalies at Eddy Generation Sites? Application in the Tropical Atlantic Ocean, *Journal of Geophysical Research: Oceans*, 126(11), e2021JC017630, doi: <https://doi.org/10.1029/2021JC017630>.
- Allan, E. A., M. H. DiBenedetto, A. C. Lavery, A. F. Govindarajan, and W. G. Zhang (2021), Modeling characterization of the vertical and temporal variability of environmental DNA in the mesopelagic ocean, *Scientific Reports*, 11(1), 21273, doi: <https://doi.org/10.1038/s41598-021-00288-5>.
- Alraddadi, T. M., M. A. Alsaafani, A. M. Albarakati, and C. P. Abdulla (2021), Seasonal variability of mixed layer depth from Argo floats in the central Red Sea, *Arabian Journal of Geosciences*, 14(6), 496, doi: <https://doi.org/10.1007/s12517-021-06862-5>.
- Anandh, T. S., B. K. Das, J. Kuttippurath, and A. Chakraborty (2021), A Comparative Analysis of the Bay of Bengal Ocean State Using Standalone and Coupled Numerical Models, *Asia-Pacific Journal of Atmospheric Sciences*, 57(2), 347-359, doi: <https://doi.org/10.1007/s13143-020-00197-z>.
- Ando, K., et al. (2021), Half-Century of Scientific Advancements Since the Cooperative Study of the Kuroshio and Adjacent Regions (CSK) Programme - Need for a new Kuroshio Research, *Prog. Oceanogr.*, 193, 102513, doi: <https://doi.org/10.1016/j.pcean.2021.102513>.

- Androulidakis, Y., V. Kourafalou, M. J. Olascoaga, F. J. Beron-Vera, M. Le Hénaff, H. Kang, and N. Ntaganou (2021), Impact of Caribbean Anticyclones on Loop Current variability, *Ocean Dyn.*, 71(9), 935-956, doi: <https://doi.org/10.1007/s10236-021-01474-9>.
- Artana, C., C. Provost, L. Poli, R. Ferrari, and J.-M. Lellouche (2021), Revisiting the Malvinas Current Upper Circulation and Water Masses Using a High-Resolution Ocean Reanalysis, *Journal of Geophysical Research: Oceans*, 126(6), e2021JC017271, doi: <https://doi.org/10.1029/2021JC017271>.
- Ashkezari, M. D., N. R. Hagen, M. Denholtz, A. Neang, T. C. Burns, R. L. Morales, C. P. Lee, C. N. Hill, and E. V. Armbrust (2021), Simons Collaborative Marine Atlas Project (Simons CMAP): An open-source portal to share, visualize, and analyze ocean data, *Limnology and Oceanography: Methods*, 19(7), 488-496, doi: <https://doi.org/10.1002/lom3.10439>.
- Aubone, N., E. D. Palma, and A. R. Piola (2021), The surface salinity maximum of the South Atlantic, *Prog. Oceanogr.*, 191, 102499, doi: <https://doi.org/10.1016/j.pocean.2020.102499>.
- Auger, P. A., J. P. Bento, S. Hormazabal, C. E. Morales, and A. Bustamante (2021), Mesoscale Variability in the Boundaries of the Oxygen Minimum Zone in the Eastern South Pacific: Influence of Intrathermocline Eddies, *Journal of Geophysical Research: Oceans*, 126(2), e2019JC015272, doi: <https://doi.org/10.1029/2019JC015272>.
- Ayouche, A., C. De Marez, M. Morvan, P. L'Hegaret, X. Carton, B. Le Vu, and A. Stegner (2021), Structure and Dynamics of the Ras al Hadd Oceanic Dipole in the Arabian Sea, *Oceans*, 2(1), doi: <https://doi.org/10.3390/oceans2010007>.
- Azevedo, L., L. Matias, F. Turco, R. Tromm, and Á. Peliz (2021), Geostatistical Seismic Inversion for Temperature and Salinity in the Madeira Abyssal Plain, *Frontiers in Marine Science*, 8(1096), doi: <https://doi.org/10.3389/fmars.2021.685007>.
- Azminuddin, F., D. Jeon, Y. H. Kim, C. J. Jang, and J. H. Park (2021), A Newly Observed Deep Countercurrent in the Subtropical Northwest Pacific, *Journal of Geophysical Research: Oceans*, 126(7), e2021JC017272, doi: <https://doi.org/10.1029/2021JC017272>.
- Baaklini, G., L. Issa, M. Fakhri, J. Brajard, G. Fifani, M. Menna, I. Taupier-Letage, A. Bosse, and L. Mortier (2021), Blending drifters and altimetric data to estimate surface currents: Application in the Levantine Mediterranean and objective validation with different data types, *Ocean Model.*, 166, 101850, doi: <https://doi.org/10.1016/j.ocemod.2021.101850>.
- Baatz, R., et al. (2021), Reanalysis in Earth System Science: Toward Terrestrial Ecosystem Reanalysis, *Reviews of Geophysics*, 59(3), e2020RG000715, doi: <https://doi.org/10.1029/2020RG000715>.
- Bach, L. T., V. Tamsitt, J. Gower, C. L. Hurd, J. A. Raven, and P. W. Boyd (2021), Testing the climate intervention potential of ocean afforestation using the Great Atlantic Sargassum Belt, *Nature Communications*, 12(1), 2556, doi: <https://doi.org/10.1038/s41467-021-22837-2>.
- Bagatinsky, V. A., and N. A. Diansky (2021), Variability of the North Atlantic Thermohaline Circulation in Different Phases of the Atlantic Multidecadal Oscillation from Ocean Objective Analyses and Reanalyses, *Izv. Atmos. Ocean. Phys.*, 57(2), 208-219, doi: <https://doi.org/10.1134/S000143382102002X>.

- Bagnell, A., and T. DeVries (2021), 20th century cooling of the deep ocean contributed to delayed acceleration of Earth's energy imbalance, *Nature Communications*, 12(1), 4604, doi: <https://doi.org/10.1038/s41467-021-24472-3>.
- Balaguru, K., L. R. Leung, S. M. Hagos, and S. Krishnakumar (2021), An oceanic pathway for Madden–Julian Oscillation influence on Maritime Continent Tropical Cyclones, *npj Climate and Atmospheric Science*, 4(1), 52, doi: <https://doi.org/10.1038/s41612-021-00208-4>.
- Balaguru, K., L. P. Van Roekel, L. R. Leung, and M. Veneziani (2021), Subtropical Eastern North Pacific SST Bias in Earth System Models, *Journal of Geophysical Research: Oceans*, 126(8), e2021JC017359, doi: <https://doi.org/10.1029/2021JC017359>.
- Banik, T., V. Thandlam, B. K. De, S. S. Kundu, R. B. Gogoi, P. L. N. Raju, and A. Guha (2021), Understanding dynamics of tropical cyclones in the Bay of Bengal using lightning data, *Meteorology and Atmospheric Physics*, 133(5), 1505-1522, doi: <https://doi.org/10.1007/s00703-021-00824-y>.
- Bao, S., H. Wang, R. Zhang, H. Yan, J. Chen, and C. Bai (2021), Application of Phenomena-Resolving Assessment Methods to Satellite Sea Surface Salinity Products, *Earth and Space Science*, 8(8), e2020EA001410, doi: <https://doi.org/10.1029/2020EA001410>.
- Barkan, R., K. Srinivasan, L. Yang, J. C. McWilliams, J. Gula, and C. Vic (2021), Oceanic Mesoscale Eddy Depletion Catalyzed by Internal Waves, *Geophys. Res. Lett.*, 48(18), e2021GL094376, doi: <https://doi.org/10.1029/2021GL094376>.
- Barnoud, A., et al. (2021), Contributions of Altimetry and Argo to Non-Closure of the Global Mean Sea Level Budget Since 2016, *Geophys. Res. Lett.*, 48(14), e2021GL092824, doi: <https://doi.org/10.1029/2021GL092824>.
- Barral, Q.-B., B. Zakardjian, F. Dumas, P. Garreau, P. Testor, and J. Beuvier (2021), Characterization of fronts in the Western Mediterranean with a special focus on the North Balearic Front, *Prog. Oceanogr.*, 102636, doi: <https://doi.org/10.1016/j.pocean.2021.102636>.
- Barton, N., et al. (2021), The Navy's Earth System Prediction Capability: A New Global Coupled Atmosphere-Ocean-Sea Ice Prediction System Designed for Daily to Subseasonal Forecasting, *Earth and Space Science*, 8(4), e2020EA001199, doi: <https://doi.org/10.1029/2020EA001199>.
- Bashmachnikov, I. L., A. M. Fedorov, P. A. Golubkin, A. V. Vesman, V. V. Selyuzhenok, N. V. Gnatiuk, L. P. Bobylev, K. I. Hodges, and D. S. Dukhovskoy (2021), Mechanisms of interannual variability of deep convection in the Greenland sea, *Deep Sea Research Part I: Oceanographic Research Papers*, 174, 103557, doi: <https://doi.org/10.1016/j.dsr.2021.103557>.
- Bebieva, Y., and K. Speer (2021), Thermohaline Suppression of Upper Circumpolar Deep Water Eddies in the Ross Gyre, *Geophys. Res. Lett.*, 48(18), e2021GL094476, doi: <https://doi.org/10.1029/2021GL094476>.
- Becker, M., A. Olsen, and G. Reverdin (2021), In-air one-point calibration of oxygen optodes in underway systems, *Limnology and Oceanography: Methods*, 19(5), 293-302, doi: <https://doi.org/10.1002/lom3.10423>.
- Behrens, E., A. M. Hogg, M. H. England, and H. Bostock (2021), Seasonal and Interannual

- Variability of the Subtropical Front in the New Zealand Region, *Journal of Geophysical Research: Oceans*, 126(2), e2020JC016412, doi: <https://doi.org/10.1029/2020JC016412>.
- Belonenko, T. V., V. A. Zinchenko, A. M. Fedorov, M. V. Budyansky, S. V. Prants, and M. Y. Uleysky (2021), Interaction of the Lofoten Vortex with a Satellite Cyclone, *Pure and Applied Geophysics*, 178(1), 287-300, doi: <https://doi.org/10.1007/s00024-020-02647-1>.
- Benedetti, F., M. Vogt, U. H. Elizondo, D. Righetti, N. E. Zimmermann, and N. Gruber (2021), Major restructuring of marine plankton assemblages under global warming, *Nature Communications*, 12(1), 5226, doi: <https://doi.org/10.1038/s41467-021-25385-x>.
- Billheimer, S. J., L. D. Talley, and T. R. Martz (2021), Oxygen Seasonality, Utilization Rate, and Impacts of Vertical Mixing in the Eighteen Degree Water Region of the Sargasso Sea as Observed by Profiling Biogeochemical Floats, *Glob. Biogeochem. Cycle*, 35(3), e2020GB006824, doi: <https://doi.org/10.1029/2020GB006824>.
- Biló, T. C., W. E. Johns, and J. Zhao (2021), Dynamics of Deep Recirculation Cells Offshore of the Deep Western Boundary Current in the Subtropical North Atlantic (15°–30°N), *J. Phys. Oceanogr.*, 51(1), 131-145, doi: <https://doi.org/10.1175/JPO-D-20-0184.1>.
- Bingham, F. M., S. Brodnitz, and L. Yu (2021), Sea Surface Salinity Seasonal Variability in the Tropics from Satellites, Gridded In Situ Products and Mooring Observations, *Remote Sensing*, 13(1), doi: <https://doi.org/10.3390/rs13010110>.
- Bingham, F. M., S. Fournier, S. Brodnitz, K. Ulfsax, and H. Zhang (2021), Matchup Characteristics of Sea Surface Salinity Using a High-Resolution Ocean Model, *Remote Sensing*, 13(15), doi: <https://doi.org/10.3390/rs13152995>.
- Bisson, K. M., E. Boss, P. J. Werdell, A. Ibrahim, and M. J. Behrenfeld (2021), Particulate Backscattering in the Global Ocean: A Comparison of Independent Assessments, *Geophys. Res. Lett.*, 48(2), e2020GL090909, doi: <https://doi.org/10.1029/2020GL090909>.
- Bisson, K. M., E. Boss, P. J. Werdell, A. Ibrahim, R. Frouin, and M. J. Behrenfeld (2021), Seasonal bias in global ocean color observations, *Applied Optics*, 60(23), 6978-6988, doi: <https://doi.org/10.1364/AO.426137>.
- Bisson, K. M., and B. B. Cael (2021), How Are Under Ice Phytoplankton Related to Sea Ice in the Southern Ocean?, *Geophys. Res. Lett.*, 48(21), e2021GL095051, doi: <https://doi.org/10.1029/2021GL095051>.
- Boland, E. J. D., D. C. Jones, A. J. S. Meijers, G. Forget, and S. A. Josey (2021), Local and Remote Influences on the Heat Content of Southern Ocean Mode Water Formation Regions, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016585, doi: <https://doi.org/10.1029/2020JC016585>.
- Boutin, J., et al. (2021), Satellite-Based Sea Surface Salinity Designed for Ocean and Climate Studies, *Journal of Geophysical Research: Oceans*, 126(11), e2021JC017676, doi: <https://doi.org/10.1029/2021JC017676>.
- Boutin, J., J. L. Vergely, E. P. Dinnat, P. Waldteufel, F. D'Amico, N. Reul, A. Supply, and C. Thouvenin-Masson (2021), Correcting Sea Surface Temperature Spurious Effects in Salinity Retrieved From Spaceborne L-Band Radiometer Measurements, *IEEE Trans. Geosci. Remote Sensing*, 59(9), 7256-7269, doi: <https://doi.org/10.1109/TGRS.2021.3088888>.

- <https://doi.org/10.1109/TGRS.2020.3030488>.
- Bouzaiene, M., M. Menna, D. Elhmaidi, A. F. Dilmahamod, and P.-M. Poulain (2021), Spreading of Lagrangian Particles in the Black Sea: A Comparison between Drifters and a High-Resolution Ocean Model, *Remote Sensing*, 13(13), doi: <https://doi.org/10.3390/rs13132603>.
- Brown, P. J., et al. (2021), Circulation-driven variability of Atlantic anthropogenic carbon transports and uptake, *Nat. Geosci.*, 14(8), 571-577, doi: <https://doi.org/10.1038/s41561-021-00774-5>.
- Browning, T. J., A. A. Al-Hashem, M. J. Hopwood, A. Engel, I. M. Belkin, E. D. Wakefield, T. Fischer, and E. P. Achterberg (2021), Iron Regulation of North Atlantic Eddy Phytoplankton Productivity, *Geophys. Res. Lett.*, 48(6), e2020GL091403, doi: <https://doi.org/10.1029/2020GL091403>.
- Bushuk, M., M. Winton, F. A. Haumann, T. Delworth, F. Lu, Y. Zhang, L. Jia, L. Zhang, W. Cooke, and M. Harrison (2021), Seasonal prediction and predictability of regional Antarctic sea ice, *J. Clim.*, 1-68, doi: <https://doi.org/10.1175/JCLI-D-20-0965.1>.
- Camus, L., et al. (2021), Autonomous Surface and Underwater Vehicles as Effective Ecosystem Monitoring and Research Platforms in the Arctic—The Glider Project, *Sensors*, 21(20), doi: <https://doi.org/10.3390/s21206752>.
- Carret, A., W. Llovel, T. Penduff, and J.-M. Molines (2021), Atmospherically Forced and Chaotic Interannual Variability of Regional Sea Level and Its Components Over 1993–2015, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC017123, doi: <https://doi.org/10.1029/2020JC017123>.
- Carter, B. R., H. C. Bittig, A. J. Fassbender, J. D. Sharp, Y. Takeshita, Y.-Y. Xu, M. Álvarez, R. Wanninkhof, R. A. Feely, and L. Barbero (2021), New and updated global empirical seawater property estimation routines, *Limnology and Oceanography: Methods*, 19(12), 785-809, doi: <https://doi.org/10.1002/lom3.10461>.
- Castelão, G. P. (2021), A machine learning approach to quality control oceanographic data, *Computers & Geosciences*, 155, 104803, doi: <https://doi.org/10.1016/j.cageo.2021.104803>.
- Causio, S., S. A. Ciliberti, E. Clementi, G. Coppini, and P. Lionello (2021), A Modelling Approach for the Assessment of Wave-Currents Interaction in the Black Sea, *Journal of Marine Science and Engineering*, 9(8), doi: <https://doi.org/10.3390/jmse9080893>.
- Ceroveki, I., and A. J. S. Meijers (2021), Strong Quasi-Stationary Wintertime Atmospheric Surface Pressure Anomalies Drive a Dipole Pattern in the Subantarctic Mode Water Formation, *J. Clim.*, 34(17), 6989-7004, doi: <https://doi.org/10.1175/JCLI-D-20-0593.1>.
- Chai, F., Y. Wang, X. Xing, Y. Yan, H. Xue, M. Wells, and E. Boss (2021), A limited effect of sub-tropical typhoons on phytoplankton dynamics, *Biogeosciences*, 18(3), 849-859, doi: <https://doi.org/10.5194/bg-18-849-2021>.
- Chamberlain, M. A., P. R. Oke, G. B. Brassington, P. Sandery, P. Divakaran, and R. A. S. Fiedler (2021), Multiscale data assimilation in the Bluelink ocean reanalysis (BRAN), *Ocean Model.*, 166, 101849, doi: <https://doi.org/10.1016/j.ocemod.2021.101849>.
- Chamberlain, M. A., P. R. Oke, R. A. S. Fiedler, H. M. Beggs, G. B. Brassington, and P. Divakaran (2021), Next generation of Bluelink ocean reanalysis with multiscale data

- assimilation: BRAN2020, *Earth Syst. Sci. Data*, 13(12), 5663-5688, doi: <https://doi.org/10.5194/essd-13-5663-2021>.
- Chandra, A., and S. Kumar (2021), Sea surface temperature and ocean heat content during tropical cyclones Pam (2015) and Winston (2016) in the Southwest Pacific region, *Mon. Weather Rev.*, 149(4), 1173-1187, doi: <https://doi.org/10.1175/MWR-D-20-0025.1>.
- Chauhan, A., R. P. Singh, P. Dash, and R. Kumar (2021), Impact of tropical cyclone "Fani" on land, ocean, atmospheric and meteorological parameters, *Marine Pollution Bulletin*, 162, 111844, doi: <https://doi.org/10.1016/j.marpolbul.2020.111844>.
- Chen, G., X. Chen, and B. Huang (2021), Independent Eddy Identification With Profiling Argo as Calibrated by Altimetry, *Journal of Geophysical Research: Oceans*, 126(1), e2020JC016729, doi: <https://doi.org/10.1029/2020JC016729>.
- Chen, S., M. L. Wells, R. X. Huang, H. Xue, J. Xi, and F. Chai (2021), Episodic subduction patches in the western North Pacific identified from BGC-Argo float data, *Biogeosciences*, 18(19), 5539-5554, doi: <https://doi.org/10.5194/bg-18-5539-2021>.
- Chen, X., G. Chen, L. Ge, B. Huang, and C. Cao (2021), Global Oceanic Eddy Identification: A Deep Learning Method From Argo Profiles and Altimetry Data, *Frontiers in Marine Science*, 8(412), doi: <https://doi.org/10.3389/fmars.2021.646926>.
- Chen, X., H. Li, C. Cao, and G. Chen (2021), Eddy-induced pycnocline depth displacement over the global ocean, *J. Mar. Syst.*, 221, 103577, doi: <https://www.sciencedirect.com/science/article/pii/S0924796321000750>.
- Cheng, L., et al. (2021), Upper Ocean Temperatures Hit Record High in 2020, *Adv. Atmos. Sci.*, 38(4), 523-530, doi: <https://doi.org/10.1007/s00376-021-0447-x>.
- Chi, J., T. Qu, Y. Du, J. Qi, and P. Shi (2021), Ocean salinity indices of interannual modes in the tropical Pacific, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-021-05911-9>.
- Chi, N.-H., R.-C. Lien, and E. A. D'Asaro (2021), The Mixed Layer Salinity Budget in the Central Equatorial Indian Ocean, *Journal of Geophysical Research: Oceans*, 126(6), e2021JC017280, doi: <https://doi.org/10.1029/2021JC017280>.
- Choo, S.-H., P.-H. Chang, S.-O. Hwang, H. J. Jo, J. Lee, S.-M. Lee, Y.-K. Hyun, and J.-H. Moon (2021), Assessment of Assimilation Impact of Argo Float Observations in Marginal Seas around Korean Peninsula through Observing System Experiments, *Korean Meteorological Society*, 31(3), 283-294, doi: <https://doi.org/10.14191/Atmos.2021.31.3.283>.
- Chow, C. H., Y.-Y. Shih, Y.-T. Chien, J. Y. Chen, N. Fan, W.-C. Wu, and C.-C. Hung (2021), The Wind Effect on Biogeochemistry in Eddy Cores in the Northern South China Sea, *Frontiers in Marine Science*, 8(1091), doi: <https://doi.org/10.3389/fmars.2021.717576>.
- Chowdhury, K. M. A., W. Jiang, G. Liu, M. K. Ahmed, and S. Akhter (2021), Dominant physical-biogeochemical drivers for the seasonal variations in the surface chlorophyll-a and subsurface chlorophyll-a maximum in the Bay of Bengal, *Regional Studies in Marine Science*, 48, 102022, doi: <https://doi.org/10.1016/j.rsma.2021.102022>.
- Ciappa, A. C. (2021), Reverse trajectory study of oil spill risk in Cyclades Islands of the Aegean Sea, *Regional Studies in Marine Science*, 41, 101580, doi:

- <https://doi.org/10.1016/j.rsma.2020.101580>.
- Ciliberti, S. A., et al. (2021), Monitoring and Forecasting the Ocean State and Biogeochemical Processes in the Black Sea: Recent Developments in the Copernicus Marine Service, *Journal of Marine Science and Engineering*, 9(10), doi: <https://doi.org/10.3390/jmse9101146>.
- Cimino, M. A., M. G. Jacox, S. J. Bograd, S. Brodie, G. Carroll, E. L. Hazen, B. E. Lavaniegos, M. M. Morales, E. Satterthwaite, and R. R. Rykaczewski (2021), Anomalous poleward advection facilitates episodic range expansions of pelagic red crabs in the eastern North Pacific, *Limnol. Oceanogr.*, 66(8), 3176-3189, doi: <https://doi.org/10.1002/lno.11870>.
- Claustre, H., L. Legendre, P. W. Boyd, and M. Levy (2021), The Oceans' Biological Carbon Pumps: Framework for a Research Observational Community Approach, *Frontiers in Marine Science*, 8, doi: <https://doi.org/10.3389/fmars.2021.780052>.
- Clavel-Henry, M., E. W. North, J. Solé, N. Bahamon, M. Carretón, and J. B. Company (2021), Estimating the spawning locations of the deep-sea red and blue shrimp *Aristeus antennatus* (Crustacea: Decapoda) in the northwestern Mediterranean Sea with a backtracking larval transport model, *Deep Sea Research Part I: Oceanographic Research Papers*, 174, 103558, doi: <https://www.sciencedirect.com/science/article/pii/S0967063721000972>.
- Clavel-Henry, M., J. Solé, N. Bahamon, M. Carretón, and J. B. Company (2021), Larval transport of *Aristeus antennatus* shrimp (Crustacea: Decapoda: Dendrobranchiata: Aristeidae) near the Palamós submarine canyon (NW Mediterranean Sea) linked to the North Balearic Front, *Prog. Oceanogr.*, 192, 102515, doi: <https://doi.org/10.1016/j.pocean.2021.102515>.
- Clayton, S., H. I. Palevsky, L. Thompson, and P. D. Quay (2021), Synoptic Mesoscale to Basin Scale Variability in Biological Productivity and Chlorophyll in the Kuroshio Extension Region, *Journal of Geophysical Research: Oceans*, 126(11), e2021JC017782, doi: <https://doi.org/10.1029/2021JC017782>.
- Cliff, E., S. Khatiwala, and A. Schmittner (2021), Glacial deep ocean deoxygenation driven by biologically mediated air–sea disequilibrium, *Nat. Geosci.*, 14(1), 43-50, doi: <https://doi.org/10.1038/s41561-020-00667-z>.
- Cordeiro, N. G. F., R. Nolasco, E. D. Barton, and J. Dubert (2021), Fixed-point time series, repeat survey and high-resolution modeling reveal event scale responses of the Northwestern Iberian upwelling, *Prog. Oceanogr.*, 190, 102480, doi: <https://doi.org/10.1016/j.pocean.2020.102480>.
- Cornec, M., H. Claustre, A. Mignot, L. Guidi, L. Lacour, A. Poteau, F. D'Ortenzio, B. Gentili, and C. Schmechtig (2021), Deep Chlorophyll Maxima in the Global Ocean: Occurrences, Drivers and Characteristics, *Glob. Biogeochem. Cycle*, 35(4), e2020GB006759, doi: <https://doi.org/10.1029/2020GB006759>.
- Cornec, M., R. Laxenaire, S. Speich, and H. Claustre (2021), Impact of Mesoscale Eddies on Deep Chlorophyll Maxima, *Geophys. Res. Lett.*, 48(15), e2021GL093470, doi: <https://doi.org/10.1029/2021GL093470>.
- Cossarini, G., et al. (2021), High-Resolution Reanalysis of the Mediterranean Sea Biogeochemistry (1999–2019), *Frontiers in Marine Science*, 8(1537), doi:

- <https://doi.org/10.3389/fmars.2021.741486>.
- Cui, W., C. Zhou, J. Zhang, and J. Yang (2021), Statistical characteristics and thermohaline properties of mesoscale eddies in the Bay of Bengal, *Acta Oceanol. Sin.*, *40*(4), 10-22, doi: <https://doi.org/10.1007/s13131-021-1723-4>.
- Dai, J., H. Wang, W. Zhang, P. Wang, and T. Luo (2021), Three-dimensional structure of an observed cyclonic mesoscale eddy in the Northwest Pacific and its assimilation experiment, *Acta Oceanol. Sin.*, *40*(5), 1-19, doi: <https://doi.org/10.1007/s13131-021-1810-6>.
- Dandapat, S., A. Chakraborty, J. Kuttippurath, C. Bhagawati, and R. Sen (2021), A numerical study on the role of atmospheric forcing on mixed layer depth variability in the Bay of Bengal using a regional ocean model, *Ocean Dyn.*, *71*(10), 963-979, doi: <https://doi.org/10.1007/s10236-021-01475-8>.
- de Freitas, P. P., A. d. M. Paiva, M. Cirano, G. N. Mill, V. S. da Costa, M. Gabioux, and B. R. L. França (2021), Coastal trapped waves propagation along the Southwestern Atlantic Continental Shelf, *Cont. Shelf Res.*, *226*, 104496, doi: <https://doi.org/10.1016/j.csr.2021.104496>.
- de Paula, T. P., J. A. M. Lima, C. A. S. Tanajura, M. Andrioni, R. P. Martins, and W. Z. Arruda (2021), The impact of ocean data assimilation on the simulation of mesoscale eddies at São Paulo plateau (Brazil) using the regional ocean modeling system, *Ocean Model.*, *167*, 101889, doi: <https://doi.org/10.1016/j.ocemod.2021.101889>.
- Delpech, A., C. Ménesguen, Y. Morel, L. N. Thomas, F. Marin, S. Cravatte, and S. Le Gentil (2021), Intra-Annual Rossby Waves Destabilization as a Potential Driver of Low-Latitude Zonal Jets: Barotropic Dynamics, *J. Phys. Oceanogr.*, *51*(2), 365-384, doi: <https://doi.org/10.1175/JPO-D-20-0180.1>.
- Demyshev, S. G., O. A. Dymova, N. V. Markova, E. A. Korshenko, M. V. Senderov, N. A. Turko, and K. V. Ushakov (2021), Undercurrents in the Northeastern Black Sea Detected on the Basis of Multi-Model Experiments and Observations, *Journal of Marine Science and Engineering*, *9*(9), doi: <https://doi.org/10.3390/jmse9090933>.
- Denvil-Sommer, A., M. Gehlen, and M. Vrac (2021), Observation system simulation experiments in the Atlantic Ocean for enhanced surface ocean pCO₂ reconstructions, *Ocean Sci.*, *17*(4), 1011-1030, doi: <https://os.copernicus.org/articles/17/1011/2021/>.
- Desbruyères, D., L. Chafik, and G. Maze (2021), A shift in the ocean circulation has warmed the subpolar North Atlantic Ocean since 2016, *Communications Earth & Environment*, *2*(1), 48, doi: <https://doi.org/10.1038/s43247-021-00120-y>.
- Devana, M. S., W. E. Johns, A. Houk, and S. Zou (2021), Rapid Freshening of Iceland Scotland Overflow Water Driven by Entrainment of a Major Upper Ocean Salinity Anomaly, *Geophys. Res. Lett.*, *48*(22), e2021GL094396, doi: <https://doi.org/10.1029/2021GL094396>.
- Dever, M., D. Nicholson, M. M. Omand, and A. Mahadevan (2021), Size-Differentiated Export Flux in Different Dynamical Regimes in the Ocean, *Glob. Biogeochem. Cycle*, *35*(3), e2020GB006764, doi: <https://doi.org/10.1029/2020GB006764>.
- Di Luca, A., D. Argüeso, S. Sherwood, and J. P. Evans (2021), Evaluating Precipitation Errors Using the Environmentally Conditioned Intensity-Frequency Decomposition Method,

- Journal of Advances in Modeling Earth Systems*, 13(7), e2020MS002447, doi: <https://doi.org/10.1029/2020MS002447>.
- Diaz, B. P., et al. (2021), Seasonal mixed layer depth shapes phytoplankton physiology, viral production, and accumulation in the North Atlantic, *Nature Communications*, 12(1), 6634, doi: <https://doi.org/10.1038/s41467-021-26836-1>.
- Ding, R., J. Xuan, T. Zhang, L. Zhou, F. Zhou, Q. Meng, and I.-S. Kang (2021), Eddy-Induced Heat Transport in the South China Sea, *J. Phys. Oceanogr.*, 51(7), 2329-2349, doi: <https://doi.org/10.1175/JPO-D-20-0206.1>.
- Ding, W., C. Zhang, J. Hu, and S. Shang (2021), Unusual Fish Assemblages Associated with Environmental Changes in the East China Sea in February and March 2017, *Remote Sensing*, 13(9), doi: <https://doi.org/10.3390/rs13091768>.
- Ding, Y., L. Xu, and Y. Zhang (2021), Impact of Anticyclonic Eddies Under Stormy Weather on the Mixed Layer Variability in April South of the Kuroshio Extension, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016739, doi: <https://doi.org/10.1029/2020JC016739>.
- Doddridge, E. W., J. Marshall, H. Song, J.-M. Campin, and M. Kelley (2021), Southern Ocean Heat Storage, Reemergence, and Winter Sea Ice Decline Induced by Summertime Winds, *J. Clim.*, 34(4), 1403-1415, doi: <https://doi.org/10.1175/JCLI-D-20-0322.1>.
- Domingues, R., M. Le Hénaff, G. Halliwell, J. A. Zhang, F. Bringas, P. Chardon, H.-S. Kim, J. Morell, and G. Goni (2021), Ocean Conditions and the Intensification of Three Major Atlantic Hurricanes in 2017, *Mon. Weather Rev.*, 149(5), 1265-1286, doi: <https://doi.org/10.1175/MWR-D-20-0100.1>.
- Dong, B., K. Haines, and M. Martin (2021), Improved High Resolution Ocean Reanalyses Using a Simple Smoother Algorithm, *Journal of Advances in Modeling Earth Systems*, 13(12), e2021MS002626, doi: <https://doi.org/10.1029/2021MS002626>.
- D'Ortenzio, F., et al. (2021), BGC-Argo Floats Observe Nitrate Injection and Spring Phytoplankton Increase in the Surface Layer of Levantine Sea (Eastern Mediterranean), *Geophys. Res. Lett.*, 48(8), e2020GL091649, doi: <https://doi.org/10.1029/2020GL091649>.
- Dotto, T. S., M. M. Mata, R. Kerr, and C. A. E. Garcia (2021), A novel hydrographic gridded data set for the northern Antarctic Peninsula, *Earth Syst. Sci. Data*, 13(2), 671-696, doi: <https://doi.org/10.5194/essd-13-671-2021>.
- Dove, L. A., A. F. Thompson, D. Balwada, and A. R. Gray (2021), Observational Evidence of Ventilation Hotspots in the Southern Ocean, *Journal of Geophysical Research: Oceans*, 126(7), e2021JC017178, doi: <https://doi.org/10.1029/2021JC017178>.
- Drouin, K. L., M. S. Lozier, and W. E. Johns (2021), Variability and Trends of the South Atlantic Subtropical Gyre, *Journal of Geophysical Research: Oceans*, 126(1), e2020JC016405, doi: <https://doi.org/10.1029/2020JC016405>.
- Du, C., R. He, Z. Liu, T. Huang, L. Wang, Z. Yuan, Y. Xu, Z. Wang, and M. Dai (2021), Climatology of nutrient distributions in the South China Sea based on a large data set derived from a new algorithm, *Prog. Oceanogr.*, 195, 102586, doi: <https://doi.org/10.1016/j.pocean.2021.102586>.
- Du, M., F. Zheng, J. Zhu, R. Lin, and K. Yi (2021), Comparative Analysis of Two Approaches for Correcting the Systematic Ocean Temperature Bias of CAS-ESM-C, *Journal of*

- Marine Science and Engineering*, 9(9), doi: <https://doi.org/10.3390/jmse9090925>.
- Duan, W., X. Cheng, X. Zhu, and T. Ma (2021), Variability in upper-ocean salinity stratification in the tropical Pacific Ocean, *Acta Oceanol. Sin.*, 40(1), 113-125, doi: <https://doi.org/10.1007/s13131-020-1597-x>.
- Eden, C., D. Olbers, and T. Eriksen (2021), A Closure for Lee Wave Drag on the Large-Scale Ocean Circulation, *J. Phys. Oceanogr.*, 51(12), 3573-3588, doi: <https://doi.org/10.1175/JPO-D-20-0230.1>.
- El Hourany, R., C. Mejia, G. Faour, M. Crépon, and S. Thiria (2021), Evidencing the Impact of Climate Change on the Phytoplankton Community of the Mediterranean Sea Through a Bioregionalization Approach, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016808, doi: <https://doi.org/10.1029/2020JC016808>.
- El-Geziry, T. M. (2021), Long-term changes in sea surface temperature (SST) within the southern Levantine Basin, *Acta Oceanol. Sin.*, 40(3), 27-33, doi: <https://doi.org/10.1007/s13131-021-1709-2>.
- Elzahaby, Y., A. Schaeffer, M. Roughan, and S. Delaux (2021), Oceanic Circulation Drives the Deepest and Longest Marine Heatwaves in the East Australian Current System, *Geophys. Res. Lett.*, 48(17), e2021GL094785, doi: <https://doi.org/10.1029/2021GL094785>.
- Escudier, R., et al. (2021), A High Resolution Reanalysis for the Mediterranean Sea, *Frontiers in Earth Science*, 9(1060), doi: <https://doi.org/10.3389/feart.2021.702285>.
- Estournel, C., P. Marsaleix, and C. Ulises (2021), A new assessment of the circulation of Atlantic and Intermediate Waters in the Eastern Mediterranean, *Prog. Oceanogr.*, 198, 102673, doi: <https://doi.org/10.1016/j.pocean.2021.102673>.
- Fach, B. A., H. Orek, E. Yilmaz, D. Tezcan, I. Salihoglu, B. Salihoglu, and M. A. Latif (2021), Water Mass Variability and Levantine Intermediate Water Formation in the Eastern Mediterranean Between 2015 and 2017, *Journal of Geophysical Research: Oceans*, 126(2), e2020JC016472, doi: <https://doi.org/10.1029/2020JC016472>.
- Fedorov, A. M., M. V. Budyansky, T. V. Belonenko, S. V. Prants, M. Y. Uleysky, and I. L. Bashmachnikov (2021), Lagrangian modeling of water circulation in the Lofoten Basin, *Dynamics of Atmospheres and Oceans*, 96, 101258, doi: <https://doi.org/10.1016/j.dynatmoce.2021.101258>.
- Fedorov, A. M., R. P. Raj, T. V. Belonenko, E. V. Novoselova, I. L. Bashmachnikov, J. A. Johannessen, and L. H. Pettersson (2021), Extreme Convective Events in the Lofoten Basin, *Pure and Applied Geophysics*, doi: <https://doi.org/10.1007/s00024-021-02749-4>.
- Feng, M., Y. Zhang, H. H. Hendon, M. J. McPhaden, and A. G. Marshall (2021), Niño 4 West (Niño-4W) Sea Surface Temperature Variability, *Journal of Geophysical Research: Oceans*, 126(9), e2021JC017591, doi: <https://doi.org/10.1029/2021JC017591>.
- Foppert, A., S. R. Rintoul, S. G. Purkey, N. Zilberman, T. Kobayashi, J.-B. Sallée, E. M. van Wijk, and L. O. Wallace (2021), Deep Argo Reveals Bottom Water Properties and Pathways in the Australian-Antarctic Basin, *Journal of Geophysical Research: Oceans*, 126(12), e2021JC017935, doi: <https://doi.org/10.1029/2021JC017935>.
- Ford, D. (2021), Assimilating synthetic Biogeochemical-Argo and ocean colour observations into a global ocean model to inform observing system design, *Biogeosciences*, 18(2),

- 509-534, doi: <https://doi.org/10.5194/bg-18-509-2021>.
- Foster, D., D. J. Gagne li, and D. B. Whitt (2021), Probabilistic Machine Learning Estimation of Ocean Mixed Layer Depth From Dense Satellite and Sparse In Situ Observations, *Journal of Advances in Modeling Earth Systems*, 13(12), e2021MS002474, doi: <https://doi.org/10.1029/2021MS002474>.
- Fournier, S., and T. Lee (2021), Seasonal and Interannual Variability of Sea Surface Salinity Near Major River Mouths of the World Ocean Inferred from Gridded Satellite and In-Situ Salinity Products, *Remote Sensing*, 13(4), doi: <https://doi.org/10.3390/rs13040728>.
- Franco, A. C., et al. (2021), Anthropogenic and Climatic Contributions to Observed Carbon System Trends in the Northeast Pacific, *Glob. Biogeochem. Cycle*, 35(7), e2020GB006829, doi: <https://doi.org/10.1029/2020GB006829>.
- Frankignoul, C., E. Kestenare, and G. Reverdin (2021), Sea Surface Salinity Reemergence in an Updated North Atlantic In Situ Salinity Dataset, *J. Clim.*, 34(22), 9007-9023, doi: <https://doi.org/10.1175/JCLI-D-20-0840.1>.
- Frazão, H. C., and J. J. Waniek (2021), Mediterranean Water Properties at the Eastern Limit of the North Atlantic Subtropical Gyre since 1981, *Oceans*, 2(1), doi: <https://doi.org/10.3390/oceans2010016>.
- Frederikse, T., et al. (2021), Constraining 20th-Century Sea-Level Rise in the South Atlantic Ocean, *Journal of Geophysical Research: Oceans*, 126(3), e2020JC016970, doi: <https://doi.org/10.1029/2020JC016970>.
- Freilich, M., A. Mignot, G. Flierl, and R. Ferrari (2021), Grazing behavior and winter phytoplankton accumulation, *Biogeosciences*, 18(20), 5595-5607, doi: <https://doi.org/10.5194/bg-18-5595-2021>.
- Fujii, Y., T. Ishibashi, T. Yasuda, Y. Takaya, C. Kobayashi, and I. Ishikawa (2021), Improvements in tropical precipitation and sea surface air temperature fields in a coupled atmosphere–ocean data assimilation system, *Q. J. R. Meteorol. Soc.*, 147(735), 1317-1343, doi: <https://doi.org/10.1002/qj.3973>.
- Furue, R., M. Nonaka, and H. Sasaki (2021), On the statistics of the zonal jets in the eastern equatorial Pacific and eastern North Pacific in an ensemble of eddy-resolving ocean general circulation model runs, *Ocean Model.*, 159, 101761, doi: <https://doi.org/10.1016/j.ocemod.2021.101761>.
- Gadi, R., P. N. Vinayachandran, and D. N. Subramani (2021), Data-driven feature-oriented modeling of Southwest Monsoon Current, *Ocean Model.*, 168, 101912, doi: <https://doi.org/10.1016/j.ocemod.2021.101912>.
- Galán, A., G. S. Saldías, A. Corredor-Acosta, R. Muñoz, C. Lara, and J. L. Iriarte (2021), Argo Float Reveals Biogeochemical Characteristics Along the Freshwater Gradient Off Western Patagonia, *Frontiers in Marine Science*, 8(784), doi: <https://doi.org/10.3389/fmars.2021.613265>.
- Ganguly, D., K. Suryanarayana, and M. Raman (2021), Cyclone Ockhi Induced Upwelling and Associated Changes in Biological Productivity in Arabian Sea, *Mar. Geod.*, 44(1), 70-89, doi: <https://doi.org/10.1080/01490419.2020.1838675>.
- Gao, W., Z. Wang, X. Li, and H. Huang (2021), The increased storage of suspended particulate matter in the upper water of the tropical Western Pacific during the

- 2015/2016 super El Niño event, *Journal of Oceanology and Limnology*, 39(5), 1675-1689, doi: <https://doi.org/10.1007/s00343-021-0362-0>.
- Gao, Z., Z. Chen, X. Huang, Z. Xu, H. Yang, Z. Zhao, C. Ren, and L. Wu (2021), Internal Wave Imprints on Temperature Fluctuations as Revealed by Rapid-Sampling Deep Profiling Floats, *Journal of Geophysical Research: Oceans*, 126(12), e2021JC017878, doi: <https://doi.org/10.1029/2021JC017878>.
- García-Sánchez, G., A. M. Mancho, A. G. Ramos, J. Coca, B. Pérez-Gómez, E. Álvarez-Fanjul, M. G. Sotillo, M. García-León, V. J. García-Garrido, and S. Wiggins (2021), Very High Resolution Tools for the Monitoring and Assessment of Environmental Hazards in Coastal Areas, *Frontiers in Marine Science*, 7, doi: <https://doi.org/10.3389/fmars.2020.605804>.
- Gasparin, F., S. Cravatte, E. Greiner, C. Perruche, M. Hamon, S. Van Gennip, and J.-M. Lellouche (2021), Excessive productivity and heat content in tropical Pacific analyses: Disentangling the effects of in situ and altimetry assimilation, *Ocean Model.*, 160, 101768, doi: <https://doi.org/10.1016/j.ocemod.2021.101768>.
- Georgiou, S., S. L. Ypma, N. Brüggemann, J.-M. Sayol, C. G. van der Boog, P. Spence, J. D. Pietrzak, and C. A. Katsman (2021), Direct and Indirect Pathways of Convected Water Masses and Their impacts on the Overturning Dynamics of the Labrador Sea, *Journal of Geophysical Research: Oceans*, 126(1), e2020JC016654, doi: <https://doi.org/10.1029/2020JC016654>.
- Gibert, F., et al. (2021), Results of the Dragon 4 Project on New Ocean Remote Sensing Data for Operational Applications, *Remote Sensing*, 13(14), doi: <https://doi.org/10.3390/rs13142847>.
- Girishkumar, M. S., J. Joseph, M. J. McPhaden, and E. Pattabhi Ram Rao (2021), Atmospheric Cold Pools and Their Influence on Sea Surface Temperature in the Bay of Bengal, *Journal of Geophysical Research: Oceans*, 126(9), e2021JC017297, doi: <https://doi.org/10.1029/2021JC017297>.
- Gloege, L., et al. (2021), Quantifying Errors in Observationally Based Estimates of Ocean Carbon Sink Variability, *Glob. Biogeochem. Cycle*, 35(4), e2020GB006788, doi: <https://doi.org/10.1029/2020GB006788>.
- Goldsworth, F. W., D. P. Marshall, and H. L. Johnson (2021), Symmetric instability in cross-equatorial western boundary currents, *J. Phys. Oceanogr.*, 51(6), 2049-2067, doi: <https://doi.org/10.1175/JPO-D-20-0273.1>.
- Golubeva, E., M. Kraineva, G. Platov, D. Iakshina, and M. Tarkhanova (2021), Marine Heatwaves in Siberian Arctic Seas and Adjacent Region, *Remote Sensing*, 13(21), doi: <https://doi.org/10.3390/rs13214436>.
- Gomberg, J., K. Ariyoshi, S. Hautala, and H. P. Johnson (2021), The Finicky Nature of Earthquake Shaking-Triggered Submarine Sediment Slope Failures and Sediment Gravity Flows, *Journal of Geophysical Research: Solid Earth*, 126(10), e2021JB022588, doi: <https://doi.org/10.1029/2021JB022588>.
- Gonaduwege, L. P., G. Chen, T. Priyadarshana, D. Wang, and J. Yao (2021), Interannual variability of summertime eddy-induced heat transport in the Western South China Sea and its formation mechanism, *Climate Dynamics*, 57(1), 451-468, doi: <https://doi.org/10.1007/s00382-021-05719-7>.

- Gonçalves Neto, A., J. A. Langan, and J. B. Palter (2021), Changes in the Gulf Stream preceded rapid warming of the Northwest Atlantic Shelf, *Communications Earth & Environment*, 2(1), 74, doi: <https://doi.org/10.1038/s43247-021-00143-5>.
- Gopalakrishnan, G., B. D. Cornuelle, M. R. Mazloff, P. F. Worcester, and M. A. Dzieciuch (2021), State Estimates and Forecasts of the Eddy Field in the Subtropical Countercurrent in the Northern Philippine Sea, *J. Atmos. Ocean. Technol.*, 38(11), 1889-1911, doi: <https://doi.org/10.1175/JTECH-D-20-0083.1>.
- Gould, W. J., and S. A. Cunningham (2021), Global-scale patterns of observed sea surface salinity intensified since the 1870s, *Communications Earth & Environment*, 2(1), 76, doi: <https://doi.org/10.1038/s43247-021-00161-3>.
- Grabon, J. S., J. M. Toole, A. T. Nguyen, and R. A. Krishfield (2021), An analysis of Atlantic water in the Arctic Ocean using the Arctic subpolar gyre state estimate and observations, *Prog. Oceanogr.*, 198, 102685, doi: <https://doi.org/10.1016/j.pocean.2021.102685>.
- Grégoire, M., et al. (2021), A Global Ocean Oxygen Database and Atlas for Assessing and Predicting Deoxygenation and Ocean Health in the Open and Coastal Ocean, *Frontiers in Marine Science*, 8, doi: <https://doi.org/10.3389/fmars.2021.724913>.
- Gruber, N., P. W. Boyd, T. L. Frölicher, and M. Vogt (2021), Biogeochemical extremes and compound events in the ocean, *Nature*, 600(7889), 395-407, doi: <https://doi.org/10.1038/s41586-021-03981-7>.
- Guimbard, S., et al. (2021), The Salinity Pilot-Mission Exploitation Platform (Pi-MEP): A Hub for Validation and Exploitation of Satellite Sea Surface Salinity Data, *Remote Sensing*, 13(22), doi: <https://doi.org/10.3390/rs13224600>.
- Guinness, J. (2021), Gaussian process learning via Fisher scoring of Vecchia's approximation, *Statistics and Computing*, 31(3), 25, doi: <https://doi.org/10.1007/s11222-021-09999-1>.
- Guo, Y., Y. Li, F. Wang, and Y. Wei (2021), Ocean Salinity Aspects of the Ningaloo Niño, *J. Clim.*, 34(15), 6141-6161, doi: <https://doi.org/10.1175/JCLI-D-20-0890.1>.
- Haghibin, M., A. Sharafati, D. Motta, N. Al-Ansari, and M. H. M. Noghani (2021), Applications of soft computing models for predicting sea surface temperature: a comprehensive review and assessment, *Prog. in Earth and Planet. Sci.*, 8(1), 4, doi: <https://doi.org/10.1186/s40645-020-00400-9>.
- Hague, M., and M. Vichi (2021), Southern Ocean Biogeochemical Argo detect under-ice phytoplankton growth before sea ice retreat, *Biogeosciences*, 18(1), 25-38, doi: <https://doi.org/10.5194/bg-18-25-2021>.
- Haine, T. W. N., R. Gelderloos, M. A. Jimenez-Urias, A. H. Siddiqui, G. Lemson, D. Medvedev, A. Szalay, R. P. Abernathey, M. Almansí, and C. N. Hill (2021), Is Computational Oceanography Coming of Age?, *Bull. Amer. Meteorol. Soc.*, 102(8), E1481-E1493, doi: <https://doi.org/10.1175/BAMS-D-20-0258.1>.
- Hakuba, M. Z., T. Frederikse, and F. W. Landerer (2021), Earth's Energy Imbalance From the Ocean Perspective (2005–2019), *Geophys. Res. Lett.*, 48(16), e2021GL093624, doi: <https://doi.org/10.1029/2021GL093624>.
- Ham, Y.-G., Y.-S. Joo, and J.-Y. Park (2021), Mechanism of skillful seasonal surface chlorophyll prediction over the southern Pacific using a global earth system model,

- Climate Dynamics*, 56(1), 45-64, doi: <https://doi.org/10.1007/s00382-020-05403-2>.
- Han, G., F. Tian, C. Ma, and G. Chen (2021), The geometry of mesoscale eddies in the South China Sea: characteristics and implications, *International Journal of Digital Earth*, 1-16, doi: <https://doi.org/10.1080/17538947.2020.1842523>.
- Hátún, H., L. Chafik, and K. M. H. Larsen (2021), The Norwegian Sea Gyre – A Regulator of Iceland-Scotland Ridge Exchanges, *Frontiers in Marine Science*, 8(1001), doi: <https://doi.org/10.3389/fmars.2021.694614>.
- He, J., and A. Mahadevan (2021), How the Source Depth of Coastal Upwelling Relates to Stratification and Wind, *Journal of Geophysical Research: Oceans*, 126(12), e2021JC017621, doi: <https://doi.org/10.1029/2021JC017621>.
- He, X., Z. Chen, Y. Lu, W. Zhang, and K. Yu (2021), Spatio-temporal Variations of Sea Surface Wind in Coral Reef Regions over the South China Sea from 1988 to 2017, *Chinese Geographical Science*, 31(3), 522-538, doi: <https://doi.org/10.1007/s11769-021-1208-6>.
- He, Y., M. Feng, J. Xie, Q. He, J. Liu, J. Xu, Z. Chen, Y. Zhang, and S. Cai (2021), Revisit the Vertical Structure of the Eddies and Eddy-Induced Transport in the Leeuwin Current System, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016556, doi: <https://doi.org/10.1029/2020JC016556>.
- He, Y., P. Hu, B. Yang, Y. Yin, and Y. Hou (2021), Volume transport in the East Taiwan Channel in response to different tracks of typhoons as revealed by HYCOM data, *Journal of Oceanology and Limnology*, doi: <https://doi.org/10.1007/s00343-021-0318-4>.
- He, Z., X. Wang, X. Wu, Z. Chen, and J. Chen (2021), Projecting Three-Dimensional Ocean Thermohaline Structure in the North Indian Ocean From the Satellite Sea Surface Data Based on a Variational Method, *Journal of Geophysical Research: Oceans*, 126(1), e2020JC016759, doi: <https://doi.org/10.1029/2020JC016759>.
- Hendry, K. R., N. Briggs, S. Henson, J. Opher, J. A. Brearley, M. P. Meredith, M. J. Leng, and L. Meire (2021), Tracing Glacial Meltwater From the Greenland Ice Sheet to the Ocean Using Gliders, *Journal of Geophysical Research: Oceans*, 126(8), e2021JC017274, doi: <https://doi.org/10.1029/2021JC017274>.
- Hernandez-Lasheras, J., B. Mourre, A. Orfila, A. Santana, E. Reyes, and J. Tintoré (2021), Evaluating high-frequency radar data assimilation impact in coastal ocean operational modelling, *Ocean Sci.*, 17(4), 1157-1175, doi: <https://doi.org/10.5194/os-17-1157-2021>.
- Hobbs, W. R., C. Roach, T. Roy, J.-B. Sallée, and N. Bindoff (2021), Anthropogenic Temperature and Salinity Changes in the Southern Ocean, *J. Clim.*, 34(1), 215-228, doi: <https://doi.org/10.1175/JCLI-D-20-0454.1>.
- Hole, L. R., V. de Aguiar, K.-F. Dagestad, V. H. Kourafalou, Y. Androulidakis, H. Kang, M. Le Hénaff, and A. Calzada (2021), Long term simulations of potential oil spills around Cuba, *Marine Pollution Bulletin*, 167, 112285, doi: <https://doi.org/10.1016/j.marpolbul.2021.112285>.
- Hong, Y., Y. Du, X. Xia, L. Xu, Y. Zhang, and S.-P. Xie (2021), Subantarctic Mode Water and Its Long-Term Change in CMIP6 Models, *J. Clim.*, 34(23), 9385-9400, doi: <https://doi.org/10.1175/JCLI-D-21-0133.1>.

- Hosoda, S., R. Inoue, M. Nonaka, H. Sasaki, Y. Sasai, and M. Hirano (2021), Rapid water parcel transport across the Kuroshio Extension in the lower thermocline from dissolved oxygen measurements by Seaglider, *Prog. in Earth and Planet. Sci.*, 8(1), 16, doi: <https://doi.org/10.1186/s40645-021-00406-x>.
- Hoteit, I., et al. (2021), Towards an End-to-End Analysis and Prediction System for Weather, Climate, and Marine Applications in the Red Sea, *Bull. Amer. Meteorol. Soc.*, 102(1), E99-E122, doi: <https://doi.org/10.1175/BAMS-D-19-0005.1>.
- Houndegnonto, O. J., N. Kolodziejczyk, C. Maes, B. Bourlès, C. Y. Da-Allada, and N. Reul (2021), Seasonal Variability of Freshwater Plumes in the Eastern Gulf of Guinea as Inferred From Satellite Measurements, *Journal of Geophysical Research: Oceans*, 126(5), e2020JC017041, doi: <https://doi.org/10.1029/2020JC017041>.
- Hu, Q., X. Chen, X. He, Y. Bai, F. Gong, Q. Zhu, and D. Pan (2021), Effect of El Niño-Related Warming on Phytoplankton's Vertical Distribution in the Arabian Sea, *Journal of Geophysical Research: Oceans*, 126(11), e2021JC017882, doi: <https://doi.org/10.1029/2021JC017882>.
- Hu, Y., H. Beggs, and X. H. Wang (2021), Intercomparison of High-Resolution SST Climatologies Over the Australian Region, *Journal of Geophysical Research: Oceans*, 126(12), e2021JC017221, doi: <https://doi.org/10.1029/2021JC017221>.
- Huang, B., C. Liu, V. Banzon, E. Freeman, G. Graham, B. Hankins, T. Smith, and H.-M. Zhang (2021), Improvements of the daily optimum interpolation sea surface temperature (DOISST) version 2.1, *J. Clim.*, 34(8), 2923-2939, doi: <https://doi.org/10.1175/JCLI-D-20-0166.1>.
- Huang, B., C. Liu, E. Freeman, G. Graham, T. Smith, and H.-M. Zhang (2021), Assessment and Intercomparison of NOAA Daily Optimum Interpolation Sea Surface Temperature (DOISST) Version 2.1, *J. Clim.*, 34(18), 7421-7441, doi: <https://doi.org/10.1175/JCLI-D-21-0001.1>.
- Huang, B., C.-S. Shin, A. Kumar, M. L'Heureux, and M. A. Balmaseda (2021), The relative roles of decadal climate variations and changes in the ocean observing system on seasonal prediction skill of tropical Pacific SST, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-021-05630-1>.
- Huang, S., Z. Deng, G. Tang, H. Li, and T. Yu (2021), Numerical study on blue mackerel larval transport in East China Sea, *J. Mar. Syst.*, 217, 103515, doi: <https://doi.org/10.1016/j.jmarsys.2021.103515>.
- Huang, W., et al. (2021), Compounding factors for extreme flooding around Galveston Bay during Hurricane Harvey, *Ocean Model.*, 158, 101735, doi: <https://doi.org/10.1016/j.ocemod.2020.101735>.
- Iacono, R., E. Napolitano, M. Palma, and G. Sannino (2021), The Tyrrhenian Sea Circulation: A Review of Recent Work, *Sustainability*, 13(11), doi: <https://doi.org/10.3390/su13116371>.
- Injan, S., A. Wangwongchai, U. Humphries, A. Khan, and A. Yusuf (2021), Reinitializing Sea Surface Temperature in the Ensemble Intermediate Coupled Model for Improved Forecasts, *Axioms*, 10(3), doi: <https://doi.org/10.3390/axioms10030189>.
- Iskandar, I., M. Nagura, and M. J. McPhaden (2021), Role of the eastern boundary-generated waves on the termination of 1997 Indian Ocean Dipole event, *Geosci. Lett.*, 8(1), 35,

- doi: <https://doi.org/10.1186/s40562-021-00205-8>.
- Ivanova, D. P., J. L. McClean, J. Sprintall, and R. Chen (2021), The Oceanic Barrier Layer in the Eastern Indian Ocean as a Predictor for Rainfall Over Indonesia and Australia, *Geophys. Res. Lett.*, *48*(22), e2021GL094519, doi: <https://doi.org/10.1029/2021GL094519>.
- Iyer, S., and K. Drushka (2021), The Influence of Preexisting Stratification and Tropical Rain Modes on the Mixed Layer Salinity Response to Rainfall, *Journal of Geophysical Research: Oceans*, *126*(10), e2021JC017574, doi: <https://doi.org/10.1029/2021JC017574>.
- Jacobs, G., J. M. D'Addezio, H. Ngodock, and I. Souopgui (2021), Observation and model resolution implications to ocean prediction, *Ocean Model.*, *159*, 101760, doi: <https://doi.org/10.1016/j.ocemod.2021.101760>.
- Jain, V., D. Shankar, P. N. Vinayachandran, A. Mukherjee, and P. Amol (2021), Role of ocean dynamics in the evolution of mixed-layer temperature in the Bay of Bengal during the summer monsoon, *Ocean Model.*, *168*, 101895, doi: <https://doi.org/10.1016/j.ocemod.2021.101895>.
- Jang, E., Y. J. Kim, J. Im, and Y.-G. Park (2021), Improvement of SMAP sea surface salinity in river-dominated oceans using machine learning approaches, *GIScience & Remote Sensing*, *58*(1), 138-160, doi: <https://doi.org/10.1080/15481603.2021.1872228>.
- Jayaram, C., T. V. S. U. Bhaskar, N. Chacko, S. Prakash, and K. H. Rao (2021), Spatio-temporal variability of chlorophyll in the northern Indian Ocean: A biogeochemical argo data perspective, *Deep Sea Research Part II: Topical Studies in Oceanography*, *183*, 104928, doi: <https://doi.org/10.1016/j.dsr2.2021.104928>.
- Jayaram, C., J. Pavan Kumar, T. V. S. Udaya Bhaskar, I. V. G. Bhavani, T. D. V. Prasad Rao, and P. V. Nagamani (2021), Reconstruction of Gap-Free OCM-2 Chlorophyll-a Concentration Using DINEOF, *Journal of the Indian Society of Remote Sensing*, doi: <https://doi.org/10.1007/s12524-021-01317-6>.
- Jemai, A., H. Bünger, R. Henkel, D. Voß, J. Wollschläger, and O. Zielinski (2021), Hyperspectral underwater light field sensing onboard BGC-Argo Floats, paper presented at OCEANS 2021: San Diego – Porto, 20-23 Sept. 2021.
- Jemai, A., J. Wollschläger, D. Voß, and O. Zielinski (2021), Radiometry on Argo Floats: From the Multispectral State-of-the-Art on the Step to Hyperspectral Technology, *Frontiers in Marine Science*, *8*(945), doi: <https://www.frontiersin.org/article/10.3389/fmars.2021.676537>.
- Jeon, T. (2021), Impact of Ocean Domain Definition on Sea Level Budget, *Remote Sensing*, *13*(16), doi: <https://doi.org/10.3390/rs13163206>.
- Jeon, T., K.-W. Seo, B.-H. Kim, J.-S. Kim, J. Chen, and C. R. Wilson (2021), Sea level fingerprints and regional sea level change, *Earth and Planetary Science Letters*, *567*, 116985, doi: <https://doi.org/10.1016/j.epsl.2021.116985>.
- Jha, R. K., and T. V. S. Udaya Bhaskar (2021), Optimal parameters for generation of gridded product of Argo temperature and salinity using DIVA, *Journal of Earth System Science*, *130*(3), 170, doi: <https://doi.org/10.1007/s12040-021-01675-2>.
- Ji, H., X. Liu, C. Zhu, J. Yuan, B. Ji, and J. Guo (2021), On performance of CryoSat-2 altimeter data in deriving marine gravity over the Bay of Bengal, *Marine Geophysical Research*,

- 42(4), 39, doi: <https://doi.org/10.1007/s11001-021-09461-x>.
- Jiao, S., S. Huang, J. Wang, and X. Lv (2021), Inversion of Initial Field Based on a Temperature Transport Adjoint, *Journal of Marine Science and Engineering*, 9(7), doi: <https://doi.org/10.3390/jmse9070760>.
- Jing, W., and Y. Luo (2021), Volume Budget of Subantarctic Mode Water in the Southern Ocean From an Ocean General Circulation Model, *Journal of Geophysical Research: Oceans*, 126(10), e2020JC017040, doi: <https://doi.org/10.1029/2020JC017040>.
- Jing, Z., B. Fox-Kemper, H. Cao, R. Zheng, and Y. Du (2021), Submesoscale Fronts and Their Dynamical Processes Associated with Symmetric Instability in the Northwest Pacific Subtropical Ocean, *J. Phys. Oceanogr.*, 51(1), 83-100, doi: <https://journals.ametsoc.org/view/journals/phoc/51/1/jpo-d-20-0076.1.xml>.
- Jithin, A. K., and P. A. Francis (2021), Formation of an Intrathermocline Eddy Triggered by the Coastal-Trapped Wave in the Northern Bay of Bengal, *Journal of Geophysical Research: Oceans*, 126(12), e2021JC017725, doi: <https://doi.org/10.1029/2021JC017725>.
- Johns, W. E., M. Devana, A. Houk, and S. Zou (2021), Moored Observations of the Iceland-Scotland Overflow Plume Along the Eastern Flank of the Reykjanes Ridge, *Journal of Geophysical Research: Oceans*, 126(8), e2021JC017524, doi: <https://doi.org/10.1029/2021JC017524>.
- Johnson, A. R., and M. M. Omand (2021), Evolution of a Subducted Carbon-Rich Filament on the Edge of the North Atlantic Gyre, *Journal of Geophysical Research: Oceans*, 126(2), e2020JC016685, doi: <https://doi.org/10.1029/2020JC016685>.
- Johnson, G. C., et al. (2021), Global Oceans, *Bull. Amer. Meteorol. Soc.*, 102(8), S143-S198, doi: <https://doi.org/10.1175/BAMS-D-21-0083.1>.
- Johnson, G. C., J. Lyman, T. Boyer, L. Cheng, J. Gilson, M. Ishii, R. Killick, and S. Purkey (2021), Ocean heat content in Global Oceans in the State of the Climate in 2020, *Bull. Am. Meteorol. Soc.*, 102(8), doi: <https://doi.org/10.1175/BAMS-D-21-0083.1>.
- Johnson, G. C., J. Reagan, J. Lyman, T. Boyer, C. Schmid, and R. Locarnini (2021), Salinity in Global Oceans in the State of the Climate in 2020, *Bull. Am. Meteorol. Soc.*, 102(8), doi: <https://doi.org/10.1175/BAMS-D-21-0083.1>.
- Johnson, K. S., and M. B. Bif (2021), Constraint on net primary productivity of the global ocean by Argo oxygen measurements, *Nat. Geosci.*, 14(10), 769-774, doi: <https://doi.org/10.1038/s41561-021-00807-z>.
- Jorge, D. S. F., et al. (2021), A three-step semi analytical algorithm (3SAA) for estimating inherent optical properties over oceanic, coastal, and inland waters from remote sensing reflectance, *Remote Sens. Environ.*, 263, 112537, doi: <https://doi.org/10.1016/j.rse.2021.112537>.
- Jutard, Q., et al. (2021), Correction of Biogeochemical-Argo Radiometry for Sensor Temperature-Dependence and Drift: Protocols for a Delayed-Mode Quality Control, *Sensors*, 21(18), doi: <https://doi.org/10.3390/s21186217>.
- KASSIS, D., and G. KORRES (2021), Recent hydrological status of the Aegean Sea derived from free drifting profilers, *2021*, 22(2), 15, doi: <https://ejournals.epublishing.ekt.gr/index.php/hcmr-med-mar-sc/article/view/24833>.
- Kassis, D., and G. Varlas (2021), Hydrographic effects of an intense "medicane" over the

- central-eastern Mediterranean Sea in 2018, *Dynamics of Atmospheres and Oceans*, 93, 101185, doi: <https://doi.org/10.1016/j.dynatmoce.2020.101185>.
- Katsura, S., J. Sprintall, and F. M. Bingham (2021), Upper Ocean Stratification in the Eastern Pacific During the SPURS-2 Field Campaign, *Journal of Geophysical Research: Oceans*, 126(3), e2020JC016591, doi: <https://doi.org/10.1029/2020JC016591>.
- Kawai, Y., and S. Hosoda (2021), Global mapping of 10-day differences of temperature and salinity in the intermediate layer observed with Argo floats, *J. Oceanogr.*, doi: <https://doi.org/10.1007/s10872-021-00613-6>.
- Kawai, Y., S. Hosoda, K. Uehara, and T. Suga (2021), Heat and salinity transport between the permanent pycnocline and the mixed layer due to the obduction process evaluated from a gridded Argo dataset, *J. Oceanogr.*, 77(1), 75-92, doi: <https://doi.org/10.1007/s10872-020-00559-1>.
- Kelley, D. E., J. Harbin, and C. Richards (2021), argoFloats: An R Package for Analyzing Argo Data, *Frontiers in Marine Science*, 8(409), doi: <https://www.frontiersin.org/article/10.3389/fmars.2021.635922>.
- Kenigson, J. S., R. Gelderloos, and G. E. Manucharyan (2021), Vertical Structure of the Beaufort Gyre Halocline and the Crucial Role of the Depth-Dependent Eddy Diffusivity, *J. Phys. Oceanogr.*, 51(3), 845-860, doi: <https://doi.org/10.1175/JPO-D-20-0077.1>.
- Kenigson, J. S., and M.-L. Timmermans (2021), Nordic Seas Hydrography in the Context of Arctic and North Atlantic Ocean Dynamics, *J. Phys. Oceanogr.*, 51(1), 101-114, doi: <https://doi.org/10.1175/JPO-D-20-0071.1>.
- Kent, E. C., and J. J. Kennedy (2021), Historical Estimates of Surface Marine Temperatures, *Annual Review of Marine Science*, 13(1), 283-311, doi: <https://doi.org/10.1146/annurev-marine-042120-111807>.
- Kerns, B. W., and S. S. Chen (2021), Impacts of Precipitation–Evaporation–Salinity coupling on upper ocean stratification and momentum over the tropical pacific prior to onset of the 2018 El Niño, *Ocean Model.*, 168, 101892, doi: <https://doi.org/10.1016/j.ocemod.2021.101892>.
- Kersalé, M., et al. (2021), Multi-Year Estimates of Daily Heat Transport by the Atlantic Meridional Overturning Circulation at 34.5°S, *Journal of Geophysical Research: Oceans*, 126(5), e2020JC016947, doi: <https://doi.org/10.1029/2020JC016947>.
- Kido, S., M. Nonaka, and Y. Tanimoto (2021), Impacts of Salinity Variation on the Mixed-Layer Processes and Sea Surface Temperature in the Kuroshio-Oyashio Confluence Region, *Journal of Geophysical Research: Oceans*, 126(8), e2020JC016914, doi: <https://doi.org/10.1029/2020JC016914>.
- Kido, S., M. Nonaka, and Y. Tanimoto (2021), Sea Surface Temperature–Salinity Covariability and Its Scale-Dependent Characteristics, *Geophys. Res. Lett.*, 48(24), e2021GL096010, doi: <https://doi.org/10.1029/2021GL096010>.
- Kim, R., L. B. Tremblay, C. Brunette, and R. Newton (2021), A Regional Seasonal Forecast Model of Arctic Minimum Sea Ice Extent: Reflected Solar Radiation versus Late Winter Coastal Divergence, *J. Clim.*, 34(15), 6097-6113, doi: <https://doi.org/10.1175/JCLI-D-20-0846.1>.
- Kim, S.-Y., Y.-G. Park, Y. H. Kim, S. Seo, H. Jin, G. Pak, and H. J. Lee (2021), Origin, Variability,

- and Pathways of East Sea Intermediate Water in a High-Resolution Ocean Reanalysis, *Journal of Geophysical Research: Oceans*, 126(6), e2020JC017158, doi: <https://doi.org/10.1029/2020JC017158>.
- Kitsios, V., P. Sandery, T. J. O’Kane, and R. Fiedler (2021), Ensemble Kalman Filter Parameter Estimation of Ocean Optical Properties for Reduced Biases in a Coupled General Circulation Model, *Journal of Advances in Modeling Earth Systems*, 13(2), e2020MS002252, doi: <https://doi.org/10.1029/2020MS002252>.
- Kobashi, F., T. Nakano, N. Iwasaka, and T. Ogata (2021), Decadal-scale variability of the North Pacific subtropical mode water and its influence on the pycnocline observed along 137°E, *J. Oceanogr.*, 77(3), 487-503, doi: <https://doi.org/10.1007/s10872-020-00579-x>.
- Kobayashi, T. (2021), Salinity bias with negative pressure dependency caused by anisotropic deformation of CTD measuring cell under pressure examined with a dual-cylinder cell model, *Deep Sea Research Part I: Oceanographic Research Papers*, 167, 103420, doi: <https://doi.org/10.1016/j.dsr.2020.103420>.
- Kobayashi, T., K. Sato, and B. A. King (2021), Observed features of salinity bias with negative pressure dependency for measurements by SBE 41CP and SBE 61 CTD sensors on deep profiling floats, *Prog. Oceanogr.*, 198, 102686, doi: <https://doi.org/10.17882/42182#68322>.
- Koenigk, T., et al. (2021), Deep mixed ocean volume in the Labrador Sea in HighResMIP models, *Climate Dynamics*, 57, 1895–1918, doi: <https://doi.org/10.1007/s00382-021-05785-x>.
- Kolbe, M., F. Roquet, E. Pauthenet, and D. Nerini (2021), Impact of Thermohaline Variability on Sea Level Changes in the Southern Ocean, *Journal of Geophysical Research: Oceans*, 126(9), e2021JC017381, doi: <https://doi.org/10.1029/2021JC017381>.
- Kolodziejczyk, N., M. Hamon, J. Boutin, J.-L. Vergely, G. Reverdin, A. Supply, and N. Reul (2021), Objective Analysis of SMOS and SMAP Sea Surface Salinity to Reduce Large-Scale and Time-Dependent Biases from Low to High Latitudes, *J. Atmos. Ocean. Technol.*, 38(3), 405-421, doi: <https://doi.org/10.1175/JTECH-D-20-0093.1>.
- Koohestani, K., M. N. Allahdadi, and N. Chaichitehrani (2021), Oceanic Response to Tropical Cyclone Gonu (2007) in the Gulf of Oman and the Northern Arabian Sea: Estimating Depth of the Mixed Layer Using Satellite SST and Climatological Data, *Journal of Marine Science and Engineering*, 9(11), doi: <https://doi.org/10.3390/jmse9111244>.
- Kostov, Y., H. L. Johnson, D. P. Marshall, P. Heimbach, G. Forget, N. P. Holliday, M. S. Lozier, F. Li, H. R. Pillar, and T. Smith (2021), Distinct sources of interannual subtropical and subpolar Atlantic overturning variability, *Nat. Geosci.*, 14(7), 491-495, doi: <https://doi.org/10.1038/s41561-021-00759-4>.
- Kouketsu, S. (2021), Inverse estimation of diffusivity coefficients from salinity distributions on isopycnal surfaces using Argo float array data, *J. Oceanogr.*, 77, 615–630, doi: <https://doi.org/10.1007/s10872-021-00595-5>.
- Kubryakov, A. A., A. S. Mikaelyan, and S. V. Stanichny (2021), Extremely strong coccolithophore blooms in the Black Sea: The decisive role of winter vertical entrainment of deep water, *Deep Sea Research Part I: Oceanographic Research Papers*, 173, 103554, doi: <https://doi.org/10.1016/j.dsr.2021.103554>.

- Kubryakova, E. A., A. A. Kubryakov, and A. S. Mikaelyan (2021), Winter coccolithophore blooms in the Black Sea: Interannual variability and driving factors, *J. Mar. Syst.*, 213, 103461, doi: <https://doi.org/10.1016/j.jmarsys.2020.103461>.
- Kuntz, L. B., and D. P. Schrag (2021), Subtropical modulation of the equatorial undercurrent: a mechanism of Pacific variability, *Climate Dynamics*, 56(5), 1937-1949, doi: <https://doi.org/10.1007/s00382-020-05568-w>.
- Kuo, Y.-N., M.-H. Lo, Y.-C. Liang, Y.-H. Tseng, and C.-W. Hsu (2021), Terrestrial Water Storage Anomalies Emphasize Interannual Variations in Global Mean Sea Level During 1997–1998 and 2015–2016 El Niño Events, *Geophys. Res. Lett.*, 48(18), e2021GL094104, doi: <https://doi.org/10.1029/2021GL094104>.
- Kurian, J., P. Li, P. Chang, C. M. Patricola, and J. Small (2021), Impact of the Benguela coastal low-level jet on the southeast tropical Atlantic SST bias in a regional ocean model, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-020-05616-5>.
- Kuroda, H., and T. Setou (2021), Extensive Marine Heatwaves at the Sea Surface in the Northwestern Pacific Ocean in Summer 2021, *Remote Sensing*, 13(19), doi: <https://doi.org/10.3390/rs13193989>.
- Kuttippurath, J., N. Sunanda, M. V. Martin, and K. Chakraborty (2021), Tropical storms trigger phytoplankton blooms in the deserts of north Indian Ocean, *npj Climate and Atmospheric Science*, 4(1), 11, doi: <https://doi.org/10.1038/s41612-021-00166-x>.
- Kwieceński, J. V., and A. R. Babbin (2021), A High-Resolution Atlas of the Eastern Tropical Pacific Oxygen Deficient Zones, *Glob. Biogeochem. Cycle*, 35(12), e2021GB007001, doi: <https://doi.org/10.1029/2021GB007001>.
- Lan, W.-H., C.-Y. Kuo, L.-C. Lin, and H.-C. Kao (2021), Annual Sea Level Amplitude Analysis over the North Pacific Ocean Coast by Ensemble Empirical Mode Decomposition Method, *Remote Sensing*, 13(4), doi: <https://doi.org/10.3390/rs13040730>.
- Lazzari, P., S. Salon, E. Terzić, W. W. Gregg, F. D'Ortenzio, V. Vellucci, E. Organelli, and D. Antoine (2021), Assessment of the spectral downward irradiance at the surface of the Mediterranean Sea using the radiative Ocean-Atmosphere Spectral Irradiance Model (OASIM), *Ocean Sci.*, 17(3), 675-697, doi: <https://os.copernicus.org/articles/17/675/2021/>.
- Le Bras, I., F. Straneo, M. Muilwijk, L. H. Smedsrud, F. Li, M. S. Lozier, and N. P. Holliday (2021), How Much Arctic Fresh Water Participates in the Subpolar Overturning Circulation?, *J. Phys. Oceanogr.*, 51(3), 955-973, doi: <https://doi.org/10.1175/JPO-D-20-0240.1>.
- Le Hénaff, M., R. Domingues, G. Halliwell, J. A. Zhang, H.-S. Kim, M. Aristizabal, T. Miles, S. Glenn, and G. Goni (2021), The Role of the Gulf of Mexico Ocean Conditions in the Intensification of Hurricane Michael (2018), *Journal of Geophysical Research: Oceans*, 126(5), e2020JC016969, doi: <https://doi.org/10.1029/2020JC016969>.
- Lee, E., J.-H. Kim, K.-Y. Heo, and Y.-K. Cho (2021), Advection Fog over the Eastern Yellow Sea: WRF Simulation and Its Verification by Satellite and In Situ Observations, *Remote Sensing*, 13(8), doi: <https://doi.org/10.3390/rs13081480>.
- Lele, R., S. G. Purkey, J. D. Nash, J. A. MacKinnon, A. M. Thurnherr, C. B. Whalen, S. Mecking, G. Voet, and L. D. Talley (2021), Abyssal Heat Budget in the Southwest Pacific Basin, *J. Phys. Oceanogr.*, 51(11), 3317-3333, doi: <https://doi.org/10.1175/JPO-D-21-0045.1>.

- Lenetsky, J. E., B. Tremblay, C. Brunette, and G. Meneghello (2021), Subseasonal Predictability of Arctic Ocean Sea Ice Conditions: Bering Strait and Ekman-Driven Ocean Heat Transport, *J. Clim.*, 34(11), 4449–4462, doi: <https://doi.org/10.1175/JCLI-D-20-0544.1>.
- Lerner, P., A. Romanou, M. Kelley, J. Romanski, R. Ruedy, and G. Russell (2021), Drivers of Air-Sea CO₂ Flux Seasonality and its Long-Term Changes in the NASA-GISS Model CMIP6 Submission, *Journal of Advances in Modeling Earth Systems*, 13(2), e2019MS002028, doi: <https://doi.org/10.1029/2019MS002028>.
- Levin, J., H. G. Arango, B. Laughlin, E. Hunter, J. Wilkin, and A. M. Moore (2021), Observation impacts on the Mid-Atlantic Bight front and cross-shelf transport in 4D-Var ocean state estimates: Part II — The Pioneer Array, *Ocean Model.*, 157, 101731, doi: <https://doi.org/10.1016/j.ocemod.2020.101731>.
- L'Hégaret, P., C. d. Marez, M. Morvan, T. Meunier, and X. Carton (2021), Spreading and Vertical Structure of the Persian Gulf and Red Sea Outflows in the Northwestern Indian Ocean, *Journal of Geophysical Research: Oceans*, 126(4), e2019JC015983, doi: <https://doi.org/10.1029/2019JC015983>.
- Li, D., Z. Gao, and D. Song (2021), Analysis of environmental factors affecting the large-scale long-term sequence of green tide outbreaks in the Yellow Sea, *Estuarine, Coastal and Shelf Science*, 260, 107504, doi: <https://doi.org/10.1016/j.ecss.2021.107504>.
- Li, D., Z. Gao, and F. Xu (2021), Research on the dissipation of green tide and its influencing factors in the Yellow Sea based on Google Earth Engine, *Marine Pollution Bulletin*, 172, 112801, doi: <https://doi.org/10.1016/j.marpolbul.2021.112801>.
- Li, F., et al. (2021), Subpolar North Atlantic western boundary density anomalies and the Meridional Overturning Circulation, *Nature Communications*, 12(1), 3002, doi: <https://doi.org/10.1038/s41467-021-23350-2>.
- Li, F., M. S. Lozier, N. P. Holliday, W. E. Johns, I. A. Le Bras, B. I. Moat, S. A. Cunningham, and M. F. de Jong (2021), Observation-based estimates of heat and freshwater exchanges from the subtropical North Atlantic to the Arctic, *Prog. Oceanogr.*, 197, 102640, doi: <https://doi.org/10.1016/j.pocean.2021.102640>.
- Li, J., Y. Yang, G. Wang, H. Cheng, and L. Sun (2021), Enhanced Oceanic Environmental Responses and Feedbacks to Super Typhoon Nida (2009) during the Sudden-Turning Stage, *Remote Sensing*, 13(14), doi: <https://doi.org/10.3390/rs13142648>.
- Li, J., H. Zhang, S. Liu, X. Wang, and L. Sun (2021), The Response and Feedback of Ocean Mesoscale Eddies to Four Sequential Typhoons in 2016 Based on Multiple Satellite Observations and Argo Floats, *Remote Sensing*, 13(19), doi: <https://doi.org/10.3390/rs13193805>.
- Li, J., Q. Zheng, M. Li, Q. Li, and L. Xie (2021), Spatiotemporal Distributions of Ocean Color Elements in Response to Tropical Cyclone: A Case Study of Typhoon Mangkhut (2018) Past over the Northern South China Sea, *Remote Sensing*, 13(4), doi: <https://doi.org/10.3390/rs13040687>.
- Li, M., F. Shen, and X. Sun (2021), 2019–2020 Australian bushfire air particulate pollution and impact on the South Pacific Ocean, *Scientific Reports*, 11(1), 12288, doi: <https://doi.org/10.1038/s41598-021-91547-y>.

- Li, M., et al. (2021), A Strong Sub-Thermocline Intrusion of the North Equatorial Subsurface Current Into the Makassar Strait in 2016–2017, *Geophys. Res. Lett.*, 48(8), e2021GL092505, doi: <https://doi.org/10.1029/2021GL092505>.
- Li, N., S. Wang, L. Guan, and M. Liu (2021), Assessment of Global FY-3C/VIRR Sea Surface Temperature, *Remote Sensing*, 13(16), doi: <https://doi.org/10.3390/rs13163249>.
- Li, Q., M. H. England, and A. McC. Hogg (2021), Transient Response of the Southern Ocean to Idealized Wind and Thermal Forcing across Different Model Resolutions, *J. Clim.*, 34(13), 5477–5496, doi: <https://doi.org/10.1175/JCLI-D-20-0981.1>.
- Li, Q., Q. He, and C. Chen (2021), Retrieval of Daily Mean VIIRS SST Products in China Seas, *Remote Sensing*, 13(24), doi: <https://doi.org/10.3390/rs13245158>.
- Li, Q., W. Sun, X. Yun, B. Huang, W. Dong, X. L. Wang, P. Zhai, and P. Jones (2021), An updated evaluation of the global mean land surface air temperature and surface temperature trends based on CLSAT and CMST, *Climate Dynamics*, 56(1), 635–650, doi: <https://doi.org/10.1007/s00382-020-05502-0>.
- Li, W.-T., J.-M. Chen, R.-S. Tseng, and T.-L. Lai (2021), Multiple Modulating Processes for Intensive Tropical Cyclone Activity Affecting Taiwan in September 2016, *Asia-Pacific Journal of Atmospheric Sciences*, doi: <https://doi.org/10.1007/s13143-021-00245-2>.
- Li, Y., W. Sun, J. Zhang, J. Meng, and Y. Zhao (2021), Reconstruction of arctic SST data and generation of multi-source satellite fusion products with high temporal and spatial resolutions, *Remote Sensing Letters*, 12(7), 695–703, doi: <https://doi.org/10.1080/2150704X.2021.1931531>.
- Li, Z., H. Aiki, M. Nagura, and T. Ogata (2021), The vertical structure of annual wave energy flux in the tropical Indian Ocean, *Prog. in Earth and Planet. Sci.*, 8(1), 43, doi: <https://doi.org/10.1186/s40645-021-00432-9>.
- Li, Z., M. H. England, S. Groeskamp, I. Cerovečki, and Y. Luo (2021), The Origin and Fate of Subantarctic Mode Water in the Southern Ocean, *J. Phys. Oceanogr.*, 51(9), 2951–2972, doi: <https://doi.org/10.1175/JPO-D-20-0174.1>.
- Li, Z., S. Huang, X. Zhu, Z. Sun, Y. Long, and H. Xie (2021), Short-term offshore extension of Brahmaputra-Ganges and Irrawaddy freshwater plumes to the central northern Bay of Bengal based on in situ and satellite observations, *Acta Oceanol. Sin.*, 40(5), 80–93, doi: <https://doi.org/10.1007/s13131-021-1729-y>.
- Li, Z., T. Lian, J. Ying, X.-H. Zhu, F. Papa, H. Xie, and Y. Long (2021), The Cause of an Extremely Low Salinity Anomaly in the Bay of Bengal During 2012 Spring, *Journal of Geophysical Research: Oceans*, 126(10), e2021JC017361, doi: <https://doi.org/10.1029/2021JC017361>.
- Li, Z., M. S. Lozier, and N. Cassar (2021), Linking Southern Ocean Mixed-Layer Dynamics to Net Community Production on Various Timescales, *Journal of Geophysical Research: Oceans*, 126(10), e2021JC017537, doi: <https://doi.org/10.1029/2021JC017537>.
- Li, Z., Z. Wang, Y. Li, Y. Zhang, J. Zheng, and S. Gao (2021), Evaluation of global high-resolution reanalysis products based on the Chinese global oceanography forecasting system: 基于中国全球海洋预报系统(CGOFs)的全球高分辨率再分析产品评估, *Atmospheric and Oceanic Science Letters*, 100032, doi: <https://doi.org/10.1016/j.aosl.2021.100032>.
- Lian, Z., Z. Wei, Y. Wang, and X. Wang (2021), Geographical variation and controlling

- mechanism of eddy-induced vertical temperature anomalies and eddy available potential energy in the South China Sea, *Ocean Dyn.*, doi: <https://doi.org/10.1007/s10236-021-01441-4>.
- Liang, X., C. Liu, R. M. Ponte, and D. P. Chambers (2021), A Comparison of the Variability and Changes in Global Ocean Heat Content from Multiple Objective Analysis Products during the Argo Period, *J. Clim.*, *34*(19), 7875–7895, doi: <https://doi.org/10.1175/JCLI-D-20-0794.1>.
- Lin, I.-I., et al. (2021), A Tale of Two Rapidly Intensifying Supertyphoons: Hagibis (2019) and Haiyan (2013), *Bull. Amer. Meteorol. Soc.*, *102*(9), E1645–E1664, doi: <https://doi.org/10.1175/BAMS-D-20-0223.1>.
- Lin, W., H. Lin, and J. Hu (2021), The Tilt of Mean Dynamic Topography and its Seasonality Along the Coast of the Chinese Mainland, *Journal of Geophysical Research: Oceans*, *126*(2), e2020JC016778, doi: <https://doi.org/10.1029/2020JC016778>.
- Ling, Z., Z. Chen, G. Wang, H. He, and C. Chen (2021), Recovery of Tropical Cyclone Induced SST Cooling Observed by Satellite in the Northwestern Pacific Ocean, *Remote Sensing*, *13*(18), doi: <https://doi.org/10.3390/rs13183781>.
- Liu, B., W. Wan, Z. Guo, R. Ji, T. Wang, G. Tang, Y. Cui, and Y. Hong (2021), First Assessment of CyGNSS-Incorporated SMAP Sea Surface Salinity Retrieval Over Pan-Tropical Ocean, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, *14*, 12163–12173, doi: <https://doi.org/10.1109/JSTARS.2021.3128553>.
- Liu, B., W. Wan, and Y. Hong (2021), Can the Accuracy of Sea Surface Salinity Measurement be Improved by Incorporating Spaceborne GNSS-Reflectometry?, *IEEE Geosci. Remote Sens. Lett.*, *18*(1), 3–7, doi: <https://doi.org/10.1109/LGRS.2020.2967472>.
- Liu, H., S. Li, and Z. Wei (2021), Interannual variability in the subduction of the South Atlantic subtropical underwater, *Climate Dynamics*, *57*(3), 1061–1077, doi: <https://doi.org/10.1007/s00382-021-05758-0>.
- Liu, H., P. Lin, W. Zheng, Y. Luan, J. Ma, M. Ding, H. Mo, L. Wan, and T. Ling (2021), A global eddy-resolving ocean forecast system in China – LICOM Forecast System (LFS), *J. Oper. Oceanogr.*, 1–13, doi: <https://doi.org/10.1080/1755876X.2021.1902680>.
- Liu, H., and Z. Wei (2021), Intercomparison of Global Sea Surface Salinity from Multiple Datasets over 2011–2018, *Remote Sensing*, *13*(4), doi: <https://doi.org/10.3390/rs13040811>.
- Liu, H., Z. Wei, I. Richter, X. Nie, and C. Li (2021), Influence of Salinity and Temperature Gradients on the Variability of the North Brazil Undercurrent, *Frontiers in Marine Science*, *8*, doi: <https://doi.org/10.3389/fmars.2021.744833>.
- Liu, H., H. Zhou, W. Yang, X. Liu, Y. Li, Y. Yang, X. Chen, and X. Li (2021), A three-dimensional gravest empirical mode determined from hydrographic observations in the western equatorial Pacific Ocean, *J. Mar. Syst.*, *214*, 103487, doi: <https://doi.org/10.1016/j.jmarsys.2020.103487>.
- Liu, L., Y. Li, and F. Wang (2021), MJO-Induced Intraseasonal Mixed Layer Depth Variability in the Equatorial Indian Ocean and Impacts on Subsurface Water Obduction, *J. Phys. Oceanogr.*, *51*(4), 1247–1263, doi: <https://doi.org/10.1175/JPO-D-20-0179.1>.
- Liu, L., J. Wen, Z. Zheng, and H. Su (2021), An improved approach for mining association rules in parallel using Spark Streaming, *International Journal of Circuit Theory and*

- Applications*, 49(4), 1028-1039, doi: <https://doi.org/10.1002/cta.2935>.
- Liu, S.-B., X.-D. Cui, Y.-N. Li, X. Jin, W. Zhou, H.-X. Dang, and H. Li (2021), Retrieval of sea surface temperature from the scanning microwave radiometer aboard HY-2B, *Int. J. Remote Sens.*, 42(12), 4621-4643, doi: <https://doi.org/10.1080/01431161.2021.1899330>.
- Liu, X., and N. M. Levine (2021), Ecosystem implications of fine-scale frontal disturbances in the oligotrophic ocean – An idealized modeling approach, *Prog. Oceanogr.*, 192, 102519, doi: <https://doi.org/10.1016/j.pocean.2021.102519>.
- Liu, X., et al. (2021), Development of Coupled Data Assimilation With the BCC Climate System Model: Highlighting the Role of Sea-Ice Assimilation for Global Analysis, *Journal of Advances in Modeling Earth Systems*, 13(4), e2020MS002368, doi: <https://doi.org/10.1029/2020MS002368>.
- Liu, Y., H. LÜ, H. Zhang, Y. Cui, and X. Xing (2021), Effects of ocean eddies on the tropical storm Roanu intensity in the Bay of Bengal, *PLOS ONE*, 16(3), e0247521, doi: <https://doi.org/10.1371/journal.pone.0247521>.
- Lo Monaco, C., N. Metzl, J. Fin, C. Mignon, P. Cuet, E. Douville, M. Gehlen, T. T. T. Chau, and A. Tribollet (2021), Distribution and long-term change of the sea surface carbonate system in the Mozambique Channel (1963–2019), *Deep Sea Research Part II: Topical Studies in Oceanography*, 186-188, 104936, doi: <https://doi.org/10.1016/j.dsr2.2021.104936>.
- Lockwood, J. W., C. O. Dufour, S. M. Griffies, and M. Winton (2021), On the Role of the Antarctic Slope Front on the Occurrence of the Weddell Sea Polynya under Climate Change, *J. Clim.*, 34(7), 2529-2548, doi: <https://doi.org/10.1175/JCLI-D-20-0069.1>.
- Loeb, N. G., G. C. Johnson, T. J. Thorsen, J. M. Lyman, F. G. Rose, and S. Kato (2021), Satellite and Ocean Data Reveal Marked Increase in Earth's Heating Rate, *Geophys. Res. Lett.*, 48(13), e2021GL093047, doi: <https://doi.org/10.1029/2021GL093047>.
- Long, J. S., A. J. Fassbender, and M. L. Estapa (2021), Depth-Resolved Net Primary Production in the Northeast Pacific Ocean: A Comparison of Satellite and Profiling Float Estimates in the Context of Two Marine Heatwaves, *Geophys. Res. Lett.*, 48(19), e2021GL093462, doi: <https://doi.org/10.1029/2021GL093462>.
- Long, Y., X.-H. Zhu, X. Guo, F. Ji, and Z. Li (2021), Variations of the Kuroshio in the Luzon Strait Revealed by EOF Analysis of Repeated XBT Data and Sea-Level Anomalies, *Journal of Geophysical Research: Oceans*, 126(7), e2020JC016849, doi: <https://doi.org/10.1029/2020JC016849>.
- Lovindeer, R., L. J. Ustick, F. Primeau, A. C. Martiny, and K. R. M. Mackey (2021), Modeling Ocean Color Niche Selection by Synechococcus Blue-Green Acclimators, *Journal of Geophysical Research: Oceans*, 126(10), e2021JC017434, doi: <https://doi.org/10.1029/2021JC017434>.
- Lü, H., Y. Liu, Y. Wang, Y. Cui, X. Ge, and L. Zhou (2021), Abnormal reverse intrusion of the Kuroshio Branch Current induced by super typhoon soudelor, *Estuarine, Coastal and Shelf Science*, 256, 107377, doi: <https://doi.org/10.1016/j.ecss.2021.107377>.
- Lu, X., et al. (2021), New Ocean Subsurface Optical Properties From Space Lidars: CALIOP/CALIPSO and ATLAS/ICESat-2, *Earth and Space Science*, 8(10), e2021EA001839, doi: <https://doi.org/10.1029/2021EA001839>.

- Lu, Y., Q. Liu, and S.-P. Xie (2021), Covariability of Subantarctic Mode Water and the Southern Branch of the Subtropical Indian Ocean Countercurrent in Argo Observations, *Journal of Ocean University of China*, 20(6), 1316-1324, doi: <https://doi.org/10.1007/s11802-021-4677-4>.
- Ludwigsen, C. A., and O. B. Andersen (2021), Contributions to Arctic sea level from 2003 to 2015, *Advances in Space Research*, 68(2), 703-710, doi: <https://doi.org/10.1016/j.asr.2019.12.027>.
- Lund, D. C., Z. Chase, K. E. Kohfeld, and E. A. Wilson (2021), Tracking Southern Ocean Sea Ice Extent With Winter Water: A New Method Based on the Oxygen Isotopic Signature of Foraminifera, *Paleoceanography and Paleoclimatology*, 36(6), e2020PA004095, doi: <https://doi.org/10.1029/2020PA004095>.
- Lyu, K., X. Zhang, and J. A. Church (2021), Projected ocean warming constrained by the ocean observational record, *Nature Climate Change*, 11(10), 834-839, doi: <https://doi.org/10.1038/s41558-021-01151-1>.
- Ma, C., J. Zhao, B. Ai, S. Sun, G. Zhang, W. Huang, and G. Wang (2021), Assessing responses of phytoplankton to consecutive typhoons by combining Argo, remote sensing and numerical simulation data, *Science of The Total Environment*, 790, 148086, doi: <https://doi.org/10.1016/j.scitotenv.2021.148086>.
- Ma, W., P. Xiu, F. Chai, L. Ran, M. G. Wiesner, J. Xi, Y. Yan, and E. Fredj (2021), Impact of mesoscale eddies on the source funnel of sediment trap measurements in the South China Sea, *Prog. Oceanogr.*, 194, 102566, doi: <https://doi.org/10.1016/j.pcean.2021.102566>.
- Ma, Z., H. S. Fok, and L. Zhou (2021), GRACE-Derived Time Lag of Mekong Estuarine Freshwater Transport in the Western South China Sea Validated by Isotopic Tracer Age, *Remote Sensing*, 13(6), doi: <https://doi.org/10.3390/rs13061193>.
- Mackay, N., and A. Watson (2021), Winter Air-Sea CO₂ Fluxes Constructed From Summer Observations of the Polar Southern Ocean Suggest Weak Outgassing, *Journal of Geophysical Research: Oceans*, 126(5), e2020JC016600, doi: <https://doi.org/10.1029/2020JC016600>.
- Majumder, S., R. M. Castelao, and C. M. Amos (2021), Freshwater Variability and Transport in the Labrador Sea From In Situ and Satellite Observations, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016751, doi: <https://doi.org/10.1029/2020JC016751>.
- Manche, S. S., R. K. Nayak, P. C. Mohanty, M. V. R. Shesasai, and V. K. Dadhwal (2021), Assessment of mass-induced sea level variability in the Tropical Indian Ocean based on GRACE and altimeter observations, *Journal of Geodesy*, 95(2), 19, doi: <https://doi.org/10.1007/s00190-021-01471-2>.
- Mandal, A. K., A. Chaudhary, N. Agarwal, and R. Sharma (2021), Sub-Surface Ocean Structure from Satellite Surface Observations in the North Indian Ocean, *Mar. Geod.*, 44(6), 573-592, doi: <https://doi.org/10.1080/01490419.2021.1974132>.
- Maneesha, K., D. H. Prasad, and K. V. K. R. K. Patnaik (2021), Biophysical responses to tropical cyclone Hudhud over the Bay of Bengal, *J. Oper. Oceanogr.*, 14(2), 87-97, doi: <https://doi.org/10.1080/1755876X.2019.1684135>.
- Maneesha, K., V. S. Prasad, and K. Venkateswararao (2021), Ocean impact on the

- intensification of cyclone Titli, *Journal of Earth System Science*, 130(3), 164, doi: <https://doi.org/10.1007/s12040-021-01660-9>.
- Manta, G., et al. (2021), The South Atlantic Meridional Overturning Circulation and Mesoscale Eddies in the First GO-SHIP Section at 34.5°S, *Journal of Geophysical Research: Oceans*, 126(2), e2020JC016962, doi: <https://doi.org/10.1029/2020JC016962>.
- Marchal, O., and N. Zhao (2021), On the Estimation of Deep Atlantic Ventilation from Fossil Radiocarbon Records. Part I: Modern Reference Estimates, *J. Phys. Oceanogr.*, 51(6), 1843-1873, doi: <https://doi.org/10.1175/JPO-D-20-0153.1>.
- Marochi, M. Z., T. M. Costa, and L. B. Buckley (2021), Ocean warming is projected to speed development and decrease survival of crab larvae, *Estuarine, Coastal and Shelf Science*, 259, 107478, doi: <https://doi.org/10.1016/j.ecss.2021.107478>.
- Martínez-Moreno, J., A. M. Hogg, M. H. England, N. C. Constantinou, A. E. Kiss, and A. K. Morrison (2021), Global changes in oceanic mesoscale currents over the satellite altimetry record, *Nature Climate Change*, 11(5), 397-403, doi: <https://doi.org/10.1038/s41558-021-01006-9>.
- Masuda, S., and S. Osafune (2021), Ocean state estimations for synthesis of ocean-mixing observations, *J. Oceanogr.*, doi: <https://doi.org/10.1007/s10872-020-00587-x>.
- Mathew, T., S. Prakash, L. Shenoy, A. Chatterjee, T. V. S. Udaya Bhaskar, and B. Wojtasiewicz (2021), Observed variability of monsoon blooms in the north-central Arabian Sea and its implication on oxygen concentration: A bio-argo study, *Deep Sea Research Part II: Topical Studies in Oceanography*, 184-185, 104935, doi: <https://doi.org/10.1016/j.dsr2.2021.104935>.
- Matsumoto, K., Y. Sasai, K. Sasaoka, E. Siswanto, and M. C. Honda (2021), The Formation of Subtropical Phytoplankton Blooms Is Dictated by Water Column Stability During Winter and Spring in the Oligotrophic Northwestern North Pacific, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016864, doi: <https://doi.org/10.1029/2020JC016864>.
- Maurer, T. L., J. N. Plant, and K. S. Johnson (2021), Delayed-Mode Quality Control of Oxygen, Nitrate, and pH Data on SOCCOM Biogeochemical Profiling Floats, *Frontiers in Marine Science*, 8(1118), doi: <https://doi.org/10.3389/fmars.2021.683207>.
- McGeady, R., C. Lordan, and A. M. Power (2021), Shift in the larval phenology of a marine ectotherm due to ocean warming with consequences for larval transport, *Limnol. Oceanogr.*, 66(2), 543-557, doi: <https://doi.org/10.1002/lno.11622>.
- Meccia, V. L., D. Iovino, and A. Bellucci (2021), North Atlantic gyre circulation in PRIMAVERA models, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-021-05686-z>.
- Memarian Sorkhabi, O., J. Asgari, and A. Amiri-Simkooei (2021), Monitoring of Caspian Sea-level changes using deep learning-based 3D reconstruction of GRACE signal, *Measurement*, 174, 109004, doi: <https://doi.org/10.1016/j.measurement.2021.109004>.
- Menezes, V. V. (2021), Advective pathways and transit times of the Red Sea Overflow Water in the Arabian Sea from Lagrangian simulations, *Prog. Oceanogr.*, 199, 102697, doi: <https://doi.org/10.1016/j.pcean.2021.102697>.
- Meng, L., C. Yan, W. Zhuang, W. Zhang, and X.-H. Yan (2021), Reconstruction of

- Three-Dimensional Temperature and Salinity Fields From Satellite Observations, *Journal of Geophysical Research: Oceans*, 126(11), e2021JC017605, doi: <https://doi.org/10.1029/2021JC017605>.
- Menna, M., R. Gerin, G. Notarstefano, E. Mauri, A. Bussani, M. Pacciaroni, and P.-M. Poulain (2021), On the Circulation and Thermohaline Properties of the Eastern Mediterranean Sea, *Frontiers in Marine Science*, 8(903), doi: <https://doi.org/10.3389/fmars.2021.671469>.
- Mensah, V., Y. Nakayama, M. Fujii, Y. Nogi, and K. I. Ohshima (2021), Dense water downslope flow and AABW production in a numerical model: Sensitivity to horizontal and vertical resolution in the region off Cape Darnley polynya, *Ocean Model.*, 165, 101843, doi: <https://doi.org/10.1016/j.ocemod.2021.101843>.
- Meunier, T., E. Pallás Sanz, C. de Marez, J. Pérez, M. Tenreiro, A. Ruiz Angulo, and A. Bower (2021), The Dynamical Structure of a Warm Core Ring as Inferred from Glider Observations and Along-Track Altimetry, *Remote Sensing*, 13(13), doi: <https://doi.org/10.3390/rs13132456>.
- Meza-Padilla, R., C. Enriquez, and C. M. Appendini (2021), Rapid assessment tool for oil spill planning and contingencies, *Marine Pollution Bulletin*, 166, 112196, doi: <https://doi.org/10.1016/j.marpolbul.2021.112196>.
- Miao, M., Z. Zhang, B. Qiu, Z. Liu, X. Zhang, C. Zhou, S. Guan, X. Huang, W. Zhao, and J. Tian (2021), On Contributions of Multiscale Dynamic Processes to the Steric Height in the Northeastern South China Sea as Revealed by Moored Observations, *Geophys. Res. Lett.*, 48(14), e2021GL093829, doi: <https://doi.org/10.1029/2021GL093829>.
- Mihanović, H., I. Vilibić, J. Šepić, F. Matić, Z. Ljubešić, E. Mauri, R. Gerin, G. Notarstefano, and P.-M. Poulain (2021), Observation, Preconditioning and Recurrence of Exceptionally High Salinities in the Adriatic Sea, *Frontiers in Marine Science*, 8(834), doi: <https://doi.org/10.3389/fmars.2021.672210>.
- Miyazawa, Y., S. M. Varlamov, T. Miyama, Y. Kurihara, H. Murakami, and M. Kachi (2021), A Nowcast/Forecast System for Japan's Coasts Using Daily Assimilation of Remote Sensing and In Situ Data, *Remote Sensing*, 13(13), doi: <https://doi.org/10.3390/rs13132431>.
- Mohapatra, S., and C. Gnanaseelan (2021), A new mode of decadal variability in the Tropical Indian Ocean subsurface temperature and its association with shallow meridional overturning circulation, *Glob. Planet. Change*, 207, 103656, doi: <https://doi.org/10.1016/j.gloplacha.2021.103656>.
- Moore, A. M., J. Levin, H. G. Arango, and J. Wilkin (2021), Assessing the performance of an ocean observing, analysis and forecast System for the Mid-Atlantic Bight using array modes, *Ocean Model.*, 164, 101821, doi: <https://doi.org/10.1016/j.ocemod.2021.101821>.
- Moreira, L., A. Cazenave, A. Barnoud, and J. Chen (2021), Sea-Level Fingerprints Due to Present-Day Water Mass Redistribution in Observed Sea-Level Data, *Remote Sensing*, 13(22), doi: <https://doi.org/10.3390/rs13224311>.
- Moritz, M., K. Jochumsen, D. Kieke, B. Klein, H. Klein, M. Köllner, and M. Rhein (2021), Volume Transport Time Series and Variability of the North Atlantic Eastern Boundary Current at Goban Spur, *Journal of Geophysical Research: Oceans*, 126(9),

- e2021JC017393, doi: <https://doi.org/10.1029/2021JC017393>.
- Morrongiello, J. R., P. L. Horn, C. Ó Maolagáin, and P. J. H. Sutton (2021), Synergistic effects of harvest and climate drive synchronous somatic growth within key New Zealand fisheries, *Global Change Biology*, *27*(7), 1470-1484, doi: <https://doi.org/10.1111/gcb.15490>.
- Mulet, S., H. Etienne, M. Ballarotta, Y. Faugere, M. H. Rio, G. Dibarboure, and N. Picot (2021), Synergy between surface drifters and altimetry to increase the accuracy of sea level anomaly and geostrophic current maps in the Gulf of Mexico, *Advances in Space Research*, *68*(2), 420-431, doi: <https://doi.org/10.1016/j.asr.2019.12.024>.
- Mulet, S., et al. (2021), The new CNES-CLS18 global mean dynamic topography, *Ocean Sci.*, *17*(3), 789-808, doi: <https://os.copernicus.org/articles/17/789/2021/>.
- Müller, V., and O. Melnichenko (2021), Meridional Eddy Heat Transport Variability in the Surface Mixed Layer of the Atlantic Ocean, *Journal of Geophysical Research: Oceans*, *126*(12), e2021JC017789, doi: <https://doi.org/10.1029/2021JC017789>.
- Nagura, M. (2021), Spiciness Anomalies of Subantarctic Mode Water in the South Indian Ocean, *J. Clim.*, *34*(10), 3927-3953, doi: <https://doi.org/10.1175/JCLI-D-20-0482.1>.
- Napolitano, D. C., C. B. Rocha, I. C. A. da Silveira, I. T. Simoes-Sousa, and G. R. Flierl (2021), Can the Intermediate Western Boundary Current recirculation trigger the Vitória Eddy formation?, *Ocean Dyn.*, *71*(3), 281-292, doi: <https://doi.org/10.1007/s10236-020-01437-6>.
- Neokye, E. O., S. Dossou, M. Iniga, and B. N. Alabi-Doku (2021), The role of oceanic environmental conditions on catch of *Sardinella* spp. in Ghana, *Regional Studies in Marine Science*, *44*, 101768, doi: <https://doi.org/10.1016/j.rsma.2021.101768>.
- Nguyen, A. T., H. Pillar, V. Ocaña, A. Bigdeli, T. A. Smith, and P. Heimbach (2021), The Arctic Subpolar Gyre sTate Estimate: Description and Assessment of a Data-Constrained, Dynamically Consistent Ocean-Sea Ice Estimate for 2002–2017, *Journal of Advances in Modeling Earth Systems*, *13*(5), e2020MS002398, doi: <https://doi.org/10.1029/2020MS002398>.
- Ni, Q., X. Zhai, X. Jiang, and D. Chen (2021), Abundant Cold Anticyclonic Eddies and Warm Cyclonic Eddies in the Global Ocean, *J. Phys. Oceanogr.*, *51*(9), 2793-2806, doi: <https://doi.org/10.1175/JPO-D-21-0010.1>.
- Nowitzki, H., M. Rhein, A. Roessler, D. Kieke, and C. Mertens (2021), Trends and Transport Variability of the Circulation in the Subpolar Eastern North Atlantic, *Journal of Geophysical Research: Oceans*, *126*(2), e2020JC016693, doi: <https://doi.org/10.1029/2020JC016693>.
- Nyadjro, E. S. (2021), Impacts of the 2019 Strong IOD and Monsoon Events on Indian Ocean Sea Surface Salinity, *Remote Sensing in Earth Systems Sciences*, *4*(3), 158-171, doi: <https://doi.org/10.1007/s41976-021-00054-1>.
- O’Kane, T. J., P. A. Sandery, V. Kitsios, P. Sakov, M. A. Chamberlain, D. T. Squire, M. A. Collier, C. C. Chapman, R. Fiedler, and D. Harries (2021), CAFE60v1: A 60-year large ensemble climate reanalysis. Part II: Evaluation, *J. Clim.*, *34*(13), 5171-5194, doi: <https://doi.org/10.1175/JCLI-D-20-0518.1>.
- Oginni, T. E., S. Li, H. He, H. Yang, and Z. Ling (2021), Ocean Response to Super-Typhoon Haiyan, *Water*, *13*(20), doi: <https://doi.org/10.3390/w13202841>.

- Oka, E., H. Nishikawa, S. Sugimoto, B. Qiu, and N. Schneider (2021), Subtropical Mode Water in a recent persisting Kuroshio large-meander period: part I—formation and advection over the entire distribution region, *J. Oceanogr.*, *77*, 781–795, doi: <https://doi.org/10.1007/s10872-021-00608-3>.
- Oke, P. R., M. A. Chamberlain, R. A. S. Fiedler, H. Bastos de Oliveira, H. M. Beggs, and G. B. Brassington (2021), Combining Argo and Satellite Data Using Model-Derived Covariances: Blue Maps, *Frontiers in Earth Science*, *9*(485), doi: <https://doi.org/10.3389/feart.2021.696985>.
- Olivé Abelló, A., J. L. Pelegrí, F. J. Machín, and I. Vallès-Casanova (2021), The Transfer of Antarctic Circumpolar Waters to the Western South Atlantic Ocean, *Journal of Geophysical Research: Oceans*, *126*(7), e2020JC017025, doi: <https://doi.org/10.1029/2020JC017025>.
- Olmedo, E., C. González-Haro, N. Hoareau, M. Umbert, V. González-Gambau, J. Martínez, C. Gabarró, and A. Turiel (2021), Nine years of SMOS sea surface salinity global maps at the Barcelona Expert Center, *Earth Syst. Sci. Data*, *13*(2), 857–888, doi: <https://doi.org/10.5194/essd-13-857-2021>.
- Organelli, E., E. Leymarie, O. Zielinski, J. Uitz, F. D'Ortenzio, and H. Claustre (2021), Hyperspectral radiometry on Biogeochemical-Argo floats: A bright perspective for phytoplankton diversity, *Frontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards*. E.S. Kappel, S.K. Juniper, S. Seeyave, E. Smith, and M. Visbeck, eds, *A Supplement to Oceanography*, *34*(4), doi: <https://doi.org/10.5670/oceanog.2021.supplement.02-33>.
- Ouyang, Y., Y. Zhang, J. Chi, Q. Sun, and Y. Du (2021), Regional difference of sea surface salinity variations in the western tropical pacific, *J. Oceanogr.*, *77*(4), 647–657, doi: <https://doi.org/10.1007/s10872-021-00598-2>.
- Painter, S. C., B. Sekadende, A. Michael, M. Noyon, S. Shayo, B. Godfrey, M. Mwadini, and M. Kyewalyanga (2021), Evidence of localised upwelling in Pemba Channel (Tanzania) during the southeast monsoon, *Ocean & Coastal Management*, *200*, 105462, doi: <https://doi.org/10.1016/j.ocecoaman.2020.105462>.
- Palazov, A., and V. Slabakova (2021), Black Sea ARGO, *Oceanographic Journal (Problems, methods and facilities for researches of the World Ocean)*(3(14)), 50–59, doi: [https://doi.org/10.37629/2709-3972.3\(14\).2021.50-59](https://doi.org/10.37629/2709-3972.3(14).2021.50-59).
- Pan, Q., X. Zhu, L. Wan, Y. Li, X. Kuang, J. Liu, and H. Yu (2021), Operational forecasting for Sanchi oil spill, *Applied Ocean Research*, *108*, 102548, doi: <https://doi.org/10.1016/j.apor.2021.102548>.
- Patara, L., C. W. Böning, and T. Tanhua (2021), Multidecadal Changes in Southern Ocean Ventilation since the 1960s Driven by Wind and Buoyancy Forcing, *J. Clim.*, *34*(4), 1485–1502, doi: <https://doi.org/10.1175/JCLI-D-19-0947.1>.
- Patrizio, C. R., and D. W. J. Thompson (2021), Quantifying the Role of Ocean Dynamics in Ocean Mixed Layer Temperature Variability, *J. Clim.*, *34*(7), 2567–2589, doi: <https://doi.org/10.1175/JCLI-D-20-0476.1>.
- Paul, N., J. Sukhatme, D. Sengupta, and B. Gayen (2021), Eddy Induced Trapping and Homogenization of Freshwater in the Bay of Bengal, *Journal of Geophysical Research: Oceans*, *126*(6), e2021JC017180, doi: <https://doi.org/10.1029/2021JC017180>.

- Pauthenet, E., J.-B. Sallée, S. Schmidtko, and D. Nerini (2021), Seasonal Variation of the Antarctic Slope Front Occurrence and Position Estimated from an Interpolated Hydrographic Climatology, *J. Phys. Oceanogr.*, *51*(5), 1539-1557, doi: <https://doi.org/10.1175/JPO-D-20-0186.1>.
- Pegler, S. S., and D. J. Ferguson (2021), Rapid heat discharge during deep-sea eruptions generates megaplumes and disperses tephra, *Nature Communications*, *12*(1), 2292, doi: <https://doi.org/10.1038/s41467-021-22439-y>.
- Pennelly, C., and P. G. Myers (2021), Impact of Different Atmospheric Forcing Sets on Modeling Labrador Sea Water Production, *Journal of Geophysical Research: Oceans*, *126*(2), e2020JC016452, doi: <https://doi.org/10.1029/2020JC016452>.
- Perez, E., S. Ryan, M. Andres, G. Gawarkiewicz, C. C. Ummenhofer, J. Bane, and S. Haines (2021), Understanding physical drivers of the 2015/16 marine heatwaves in the Northwest Atlantic, *Scientific Reports*, *11*(1), 17623, doi: <https://doi.org/10.1038/s41598-021-97012-0>.
- Piontkovski, S. A., I. M. Serikova, V. P. Evstigneev, I. Y. Prusova, Y. A. Zagorodnaya, K. A. Al-Hashmi, and N. M. Al-Abri (2021), Seasonal blooms of the dinoflagellate algae *Noctiluca scintillans*: Regional and global scale aspects, *Regional Studies in Marine Science*, *44*, 101771, doi: <https://doi.org/10.1016/j.rsma.2021.101771>.
- Ponte, R. M., Q. Sun, C. Liu, and X. Liang (2021), How Salty Is the Global Ocean: Weighing It All or Tasting It a Sip at a Time?, *Geophys. Res. Lett.*, *48*(11), e2021GL092935, doi: <https://doi.org/10.1029/2021GL092935>.
- Potter, H., C.-Y. Hsu, and S. F. DiMarco (2021), Rapid dissipation of a Loop Current eddy due to interaction with a severe Gulf of Mexico hurricane, *Ocean Dyn.*, *71*, 911–922, doi: <https://doi.org/10.1007/s10236-021-01471-y>.
- Potter, H., and J. E. Rudzin (2021), Upper-Ocean Temperature Variability in the Gulf of Mexico with Implications for Hurricane Intensity, *J. Phys. Oceanogr.*, *51*(10), 3149-3162, doi: <https://doi.org/10.1175/JPO-D-21-0057.1>.
- Poulain, P.-M., L. Centurioni, T. Özgökmen, D. Tarry, A. Pascual, S. Ruiz, E. Mauri, M. Menna, and G. Notarstefano (2021), On the Structure and Kinematics of an Algerian Eddy in the Southwestern Mediterranean Sea, *Remote Sensing*, *13*(15), 3039, doi: <https://doi.org/10.3390/rs13153039>.
- Pradhan, M., A. Srivastava, S. A. Rao, D. S. Banerjee, A. Chatterjee, P. A. Francis, O. P. Sreejith, M. Das Gupta, and V. S. Prasad (2021), Are ocean-moored buoys redundant for prediction of Indian monsoon?, *Meteorology and Atmospheric Physics*, *133*(4), 1075-1088, doi: <https://doi.org/10.1007/s00703-021-00792-3>.
- Prakash, K. R., T. Nigam, V. Pant, and N. Chandra (2021), On the interaction of mesoscale eddies and a tropical cyclone in the Bay of Bengal, *Nat Hazards*, doi: <https://doi.org/10.1007/s11069-021-04524-z>.
- Pramanik, S., and S. Sil (2021), Assessment of SCATSat-1 Scatterometer Winds on the Upper Ocean Simulations in the North Indian Ocean, *Journal of Geophysical Research: Oceans*, *126*(6), e2020JC016677, doi: <https://doi.org/10.1029/2020JC016677>.
- Prasanth, R., V. Vijith, V. Thushara, J. V. George, and P. N. Vinayachandran (2021), Processes governing the seasonality of vertical chlorophyll-a distribution in the central Arabian Sea: Bio-Argo observations and ecosystem model simulation, *Deep Sea Research*

- Part II: Topical Studies in Oceanography*, 183, 104926, doi:
<https://doi.org/10.1016/j.dsr2.2021.104926>.
- Pryamitsyn, V., B. Petrenko, A. Ignatov, and Y. Kihai (2021), Metop First Generation AVHRR FRAC SST Reanalysis Version 1, *Remote Sensing*, 13(20), doi:
<https://doi.org/10.3390/rs13204046>.
- Pujiana, K., and M. J. McPhaden (2021), Biweekly Mixed Rossby-Gravity Waves in the Equatorial Indian Ocean, *Journal of Geophysical Research: Oceans*, 126(5), e2020JC016840, doi: <https://doi.org/10.1029/2020JC016840>.
- Pun, I.-F., J. A. Knaff, and C. R. Sampson (2021), Uncertainty of Tropical Cyclone Wind Radii on Sea Surface Temperature Cooling, *Journal of Geophysical Research: Atmospheres*, 126(14), e2021JD034857, doi: <https://doi.org/10.1029/2021JD034857>.
- Purba, N. P., W. S. Pranowo, A. B. Ndah, and P. Nanlohy (2021), Seasonal variability of temperature, salinity, and surface currents at 0° latitude section of Indonesia seas, *Regional Studies in Marine Science*, 44, 101772, doi:
<https://doi.org/10.1016/j.rsma.2021.101772>.
- Qi, Y., H. Mao, X. Wang, L. Yu, S. Lian, X. Li, and X. Shang (2021), Suppressed Thermocline Mixing in the Center of Anticyclonic Eddy in the North South China Sea, *Journal of Marine Science and Engineering*, 9(10), doi: <https://doi.org/10.3390/jmse9101149>.
- Qiu, Y., X. Lin, and C. Jing (2021), Recurrence of wintertime SST anomalies in the Bay of Bengal: characteristics and causes, *Climate Dynamics*, doi:
<https://doi.org/10.1007/s00382-021-05693-0>.
- Qiu, Z., Z. Wei, X. Nie, and T. Xu (2021), Southeast Indian Subantarctic Mode Water in the CMIP6 Coupled Models, *Journal of Geophysical Research: Oceans*, 126(7), e2020JC016872, doi: <https://doi.org/10.1029/2020JC016872>.
- Quan, Q., Z. Cai, G. Jin, and Z. Liu (2021), Topographic Rossby Waves in the Abyssal South China Sea, *J. Phys. Oceanogr.*, 51(6), 1795-1812, doi:
<https://doi.org/10.1175/JPO-D-20-0187.1>.
- Quay, P. (2021), Impact of the Elemental Composition of Exported Organic Matter on the Observed Dissolved Nutrient and Trace Element Distributions in the Upper Layer of the Ocean, *Glob. Biogeochem. Cycle*, 35(10), e2020GB006902, doi:
<https://doi.org/10.1029/2020GB006902>.
- Raimondi, L., T. Tanhua, K. Azetsu-Scott, I. Yashayaev, and D. W. R. Wallace (2021), A 30 -Year Time Series of Transient Tracer-Based Estimates of Anthropogenic Carbon in the Central Labrador Sea, *Journal of Geophysical Research: Oceans*, 126(5), e2020JC017092, doi: <https://doi.org/10.1029/2020JC017092>.
- Raju, N. J., M. K. Dash, P. K. Bhaskaran, and P. C. Pandey (2021), Numerical Investigation of Bidirectional Mode-1 and Mode-2 Internal Solitary Wave Generation from North and South of Batti Malv Island, Nicobar Islands, India, *J. Phys. Oceanogr.*, 51(1), 47-62, doi: <https://doi.org/10.1175/JPO-D-19-0182.1>.
- Ranji, Z., and M. Soltanpour (2021), On the effects of Cyclone Ashobaa on sub-inertial oscillations over the Arabian Sea, *Cont. Shelf Res.*, 222, 104435, doi:
<https://doi.org/10.1016/j.csr.2021.104435>.
- Rao, D. R. M., and N. F. Tandon (2021), Mechanism of Interannual Cross-Equatorial Overturning Anomalies in the Pacific Ocean, *Journal of Geophysical Research:*

- Oceans*, 126(10), e2021JC017509, doi: <https://doi.org/10.1029/2021JC017509>.
- Rathore, S., N. L. Bindoff, C. C. Ummenhofer, H. E. Phillips, M. Feng, and M. Mishra (2021), Improving Australian Rainfall Prediction Using Sea Surface Salinity, *J. Clim.*, 34(7), 2473-2490, doi: <https://doi.org/10.1175/JCLI-D-20-0625.1>.
- Rayson, M. D., N. L. Jones, G. N. Ivey, and Y. Gong (2021), A Seasonal Harmonic Model for Internal Tide Amplitude Prediction, *Journal of Geophysical Research: Oceans*, 126(10), e2021JC017570, doi: <https://doi.org/10.1029/2021JC017570>.
- Ren, A. S., and D. L. Rudnick (2021), Temperature and salinity extremes from 2014-2019 in the California Current System and its source waters, *Communications Earth & Environment*, 2(1), 62, doi: <https://doi.org/10.1038/s43247-021-00131-9>.
- Reul, N., B. Chapron, S. A. Grodsky, S. Guimbard, V. Kudryavtsev, G. R. Foltz, and K. Balaguru (2021), Satellite Observations of the Sea Surface Salinity Response to Tropical Cyclones, *Geophys. Res. Lett.*, 48(1), e2020GL091478, doi: <https://doi.org/10.1029/2020GL091478>.
- Ricour, F., A. Capet, F. D'Ortenzio, B. Delille, and M. Grégoire (2021), Dynamics of the deep chlorophyll maximum in the Black Sea as depicted by BGC-Argo floats, *Biogeosciences*, 18(2), 755-774, doi: <https://doi.org/10.5194/bg-18-755-2021>.
- Roch, M., P. Brandt, S. Schmidtko, F. Vaz Velho, and M. Ostrowski (2021), Southeastern Tropical Atlantic Changing From Subtropical to Tropical Conditions, *Frontiers in Marine Science*, 8(1733), doi: <https://doi.org/10.3389/fmars.2021.748383>.
- Roemmich, D., et al. (2021), The technological, scientific, and sociological revolution of global subsurface ocean observing, *Frontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards*. E.S. Kappel, S.K. Juniper, S. Seeyave, E. Smith, and M. Visbeck, eds, *A Supplement to Oceanography*, 34(4), 2-8, doi: <https://doi.org/10.5670/oceanog.2021.supplement.02-02>.
- Rogachev, K., and N. Shlyk (2021), Record-breaking warming in the Kamchatka Current halocline, *Ocean Dyn.*, 71(5), 545-557, doi: <https://doi.org/10.1007/s10236-021-01445-0>.
- Romero, E., L. Tenorio-Fernandez, I. Castro, and M. Castro (2021), Filtering method based on cluster analysis to avoid salinity drifts and recover Argo data in less time, *Ocean Sci.*, 17(5), 1273-1284, doi: <https://doi.org/10.5194/os-17-1273-2021>.
- Rousselet, L., P. Cessi, and G. Forget (2021), Coupling of the mid-depth and abyssal components of the global overturning circulation according to a state estimate, *Science Advances*, 7(21), eabf5478, doi: <http://dx.doi.org/10.1126/sciadv.abf5478>.
- Rudnick, D. L., W. B. Owens, T. M. S. Johnston, K. B. Karnauskas, J. Jakoboski, and R. E. Todd (2021), The Equatorial Current System West of the Galápagos Islands during the 2014–16 El Niño as Observed by Underwater Gliders, *J. Phys. Oceanogr.*, 51(1), 3-17, doi: <https://doi.org/10.1175/JPO-D-20-0064.1>.
- Rühs, S., E. C. J. Oliver, A. Biastoch, C. W. Böning, M. Dowd, K. Getzlaff, T. Martin, and P. G. Myers (2021), Changing Spatial Patterns of Deep Convection in the Subpolar North Atlantic, *Journal of Geophysical Research: Oceans*, 126(7), e2021JC017245, doi: <https://doi.org/10.1029/2021JC017245>.
- Ryan, S., C. C. Ummenhofer, G. Gawarkiewicz, P. Wagner, M. Scheinert, A. Biastoch, and C. W. Böning (2021), Depth Structure of Ningaloo Niño/Niña Events and Associated

- Drivers, *J. Clim.*, 34(5), 1767-1788, doi: <https://doi.org/10.1175/JCLI-D-19-1020.1>.
- Rydbeck, A. V., T. G. Jensen, and M. K. Flatau (2021), Reciprocity in the Indian Ocean: Intraseasonal Oscillation and Ocean Planetary Waves, *Journal of Geophysical Research: Oceans*, 126(9), e2021JC017546, doi: <https://doi.org/10.1029/2021JC017546>.
- Rypina, I. I., T. R. Getscher, L. J. Pratt, and B. Mourre (2021), Observing and quantifying ocean flow properties using drifters with drogues at different depths, *J. Phys. Oceanogr.*, doi: <https://doi.org/10.1175/JPO-D-20-0291.1>.
- Sabu, P., M. P. Subeesh, J. V. George, N. P. Anilkumar, and M. Ravichandran (2021), Enhanced subsurface mixing due to near-inertial waves: observation from Seychelles-Chagos Thermocline Ridge, *Ocean Dyn.*, doi: <https://doi.org/10.1007/s10236-020-01430-z>.
- Saha, A., N. Serra, and D. Stammer (2021), Growth and Decay of Northwestern Tropical Atlantic Barrier Layers, *Journal of Geophysical Research: Oceans*, 126(5), e2020JC016956, doi: <https://doi.org/10.1029/2020JC016956>.
- Sallée, J.-B., V. Pellichero, C. Akhoudas, E. Pauthenet, L. Vignes, S. Schmidtko, A. N. Garabato, P. Sutherland, and M. Kususela (2021), Summertime increases in upper-ocean stratification and mixed-layer depth, *Nature*, 591(7851), 592-598, doi: <https://doi.org/10.1038/s41586-021-03303-x>.
- Samanta, D., N. F. Goodkin, and K. B. Karnauskas (2021), Volume and Heat Transport in the South China Sea and Maritime Continent at Present and the End of the 21st Century, *Journal of Geophysical Research: Oceans*, 126(9), e2020JC016901, doi: <https://doi.org/10.1029/2020JC016901>.
- Santalices, D., S. Briz, A. J. de Castro, and F. López (2021), Bi-Spectral Infrared Algorithm for Cloud Coverage over Oceans by the JEM-EUSO Mission Program, *Sensors*, 21(19), doi: <https://doi.org/10.3390/s21196506>.
- Santana-Cisneros, M. L., P.-L. Ardisson, Á. F. González, I. Mariño-Tapia, M. Cahuich-López, L. E. Ángeles-González, U. Ordoñez-López, and I. Velázquez-Abunader (2021), Dispersal modeling of octopoda paralarvae in the Gulf of Mexico, *Fish Oceanogr.*, 30(6), 726-739, doi: <https://doi.org/10.1111/fog.12555>.
- Saraçoğlu, F. A., B. Aydoğan, B. Ayat, and K. E. Saraçoğlu (2021), Spatial and Seasonal Variability of Long-Term Sea Surface Temperature Trends in Aegean and Levantine Basins, *Pure and Applied Geophysics*, 178(9), 3769-3791, doi: <https://doi.org/10.1007/s00024-021-02856-2>.
- Schindelegger, M., A. A. Harker, R. M. Ponte, H. Dobslaw, and D. A. Salstein (2021), Convergence of Daily GRACE Solutions and Models of Submonthly Ocean Bottom Pressure Variability, *Journal of Geophysical Research: Oceans*, 126(2), e2020JC017031, doi: <https://doi.org/10.1029/2020JC017031>.
- Schine, C. M. S., A.-C. Alderkamp, G. van Dijken, L. J. A. Gerringa, S. Sergi, P. Laan, H. van Haren, W. H. van de Poll, and K. R. Arrigo (2021), Massive Southern Ocean phytoplankton bloom fed by iron of possible hydrothermal origin, *Nature Communications*, 12(1), 1211, doi: <https://doi.org/10.1038/s41467-021-21339-5>.
- Schloesser, F., P. R. Thompson, and C. G. Piecuch (2021), Meridional Asymmetry in Recent Decadal Sea-Level Trends in the Subtropical Pacific Ocean, *Geophys. Res. Lett.*, 48(6),

- e2020GL091959, doi: <https://doi.org/10.1029/2020GL091959>.
- Seelanki, V., T. Nigam, and V. Pant (2021), Upper-ocean physical and biological features associated with Hudhud cyclone: A bio-physical modelling study, *J. Mar. Syst.*, 215, 103499, doi: <https://doi.org/10.1016/j.jmarsys.2020.103499>.
- Semmler, T., J. Jungclaus, C. Danek, H. F. Goessling, N. V. Koldunov, T. Rackow, and D. Sidorenko (2021), Ocean Model Formulation Influences Transient Climate Response, *Journal of Geophysical Research: Oceans*, 126(12), e2021JC017633, doi: <https://doi.org/10.1029/2021JC017633>.
- Shapiro, G. I., J. M. Gonzalez-Ondina, and V. N. Belokopytov (2021), High-resolution stochastic downscaling method for ocean forecasting models and its application to the Red Sea dynamics, *Ocean Sci.*, 17(4), 891-907, doi: <https://os.copernicus.org/articles/17/891/2021/>.
- Shen, H., L. Li, J. Li, Z. He, and Y. Xia (2021), The Seasonal Variation of the Anomalously High Salinity at Subsurface Salinity Maximum in Northern South China Sea from Argo Data, *Journal of Marine Science and Engineering*, 9(2), doi: <https://doi.org/10.3390/jmse9020227>.
- Shi, J.-R., L. D. Talley, S.-P. Xie, Q. Peng, and W. Liu (2021), Ocean warming and accelerating Southern Ocean zonal flow, *Nature Climate Change*, 11(12), 1090-1097, doi: <https://doi.org/10.1038/s41558-021-01212-5>.
- Shi, X., Z. Wang, and H. Huang (2021), Physical oceanography of the Caroline M4 seamount in the tropical western Pacific Ocean in summer 2017, *Journal of Oceanology and Limnology*, 39(5), 1634-1650, doi: <https://doi.org/10.1007/s00343-021-0359-8>.
- Sil, S., A. Gangopadhyay, G. Gawarkiewicz, and S. Pramanik (2021), Shifting seasonality of cyclones and western boundary current interactions in Bay of Bengal as observed during Amphan and Fani, *Scientific Reports*, 11(1), 22052, doi: <https://doi.org/10.1038/s41598-021-01607-6>.
- Skákala, J., et al. (2021), Towards a Multi-Platform Assimilative System for North Sea Biogeochemistry, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016649, doi: <https://doi.org/10.1029/2020JC016649>.
- Small, R. J., A. K. DuVivier, D. B. Whitt, M. C. Long, I. Grooms, and W. G. Large (2021), On the control of subantarctic stratification by the ocean circulation, *Climate Dynamics*, 56(1), 299-327, doi: <https://doi.org/10.1007/s00382-020-05473-2>.
- Smith, A. J. R., L. Ratnarajah, T. M. Holmes, K. Wuttig, A. T. Townsend, K. Westwood, M. Cox, E. Bell, S. Nicol, and D. Lannuzel (2021), Circumpolar Deep Water and Shelf Sediments Support Late Summer Microbial Iron Remineralization, *Glob. Biogeochem. Cycle*, 35(11), e2020GB006921, doi: <https://doi.org/10.1029/2020GB006921>.
- Smith, G. C., et al. (2021), The Regional Ice Ocean Prediction System v2: a pan-Canadian ocean analysis system using an online tidal harmonic analysis, *Geosci. Model Dev.*, 14(3), 1445-1467, doi: <https://doi.org/10.5194/gmd-14-1445-2021>.
- Sohail, T., D. B. Irving, J. D. Zika, R. M. Holmes, and J. A. Church (2021), Fifty Year Trends in Global Ocean Heat Content Traced to Surface Heat Fluxes in the Sub-Polar Ocean, *Geophys. Res. Lett.*, 48(8), e2020GL091439, doi: <https://doi.org/10.1029/2020GL091439>.
- Song, H.-J., and J.-Y. Park (2021), Bottom-Up Drivers for Global Fish Catch Assessed with

- Reconstructed Ocean Biogeochemistry from an Earth System Model, *Climate*, 9(5), doi: <https://doi.org/10.3390/cli9050083>.
- Sotillo, M. G., F. Campuzano, K. Guihou, P. Lorente, E. Olmedo, A. Matulka, F. Santos, M. A. Amo-Baladrón, and A. Novellino (2021), River Freshwater Contribution in Operational Ocean Models along the European Atlantic Façade: Impact of a New River Discharge Forcing Data on the CMEMS IBI Regional Model Solution, *Journal of Marine Science and Engineering*, 9(4), doi: <https://doi.org/10.3390/jmse9040401>.
- Stammer, D., M. S. Martins, J. Köhler, and A. Köhl (2021), How well do we know ocean salinity and its changes?, *Prog. Oceanogr.*, 190, 102478, doi: <https://doi.org/10.1016/j.pocean.2020.102478>.
- Stanev, E. V., and B. Chtirkova (2021), Interannual Change in Mode Waters: Case of the Black Sea, *Journal of Geophysical Research: Oceans*, 126(2), e2020JC016429, doi: <https://doi.org/10.1029/2020JC016429>.
- Stanev, E. V., B. Chtirkova, and E. Peneva (2021), Geothermal Convection and Double Diffusion Based on Profiling Floats in the Black Sea, *Geophys. Res. Lett.*, 48(2), 2020GL091788, doi: <https://doi.org/10.1029/2020GL091788>.
- Stegner, A., B. Le Vu, F. Dumas, M. A. Ghannami, A. Nicolle, C. Durand, and Y. Faugere (2021), Cyclone-Anticyclone Asymmetry of Eddy Detection on Gridded Altimetry Product in the Mediterranean Sea, *Journal of Geophysical Research: Oceans*, 126(9), e2021JC017475, doi: <https://doi.org/10.1029/2021JC017475>.
- Su, H., T. Qin, A. Wang, and W. Lu (2021), Reconstructing Ocean Heat Content for Revisiting Global Ocean Warming from Remote Sensing Perspectives, *Remote Sensing*, 13(19), doi: <https://doi.org/10.3390/rs13193799>.
- Su, H., A. Wang, T. Zhang, T. Qin, X. Du, and X.-H. Yan (2021), Super-resolution of subsurface temperature field from remote sensing observations based on machine learning, *International Journal of Applied Earth Observation and Geoinformation*, 102, 102440, doi: <https://doi.org/10.1016/j.jag.2021.102440>.
- Su, H., T. Zhang, M. Lin, W. Lu, and X.-H. Yan (2021), Predicting subsurface thermohaline structure from remote sensing data based on long short-term memory neural networks, *Remote Sens. Environ.*, 260, 112465, doi: <https://doi.org/10.1016/j.rse.2021.112465>.
- Su, J., P. G. Strutton, and C. Schallenberg (2021), The subsurface biological structure of Southern Ocean eddies revealed by BGC-Argo floats, *J. Mar. Syst.*, 220, 103569, doi: <https://doi.org/10.1016/j.jmarsys.2021.103569>.
- Sun, J., G. Vecchi, and B. Soden (2021), Sea Surface Salinity Response to Tropical Cyclones Based on Satellite Observations, *Remote Sensing*, 13(3), doi: <https://doi.org/10.3390/rs13030420>.
- Sun, J., G. A. Vecchi, and B. J. Soden (2021), Influence of Vertical Wind Shear on the Ocean Response to Tropical Cyclones Based on Satellite Observations, *Geophys. Res. Lett.*, 48(20), e2021GL095451, doi: <https://doi.org/10.1029/2021GL095451>.
- Sun, Z., W. Shao, W. Wang, W. Zhou, W. Yu, and W. Shen (2021), Analysis of Wave-Induced Stokes Transport Effects on Sea Surface Temperature Simulations in the Western Pacific Ocean, *Journal of Marine Science and Engineering*, 9(8), doi: <https://doi.org/10.3390/jmse9080834>.

- Sutton, A. J., N. L. Williams, and B. Tilbrook (2021), Constraining Southern Ocean CO₂ Flux Uncertainty Using Uncrewed Surface Vehicle Observations, *Geophys. Res. Lett.*, 48(3), e2020GL091748, doi: <https://doi.org/10.1029/2020GL091748>.
- Swierczek, S., M. R. Mazloff, M. Morzfeld, and J. L. Russell (2021), The Effect of Resolution on Vertical Heat and Carbon Transports in a Regional Ocean Circulation Model of the Argentine Basin, *Journal of Geophysical Research: Oceans*, 126(7), e2021JC017235, doi: <https://doi.org/10.1029/2021JC017235>.
- Takahashi, N., T. Hayasaka, B. Qiu, and R. Yamaguchi (2021), Observed response of marine boundary layer cloud to the interannual variations of summertime Oyashio extension SST front, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-021-05649-4>.
- Takahashi, N., K. J. Richards, N. Schneider, H. Annamalai, W.-C. Hsu, and M. Nonaka (2021), Formation Mechanism of Warm SST Anomalies in 2010s Around Hawaii, *Journal of Geophysical Research: Oceans*, 126(11), e2021JC017763, doi: <https://doi.org/10.1029/2021JC017763>.
- Tall, A. W., E. Machu, V. Echevin, X. Capet, A. Pietri, K. Corr ea, S. M. Sall, and A. Lazar (2021), Variability of Dissolved Oxygen in the Bottom Layer of the Southern Senegalese Shelf, *Journal of Geophysical Research: Oceans*, 126(5), e2020JC016854, doi: <https://doi.org/10.1029/2020JC016854>.
- Tamsitt, V., et al. (2021), Southern Ocean in Antarctica and the Southern Ocean, *Bull. Amer. Meteorol. Soc.*, 102(8), S317-S356, doi: <https://doi.org/10.1175/BAMS-D-21-0081.1>.
- Tang, W., et al. (2021), Widespread phytoplankton blooms triggered by 2019–2020 Australian wildfires, *Nature*, 597(7876), 370-375, doi: <https://doi.org/10.1038/s41586-021-03805-8>.
- Teruzzi, A., G. Bolzon, L. Feudale, and G. Cossarini (2021), Deep chlorophyll maximum and nutricline in the Mediterranean Sea: emerging properties from a multi-platform assimilated biogeochemical model experiment, *Biogeosciences*, 18(23), 6147-6166, doi: <https://doi.org/10.5194/bg-18-6147-2021>.
- Terzi c, E., A. Mir o, E. Organelli, P. Kowalczuk, F. D'Ortenzio, and P. Lazzari (2021), Radiative Transfer Modeling With Biogeochemical-Argo Float Data in the Mediterranean Sea, *Journal of Geophysical Research: Oceans*, 126(10), e2021JC017690, doi: <https://doi.org/10.1029/2021JC017690>.
- Terzi c, E., S. Salon, G. Cossarini, C. Solidoro, A. Teruzzi, A. Mir o, and P. Lazzari (2021), Impact of interannually variable diffuse attenuation coefficients for downwelling irradiance on biogeochemical modelling, *Ocean Model.*, 161, 101793, doi: <https://doi.org/10.1016/j.ocemod.2021.101793>.
- Thompson, P. R., et al. (2021), Sea level variability and change in Global Oceans, *Bull. Am. Meteorol. Soc.*, 102(8), doi: <https://doi.org/10.1175/BAMS-D-21-0083.1>.
- Thoppil, P. G., et al. (2021), Ensemble forecasting greatly expands the prediction horizon for ocean mesoscale variability, *Communications Earth & Environment*, 2(1), 89, doi: <https://doi.org/10.1038/s43247-021-00151-5>.
- Tian, F., Q. Mao, Y. Zhang, and G. Chen (2021), i4Ocean: transfer function-based interactive visualization of ocean temperature and salinity volume data, *International Journal of Digital Earth*, 1-23, doi: <https://doi.org/10.1080/17538947.2021.1886355>.

- Torrado, H., B. Mourre, N. Raventos, C. Carreras, J. Tintoré, M. Pascual, and E. Macpherson (2021), Impact of individual early life traits in larval dispersal: A multispecies approach using backtracking models, *Prog. Oceanogr.*, *192*, 102518, doi: <https://doi.org/10.1016/j.pocean.2021.102518>.
- Toyoda, T., N. Kimura, L. S. Urakawa, H. Tsujino, H. Nakano, K. Sakamoto, G. Yamanaka, K. K. Komatsu, Y. Matsumura, and Y. Kawaguchi (2021), Improved representation of Arctic sea ice velocity field in ocean–sea ice models based on satellite observations, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-021-05843-4>.
- Toyoda, T., H. Nakano, H. Aiki, T. Ogata, Y. Fukutomi, Y. Kanno, L. S. Urakawa, K. Sakamoto, G. Yamanaka, and M. Nagura (2021), Energy flow diagnosis of ENSO from an ocean reanalysis, *J. Clim.*, *34*(10), 4023-4042, doi: <https://doi.org/10.1175/JCLI-D-20-0704.1>.
- Trewin, B., A. Cazenave, S. Howell, M. Huss, K. Isensee, M. D. Palmer, O. Tarasova, and A. Vermeulen (2021), Headline Indicators for Global Climate Monitoring, *Bull. Amer. Meteorol. Soc.*, *102*(1), E20-E37, doi: <https://journals.ametsoc.org/view/journals/bams/102/1/BAMS-D-19-0196.1.xml>.
- Trott, C. B., B. Subrahmanyam, and C. E. Washburn (2021), Investigating the Response of Temperature and Salinity in the Agulhas Current Region to ENSO Events, *Remote Sensing*, *13*(9), doi: <https://doi.org/10.3390/rs13091829>.
- Tseng, K.-C., et al. (2021), Are Multiseasonal Forecasts of Atmospheric Rivers Possible?, *Geophys. Res. Lett.*, *48*(17), e2021GL094000, doi: <https://doi.org/10.1029/2021GL094000>.
- Udaya Bhaskar, T. V. S., V. V. S. S. Sarma, and J. Pavan Kumar (2021), Potential Mechanisms Responsible for Spatial Variability in Intensity and Thickness of Oxygen Minimum Zone in the Bay of Bengal, *Journal of Geophysical Research: Biogeosciences*, *126*(6), e2021JG006341, doi: <https://doi.org/10.1029/2021JG006341>.
- Ulses, C., C. Estournel, M. Fourier, L. Coppola, F. Kessouri, D. Lefèvre, and P. Marsaleix (2021), Oxygen budget of the north-western Mediterranean deep- convection region, *Biogeosciences*, *18*(3), 937-960, doi: <https://doi.org/10.5194/bg-18-937-2021>.
- Valsala, V., M. G. Sreeush, M. Anju, P. Sreenivas, Y. K. Tiwari, K. Chakraborty, and S. Sijikumar (2021), An observing system simulation experiment for Indian Ocean surface pCO₂ measurements, *Prog. Oceanogr.*, *194*, 102570, doi: <https://doi.org/10.1016/j.pocean.2021.102570>.
- van der Boog, C. G., H. A. Dijkstra, J. D. Pietrzak, and C. A. Katsman (2021), Double-diffusive mixing makes a small contribution to the global ocean circulation, *Communications Earth & Environment*, *2*(1), 46, doi: <https://doi.org/10.1038/s43247-021-00113-x>.
- van der Boog, C. G., J. O. Koetsier, H. A. Dijkstra, J. D. Pietrzak, and C. A. Katsman (2021), Global dataset of thermohaline staircases obtained from Argo floats and Ice-Tethered Profilers, *Earth Syst. Sci. Data*, *13*(1), 43-61, doi: <https://doi.org/10.5194/essd-13-43-2021>.
- Vazquez, R., I. Parras-Berrocal, W. Cabos, D. V. Sein, R. Mañanes, and A. Izquierdo (2021), Assessment of the Canary current upwelling system in a regionally coupled climate model, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-021-05890-x>.
- Vélez-Belchí, P., V. Caínzos, E. Romero, M. Casanova-Masjoan, C. Arumí-Planas, D. Santana-Toscano, A. González-Santana, M. D. Pérez-Hernández, and A.

- Hernández-Guerra (2021), The Canary Intermediate Poleward Undercurrent: Not Another Poleward Undercurrent in an Eastern Boundary Upwelling System, *J. Phys. Oceanogr.*, 51(9), 2973-2990, doi: <https://doi.org/10.1175/JPO-D-20-0130.1>.
- Verezemskaya, P., B. Barnier, S. K. Gulev, S. Gladyshev, J.-M. Molines, V. Gladyshev, J.-M. Lellouche, and A. Gavrikov (2021), Assessing Eddying (1/12°) Ocean Reanalysis GLORYS12 Using the 14-yr Instrumental Record From 59.5°N Section in the Atlantic, *Journal of Geophysical Research: Oceans*, 126(6), e2020JC016317, doi: <https://doi.org/10.1029/2020JC016317>.
- Vidya, P. J., M. Balaji, and R. Mani Murali (2021), Cyclone Hudhud-eddy induced phytoplankton bloom in the northern Bay of Bengal using a coupled model, *Prog. Oceanogr.*, 197, 102631, doi: <https://doi.org/10.1016/j.pocean.2021.102631>.
- Vijay, A., K. Munnooru, G. Reghu, A. Gera, R. R. Vinjamuri, and M. V. Ramanamurthy (2021), Nutrient dynamics and budgeting in a semi-enclosed coastal hypersaline lagoon, *Environmental Science and Pollution Research*, doi: <https://doi.org/10.1007/s11356-021-15334-y>.
- Vissa, N. K., P. C. Anandh, V. S. Gulakaram, and G. Konda (2021), Role and response of ocean-atmosphere interactions during Amphan (2020) super cyclone, *Acta Geophysica*, 69(5), 1997-2010, doi: <https://doi.org/10.1007/s11600-021-00671-w>.
- Volkov, D., et al. (2021), Meridional overturning circulation and heat transport in the Atlantic Ocean in Global Oceans in the State of the Climate in 2020, *Bull. Am. Meteorol. Soc.*, 102(8), doi: <https://doi.org/10.1175/BAMS-D-21-0083.1>.
- von Oppeln-Bronikowski, N., M. Zhou, T. Bahadory, and B. de Young (2021), Overview of a new Ocean Glider Navigation System: OceanGNS, *Frontiers in Marine Science*, 8, doi: <https://doi.org/10.3389/fmars.2021.671103>.
- von Schuckmann, K., et al. (2021), Copernicus Marine Service Ocean State Report, Issue 5, *J. Oper. Oceanogr.*, 14(sup1), 1-185, doi: <https://doi.org/10.1080/1755876X.2021.1946240>.
- Vose, R. S., B. Huang, X. Yin, D. Arndt, D. R. Easterling, J. H. Lawrimore, M. J. Menne, A. Sanchez-Lugo, and H. M. Zhang (2021), Implementing Full Spatial Coverage in NOAA's Global Temperature Analysis, *Geophys. Res. Lett.*, 48(4), e2020GL090873, doi: <https://doi.org/10.1029/2020GL090873>.
- Wang, B., K. Fennel, and L. Yu (2021), Can assimilation of satellite observations improve subsurface biological properties in a numerical model? A case study for the Gulf of Mexico, *Ocean Sci.*, 17(4), 1141-1156, doi: <https://doi.org/10.5194/os-17-1141-2021>.
- Wang, F., Y. Shen, Q. Chen, and Y. Sun (2021), Reduced misclosure of global sea-level budget with updated Tongji-Grace2018 solution, *Scientific Reports*, 11(1), 17667, doi: <https://doi.org/10.1038/s41598-021-96880-w>.
- Wang, H., T. Song, S. Zhu, S. Yang, and L. Feng (2021), Subsurface Temperature Estimation from Sea Surface Data Using Neural Network Models in the Western Pacific Ocean, *Mathematics*, 9(8), doi: <https://doi.org/10.3390/math9080852>.
- Wang, J., J. A. Church, X. Zhang, and X. Chen (2021), Reconciling global mean and regional sea level change in projections and observations, *Nature Communications*, 12(1), 990, doi: <https://doi.org/10.1038/s41467-021-21265-6>.
- Wang, L., K. Lyu, W. Zhuang, W. Zhang, S. Makarim, and X.-H. Yan (2021), Recent Shift in the

- Warming of the Southern Oceans Modulated by Decadal Climate Variability, *Geophys. Res. Lett.*, 48(3), e2020GL090889, doi: <https://doi.org/10.1029/2020GL090889>.
- Wang, Q., C. Dong, J. Li, J. Yang, and Q. Tian (2021), Numerical study of the seasonal salinity budget of the upper ocean in the Bay of Bengal in 2014, *Journal of Oceanology and Limnology*, 39(4), 1169-1187, doi: <https://doi.org/10.1007/s00343-020-0285-1>.
- Wang, Q., X. Yuan, D. Hu, and H. Sasaki (2021), Stronger Intraseasonal Variability Observed Below the Seasonal Thermocline in the Kuroshio East of Taiwan During 2014 and 2015, *Journal of Geophysical Research: Oceans*, 126(7), e2021JC017194, doi: <https://doi.org/10.1029/2021JC017194>.
- Wang, S., and R. Toumi (2021), Recent tropical cyclone changes inferred from ocean surface temperature cold wakes, *Scientific Reports*, 11(1), 22269, doi: <https://doi.org/10.1038/s41598-021-01612-9>.
- Wang, T., F. Chai, X. Xing, J. Ning, W. Jiang, and S. C. Riser (2021), Influence of multi-scale dynamics on the vertical nitrate distribution around the Kuroshio Extension: An investigation based on BGC-Argo and satellite data, *Prog. Oceanogr.*, 193, 102543, doi: <https://doi.org/10.1016/j.pocean.2021.102543>.
- Wang, T., S. Zhang, F. Chen, Y. Ma, C. Jiang, and J. Yu (2021), Influence of sequential tropical cyclones on phytoplankton blooms in the northwestern South China Sea, *Journal of Oceanology and Limnology*, 39(1), 14-25, doi: <https://doi.org/10.1007/s00343-020-9266-7>.
- Wang, X., Y. Du, Y. Zhang, A. Wang, and T. Wang (2021), Influence of Two Eddy Pairs on High-Salinity Water Intrusion in the Northern South China Sea During Fall-Winter 2015/2016, *Journal of Geophysical Research: Oceans*, 126(6), e2020JC016733, doi: <https://doi.org/10.1029/2020JC016733>.
- Wang, X., S. Zhang, X. Lin, B. Qiu, and L. Yu (2021), Characteristics of 3-Dimensional Structure and Heat Budget of Mesoscale Eddies in the South Atlantic Ocean, *Journal of Geophysical Research: Oceans*, 126(5), e2020JC016922, doi: <https://doi.org/10.1029/2020JC016922>.
- Wang, X., J. Zhao, T. Hattermann, L. Lin, and P. Chen (2021), Transports and Accumulations of Greenland Sea Intermediate Waters in the Norwegian Sea, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016582, doi: <https://doi.org/10.1029/2020JC016582>.
- Wang, Y., R. Tang, Y. Yu, and F. Ji (2021), Variability in the Sea Surface Temperature Gradient and Its Impacts on Chlorophyll-a Concentration in the Kuroshio Extension, *Remote Sensing*, 13(5), doi: <https://doi.org/10.3390/rs13050888>.
- Watanabe, T. K., T. Watanabe, M. Pfeiffer, H.-M. Hu, C.-C. Shen, and A. Yamazaki (2021), Corals Reveal an Unprecedented Decrease of Arabian Sea Upwelling During the Current Warming Era, *Geophys. Res. Lett.*, 48(10), e2021GL092432, doi: <https://doi.org/10.1029/2021GL092432>.
- Wilson, C. (2021), Evidence of Episodic Nitrate Injections in the Oligotrophic North Pacific Associated With Surface Chlorophyll Blooms, *Journal of Geophysical Research: Oceans*, 126(11), e2021JC017169, doi: <https://doi.org/10.1029/2021JC017169>.
- Wimart-Rousseau, C., et al. (2021), Seasonal and Interannual Variability of the CO₂ System

- in the Eastern Mediterranean Sea: A Case Study in the North Western Levantine Basin, *Frontiers in Marine Science*, 8, doi: <https://doi.org/10.3389/fmars.2021.649246>.
- Wu, B., X. Lin, and L. Yu (2021), Poleward Shift of the Kuroshio Extension Front and Its Impact on the North Pacific Subtropical Mode Water in the Recent Decades, *J. Phys. Oceanogr.*, 51(2), 457-474, doi: <https://doi.org/10.1175/JPO-D-20-0088.1>.
- Wu, D.-R., Z.-W. Zheng, G. Gopalakrishnan, C.-R. Ho, and Q. Zheng (2021), Barrier Layer Characteristics for Different Temporal Scales and Its Implication to Tropical Cyclone Enhancement in the Western North Pacific, *Sustainability*, 13(6), 3375, doi: <https://doi.org/10.3390/su13063375>.
- Wu, Y., X.-T. Zheng, Q.-W. Sun, Y. Zhang, Y. Du, and L. Liu (2021), Decadal Variability of the Upper-Ocean Salinity in the Southeast Indian Ocean: Role of Local Ocean-Atmosphere Dynamics, *J. Clim.*, 34(19), 7927-7942, doi: <https://doi.org/10.1175/JCLI-D-21-0122.1>.
- Xia, R., Y. He, and T. Yang (2021), Simulation and future projection of the mixed layer depth and subduction process in the subtropical Southeast Pacific, *Acta Oceanol. Sin.*, 40(12), 104-113, doi: <https://doi.org/10.1007/s13131-021-1877-0>.
- Xia, R., B. Li, and C. Chen (2021), Response of the mixed layer depth and subduction rate in the subtropical Northeast Pacific to global warming, *Acta Oceanol. Sin.*, doi: <https://doi.org/10.1007/s13131-021-1818-y>.
- Xing, X., and E. Boss (2021), Chlorophyll-Based Model to Estimate Underwater Photosynthetically Available Radiation for Modeling, In-Situ, and Remote-Sensing Applications, *Geophys. Res. Lett.*, 48(7), e2020GL092189, doi: <https://doi.org/10.1029/2020GL092189>.
- Xing, X., E. Boss, S. Chen, and F. Chai (2021), Seasonal and Daily-Scale Photoacclimation Modulating the Phytoplankton Chlorophyll-Carbon Coupling Relationship in the Mid-Latitude Northwest Pacific, *Journal of Geophysical Research: Oceans*, 126(10), e2021JC017717, doi: <https://doi.org/10.1029/2021JC017717>.
- Xu, A., and X. Chen (2021), A Strong Internal Solitary Wave with Extreme Velocity Captured Northeast of Dong-Sha Atoll in the Northern South China Sea, *Journal of Marine Science and Engineering*, 9(11), doi: <https://doi.org/10.3390/jmse9111277>.
- Xu, L., Y. Ding, and S.-P. Xie (2021), Buoyancy and Wind Driven Changes in Subantarctic Mode Water During 2004-2019, *Geophys. Res. Lett.*, 48(8), e2021GL092511, doi: <https://doi.org/10.1029/2021GL092511>.
- Xu, Y., Y. Wu, H. Wang, Z. Zhang, J. Li, and J. Zhang (2021), Seasonal and interannual variabilities of chlorophyll across the eastern equatorial Indian Ocean and Bay of Bengal, *Prog. Oceanogr.*, 198, 102661, doi: <https://doi.org/10.1016/j.pocean.2021.102661>.
- Yajnik, K. S., and C. K. Devasana (2021), Changing variability of sea surface temperature in the post-WWII era, *Journal of Earth System Science*, 130(3), 144, doi: <https://doi.org/10.1007/s12040-021-01637-8>.
- Yamazaki, K., S. Aoki, K. Katsumata, D. Hirano, and Y. Nakayama (2021), Multidecadal poleward shift of the southern boundary of the Antarctic Circumpolar Current off East Antarctica, *Science Advances*, 7(24), eabf8755, doi: <http://dx.doi.org/10.1126/sciadv.abf8755>.

- Yan, H., H. Wang, R. Zhang, S. Bao, J. Chen, and G. Wang (2021), The Inconsistent Pairs Between In Situ Observations of Near Surface Salinity and Multiple Remotely Sensed Salinity Data, *Earth and Space Science*, 8(5), e2020EA001355, doi: <https://doi.org/10.1029/2020EA001355>.
- Yan, H., R. Zhang, H. Wang, S. Bao, and C. Bai (2021), Practical Dynamical-Statistical Reconstruction of Ocean's Interior from Satellite Observations, *Remote Sensing*, 13(24), doi: <https://doi.org/10.3390/rs13245085>.
- Yang, B. (2021), Seasonal Relationship Between Net Primary and Net Community Production in the Subtropical Gyres: Insights From Satellite and Argo Profiling Float Measurements, *Geophys. Res. Lett.*, 48(17), e2021GL093837, doi: <https://doi.org/10.1029/2021GL093837>.
- Yang, B., J. Fox, M. J. Behrenfeld, E. S. Boss, N. Haëntjens, K. H. Halsey, S. R. Emerson, and S. C. Doney (2021), In Situ Estimates of Net Primary Production in the Western North Atlantic With Argo Profiling Floats, *Journal of Geophysical Research: Biogeosciences*, 126(2), e2020JG006116, doi: <https://doi.org/10.1029/2020JG006116>.
- Yang, C., F. E. Leonelli, S. Marullo, V. Artale, H. Beggs, B. B. Nardelli, T. M. Chin, V. De Toma, S. Good, and B. Huang (2021), Sea Surface Temperature Intercomparison in the Framework of the Copernicus Climate Change Service (C3S), *J. Clim.*, 34(13), 5257-5283, doi: <https://doi.org/10.1175/JCLI-D-20-0793.1>.
- Yang, Y., M. Zhong, W. Feng, and D. Mu (2021), Detecting Regional Deep Ocean Warming below 2000 meter Based on Altimetry, GRACE, Argo, and CTD Data, *Adv. Atmos. Sci.*, doi: <https://doi.org/10.1007/s00376-021-1049-3>.
- Yang, Z., X. Zhai, D. P. Marshall, and G. Wang (2021), An Idealized Model Study of Eddy Energetics in the Western Boundary "Graveyard", *J. Phys. Oceanogr.*, 51(4), 1265-1282, doi: <https://doi.org/10.1175/JPO-D-19-0301.1>.
- Yasunaka, S., H. Mitsudera, F. Whitney, and S.-i. Nakaoka (2021), Nutrient and dissolved inorganic carbon variability in the North Pacific, *J. Oceanogr.*, 77(1), 3-16, doi: <https://doi.org/10.1007/s10872-020-00561-7>.
- Yeager, S., F. Castruccio, P. Chang, G. Danabasoglu, E. Maroon, J. Small, H. Wang, L. Wu, and S. Zhang (2021), An outsized role for the Labrador Sea in the multidecadal variability of the Atlantic overturning circulation, *Science Advances*, 7(41), eabh3592, doi: <https://doi.org/10.1126/sciadv.abh3592>.
- You, J., Z. Xu, Q. Li, R. Robertson, P. Zhang, and B. Yin (2021), Enhanced internal tidal mixing in the Philippine Sea mesoscale environment, *Nonlin. Processes Geophys.*, 28(2), 271-284, doi: <https://doi.org/10.5194/npg-28-271-2021>.
- Yu, F., Z. Wang, S. Liu, and G. Chen (2021), Inversion of the three-dimensional temperature structure of mesoscale eddies in the Northwest Pacific based on deep learning, *Acta Oceanol. Sin.*, 40(10), 176-186, doi: <https://doi.org/10.1007/s13131-021-1841-z>.
- Yu, L., F. M. Bingham, T. Lee, E. P. Dinnat, S. Fournier, O. Melnichenko, W. Tang, and S. H. Yueh (2021), Revisiting the Global Patterns of Seasonal Cycle in Sea Surface Salinity, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016789, doi: <https://doi.org/10.1029/2020JC016789>.
- Yuan, D., P. Chen, Z. Mao, X. Zhang, Z. Zhang, C. Xie, C. Zhong, and Z. Qian (2021), Ocean mixed layer depth estimation using airborne Brillouin scattering lidar: simulation and

- model, *Applied Optics*, 60(36), 11180-11188, doi: <https://doi.org/10.1364/AO.442647>.
- Yuan, D., P. Chen, Z. Mao, and Z. Zhang (2021), Potential of spaceborne Brillouin scattering lidar for global ocean optical profiling, *Opt. Express*, 29(26), 43049-43067, doi: <https://doi.org/10.1364/OE.442376>.
- Yuan, L., F. Tian, S. Xu, C. Zhou, and J. Chen (2021), Three-dimensional mesoscale eddy identification and tracking algorithm based on pressure anomalies, *Journal of Oceanology and Limnology*, doi: <https://doi.org/10.1007/s00343-021-0309-5>.
- Yuan, M., Z. Song, Z. Li, Z. Jing, P. Chang, B. Sun, H. Wang, X. Liu, S. Zhou, and L. Wu (2021), An Improved Parameterization of Wind-Driven Turbulent Vertical Mixing Based on an Eddy-Resolving Climate Model, *Journal of Advances in Modeling Earth Systems*, 13(10), e2021MS002630, doi: <https://doi.org/10.1029/2021MS002630>.
- Yuan, X., Q. Wang, J. Feng, and D. Hu (2021), The North Equatorial Current/Undercurrent volume transport and its 40-day variability from a mooring array along 130°E, *Journal of Oceanology and Limnology*, doi: <https://doi.org/10.1007/s00343-020-0289-x>.
- Zang, N., J. Sprintall, R. Ienny, and F. Wang (2021), Seasonality of the Somali Current/Undercurrent system, *Deep Sea Research Part II: Topical Studies in Oceanography*, 191-192, 104953, doi: <https://doi.org/10.1016/j.dsr2.2021.104953>.
- Zeller, M., S. McGregor, E. van Sebille, A. Capotondi, and P. Spence (2021), Subtropical-tropical pathways of spiciness anomalies and their impact on equatorial Pacific temperature, *Climate Dynamics*, 56(3), 1131-1144, doi: <https://doi.org/10.1007/s00382-020-05524-8>.
- Zeng, L., E. P. Chassignet, X. Xu, and D. Wang (2021), Multi-decadal changes in the South China Sea mixed layer salinity, *Climate Dynamics*, 57(1), 435-449, doi: <https://doi.org/10.1007/s00382-021-05711-1>.
- Zhai, Y., J. Yang, and X. Wan (2021), Cross-Equatorial Anti-Symmetry in the Seasonal Transport of the Western Boundary Current in the Atlantic Ocean, *Journal of Geophysical Research: Oceans*, 126(5), e2021JC017184, doi: <https://doi.org/10.1029/2021JC017184>.
- Zhai, Y., J. Yang, X. Wan, and S. Zou (2021), The Eastern Atlantic Basin Pathway for the Export of the North Atlantic Deep Waters, *Geophys. Res. Lett.*, 48(24), e2021GL095615, doi: <https://doi.org/10.1029/2021GL095615>.
- Zhang, B., F. Li, G. Zheng, Y. Wang, Z. Tan, and X. Li (2021), Developing big ocean system in support of Sustainable Development Goals: challenges and countermeasures, *Big Earth Data*, 5(4), 557-575, doi: <https://doi.org/10.1080/20964471.2021.1965371>.
- Zhang, C., W. Si, and C. Xie (2021), Analysis of T/S characteristics of Sulawesi Sea based on Argo and XBT, *Marine Science Bulletin*, 23(1), 27-36, doi: https://jglobal.jst.go.jp/en/detail?JGLOBAL_ID=202102286903481565.
- Zhang, C.-L., Z.-F. Wang, and Y. Liu (2021), An argo-based experiment providing near-real-time subsurface oceanic environmental information for fishery data, *Fish Oceanogr.*, 30(1), 85-98, doi: <https://doi.org/10.1111/fog.12504>.
- Zhang, H., and A. Ignatov (2021), A Completeness and Complementarity Analysis of the Data Sources in the NOAA In Situ Sea Surface Temperature Quality Monitor (iQuam) System, *Remote Sensing*, 13(18), doi: <https://doi.org/10.3390/rs13183741>.

- Zhang, H., A. Ignatov, and D. Hinshaw (2021), Evaluation of the In Situ Sea Surface Temperature Quality Control in the NOAA In Situ SST Quality Monitor (i Quam) System, *J. Atmos. Ocean. Technol.*, 38(7), 1249-1263, doi: <https://doi.org/10.1175/JTECH-D-20-0203.1>.
- Zhang, H.-R., Y. Wang, P. Xiu, Y. Qi, and F. Chai (2021), Roles of Iron Limitation in Phytoplankton Dynamics in the Western and Eastern Subarctic Pacific, *Frontiers in Marine Science*, 8(1269), doi: <https://doi.org/10.3389/fmars.2021.735826>.
- Zhang, L., X. Zhang, W. Perrie, C. Guan, B. Dan, C. Sun, X. Wu, K. Liu, and D. Li (2021), Impact of Sea Spray and Sea Surface Roughness on the Upper Ocean Response to Super Typhoon Haitang (2005), *J. Phys. Oceanogr.*, 51(6), 1929-1945, doi: <https://doi.org/10.1175/JPO-D-20-0208.1>.
- Zhang, R., and M. Thomas (2021), Horizontal circulation across density surfaces contributes substantially to the long-term mean northern Atlantic Meridional Overturning Circulation, *Communications Earth & Environment*, 2(1), 112, doi: <https://doi.org/10.1038/s43247-021-00182-y>.
- Zhang, S., Z. Yu, X. Gong, Y. Wang, F. Chang, G. Lohmman, Y. Qi, and T. Li (2021), Precession cycles of the El Niño/Southern oscillation-like system controlled by Pacific upper-ocean stratification, *Communications Earth & Environment*, 2(1), 239, doi: <https://doi.org/10.1038/s43247-021-00305-5>.
- Zhang, T., L. Song, H. Yuan, B. Song, and N. Ebango Ngando (2021), A comparative study on habitat models for adult bigeye tuna in the Indian Ocean based on gridded tuna longline fishery data, *Fish Oceanogr.*, 30(5), 584-607, doi: <https://doi.org/10.1111/fog.12539>.
- Zhang, Y., Y. Du, M. Feng, and S. Hu (2021), Long-Lasting Marine Heatwaves Instigated by Ocean Planetary Waves in the Tropical Indian Ocean During 2015–2016 and 2019–2020, *Geophys. Res. Lett.*, 48(21), e2021GL095350, doi: <https://doi.org/10.1029/2021GL095350>.
- Zhang, Y., Y. Du, T. Qu, Y. Hong, C. M. Domingues, and M. Feng (2021), Changes in the Subantarctic Mode Water Properties and Spiciness in the Southern Indian Ocean based on Argo Observations, *J. Phys. Oceanogr.*, 51(7), 2203-2221, doi: <https://doi.org/10.1175/JPO-D-20-0254.1>.
- Zhang, Z., X. Zhang, B. Qiu, W. Zhao, C. Zhou, X. Huang, and J. Tian (2021), Submesoscale Currents in the Subtropical Upper Ocean Observed by Long-Term High-Resolution Mooring Arrays, *J. Phys. Oceanogr.*, 51(1), 187-206, doi: <https://doi.org/10.1175/JPO-D-20-0100.1>.
- Zhang, Z.-L., H. Nakamura, and X.-H. Zhu (2021), Seasonal velocity variations over the entire Kuroshio path part I: data analysis and numerical experiments, *J. Oceanogr.*, 77(5), 719-744, doi: <https://doi.org/10.1007/s10872-021-00604-7>.
- Zhao, D., L. Gao, and Y. Xu (2021), Quantification of the impact of environmental factors on chlorophyll in the open ocean, *Journal of Oceanology and Limnology*, 39(2), 447-457, doi: <https://doi.org/10.1007/s00343-020-9121-x>.
- Zhao, D., Y. Xu, X. Zhang, and C. Huang (2021), Global chlorophyll distribution induced by mesoscale eddies, *Remote Sens. Environ.*, 254, 112245, doi: <https://doi.org/10.1016/j.rse.2020.112245>.

- Zheng, H., C. Zhang, R. Zhao, X.-H. Zhu, Z.-N. Zhu, Z.-J. Liu, and M. Wang (2021), Structure and Variability of Abyssal Current in Northern South China Sea Based on CPIES Observations, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016780, doi: <https://doi.org/10.1029/2020JC016780>.
- Zheng, Y., Y. Du, J. Chi, Y. Zhang, and S.-P. Xie (2021), Rapid changes in northeastern tropical Pacific Ocean surface salinity due to trans-basin moisture transport in recent decades, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-020-05585-9>.
- Zhi, H., P. Lin, Z. Fang, H. Liu, R.-H. Zhang, and W. Bai (2021), Sea surface salinity-derived indexes for distinguishing two types of El Niño events in the tropical Pacific, *Sci. China Earth Sci.*, 64(8), 1267-1284, doi: <https://doi.org/10.1007/s11430-020-9780-2>.
- Zhou, H., H. Liu, S. Tan, W. Yang, Y. Li, X. Liu, Q. Ren, and W. K. Dewar (2021), The Observed North Equatorial Countercurrent in the Far Western Pacific Ocean during the 2014–16 El Niño, *J. Phys. Oceanogr.*, 51(6), 2003-2020, doi: <https://doi.org/10.1175/JPO-D-20-0293.1>.
- Zhou, H., X. Liu, R. Li, Y. Wang, and G. Yang (2021), Intraseasonal Variability of the North Equatorial Current Bifurcation Off the Philippines, *Journal of Geophysical Research: Oceans*, 126(11), e2021JC017646, doi: <https://doi.org/10.1029/2021JC017646>.
- Zhou, W., J. Li, F. Xu, Y. Shu, and Y. Feng (2021), The impact of ocean data assimilation on seasonal predictions based on the National Climate Center climate system model, *Acta Oceanol. Sin.*, 40(5), 58-70, doi: <https://doi.org/10.1007/s13131-021-1732-3>.
- Zhou, Y., R. H. Lang, E. P. Dinnat, and D. M. L. Vine (2021), Seawater Debye Model Function at L-Band and Its Impact on Salinity Retrieval From Aquarius Satellite Data, *IEEE Trans. Geosci. Remote Sensing*, 59(10), 8103-8116, doi: <https://doi.org/10.1109/TGRS.2020.3045771>.
- Zhu, J., et al. (2021), Roles of TAO/TRITON and Argo in Tropical Pacific Observing Systems: An OSSE Study for Multiple Time Scale Variability, *J. Clim.*, 34(16), 6797-6817, doi: <https://doi.org/10.1175/JCLI-D-20-0951.1>.
- Zhu, R., Z. Chen, Z. Zhang, H. Yang, and L. Wu (2021), Subthermocline Eddies in the Kuroshio Extension Region Observed by Mooring Arrays, *J. Phys. Oceanogr.*, 51(2), 439-455, doi: <https://doi.org/10.1175/JPO-D-20-0047.1>.
- Zhu, Y., Y. Li, Z. Zhang, B. Qiu, and F. Wang (2021), The Observed Agulhas Retroflexion Behaviors During 1993–2018, *Journal of Geophysical Research: Oceans*, 126(12), e2021JC017995, doi: <https://doi.org/10.1029/2021JC017995>.
- Zhu, Y., R.-H. Zhang, D. Li, and D. Chen (2021), The Thermocline Biases in the Tropical North Pacific and Their Attributions, *J. Clim.*, 34(5), 1635-1648, doi: <https://doi.org/10.1175/JCLI-D-20-0675.1>.
- Zhu, Z., J. Wang, G. Zhang, S. Liu, S. Zheng, X. Sun, D. Xu, and M. Zhou (2021), Using triple oxygen isotopes and oxygen-argon ratio to quantify ecosystem production in the mixed layer of northern South China Sea slope region, *Acta Oceanol. Sin.*, doi: <https://doi.org/10.1007/s13131-021-1846-7>.
- Zika, J. D., J. M. Gregory, E. L. McDonagh, A. Marzocchi, and L. Clement (2021), Recent water mass changes reveal mechanisms of ocean warming, *J. Clim.*, 34(9), 3461-3479, doi: <https://doi.org/10.1175/JCLI-D-20-0355.1>.

2020 (546)

- Aguiar, E., B. Mourre, M. Juza, E. Reyes, J. Hernández-Lasheras, E. Cutolo, E. Mason, and J. Tintoré, 2020: Multi-platform model assessment in the Western Mediterranean Sea: impact of downscaling on the surface circulation and mesoscale activity. *Ocean Dynamics*, **70**, 273-288, <https://doi.org/10.1007/s10236-019-01317-8>
- Agulles, M., G. Jordà, B. Jones, S. Agustí, and C. M. Duarte, 2020: Temporal evolution of temperatures in the Red Sea and the Gulf of Aden based on in situ observations (1958–2017). *Ocean Sci.*, **16**, 149-166, <https://doi.org/10.5194/os-16-149-2020>
- Akhil, V. P., J. Vialard, M. Lengaigne, M. G. Keerthi, J. Boutin, J. L. Vergely, and F. Papa, 2020: Bay of Bengal Sea surface salinity variability using a decade of improved SMOS re-processing. *Remote Sensing of Environment*, **248**, 111964, <https://doi.org/10.1016/j.rse.2020.111964>
- Albert, J. and P. K. Bhaskaran, 2020: Ocean heat content and its role in tropical cyclogenesis for the Bay of Bengal basin. *Climate Dynamics*, **55**, 3343-3362, <https://doi.org/10.1007/s00382-020-05450-9>
- Alford, M. H., 2020: Global Calculations of Local and Remote Near-Inertial-Wave Dissipation. *Journal of Physical Oceanography*, **50**, 3157-3164, <https://doi.org/10.1175/JPO-D-20-0106.1>
- Alford, M. H., 2020: Revisiting Near-Inertial Wind Work: Slab Models, Relative Stress, and Mixed Layer Deepening. *Journal of Physical Oceanography*, **50**, 3141-3156, <https://doi.org/10.1175/JPO-D-20-0105.1>
- Ali, S. A., Z. Mao, J. Wu, X. Chen, Q. Zhu, H. Huang, F. Gong, and T. Wang, 2020: Satellite Evidence of Upper Ocean Responses to Cyclone Nilofar. *Atmosphere-Ocean*, **58**, 13-24, <https://doi.org/10.1080/07055900.2019.1700097>
- Álvarez, M., N. M. Fajar, B. R. Carter, E. F. Guallart, F. F. Pérez, R. J. Woosley, and A. Murata, 2020: Global Ocean Spectrophotometric pH Assessment: Consistent Inconsistencies. *Environmental Science & Technology*, **54**, 10977-10988, <https://doi.org/10.1021/acs.est.9b06932>
- Amaya, D. J., A. J. Miller, S.-P. Xie, and Y. Kosaka, 2020: Physical drivers of the summer 2019 North Pacific marine heatwave. *Nature Communications*, **11**, 1903, <https://doi.org/10.1038/s41467-020-15820-w>
- Amin, H., M. Bagherbandi, and L. E. Sjöberg, 2020: Quantifying barostatic sea-level change from satellite altimetry, GRACE and Argo observations over 2005–2016. *Advances in Space Research*, **65**, 1922-1940, <https://doi.org/10.1016/j.asr.2020.01.029>
- Anandh, T. S., B. K. Das, J. Kuttippurath, and A. Chakraborty, 2020: A Comparative Analysis of the Bay of Bengal Ocean State Using Standalone and Coupled Numerical Models. *Asia-Pacific Journal of Atmospheric Sciences*, <https://doi.org/10.1007/s13143-020-00197-z>
- André, X., P.-Y. Le Traon, S. Le Reste, V. Dutreuil, E. Leymarie, D. Malardé, C. Marec, J. Sagot, M. Amice, M. Babin, H. Claustre, A. David, F. D'Ortenzio, N. Kolodziejczyk, J. L. Lagunas, M. Le Menn, B. Moreau, D. Nogré, C. Penkerç'h, A. Poteau, C. Renaut, C. Schaeffer, V. Taillandier, and V. Thierry, 2020: Preparing the New Phase of Argo:

- Technological Developments on Profiling Floats in the NAOS Project. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.577446>
- Andreev, A. G., 2020: Circulation of Waters in the Northwestern Part of the Bering Sea According to Satellite Data. *Izvestiya, Atmospheric and Oceanic Physics*, **56**, 963-969, <https://doi.org/10.1134/S0001433820090029>
- Andreev, A. G., M. V. Budyansky, G. V. Khen, and M. Y. Uleysky, 2020: Water dynamics in the western Bering Sea and its impact on chlorophyll a concentration. *Ocean Dynamics*, **70**, 593-602, <https://doi.org/10.1007/s10236-020-01347-7>
- Andres, M., R. C. Musgrave, D. L. Rudnick, K. L. Zeiden, T. Peacock, and J.-H. Park, 2020: On the Predictability of Sea Surface Height around Palau. *Journal of Physical Oceanography*, **50**, 3267-3294, <https://doi.org/10.1175/JPO-D-19-0310.1>
- Androulidakis, Y., V. Kourafalou, M. Le Hénaff, H. Kang, N. Ntaganou, and C. Hu, 2020: Gulf Stream evolution through the Straits of Florida: the role of eddies and upwelling near Cuba. *Ocean Dynamics*, **70**, 1005-1032, <https://doi.org/10.1007/s10236-020-01381-5>
- Anju, M., M. G. Sreeush, V. Valsala, B. R. Smitha, F. Hamza, G. Bharathi, and C. V. Naidu, 2020: Understanding the Role of Nutrient Limitation on Plankton Biomass Over Arabian Sea Via 1-D Coupled Biogeochemical Model and Bio-Argo Observations. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015502, <https://doi.org/10.1029/2019JC015502>
- Arteaga, L. A., E. Boss, M. J. Behrenfeld, T. K. Westberry, and J. L. Sarmiento, 2020: Seasonal modulation of phytoplankton biomass in the Southern Ocean. *Nature Communications*, **11**, 5364, <https://doi.org/10.1038/s41467-020-19157-2>
- Atamanchuk, D., J. Koelling, U. Send, and D. W. R. Wallace, 2020: Rapid transfer of oxygen to the deep ocean mediated by bubbles. *Nature Geoscience*, **13**, 232-237, <https://doi.org/10.1038/s41561-020-0532-2>
- Baba, Y., 2020: Roles of atmospheric variabilities in the formation of the Indian Ocean Dipole. *Ocean Dynamics*, **70**, 21-39, <https://doi.org/10.1007/s10236-019-01318-7>
- Baetge, N., J. R. Graff, M. J. Behrenfeld, and C. A. Carlson, 2020: Net Community Production, Dissolved Organic Carbon Accumulation, and Vertical Export in the Western North Atlantic. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.00227>
- Balaguru, K., G. R. Foltz, L. R. Leung, J. Kaplan, W. Xu, N. Reul, and B. Chapron, 2020: Pronounced Impact of Salinity on Rapidly Intensifying Tropical Cyclones. *Bulletin of the American Meteorological Society*, **101**, E1497-E1511, <https://doi.org/10.1175/BAMS-D-19-0303.1>
- Baldry, K., P. G. Stratton, N. A. Hill, and P. W. Boyd, 2020: Subsurface Chlorophyll-a Maxima in the Southern Ocean. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.00671>
- Barpanda, P. and T. A. Shaw, 2020: Surface Fluxes Modulate the Seasonality of Zonal-Mean Storm Tracks. *Journal of the Atmospheric Sciences*, **77**, 753-779, <https://doi.org/10.1175/JAS-D-19-0139.1>
- Barton, B. I., C. Lique, and Y.-D. Lenn, 2020: Water Mass Properties Derived From Satellite Observations in the Barents Sea. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015449, <https://doi.org/10.1029/2019JC015449>

- Bastin, S., M. Claus, P. Brandt, and R. J. Greatbatch, 2020: Equatorial Deep Jets and Their Influence on the Mean Equatorial Circulation in an Idealized Ocean Model Forced by Intraseasonal Momentum Flux Convergence. *Geophysical Research Letters*, **47**, e2020GL087808, <https://doi.org/10.1029/2020GL087808>
- Beadling, R. L., J. L. Russell, R. J. Stouffer, M. Mazloff, L. D. Talley, P. J. Goodman, J. B. Sallée, H. T. Hewitt, P. Hyder, and A. Pandde, 2020: Representation of Southern Ocean Properties across Coupled Model Intercomparison Project Generations: CMIP3 to CMIP6. *Journal of Climate*, **33**, 6555-6581, <https://doi.org/10.1175/JCLI-D-19-0970.1>
- Beal, L. M., J. Vialard, M. K. Roxy, J. Li, M. Andres, H. Annamalai, M. Feng, W. Han, R. Hood, T. Lee, M. Lengaigne, R. Lumpkin, Y. Masumoto, M. J. McPhaden, M. Ravichandran, T. Shinoda, B. M. Sloyan, P. G. Strutton, A. C. Subramanian, T. Tozuka, C. C. Ummenhofer, A. S. Unnikrishnan, J. Wiggert, L. Yu, L. Cheng, D. G. Desbruyères, and V. Parvathi, 2020: A Road Map to IndOOS-2: Better Observations of the Rapidly Warming Indian Ocean. *Bulletin of the American Meteorological Society*, **101**, E1891-E1913, <https://doi.org/10.1175/BAMS-D-19-0209.1>
- Behera, N., D. Swain, and S. Sil, 2020: Effect of Antarctic sea ice on chlorophyll concentration in the Southern Ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, **178**, 104853, <https://doi.org/10.1016/j.dsr2.2020.104853>
- Behrens, E., J. Williams, O. Morgenstern, P. Sutton, G. Rickard, and M. J. M. Williams, 2020: Local Grid Refinement in New Zealand's Earth System Model: Tasman Sea Ocean Circulation Improvements and Super-Gyre Circulation Implications. *Journal of Advances in Modeling Earth Systems*, **12**, e2019MS001996, <https://doi.org/10.1029/2019MS001996>
- Belonenko, T., A. Frolova, and V. Gnevyshev, 2020: Detection of waveguide for Rossby waves using satellite altimetry in the Antarctic Circumpolar Current. *International Journal of Remote Sensing*, **41**, 6232-6247, <https://doi.org/10.1080/01431161.2020.1752955>
- Bernardo, P. S. and O. T. Sato, 2020: Volumetric Characterization of the South Atlantic Subtropical Mode Water Types. *Geophysical Research Letters*, **47**, e2019GL086653, <https://doi.org/10.1029/2019GL086653>
- Bestley, S., E. van Wijk, M. Rosenberg, R. Eriksen, S. Corney, K. Tattersall, and S. Rintoul, 2020: Ocean circulation and frontal structure near the southern Kerguelen Plateau: The physical context for the Kerguelen Axis ecosystem study. *Deep Sea Research Part II: Topical Studies in Oceanography*, **174**, <https://doi.org/10.1016/j.dsr2.2018.07.013>
- Biló, T. C. and W. E. Johns, 2020: The Deep Western Boundary Current and Adjacent Interior Circulation at 24°–30°N: Mean Structure and Mesoscale Variability. *Journal of Physical Oceanography*, **50**, 2735-2758, <https://doi.org/10.1175/JPO-D-20-0094.1>
- Bishop, S. P., R. J. Small, and F. O. Bryan, 2020: The Global Sink of Available Potential Energy by Mesoscale Air-Sea Interaction. *Journal of Advances in Modeling Earth Systems*, **12**, e2020MS002118, <https://doi.org/10.1029/2020MS002118>
- Bordone, A., F. Pennechi, G. Raiteri, L. Repetti, and F. Reseghetti, 2020: XBT, ARGO Float and Ship-Based CTD Profiles Intercompared under Strict Space-Time Conditions in the Mediterranean Sea: Assessment of Metrological Comparability. *Journal of Marine Science and Engineering*, **8**, <https://doi.org/10.3390/jmse8050313>
- Boretti, A., 2020: The pattern of sea-level rise across the North Atlantic from

- long-term-trend tide gauges. *Ocean & Coastal Management*, **196**, 105309, <https://doi.org/10.1016/j.ocecoaman.2020.105309>
- Bousquet, O., M. Dalleau, M. Bocquet, P. Gaspar, S. Bielli, S. Ciccione, E. Remy, and A. Vidard, 2020: Sea Turtles for Ocean Research and Monitoring: Overview and Initial Results of the STORM Project in the Southwest Indian Ocean. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.594080>
- Boutin, J., J. L. Vergely, E. P. Dinnat, P. Waldteufel, F. D. Amico, N. Reul, A. Supply, and C. Thouvenin-Masson, 2020: Correcting Sea Surface Temperature Spurious Effects in Salinity Retrieved From Spaceborne L-Band Radiometer Measurements. *IEEE Transactions on Geoscience and Remote Sensing*, 1-14, <https://doi.org/10.1109/TGRS.2020.3030488>
- Briggs, N., G. Dall'Olmo, and H. Claustre, 2020: Major role of particle fragmentation in regulating biological sequestration of CO₂ by the oceans. *Science*, **367**, 791, <http://dx.doi.org/10.1126/science.aay1790>
- Brokaw, R. J., B. Subrahmanyam, C. B. Trott, and A. Chaigneau, 2020: Eddy Surface Characteristics and Vertical Structure in the Gulf of Mexico from Satellite Observations and Model Simulations. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015538, <https://doi.org/10.1029/2019JC015538>
- Bronselaer, B., J. L. Russell, M. Winton, N. L. Williams, R. M. Key, J. P. Dunne, R. A. Feely, K. S. Johnson, and J. L. Sarmiento, 2020: Importance of wind and meltwater for observed chemical and physical changes in the Southern Ocean. *Nature Geoscience*, **13**, 35-42, <https://doi.org/10.1038/s41561-019-0502-8>
- Broomé, S., L. Chafik, and J. Nilsson, 2020: Mechanisms of decadal changes in sea surface height and heat content in the eastern Nordic Seas. *Ocean Sci.*, **16**, 715-728, <https://doi.org/10.5194/os-16-715-2020>
- Bruciaferri, D., G. Shapiro, S. Stanichny, A. Zatsepin, T. Ezer, F. Wobus, X. Francis, and D. Hilton, 2020: The development of a 3D computational mesh to improve the representation of dynamic processes: The Black Sea test case. *Ocean Modelling*, **146**, 101534, <https://doi.org/10.1016/j.ocemod.2019.101534>
- Bruvik, E. M., I. Fer, K. Våge, and P. M. Haugan, 2020: A revised ocean glider concept to realize Stommel's vision and supplement Argo floats. *Ocean Sci.*, **16**, 291-305, <https://doi.org/10.5194/os-16-291-2020>
- Bryden, H. L., W. E. Johns, B. A. King, G. McCarthy, E. L. McDonagh, B. I. Moat, and D. A. Smeed, 2020: Reduction in Ocean Heat Transport at 26°N since 2008 Cools the Eastern Subpolar Gyre of the North Atlantic Ocean. *Journal of Climate*, **33**, 1677-1689, <https://doi.org/10.1175/JCLI-D-19-0323.1>
- Buckley, J. M., B. Mingels, and A. Tandon, 2020: The impact of lateral advection on SST and SSS in the northern Bay of Bengal during 2015. *Deep Sea Research Part II: Topical Studies in Oceanography*, **172**, 104653, <https://doi.org/10.1016/j.dsr2.2019.104653>
- Buongiorno Nardelli, B., 2020: A Deep Learning Network to Retrieve Ocean Hydrographic Profiles from Combined Satellite and In Situ Measurements. *Remote Sensing*, **12**, <https://doi.org/10.3390/rs12193151>
- Caballero, A., S. Mulet, N. Ayoub, I. Manso-Narvarte, X. Davila, C. Boone, F. Toublanc, and A. Rubio, 2020: Integration of HF Radar Observations for an Enhanced Coastal Mean

- Dynamic Topography. *Frontiers in Marine Science*, **7**,
<https://doi.org/10.3389/fmars.2020.588713>
- Cai, W.-Y., Z.-Q. Liu, and M.-Y. Zhang, 2020: Trajectory Clustering Based Oceanic Anomaly Detection Using Argo Profile Floats. Cham, Springer International Publishing, 498-508, https://doi.org/10.1007/978-3-030-41114-5_37
- Calvert, D., G. Nurser, M. J. Bell, and B. Fox-Kemper, 2020: The impact of a parameterisation of submesoscale mixed layer eddies on mixed layer depths in the NEMO ocean model. *Ocean Modelling*, **154**, 101678,
<https://doi.org/10.1016/j.ocemod.2020.101678>
- Camargo, C. M. L., R. E. M. Riva, T. H. J. Hermans, and A. B. A. Slangen, 2020: Exploring Sources of Uncertainty in Steric Sea-Level Change Estimates. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016551, <https://doi.org/10.1029/2020JC016551>
- Carroll, D., D. Menemenlis, J. F. Adkins, K. W. Bowman, H. Brix, S. Dutkiewicz, I. Fenty, M. M. Gierach, C. Hill, O. Jahn, P. Landschützer, J. M. Lauderdale, J. Liu, M. Manizza, J. D. Naviaux, C. Rödenbeck, D. S. Schimel, T. Van der Stocken, and H. Zhang, 2020: The ECCO-Darwin Data-Assimilative Global Ocean Biogeochemistry Model: Estimates of Seasonal to Multidecadal Surface Ocean pCO₂ and Air-Sea CO₂ Flux. *Journal of Advances in Modeling Earth Systems*, **12**, e2019MS001888,
<https://doi.org/10.1029/2019MS001888>
- Castruccio, F. S., A. R. Karspeck, G. Danabasoglu, J. Hendricks, T. Hoar, N. Collins, and J. L. Anderson, 2020: An EnOI-Based Data Assimilation System With DART for a High-Resolution Version of the CESM2 Ocean Component. *Journal of Advances in Modeling Earth Systems*, **12**, e2020MS002176,
<https://doi.org/10.1029/2020MS002176>
- Chai, F., K. S. Johnson, H. Claustre, X. Xing, Y. Wang, E. Boss, S. Riser, K. Fennel, O. Schofield, and A. Sutton, 2020: Monitoring ocean biogeochemistry with autonomous platforms. *Nature Reviews Earth & Environment*, **1**, 315-326,
<https://doi.org/10.1038/s43017-020-0053-y>
- Chang, P., S. Zhang, G. Danabasoglu, S. G. Yeager, H. Fu, H. Wang, F. S. Castruccio, Y. Chen, J. Edwards, D. Fu, Y. Jia, L. C. Laurindo, X. Liu, N. Rosenbloom, R. J. Small, G. Xu, Y. Zeng, Q. Zhang, J. Bacmeister, D. A. Bailey, X. Duan, A. K. DuVivier, D. Li, Y. Li, R. Neale, A. Stössel, L. Wang, Y. Zhuang, A. Baker, S. Bates, J. Dennis, X. Diao, B. Gan, A. Gopal, D. Jia, Z. Jing, X. Ma, R. Saravanan, W. G. Strand, J. Tao, H. Yang, X. Wang, Z. Wei, and L. Wu, 2020: An Unprecedented Set of High-Resolution Earth System Simulations for Understanding Multiscale Interactions in Climate Variability and Change. *Journal of Advances in Modeling Earth Systems*, **12**, e2020MS002298,
<https://doi.org/10.1029/2020MS002298>
- Chao, G., X. Wu, L. Zhang, H. Fu, K. Liu, and G. Han, 2020: China Ocean ReAnalysis (CORA) version 1.0 products and validation for 2009–18: 2009–18年西北太平洋区域海洋再分析CORA1.0产品研制及检验. *Atmospheric and Oceanic Science Letters*, 100023,
<https://doi.org/10.1016/j.aosl.2020.100023>
- Chen, C., F. Yan, Y. Gao, T. Jin, and Z. Zhou, 2020: Improving reconstruction of sound speed profiles using a self-organizing map method with multi-source observations. *Remote Sensing Letters*, **11**, 572-580, <https://doi.org/10.1080/2150704X.2020.1742940>

- Chen, C., F. Yan, T. Jin, and Z. Zhou, 2020: Investigating acoustic propagation in the Sonic Duct related with subtropical mode water in Northwestern Pacific ocean. *Applied Acoustics*, **169**, 107478, <https://doi.org/10.1016/j.apacoust.2020.107478>
- Chen, D., E. Lian, Y. Shu, S. Yang, Y. Li, C. Li, P. Liu, and N. Su, 2020: Origin of the springtime South China Sea Warm Current in the southwestern Taiwan Strait: Evidence from seawater oxygen isotope. *Science China Earth Sciences*, **63**, 1564-1576, <https://doi.org/10.1007/s11430-019-9642-8>
- Chen, G., W. Han, X. Zhang, L. Liang, H. Xue, K. Huang, Y. He, J. Li, and D. Wang, 2020: Determination of Spatiotemporal Variability of the Indian Equatorial Intermediate Current. *Journal of Physical Oceanography*, **50**, 3095-3108, <https://doi.org/10.1175/JPO-D-20-0042.1>
- Chen, J., H. Liu, C. Bai, H. Yan, K. Lu, S. Bao, and K. Liu, 2020: Identifying Climate Modes Contributing to Sea Surface Salinity Decadal Variation in the North Pacific Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2019JC016011, <https://doi.org/10.1029/2019JC016011>
- Chen, J., B. Tapley, C. Wilson, A. Cazenave, K.-W. Seo, and J.-S. Kim, 2020: Global Ocean Mass Change From GRACE and GRACE Follow-On and Altimeter and Argo Measurements. *Geophysical Research Letters*, **47**, e2020GL090656, <https://doi.org/10.1029/2020GL090656>
- Chen, Y., F. Zhai, and P. Li, 2020: Decadal Variation of the Kuroshio Intrusion Into the South China Sea During 1992–2016. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015699, <https://doi.org/10.1029/2019JC015699>
- Chen, Z., F. Wang, J. Zheng, and Y. Yang, 2020: Seasonal variations of eddy kinetic energy flux in the South Indian Countercurrent region. *Journal of Oceanology and Limnology*, **38**, 1464-1475, <https://doi.org/10.1007/s00343-020-0115-5>
- Chen, Z., X. Wang, and L. Liu, 2020: Reconstruction of Three-Dimensional Ocean Structure From Sea Surface Data: An Application of isQG Method in the Southwest Indian Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016351, <https://doi.org/10.1029/2020JC016351>
- Cheng, L., J. Abraham, J. Zhu, K. E. Trenberth, J. Fasullo, T. Boyer, R. Locarnini, B. Zhang, F. Yu, L. Wan, X. Chen, X. Song, Y. Liu, and M. E. Mann, 2020: Record-Setting Ocean Warmth Continued in 2019. *Advances in Atmospheric Sciences*, **37**, 137-142, <https://doi.org/10.1007/s00376-020-9283-7>
- Cheng, L., K. E. Trenberth, N. Gruber, J. P. Abraham, J. T. Fasullo, G. Li, M. E. Mann, X. Zhao, and J. Zhu, 2020: Improved Estimates of Changes in Upper Ocean Salinity and the Hydrological Cycle. *Journal of Climate*, **33**, 10357-10381, <https://doi.org/10.1175/JCLI-D-20-0366.1>
- Cherian, D. A., E. L. Shroyer, H. W. Wijesekera, and J. N. Moum, 2020: The Seasonal Cycle of Upper-Ocean Mixing at 8°N in the Bay of Bengal. *Journal of Physical Oceanography*, **50**, 323-342, <https://doi.org/10.1175/JPO-D-19-0114.1>
- Chiswell, S. M. and P. J. H. Sutton, 2020: Relationships between long-term ocean warming, marine heat waves and primary production in the New Zealand region. *New Zealand Journal of Marine and Freshwater Research*, 1-22, <https://doi.org/10.1080/00288330.2020.1713181>

- Chowdhury, R. R., S. Prasanna Kumar, and A. Chakraborty, 2020: A study on the physical and biogeochemical responses of the Bay of Bengal due to cyclone Madi. *Journal of Operational Oceanography*, 1-22, <https://doi.org/10.1080/1755876X.2020.1817659>
- Chowdhury, R. R., S. Prasanna Kumar, J. Narvekar, and A. Chakraborty, 2020: Back-to-Back Occurrence of Tropical Cyclones in the Arabian Sea During October–November 2015: Causes and Responses. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015836, <https://doi.org/10.1029/2019JC015836>
- Chu, X., G. Chen, and Y. Qi, 2020: Periodic Mesoscale Eddies in the South China Sea. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015139, <https://doi.org/10.1029/2019JC015139>
- Claustre, H., K. S. Johnson, and Y. Takeshita, 2020: Observing the Global Ocean with Biogeochemical-Argo. *Annual Review of Marine Science*, **12**, 23-48, <https://doi.org/10.1146/annurev-marine-010419-010956>
- Clément, L., E. L. McDonagh, A. Marzocchi, and A. J. G. Nurser, 2020: Signature of Ocean Warming at the Mixed Layer Base. *Geophysical Research Letters*, **47**, e2019GL086269, <https://doi.org/10.1029/2019GL086269>
- Colberg, F., G. B. Brassington, P. Sandery, P. Sakov, and S. Aijaz, 2020: High and medium resolution ocean models for the Great Barrier Reef. *Ocean Modelling*, **145**, 101507, <https://doi.org/10.1016/j.ocemod.2019.101507>
- Correa-Ramirez, M., Á. Rodríguez-Santana, C. Ricaurte-Villota, and J. Paramo, 2020: The Southern Caribbean upwelling system off Colombia: Water masses and mixing processes. *Deep Sea Research Part I: Oceanographic Research Papers*, **155**, 103145, <https://doi.org/10.1016/j.dsr.2019.103145>
- Corredor-Acosta, A., N. Cortés-Chong, A. Acosta, M. Pizarro-Koch, A. Vargas, J. Medellín-Mora, G. S. Saldías, V. Echeverry-Guerra, J. Gutiérrez-Fuentes, and S. Betancur-Turizo, 2020: Spatio-Temporal Variability of Chlorophyll-A and Environmental Variables in the Panama Bight. *Remote Sensing*, **12**, <https://doi.org/10.3390/rs12132150>
- Courtois, P., Y. Garcia-Quintana, X. Hu, and P. G. Myers, 2020: Kinematic Subduction Rate Of Labrador Sea Water From an Eddy-Permitting Numerical Model. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015475, <https://doi.org/10.1029/2019JC015475>
- Cummins, P. F. and T. Ross, 2020: Secular trends in water properties at Station P in the northeast Pacific: An updated analysis. *Progress in Oceanography*, **186**, 102329, <https://doi.org/10.1016/j.pocean.2020.102329>
- D'Ortenzio, F., V. Taillandier, H. Claustre, L. M. Prieur, E. Leymarie, A. Mignot, A. Poteau, C. Penkerch, and C. M. Schmechtig, 2020: Biogeochemical Argo: The Test Case of the NAOS Mediterranean Array. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.00120>
- Da, N. D., G. R. Foltz, and K. Balaguru, 2020: A Satellite-Derived Upper-Ocean Stratification Data Set for the Tropical North Atlantic With Potential Applications for Hurricane Intensity Prediction. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015980, <https://doi.org/10.1029/2019JC015980>
- Daher, H., L. M. Beal, and F. U. Schwarzkopf, 2020: A New Improved Estimation of Agulhas

- Leakage Using Observations and Simulations of Lagrangian Floats and Drifters. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015753, <https://doi.org/10.1029/2019JC015753>
- Dai, J., H. Wang, W. Zhang, Y. An, and R. Zhang, 2020: Observed spatiotemporal variation of three-dimensional structure and heat/salt transport of anticyclonic mesoscale eddy in Northwest Pacific. *Journal of Oceanology and Limnology*, <https://doi.org/10.1007/s00343-019-9148-z>
- Dandapat, S., C. Gnanaseelan, and A. Parekh, 2020: Impact of excess and deficit river runoff on Bay of Bengal upper ocean characteristics using an ocean general circulation model. *Deep Sea Research Part II: Topical Studies in Oceanography*, **172**, 104714, <https://doi.org/10.1016/j.dsr2.2019.104714>
- Dañobeitia, J. J., S. Pouliquen, T. Johannessen, A. Basset, M. Cannat, B. G. Pfeil, M. I. Fredella, P. Materia, C. Gourcuff, G. Magnifico, E. Delory, J. del Rio Fernandez, I. Rodero, L. Beranzoli, I. Nardello, D. Iudicone, T. Carval, J. M. Gonzalez Aranda, G. Petihakis, J. Blandin, W. L. Kutsch, J.-M. Rintala, A. R. Gates, and P. Favali, 2020: Toward a Comprehensive and Integrated Strategy of the European Marine Research Infrastructures for Ocean Observations. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.00180>
- D'Asaro, E., M. Altabet, N. S. Kumar, and M. Ravichandran, 2020: Structure of the Bay of Bengal oxygen deficient zone. *Deep Sea Research Part II: Topical Studies in Oceanography*, **179**, 104650, <https://doi.org/10.1016/j.dsr2.2019.104650>
- de Freitas Assad, L. P., R. Toste, C. S. Böck, D. M. Nehme, L. Sancho, A. E. Soares, and L. Landau, 2020: Ocean climatology at Brazilian Equatorial Margin: A numerical approach. *Journal of Computational Science*, **44**, 101159, <https://doi.org/10.1016/j.jocs.2020.101159>
- de Jong, M. F., L. de Steur, N. Fried, R. Bol, and S. Kritsotalakis, 2020: Year-Round Measurements of the Irminger Current: Variability of a Two-Core Current System Observed in 2014–2016. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016193, <https://doi.org/10.1029/2020JC016193>
- de Lavergne, C., C. Vic, G. Madec, F. Roquet, A. F. Waterhouse, C. B. Whalen, Y. Cuyppers, P. Bouruet-Aubertot, B. Ferron, and T. Hibiya, 2020: A Parameterization of Local and Remote Tidal Mixing. *Journal of Advances in Modeling Earth Systems*, **12**, e2020MS002065, <https://doi.org/10.1029/2020MS002065>
- de Marez, C., X. Carton, P. L'Hégaret, T. Meunier, A. Stegner, B. Le Vu, and M. Morvan, 2020: Oceanic vortex mergers are not isolated but influenced by the β -effect and surrounding eddies. *Scientific Reports*, **10**, 2897, <https://doi.org/10.1038/s41598-020-59800-y>
- de Marez, C., T. Meunier, M. Morvan, P. L'Hégaret, and X. Carton, 2020: Study of the stability of a large realistic cyclonic eddy. *Ocean Modelling*, **146**, 101540, <https://doi.org/10.1016/j.ocemod.2019.101540>
- de Marez, C., T. Meunier, P. Tedesco, P. L'Hégaret, and X. Carton, 2020: Vortex–wall interaction on the β -plane and the generation of deep submesoscale cyclones by internal Kelvin Waves–current interactions. *Geophysical & Astrophysical Fluid Dynamics*, **114**, 588–606, <https://doi.org/10.1080/03091929.2020.1772779>

- De Silva, L. W. A., J. Inoue, H. Yamaguchi, and T. Terui, 2020: Medium range sea ice prediction in support of Japanese research vessel MIRAI's expedition cruise in 2018. *Polar Geography*, **43**, 223-239, <https://doi.org/10.1080/1088937X.2019.1707317>
- de Souza, J. M. A. C., P. Couto, R. Soutelino, and M. Roughan, 2020: Evaluation of four global ocean reanalysis products for New Zealand waters—A guide for regional ocean modelling. *New Zealand Journal of Marine and Freshwater Research*, 1-24, <https://doi.org/10.1080/00288330.2020.1713179>
- de Winter, N. J., J. Vellekoop, A. J. Clark, P. Stassen, R. P. Speijer, and P. Claeys, 2020: The Giant Marine Gastropod *Campanile Giganteum* (Lamarck, 1804) as a High-Resolution Archive of Seasonality in the Eocene Greenhouse World. *Geochemistry, Geophysics, Geosystems*, **21**, e2019GC008794, <https://doi.org/10.1029/2019GC008794>
- DeCarlo, T. M., L. Gajdzik, J. Ellis, D. J. Coker, M. B. Roberts, N. M. Hammerman, J. M. Pandolfi, A. A. Monroe, and M. L. Berumen, 2020: Nutrient-supplying ocean currents modulate coral bleaching susceptibility. *Science Advances*, **6**, eabc5493, <https://doi.org/10.1126/sciadv.abc5493>
- Delpech, A., S. Cravatte, F. Marin, C. Ménesguen, and Y. Morel, 2020: Deep Eddy Kinetic Energy in the Tropical Pacific From Lagrangian Floats. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016313, <https://doi.org/10.1029/2020JC016313>
- Delpech, A., S. Cravatte, F. Marin, Y. Morel, E. Gronchi, and E. Kestenare, 2020: Observed Tracer Fields Structuration by Middepth Zonal Jets in the Tropical Pacific. *Journal of Physical Oceanography*, **50**, 281-304, <https://doi.org/10.1175/JPO-D-19-0132.1>
- Demuyndck, P., T. Tyrrell, A. Naveira Garabato, M. C. Moore, and A. P. Martin, 2020: Spatial variations in silicate-to-nitrate ratios in Southern Ocean surface waters are controlled in the short term by physics rather than biology. *Biogeosciences*, **17**, 2289-2314, <https://doi.org/10.5194/bg-17-2289-2020>
- Desbruyères, D. G., B. Sinha, E. L. McDonagh, S. A. Josey, N. P. Holliday, D. A. Smeed, A. L. New, A. Megann, and B. I. Moat, 2020: Importance of Boundary Processes for Heat Uptake in the Subpolar North Atlantic. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016366, <https://doi.org/10.1029/2020JC016366>
- Dey, S. P., M. K. Dash, K. Sasmal, S. Jana, and N. J. Raju, 2020: Impact of river runoff on seasonal sea level, Kelvin waves, and East India Coastal Current in the Bay of Bengal : A numerical study using ROMS. *Regional Studies in Marine Science*, **35**, 101214, <http://www.sciencedirect.com/science/article/pii/S2352485518302810>
- Dietze, H., U. Löptien, and J. Getzlaff, 2020: MOMSO 1.0 – an eddying Southern Ocean model configuration with fairly equilibrated natural carbon. *Geosci. Model Dev.*, **13**, 71-97, <https://doi.org/10.5194/gmd-13-71-2020>
- Dilmahamod, A. F., P. Penven, B. Aguiar-González, C. J. C. Reason, and J. C. Hermes, 2020: A Model Investigation of the Influences of the South-East Madagascar Current on the South-East Madagascar Bloom. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015761, <https://doi.org/10.1029/2019JC015761>
- Doi, T., S. K. Behera, and T. Yamagata, 2020: Wintertime Impacts of the 2019 Super IOD on East Asia. *Geophysical Research Letters*, **47**, e2020GL089456, <https://doi.org/10.1029/2020GL089456>

- Doi, T., S. K. Behera, and T. Yamagata, 2020: Predictability of the Super IOD Event in 2019 and Its Link With El Niño Modoki. *Geophysical Research Letters*, **47**, e2019GL086713, <https://doi.org/10.1029/2019GL086713>
- Dong, J., B. Fox-Kemper, H. Zhang, and C. Dong, 2020: The Scale of Submesoscale Baroclinic Instability Globally. *Journal of Physical Oceanography*, **50**, 2649-2667, <https://doi.org/10.1175/JPO-D-20-0043.1>
- Dong, S., H. Lopez, S.-K. Lee, C. S. Meinen, G. Goni, and M. Baringer, 2020: What Caused the Large-Scale Heat Deficit in the Subtropical South Atlantic Ocean During 2009–2012? *Geophysical Research Letters*, **47**, e2020GL088206, <https://doi.org/10.1029/2020GL088206>
- Dorfschäfer, G. S., C. A. S. Tanajura, F. B. Costa, and R. C. Santana, 2020: A New Approach for Estimating Salinity in the Southwest Atlantic and Its Application in a Data Assimilation Evaluation Experiment. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016428, <https://doi.org/10.1029/2020JC016428>
- Dosso, D. and G. Silvello, 2020: Data credit distribution: A new method to estimate databases impact. *Journal of Informetrics*, **14**, 101080, <https://doi.org/10.1016/j.joi.2020.101080>
- Du, M., F. Zheng, J. Zhu, R. Lin, H. Yang, and Q. Chen, 2020: A New Ensemble-Based Approach to Correct the Systematic Ocean Temperature Bias of CAS-ESM-C to Improve Its Simulation and Data Assimilation Abilities. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016406, <https://doi.org/10.1029/2020JC016406>
- Du, Y., Y. Zhang, L.-Y. Zhang, T. Tozuka, B. Ng, and W. Cai, 2020: Thermocline Warming Induced Extreme Indian Ocean Dipole in 2019. *Geophysical Research Letters*, **47**, e2020GL090079, <https://doi.org/10.1029/2020GL090079>
- Duncan, B. N., L. E. Ott, J. B. Abshire, L. Brucker, M. L. Carroll, J. Carton, J. C. Comiso, E. P. Dinnat, B. C. Forbes, A. Gonsamo, W. W. Gregg, D. K. Hall, I. Ialongo, R. Jandt, R. A. Kahn, A. Karpechko, S. R. Kawa, S. Kato, T. Kumpula, E. Kyrölä, T. V. Loboda, K. C. McDonald, P. M. Montesano, R. Nassar, C. S. R. Neigh, C. L. Parkinson, B. Poulter, J. Pulliainen, K. Rautiainen, B. M. Rogers, C. S. Rousseaux, A. J. Soja, N. Steiner, J. Tamminen, P. C. Taylor, M. A. Tzortziou, H. Virta, J. S. Wang, J. D. Watts, D. M. Winker, and D. L. Wu, 2020: Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. *Reviews of Geophysics*, **58**, e2019RG000652, <https://doi.org/10.1029/2019RG000652>
- Duran, E. R., H. E. Phillips, R. Furue, P. Spence, and N. L. Bindoff, 2020: Southern Australia Current System based on a gridded hydrography and a high-resolution model. *Progress in Oceanography*, **181**, 102254, <https://doi.org/10.1016/j.ocemod.2019.101540>
- Dutta, D., B. Mani, and M. K. Dash, 2020: Dynamic and thermodynamic upper-ocean response to the passage of Bay of Bengal cyclones 'Phailin' and 'Hudhud': a study using a coupled modelling system. *Environmental Monitoring and Assessment*, **191**, 808, <https://doi.org/10.1007/s10661-019-7704-9>
- Dzwonkowski, B., J. Coogan, S. Fournier, G. Lockridge, K. Park, and T. Lee, 2020: Compounding impact of severe weather events fuels marine heatwave in the coastal ocean. *Nature Communications*, **11**, 4623,

- <https://doi.org/10.1038/s41467-020-18339-2>
- Echols, R. and S. C. Riser, 2020: Spice and Barrier Layers: An Arabian Sea Case Study. *Journal of Physical Oceanography*, **50**, 695-714, <https://doi.org/10.1175/JPO-D-19-0215.1>
- Echols, R. and S. C. Riser, 2020: The Impact of Barrier Layers on Arabian Sea Surface Temperature Variability. *Geophysical Research Letters*, **47**, e2019GL085290, <https://doi.org/10.1029/2019GL085290>
- Eden, C., F. Pollmann, and D. Olbers, 2020: Towards a Global Spectral Energy Budget for Internal Gravity Waves in the Ocean. *Journal of Physical Oceanography*, **50**, 935-944, <https://doi.org/10.1175/JPO-D-19-0022.1>
- Estella-Perez, V., J. Mignot, E. Guilyardi, D. Swingedouw, and G. Reverdin, 2020: Advances in reconstructing the AMOC using sea surface observations of salinity. *Climate Dynamics*, **55**, 975-992, <https://doi.org/10.1007/s00382-020-05304-4>
- Estrada-Allis, S. N., J. Sheinbaum Pardo, J. M. Azevedo Correia de Souza, C. E. Enríquez Ortiz, I. Mariño Tapia, and J. A. Herrera-Silveira, 2020: Dissolved inorganic nitrogen and particulate organic nitrogen budget in the Yucatán shelf: driving mechanisms through a physical–biogeochemical coupled model. *Biogeosciences*, **17**, 1087-1111, <https://doi.org/10.5194/bg-17-1087-2020>
- Fan, G., Z. Han, W. Ma, S. Chen, F. Chai, M. R. Mazloff, J. Pan, and H. Zhang, 2020: Southern Ocean carbon export efficiency in relation to temperature and primary productivity. *Scientific Reports*, **10**, 13494, <https://doi.org/10.1038/s41598-020-70417-z>
- Fedorov, A. M. and I. L. Bashmachnikov, 2020: Accuracy of the deep convection intensity from a limited number of casts. *Dynamics of Atmospheres and Oceans*, **92**, 101164, <https://doi.org/10.1016/j.dynatmoce.2020.101164>
- Feng, Y., X. Chen, and K.-K. Tung, 2020: ENSO diversity and the recent appearance of Central Pacific ENSO. *Climate Dynamics*, **54**, 413-433, <https://doi.org/10.1007/s00382-019-05005-7>
- Fer, I., A. Bosse, and J. Dugstad, 2020: Norwegian Atlantic Slope Current along the Lofoten Escarpment. *Ocean Sci.*, **16**, 685-701, <https://doi.org/10.5194/os-16-685-2020>
- Fournier, S., T. Lee, X. Wang, T. W. K. Armitage, O. Wang, I. Fukumori, and R. Kwok, 2020: Sea Surface Salinity as a Proxy for Arctic Ocean Freshwater Changes. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016110, <https://doi.org/10.1029/2020JC016110>
- Fourrier, M., L. Coppola, H. Claustre, F. D’Ortenzio, R. Sauzède, and J.-P. Gattuso (2020), A Regional Neural Network Approach to Estimate Water-Column Nutrient Concentrations and Carbonate System Variables in the Mediterranean Sea: CANYON-MED, *Frontiers in Marine Science*, **7**, doi: <https://doi.org/10.3389/fmars.2020.00620>.
- Francis, P. A., A. K. Jithin, J. B. Effy, A. Chatterjee, K. Chakraborty, A. Paul, B. Balaji, S. S. C. Shenoj, P. Biswamoy, A. Mukherjee, P. Singh, B. Deepsankar, S. S. Reddy, P. N. Vinayachandran, M. S. G. Kumar, T. V. S. U. Bhaskar, M. Ravichandran, A. S. Unnikrishnan, D. Shankar, A. Prakash, S. G. Aparna, R. Harikumar, K. Kaviyazhahu, K. Suprit, R. V. Shesu, N. K. Kumar, N. S. Rao, K. Annapurnaiah, R. Venkatesan, A. S. Rao, E. N. Rajagopal, V. S. Prasad, M. D. Gupta, T. M. B. Nair, E. P. R. Rao, and B. V. Satyanarayana, 2020: High-Resolution Operational Ocean Forecast and Reanalysis

- System for the Indian Ocean. *Bulletin of the American Meteorological Society*, **101**, E1340-E1356, <https://doi.org/10.1175/BAMS-D-19-0083.1>
- Frederikse, T., F. Landerer, L. Caron, S. Adhikari, D. Parkes, V. W. Humphrey, S. Dangendorf, P. Hogarth, L. Zanna, L. Cheng, and Y.-H. Wu, 2020: The causes of sea-level rise since 1900. *Nature*, **584**, 393-397, <https://doi.org/10.1038/s41586-020-2591-3>
- Fu, Y., F. Li, J. Karstensen, and C. Wang, 2020: A stable Atlantic Meridional Overturning Circulation in a changing North Atlantic Ocean since the 1990s. *Science Advances*, **6**, eabc7836, <https://doi.org/10.1126/sciadv.abc7836>
- Fumenia, A., A. Petrenko, H. Loisel, K. Djaoudi, A. deVerneil, and T. Moutin (2020), Optical proxy for particulate organic nitrogen from BGC-Argo floats, *Opt. Express*, **28**(15), 21391-21406, doi: <https://doi.org/10.1364/OE.395648>.
- Gasparin, F., M. Hamon, E. Rémy, and P.-Y. L. Traon, 2020: How Deep Argo Will Improve the Deep Ocean in an Ocean Reanalysis. *Journal of Climate*, **33**, 77-94, <https://doi.org/10.1175/JCLI-D-19-0208.1>
- Geng, W., F. Cheng, Q. Xie, X. Zou, W. He, Z. Wang, Y. Shu, G. Chen, D. Liu, D. Ye, R. Wang, and C. Liu, 2020: Observation system simulation experiments using an ensemble-based method in the northeastern South China Sea. *Journal of Oceanology and Limnology*, **38**, 1729-1745, <https://doi.org/10.1007/s00343-019-9119-4>
- Ghetiya, S. and R. K. Nayak, 2020: Genesis potential parameter using satellite derived daily tropical cyclone heat potential for North Indian ocean. *International Journal of Remote Sensing*, **41**, 8934-8947, <https://doi.org/10.1080/01431161.2020.1795299>
- Goes, M., G. Goni, S. Dong, T. Boyer, and M. Baringer, 2020: The Complementary Value of XBT and Argo Observations to Monitor Ocean Boundary Currents and Meridional Heat and Volume Transports: A Case Study in the Atlantic Ocean. *Journal of Atmospheric and Oceanic Technology*, **37**, 2267-2282, <https://doi.org/10.1175/JTECH-D-20-0027.1>
- Gonçalves Neto, A., J. B. Palter, A. Bower, H. Furey, and X. Xu, 2020: Labrador Sea Water Transport Across the Charlie-Gibbs Fracture Zone. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016068, <https://doi.org/10.1029/2020JC016068>
- Gopalakrishnan, G., A. C. Subramanian, A. J. Miller, H. Seo, and D. Sengupta, 2020: Estimation and prediction of the upper ocean circulation in the Bay of Bengal. *Deep Sea Research Part II: Topical Studies in Oceanography*, **172**, 104721, <https://doi.org/10.1016/j.dsr2.2019.104721>
- Gopika, S., T. Izumo, J. Vialard, M. Lengaigne, I. Suresh, and M. R. R. Kumar, 2020: Aliasing of the Indian Ocean externally-forced warming spatial pattern by internal climate variability. *Climate Dynamics*, **54**, 1093-1111, <https://doi.org/10.1007/s00382-019-05049-9>
- Gordon, C., K. Fennel, C. Richards, L. K. Shay, and J. K. Brewster, 2020: Can ocean community production and respiration be determined by measuring high-frequency oxygen profiles from autonomous floats? *Biogeosciences*, **17**, 4119-4134, <https://doi.org/10.5194/bg-17-4119-2020>
- Gou, Y., T. Zhang, J. Liu, L. Wei, and J. Cui, 2020: DeepOcean: A General Deep Learning Framework for Spatio-Temporal Ocean Sensing Data Prediction. *IEEE Access*, **8**,

- 79192-79202, <https://doi.org/10.1109/ACCESS.2020.2990939>
- Gourrion, J., T. Szekely, R. Killick, B. Owens, G. Reverdin, and B. Chapron, 2020: Improved Statistical Method for Quality Control of Hydrographic Observations. *Journal of Atmospheric and Oceanic Technology*, **37**, 789-806, <https://doi.org/10.1175/JTECH-D-18-0244.1>
- Gradone, J. C., M. J. Oliver, A. R. Davies, C. Moffat, and A. Irwin, 2020: Sea Surface Kinetic Energy as a Proxy for Phytoplankton Light Limitation in the Summer Pelagic Southern Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015646, <https://doi.org/10.1029/2019JC015646>
- Gu, Y., X. Cheng, Y. Qi, and G. Wang, 2020: Characterizing the seasonality of vertical chlorophyll-a profiles in the Southwest Indian Ocean from the Bio-Argo floats. *Journal of Marine Systems*, **212**, 103426, <https://doi.org/10.1016/j.jmarsys.2020.103426>
- Guan, C., F. Wang, and S. Hu, 2020: The role of oceanic feedbacks in the 2014–2016 El Niño events as derived from ocean reanalysis data. *Journal of Oceanology and Limnology*, **38**, 1394-1407, <https://doi.org/10.1007/s00343-020-0038-1>
- Guan, S. D. and Y. J. Hou, 2020: Super Typhoon Tembin (2012) induced sea surface cooling and enhanced diapycnal mixing in the northwest Pacific Ocean. *Oceanologia et Limnologia Sinica*, **51**, 1301-1309,
- Gulakaram, V. S., N. K. Vissa, and P. K. Bhaskaran, 2020: Characteristics and vertical structure of oceanic mesoscale eddies in the Bay of Bengal. *Dynamics of Atmospheres and Oceans*, **89**, 101131, <https://doi.org/10.1016/j.dynatmoce.2020.101131>
- Gunduz, M., E. Özsoy, and R. Hordoir, 2020: A model of Black Sea circulation with strait exchange (2008–2018). *Geosci. Model Dev.*, **13**, 121-138, <https://doi.org/10.5194/gmd-13-121-2020>
- Gunn, K. L., L. M. Beal, S. Elipot, K. McMonigal, and A. Houk, 2020: Mixing of Subtropical, Central, and Intermediate Waters Driven by Shifting and Pulsing of the Agulhas Current. *Journal of Physical Oceanography*, **50**, 3545-3560, <https://doi.org/10.1175/JPO-D-20-0093.1>
- Guo, W. Y., Y. Qiu, and X. Y. Lin, 2020: The interannual variability of barrier layer in the Bay of Bengal and its relationship with IOD events. *Haiyang Xuebao*, **42**, 38-49,
- Guo, Y., Y. Li, F. Wang, Y. Wei, and Z. Rong, 2020: Processes Controlling Sea Surface Temperature Variability of Ningaloo Niño. *Journal of Climate*, **33**, 4369-4389, <https://doi.org/10.1175/JCLI-D-19-0698.1>
- Gutiérrez-Rodríguez, A., K. Safi, D. Fernández, A. Forcén-Vázquez, P. Gourvil, L. Hoffmann, M. Pinkerton, P. Sutton, and S. D. Nodder, 2020: Decoupling Between Phytoplankton Growth and Microzooplankton Grazing Enhances Productivity in Subantarctic Waters on Campbell Plateau, Southeast of New Zealand. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015550, <https://doi.org/10.1029/2019JC015550>
- Hackert, E., R. M. Kovach, A. Molod, G. Vernieres, A. Borovikov, J. Marshak, and Y. Chang, 2020: Satellite Sea Surface Salinity Observations Impact on El Niño/Southern Oscillation Predictions: Case Studies From the NASA GEOS Seasonal Forecast System. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015788, <https://doi.org/10.1029/2019JC015788>

- Haëntjens, N., A. Della Penna, N. Briggs, L. Karp-Boss, P. Gaube, H. Claustre, and E. Boss, 2020: Detecting Mesopelagic Organisms Using Biogeochemical-Argo Floats. *Geophysical Research Letters*, **47**, e2019GL086088, <https://doi.org/10.1029/2019GL086088>
- Halliwell, G. R., G. J. Goni, M. F. Mehari, V. H. Kourafalou, M. Baringer, and R. Atlas, 2020: OSSE Assessment of Underwater Glider Arrays to Improve Ocean Model Initialization for Tropical Cyclone Prediction. *Journal of Atmospheric and Oceanic Technology*, **37**, 467-487, <https://doi.org/10.1175/JTECH-D-18-0195.1>
- Halliwell, G. R., Jr., G. J. Goni, M. F. Mehari, V. H. Kourafalou, M. Baringer, and R. Atlas, 2020: OSSE Assessment of Underwater Glider Arrays to Improve Ocean Model Initialization for Tropical Cyclone Prediction. *Journal of Atmospheric and Oceanic Technology*, **37**, 467-487, <https://doi.org/10.1175/JTECH-D-18-0195.1>
- Haskell Ii, W. Z., A. J. Fassbender, J. S. Long, and J. N. Plant, 2020: Annual Net Community Production of Particulate and Dissolved Organic Carbon From a Decade of Biogeochemical Profiling Float Observations in the Northeast Pacific. *Global Biogeochemical Cycles*, **34**, e2020GB006599, <https://doi.org/10.1029/2020GB006599>
- Haumann, F. A., N. Gruber, and M. Münnich, 2020: Sea-Ice Induced Southern Ocean Subsurface Warming and Surface Cooling in a Warming Climate. *AGU Advances*, **1**, e2019AV000132, <https://doi.org/10.1029/2019AV000132>
- Haumann, F. A., R. Moorman, S. C. Riser, L. H. Smedsrud, T. Maksym, A. P. S. Wong, E. A. Wilson, R. Drucker, L. D. Talley, K. S. Johnson, R. M. Key, and J. L. Sarmiento, 2020: Supercooled Southern Ocean Waters. *Geophysical Research Letters*, **47**, e2020GL090242, <https://doi.org/10.1029/2020GL090242>
- Hausmann, U., J. B. Sallée, N. C. Jourdain, P. Mathiot, C. Rousset, G. Madec, J. Deshayes, and T. Hattermann, 2020: The Role of Tides in Ocean-Ice Shelf Interactions in the Southwestern Weddell Sea. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015847, <https://doi.org/10.1029/2019JC015847>
- Hayashida, H., G. Carnat, M. Galí, A. H. Monahan, E. Mortenson, T. Sou, and N. S. Steiner, 2020: Spatiotemporal Variability in Modeled Bottom Ice and Sea Surface Dimethylsulfide Concentrations and Fluxes in the Arctic During 1979–2015. *Global Biogeochemical Cycles*, **34**, e2019GB006456, <https://doi.org/10.1029/2019GB006456>
- He, H., Y. Wang, X. Han, Y. Wei, P. Lin, Z. Qiu, and Y. Wang, 2020: Anomalous distribution of distinctive water masses over the Carlsberg Ridge in May 2012. *Ocean Sci.*, **16**, 895-906, <https://doi.org/10.5194/os-16-895-2020>
- He, M., J. He, and G. Christakos, 2020: Improved space–time sea surface salinity mapping in Western Pacific ocean using contingency modeling. *Stochastic Environmental Research and Risk Assessment*, <https://doi.org/10.1007/s00477-019-01764-1>
- He, Q., H. Zhan, and S. Cai, 2020: Anticyclonic Eddies Enhance the Winter Barrier Layer and Surface Cooling in the Bay of Bengal. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016524, <https://doi.org/10.1029/2020JC016524>
- Hermans, T. H. J., J. Tinker, M. D. Palmer, C. A. Katsman, B. L. A. Vermeersen, and A. B. A. Slangen, 2020: Improving sea-level projections on the Northwestern European shelf using dynamical downscaling. *Climate Dynamics*, **54**, 1987-2011, <https://doi.org/10.1007/s00382-019-05104-5>

- Holliday, N. P., M. Bersch, B. Berx, L. Chafik, S. Cunningham, C. Florindo-López, H. Hátún, W. Johns, S. A. Josey, K. M. H. Larsen, S. Mulet, M. Oltmanns, G. Reverdin, T. Rossby, V. Thierry, H. Valdimarsson, and I. Yashayaev, 2020: Ocean circulation causes the largest freshening event for 120 years in eastern subpolar North Atlantic. *Nature Communications*, **11**, 585, <https://doi.org/10.1038/s41467-020-14474-y>
- Hong, Y., Y. Du, T. Qu, Y. Zhang, and W. Cai, 2020: Variability of the Subantarctic Mode Water Volume in the South Indian Ocean During 2004–2018. *Geophysical Research Letters*, **47**, e2020GL087830, <https://doi.org/10.1029/2020GL087830>
- Horii, T., I. Ueki, and K. Ando, 2020: Coastal Upwelling Events, Salinity Stratification, and Barrier Layer Observed Along the Southwestern Coast of Sumatra. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016287, <https://doi.org/10.1029/2020JC016287>
- Hou, T.-H., J.-Y. Chang, C.-C. Tsai, and T.-W. Hsu, 2020: Three-Dimensional Simulations of Wind Effects on Green Island Wake. *Water*, **12**, <https://doi.org/10.3390/w12113039>
- Houghton, I. A. and J. D. Wilson, 2020: El Niño Detection Via Unsupervised Clustering of Argo Temperature Profiles. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015947, <https://doi.org/10.1029/2019JC015947>
- Houpert, L., S. Cunningham, N. Fraser, C. Johnson, N. P. Holliday, S. Jones, B. Moat, and D. Rayner, 2020: Observed Variability of the North Atlantic Current in the Rockall Trough From 4 Years of Mooring Measurements. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016403, <https://doi.org/10.1029/2020JC016403>
- Hu, S., L. Liu, C. Guan, L. Zhang, J. Wang, Q. Wang, J. Ma, F. Wang, F. Jia, J. Feng, X. Lu, F. Wang, and D. Hu, 2020: Dynamic features of near-inertial oscillations in the Northwestern Pacific derived from mooring observations from 2015 to 2018. *Journal of Oceanology and Limnology*, **38**, 1092-1107, <https://doi.org/10.1007/s00343-020-9332-1>
- Hu, S., J. Sprintall, C. Guan, D. Hu, F. Wang, X. Lu, and S. Li, 2020: Observed Triple Mode of Salinity Variability in the Thermocline of Tropical Pacific Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016210, <https://doi.org/10.1029/2020JC016210>
- Hu, S., J. Sprintall, C. Guan, M. J. McPhaden, F. Wang, D. Hu, and W. Cai, 2020: Deep-reaching acceleration of global mean ocean circulation over the past two decades. *Science Advances*, **6**, eaax7727, <http://dx.doi.org/10.1126/sciadv.aax7727>
- Huang, B., M. L'Heureux, Z.-Z. Hu, X. Yin, and H.-M. Zhang, 2020: How Significant Was the 1877/78 El Niño? *Journal of Climate*, **33**, 4853-4869, <https://doi.org/10.1175/JCLI-D-19-0650.1>
- Huang, B., M. J. Menne, T. Boyer, E. Freeman, B. E. Gleason, J. H. Lawrimore, C. Liu, J. J. Rennie, C. J. Schreck, F. Sun, R. Vose, C. N. Williams, X. Yin, and H.-M. Zhang, 2020: Uncertainty Estimates for Sea Surface Temperature and Land Surface Air Temperature in NOAA GlobalTemp Version 5. *Journal of Climate*, **33**, 1351-1379, <https://doi.org/10.1175/JCLI-D-19-0395.1>
- Huang, C., M. Wu, X. Huang, J. Cao, J. He, C. Chen, G. Zhai, K. Deng, and X. Lu, 2020: Reconstruction and evaluation of the full-depth sound speed profile with world ocean atlas 2018 for the hydrographic surveying in the deep sea waters. *Applied*

- Ocean Research*, **101**, 102201, <https://doi.org/10.1016/j.apor.2020.102201>
- Huang, J., W. Zhuang, X.-H. Yan, and Z. Wu, 2020: Impacts of the upper-ocean salinity variations on the decadal sea level change in the Southeast Indian Ocean during the Argo era. *Acta Oceanologica Sinica*, **39**, 1-10, <https://doi.org/10.1007/s13131-020-1574-4>
- Hui, Y., L. Zhang, F. Wang, and X. Yan, 2020: Revisit of seasonal variability of subsurface temperature in the tropical Pacific with Argo data. *Journal of Marine Systems*, **204**, 103312, <https://doi.org/10.1016/j.jmarsys.2020.103312>
- Hummels, R., M. Dengler, W. Rath, G. R. Foltz, F. Schütte, T. Fischer, and P. Brandt, 2020: Surface cooling caused by rare but intense near-inertial wave induced mixing in the tropical Atlantic. *Nature Communications*, **11**, 3829, <https://doi.org/10.1038/s41467-020-17601-x>
- Ioannou, A., A. Stegner, T. Dubos, B. Le Vu, and S. Speich, 2020: Generation and Intensification of Mesoscale Anticyclones by Orographic Wind Jets: The Case of Ierapetra Eddies Forced by the Etesians. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015810, <https://doi.org/10.1029/2019JC015810>
- Ioannou, A., A. Stegner, F. Dumas, and B. Le Vu, 2020: Three-Dimensional Evolution of Mesoscale Anticyclones in the Lee of Crete. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.609156>
- Iqbal, K., S. Piao, and M. Zhang, 2020: Decadal Spatiotemporal Halocline Analysis by ISAS15 Due to Influx of Major Rivers in Oceans and Discrepancies Illustrated Near the Bay of Bengal. *Water*, **12**, <https://doi.org/10.3390/w12102886>
- Iqbal, K., M. Zhang, and S. Piao, 2020: Symmetrical and Asymmetrical Rectifications Employed for Deeper Ocean Extrapolations of In Situ CTD Data and Subsequent Sound Speed Profiles. *Symmetry*, **12**, 1455, <https://doi.org/10.3390/sym12091455>
- Jackson, R. L., A. J. Gabric, M. T. Woodhouse, H. B. Swan, G. B. Jones, R. Cropp, and E. S. M. Deschaseaux, 2020: Coral Reef Emissions of Atmospheric Dimethylsulfide and the Influence on Marine Aerosols in the Southern Great Barrier Reef, Australia. *Journal of Geophysical Research: Atmospheres*, **125**, e2019JD031837, <https://doi.org/10.1029/2019JD031837>
- Jaeger, G. S., J. A. MacKinnon, A. J. Lucas, E. Shroyer, J. Nash, A. Tandon, J. T. Farrar, and A. Mahadevan, 2020: How Spice is Stirred in the Bay of Bengal. *Journal of Physical Oceanography*, **50**, 2669-2688, <https://doi.org/10.1175/JPO-D-19-0077.1>
- Janeković, I., H. Mihanović, I. Vilibić, B. Grčić, S. Ivatek-Šahdan, M. Tudor, and T. Djakovac, 2020: Using multi-platform 4D-Var data assimilation to improve modeling of Adriatic Sea dynamics. *Ocean Modelling*, **146**, 101538, <https://doi.org/10.1016/j.ocemod.2019.101538>
- Jangir, B., D. Swain, S. K. Ghose, R. Goyal, and T. V. S. U. Bhaskar, 2020: Inter-comparison of model, satellite and in situ tropical cyclone heat potential in the North Indian Ocean. *Natural Hazards*, **102**, 557-574, <https://doi.org/10.1007/s11069-019-03756-4>
- Jena, B., and A. N. Pillai (2020), Satellite observations of unprecedented phytoplankton blooms in the Maud Rise polynya, Southern Ocean, *The Cryosphere*, **14**(4), 1385-1398, doi: <https://doi.org/10.5194/tc-14-1385-2020>.
- Jeong, H., X. S. Asay-Davis, A. K. Turner, D. S. Comeau, S. F. Price, R. P. Abernathey, M.

- Veneziani, M. R. Petersen, M. J. Hoffman, M. R. Mazloff, and T. D. Ringler, 2020: Impacts of Ice-Shelf Melting on Water-Mass Transformation in the Southern Ocean from E3SM Simulations. *Journal of Climate*, **33**, 5787-5807, <https://doi.org/10.1175/JCLI-D-19-0683.1>
- Jiang, Y., S. Zhang, J. Tian, Z. Zhang, J. Gan, and C.-R. Wu, 2020: An Examination of Circulation Characteristics in the Luzon Strait and the South China Sea Using High-Resolution Regional Atmosphere-Ocean Coupled Models. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016253, <https://doi.org/10.1029/2020JC016253>
- Jing, F., A. Chauhan, R. P Singh, and P. Dash, 2020: Changes in Atmospheric, Meteorological, and Ocean Parameters Associated with the 12 January 2020 Taal Volcanic Eruption. *Remote Sensing*, **12**, 1026, <https://doi.org/10.3390/rs12061026>
- Jithin, A. K. and P. A. Francis, 2020: Role of internal tide mixing in keeping the deep Andaman Sea warmer than the Bay of Bengal. *Scientific Reports*, **10**, 11982, <https://doi.org/10.1038/s41598-020-68708-6>
- Johnson, G. C., 2020: Comments on "Corrections for Pumped SBE 41CP CTDs Determined from Stratified Tank Experiments". *Journal of Atmospheric and Oceanic Technology*, **37**, 351-355, <https://doi.org/10.1175/JTECH-D-19-0098.1>
- Johnson, G. C., C. Cadot, J. M. Lyman, K. E. McTaggart, and E. L. Steffen, 2020: Antarctic Bottom Water Warming in the Brazil Basin: 1990s Through 2020, From WOCE to Deep Argo. *Geophysical Research Letters*, **47**, e2020GL089191, <https://doi.org/10.1029/2020GL089191>
- Johnson, G. C. and J. M. Lyman, 2020: Sea surface salinity in the State of the Climate in 2019. *Bull. Am. Meteorol. Soc.*, **101**, <https://doi.org/10.1175/2020BAMSStateoftheClimate.1>
- Johnson, G. C. and J. M. Lyman, 2020: Warming trends increasingly dominate global ocean. *Nature Climate Change*, **10**, 757-761, <https://doi.org/10.1038/s41558-020-0822-0>
- Johnson, G. C., J. M. Lyman, T. Boyer, L. Cheng, C. M. Domingues, J. Gilson, M. Ishii, R. E. Killick, D. Monselesan, S. G. Purkey, and S. E. Wijffels, 2020: Ocean Heat Content in the State of the Climate in 2019. *Bull. Am. Meteorol. Soc.*, **101**, <https://doi.org/10.1175/2020BAMSStateoftheClimate.1>
- Johnson, K. S., M. B. Bif, S. Bushinsky, A. J. Fassbender, and Y. Takeshita, 2020: BioGeoChemical Argo in the State of the Climate in 2019. *Bull. Am. Meteorol. Soc.*, **101**, <https://doi.org/10.1175/2020BAMSStateoftheClimate.1>
- Jones, D. C., E. Boland, A. J. S. Meijers, G. Forget, S. Josey, J.-B. Sallée, and E. Shuckburgh, 2020: The Sensitivity of Southeast Pacific Heat Distribution to Local and Remote Changes in Ocean Properties. *Journal of Physical Oceanography*, **50**, 773-790, <https://doi.org/10.1175/JPO-D-19-0155.1>
- Kadarusman, H. Y. Sugeha, L. Pouyaud, R. Hocdé, I. B. Hismayasari, E. Gunaisah, S. B. Widiarto, G. Arafat, F. Widayarsi, D. Mouillot, and E. Paradis, 2020: A thirteen-million-year divergence between two lineages of Indonesian coelacanths. *Scientific Reports*, **10**, 192, <https://doi.org/10.1038/s41598-019-57042-1>
- Kakatkar, R., C. Gnanaseelan, and J. S. Chowdary, 2020: Asymmetry in the tropical Indian Ocean subsurface temperature variability. *Dynamics of Atmospheres and Oceans*, **90**, 101142, <https://doi.org/10.1016/j.dynatmoce.2020.101142>

- Kang, K., H. J. Jo, and Y. Kim, 2020: Ocean Responses to Typhoon Soulik (1819) around Korea. *Ocean Science Journal*, **55**, 445-457, <https://doi.org/10.1007/s12601-020-0030-x>
- Karmakar, N. and V. Misra, 2020: Differences in Northward Propagation of Convection Over the Arabian Sea and Bay of Bengal During Boreal Summer. *Journal of Geophysical Research: Atmospheres*, **125**, e2019JD031648, <https://doi.org/10.1029/2019JD031648>
- Karnauskas, K. B., J. Jakoboski, T. M. S. Johnston, W. B. Owens, D. L. Rudnick, and R. E. Todd, 2020: The Pacific Equatorial Undercurrent in Three Generations of Global Climate Models and Glider Observations. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016609, <https://doi.org/10.1029/2020JC016609>
- Kassis, D. and G. Korres, 2020: Hydrography of the Eastern Mediterranean basin derived from argo floats profile data. *Deep Sea Research Part II: Topical Studies in Oceanography*, **171**, 104712, <https://doi.org/10.1016/j.dsr2.2019.104712>
- Katsura, S. and J. Sprintall, 2020: Seasonality and Formation of Barrier Layers and Associated Temperature Inversions in the Eastern Tropical North Pacific. *Journal of Physical Oceanography*, **50**, 791-808, <https://doi.org/10.1175/JPO-D-19-0194.1>
- Katsura, S., H. Ueno, H. Mitsudera, and S. Kouketsu, 2020: Spatial Distribution and Seasonality of Halocline Structures in the Subarctic North Pacific. *Journal of Physical Oceanography*, **50**, 95-109, <https://doi.org/10.1175/JPO-D-19-0133.1>
- Kawai, Y., S. Hosoda, K. Uehara, and T. Suga, 2020: Heat and salinity transport between the permanent pycnocline and the mixed layer due to the obduction process evaluated from a gridded Argo dataset. *Journal of Oceanography*, <https://doi.org/10.1007/s10872-020-00559-1>
- Kawakami, Y., Y. Kitamura, T. Nakano, and S. Sugimoto, 2020: Long-Term Thermohaline Variations in the North Pacific Subtropical Gyre From a Repeat Hydrographic Section Along 165°E. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015382, <https://doi.org/10.1029/2019JC015382>
- Keppler, L., P. Landschützer, N. Gruber, S. K. Lauvset, and I. Stemmler, 2020: Seasonal Carbon Dynamics in the Near-Global Ocean. *Global Biogeochemical Cycles*, **34**, e2020GB006571, <https://doi.org/10.1029/2020GB006571>
- Kerry, C. and M. Roughan, 2020: Downstream Evolution of the East Australian Current System: Mean Flow, Seasonal, and Intra-annual Variability. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015227, <https://doi.org/10.1029/2019JC015227>
- Kerry, C., M. Roughan, and B. Powell, 2020: Predicting the submesoscale circulation inshore of the East Australian Current. *Journal of Marine Systems*, **204**, 103286, <https://doi.org/10.1016/j.jmarsys.2019.103286>
- Kheireddine, M., G. Dall'Olmo, M. Ouhssain, G. Krokos, H. Claustre, C. Schmechtig, A. Poteau, P. Zhan, I. Hoteit, and B. H. Jones (2020), Organic Carbon Export and Loss Rates in the Red Sea, *Glob. Biogeochem. Cycle*, **34**(10), e2020GB006650, doi: <https://doi.org/10.1029/2020GB006650>.
- Kieke, D., K. Bulsiewicz, I. Deschepper, O. Huhn, M. Kastens, A. Kersting, M. Kollner, L. Krisztian, I. Leimann, B. Mirau, M. Moritz, N. Rohlfs, A. Schneehorst, R. Steinfeldt, I. Stendardo, J. Stiehler, and R. Tao, 2020: Long-term observations of the Atlantic Meridional Overturning Circulation, Cruise No. MSM83, May 17 - June 15, 2019, Las

- Palmas (Spain) - St. John's (Canada). *MERIAN-Berichte*,
https://doi.org/10.2312/cr_msm83.
- Kim, S.-Y., G. Pak, H. J. Lee, Y.-O. Kwon, and Y. H. Kim, 2020: Late-1980s Regime Shift in the Formation of the North Pacific Subtropical Mode Water. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015700, <https://doi.org/10.1029/2019JC015700>
- King, R. R., D. J. Lea, M. J. Martin, I. Mirouze, and J. Heming, 2020: The impact of Argo observations in a global weakly coupled ocean–atmosphere data assimilation and short-range prediction system. *Quarterly Journal of the Royal Meteorological Society*, **146**, 401–414, <https://doi.org/10.1002/qj.3682>
- Kiss, A. E., A. M. Hogg, N. Hannah, F. Boeira Dias, G. B. Brassington, M. A. Chamberlain, C. Chapman, P. Dobrohotoff, C. M. Domingues, E. R. Duran, M. H. England, R. Fiedler, S. M. Griffies, A. Heerdegen, P. Heil, R. M. Holmes, A. Klocker, S. J. Marsland, A. K. Morrison, J. Munroe, M. Nikurashin, P. R. Oke, G. S. Pilo, O. Richet, A. Savita, P. Spence, K. D. Stewart, M. L. Ward, F. Wu, and X. Zhang, 2020: ACCESS-OM2 v1.0: a global ocean–sea ice model at three resolutions. *Geosci. Model Dev.*, **13**, 401–442, <https://doi.org/10.5194/gmd-13-401-2020>
- Kobashi, F., T. Nakano, N. Iwasaka, and T. Ogata, 2020: Decadal-scale variability of the North Pacific subtropical mode water and its influence on the pycnocline observed along 137°E. *Journal of Oceanography*, <https://doi.org/10.1007/s10872-020-00579-x>
- Kodaira, T., T. Waseda, T. Nose, and J. Inoue, 2020: Record high Pacific Arctic seawater temperatures and delayed sea ice advance in response to episodic atmospheric blocking. *Scientific Reports*, **10**, 20830, <https://doi.org/10.1038/s41598-020-77488-y>
- Kokkini, Z., E. Mauri, R. Gerin, P. M. Poulain, S. Simoncelli, and G. Notarstefano, 2020: On the salinity structure in the South Adriatic as derived from float and glider observations in 2013–2016. *Deep Sea Research Part II: Topical Studies in Oceanography*, **171**, 104625, <https://doi.org/10.1016/j.dsr2.2019.07.013>
- Kolås, E. H., Z. Koenig, I. Fer, F. Nilsen, and M. Marnela, 2020: Structure and Transport of Atlantic Water North of Svalbard From Observations in Summer and Fall 2018. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016174, <https://doi.org/10.1029/2020JC016174>
- Koman, G., W. E. Johns, and A. Houk, 2020: Transport and Evolution of the East Reykjanes Ridge Current. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016377, <https://doi.org/10.1029/2020JC016377>
- Kouketsu, S., D. Sasano, S. Osafune, and M. Aoyama, 2020: Relationships Among Decadal Changes in Nitrate and Salinity in the Eastern and Western North Pacific Ocean After 2000. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015916, <https://doi.org/10.1029/2019JC015916>
- Kovalevsky, D. V., I. L. Bashmachnikov, and G. V. Alekseev, 2020: Formation and decay of a deep convective chimney. *Ocean Modelling*, **148**, 101583, <https://doi.org/10.1016/j.ocemod.2020.101583>
- Kubryakov, A. A., A. S. Mikaelyan, S. V. Stanichny, and E. A. Kubryakova, 2020: Seasonal Stages of Chlorophyll-a Vertical Distribution and Its Relation to the Light Conditions in the Black Sea From Bio-Argo Measurements. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016790, <https://doi.org/10.1029/2020JC016790>

- Kuo, Y.-C. and Y.-H. Tseng, 2020: Impact of ENSO on the South China Sea during ENSO decaying winter–spring modeled by a regional coupled model (a new mesoscale perspective). *Ocean Modelling*, **152**, 101655, <https://doi.org/10.1016/j.ocemod.2020.101655>
- Lacour, L., R. Larouche, and M. Babin (2020), In situ evaluation of spaceborne CALIOP lidar measurements of the upper-ocean particle backscattering coefficient, *Opt. Express*, *28*(18), 26989–26999, doi: <https://doi.org/10.1364/OE.397126>.
- Lakshmi, R. S., A. Chatterjee, S. Prakash, and T. Mathew, 2020: Biophysical Interactions in Driving the Summer Monsoon Chlorophyll Bloom Off the Somalia Coast. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015549, <https://doi.org/10.1029/2019JC015549>
- Lankhorst, M. and U. Send, 2020: Uncertainty of North Atlantic Current observations from altimetry, floats, moorings, and XBT. *Progress in Oceanography*, **187**, 102402, <https://doi.org/10.1016/j.pocean.2020.102402>
- Lara, G., R. Miralles, M. Bou-Cabo, J. A. Esteban, and V. Espinosa, 2020: New Insights into the Design and Application of a Passive Acoustic Monitoring System for the Assessment of the Good Environmental Status in Spanish Marine Waters. *Sensors*, **20**, 5353, <https://doi.org/10.3390/s20185353>
- Larson, S. M. and K. Pegion, 2020: Do asymmetries in ENSO predictability arise from different recharged states? *Climate Dynamics*, **54**, 1507–1522, <https://doi.org/10.1007/s00382-019-05069-5>
- Laxenaire, R., S. Speich, and A. Stegner, 2020: Agulhas Ring Heat Content and Transport in the South Atlantic Estimated by Combining Satellite Altimetry and Argo Profiling Floats Data. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015511, <https://doi.org/10.1029/2019JC015511>
- Le Bras, I. A. A., F. Straneo, J. Holte, M. F. de Jong, and N. P. Holliday, 2020: Rapid Export of Waters Formed by Convection Near the Irminger Sea's Western Boundary. *Geophysical Research Letters*, **47**, e2019GL085989, <https://doi.org/10.1029/2019GL085989>
- Le Corre, M., J. Gula, and A. M. Tréguier, 2020: Barotropic vorticity balance of the North Atlantic subpolar gyre in an eddy-resolving model. *Ocean Sci.*, **16**, 451–468, <https://doi.org/10.5194/os-16-451-2020>
- Le Paih, N., T. Hattermann, O. Boebel, T. Kanzow, C. Lüpkes, G. Rohardt, V. Strass, and S. Herbette, 2020: Coherent Seasonal Acceleration of the Weddell Sea Boundary Current System Driven by Upstream Winds. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016316, <https://doi.org/10.1029/2020JC016316>
- Le Traon, P.-Y., F. D'Ortenzio, M. Babin, E. Leymarie, C. Marec, S. Pouliquen, V. Thierry, C. Cabanes, H. Claustre, D. Desbruyères, L. Lacour, J.-L. Lagunas, G. Maze, H. Mercier, C. Penkerch, N. Poffa, A. Poteau, L. Prieur, V. Racapé, A. Randelhoff, E. Rehm, C. M. Schmechtig, V. Taillandier, T. Wagener, and X. Xing, 2020: Preparing the New Phase of Argo: Scientific Achievements of the NAOS Project. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.577408>
- Le Vine, D. M. and E. P. Dinnat, 2020: The Multifrequency Future for Remote Sensing of Sea Surface Salinity from Space. *Remote Sensing*, **12**, <https://doi.org/10.3390/rs12091381>

- Lee, J.-H., Y.-S. Chang, and S. Zhang, 2020: Assessment of the JMA Serial Observation Lines in the Northwestern Pacific in OSSE Studies with the GFDL Ensemble Coupled Data Assimilation System. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015686, <https://doi.org/10.1029/2019JC015686>
- Lee, J.-H., J.-H. Moon, and T. Kim, 2020: Typhoon-Triggered Phytoplankton Bloom and Associated Upper-Ocean Conditions in the Northwestern Pacific: Evidence from Satellite Remote Sensing, Argo Profile, and an Ocean Circulation Model. *Journal of Marine Science and Engineering*, **8**,
- Leitner, A. B., A. B. Neuheimer, and J. C. Drazen, 2020: Evidence for long-term seamount-induced chlorophyll enhancements. *Scientific Reports*, **10**, 12729, <https://doi.org/10.1038/s41598-020-69564-0>
- Levin, J., H. G. Arango, B. Laughlin, E. Hunter, J. Wilkin, and A. M. Moore, 2020: Observation impacts on the Mid-Atlantic Bight front and cross-shelf transport in 4D-Var ocean state estimates: Part I — Multiplatform analysis. *Ocean Modelling*, **156**, 101721, <https://doi.org/10.1016/j.ocemod.2020.101721>
- Li, G., L. Cheng, J. Zhu, K. E. Trenberth, M. E. Mann, and J. P. Abraham, 2020: Increasing ocean stratification over the past half-century. *Nature Climate Change*, **10**, 1116-1123, <https://doi.org/10.1038/s41558-020-00918-2>
- Li, J., R. S. Pickart, P. Lin, F. Bahr, K. R. Arrigo, L. Juranek, and X.-Y. Yang, 2020: The Atlantic Water Boundary Current in the Chukchi Borderland and Southern Canada Basin. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016197, <https://doi.org/10.1029/2020JC016197>
- Li, L., M. S. Lozier, and M. W. Buckley, 2020: An Investigation of the Ocean's Role in Atlantic Multidecadal Variability. *Journal of Climate*, **33**, 3019-3035, <https://doi.org/10.1175/JCLI-D-19-0236.1>
- Li, M., S. Zhang, L. Wu, X. Lin, P. Chang, G. Danabasoglu, Z. Wei, X. Yu, H. Hu, X. Ma, W. Ma, D. Jia, X. Liu, H. Zhao, K. Mao, Y. Ma, Y. Jiang, X. Wang, G. Liu, and Y. Chen, 2020: A high-resolution Asia-Pacific regional coupled prediction system with dynamically downscaling coupled data assimilation. *Science Bulletin*, **65**, 1849-1858, <https://doi.org/10.1016/j.scib.2020.07.022>
- Li, M., S. Zhang, L. Wu, X. Lin, P. Chang, G. Danabasoglu, Z. Wei, X. Yu, H. Hu, X. Ma, W. Ma, H. Zhao, D. Jia, X. Liu, K. Mao, Y. Ma, Y. Jiang, X. Wang, G. Liu, and Y. Chen, 2020: An Examination of the Predictability of Tropical Cyclone Genesis in High-Resolution Coupled Models with Dynamically Downscaled Coupled Data Assimilation Initialization. *Advances in Atmospheric Sciences*, **37**, 939-950, <https://doi.org/10.1007/s00376-020-9220-9>
- Li, Q. and M. H. England, 2020: Tropical Indo-Pacific Teleconnections to Southern Ocean Mixed Layer Variability. *Geophysical Research Letters*, **47**, e2020GL088466, <https://doi.org/10.1029/2020GL088466>
- Li, Q., S. Khan, F. Yang, Y. Xu, and K. Zhang, 2020: Compressive Acoustic Sound Speed Profile Estimation in the Arabian Sea. *Marine Geodesy*, **43**, 603-620, <https://doi.org/10.1080/01490419.2020.1796861>
- Li, X., F. Liu, and M. Fang, 2020: Harmonizing models and observations: Data assimilation in Earth system science. *Science China Earth Sciences*, **63**, 1059-1068,

- <https://doi.org/10.1007/s11430-019-9620-x>
- Li, X., Y. Yang, R. Li, L. Zhang, and D. Yuan, 2020: Structure and dynamics of the Pacific North Equatorial Subsurface Current. *Scientific Reports*, **10**, 11758, <https://doi.org/10.1038/s41598-020-68605-y>
- Li, X. and D. Yuan, 2020: An assessment of the CMIP5 models in simulating the Argo geostrophic meridional transport in the North Pacific Ocean. *Journal of Oceanology and Limnology*, **38**, 1445-1463, <https://doi.org/10.1007/s00343-020-0002-0>
- Li, Y., M. Lin, X. Yin, and W. Zhou, 2020: Analysis of the Antenna Array Orientation Performance of the Interferometric Microwave Radiometer (IMR) Onboard the Chinese Ocean Salinity Satellite. *Sensors*, **20**, <https://doi.org/10.3390/s20185396>
- Li, Y., H. Liu, M. Ding, P. Lin, Z. Yu, Y. Yu, Y. Meng, Y. Li, X. Jian, J. Jiang, K. Chen, Q. Yang, Y. Wang, B. Zhao, J. Wei, J. Ma, W. Zheng, and P. Wang, 2020: Eddy-resolving Simulation of CAS-LICOM3 for Phase 2 of the Ocean Model Intercomparison Project. *Advances in Atmospheric Sciences*, **37**, 1067-1080, <https://doi.org/10.1007/s00376-020-0057-z>
- Li, Z. and H. Aiki, 2020: The Life Cycle of Annual Waves in the Indian Ocean as Identified by Seamless Diagnosis of the Energy Flux. *Geophysical Research Letters*, **47**, e2019GL085670, <https://doi.org/10.1029/2019GL085670>
- Li, Z. L., J. C. Zuo, Q. Y. Ji, and e. al, 2020: Reconstruction of 3D sea temperature field based on Argo profile, SST and SLA data. *Marine Forecast*, **37**, 66-75,
- Liang, Y.-C., M.-H. Lo, C.-W. Lan, H. Seo, C. C. Ummenhofer, S. Yeager, R.-J. Wu, and J. D. Steffen, 2020: Amplified seasonal cycle in hydroclimate over the Amazon river basin and its plume region. *Nature Communications*, **11**, 4390, <https://doi.org/10.1038/s41467-020-18187-0>
- Liao, E., L. Resplandy, J. Liu, and K. W. Bowman, 2020: Amplification of the Ocean Carbon Sink During El Niños: Role of Poleward Ekman Transport and Influence on Atmospheric CO₂. *Global Biogeochemical Cycles*, **34**, e2020GB006574, <https://doi.org/10.1029/2020GB006574>
- Liao, X., Y. Du, T. Wang, Q. He, H. Zhan, S. Hu, and G. Wu, 2020: Extreme Phytoplankton Blooms in the Southern Tropical Indian Ocean in 2011. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015649, <https://doi.org/10.1029/2019JC015649>
- Lin, H., W. J. Merryfield, R. Muncaster, G. C. Smith, M. Markovic, F. Dupont, F. Roy, J.-F. o. Lemieux, A. Dirkson, V. V. Kharin, W.-S. Lee, M. Charron, and A. Erfani, 2020: The Canadian Seasonal to Interannual Prediction System Version 2 (CanSIPsv2). *Weather and Forecasting*, **35**, 1317-1343, <https://doi.org/10.1175/WAF-D-19-0259.1>
- Lin, M. and C. Yang, 2020: Ocean Observation Technologies: A Review. *Chinese Journal of Mechanical Engineering*, **33**, 32, <https://doi.org/10.1186/s10033-020-00449-z>
- Lin, P., J. Ma, F. Chai, P. Xiu, and H. Liu, 2020: Decadal variability of nutrients and biomass in the southern region of Kuroshio Extension. *Progress in Oceanography*, **188**, 102441, <https://doi.org/10.1016/j.pocean.2020.102441>
- Lin, P., Z. Yu, H. Liu, Y. Yu, Y. Li, J. Jiang, W. Xue, K. Chen, Q. Yang, B. Zhao, J. Wei, M. Ding, Z. Sun, Y. Wang, Y. Meng, W. Zheng, and J. Ma, 2020: LICOM Model Datasets for the CMIP6 Ocean Model Intercomparison Project. *Advances in Atmospheric Sciences*, **37**, 239-249, <https://doi.org/10.1007/s00376-019-9208-5>

- Liu, C., X. Liang, D. P. Chambers, and R. M. Ponte, 2020: Global Patterns of Spatial and Temporal Variability in Salinity from Multiple Gridded Argo Products. *Journal of Climate*, **33**, 8751-8766, <https://doi.org/10.1175/JCLI-D-20-0053.1>
- Liu, D., F. Wang, J. Zhu, D. Wang, J. Wang, Q. Xie, and Y. Shu, 2020: Impact of Assimilation of Moored Velocity Data on Low-Frequency Current Estimation in Northwestern Tropical Pacific. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015829, <https://doi.org/10.1029/2019JC015829>
- Liu, D. a., J. Sun, and C. Guan, 2020: Inversion of Evaporation and Water Vapor Transport Using HY-2 Multi-Sensor Data. *Journal of Ocean University of China*, **19**, 13-22, <https://doi.org/10.1007/s11802-020-4197-7>
- Liu, H. and T. Qu, 2020: Production and Fate of the South Atlantic Subtropical Underwater. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016309, <https://doi.org/10.1029/2020JC016309>
- Liu, S., J. Li, L. Sun, G. Wang, D. Tang, P. Huang, H. Yan, S. Gao, C. Liu, Z. Gao, Y. Li, and Y. Yang, 2020: Basin-wide responses of the South China Sea environment to Super Typhoon Mangkhut (2018). *Science of The Total Environment*, **731**, 139093, <https://doi.org/10.1016/j.scitotenv.2020.139093>
- Liu, S.-B., E.-B. Wei, Y.-N. Li, H.-X. Dang, and H. Li, 2020: Aquarius semi-theoretical model of sea surface salinity retrieval for foam-covered surface. *International Journal of Remote Sensing*, **41**, 4293-4311, <https://doi.org/10.1080/01431161.2020.1714783>
- Liu, X. and H. Zhou, 2020: Seasonal Variations of the North Equatorial Current Across the Pacific Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015895, <https://doi.org/10.1029/2019JC015895>
- Liu, Y., J. Attema, and W. Hazeleger, 2020: Atmosphere–Ocean Interactions and Their Footprint on Heat Transport Variability in the Northern Hemisphere. *Journal of Climate*, **33**, 3691-3710, <https://doi.org/10.1175/JCLI-D-19-0570.1>
- Liu, Y., D. Tang, S. Tang, E. Morozov, W. Liang, and Y. Sui, 2020: A case study of Chlorophyll a response to tropical cyclone Wind Pump considering Kuroshio invasion and air-sea heat exchange. *Science of The Total Environment*, **741**, 140290, <https://doi.org/10.1016/j.scitotenv.2020.140290>
- Liu, Y., Y. F. Yan, and Z. Ling, 2020: Preliminary analysis on climatological and seasonal variation of barrier layer thickness in the northern Indian Ocean and it's mechanism. *Journal of Tropical Oceanography*, **39**, 98-108,
- Liu, Y. P., D. L. Tang, and W. Z. Liang, 2020: Chlorophyll a concentration response to the typhoon “wind pump” and the Kuroshio in the northeastern South China Sea. *Haiyang Xuebao*, **42**, 16-31,
- Liu, Z., G. Liao, X. Hu, and B. Zhou, 2020: Aspect Ratio of Eddies Inferred From Argo Floats and Satellite Altimeter Data in the Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015555, <https://doi.org/10.1029/2019JC015555>
- Liubartseva, S., M. Smaoui, G. Coppini, G. Gonzalez, R. Lecci, S. Creti, and I. Federico, 2020: Model-based reconstruction of the Ulysse-Virginia oil spill, October–November 2018. *Marine Pollution Bulletin*, **154**, 111002, <https://doi.org/10.1016/j.marpolbul.2020.111002>
- Logan, J. M., H. Pethybridge, A. Lorrain, C. J. Somes, V. Allain, N. Bodin, C. A. Choy, L. Duffy,

- N. Goñi, B. Graham, C. Langlais, F. Ménard, R. Olson, and J. Young, 2020: Global patterns and inferences of tuna movements and trophodynamics from stable isotope analysis. *Deep Sea Research Part II: Topical Studies in Oceanography*, **175**, 104775, <https://doi.org/10.1016/j.dsr2.2020.104775>
- Lorente, P., S. Piedracoba, P. Montero, M. G. Sotillo, M. I. Ruiz, and E. Álvarez-Fanjul, 2020: Comparative Analysis of Summer Upwelling and Downwelling Events in NW Spain: A Model-Observations Approach. *Remote Sensing*, **12**, <https://doi.org/10.3390/rs12172762>
- Lu, F., M. J. Harrison, A. Rosati, T. L. Delworth, X. Yang, W. F. Cooke, L. Jia, C. McHugh, N. C. Johnson, M. Bushuk, Y. Zhang, and A. Adcroft, 2020: GFDL's SPEAR Seasonal Prediction System: Initialization and Ocean Tendency Adjustment (OTA) for Coupled Model Predictions. *Journal of Advances in Modeling Earth Systems*, **12**, e2020MS002149, <https://doi.org/10.1029/2020MS002149>
- Lu, L., S. Zhang, S. G. Yeager, G. Danabasoglu, P. Chang, L. Wu, X. Lin, A. Rosati, and F. Lu, 2020: Impact of Coherent Ocean Stratification on AMOC Reconstruction by Coupled Data Assimilation with a Biased Model. *Journal of Climate*, **33**, 7319-7334, <https://doi.org/10.1175/JCLI-D-19-0735.1>
- Lu, Z., D. Liu, J. Liao, J. Wang, H. Li, and J. Zhang, 2020: Characterizing spatial distribution of chlorophyll a in the Southern Ocean on a circumpolar cruise in summer. *Science of The Total Environment*, **708**, 134833, <https://doi.org/10.1016/j.scitotenv.2019.134833>
- Lu, Z., G. Wang, and X. Shang, 2020: Strength and Spatial Structure of the Perturbation Induced by a Tropical Cyclone to the Underlying Eddies. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016097, <https://doi.org/10.1029/2020JC016097>
- Luo, S., Z. Jing, and Y. Qi, 2020: Submesoscale Flows Associated with Convergent Strain in an Anticyclonic Eddy of the Kuroshio Extension: A High-resolution Numerical Study. *Ocean Science Journal*, **55**, 249-264, <https://doi.org/10.1007/s12601-020-0022-x>
- Lyu, K., X. Zhang, J. A. Church, and Q. Wu, 2020: Processes Responsible for the Southern Hemisphere Ocean Heat Uptake and Redistribution under Anthropogenic Warming. *Journal of Climate*, **33**, 3787-3807, <https://doi.org/10.1175/JCLI-D-19-0478.1>
- Lyu, Y., Y. Li, J. Wang, J. Duan, X. Tang, C. Liu, L. Zhang, Q. Ma, and F. Wang, 2020: Anomalous Upper-Ocean Circulation of the Western Equatorial Pacific following El Niño Events. *Journal of Physical Oceanography*, **50**, 3353-3373, <https://doi.org/10.1175/JPO-D-20-0011.1>
- Ma, C., Z. Gao, S. Li, S. Li, and G. Chen, 2020: An eddy-borne Argo float measurement experiment in the South China Sea. *Ocean Dynamics*, **70**, 1325-1338, <https://doi.org/10.1007/s10236-020-01402-3>
- Ma, T., X. Cheng, Y. Qi, and J. Chen, 2020: Interannual variability in the barrier layer and forcing mechanism in the eastern equatorial Indian Ocean and Bay of Bengal. *Acta Oceanologica Sinica*, **39**, 19-31, <https://doi.org/10.1007/s13131-020-1575-3>
- Macdonald, A. M., S. Yoshida, S. M. Pike, K. O. Buesseler, I. I. Rypina, S. R. Jayne, V. Rossi, J. Kenyon, and J. A. Drysdale, 2020: A Fukushima tracer perspective on four years of North Pacific mode water evolution. *Deep Sea Research Part I: Oceanographic Research Papers*, **166**, 103379, <https://doi.org/10.1016/j.dsr.2020.103379>
- MacGilchrist, G. A., H. L. Johnson, D. P. Marshall, C. Lique, M. Thomas, L. C. Jackson, and R. A.

- Wood, 2020: Locations and Mechanisms of Ocean Ventilation in the High-Latitude North Atlantic in an Eddy-Permitting Ocean Model. *Journal of Climate*, **33**, 10113-10131, <https://doi.org/10.1175/JCLI-D-20-0191.1>
- Mackay, N., C. Wilson, N. P. Holliday, and J. D. Zika, 2020: The Observation-Based Application of a Regional Thermohaline Inverse Method to Diagnose the Formation and Transformation of Water Masses North of the OSNAP Array from 2013 to 2015. *Journal of Physical Oceanography*, **50**, 1533-1555, <https://doi.org/10.1175/JPO-D-19-0188.1>
- Macovei, V. A., S. E. Hartman, U. Schuster, S. Torres-Valdés, C. M. Moore, and R. J. Sanders, 2020: Impact of physical and biological processes on temporal variations of the ocean carbon sink in the mid-latitude North Atlantic (2002–2016). *Progress in Oceanography*, **180**, 102223, <https://doi.org/10.1016/j.pocean.2019.102223>
- Mallick, S. K., N. Agarwal, R. Sharma, K. V. S. R. Prasad, and S. S. V. S. Ramakrishna, 2020: Thermodynamic Response of a High-Resolution Tropical Indian Ocean Model to TOGA COARE Bulk Air–Sea Flux Parameterization: Case Study for the Bay of Bengal (BoB). *Pure and Applied Geophysics*, **177**, 4025-4044, <https://doi.org/10.1007/s00024-020-02448-6>
- Malysheva, A. A., A. A. Kubryakov, A. V. Koldunov, and T. V. Belonenko, 2020: Estimating Agulhas Leakage by Means of Satellite Altimetry and Argo Data. *Izvestiya, Atmospheric and Oceanic Physics*, **56**, 1581-1589, <https://doi.org/10.1134/S0001433820120476>
- Mansour, S., 2020: Geospatial modeling of environmental hazards to coral reefs in the Oman Sea. *Coral Reefs*, **39**, 555-575, <https://doi.org/10.1007/s00338-020-01900-2>
- Mao, C., R. R. King, R. Reid, M. J. Martin, and S. A. Good, 2020: Assessing the Potential Impact of Changes to the Argo and Moored Buoy Arrays in an Operational Ocean Analysis System. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.588267>
- March, D., L. Boehme, J. Tintoré, P. J. Vélez-Belchi, and B. J. Godley, 2020: Towards the integration of animal-borne instruments into global ocean observing systems. *Global Change Biology*, **26**, 586-596, <https://doi.org/10.1111/gcb.14902>
- Margirier, F., P. Testor, E. Heslop, K. Mallil, A. Bosse, L. Houpert, L. Mortier, M.-N. Bouin, L. Coppola, F. D’Ortenzio, X. Durrieu de Madron, B. Mourre, L. Prieur, P. Raimbault, and V. Taillandier, 2020: Abrupt warming and salinification of intermediate waters interplays with decline of deep convection in the Northwestern Mediterranean Sea. *Scientific Reports*, **10**, 20923, <https://doi.org/10.1038/s41598-020-77859-5>
- Martin, M. J., E. Remy, B. Tranchant, R. R. King, E. Greiner, and C. Donlon, 2020: Observation impact statement on satellite sea surface salinity data from two operational global ocean forecasting systems. *Journal of Operational Oceanography*, 1-17, <https://doi.org/10.1080/1755876X.2020.1771815>
- Martinez, E., M. Rodier, M. Pagano, and R. Sauzède, 2020: Plankton spatial variability within the Marquesas archipelago, South Pacific. *Journal of Marine Systems*, **212**, 103432, <https://doi.org/10.1016/j.jmarsys.2020.103432>
- Martini, K. I., D. J. Murphy, R. W. Schmitt, and N. G. Larson, 2020: Reply to “Comments on ‘Corrections for Pumped SBE 41CP CTDs Determined from Stratified Tank

- Experiments". *Journal of Atmospheric and Oceanic Technology*, **37**, 357-363, <https://doi.org/10.1175/JTECH-D-19-0171.1>
- Masuda, S., 2020: Determining subsurface oceanic changes in the Indian sector of the Southern Ocean using Argo float data. *Polar Science*, **23**, 100498, <https://doi.org/10.1016/j.polar.2019.100498>
- Matano, R. P., V. Combes, E. F. Young, and M. P. Meredith, 2020: Modeling the Impact of Ocean Circulation on Chlorophyll Blooms Around South Georgia, Southern Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016391, <https://doi.org/10.1029/2020JC016391>
- Matano, R. P., V. Combes, E. F. Young, and M. P. Meredith, 2020: Modeling the Impact of Ocean Circulation on Chlorophyll Blooms Around South Georgia, Southern Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016391, <https://doi.org/10.1029/2020JC016391>
- Mauzole, Y. L., H. S. Torres, and L.-L. Fu, 2020: Patterns and Dynamics of SST Fronts in the California Current System. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015499, <https://doi.org/10.1029/2019JC015499>
- Mayot, N., P. A. Matrai, A. Arjona, S. Bélanger, C. Marchese, T. Jaegler, M. Ardyna, and M. Steele, 2020: Springtime Export of Arctic Sea Ice Influences Phytoplankton Production in the Greenland Sea. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015799, <https://doi.org/10.1029/2019JC015799>
- Maze, G., and K. Balem (2020), argopy: A Python library for Argo ocean data analysis, *The Journal of Open Source Software*, 5(53), doi: <https://doi.org/10.21105/joss.02425>.
- McCarthy, G. D., P. J. Brown, C. N. Flagg, G. Goni, L. Houpert, C. W. Hughes, R. Hummels, M. Inall, K. Jochumsen, K. M. H. Larsen, P. Lherminier, C. S. Meinen, B. I. Moat, D. Rayner, M. Rhein, A. Roessler, C. Schmid, and D. A. Smeed, 2020: Sustainable Observations of the AMOC: Methodology and Technology. *Reviews of Geophysics*, **58**, e2019RG000654, <https://doi.org/10.1029/2019RG000654>
- McCoy, D., D. Bianchi, and A. L. Stewart, 2020: Global observations of submesoscale coherent vortices in the ocean. *Progress in Oceanography*, **189**, 102452, <https://doi.org/10.1016/j.pocean.2020.102452>
- McMonigal, K., L. M. Beal, S. Elipot, K. L. Gunn, J. Hermes, T. Morris, and A. Houk, 2020: The Impact of Meanders, Deepening and Broadening, and Seasonality on Agulhas Current Temperature Variability. *Journal of Physical Oceanography*, **50**, 3529-3544, <https://doi.org/10.1175/JPO-D-20-0018.1>
- Menezes, V. V., 2020: Statistical Assessment of Sea-Surface Salinity from SMAP: Arabian Sea, Bay of Bengal and a Promising Red Sea Application. *Remote Sensing*, **12**, 447, <https://doi.org/10.3390/rs12030447>
- Meng, L., W. Zhuang, W. Zhang, C. Yan, and X.-H. Yan, 2020: Variability of the Shallow Overturning Circulation in the Indian Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015651, <https://doi.org/10.1029/2019JC015651>
- Menna, M., Y. Cotroneo, P. Falco, E. Zambianchi, R. Di Lemma, P. M. Poulain, G. Fusco, and G. Budillon, 2020: Response of the Pacific Sector of the Southern Ocean to Wind Stress Variability From 1995 to 2017. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015696, <https://doi.org/10.1029/2019JC015696>

- Merchel, M. and W. Walczowski, 2020: Increases in the temperature and salinity of deep and intermediate waters in the West Spitsbergen Current region in 1997–2016. *Oceanologia*, **62**, 501-510, <https://doi.org/10.1016/j.oceano.2020.08.001>
- Meunier, T., J. Sheinbaum, E. Pallàs-Sanz, M. Tenreiro, J. Ochoa, A. Ruiz-Angulo, X. Carton, and C. de Marez, 2020: Heat Content Anomaly and Decay of Warm-Core Rings: the Case of the Gulf of Mexico. *Geophysical Research Letters*, **47**, e2019GL085600, <https://doi.org/10.1029/2019GL085600>
- Mikaelyan, A. S., S. A. Mosharov, A. A. Kubryakov, L. A. Pautova, A. Fedorov, and V. K. Chasovnikov, 2020: The impact of physical processes on taxonomic composition, distribution and growth of phytoplankton in the open Black Sea. *Journal of Marine Systems*, **208**, 103368, <https://doi.org/10.1016/j.jmarsys.2020.103368>
- Miladinova, S., A. Stips, D. Macias Moy, and E. Garcia-Gorriz, 2020: Seasonal and Inter-Annual Variability of the Phytoplankton Dynamics in the Black Sea Inner Basin. *Oceans*, **1**, <https://doi.org/10.3390/oceans1040018>
- Miyazawa, Y., M. Yaremchuk, S. M. Varlamov, T. Miyama, and K. Aoki, 2020: Applying the adjoint-free 4dVar assimilation to modeling the Kuroshio south of Japan. *Ocean Dynamics*, **70**, 1129-1149, <https://doi.org/10.1007/s10236-020-01372-6>
- Molod, A., E. Hackert, Y. Vikhliav, B. Zhao, D. Barahona, G. Vernieres, A. Borovikov, R. M. Kovach, J. Marshak, S. Schubert, Z. Li, Y.-K. Lim, L. C. Andrews, R. Cullather, R. Koster, D. Achuthavarier, J. Carton, L. Coy, J. L. M. Friere, K. M. Longo, K. Nakada, and S. Pawson, 2020: GEOS-S2S Version 2: The GMAO High-Resolution Coupled Model and Assimilation System for Seasonal Prediction. *Journal of Geophysical Research: Atmospheres*, **125**, e2019JD031767, <https://doi.org/10.1029/2019JD031767>
- Moore, A., J. Zavala-Garay, H. G. Arango, C. A. Edwards, J. Anderson, and T. Hoar, 2020: Regional and basin scale applications of ensemble adjustment Kalman filter and 4D-Var ocean data assimilation systems. *Progress in Oceanography*, **189**, 102450, <https://doi.org/10.1016/j.pocean.2020.102450>
- Moreau, S., P. W. Boyd, and P. G. Strutton, 2020: Remote assessment of the fate of phytoplankton in the Southern Ocean sea-ice zone. *Nature Communications*, **11**, 3108, <https://doi.org/10.1038/s41467-020-16931-0>
- Morvan, M., X. Carton, P. L'Hégaret, C. de Marez, S. Corréard, and S. Louazel, 2020: On the dynamics of an idealised bottom density current overflowing in a semi-enclosed basin: mesoscale and submesoscale eddies generation. *Geophysical & Astrophysical Fluid Dynamics*, **114**, 607-630, <https://doi.org/10.1080/03091929.2020.1747058>
- Mu, D., T. Xu, and G. Xu, 2020: An investigation of mass changes in the Bohai Sea observed by GRACE. *Journal of Geodesy*, **94**, 79, <https://doi.org/10.1007/s00190-020-01408-1>
- Mugo, R., S.-I. Saitoh, H. Igarashi, T. Toyoda, S. Masuda, T. Awaji, and Y. Ishikawa, 2020: Identification of skipjack tuna (*Katsuwonus pelamis*) pelagic hotspots applying a satellite remote sensing-driven analysis of ecological niche factors: A short-term run. *PLOS ONE*, **15**, e0237742, <https://doi.org/10.1371/journal.pone.0237742>
- Müller, V. and O. Melnichenko, 2020: Decadal Changes of Meridional Eddy Heat Transport in the Subpolar North Atlantic Derived From Satellite and In Situ Observations. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016081, <https://doi.org/10.1029/2020JC016081>

- Nagura, M., 2020: Variability in Meridional Transport of the Subtropical Circulation in the South Indian Ocean for the Period From 2006 to 2017. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015874, <https://doi.org/10.1029/2019JC015874>
- Nagy, H., K. Lyons, G. Nolan, M. Cure, and T. Dabrowski, 2020: A Regional Operational Model for the North East Atlantic: Model Configuration and Validation. *Journal of Marine Science and Engineering*, **8**, 673, <https://doi.org/10.3390/jmse8090673>
- Nan, F., H. Xue, F. Yu, and R. Wang, 2020: Strengthening and Lengthening of the Hawaiian Lee Countercurrent Driven by the Pacific Trade Wind Acceleration. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016058, <https://doi.org/10.1029/2020JC016058>
- Nezlin, N. P., M. Dever, M. Halverson, J.-M. Leconte, G. Maze, C. Richards, I. Shkvorets, R. Zhang, and G. Johnson, 2020: Accuracy and Long-Term Stability Assessment of Inductive Conductivity Cell Measurements on Argo Floats. *Journal of Atmospheric and Oceanic Technology*, **37**, 2209-2223, <https://doi.org/10.1175/JTECH-D-20-0058.1>
- Nguyen, A. T., P. Heimbach, V. V. Garg, V. Ocaña, C. Lee, and L. Rainville, 2020: Impact of Synthetic Arctic Argo-Type Floats in a Coupled Ocean–Sea Ice State Estimation Framework. *Journal of Atmospheric and Oceanic Technology*, **37**, 1477-1495, <https://doi.org/10.1175/JTECH-D-19-0159.1>
- Nguyen, A. T., R. A. Woodgate, and P. Heimbach, 2020: Elucidating Large-Scale Atmospheric Controls on Bering Strait Throughflow Variability Using a Data-Constrained Ocean Model and Its Adjoint. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016213, <https://doi.org/10.1029/2020JC016213>
- Ni, Q., X. Zhai, G. Wang, and C. W. Hughes, 2020: Widespread Mesoscale Dipoles in the Global Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016479, <https://doi.org/10.1029/2020JC016479>
- Nie, X., Z. Wei, and Y. Li, 2020: Decadal Variability in Salinity of the Indian Ocean Subtropical Underwater During the Argo Period. *Geophysical Research Letters*, **47**, e2020GL089104, <https://doi.org/10.1029/2020GL089104>
- Nimit, K., N. K. Masuluri, A. M. Berger, R. P. Bright, S. Prakash, U. b. Tvs, S. K. T, P. Rohit, T. A, S. Ghosh, and S. P. Varghese, 2020: Oceanographic preferences of yellowfin tuna (*Thunnus albacares*) in warm stratified oceans: A remote sensing approach. *International Journal of Remote Sensing*, **41**, 5785-5805, <https://doi.org/10.1080/01431161.2019.1707903>
- Nyadjro, E. S., A. V. Rydbeck, T. G. Jensen, J. G. Richman, and J. F. Shriver, 2020: On the Generation and Salinity Impacts of Intraseasonal Westward Jets in the Equatorial Indian Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016066, <https://doi.org/10.1029/2020JC016066>
- O’Kane, T. J., D. T. Squire, P. A. Sandery, V. Kitsios, R. J. Matear, T. S. Moore, J. S. Risbey, and I. G. Watterson, 2020: Enhanced ENSO Prediction via Augmentation of Multimodel Ensembles with Initial Thermocline Perturbations. *Journal of Climate*, **33**, 2281-2293, <https://doi.org/10.1175/JCLI-D-19-0444.1>
- Oka, E., S. Kouketsu, D. Yanagimoto, D. Ito, Y. Kawai, S. Sugimoto, and B. Qiu, 2020: Formation of Central Mode Water based on two zonal hydrographic sections in spring 2013 and 2016. *Journal of Oceanography*, **76**, 373-388,

- <https://doi.org/10.1007/s10872-020-00551-9>
- Olbers, D., F. Pollmann, and C. Eden, 2020: On PSI Interactions in Internal Gravity Wave Fields and the Decay of Baroclinic Tides. *Journal of Physical Oceanography*, **50**, 751-771, <https://doi.org/10.1175/JPO-D-19-0224.1>
- Olivier, L., G. Reverdin, A. Hasson, and J. Boutin, 2020: Tropical Instability Waves in the Atlantic Ocean: Investigating the Relative Role of Sea Surface Salinity and Temperature From 2010 to 2018. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016641, <https://doi.org/10.1029/2020JC016641>
- Olmedo, E., et al. (2020), Toward an Enhanced SMOS Level-2 Ocean Salinity Product, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **13**, 6434-6453, doi: <https://doi.org/10.1109/JSTARS.2020.3034432>.
- Oltmanns, M., J. Karstensen, G. W. K. Moore, and S. A. Josey, 2020: Rapid Cooling and Increased Storminess Triggered by Freshwater in the North Atlantic. *Geophysical Research Letters*, **47**, e2020GL087207, <https://doi.org/10.1029/2020GL087207>
- Omand, M. M., R. Govindarajan, J. He, and A. Mahadevan, 2020: Sinking flux of particulate organic matter in the oceans: Sensitivity to particle characteristics. *Scientific Reports*, **10**, 5582, <https://doi.org/10.1038/s41598-020-60424-5>
- Pabortsava, K. and R. S. Lampitt, 2020: High concentrations of plastic hidden beneath the surface of the Atlantic Ocean. *Nature Communications*, **11**, 4073, <https://doi.org/10.1038/s41467-020-17932-9>
- Painter, S. C., 2020: The biogeochemistry and oceanography of the East African Coastal Current. *Progress in Oceanography*, **186**, 102374, <https://doi.org/10.1016/j.pocean.2020.102374>
- Park, J.-E., K.-A. Park, C.-K. Kang, and G. Kim, 2020: Satellite-Observed Chlorophyll-a Concentration Variability and Its Relation to Physical Environmental Changes in the East Sea (Japan Sea) from 2003 to 2015. *Estuaries and Coasts*, **43**, 630-645, <https://doi.org/10.1007/s12237-019-00671-6>
- Pasmans, I., A. L. Kurapov, J. A. Barth, P. M. Kosro, and R. K. Shearman, 2020: Ensemble 4DVAR (En4DVar) data assimilation in a coastal ocean circulation model. Part II: Implementation offshore Oregon–Washington, USA. *Ocean Modelling*, **154**, 101681, <https://doi.org/10.1016/j.ocemod.2020.101681>
- Pellichero, V., J. Boutin, H. Claustre, L. Merlivat, J.-B. Sallée, and S. Blain, 2020: Relaxation of Wind Stress Drives the Abrupt Onset of Biological Carbon Uptake in the Kerguelen Bloom: A Multisensor Approach. *Geophysical Research Letters*, **47**, e2019GL085992, <https://doi.org/10.1029/2019GL085992>
- Pessini, F., Y. Cotroneo, A. Olita, R. Sorgente, A. Ribotti, S. Jendersie, and A. Perilli, 2020: Life history of an anticyclonic eddy in the Algerian basin from altimetry data, tracking algorithm and in situ observations. *Journal of Marine Systems*, **207**, 103346, <https://doi.org/10.1016/j.jmarsys.2020.103346>
- Petit, T., M. S. Lozier, S. A. Josey, and S. A. Cunningham, 2020: Atlantic Deep Water Formation Occurs Primarily in the Iceland Basin and Irminger Sea by Local Buoyancy Forcing. *Geophysical Research Letters*, **47**, e2020GL091028, <https://doi.org/10.1029/2020GL091028>
- Petrova, D., J. Ballester, S. J. Koopman, and X. Rodó, 2020: Multiyear Statistical Prediction of

- ENSO Enhanced by the Tropical Pacific Observing System. *Journal of Climate*, **33**, 163-174, <https://doi.org/10.1175/JCLI-D-18-0877.1>
- Phillips, B. and L. O'Neill, 2020: Observational Analysis of Extratropical Cyclone Interactions with Northeast Pacific Sea Surface Temperature Anomalies. *Journal of Climate*, **33**, 6745-6763, <https://doi.org/10.1175/JCLI-D-19-0853.1>
- Piecuch, C. G. and R. Wadehra, 2020: Dynamic Sea Level Variability Due to Seasonal River Discharge: A Preliminary Global Ocean Model Study. *Geophysical Research Letters*, **47**, e2020GL086984, <https://doi.org/10.1029/2020GL086984>
- Pinker, R. T., A. Bentamy, S. A. Grodsky, and W. Chen, 2020: Annual and seasonal variability of net heat flux in the Northern Indian Ocean. *International Journal of Remote Sensing*, **41**, 6461-6483, <https://doi.org/10.1080/01431161.2020.1746858>
- Pisano, A., S. Marullo, V. Artale, F. Falcini, C. Yang, F. E. Leonelli, R. Santoleri, and B. Buongiorno Nardelli, 2020: New Evidence of Mediterranean Climate Change and Variability from Sea Surface Temperature Observations. *Remote Sensing*, **12**, 132, <https://doi.org/10.3390/rs12010132>
- Pollmann, F., 2020: Global Characterization of the Ocean's Internal Wave Spectrum. *Journal of Physical Oceanography*, **50**, 1871-1891, <https://doi.org/10.1175/JPO-D-19-0185.1>
- Polonskii, A. B. and A. M. Novikova, 2020: Interdecadal Variability of the Black Sea Cold Intermediate Layer and Its Causes. *Russian Meteorology and Hydrology*, **45**, 694-700, <https://doi.org/10.3103/S1068373920100039>
- Portela, E., N. Kolodziejczyk, C. Maes, and V. Thierry, 2020: Interior Water-Mass Variability in the Southern Hemisphere Oceans during the Last Decade. *Journal of Physical Oceanography*, **50**, 361-381, <https://doi.org/10.1175/JPO-D-19-0128.1>
- Portela, E., N. Kolodziejczyk, C. Vic, and V. Thierry, 2020: Physical Mechanisms Driving Oxygen Subduction in the Global Ocean. *Geophysical Research Letters*, **47**, e2020GL089040, <https://doi.org/10.1029/2020GL089040>
- Prakash, P., S. Prakash, M. Ravichandran, T. V. S. U. Bhaskar, and N. A. Kumar, 2020: Seasonal evolution of chlorophyll in the Indian sector of the Southern Ocean: Analyses of Bio-Argo measurements. *Deep Sea Research Part II: Topical Studies in Oceanography*, **178**, 104791, <https://doi.org/10.1016/j.dsr2.2020.104791>
- Pramanik, S., S. Sil, A. Gangopadhyay, M. K. Singh, and N. Behera, 2020: Interannual variability of the Chlorophyll-a concentration over Sri Lankan Dome in the Bay of Bengal. *International Journal of Remote Sensing*, **41**, 5974-5991, <https://doi.org/10.1080/01431161.2020.1727057>
- Prants, S. V., M. V. Budyansky, V. B. Lobanov, A. F. Sergeev, and M. Y. Uleysky, 2020: Observation and Lagrangian Analysis of Quasi-Stationary Kamchatka Trench Eddies. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016187, <https://doi.org/10.1029/2020JC016187>
- Pujiana, K. and M. J. McPhaden, 2020: Intraseasonal Kelvin Waves in the Equatorial Indian Ocean and Their Propagation into the Indonesian Seas. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015839, <https://doi.org/10.1029/2019JC015839>
- Qi, J., T. Qu, B. Yin, and J. Chi, 2020: Variability of the South Pacific Western Subtropical Mode Water and Its Relationship With ENSO During the Argo Period. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016134,

- <https://doi.org/10.1029/2020JC016134>
- Qi, Y., C. Shang, H. Mao, C. Qiu, C. Liang, L. Yu, J. Yu, and X. Shang, 2020: Spatial structure of turbulent mixing of an anticyclonic mesoscale eddy in the northern South China Sea. *Acta Oceanologica Sinica*, **39**, 69-81, <https://doi.org/10.1007/s13131-020-1676-z>
- Qu, B., A. J. Gabric, L. Jiang, and C. Li, 2020: Comparison Between Early and Late 21stC Phytoplankton Biomass and Dimethylsulfide Flux in the Subantarctic Southern Ocean. *Journal of Ocean University of China*, **19**, 151-160, <https://doi.org/10.1007/s11802-020-4235-5>
- Qu, B., G.-P. Yang, L.-Y. Guo, and L. Zhao, 2020: The satellite derived environmental factors and their relationships with dimethylsulfide in the East Marginal Seas of China. *Journal of Marine Systems*, **204**, 103305, <https://doi.org/10.1016/j.jmarsys.2020.103305>
- Qu, T., S. Gao, and R. A. Fine, 2020: Variability of the Sub-Antarctic Mode Water Subduction Rate During the Argo Period. *Geophysical Research Letters*, **47**, e2020GL088248, <https://doi.org/10.1029/2020GL088248>
- Quay, P., S. Emerson, and H. Palevsky, 2020: Regional Pattern of the Ocean's Biological Pump Based on Geochemical Observations. *Geophysical Research Letters*, **47**, e2020GL088098, <https://doi.org/10.1029/2020GL088098>
- Rahaman, H., U. Srinivasu, S. Panickal, J. V. Durgadoo, S. M. Griffies, M. Ravichandran, A. Bozec, A. Cherchi, A. Voldoire, D. Sidorenko, E. P. Chassignet, G. Danabasoglu, H. Tsujino, K. Getzlaff, M. Ilicak, M. Bentsen, M. C. Long, P. G. Fogli, R. Farneti, S. Danilov, S. J. Marsland, S. Valcke, S. G. Yeager, and Q. Wang, 2020: An assessment of the Indian Ocean mean state and seasonal cycle in a suite of interannual CORE-II simulations. *Ocean Modelling*, **145**, 101503, <https://doi.org/10.1016/j.ocemod.2019.101503>
- Raj, R. P., O. B. Andersen, J. A. Johannessen, B. D. Gutknecht, S. Chatterjee, S. K. Rose, A. Bonaduce, M. Horwath, H. Rannald, K. Richter, H. Palanisamy, C. A. Ludwigen, L. Bertino, J. E. Ø. Nilsen, P. Knudsen, A. Hogg, A. Cazenave, and J. Benveniste, 2020: Arctic Sea Level Budget Assessment during the GRACE/Argo Time Period. *Remote Sensing*, **12**, 2837, <https://doi.org/10.3390/rs12172837>
- Raj, R. P., I. Halo, S. Chatterjee, T. Belonenko, M. Bakhoday-Paskyabi, I. Bashmachnikov, A. Fedorov, and J. Xie, 2020: Interaction Between Mesoscale Eddies and the Gyre Circulation in the Lofoten Basin. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016102, <https://doi.org/10.1029/2020JC016102>
- Rajesh, P. V. and B. N. Goswami, 2020: Four-dimensional structure and sub-seasonal regulation of the Indian summer monsoon multi-decadal mode. *Climate Dynamics*, **55**, 2645-2666, <https://doi.org/10.1007/s00382-020-05407-y>
- Rak, D., W. Walczowski, L. Dzierzbicka-Głowacka, and S. Shchuka, 2020: Dissolved oxygen variability in the southern Baltic Sea in 2013–2018. *Oceanologia*, **62**, 525-537, <https://doi.org/10.1016/j.oceano.2020.08.005>
- Ramos-Musalem, K. and S. E. Allen, 2020: The Impact of Initial Tracer Profile on the Exchange and On-Shelf Distribution of Tracers Induced by a Submarine Canyon. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015785, <https://doi.org/10.1029/2019JC015785>

- Randelhoff, A., J. Holding, M. Janout, M. K. Sejr, M. Babin, J.-É. Tremblay, and M. B. Alkire, 2020: Pan-Arctic Ocean Primary Production Constrained by Turbulent Nitrate Fluxes. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.00150>
- Randelhoff, A., L. Lacour, C. Marec, E. Leymarie, J. Lagunas, X. Xing, G. Darnis, C. Penkerch, M. Sampei, L. Fortier, F. D'Ortenzio, H. Claustre, and M. Babin, 2020: Arctic mid-winter phytoplankton growth revealed by autonomous profilers. *Science Advances*, **6**, eabc2678, <https://doi.org/10.1126/sciadv.abc2678>
- Rasse, R., H. Claustre, and A. Poteau, 2020: The suspended small-particle layer in the oxygen-poor Black Sea: a proxy for delineating the effective N₂-yielding section. *Biogeosciences*, **17**, 6491-6505, <https://doi.org/10.5194/bg-17-6491-2020>
- Rathore, S., N. L. Bindoff, H. E. Phillips, and M. Feng, 2020: Recent hemispheric asymmetry in global ocean warming induced by climate change and internal variability. *Nature Communications*, **11**, 2008, <https://doi.org/10.1038/s41467-020-15754-3>
- Receveur, A., E. Kestenare, V. Allain, F. Ménard, S. Cravatte, A. Lebourges-Dhaussy, P. Lehodey, M. Mangeas, N. Smith, M.-H. Radenac, and C. Menkes, 2020: Micronekton distribution in the southwest Pacific (New Caledonia) inferred from shipboard-ADCP backscatter data. *Deep Sea Research Part I: Oceanographic Research Papers*, **159**, 103237, <https://doi.org/10.1016/j.dsr.2020.103237>
- Reid, R., S. Good, and M. J. Martin, 2020: Use of Uncertainty Inflation in OSTIA to Account for Correlated Errors in Satellite-Retrieved Sea Surface Temperature Data. *Remote Sensing*, **12**, <https://doi.org/10.3390/rs12071083>
- Reul, N., S. A. Grodsky, M. Arias, J. Boutin, R. Catany, B. Chapron, F. D'Amico, E. Dinnat, C. Donlon, A. Fore, S. Fournier, S. Guimard, A. Hasson, N. Kolodziejczyk, G. Lagerloef, T. Lee, D. M. Le Vine, E. Lindstrom, C. Maes, S. Mecklenburg, T. Meissner, E. Olmedo, R. Sabia, J. Tenerelli, C. Thouvenin-Masson, A. Turiel, J. L. Vergely, N. Vinogradova, F. Wentz, and S. Yueh, 2020: Sea surface salinity estimates from spaceborne L-band radiometers: An overview of the first decade of observation (2010–2019). *Remote Sensing of Environment*, **242**, 111769, <https://doi.org/10.1016/j.rse.2020.111769>
- Richardson, L. E., J. F. Middleton, N. P. James, T. K. Kyser, and B. N. Opdyke, 2020: Upwelling characteristics and nutrient enrichment of the Kangaroo Island upwelling region, South Australia. *Continental Shelf Research*, **200**, 104111, <https://doi.org/10.1016/j.csr.2020.104111>
- Ridge, S. M. and G. A. McKinley, 2020: Advective Controls on the North Atlantic Anthropogenic Carbon Sink. *Global Biogeochemical Cycles*, **34**, e2019GB006457, <https://doi.org/10.1029/2019GB006457>
- Roberts, M. J., L. C. Jackson, C. D. Roberts, V. Meccia, D. Docquier, T. Koenigk, P. Ortega, E. Moreno-Chamarro, A. Bellucci, A. Coward, S. Drijfhout, E. Exarchou, O. Gutjahr, H. Hewitt, D. Iovino, K. Lohmann, D. Putrasahan, R. Schiemann, J. Seddon, L. Terray, X. Xu, Q. Zhang, P. Chang, S. G. Yeager, F. S. Castruccio, S. Zhang, and L. Wu, 2020: Sensitivity of the Atlantic Meridional Overturning Circulation to Model Resolution in CMIP6 HighResMIP Simulations and Implications for Future Changes. *Journal of Advances in Modeling Earth Systems*, **12**, e2019MS002014, <https://doi.org/10.1029/2019MS002014>
- Robson, J., Y. Aksenov, T. J. Bracegirdle, O. Dimdore-Miles, P. T. Griffiths, D. P. Grosvenor, D.

- L. R. Hodson, J. Keeble, C. MacIntosh, A. Megann, S. Osprey, A. C. Povey, D. Schröder, M. Yang, A. T. Archibald, K. S. Carslaw, L. Gray, C. Jones, B. Kerridge, D. Knappett, T. Kuhlbrodt, M. Russo, A. Sellar, R. Siddans, B. Sinha, R. Sutton, J. Walton, and L. J. Wilcox, 2020: The Evaluation of the North Atlantic Climate System in UKESM1 Historical Simulations for CMIP6. *Journal of Advances in Modeling Earth Systems*, **12**, e2020MS002126, <https://doi.org/10.1029/2020MS002126>
- Roman-Stork, H. L., B. Subrahmanyam, and V. S. N. Murty, 2020: The Role of Salinity in the Southeastern Arabian Sea in Determining Monsoon Onset and Strength. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015592, <https://doi.org/10.1029/2019JC015592>
- Ronge, T. A., D. Nürnberg, and R. Tiedemann, 2020: Plio-Pleistocene Variability of the East Pacific Thermocline and Atmospheric Systems. *Paleoceanography and Paleoclimatology*, **35**, e2019PA003758, <https://doi.org/10.1029/2019PA003758>
- Rosso, I., M. R. Mazloff, L. D. Talley, S. G. Purkey, N. M. Freeman, and G. Maze, 2020: Water Mass and Biogeochemical Variability in the Kerguelen Sector of the Southern Ocean: A Machine Learning Approach for a Mixing Hot Spot. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015877, <https://doi.org/10.1029/2019JC015877>
- Rousselet, L., P. Cessi, and G. Forget, 2020: Routes of the Upper Branch of the Atlantic Meridional Overturning Circulation according to an Ocean State Estimate. *Geophysical Research Letters*, **47**, e2020GL089137, <https://doi.org/10.1029/2020GL089137>
- Royston, S., B. Dutt Vishwakarma, R. Westaway, J. Rougier, Z. Sha, and J. Bamber, 2020: Can We Resolve the Basin-Scale Sea Level Trend Budget From GRACE Ocean Mass? *Journal of Geophysical Research: Oceans*, **125**, e2019JC015535, <https://doi.org/10.1029/2019JC015535>
- Rudzin, J. E., S. Chen, E. R. Sanabia, and S. R. Jayne, 2020: The Air-Sea Response During Hurricane Irma's (2017) Rapid Intensification Over the Amazon-Orinoco River Plume as Measured by Atmospheric and Oceanic Observations. *Journal of Geophysical Research: Atmospheres*, **125**, e2019JD032368, <https://doi.org/10.1029/2019JD032368>
- Ruhl, H. A., F. L. Bahr, S. A. Henson, W. B. Hosking, B. Espinola, M. Kahru, P. Daniel, P. Drake, and C. A. Edwards, 2020: Understanding the remote influences of ocean weather on the episodic pulses of particulate organic carbon flux. *Deep Sea Research Part II: Topical Studies in Oceanography*, **173**, 104741, <https://doi.org/10.1016/j.dsr2.2020.104741>
- Ruiz-Etcheverry, L. A. and M. Saraceno, 2020: Sea Level Trend and Fronts in the South Atlantic Ocean. *Geosciences*, **10**, <https://doi.org/10.3390/geosciences10060218>
- Ruma, S. and C. Shaji, 2020: Seasonal variability and long-term trends of the surface and subsurface circulation features in the Equatorial Indian Ocean. *Environmental Monitoring and Assessment*, **191**, 810, <https://doi.org/10.1007/s10661-019-7707-6>
- Sabu, P., S. A. Libera, R. Chacko, N. Anilkumar, M. P. Subeesh, and A. P. Thomas, 2020: Winter water variability in the Indian Ocean sector of Southern Ocean during austral summer. *Deep Sea Research Part II: Topical Studies in Oceanography*, **178**, 104852, <https://doi.org/10.1016/j.dsr2.2020.104852>
- Salinger, M. J., H. J. Diamond, E. Behrens, D. Fernandez, B. B. Fitzharris, N. Herold, P.

- Johnstone, H. Kerckhoffs, A. B. Mullan, A. K. Parker, J. Renwick, C. Scofield, A. Siano, R. O. Smith, P. M. South, P. J. Sutton, E. Teixeira, M. S. Thomsen, and M. C. T. Trought, 2020: Unparalleled coupled ocean-atmosphere summer heatwaves in the New Zealand region: drivers, mechanisms and impacts. *Climatic Change*, **162**, 485-506, <https://doi.org/10.1007/s10584-020-02730-5>
- Sanchez, S. C., N. Westphal, G. H. Haug, H. Cheng, R. L. Edwards, T. Schneider, K. M. Cobb, and C. D. Charles, 2020: A Continuous Record of Central Tropical Pacific Climate Since the Midnineteenth Century Reconstructed From Fanning and Palmyra Island Corals: A Case Study in Coral Data Reanalysis. *Paleoceanography and Paleoclimatology*, **35**, e2020PA003848, <https://doi.org/10.1029/2020PA003848>
- Sandalyuk, N. V., A. Bosse, and T. V. Belonenko, 2020: The 3-D Structure of Mesoscale Eddies in the Lofoten Basin of the Norwegian Sea: A Composite Analysis From Altimetry and In Situ Data. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016331, <https://doi.org/10.1029/2020JC016331>
- Sandery, P. A., T. J. O'Kane, V. Kitsios, and P. Sakov, 2020: Climate Model State Estimation Using Variants of EnKF Coupled Data Assimilation. *Monthly Weather Review*, **148**, 2411-2431, <https://doi.org/10.1175/MWR-D-18-0443.1>
- Santana, R., F. B. Costa, D. Mignac, A. N. Santana, V. F. d. S. Vidal, J. Zhu, and C. A. S. Tanajura, 2020: Model sensitivity experiments on data assimilation, downscaling and tides for the representation of the Cape São Tomé Eddies. *Ocean Dynamics*, **70**, 77-94, <https://doi.org/10.1007/s10236-019-01307-w>
- Sari, Q. W., P. A. Utari, D. Setiabudidaya, I. Yustian, E. Siswanto, and I. Iskandar, 2020: Surface chlorophyll-a variations in the Southeastern Tropical Indian Ocean during various types of the positive Indian Ocean Dipole events. *International Journal of Remote Sensing*, **41**, 171-184, <https://doi.org/10.1080/01431161.2019.1637962>
- Sarma, V. V. S. S., T. V. S. U. Bhaskar, J. P. Kumar, and K. Chakraborty, 2020: Potential mechanisms responsible for occurrence of core oxygen minimum zone in the north-eastern Arabian Sea. *Deep Sea Research Part I: Oceanographic Research Papers*, **165**, 103393, <https://doi.org/10.1016/j.dsr.2020.103393>
- Sasaki, H., B. Qiu, P. Klein, Y. Sasai, and M. Nonaka, 2020: Interannual to Decadal Variations of Submesoscale Motions around the North Pacific Subtropical Countercurrent. *Fluids*, **5**, 116, <https://doi.org/10.3390/fluids5030116>
- Saux Picart, S., A. Marsouin, G. Legendre, H. Roquet, S. Péré, N. Nano-Ascione, and T. Gianelli, 2020: A Sea Surface Temperature data record (2004–2012) from Meteosat Second Generation satellites. *Remote Sensing of Environment*, **240**, 111687, <https://doi.org/10.1016/j.rse.2020.111687>
- Sauzède, R., E. Martinez, C. Maes, O. Pasqueron de Fommervault, A. Poteau, A. Mignot, H. Claustre, J. Uitz, L. Oziel, K. Maamaatuaiahutapu, M. Rodier, C. Schmechtig, and V. Laurent, 2020: Enhancement of phytoplankton biomass leeward of Tahiti as observed by Biogeochemical-Argo floats. *Journal of Marine Systems*, **204**, 103284, <https://doi.org/10.1016/j.jmarsys.2019.103284>
- Scannell, H. A., G. C. Johnson, L. Thompson, J. M. Lyman, and S. C. Riser, 2020: Subsurface Evolution and Persistence of Marine Heatwaves in the Northeast Pacific. *Geophysical Research Letters*, **47**, e2020GL090548, <https://doi.org/10.1029/2020GL090548>

- Schaeffer, A., M. R. Archer, Q. Baumard, M. Roughan, and C. Kerry, 2020: An assessment of the East Australian Current as a renewable energy resource. *Journal of Marine Systems*, **204**, 103285, <https://doi.org/10.1016/j.jmarsys.2019.103285>
- Schiller, A., G. B. Brassington, P. Oke, M. Cahill, P. Divakaran, M. Entel, J. Freeman, D. Griffin, M. Herzfeld, R. Hoeke, X. Huang, E. Jones, E. King, B. Parker, T. Pitman, U. Rosebrock, J. Sweeney, A. Taylor, M. Thatcher, R. Woodham, and A. Zhong, 2020: Bluelink ocean forecasting Australia: 15 years of operational ocean service delivery with societal, economic and environmental benefits. *Journal of Operational Oceanography*, **13**, 1-18, <https://doi.org/10.1080/1755876X.2019.1685834>
- Schmidt, H., R. Czeschel, and M. Visbeck, 2020: Seasonal variability of the Arabian Sea intermediate circulation and its impact on seasonal changes of the upper oxygen minimum zone. *Ocean Sci.*, **16**, 1459-1474, <https://doi.org/10.5194/os-16-1459-2020>
- Séférian, R., S. Berthet, A. Yool, J. Palmiéri, L. Bopp, A. Tagliabue, L. Kwiatkowski, O. Aumont, J. Christian, J. Dunne, M. Gehlen, T. Ilyina, J. G. John, H. Li, M. C. Long, J. Y. Luo, H. Nakano, A. Romanou, J. Schwinger, C. Stock, Y. Santana-Falcón, Y. Takano, J. Tjiputra, H. Tsujino, M. Watanabe, T. Wu, F. Wu, and A. Yamamoto, 2020: Tracking Improvement in Simulated Marine Biogeochemistry Between CMIP5 and CMIP6. *Current Climate Change Reports*, **6**, 95-119, <https://doi.org/10.1007/s40641-020-00160-0>
- Sen, R., S. Pandey, S. Dandapat, P. A. Francis, and A. Chakraborty, 2020: A numerical study on seasonal transport variability of the North Indian Ocean boundary currents using Regional Ocean Modeling System (ROMS). *Journal of Operational Oceanography*, 1-20, <https://doi.org/10.1080/1755876X.2020.1846266>
- Seo, S., Y.-G. Park, and K. Kim, 2020: Tracking flood debris using satellite-derived ocean color and particle-tracking modeling. *Marine Pollution Bulletin*, **161**, 111828, <https://www.sciencedirect.com/science/article/pii/S0025326X20309462>
- Sérazin, G., F. Marin, L. Gourdeau, S. Cravatte, R. Morrow, and M. L. Dabat, 2020: Scale-dependent analysis of in situ observations in the mesoscale to submesoscale range around New Caledonia. *Ocean Sci.*, **16**, 907-925, <https://doi.org/10.5194/os-16-907-2020>
- Sergi, S., A. Baudena, C. Cotté, M. Ardyna, S. Blain, and F. d'Ovidio, 2020: Interaction of the Antarctic Circumpolar Current With Seamounts Fuels Moderate Blooms but Vast Foraging Grounds for Multiple Marine Predators. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.00416>
- Shen, J., N. Jiao, M. Dai, H. Wang, G. Qiu, J. Chen, H. Li, S.-J. Kao, J.-Y. T. Yang, P. Cai, K. Zhou, W. Yang, Y. Zhu, Z. Liu, M. Chen, Z. Zuo, B. Gaye, M. G. Wiesner, and Y. Zhang, 2020: Laterally Transported Particles From Margins Serve as a Major Carbon and Energy Source for Dark Ocean Ecosystems. *Geophysical Research Letters*, **47**, e2020GL088971, <https://doi.org/10.1029/2020GL088971>
- Shi, H., X. He, Y. Wu, and J. Huang, 2020: The parameterization of mean dynamic topography based on the Lagrange basis functions. *Advances in Space Research*, **66**, 2122-2140, <https://doi.org/10.1016/j.asr.2020.07.042>
- Shi, H. Y., L. Du, and D. H. Xu, 2020: The robust salinity anomaly event during 2015–2017 in the tropical Pacific Ocean. *Haiyang Xuebao*, **42**, 47-58,

- Shi, J., Z. Chen, S. Ding, and Y. Lu, 2020: A Hot Blob Eastward of New Zealand in December 2019. *Atmosphere*, **11**, <https://doi.org/10.3390/atmos11121267>
- Shi, J.-R., L. D. Talley, S.-P. Xie, W. Liu, and S. T. Gille, 2020: Effects of Buoyancy and Wind Forcing on Southern Ocean Climate Change. *Journal of Climate*, **33**, 10003-10020, <https://doi.org/10.1175/JCLI-D-19-0877.1>
- Shimura, T., M. Hemer, A. Lenton, M. A. Chamberlain, and D. Monselesan, 2020: Impacts of Ocean Wave-Dependent Momentum Flux on Global Ocean Climate. *Geophysical Research Letters*, **47**, e2020GL089296, <https://doi.org/10.1029/2020GL089296>
- Shroyer, E. L., A. L. Gordon, G. S. Jaeger, M. Freilich, A. F. Waterhouse, J. T. Farrar, V. V. S. S. Sarma, R. Venkatesan, R. A. Weller, J. N. Moum, and A. Mahadevan, 2020: Upper layer thermohaline structure of the Bay of Bengal during the 2013 northeast monsoon. *Deep Sea Research Part II: Topical Studies in Oceanography*, **172**, 104630, <https://doi.org/10.1016/j.dsr2.2019.07.018>
- Shulman, I., M. A. Moline, J. H. Cohen, S. Anderson, E. J. Metzger, and C. Rowley, 2020: Bioluminescence potential modeling during polar night in the Arctic: impact of advection versus local sources. *Ocean Dynamics*, **70**, 1211-1223, <https://doi.org/10.1007/s10236-020-01392-2>
- Siegismund, F., A. Köhl, R. Rummel, and D. Stammer, 2020: Temporal Variations of the Marine Geoid. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016433, <https://doi.org/10.1029/2020JC016433>
- Silvano, A., A. Foppert, S. R. Rintoul, P. R. Holland, T. Tamura, N. Kimura, P. Castagno, P. Falco, G. Budillon, F. A. Haumann, A. C. Naveira Garabato, and A. M. Macdonald, 2020: Recent recovery of Antarctic Bottom Water formation in the Ross Sea driven by climate anomalies. *Nature Geoscience*, **13**, 780-786, <https://doi.org/10.1038/s41561-020-00655-3>
- Siripatana, A., C. Kerry, M. Roughan, J. M. A. C. Souza, and S. Keating, 2020: Assessing the Impact of Nontraditional Ocean Observations for Prediction of the East Australian Current. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016580, <https://doi.org/10.1029/2020JC016580>
- Siswanto, E., T. Horii, I. Iskandar, J. L. Gaol, R. Y. Setiawan, and R. D. Susanto, 2020: Impacts of climate changes on the phytoplankton biomass of the Indonesian Maritime Continent. *Journal of Marine Systems*, **212**, 103451, <https://doi.org/10.1016/j.jmarsys.2020.103451>
- Skliris, N., R. Marsh, J. V. Mecking, and J. D. Zika, 2020: Changing water cycle and freshwater transports in the Atlantic Ocean in observations and CMIP5 models. *Climate Dynamics*, **54**, 4971-4989, <https://doi.org/10.1007/s00382-020-05261-y>
- Smilenova, A., J. Gula, M. Le Corre, L. Houpert, and Y. Reecht, 2020: A Persistent Deep Anticyclonic Vortex in the Rockall Trough Sustained by Anticyclonic Vortices Shed From the Slope Current and Wintertime Convection. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015905, <https://doi.org/10.1029/2019JC015905>
- Solodoch, A., J. C. McWilliams, A. L. Stewart, J. Gula, and L. Renault, 2020: Why Does the Deep Western Boundary Current "Leak" around Flemish Cap? *Journal of Physical Oceanography*, **50**, 1989-2016, <https://doi.org/10.1175/JPO-D-19-0247.1>
- Song, X., Y. Guo, Y. Chang, F. Zhang, J. Tan, J. Yang, and X. Shi, 2020: A Hybrid

- Recommendation System for Marine Science Observation Data Based on Content and Literature Filtering. *Sensors*, **20**, <https://doi.org/10.3390/s20226414>
- Sree Lekha, J., A. J. Lucas, J. Sukhatme, J. K. Joseph, M. Ravichandran, N. Suresh Kumar, J. T. Farrar, and D. Sengupta, 2020: Quasi-Biweekly Mode of the Asian Summer Monsoon Revealed in Bay of Bengal Surface Observations. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016271, <https://doi.org/10.1029/2020JC016271>
- Sridevi, B. and V. V. S. S. Sarma, 2020: A revisit to the regulation of oxygen minimum zone in the Bay of Bengal. *Journal of Earth System Science*, **129**, 107, <https://doi.org/10.1007/s12040-020-1376-2>
- Stendardo, I., M. Rhein, and R. Steinfeldt, 2020: The North Atlantic Current and its Volume and Freshwater Transports in the Subpolar North Atlantic, Time Period 1993–2016. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016065, <https://doi.org/10.1029/2020JC016065>
- Sterl, M. F., P. Delandmeter, and E. van Sebille, 2020: Influence of Barotropic Tidal Currents on Transport and Accumulation of Floating Microplastics in the Global Open Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015583, <https://doi.org/10.1029/2019JC015583>
- Stevens, S. W., R. J. Johnson, G. Maze, and N. R. Bates, 2020: A recent decline in North Atlantic subtropical mode water formation. *Nature Climate Change*, <https://doi.org/10.1038/s41558-020-0722-3>
- Storlazzi, C. D., O. M. Cheriton, R. van Hooidek, Z. Zhao, and R. Brainard, 2020: Internal tides can provide thermal refugia that will buffer some coral reefs from future global warming. *Scientific Reports*, **10**, 13435, <https://doi.org/10.1038/s41598-020-70372-9>
- Su, H., H. Zhang, X. Geng, T. Qin, W. Lu, and X.-H. Yan, 2020: OPEN: A New Estimation of Global Ocean Heat Content for Upper 2000 Meters from Remote Sensing Data. *Remote Sensing*, **12**, 2294, <https://doi.org/10.3390/rs12142294>
- Sugimoto, S., B. Qiu, and A. Kojima, 2020: Marked coastal warming off Tokai attributable to Kuroshio large meander. *Journal of Oceanography*, **76**, 141-154, <https://doi.org/10.1007/s10872-019-00531-8>
- Sugiura, N. and S. Hosoda, 2020: Machine Learning Technique Using the Signature Method for Automated Quality Control of Argo Profiles. *Earth and Space Science*, **7**, e2019EA001019, <https://doi.org/10.1029/2019EA001019>
- Sugiura, N., S. Kouketsu, S. Masuda, S. Osafune, and I. Yasuda, 2020: Estimating the population mean for a vertical profile of energy dissipation rate. *Scientific Reports*, **10**, 20414, <https://doi.org/10.1038/s41598-020-77414-2>
- Sukhatme, J., D. Chaudhuri, J. MacKinnon, S. Shivaprasad, and D. Sengupta, 2020: Near-Surface Ocean Kinetic Energy Spectra and Small-Scale Intermittency from Ship-Based ADCP Data in the Bay of Bengal. *Journal of Physical Oceanography*, **50**, 2037-2052, <https://doi.org/10.1175/JPO-D-20-0065.1>
- Sulpis, O., S. K. Lauvset, and M. Hagens, 2020: Current estimates of K1* and K2* appear inconsistent with measured CO2 system parameters in cold oceanic regions. *Ocean Sci.*, **16**, 847-862, <https://doi.org/10.5194/os-16-847-2020>
- Sun, Y., W. Perrie, F. Qiao, and G. Wang, 2020: Intercomparisons of High-Resolution Global Ocean Analyses: Evaluation of A New Synthesis in Tropical Oceans. *Journal of*

- Geophysical Research: Oceans*, **125**, e2020JC016118,
<https://doi.org/10.1029/2020JC016118>
- Supply, A., J. Boutin, J.-L. Vergely, N. Kolodziejczyk, G. Reverdin, N. Reul, and A. Tarasenko, 2020: New insights into SMOS sea surface salinity retrievals in the Arctic Ocean. *Remote Sensing of Environment*, **249**, 112027,
<https://doi.org/10.1016/j.rse.2020.112027>
- Tagklis, F., A. Bracco, T. Ito, and R. M. Castelao, 2020: Submesoscale modulation of deep water formation in the Labrador Sea. *Scientific Reports*, **10**, 17489,
<https://doi.org/10.1038/s41598-020-74345-w>
- Taillandier, V., L. Prieur, F. D'Ortenzio, M. Ribera d'Alcalà, and E. Pulido-Villena, 2020: Profiling float observation of thermohaline staircases in the western Mediterranean Sea and impact on nutrient fluxes. *Biogeosciences*, **17**, 3343-3366,
<https://doi.org/10.5194/bg-17-3343-2020>
- Tamsitt, V., I. Cerovečki, S. A. Josey, S. T. Gille, and E. Schulz, 2020: Mooring Observations of Air–Sea Heat Fluxes in Two Subantarctic Mode Water Formation Regions. *Journal of Climate*, **33**, 2757-2777, <https://doi.org/10.1175/JCLI-D-19-0653.1>
- Tanajura, C. A. S., D. Mignac, A. N. de Santana, F. B. Costa, L. N. Lima, K. P. Belyaev, and J. Zhu, 2020: Observing system experiments over the Atlantic Ocean with the REMO ocean data assimilation system (RODAS) into HYCOM. *Ocean Dynamics*, **70**, 115-138, <https://doi.org/10.1007/s10236-019-01309-8>
- Tandon, N. F., O. A. Saenko, M. A. Cane, and P. J. Kushner, 2020: Interannual Variability of the Global Meridional Overturning Circulation Dominated by Pacific Variability. *Journal of Physical Oceanography*, **50**, 559-574,
<https://doi.org/10.1175/JPO-D-19-0129.1>
- Tang, L., J. Li, J. Chen, S.-Y. Wang, R. Wang, and X. Hu, 2020: Seismic Impact of Large Earthquakes on Estimating Global Mean Ocean Mass Change from GRACE. *Remote Sensing*, **12**, <https://doi.org/10.3390/rs12060935>
- Tchilibou, M., L. Gourdeau, F. Lyard, R. Morrow, A. Koch Larrouy, D. Allain, and B. Djath, 2020: Internal tides in the Solomon Sea in contrasted ENSO conditions. *Ocean Sci.*, **16**, 615-635, <https://doi.org/10.5194/os-16-615-2020>
- Tejas, D. M., C. Gnanaseelan, A. K. Rashmi, and J. S. Deepa, 2020: Indian Ocean Warming Trends and Forcing Mechanism with Emphasis on Northeastern Tropical Indian Ocean. *Journal of Coastal Research*, **89**, 15-19, 5, <https://doi.org/10.2112/SI89-003.1>
- Terrats, L., H. Claustre, M. Cornec, A. Mangin, and G. Neukermans, 2020: Detection of Coccolithophore Blooms With BioGeoChemical-Argo Floats. *Geophysical Research Letters*, **47**, e2020GL090559, <https://doi.org/10.1029/2020GL090559>
- Tesdal, J.-E. and T. W. N. Haine, 2020: Dominant Terms in the Freshwater and Heat Budgets of the Subpolar North Atlantic Ocean and Nordic Seas From 1992 to 2015. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016435,
<https://doi.org/10.1029/2020JC016435>
- Thandlam, V., U. B. T.V.S, R. Hasibur, P. D. Luca, E. Sahlée, A. Rutgersson, R. M, and R. S.S.V.S, 2020: A sea-level monopole in the equatorial Indian Ocean. *npj Climate and Atmospheric Science*, **3**, 25, <https://doi.org/10.1038/s41612-020-0127-z>
- Thomas, G., S. G. Purkey, D. Roemmich, A. Foppert, and S. R. Rintoul, 2020: Spatial Variability

- of Antarctic Bottom Water in the Australian Antarctic Basin From 2018–2020 Captured by Deep Argo. *Geophysical Research Letters*, **47**, e2020GL089467, <https://doi.org/10.1029/2020GL089467>
- Thompson, P. R., M. J. Widlansky, E. Leuliette, W. Sweet, D. P. Chambers, B. D. Hamlington, S. Jevrejeva, J. J. Marra, M. A. Merrifield, G. T. Mitchum, and R. S. Nerem, 2020: Sea level variability and change in the State of the Climate in 2019. *Bull. Am. Meteorol. Soc.*, **101**, <https://doi.org/10.1175/2020BAMSStateoftheClimate.1>
- Thushara, V. and P. N. Vinayachandran, 2020: Unprecedented Surface Chlorophyll Blooms in the Southeastern Arabian Sea During an Extreme Negative Indian Ocean Dipole. *Geophysical Research Letters*, **47**, e2019GL085026, <https://doi.org/10.1029/2019GL085026>
- Travis, S. and B. Qiu, 2020: Seasonal Reversal of the Near-Surface Chlorophyll Response to the Presence of Mesoscale Eddies in the South Pacific Subtropical Countercurrent. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015752, <https://doi.org/10.1029/2019JC015752>
- Trenberth, K. E., 2020: Understanding climate change through Earth's energy flows. *Journal of the Royal Society of New Zealand*, **50**, 331-347, <https://doi.org/10.1080/03036758.2020.1741404>
- Tu, Q., and Z. Hao (2020), Validation of Sea Surface Temperature Derived From Himawari-8 by JAXA, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **13**, 448-459, doi: <https://doi.org/10.1109/JSTARS.2019.2963773>.
- Tuchen, F. P., J. F. Lübbecke, P. Brandt, and Y. Fu, 2020: Observed Transport Variability of the Atlantic Subtropical Cells and Their Connection to Tropical Sea Surface Temperature Variability. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016592, <https://doi.org/10.1029/2020JC016592>
- Tucker, T., D. Giglio, M. Scanderbeg, and S. S. P. Shen, 2020: Argovis: A Web Application for Fast Delivery, Visualization, and Analysis of Argo Data. *Journal of Atmospheric and Oceanic Technology*, **37**, 401-416, <https://doi.org/10.1175/JTECH-D-19-0041.1>
- Turner, J., M. V. Guarino, J. Arnatt, B. Jena, G. J. Marshall, T. Phillips, C. C. Bajish, K. Clem, Z. Wang, T. Andersson, E. J. Murphy, and R. Cavanagh, 2020: Recent Decrease of Summer Sea Ice in the Weddell Sea, Antarctica. *Geophysical Research Letters*, **47**, e2020GL087127, <https://doi.org/10.1029/2020GL087127>
- Ummenhofer, C. C., S. Ryan, M. H. England, M. Scheinert, P. Wagner, A. Biastoch, and C. W. Böning, 2020: Late 20th Century Indian Ocean Heat Content Gain Masked by Wind Forcing. *Geophysical Research Letters*, **47**, e2020GL088692, <https://doi.org/10.1029/2020GL088692>
- Varlas, G., V. Vervatis, C. Spyrou, E. Papadopoulou, A. Papadopoulos, and P. Katsafados, 2020: Investigating the impact of atmosphere–wave–ocean interactions on a Mediterranean tropical-like cyclone. *Ocean Modelling*, **153**, 101675, <https://doi.org/10.1016/j.ocemod.2020.101675>
- Vidya, P. J., M. Ravichandran, M. P. Subeesh, S. Chatterjee, and N. M., 2020: Global warming hiatus contributed weakening of the Mascarene High in the Southern Indian Ocean. *Scientific Reports*, **10**, 3255, <https://doi.org/10.1038/s41598-020-59964-7>
- Vishwakarma, B. D., S. Royston, R. E. M. Riva, R. M. Westaway, and J. L. Bamber, 2020: Sea

- Level Budgets Should Account for Ocean Bottom Deformation. *Geophysical Research Letters*, **47**, e2019GL086492, <https://doi.org/10.1029/2019GL086492>
- Volkov, D. L., S.-K. Lee, A. L. Gordon, and M. Rudko, 2020: Unprecedented reduction and quick recovery of the South Indian Ocean heat content and sea level in 2014–2018. *Science Advances*, **6**, eabc1151, <https://doi.org/10.1126/sciadv.abc1151>
- Volkov, D. L., C. S. Meinen, C. Schmid, B. Moat, M. Lankhorst, S. Dong, F. Li, W. Johns, S. Lozier, R. Perez, G. Goni, M. Kersalé, E. Frajka-Williams, M. Baringer, D. Smeed, D. Rayner, A. Sanchez-Franks, and U. Send, 2020: Atlantic meridional overturning circulation and associated heat transport in the State of the Climate in 2019. *Bull. Am. Meteorol. Soc.*, **101**, <https://doi.org/10.1175/2020BAMSStateoftheClimate.1>
- von Berg, L., C. J. Prend, E. C. Campbell, M. R. Mazloff, L. D. Talley, and S. T. Gille, 2020: Weddell Sea Phytoplankton Blooms Modulated by Sea Ice Variability and Polynya Formation. *Geophysical Research Letters*, **47**, e2020GL087954, <https://doi.org/10.1029/2020GL087954>
- von Schuckmann, K., L. Cheng, M. D. Palmer, J. Hansen, C. Tassone, V. Aich, S. Adusumilli, H. Beltrami, T. Boyer, F. J. Cuesta-Valero, D. Desbruyères, C. Domingues, A. García-García, P. Gentine, J. Gilson, M. Gorfer, L. Haimberger, M. Ishii, G. C. Johnson, R. Killick, B. A. King, G. Kirchengast, N. Kolodziejczyk, J. Lyman, B. Marzeion, M. Mayer, M. Monier, D. P. Monselesan, S. Purkey, D. Roemmich, A. Schweiger, S. I. Seneviratne, A. Shepherd, D. A. Slater, A. K. Steiner, F. Straneo, M. L. Timmermans, and S. E. Wijffels, 2020: Heat stored in the Earth system: where does the energy go? *Earth Syst. Sci. Data*, **12**, 2013–2041, <https://doi.org/10.5194/essd-12-2013-2020>
- von Schuckmann, K. and P.-Y. Le Traon and N. Smith and A. Pascual and S. Djavidnia and J.-P. Gattuso and M. Grégoire and G. Nolan and S. Aaboe and E. Á. Fanjul and L. Aouf and R. Aznar and T. H. Badewien and A. Behrens and M. Berta and L. Bertino and J. Blackford and G. Bolzon and F. Borile and M. Bretagnon and R. J. W. Brewin and D. Canu and P. Cessi and S. Ciavatta and B. Chapron and T. T. Trang Chau and F. Chevallier and B. Chtirkova and S. Ciliberti and J. R. Clark and E. Clementi and C. Combot and E. Comerma and A. Conchon and G. Coppini and L. Corgnati and G. Cossarini and S. Cravatte and M. de Alfonso and C. de Boyer Montégut and C. De Lera Fernández and F. J. de los Santos and A. Denvil-Sommer and Á. de Pascual Collar and P. A. L. Dias Nunes and V. Di Biagio and M. Drudi and O. Embury and P. Falco and O. F. d'Andon and L. Ferrer and D. Ford and H. Freund and M. G. León and M. G. Sotillo and J. M. García-Valdecasas and P. Garnesson and G. Garric and F. Gasparin and M. Gehlen and A. Genua-Olmedo and G. Geyer and A. Ghermandi and S. A. Good and J. Gourrion and E. Greiner and A. Griffa and M. González and A. Griffa and I. Hernández-Carrasco and S. Iso and J. J. Kennedy and S. Kay and A. Korosov and K. Laanemäe and P. E. Land and T. Lavergne and P. Lazzari and J.-F. Legeais and B. Lemieux and B. Levier and W. Llovel and V. Lyubartsev and P.-Y. Le Traon and V. S. Lien and L. Lima and P. Lorente and J. Mader and M. G. Magaldi and I. Maljutenko and A. Mangin and C. Mantovani and V. Marina and S. Masina and E. Mauri and J. Meyerjürgens and A. Mignot and R. McEwan and C. Mejia and A. Melet and M. Menna and B. Meyssignac and A. Mouche and B. Mourre and M. Müller and G. Notarstefano and A. Orfila and S. Pardo and E. Peneva and B. Pérez-Gómez and C.

- Perrucheand M. Peterlinand P.-M. Poulainand N. Pinardiand Y. Quilfenand U. Raudseppand R. Renshawand A. Révelardand E. Reyes-Reyesand M. Rickerand P. Rodríguez-Rubioand P. Rotllánand E. R. Gelabertand A. Rubioand I. Ruiz-Parradoand S. Sathyendranathand J. Sheand K. von Schuckmannand C. Solidoroand E. V. Stanevand J. Stanevaand A. Stortoand J. Suand T. T. Bakhshand G. H. Tilstoneand J. Tintoréand C. Toledanoand J. Tournadreand B. Tranchantand R. Uiboupinand A. Valcarceland N. Valchevaand N. Verbruggeand M. Vracand J. O. Wolffand E. Zambianchiand O. Zielinskiand A.-S. Zinck and S. Zunino, 2020: Copernicus Marine Service Ocean State Report, Issue 4. *Journal of Operational Oceanography*, **13**, S1-S172, <https://doi.org/10.1080/1755876X.2020.1785097>
- Wagawa, T., Y. Kawaguchi, Y. Igeta, N. Honda, T. Okunishi, and I. Yabe, 2020: Observations of oceanic fronts and water-mass properties in the central Japan Sea: Repeated surveys from an underwater glider. *Journal of Marine Systems*, **201**, 103242, <https://doi.org/10.1016/j.jmarsys.2019.103242>
- Walczowski, W., M. Merchel, D. Rak, P. Wieczorek, and I. Goszczko, 2020: Argo floats in the southern Baltic Sea. *Oceanologia*, **62**, 478-488, <https://doi.org/10.1016/j.oceano.2020.07.001>
- Wallace, L. O., E. M. van Wijk, S. R. Rintoul, and B. Hally, 2020: Bathymetry-Constrained Navigation of Argo Floats Under Sea Ice on the Antarctic Continental Shelf. *Geophysical Research Letters*, **47**, e2020GL087019, <https://doi.org/10.1029/2020GL087019>
- Wang, B., K. Fennel, L. Yu, and C. Gordon, 2020: Assessing the value of biogeochemical Argo profiles versus ocean color observations for biogeochemical model optimization in the Gulf of Mexico. *Biogeosciences*, **17**, 4059-4074, <https://doi.org/10.5194/bg-17-4059-2020>
- Wang, D. L. and S. W. Zhang, 2020: Design and application of a real-time temperature and salinity profile observation system under ice for polar regions. *Chinese Journal of Polar Research*, **32**, 523-532,
- Wang, G. and F. Qiao, 2020: Mirror patterns of physical variables in the ocean. *Climate Dynamics*, **54**, 3109-3120, <https://doi.org/10.1007/s00382-020-05161-1>
- Wang, J., R. K. W. Wong, and X. Zhang, 2020: Low-Rank Covariance Function Estimation for Multidimensional Functional Data. *Journal of the American Statistical Association*, 1-14, <https://doi.org/10.1080/01621459.2020.1820344>
- Wang, J., T. Xu, W. Nie, and X. Yu, 2020: The Construction of Sound Speed Field Based on Back Propagation Neural Network in the Global Ocean. *Marine Geodesy*, **43**, 621-642, <https://doi.org/10.1080/01490419.2020.1815912>
- Wang, J., D. Yuan, X. Li, Y. Li, Z. Wang, X. Hu, X. Zhao, C. Corvianawatie, and D. Surinati, 2020: Moored Observations of the Savu Strait Currents in the Indonesian Seas. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016082, <https://doi.org/10.1029/2020JC016082>
- Wang, P., W. Zhang, H. Wang, H. Dai, and X. Wang, 2020: Assimilation of Middepth Velocities from Argo Floats in the Western South China Sea. *Journal of Atmospheric and Oceanic Technology*, **37**, 141-157, <https://doi.org/10.1175/JTECH-D-18-0233.1>
- Wang, R., X. Cheng, L. Xu, and J. Chen, 2020: Mesoscale Eddy Effects on the Subduction of

- North Pacific Eastern Subtropical Mode Water. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015641, <https://doi.org/10.1029/2019JC015641>
- Wang, S., E. L. Kenchington, Z. Wang, I. Yashayaev, and A. J. Davies, 2020: 3-D ocean particle tracking modeling reveals extensive vertical movement and downstream interdependence of closed areas in the northwest Atlantic. *Scientific Reports*, **10**, 21421, <https://doi.org/10.1038/s41598-020-76617-x>
- Wang, T., F. Chen, S. Zhang, J. Pan, A. T. Devlin, H. Ning, and W. Zeng, 2020: Remote Sensing and Argo Float Observations Reveal Physical Processes Initiating a Winter-Spring Phytoplankton Bloom South of the Kuroshio Current Near Shikoku. *Remote Sensing*, **12**, <https://doi.org/10.3390/rs12244065>
- Wang, T., S. T. Gille, M. R. Mazloff, N. V. Zilberman, and Y. Du, 2020: Eddy-Induced Acceleration of Argo Floats. *Journal of Geophysical Research: Oceans*, **125**, e2019JC016042, <https://doi.org/10.1029/2019JC016042>
- Wang, Y., C. Li, and Q. Liu, 2020: Observation of an anti-cyclonic mesoscale eddy in the subtropical northwestern Pacific Ocean from altimetry and Argo profiling floats. *Acta Oceanologica Sinica*, **39**, 79-90, <https://doi.org/10.1007/s13131-020-1596-y>
- Wang, Y., Y. Li, and C. Wei, 2020: Subtropical sea surface salinity maxima in the South Indian Ocean. *Journal of Oceanology and Limnology*, **38**, 16-29, <https://doi.org/10.1007/s00343-019-8251-5>
- Wang, Y. and Y. Luo, 2020: Variability of spice injection in the upper ocean of the southeastern Pacific during 1992–2016. *Climate Dynamics*, **54**, 3185-3200, <https://doi.org/10.1007/s00382-020-05164-y>
- Wang, Y., R. Wu, and Y. Jiao, 2020: Upscale feedback of high-frequency winds on seasonal SST change over the tropical western North Pacific during boreal summer. *Climate Dynamics*, **55**, 2439-2451, <https://doi.org/10.1007/s00382-020-05391-3>
- Wang, Z., X. Huang, Y. Yang, Z. Zhang, C. Zhou, W. Zhao, and J. Tian, 2020: Impacts of subtidal motions and the earth rotation on modal characteristics of the semidiurnal internal tide. *Journal of Oceanography*, **76**, 15-27, <https://doi.org/10.1007/s10872-019-00524-7>
- Wang, Z., Z. Wen, H. Hu, Z. Song, and G. Liu, 2020: The Characteristics of Near-Equatorial North Pacific Low PV Water and Its Possible Influences on the Equatorial Subsurface Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016282, <https://doi.org/10.1029/2020JC016282>
- Wang, Z., Z. Zhang, M. Zhou, H. Liu, Y. Zhong, and X. Wang, 2020: Seasonal linkage of the Southern Hemisphere extratropical climate variability to two types of ENSO. *Acta Oceanologica Sinica*, **39**, 63-73, <https://doi.org/10.1007/s13131-019-1528-x>
- Watanabe, Y. W., B. F. Li, R. Yamasaki, S. Yunoki, K. Imai, S. Hosoda, and Y. Nakano, 2020: Spatiotemporal changes of ocean carbon species in the western North Pacific using parameterization technique. *Journal of Oceanography*, **76**, 155-167, <https://doi.org/10.1007/s10872-019-00532-7>
- Wen, Z., H. Hu, Z. Song, H. Bai, and Z. Wang, 2020: Different Influences of Mesoscale Oceanic Eddies on the North Pacific Subsurface Low Potential Vorticity Water Mass Between Winter and Summer. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015333, <https://doi.org/10.1029/2019JC015333>

- West, B. J., W. Han, L. Zhang, and Y. Li, 2020: The Role of Oceanic Processes in the Initiation of Boreal Winter Intraseasonal Oscillations Over the Indian Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015426, <https://doi.org/10.1029/2019JC015426>
- Wild, M., 2020: The global energy balance as represented in CMIP6 climate models. *Climate Dynamics*, **55**, 553-577, <https://doi.org/10.1007/s00382-020-05282-7>
- Wirasatriya, A., J. D. Setiawan, D. N. Sugianto, I. A. Rosyadi, H. Haryadi, G. Winarso, R. Y. Setiawan, and R. D. Susanto, 2020: Ekman dynamics variability along the southern coast of Java revealed by satellite data. *International Journal of Remote Sensing*, **41**, 8475-8496, <https://doi.org/10.1080/01431161.2020.1797215>
- Wojtasiewicz, B., T. W. Trull, T. V. S. Udaya Bhaskar, M. Gauns, S. Prakash, M. Ravichandran, D. M. Shenoy, D. Slawinski, and N. J. Hardman-Mountford, 2020: Autonomous profiling float observations reveal the dynamics of deep biomass distributions in the denitrifying oxygen minimum zone of the Arabian Sea. *Journal of Marine Systems*, **207**, 103103, <https://doi.org/10.1016/j.jmarsys.2018.07.002>
- Wong, A. P. S., S. E. Wijffels, S. C. Riser, S. Pouliquen, S. Hosoda, D. Roemmich, J. Gilson, G. C. Johnson, K. Martini, D. J. Murphy, M. Scanderbeg, T. V. S. U. Bhaskar, J. J. H. Buck, F. Merceur, T. Carval, G. Maze, C. Cabanes, X. André, N. Poffa, I. Yashayaev, P. M. Barker, S. Guinehut, M. Belbéoch, M. Ignaszewski, M. O. N. Baringer, C. Schmid, J. M. Lyman, K. E. McTaggart, S. G. Purkey, N. Zilberman, M. B. Alkire, D. Swift, W. B. Owens, S. R. Jayne, C. Hersh, P. Robbins, D. West-Mack, F. Bahr, S. Yoshida, P. J. H. Sutton, R. Cancouët, C. Coatanoan, D. Dobbler, A. G. Juan, J. Gouillon, N. Kolodziejczyk, V. Bernard, B. Bourlès, H. Claustre, F. D'Ortenzio, S. Le Reste, P.-Y. Le Traon, J.-P. Rannou, C. Saout-Grit, S. Speich, V. Thierry, N. Verbrugge, I. M. Angel-Benavides, B. Klein, G. Notarstefano, P.-M. Poulain, P. Vélez-Belchí, T. Suga, K. Ando, N. Iwasaka, T. Kobayashi, S. Masuda, E. Oka, K. Sato, T. Nakamura, K. Sato, Y. Takatsuki, T. Yoshida, R. Cowley, J. L. Lovell, P. R. Oke, E. M. van Wijk, F. Carse, M. Donnelly, W. J. Gould, K. Gowers, B. A. King, S. G. Loch, M. Mowat, J. Turton, E. P. Rama Rao, M. Ravichandran, H. J. Freeland, I. Gaboury, D. Gilbert, B. J. W. Greenan, M. Ouellet, T. Ross, A. Tran, M. Dong, Z. Liu, J. Xu, K. Kang, H. Jo, S.-D. Kim, and H.-M. Park, 2020: Argo Data 1999–2019: Two Million Temperature-Salinity Profiles and Subsurface Velocity Observations From a Global Array of Profiling Floats. *Frontiers in Marine Science*, **7**, <https://doi.org/10.3389/fmars.2020.00700>
- Wu, B., X. Lin, and L. Yu, 2020: North Pacific subtropical mode water is controlled by the Atlantic Multidecadal Variability. *Nature Climate Change*, **10**, 238-243, <https://doi.org/10.1038/s41558-020-0692-5>
- Wu, B., X. Lin, and L. Yu, 2020: Decadal to Multidecadal Variability of the Mixed Layer to the South of the Kuroshio Extension Region. *Journal of Climate*, **33**, 7697-7714, <https://doi.org/10.1175/JCLI-D-20-0115.1>
- Wu, W., Y. Du, Y.-K. Qian, X. Cheng, T. Wang, L. Zhang, and S. Peng, 2020: Structure and Seasonal Variation of the Indian Ocean Tropical Gyre Based on Surface Drifters. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015483, <https://doi.org/10.1029/2019JC015483>
- Wu, W., Z. Zhan, S. Peng, S. Ni, and J. Callies, 2020: Seismic ocean thermometry. *Science*,

- 369**, 1510-1515, <https://doi.org/10.1126/science.abb9519>
- Wu, X., F. Feddersen, S. N. Giddings, N. Kumar, and G. Gopalakrishnan, 2020: Mechanisms of Mid- to Outer-Shelf Transport of Shoreline-Released Tracers. *Journal of Physical Oceanography*, **50**, 1813-1837, <https://doi.org/10.1175/JPO-D-19-0225.1>
- Wunsch, C., 2020: Is the Ocean Speeding Up? Ocean Surface Energy Trends. *Journal of Physical Oceanography*, **50**, 3205-3217, <https://doi.org/10.1175/JPO-D-20-0082.1>
- Xia, Y., Y. Du, B. Qiu, X. Cheng, T. Wang, and Q. Xie, 2020: The characteristics of the mid-depth striations in the North Indian Ocean. *Deep Sea Research Part I: Oceanographic Research Papers*, **162**, 103307, <https://doi.org/10.1016/j.dsr.2020.103307>
- Xie, T., W. Perrie, C. Wei, and L. Zhao, 2020: Discrimination of open water from sea ice in the Labrador Sea using quad-polarized synthetic aperture radar. *Remote Sensing of Environment*, **247**, 111948, <https://doi.org/10.1016/j.rse.2020.111948>
- Xing, X., E. Boss, J. Zhang, and F. Chai, 2020: Evaluation of Ocean Color Remote Sensing Algorithms for Diffuse Attenuation Coefficients and Optical Depths with Data Collected on BGC-Argo Floats. *Remote Sensing*, **12**, 2367, <https://doi.org/10.3390/rs12152367>
- Xing, X., M. L. Wells, S. Chen, S. Lin, and F. Chai, 2020: Enhanced Winter Carbon Export Observed by BGC-Argo in the Northwest Pacific Ocean. *Geophysical Research Letters*, **47**, e2020GL089847, <https://doi.org/10.1029/2020GL089847>
- Xiu, P. and F. Chai, 2020: Eddies Affect Subsurface Phytoplankton and Oxygen Distributions in the North Pacific Subtropical Gyre. *Geophysical Research Letters*, **47**, e2020GL087037, <https://doi.org/10.1029/2020GL087037>
- Xu, H., R. Yu, D. Tang, Y. Liu, S. Wang, and D. Fu, 2020: Effects of Tropical Cyclones on Sea Surface Salinity in the Bay of Bengal Based on SMAP and Argo Data. *Water*, **12**, <https://doi.org/10.3390/w12112975>
- Yamazaki, K., S. Aoki, K. Shimada, T. Kobayashi, and Y. Kitade, 2020: Structure of the Subpolar Gyre in the Australian-Antarctic Basin Derived From Argo Floats. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015406, <https://doi.org/10.1029/2019JC015406>
- Yan, H., H. Wang, R. Zhang, J. Chen, S. Bao, and G. Wang, 2020: A Dynamical-Statistical Approach to Retrieve the Ocean Interior Structure From Surface Data: SQG-mEOF-R. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015840, <https://doi.org/10.1029/2019JC015840>
- Yang, K., W. Cai, G. Huang, G. Wang, B. Ng, and S. Li, 2020: Oceanic Processes in Ocean Temperature Products Key to a Realistic Presentation of Positive Indian Ocean Dipole Nonlinearity. *Geophysical Research Letters*, **47**, e2020GL089396, <https://doi.org/10.1029/2020GL089396>
- Yang, S., L. Song, Y. Zhang, W. Fan, B. Zhang, Y. Dai, H. Zhang, S. Zhang, and Y. Wu, 2020: The Potential Vertical Distribution of Bigeye Tuna (*Thunnus obesus*) and Its Influence on the Spatial Distribution of CPUEs in the Tropical Atlantic Ocean. *Journal of Ocean University of China*, **19**, 669-680, <https://doi.org/10.1007/s11802-020-4264-0>
- Yang, X., G. Xu, Y. Liu, W. Sun, C. Xia, and C. Dong, 2020: Multi-Source Data Analysis of Mesoscale Eddies and Their Effects on Surface Chlorophyll in the Bay of Bengal.

- Remote Sensing*, **12**, <https://doi.org/10.3390/rs12213485>
- Yang, Y., X. Li, J. Wang, and D. Yuan, 2020: Seasonal Variability and Dynamics of the Pacific North Equatorial Subsurface Current. *Journal of Physical Oceanography*, **50**, 2457-2474, <https://doi.org/10.1175/JPO-D-19-0261.1>
- Yang, Z. and Y. Luo, 2020: Contribution of Mesoscale Eddies to the Subduction and Transport of North Pacific Eastern Subtropical Mode Water. *Journal of Ocean University of China*, **19**, 36-46, <https://doi.org/10.1007/s11802-020-4203-0>
- Yang, B., E. S. Boss, N. Haëntjens, M. C. Long, M. J. Behrenfeld, R. Eveleth, and S. C. Doney (2020), Phytoplankton Phenology in the North Atlantic: Insights From Profiling Float Measurements, *Frontiers in Marine Science*, **7**, doi: <https://doi.org/10.3389/fmars.2020.00139>.
- Yano, M., T. Itoh, Y. Tanaka, D. Matsuoka, and F. Araki, 2020: A comparative visualization tool for ocean data analysis based on mode water regions. *Journal of Visualization*, **23**, 313-329, <https://doi.org/10.1007/s12650-020-00629-y>
- Yearsley, J. M., D. M. Salmanidou, J. Carlsson, D. Burns, and C. L. Van Dover, 2020: Biophysical models of persistent connectivity and barriers on the northern Mid-Atlantic Ridge. *Deep Sea Research Part II: Topical Studies in Oceanography*, **180**, 104819, <https://doi.org/10.1016/j.dsr2.2020.104819>
- Yesubabu, V., V. K. Kattamanchi, N. K. Vissa, H. P. Dasari, and V. B. R. Sarangam, 2020: Impact of ocean mixed-layer depth initialization on the simulation of tropical cyclones over the Bay of Bengal using the WRF-ARW model. *Meteorological Applications*, **27**, e1862, <https://doi.org/10.1002/met.1862>
- Yi, D. L., O. Melnichenko, P. Hacker, and J. Potemra, 2020: Remote Sensing of Sea Surface Salinity Variability in the South China Sea. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016827, <https://doi.org/10.1029/2020JC016827>
- Yin, H., H. Dai, W. Zhang, X. Zhang, and P. Wang, 2020: Demonstration of the refined three-dimensional structure of mesoscale eddies and computational error estimates via Lagrangian analysis. *Acta Oceanologica Sinica*, **39**, 146-164, <https://doi.org/10.1007/s13131-020-1619-8>
- Ypma, S. L., S. Georgiou, J. S. Dugstad, J. D. Pietrzak, and C. A. Katsman, 2020: Pathways and Water Mass Transformation Along and Across the Mohn-Knipovich Ridge in the Nordic Seas. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016075, <https://doi.org/10.1029/2020JC016075>
- Yu, F., X. Zhang, X. Chen, and G. Chen, 2020: Altimetry-derived ocean thermal structure reconstruction for the Bay of Bengal cyclone season. *Ocean Dynamics*, **70**, 1449-1459, <https://doi.org/10.1007/s10236-020-01409-w>
- Yu, J., B. Gan, Z. Jing, and L. Wu, 2020: Winter Extreme Mixed Layer Depth South of the Kuroshio Extension. *Journal of Climate*, **33**, 10419-10436, <https://doi.org/10.1175/JCLI-D-20-0119.1>
- Yumruktepe, V. Ç., B. Salihoğlu, and S. Neuer, 2020: Controls on carbon export in the subtropical North Atlantic. *Progress in Oceanography*, **187**, 102380, <https://doi.org/10.1016/j.pocean.2020.102380>
- Zaba, K. D., D. L. Rudnick, B. D. Cornuelle, G. Gopalakrishnan, and M. R. Mazloff, 2020: Volume and Heat Budgets in the Coastal California Current System: Means, Annual

- Cycles, and Interannual Anomalies of 2014–16. *Journal of Physical Oceanography*, **50**, 1435-1453, <https://doi.org/10.1175/JPO-D-19-0271.1>
- Zang, N., F. Wang, and J. Sprintall, 2020: The intermediate water in the Philippine Sea. *Journal of Oceanology and Limnology*, **38**, 1343-1353, <https://doi.org/10.1007/s00343-020-0035-4>
- Zhai, F. and Y. Gu, 2020: Abyssal Circulation in the Philippine Sea. *Journal of Ocean University of China*, **19**, 249-262, <https://doi.org/10.1007/s11802-020-4241-7>
- Zhang, K., X. Geng, and X. Yan, 2020: Prediction of 3-D Ocean Temperature by Multilayer Convolutional LSTM. *IEEE Geoscience and Remote Sensing Letters*, **17**, 1303-1307, <https://doi.org/10.1109/LGRS.2019.2947170>
- Zhang, L., J. Wu, F. Wang, S. Hu, Q. Wang, F. Jia, F. Wang, and D. Hu, 2020: Seasonal and Interannual Variability of the Currents off the New Guinea Coast From Mooring Measurements. *Journal of Geophysical Research: Oceans*, **125**, e2020JC016242, <https://doi.org/10.1029/2020JC016242>
- Zhang, N., G. Liu, Q. Liu, S. Zheng, and W. Perrie, 2020: Spatiotemporal Variations of Mesoscale Eddies in the Southeast Indian Ocean. *Journal of Geophysical Research: Oceans*, **125**, e2019JC015712, <https://doi.org/10.1029/2019JC015712>
- Zhang, Q., F. Yu, and G. Chen, 2020: The Difference of Sea Level Variability by Steric Height and Altimetry in the North Pacific. *Remote Sensing*, **12**, 379, <https://doi.org/10.3390/rs12030379>
- Zhang, X. and W. Han, 2020: Effects of Climate Modes on Interannual Variability of Upwelling in the Tropical Indian Ocean. *Journal of Climate*, **33**, 1547-1573, <https://doi.org/10.1175/JCLI-D-19-0386.1>
- Zhang, X., L. Hu, Y. Xiong, Y. Huot, and D. Gray, 2020: Experimental Estimates of Optical Backscattering Associated With Submicron Particles in Clear Oceanic Waters. *Geophysical Research Letters*, **47**, e2020GL087100, <https://doi.org/10.1029/2020GL087100>
- Zhang, Y., Y. Du, W. N. D. S. Jayarathna, Q. Sun, Y. Zhang, F. Yao, and M. Feng, 2020: A Prolonged High-Salinity Event in the Northern Arabian Sea during 2014–17. *Journal of Physical Oceanography*, **50**, 849-865, <https://doi.org/10.1175/JPO-D-19-0220.1>
- Zhao, D., L. Gao, and Y. Xu, 2020: Quantification of the impact of environmental factors on chlorophyll in the open ocean. *Journal of Oceanology and Limnology*, <https://doi.org/10.1007/s00343-020-9121-x>
- Zhao, R., H. Nakamura, X.-H. Zhu, J.-H. Park, A. Nishina, C. Zhang, H. Na, C. Jeon, Z.-N. Zhu, and H. S. Min, 2020: Tempo-spatial variations of the Ryukyu Current southeast of Miyakojima Island determined from mooring observations. *Scientific Reports*, **10**, 6656, <https://doi.org/10.1038/s41598-020-63836-5>
- Zhu, C. and Z. Liu, 2020: Weakening Atlantic overturning circulation causes South Atlantic salinity pile-up. *Nature Climate Change*, **10**, 998-1003, <https://doi.org/10.1038/s41558-020-0897-7>
- Zhu, Y., Y. Li, and S. Peng, 2020: The Track and Accompanying Sea Wave Forecasts of the Supertyphoon Mangkhut (2018) by a Real-Time Regional Forecast System. *Journal of Atmospheric and Oceanic Technology*, **37**, 2075-2084, <https://doi.org/10.1175/JTECH-D-19-0196.1>

- Zhu, Y., R.-H. Zhang, and J. Sun, 2020: North Pacific Upper-Ocean Cold Temperature Biases in CMIP6 Simulations and the Role of Regional Vertical Mixing. *Journal of Climate*, **33**, 7523-7538, <https://doi.org/10.1175/JCLI-D-19-0654.1>
- Zika, J. D., J. B. Sallée, A. J. S. Meijers, A. C. Naveira-Garabato, A. J. Watson, M. J. Messias, and B. A. King, 2020: Tracking the spread of a passive tracer through Southern Ocean water masses. *Ocean Sci.*, **16**, 323-336, <https://doi.org/10.5194/os-16-323-2020>
- Zilberman, N. V., D. H. Roemmich, and J. Gilson, 2020: Deep-Ocean Circulation in the Southwest Pacific Ocean Interior: Estimates of the Mean Flow and Variability Using Deep Argo Data. *Geophysical Research Letters*, **47**, e2020GL088342, <https://doi.org/10.1029/2020GL088342>
- Zou, S., M. S. Lozier, F. Li, R. Abernathey, and L. Jackson, 2020: Density-compensated overturning in the Labrador Sea. *Nature Geoscience*, **13**, 121-126, <https://doi.org/10.1038/s41561-019-0517-1>
- Zu, T., D. Wang, Q. Wang, M. Li, J. Wei, B. Geng, Y. He, and J. Chen, 2020: A revisit of the interannual variation of the South China Sea upper layer circulation in summer: correlation between the eastward jet and northward branch. *Climate Dynamics*, **54**, 457-471, <https://doi.org/10.1007/s00382-019-05007-5>
- Zunino, P., H. Mercier, and V. Thierry, 2020: Why did deep convection persist over four consecutive winters (2015–2018) southeast of Cape Farewell? *Ocean Sci.*, **16**, 99-113, <https://doi.org/10.5194/os-16-99-2020>

2019 (515)

- Abdulla, C. P., M. A. Alsaafani, T. M. Alraddadi, and A. M. Albarakati (2019), Climatology of mixed layer depth in the Gulf of Aden derived from in situ temperature profiles, *J. Oceanogr.*, **75**(4), 335-347, doi: <https://doi.org/10.1007/s10872-019-00506-9>.
- Abe, H., N. Ebuchi, H. Ueno, H. Ishiyama, and Y. Matsumura (2019), Aquarius reveals eddy stirring after a heavy precipitation event in the subtropical North Pacific, *J. Oceanogr.*, **75**(1), 37-50, doi: <https://doi.org/10.1007/s10872-018-0482-0>.
- Ali, A., K. H. Christensen, Ø. Breivik, M. Malila, R. P. Raj, L. Bertino, E. P. Chassignet, and M. Bakhoday-Paskyabi (2019), A comparison of Langmuir turbulence parameterizations and key wave effects in a numerical model of the North Atlantic and Arctic Oceans, *Ocean Model.*, **137**, 76-97, doi: <https://doi.org/10.1016/j.ocemod.2019.02.005>.
- Androsov, A., L. Nerger, R. Schnur, J. Schröter, A. Albertella, R. Rummel, R. Savcenko, W. Bosch, S. Skachko, and S. Danilov (2019), On the assimilation of absolute geodetic dynamic topography in a global ocean model: impact on the deep ocean state, *Journal of Geodesy*, **93**(2), 141-157, doi: <https://doi.org/10.1007/s00190-018-1151-1>.
- Androulidakis, Y., V. Kourafalou, M. Le Hénaff, H. Kang, T. Sutton, S. Chen, C. Hu, and N. Ntaganou (2019), Offshore Spreading of Mississippi Waters: Pathways and Vertical Structure Under Eddy Influence, *Journal of Geophysical Research: Oceans*, **124**(8), 5952-5978, doi: <https://doi.org/10.1029/2018JC014661>.
- Anutaliya, A., U. Send, J. Sprintall, J. L. McClean, M. Lankhorst, and J. Koelling (2019), Mooring and Seafloor Pressure End Point Measurements at the Southern Entrance of the Solomon Sea: Subseasonal to Interannual Flow Variability, *Journal of*

- Geophysical Research: Oceans*, 124(7), 5085-5104, doi:
<https://doi.org/10.1029/2019JC015157>.
- Ardyna, M., et al. (2019), Hydrothermal vents trigger massive phytoplankton blooms in the Southern Ocean, *Nature Communications*, 10(1), 2451, doi:
<https://doi.org/10.1038/s41467-019-09973-6>.
- Artana, C., C. Provost, J.-M. Lellouche, M.-H. Rio, R. Ferrari, and N. Sennéchaël (2019), The Malvinas Current at the Confluence With the Brazil Current: Inferences From 25 Years of Mercator Ocean Reanalysis, *Journal of Geophysical Research: Oceans*, 124(10), 7178-7200, doi: <https://doi.org/10.1029/2019JC015289>.
- Arteaga, L. A., M. Pahlow, S. M. Bushinsky, and J. L. Sarmiento (2019), Nutrient Controls on Export Production in the Southern Ocean, *Glob. Biogeochem. Cycle*, 33(8), 942-956, doi: <https://doi.org/10.1029/2019GB006236>.
- Asbjørnsen, H., M. Årthun, Ø. Skagseth, and T. Eldevik (2019), Mechanisms of Ocean Heat Anomalies in the Norwegian Sea, *Journal of Geophysical Research: Oceans*, 124(4), 2908-2923, doi: <https://doi.org/10.1029/2018JC014649>.
- Baduru, B., B. Paul, D. S. Banerjee, S. Sanikommu, and A. Paul (2019), Ensemble based regional ocean data assimilation system for the Indian Ocean: Implementation and evaluation, *Ocean Model.*, 143, 101470, doi:
<https://doi.org/10.1016/j.ocemod.2019.101470>.
- Baek, Y.-H., and I.-J. Moon (2019), Estimation of Satellite-Based Upper-Ocean Temperature Profile in the Western North Pacific and Its Application to Tropical Cyclone Intensity Predictions, *Journal of Coastal Research*, 90(sp1), 261-266, 266, doi:
<https://doi.org/10.2112/SI90-032.1>.
- Bao, S., H. Wang, R. Zhang, H. Yan, and J. Chen (2019), Comparison of Satellite-Derived Sea Surface Salinity Products from SMOS, Aquarius, and SMAP, *Journal of Geophysical Research: Oceans*, 124(3), 1932-1944, doi: <https://doi.org/10.1029/2019JC014937>.
- Bao, S., R. Zhang, H. Wang, H. Yan, Y. Yu, and J. Chen (2019), Salinity Profile Estimation in the Pacific Ocean from Satellite Surface Salinity Observations, *J. Atmos. Ocean. Technol.*, 36(1), 53-68, doi: <https://doi.org/10.1175/JTECH-D-17-0226.1>.
- Barbieux, M., et al. (2019), Bio-optical characterization of subsurface chlorophyll maxima in the Mediterranean Sea from a Biogeochemical-Argo float database, *Biogeosciences*, 16(6), 1321-1342, doi: <https://doi.org/10.5194/bg-16-1321-2019>.
- Bebieva, Y., and K. Speer (2019), The Regulation of Sea Ice Thickness by Double-Diffusive Processes in the Ross Gyre, *Journal of Geophysical Research: Oceans*, 124(10), 7068-7081, doi: <https://doi.org/10.1029/2019JC015247>.
- Bellacicco, M., et al. (2019), Global Variability of Optical Backscattering by Non-algal particles From a Biogeochemical-Argo Data Set, *Geophys. Res. Lett.*, 46(16), 9767-9776, doi: <https://doi.org/10.1029/2019GL084078>.
- Bellacicco, M., V. Vellucci, M. Scardi, M. Barbieux, S. Marullo, and F. D'Ortenzio (2019), Quantifying the Impact of Linear Regression Model in Deriving Bio-Optical Relationships: The Implications on Ocean Carbon Estimations, *Sensors*, 19(13), 3032, doi: <https://doi.org/10.3390/s19133032>.
- Belonenko, T. V., and A. V. Koldunov (2019), Trends of Steric Sea Level Oscillations in the North Atlantic, *Izv. Atmos. Ocean. Phys.*, 55(9), 1106-1113, doi:

- <https://doi.org/10.1134/S0001433819090081>.
- Benway, H. M., et al. (2019), Ocean Time Series Observations of Changing Marine Ecosystems: An Era of Integration, Synthesis, and Societal Applications, *Frontiers in Marine Science*, 6(393), doi: <https://doi.org/10.3389/fmars.2019.00393>.
- Bhowmick, S. A., N. Agarwal, M. M. Ali, C. M. Kishtawal, and R. Sharma (2019), Role of ocean heat content in boosting post-monsoon tropical storms over Bay of Bengal during La-Niña events, *Climate Dynamics*, 52(12), 7225-7234, doi: <https://doi.org/10.1007/s00382-016-3428-5>.
- Bif, M. B., and D. A. Hansell (2019), Seasonality of Dissolved Organic Carbon in the Upper Northeast Pacific Ocean, *Glob. Biogeochem. Cycle*, 33(5), 526-539, doi: <https://doi.org/10.1029/2018GB006152>.
- Bif, M. B., L. Siqueira, and D. A. Hansell (2019), Warm Events Induce Loss of Resilience in Organic Carbon Production in the Northeast Pacific Ocean, *Glob. Biogeochem. Cycle*, 33(9), 1174-1186, doi: <https://doi.org/10.1029/2019GB006327>.
- Bilbao, R. A. F., J. M. Gregory, N. Bouttes, M. D. Palmer, and P. Stott (2019), Attribution of ocean temperature change to anthropogenic and natural forcings using the temporal, vertical and geographical structure, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-019-04910-1>.
- Biló, T. C., and W. E. Johns (2019), Interior Pathways of Labrador Sea Water in the North Atlantic From the Argo Perspective, *Geophys. Res. Lett.*, 46(6), 3340-3348, doi: <https://doi.org/10.1029/2018GL081439>.
- Bingham, F. M. (2019), Subfootprint Variability of Sea Surface Salinity Observed during the SPURS-1 and SPURS-2 Field Campaigns, *Remote Sensing*, 11(22), 2689, doi: <https://doi.org/10.3390/rs11222689>.
- Bingham, F. M., J. J. M. Busecke, and A. L. Gordon (2019), Variability of the South Pacific Subtropical Surface Salinity Maximum, *Journal of Geophysical Research: Oceans*, 124(8), 6050-6066, doi: <https://doi.org/10.1029/2018JC014598>.
- Bisson, K. M., E. Boss, T. K. Westberry, and M. J. Behrenfeld (2019), Evaluating satellite estimates of particulate backscatter in the global open ocean using autonomous profiling floats, *Opt. Express*, 27(21), 30191-30203, doi: <https://doi.org/10.1364/OE.27.030191>.
- Bittig, H. C., et al. (2019), A BGC-Argo Guide: Planning, Deployment, Data Handling and Usage, *Frontiers in Marine Science*, 6(502), doi: <https://doi.org/10.3389/fmars.2019.00502>.
- Boretti, A. (2019), A realistic expectation of sea level rise in the Mexican Caribbean, *Journal of Ocean Engineering and Science*, 4(4), 379-386, doi: <https://doi.org/10.1016/j.joes.2019.06.003>.
- Borovikov, A., R. Cullather, R. Kovach, J. Marshak, G. Vernieres, Y. Vikhliaev, B. Zhao, and Z. Li (2019), GEOS-5 seasonal forecast system, *Climate Dynamics*, 53(12), 7335-7361, doi: <https://doi.org/10.1007/s00382-017-3835-2>.
- Bourlès, B., et al. (2019), PIRATA: A Sustained Observing System for Tropical Atlantic Climate Research and Forecasting, *Earth and Space Science*, 6(4), 577-616, doi: <https://doi.org/10.1029/2018EA000428>.
- Boyd, P. W., H. Claustre, M. Levy, D. A. Siegel, and T. Weber (2019), Multi-faceted particle

- pumps drive carbon sequestration in the ocean, *Nature*, 568(7752), 327-335, doi: <https://doi.org/10.1038/s41586-019-1098-2>.
- Brakstad, A., K. Våge, L. Håvik, and G. W. K. Moore (2019), Water Mass Transformation in the Greenland Sea during the Period 1986–2016, *J. Phys. Oceanogr.*, 49(1), 121-140, doi: <https://doi.org/10.1175/JPO-D-17-0273.1>.
- Buckley, M. W., T. DelSole, M. S. Lozier, and L. Li (2019), Predictability of North Atlantic Sea Surface Temperature and Upper-Ocean Heat Content, *J. Clim.*, 32(10), 3005-3023, doi: <https://doi.org/10.1175/JCLI-D-18-0509.1>.
- Bushinsky, S. M., P. Landschützer, C. Rödenbeck, A. R. Gray, D. Baker, M. R. Mazloff, L. Resplandy, K. S. Johnson, and J. L. Sarmiento (2019), Reassessing Southern Ocean Air-Sea CO₂ Flux Estimates With the Addition of Biogeochemical Float Observations, *Glob. Biogeochem. Cycle*, 33(11), 1370-1388, doi: <https://doi.org/10.1029/2019GB006176>.
- Bushinsky, S. M., Y. Takeshita, and N. L. Williams (2019), Observing Changes in Ocean Carbonate Chemistry: Our Autonomous Future, *Curr Clim Change Rep*, 5(3), 207-220, doi: <https://doi.org/10.1007/s40641-019-00129-8>.
- Bushuk, M., X. Yang, M. Winton, R. Msadek, M. Harrison, A. Rosati, and R. Gudgel (2019), The Value of Sustained Ocean Observations for Sea Ice Predictions in the Barents Sea, *J. Clim.*, 32(20), 7017-7035, doi: <https://doi.org/10.1175/JCLI-D-19-0179.1>.
- Busireddy, N. K. R., K. Ankur, K. K. Osuri, S. Sivareddy, and D. Niyogi (2019), The response of ocean parameters to tropical cyclones in the Bay of Bengal, *Q. J. R. Meteorol. Soc.*, 145(724), 3320-3332, doi: <https://doi.org/10.1002/qj.3622>.
- Caldwell, P. M., et al. (2019), The DOE E3SM Coupled Model Version 1: Description and Results at High Resolution, *Journal of Advances in Modeling Earth Systems*, 11(12), 4095-4146, doi: <https://doi.org/10.1029/2019MS001870>.
- Callieri, C., et al. (2019), The mesopelagic anoxic Black Sea as an unexpected habitat for *Synechococcus* challenges our understanding of global “deep red fluorescence”, *The ISME Journal*, 13(7), 1676-1687, doi: <https://doi.org/10.1038/s41396-019-0378-z>.
- Campbell, E. C., E. A. Wilson, G. W. K. Moore, S. C. Riser, C. E. Brayton, M. R. Mazloff, and L. D. Talley (2019), Antarctic offshore polynyas linked to Southern Hemisphere climate anomalies, *Nature*, 570(7761), 319-325, doi: <https://doi.org/10.1038/s41586-019-1294-0>.
- Cancet, M., D. Griffin, M. Cahill, B. Chapron, J. Johannessen, and C. Donlon (2019), Evaluation of GlobCurrent surface ocean current products: A case study in Australia, *Remote Sens. Environ.*, 220, 71-93, doi: <https://doi.org/10.1016/j.rse.2018.10.029>.
- Cao, G., T. Xu, Y. He, L. Wang, D. Wang, Z. Wei, and Y. Zhu (2019), Seasonality in Intraseasonal Sea Surface Temperature Variability Along the Sumatra-Java Southern Coast, *Journal of Geophysical Research: Oceans*, 124(7), 5138-5157, doi: <https://doi.org/10.1029/2018JC014853>.
- Cao, K., W. Sun, J. Meng, and J. Zhang (2019), Assessment and comparison of Sea Surface Salinity data derived from SMAP and SMOS based on Argo measurements, *Advances in Marine Science*, 37(4), 574-587, doi: <https://doi.org/10.1002/ams.201900000>.
- Caputi, L., et al. (2019), Community-Level Responses to Iron Availability in Open Ocean Plankton Ecosystems, *Glob. Biogeochem. Cycle*, 33(3), 391-419, doi: <https://doi.org/10.1029/2018GB006176>.

- <https://doi.org/10.1029/2018GB006022>.
- Carton, J. A., S. G. Penny, and E. Kalnay (2019), Temperature and Salinity Variability in the SODA3, ECCO4r3, and ORAS5 Ocean Reanalyses, 1993–2015, *J. Clim.*, *32*(8), 2277–2293, doi: <https://doi.org/10.1175/JCLI-D-18-0605.1>.
- Carvalho, J. P. S., F. B. Costa, D. Mignac, and C. A. S. Tanajura (2019), Assessing the extended-range predictability of the ocean model HYCOM with the REMO ocean data assimilation system (RODAS) in the South Atlantic, *J. Oper. Oceanogr.*, 1–11, doi: <https://doi.org/10.1080/1755876X.2019.1606880>.
- Castellanos, P., E. Olmedo, J. L. Pelegrí, A. Turiel, and E. J. D. Campos (2019), Seasonal Variability of Retroreflection Structures and Transports in the Atlantic Ocean as Inferred from Satellite-Derived Salinity Maps, *Remote Sensing*, *11*(7), 802, doi: <https://doi.org/10.3390/rs11070802>.
- Castillo-Trujillo, A. C., D. Partridge, B. Powell, and P. Flament (2019), Vorticity Balance off the South Shore of Oahu, Hawaii, Derived by High-Frequency Radio Doppler Current Observations, *J. Phys. Oceanogr.*, *49*(1), 211–225, doi: <https://doi.org/10.1175/JPO-D-17-0270.1>.
- Cavan, E. L., E. C. Laurenceau-Cornec, M. Bressac, and P. W. Boyd (2019), Exploring the ecology of the mesopelagic biological pump, *Prog. Oceanogr.*, *176*, 102125, doi: <https://doi.org/10.1016/j.pocean.2019.102125>.
- Cazenave, A., et al. (2019), Observational Requirements for Long-Term Monitoring of the Global Mean Sea Level and Its Components Over the Altimetry Era, *Frontiers in Marine Science*, *6*(582), doi: <https://doi.org/10.3389/fmars.2019.00582>.
- Cedarholm, E. R., I. I. Rypina, A. M. Macdonald, and S. Yoshida (2019), Investigating Subsurface Pathways of Fukushima Cesium in the Northwest Pacific, *Geophys. Res. Lett.*, *46*(12), 6821–6829, doi: <https://doi.org/10.1029/2019GL082500>.
- Centurioni, L. R., et al. (2019), Global in situ Observations of Essential Climate and Ocean Variables at the Air–Sea Interface, *Frontiers in Marine Science*, *6*(419), doi: <https://doi.org/10.3389/fmars.2019.00419>.
- Cerovečki, I., M. C. Hendershott, and E. Yulaeva (2019), Strong North Pacific Subtropical Mode Water Volume and Density Decrease in Year 1999, *Journal of Geophysical Research: Oceans*, *124*(9), 6617–6631, doi: <https://doi.org/10.1029/2019JC014956>.
- Cerovečki, I., A. J. S. Meijers, M. R. Mazloff, S. T. Gille, V. M. Tamsitt, and P. R. Holland (2019), The Effects of Enhanced Sea Ice Export from the Ross Sea on Recent Cooling and Freshening of the Southeast Pacific, *J. Clim.*, *32*(7), 2013–2035, doi: <https://doi.org/10.1175/JCLI-D-18-0205.1>.
- Chacko, N. (2019), Differential chlorophyll blooms induced by tropical cyclones and their relation to cyclone characteristics and ocean pre-conditions in the Indian Ocean, *Journal of Earth System Science*, *128*(7), 177, doi: <https://doi.org/10.1007/s12040-019-1207-5>.
- Chafik, L., and T. Rossby (2019), Volume, Heat, and Freshwater Divergences in the Subpolar North Atlantic Suggest the Nordic Seas as Key to the State of the Meridional Overturning Circulation, *Geophys. Res. Lett.*, *46*(9), 4799–4808, doi: <https://doi.org/10.1029/2019GL082110>.
- Chakraborty, K., N. Kumar, M. S. Girishkumar, G. V. M. Gupta, J. Ghosh, T. V. S. Udaya

- Bhaskar, and V. P. Thangaprakash (2019), Assessment of the impact of spatial resolution on ROMS simulated upper-ocean biogeochemistry of the Arabian Sea from an operational perspective, *J. Oper. Oceanogr.*, 1-27, doi: <https://doi.org/10.1080/1755876X.2019.1588697>.
- Chakraborty, K., et al. (2019), Assessment of model-simulated upper ocean biogeochemical dynamics of the Bay of Bengal, *Journal of Sea Research*, 146, 63-76, doi: <https://doi.org/10.1016/j.seares.2019.01.001>.
- Chang, L., H. Tang, Q. Wang, and W. Sun (2019), Global thermosteric sea level change contributed by the deep ocean below 2000 m estimated by Argo and CTD data, *Earth and Planetary Science Letters*, 524, 115727, doi: <https://doi.org/10.1016/j.epsl.2019.115727>.
- Chatterjee, A., B. P. Kumar, S. Prakash, and P. Singh (2019), Annihilation of the Somali upwelling system during summer monsoon, *Scientific Reports*, 9(1), 7598, doi: <https://doi.org/10.1038/s41598-019-44099-1>.
- Chaudhuri, D., D. Sengupta, E. D'Asaro, R. Venkatesan, and M. Ravichandran (2019), Response of the Salinity-Stratified Bay of Bengal to Cyclone Phailin, *J. Phys. Oceanogr.*, 49(5), 1121-1140, doi: <https://doi.org/10.1175/JPO-D-18-0051.1>.
- Chen, B., H. Qin, G. Chen, and H. Xue (2019), Ocean Salinity as a Precursor of Summer Rainfall over the East Asian Monsoon Region, *J. Clim.*, 32(17), 5659-5676, doi: <https://doi.org/10.1175/JCLI-D-18-0756.1>.
- Chen, C., Y. Gao, F. Yan, T. Jin, and Z. Zhou (2019), Delving into the Two-Dimensional Structure of a Cold Eddy East of Taiwan and Its Impact on Acoustic Propagation, *Acoustics Australia*, 47(2), 185-193, doi: <https://doi.org/10.1007/s40857-019-00160-7>.
- Chen, C., T. Jin, and Z. Zhou (2019), Effect of eddy on acoustic propagation from the surface duct perspective, *Applied Acoustics*, 150, 190-197, doi: <https://doi.org/10.1016/j.apacoust.2019.02.019>.
- Chen, C., K. Yang, and Y. Ma (2019), Sensitivity of sound speed fluctuation on acoustic arrival delay of middle range in deep water, *Applied Acoustics*, 149, 68-73, doi: <https://doi.org/10.1016/j.apacoust.2019.01.020>.
- Chen, G., and D. Geng (2019), A "mirror layer" of temperature and salinity in the ocean, *Climate Dynamics*, 52(1), 1-13, doi: <https://doi.org/10.1007/s00382-018-4495-6>.
- Chen, J., B. Tapley, K.-W. Seo, C. Wilson, and J. Ries (2019), Improved Quantification of Global Mean Ocean Mass Change Using GRACE Satellite Gravimetry Measurements, *Geophys. Res. Lett.*, 46(23), 13984-13991, doi: <https://doi.org/10.1029/2019GL085519>.
- Chen, S., C. Xue, T. Zhang, L. Hu, G. Chen, and J. Tang (2019), Analysis of the Optimal Wavelength for Oceanographic Lidar at the Global Scale Based on the Inherent Optical Properties of Water, *Remote Sensing*, 11(22), 2705, doi: <https://doi.org/10.3390/rs11222705>.
- Chen, X., Z. Liu, H. Wang, D. Xu, and L. Wang (2019), Significant salinity increase in subsurface waters of the South China Sea during 2016–2017, *Acta Oceanol. Sin.*, 38(11), 51-61, doi: <https://doi.org/10.1007/s13131-019-1498-z>.
- Cheng, L., J. Abraham, Z. Hausfather, and K. E. Trenberth (2019), How fast are the oceans

- warming?, *Science*, 363(6423), 128-129, doi:
<http://dx.doi.org/10.1126/science.aav7619>.
- Cheng, L., K. E. Trenberth, J. T. Fasullo, M. Mayer, M. Balmaseda, and J. Zhu (2019), Evolution of Ocean Heat Content Related to ENSO, *J. Clim.*, 32(12), 3529-3556, doi:
<https://doi.org/10.1175/JCLI-D-18-0607.1>.
- Cheng, L., J. Zhu, J. Abraham, K. E. Trenberth, J. T. Fasullo, B. Zhang, F. Yu, L. Wan, X. Chen, and X. Song (2019), 2018 Continues Record Global Ocean Warming, *Adv. Atmos. Sci.*, 36(3), 249-252, doi: <https://doi.org/10.1007/s00376-019-8276-x>.
- Cheon, W. G., and A. L. Gordon (2019), Open-ocean polynyas and deep convection in the Southern Ocean, *Scientific Reports*, 9(1), 6935, doi:
<https://doi.org/10.1038/s41598-019-43466-2>.
- Chi, J., Y. Du, Y. Zhang, X. Nie, P. Shi, and T. Qu (2019), A new perspective of the 2014/15 failed El Niño as seen from ocean salinity, *Scientific Reports*, 9(1), 2720, doi:
<https://doi.org/10.1038/s41598-019-38743-z>.
- Chow, C. H., W. Cheah, J.-H. Tai, and S.-F. Liu (2019), Anomalous wind triggered the largest phytoplankton bloom in the oligotrophic North Pacific Subtropical Gyre, *Scientific Reports*, 9(1), 15550, doi: <https://doi.org/10.1038/s41598-019-51989-x>.
- Ciani, D., R. Santoleri, G. L. Liberti, C. Prigent, C. Donlon, and B. Buongiorno Nardelli (2019), Copernicus Imaging Microwave Radiometer (CIMR) Benefits for the Copernicus Level 4 Sea-Surface Salinity Processing Chain, *Remote Sensing*, 11(15), 1818, doi:
<https://doi.org/10.3390/rs11151818>.
- Ciappa, A. (2019), A study on causes and recurrence of the Mid-Mediterranean Jet from 2003 to 2015 using satellite thermal and altimetry data and CTD casts, *J. Oper. Oceanogr.*, 1-11, doi: <https://doi.org/10.1080/1755876X.2019.1632617>.
- Ciavatta, S., et al. (2019), Ecoregions in the Mediterranean Sea Through the Reanalysis of Phytoplankton Functional Types and Carbon Fluxes, *Journal of Geophysical Research: Oceans*, 124(10), 6737-6759, doi: <https://doi.org/10.1029/2019JC015128>.
- Clavel-Henry, M., J. Solé, M. Á. Ahumada-Sempoal, N. Bahamon, F. Briton, G. Rotllant, and J. B. Company (2019), Influence of the summer deep-sea circulations on passive drifts among the submarine canyons in the northwestern Mediterranean Sea, *Ocean Sci.*, 15(6), 1745-1759, doi: <https://doi.org/10.5194/os-15-1745-2019>.
- Closset, I., D. Cardinal, T. W. Trull, and F. Fripiat (2019), New Insights Into Processes Controlling the $\delta^{30}\text{Si}$ of Sinking Diatoms: A Seasonally Resolved Box Model Approach, *Glob. Biogeochem. Cycle*, 33(8), 957-970, doi:
<https://doi.org/10.1029/2018GB006115>.
- Cobb, A., and A. Czaja (2019), Mesoscale Signature of the North Atlantic Oscillation and Its Interaction With the Ocean, *Geophys. Res. Lett.*, 46(10), 5575-5581, doi:
<https://doi.org/10.1029/2018GL080744>.
- Colin de Verdière, A., T. Meunier, and M. Ollitrault (2019), Meridional Overturning and Heat Transport From Argo Floats Displacements and the Planetary Geostrophic Method (PGM): Application to the subpolar North Atlantic, *Journal of Geophysical Research: Oceans*, 124(8), 6270-6285, doi: <https://doi.org/10.1029/2018JC014565>.
- Conchubhair, D. Ó., D. Fitzhenry, A. Lusher, A. L. King, T. van Emmerik, L. Lebreton, C. Ricaurte-Villota, L. Espinosa, and E. O'Rourke (2019), Joint effort among research

- infrastructures to quantify the impact of plastic debris in the ocean, *Environmental Research Letters*, 14(6), 065001, doi: <http://dx.doi.org/10.1088/1748-9326/ab17ed>.
- Cossarini, G., L. Mariotti, L. Feudale, A. Mignot, S. Salon, V. Taillandier, A. Teruzzi, and F. D'Ortenzio (2019), Towards operational 3D-Var assimilation of chlorophyll Biogeochemical-Argo float data into a biogeochemical model of the Mediterranean Sea, *Ocean Model.*, 133, 112-128, doi: <https://doi.org/10.1016/j.ocemod.2018.11.005>.
- Cyriac, A., M. J. McPhaden, H. E. Phillips, N. L. Bindoff, and M. Feng (2019), Seasonal Evolution of the Surface Layer Heat Balance in the Eastern Subtropical Indian Ocean, *Journal of Geophysical Research: Oceans*, 124(9), 6459-6477, doi: <https://doi.org/10.1029/2018JC014559>.
- Da, N. D., M. Herrmann, R. Morrow, F. Niño, N. M. Huan, and N. Q. Trinh (2019), Contributions of Wind, Ocean Intrinsic Variability, and ENSO to the Interannual Variability of the South Vietnam Upwelling: A Modeling Study, *Journal of Geophysical Research: Oceans*, 124(9), 6545-6574, doi: <https://doi.org/10.1029/2018JC014647>.
- D'Addezio, J. M., S. Smith, G. A. Jacobs, R. W. Helber, C. Rowley, I. Souopgui, and M. J. Carrier (2019), Quantifying wavelengths constrained by simulated SWOT observations in a submesoscale resolving ocean analysis/forecasting system, *Ocean Model.*, 135, 40-55, doi: <https://doi.org/10.1016/j.ocemod.2019.02.001>.
- Dagestad, K.-F., and J. Röhrs (2019), Prediction of ocean surface trajectories using satellite derived vs. modeled ocean currents, *Remote Sens. Environ.*, 223, 130-142, doi: <https://doi.org/10.1016/j.rse.2019.01.001>.
- Davidson, F., et al. (2019), Synergies in Operational Oceanography: The Intrinsic Need for Sustained Ocean Observations, *Frontiers in Marine Science*, 6(450), doi: <https://doi.org/10.3389/fmars.2019.00450>.
- de Marez, C., P. L'Hégaret, M. Morvan, and X. Carton (2019), On the 3D structure of eddies in the Arabian Sea, *Deep Sea Research Part I: Oceanographic Research Papers*, 150, 103057, doi: <https://doi.org/10.1016/j.dsr.2019.06.003>.
- De Mey-Frémaux, P., et al. (2019), Model-Observations Synergy in the Coastal Ocean, *Frontiers in Marine Science*, 6(436), doi: <https://doi.org/10.3389/fmars.2019.00436>.
- de Souza, M. M., M. Mathis, and T. Pohlmann (2019), Driving mechanisms of the variability and long-term trend of the Brazil-Malvinas confluence during the 21st century, *Climate Dynamics*, 53(9), 6453-6468, doi: <https://doi.org/10.1007/s00382-019-04942-7>.
- Delcroix, T., A. Chaigneau, D. Sviadan, J. Boutin, and C. Pegliasco (2019), Eddy-Induced Salinity Changes in the Tropical Pacific, *Journal of Geophysical Research: Oceans*, 124(1), 374-389, doi: <https://doi.org/10.1029/2018JC014394>.
- deYoung, B., et al. (2019), An Integrated All-Atlantic Ocean Observing System in 2030, *Frontiers in Marine Science*, 6(428), doi: <https://doi.org/10.3389/fmars.2019.00428>.
- Diansky, N. A., and V. A. Bagatinsky (2019), Thermohaline Structure of Waters in the North Atlantic in Different Phases of the Atlantic Multidecadal Oscillation, *Izv. Atmos. Ocean. Phys.*, 55(6), 628-639, doi: <https://doi.org/10.1134/S0001433819060021>.
- Dilmahamod, A. F., P. Penven, B. Aguiar-González, C. J. C. Reason, and J. C. Hermes (2019), A New Definition of the South-East Madagascar Bloom and Analysis of Its Variability,

- Journal of Geophysical Research: Oceans*, 124(3), 1717-1735, doi:
<https://doi.org/10.1029/2018JC014582>.
- Dinnat, E. P., D. M. Le Vine, J. Boutin, T. Meissner, and G. Lagerloef (2019), Remote Sensing of Sea Surface Salinity: Comparison of Satellite and In Situ Observations and Impact of Retrieval Parameters, *Remote Sensing*, 11(7), 750, doi:
<https://dx.doi.org/10.3390/rs11070750>.
- Dodd, E. M. A., K. L. Veal, D. J. Ghent, M. R. van den Broeke, and J. J. Remedios (2019), Toward a Combined Surface Temperature Data Set for the Arctic From the Along-Track Scanning Radiometers, *Journal of Geophysical Research: Atmospheres*, 124(13), 6718-6736, doi: <https://doi.org/10.1029/2019JD030262>.
- Doddridge, E. W., J. Marshall, H. Song, J.-M. Campin, M. Kelley, and L. Nazarenko (2019), Eddy Compensation Dampens Southern Ocean Sea Surface Temperature Response to Westerly Wind Trends, *Geophys. Res. Lett.*, 46(8), 4365-4377, doi:
<https://doi.org/10.1029/2019GL082758>.
- Domingues, R., et al. (2019), Ocean Observations in Support of Studies and Forecasts of Tropical and Extratropical Cyclones, *Frontiers in Marine Science*, 6(446), doi:
<https://doi.org/10.3389/fmars.2019.00446>.
- Dossa, A. N., C. Y. Da-Allada, G. Herbert, and B. Bourlès (2019), Seasonal cycle of the salinity barrier layer revealed in the northeastern Gulf of Guinea, *African Journal of Marine Science*, 41(2), 163-175, doi: <https://doi.org/10.2989/1814232X.2019.1616612>.
- Drushka, K., W. E. Asher, J. Sprintall, S. T. Gille, and C. Hoang (2019), Global Patterns of Submesoscale Surface Salinity Variability, *J. Phys. Oceanogr.*, 49(7), 1669-1685, doi:
<https://doi.org/10.1175/JPO-D-19-0018.1>.
- Du, Y., Y. Zhang, and J. Shi (2019), Relationship between sea surface salinity and ocean circulation and climate change, *Sci. China Earth Sci.*, 62(5), 771-782, doi:
<https://doi.org/10.1007/s11430-018-9276-6>.
- Dukhovskoy, D. S., I. Yashayaev, A. Proshutinsky, J. L. Bamber, I. L. Bashmachnikov, E. P. Chassignet, C. M. Lee, and A. J. Tedstone (2019), Role of Greenland Freshwater Anomaly in the Recent Freshening of the Subpolar North Atlantic, *Journal of Geophysical Research: Oceans*, 124(5), 3333-3360, doi:
<https://doi.org/10.1029/2018JC014686>.
- Dushaw, B. D. (2019), Ocean Acoustic Tomography in the North Atlantic, *J. Atmos. Ocean. Technol.*, 36(2), 183-202, doi: <https://doi.org/10.1175/JTECH-D-18-0082.1>.
- Dymova, O. A., N. A. Miklashevskaya, and N. V. Markova (2019), Modeling the Black Sea Deep Circulation with ERA-Interim Forcing in Summer 2013, Springer International Publishing, Cham.
- Eden, C., F. Pollmann, and D. Olbers (2019), Numerical Evaluation of Energy Transfers in Internal Gravity Wave Spectra of the Ocean, *J. Phys. Oceanogr.*, 49(3), 737-749, doi:
<https://doi.org/10.1175/JPO-D-18-0075.1>.
- Emerson, S., B. Yang, M. White, and M. Cronin (2019), Air-Sea Gas Transfer: Determining Bubble Fluxes With In Situ N₂ Observations, *Journal of Geophysical Research: Oceans*, 124(4), 2716-2727, doi: <https://doi.org/10.1029/2018JC014786>.
- Etourneau, J., et al. (2019), Ocean temperature impact on ice shelf extent in the eastern Antarctic Peninsula, *Nature Communications*, 10(1), 304, doi:

- <https://doi.org/10.1038/s41467-018-08195-6>.
- Fan, M., H. Wang, W. Zhang, G. Han, and P. Wang (2019), Evaluation of the China Ocean Reanalysis (CORA) in the South China Sea, *Journal of Oceanology and Limnology*, doi: <https://doi.org/10.1007/s00343-019-9146-1>.
- Fennel, K., et al. (2019), Advancing Marine Biogeochemical and Ecosystem Reanalyses and Forecasts as Tools for Monitoring and Managing Ecosystem Health, *Frontiers in Marine Science*, 6(89), doi: <https://doi.org/10.3389/fmars.2019.00089>.
- Fernández-Castro, B., M. Álvarez, M. Nieto-Cid, P. Zunino, H. Mercier, and X. A. Álvarez-Salgado (2019), Dissolved Organic Nitrogen Production and Export by Meridional Overturning in the Eastern Subpolar North Atlantic, *Geophys. Res. Lett.*, 46(7), 3832-3842, doi: <https://doi.org/10.1029/2018GL080284>.
- Ferrarin, C., et al. (2019), Cross-scale operational oceanography in the Adriatic Sea, *J. Oper. Oceanogr.*, 1-18, doi: <https://doi.org/10.1080/1755876X.2019.1576275>.
- Ferreira, M. B., O. T. Sato, P. S. Polito, and P. S. Bernardo (2019), Examining the Subtropical Mode Water in the Southwestern Atlantic From in Situ Observations, *Journal of Geophysical Research: Oceans*, 124(4), 2513-2526, doi: <https://doi.org/10.1029/2018JC014762>.
- Feucher, C., Y. Garcia-Quintana, I. Yashayaev, X. Hu, and P. G. Myers (2019), Labrador Sea Water Formation Rate and Its Impact on the Local Meridional Overturning Circulation, *Journal of Geophysical Research: Oceans*, 124(8), 5654-5670, doi: <https://doi.org/10.1029/2019JC015065>.
- Feucher, C., G. Maze, and H. Mercier (2019), Subtropical Mode Water and Permanent Pycnocline Properties in the World Ocean, *Journal of Geophysical Research: Oceans*, 124(2), 1139-1154, doi: <https://doi.org/10.1029/2018JC014526>.
- Fiedler, E. K., C. Mao, S. A. Good, J. Waters, and M. J. Martin (2019), Improvements to feature resolution in the OSTIA sea surface temperature analysis using the NEMOVAR assimilation scheme, *Q. J. R. Meteorol. Soc.*, 145(725), 3609-3625, doi: <https://doi.org/10.1002/qj.3644>.
- Fiedler, E. K., et al. (2019), Intercomparison of long-term sea surface temperature analyses using the GHRSSST Multi-Product Ensemble (GMPE) system, *Remote Sens. Environ.*, 222, 18-33, doi: <https://doi.org/10.1016/j.rse.2018.12.015>.
- Foltz, G. R., et al. (2019), The Tropical Atlantic Observing System, *Frontiers in Marine Science*, 6(206), doi: <https://doi.org/10.3389/fmars.2019.00206>.
- Fournier, S., T. Lee, W. Tang, M. Steele, and E. Olmedo (2019), Evaluation and Intercomparison of SMOS, Aquarius, and SMAP Sea Surface Salinity Products in the Arctic Ocean, *Remote Sensing*, 11(24), 3043, doi: <https://doi.org/10.3390/rs11243043>.
- Fox-Kemper, B., et al. (2019), Challenges and Prospects in Ocean Circulation Models, *Frontiers in Marine Science*, 6(65), doi: <https://doi.org/10.3389/fmars.2019.00065>.
- Frajka-Williams, E., et al. (2019), Atlantic Meridional Overturning Circulation: Observed Transport and Variability, *Frontiers in Marine Science*, 6(260), doi: <https://doi.org/10.3389/fmars.2019.00260>.
- Freeland, H., and T. Ross (2019), 'The Blob' - or, how unusual were ocean temperatures in the Northeast Pacific during 2014-2018?, *Deep Sea Research Part I: Oceanographic Research Papers*, 150, 103061, doi: <https://doi.org/10.1016/j.dsr.2019.06.007>.

- Freeman, N. M., D. R. Munro, J. Sprintall, M. R. Mazloff, S. Purkey, I. Rosso, C. A. DeRaneck, and C. Sweeney (2019), The Observed Seasonal Cycle of Macronutrients in Drake Passage: Relationship to Fronts and Utility as a Model Metric, *Journal of Geophysical Research: Oceans*, 124(7), 4763-4783, doi: <https://doi.org/10.1029/2019JC015052>.
- Freilich, M. A., and A. Mahadevan (2019), Decomposition of Vertical Velocity for Nutrient Transport in the Upper Ocean, *J. Phys. Oceanogr.*, 49(6), 1561-1575, doi: <https://doi.org/10.1175/JPO-D-19-0002.1>.
- Fröb, F., A. Olsen, M. Becker, L. Chafik, T. Johannessen, G. Reverdin, and A. Omar (2019), Wintertime fCO₂ Variability in the Subpolar North Atlantic Since 2004, *Geophys. Res. Lett.*, 46(3), 1580-1590, doi: <https://doi.org/10.1029/2018GL080554>.
- Fu, Y., C. Wang, P. Brandt, and R. J. Greatbatch (2019), Interannual Variability of Antarctic Intermediate Water in the Tropical North Atlantic, *Journal of Geophysical Research: Oceans*, 124(6), 4044-4057, doi: <https://doi.org/10.1029/2018JC014878>.
- Fuentes-Franco, R., and T. Koenigk (2019), Sensitivity of the Arctic freshwater content and transport to model resolution, *Climate Dynamics*, 53(3), 1765-1781, doi: <https://doi.org/10.1007/s00382-019-04735-y>.
- Fujii, Y., et al. (2019), Observing System Evaluation Based on Ocean Data Assimilation and Prediction Systems: On-Going Challenges and a Future Vision for Designing and Supporting Ocean Observational Networks, *Frontiers in Marine Science*, 6(417), doi: <https://doi.org/10.3389/fmars.2019.00417>.
- Fulton, E. A., A. E. Punt, C. M. Dichmont, C. J. Harvey, and R. Gorton (2019), Ecosystems say good management pays off, *Fish and Fisheries*, 20(1), 66-96, doi: <https://doi.org/10.1111/faf.12324>.
- Furue, R. (2019), The three-dimensional structure of the Leeuwin Current System in density coordinates in an eddy-resolving OGCM, *Ocean Model.*, 138, 36-50, doi: <https://doi.org/10.1016/j.ocemod.2019.03.001>.
- Futch, V., and A. Allen (2019), Search and Rescue Applications: On the Need to Improve Ocean Observing Data Systems in Offshore or Remote Locations, *Frontiers in Marine Science*, 6(301), doi: <https://doi.org/10.3389/fmars.2019.00301>.
- Gao, M., P. Sherman, S. Song, Y. Yu, Z. Wu, and M. B. McElroy (2019), Seasonal prediction of Indian wintertime aerosol pollution using the ocean memory effect, *Science Advances*, 5(7), eaav4157, doi: <http://dx.doi.org/10.1126/sciadv.aav4157>.
- Garcia-Eidell, C., J. C. Comiso, E. Dinnat, and L. Brucker (2019), Sea Surface Salinity Distribution in the Southern Ocean as Observed From Space, *Journal of Geophysical Research: Oceans*, 124(5), 3186-3205, doi: <https://doi.org/10.1029/2018JC014510>.
- Garcia-Quintana, Y., P. Courtois, X. Hu, C. Pennelly, D. Kieke, and P. G. Myers (2019), Sensitivity of Labrador Sea Water Formation to Changes in Model Resolution, Atmospheric Forcing, and Freshwater Input, *Journal of Geophysical Research: Oceans*, 124(3), 2126-2152, doi: <https://doi.org/10.1029/2018JC014459>.
- Gasparin, F., et al. (2019), Requirements for an Integrated in situ Atlantic Ocean Observing System From Coordinated Observing System Simulation Experiments, *Frontiers in Marine Science*, 6(83), doi: <https://doi.org/10.3389/fmars.2019.00083>.
- Gaube, P., D. J. McGillicuddy Jr., and A. J. Moulin (2019), Mesoscale Eddies Modulate Mixed Layer Depth Globally, *Geophys. Res. Lett.*, 46(3), 1505-1512, doi:

- <https://doi.org/10.1029/2018GL080006>.
- Geng, M., H. Song, Y. Guan, and Y. Bai (2019), Analyzing amplitudes of internal solitary waves in the northern South China Sea by use of seismic oceanography data, *Deep Sea Research Part I: Oceanographic Research Papers*, 146, 1-10, doi: <https://doi.org/10.1016/j.dsr.2019.02.005>.
- Germineaud, C., J.-M. Brankart, and P. Brasseur (2019), An Ensemble-Based Probabilistic Score Approach to Compare Observation Scenarios: An Application to Biogeochemical-Argo Deployments, *J. Atmos. Ocean. Technol.*, 36(12), 2307-2326, doi: <https://doi.org/10.1175/JTECH-D-19-0002.1>.
- Girishkumar, M. S., et al. (2019), Quantifying Tropical Cyclone's Effect on the Biogeochemical Processes Using Profiling Float Observations in the Bay of Bengal, *Journal of Geophysical Research: Oceans*, 124(3), 1945-1963, doi: <https://doi.org/10.1029/2017JC013629>.
- Gittings, J. A., D. E. Raitsos, M. Kheireddine, M.-F. Racault, H. Claustre, and I. Hoteit (2019), Evaluating tropical phytoplankton phenology metrics using contemporary tools, *Scientific Reports*, 9(1), 674, doi: <https://doi.org/10.1038/s41598-018-37370-4>.
- Goes, M., M. Cirano, M. M. Mata, and S. Majumder (2019), Long-Term Monitoring of the Brazil Current Transport at 22°S From XBT and Altimetry Data: Seasonal, Interannual, and Extreme Variability, *Journal of Geophysical Research: Oceans*, 124(6), 3645-3663, doi: <https://doi.org/10.1029/2018JC014809>.
- Gonaduwage, L. P., G. Chen, M. J. McPhaden, T. Priyadarshana, K. Huang, and D. Wang (2019), Meridional and Zonal Eddy-Induced Heat and Salt Transport in the Bay of Bengal and Their Seasonal Modulation, *Journal of Geophysical Research: Oceans*, 124(11), 8079-8101, doi: <https://doi.org/10.1029/2019JC015124>.
- Goni, G. J., et al. (2019), More Than 50 Years of Successful Continuous Temperature Section Measurements by the Global Expendable Bathythermograph Network, Its Integrability, Societal Benefits, and Future, *Frontiers in Marine Science*, 6(452), doi: <https://doi.org/10.3389/fmars.2019.00452>.
- González-Pola, C., et al. (2019), The ICES Working Group on Oceanic Hydrography: A Bridge From In-situ Sampling to the Remote Autonomous Observation Era, *Frontiers in Marine Science*, 6(103), doi: <https://doi.org/10.3389/fmars.2019.00196>.
- Gouretski, V. (2019), A new global ocean hydrographic climatology, *Atmospheric and Oceanic Science Letters*, 1-4, doi: <https://doi.org/10.1080/16742834.2019.1588066>.
- Gouveia, N. A., D. F. M. Gherardi, F. H. Wagner, E. T. Paes, V. J. Coles, and L. E. O. C. Aragão (2019), The Salinity Structure of the Amazon River Plume Drives Spatiotemporal Variation of Oceanic Primary Productivity, *Journal of Geophysical Research: Biogeosciences*, 124(1), 147-165, doi: <https://doi.org/10.1029/2018JG004665>.
- Gregor, L., A. D. Lebehot, S. Kok, and P. M. Scheel Monteiro (2019), A comparative assessment of the uncertainties of global surface ocean CO₂ estimates using a machine-learning ensemble (CSIR-ML6 version 2019a) – have we hit the wall?, *Geosci. Model Dev.*, 12(12), 5113-5136, doi: <https://doi.org/10.5194/gmd-12-5113-2019>.
- Grodsky, S. A., N. Reul, A. Bentamy, D. Vandemark, and S. Guimbard (2019), Eastern Mediterranean salinification observed in satellite salinity from SMAP mission, *J. Mar.*

- Syst.*, 198, 103190, doi: <https://doi.org/10.1016/j.jmarsys.2019.103190>.
- Groom, S., et al. (2019), Satellite Ocean Colour: Current Status and Future Perspective, *Frontiers in Marine Science*, 6(485), doi: <https://doi.org/10.3389/fmars.2019.00485>.
- Guan, C., S. Hu, M. J. McPhaden, F. Wang, S. Gao, and Y. Hou (2019), Dipole Structure of Mixed Layer Salinity in Response to El Niño-La Niña Asymmetry in the Tropical Pacific, *Geophys. Res. Lett.*, 46(21), 12165-12172, doi: <https://doi.org/10.1029/2019GL084817>.
- Guerreiro, C. V., K.-H. Baumann, G.-J. A. Brummer, L. F. Korte, C. Sá, and J.-B. W. Stuit (2019), Transatlantic gradients in calcifying phytoplankton (coccolithophore) fluxes, *Prog. Oceanogr.*, 176, 102140, doi: <https://doi.org/10.1016/j.pocean.2019.102140>.
- Guiavarc'h, C., J. Roberts-Jones, C. Harris, D. J. Lea, A. Ryan, and I. Ascione (2019), Assessment of ocean analysis and forecast from an atmosphere–ocean coupled data assimilation operational system, *Ocean Sci.*, 15(5), 1307-1326, doi: <https://doi.org/10.5194/os-15-1307-2019>.
- Guo, J., T. Zhang, C. Xu, and Q. Xie (2019), Upper ocean response to typhoon Kujira (2015) in the South China Sea by multiple means of observation, *Journal of Oceanology and Limnology*, doi: <https://doi.org/10.1007/s00343-019-9059-z>.
- Guo, M., P. Xiu, F. Chai, and H. Xue (2019), Mesoscale and Submesoscale Contributions to High Sea Surface Chlorophyll in Subtropical Gyres, *Geophys. Res. Lett.*, 46(22), 13217-13226, doi: <https://doi.org/10.1029/2019GL085278>.
- Gutjahr, O., D. Putrasahan, K. Lohmann, J. H. Jungclaus, J. S. von Storch, N. Brüggemann, H. Haak, and A. Stössel (2019), Max Planck Institute Earth System Model (MPI-ESM1.2) for the High-Resolution Model Intercomparison Project (HighResMIP), *Geosci. Model Dev.*, 12(7), 3241-3281, doi: <https://doi.org/10.5194/gmd-12-3241-2019>.
- Gutknecht, E., G. Reffray, A. Mignot, T. Dabrowski, and M. G. Sotillo (2019), Modelling the marine ecosystem of Iberia–Biscay–Ireland (IBI) European waters for CMEMS operational applications, *Ocean Sci.*, 15(6), 1489-1516, doi: <https://doi.org/10.5194/os-15-1489-2019>.
- Haakman, K., J.-M. Sayol, C. G. van der Boog, and C. A. Katsman (2019), Statistical Characterization of the Observed Cold Wake Induced by North Atlantic Hurricanes, *Remote Sensing*, 11(20), 2368, doi: <https://doi.org/10.3390/rs11202368>.
- Hackert, E. C., R. M. Kovach, A. J. Busalacchi, and J. Ballabrera-Poy (2019), Impact of Aquarius and SMAP Satellite Sea Surface Salinity Observations on Coupled El Niño/Southern Oscillation Forecasts, *Journal of Geophysical Research: Oceans*, 124(7), 4546-4556, doi: <https://doi.org/10.1029/2019JC015130>.
- Ham, S., A.-Y. Lim, S. Kang, H. Jeong, Y. Jeong, B. Wang, B. Xiang, S. Wu, and J. X. Fu (2019), A newly developed APCC SCoPS and its prediction of East Asia seasonal climate variability, *Climate Dynamics*, 52(11), 6391-6410, doi: <https://doi.org/10.1007/s00382-018-4516-5>.
- Hamlington, B. D., S. H. Cheon, C. G. Piecuch, K. B. Karnauskas, P. R. Thompson, K.-Y. Kim, J. T. Reager, F. W. Landerer, and T. Frederikse (2019), The Dominant Global Modes of Recent Internal Sea Level Variability, *Journal of Geophysical Research: Oceans*, 124(4), 2750-2768, doi: <https://doi.org/10.1029/2018JC014635>.
- Han, M., Y. Feng, X. Zhao, C. Sun, F. Hong, and C. Liu (2019), A Convolutional Neural

- Network Using Surface Data to Predict Subsurface Temperatures in the Pacific Ocean, *IEEE Access*, 7, 172816-172829, doi: <https://doi.org/10.1109/ACCESS.2019.2955957>.
- Hayes, D. R., S. Dobricic, H. Gildor, and A. Matsikaris (2019), Operational assimilation of glider temperature and salinity for an improved description of the Cyprus eddy, *Deep Sea Research Part II: Topical Studies in Oceanography*, 164, 41-53, doi: <https://doi.org/10.1016/j.dsr2.2019.05.015>.
- He, Y., P. Hu, Y. Yin, Z. Liu, Y. Liu, Y. Hou, and Y. Zhang (2019), Vertical Migration of the Along-Slope Counter-Flow and Its Relation with the Kuroshio Intrusion off Northeastern Taiwan, *Remote Sensing*, 11(22), 2624, doi: <https://doi.org/10.3390/rs11222624>.
- Heimbach, P., et al. (2019), Putting It All Together: Adding Value to the Global Ocean and Climate Observing Systems With Complete Self-Consistent Ocean State and Parameter Estimates, *Frontiers in Marine Science*, 6(55), doi: <https://doi.org/10.3389/fmars.2019.00055>.
- Hennon, T. D., M. H. Alford, and Z. Zhao (2019), Global Assessment of Semidiurnal Internal Tide Aliasing in Argo Profiles, *J. Phys. Oceanogr.*, 49(10), 2523-2533, doi: <https://doi.org/10.1175/JPO-D-19-0121.1>.
- Hermes, J. C., et al. (2019), A Sustained Ocean Observing System in the Indian Ocean for Climate Related Scientific Knowledge and Societal Needs, *Frontiers in Marine Science*, 6(355), doi: <https://doi.org/10.3389/fmars.2019.00355>.
- Holland, L., A. Rowden, J. Hamilton, M. Clark, S. Chiswell, and J. Gardner (2019), A Genetic connectivity of deep-sea corals in the New Zealand region, *New Zealand Aquatic Environment & Biodiversity Report*, Wellington, doi: <https://doi.org/10.1175/JPO-D-18-0098.1>.
- Holmes, R. M., J. D. Zika, and M. H. England (2019), Diathermal Heat Transport in a Global Ocean Model, *J. Phys. Oceanogr.*, 49(1), 141-161, doi: <https://doi.org/10.1175/JPO-D-18-0098.1>.
- Hordoir, R., et al. (2019), Nemo-Nordic 1.0: a NEMO-based ocean model for the Baltic and North seas – research and operational applications, *Geosci. Model Dev.*, 12(1), 363-386, doi: <https://doi.org/10.5194/gmd-12-363-2019>.
- Hormann, V., L. R. Centurioni, and A. L. Gordon (2019), Freshwater export pathways from the Bay of Bengal, *Deep Sea Research Part II: Topical Studies in Oceanography*, 168, 104645, doi: <https://doi.org/10.1016/j.dsr2.2019.104645>.
- Hosoda, S., M. Hirano, T. Hashimukai, S. Asai, and N. Kawakami (2019), New method of temperature and conductivity sensor calibration with improved efficiency for screening SBE41 CTD on Argo floats, *Prog. in Earth and Planet. Sci.*, 6(1), 65, doi: <https://doi.org/10.1186/s40645-019-0310-1>.
- Hristova, H. G., C. Ladd, and P. J. Stabeno (2019), Variability and Trends of the Alaska Gyre From Argo and Satellite Altimetry, *Journal of Geophysical Research: Oceans*, 124(8), 5870-5887, doi: <https://doi.org/10.1029/2019JC015231>.
- Hsu, J.-Y., H. Hendon, M. Feng, and X. Zhou (2019), Magnitude and Phase of Diurnal SST Variations in the ACCESS-S1 Model During the Suppressed Phase of the MJOs, *Journal of Geophysical Research: Oceans*, 124(12), 9553-9571, doi: <https://doi.org/10.1029/2019JC015458>.

- Hu, L., X. Zhang, and M. J. Perry (2019), Light scattering by pure seawater: Effect of pressure, *Deep Sea Research Part I: Oceanographic Research Papers*, 146, 103-109, doi: <https://doi.org/10.1016/j.dsr.2019.03.009>.
- Hu, S., Y. Zhang, M. Feng, Y. Du, J. Sprintall, F. Wang, D. Hu, Q. Xie, and F. Chai (2019), Interannual to Decadal Variability of Upper-Ocean Salinity in the Southern Indian Ocean and the Role of the Indonesian Throughflow, *J. Clim.*, 32(19), 6403-6421, doi: <https://doi.org/10.1175/JCLI-D-19-0056.1>.
- Hu, Z., Y. Qi, X. He, Y.-H. Wang, D.-P. Wang, X. Cheng, X. Liu, and T. Wang (2019), Characterizing surface circulation in the Taiwan Strait during NE monsoon from Geostationary Ocean Color Imager, *Remote Sens. Environ.*, 221, 687-694, doi: <https://doi.org/10.1016/j.rse.2018.12.003>.
- Hua, L., D.-Z. Sun, and Y. Yu (2019), Why do we have El Niño: quantifying a diabatic and nonlinear perspective using observations, *Climate Dynamics*, 52(11), 6705-6717, doi: <https://doi.org/10.1007/s00382-018-4541-4>.
- Huang, B., C. Liu, G. Ren, H.-M. Zhang, and L. Zhang (2019), The Role of Buoy and Argo Observations in Two SST Analyses in the Global and Tropical Pacific Oceans, *J. Clim.*, 32(9), 2517-2535, doi: <https://doi.org/10.1175/JCLI-D-18-0368.1>.
- Huang, C., and Y. Xu (2019), Spatial and seasonal variability of global ocean diapycnal transport inferred from Argo profiles, *Journal of Oceanology and Limnology*, 37(2), 498-512, doi: <https://doi.org/10.1007/s00343-019-7290-2>.
- Irrgang, C., J. Saynisch, and M. Thomas (2019), Estimating global ocean heat content from tidal magnetic satellite observations, *Scientific Reports*, 9(1), 7893, doi: <https://doi.org/10.1038/s41598-019-44397-8>.
- Jackson, L. C., et al. (2019), The Mean State and Variability of the North Atlantic Circulation: A Perspective From Ocean Reanalyses, *Journal of Geophysical Research: Oceans*, 124(12), 9141-9170, doi: <https://doi.org/10.1029/2019JC015210>.
- Jacobs, Z. L., J. P. Grist, R. Marsh, and S. A. Josey (2019), A Subannual Subsurface Pathway From the Gulf Stream to the Subpolar Gyre and Its Role in Warming and Salinification in the 1990s, *Geophys. Res. Lett.*, 46(13), 7518-7526, doi: <https://doi.org/10.1029/2019GL083021>.
- Jayaram, C., T. V. S. Udaya Bhaskar, J. P. Kumar, and D. Swain (2019), Cyclone Enhanced Chlorophyll in the Bay of Bengal as Evidenced from Satellite and BGC-Argo Float Observations, *Journal of the Indian Society of Remote Sensing*, 47(11), 1875-1882, doi: <https://doi.org/10.1007/s12524-019-01034-1>.
- Jena, B., M. Ravichandran, and J. Turner (2019), Recent Reoccurrence of Large Open-Ocean Polynya on the Maud Rise Seamount, *Geophys. Res. Lett.*, 46(8), 4320-4329, doi: <https://doi.org/10.1029/2018GL081482>.
- Jeong, Y., J. Hwang, J. Park, C. J. Jang, and Y.-H. Jo (2019), Reconstructed 3-D Ocean Temperature Derived from Remotely Sensed Sea Surface Measurements for Mixed Layer Depth Analysis, *Remote Sensing*, 11(24), 3018, doi: <https://doi.org/10.3390/rs11243018>.
- Jiang, M., et al. (2019), Fe sources and transport from the Antarctic Peninsula shelf to the southern Scotia Sea, *Deep Sea Research Part I: Oceanographic Research Papers*, 150, 103060, doi: <https://doi.org/10.1016/j.dsr.2019.06.006>.

- Jiang, Y., M. Zhao, C. Hu, L. He, H. Bai, and J. Wang (2019), A parallel FP-growth algorithm on World Ocean Atlas data with multi-core CPU, *The Journal of Supercomputing*, 75(2), 732-745, doi: <https://doi.org/10.1007/s11227-018-2297-6>.
- Johnson, G. C., et al. (2019), Global Oceans: Ocean heat content in the State of the Climate in 2018, *Bull. Am. Meteorol. Soc.*, 100(9), S74 - S76, doi: <https://doi.org/10.1175/2019BAMSStateoftheClimate.1>.
- Johnson, G. C., S. G. Purkey, N. V. Zilberman, and D. Roemmich (2019), Deep Argo Quantifies Bottom Water Warming Rates in the Southwest Pacific Basin, *Geophys. Res. Lett.*, 46(5), 2662-2669, doi: <https://doi.org/10.1029/2018GL081685>.
- Johnson, G. C., J. Reagan, J. M. Lyman, T. Boyer, C. Schmid, and R. Locarnini (2019), Global Oceans: Salinity in the State of the Climate 2018, *Bull. Am. Meteorol. Soc.*, 100(9), S77 - S81, doi: <https://doi.org/10.1175/2019BAMSStateoftheClimate.1>.
- Johnson, K. S., S. C. Riser, and M. Ravichandran (2019), Oxygen Variability Controls Denitrification in the Bay of Bengal Oxygen Minimum Zone, *Geophys. Res. Lett.*, 46(2), 804-811, doi: <https://doi.org/10.1029/2018GL079881>.
- Jones, D. C., E. Boland, A. J. S. Meijers, G. Forget, S. A. Josey, J.-B. Sallee, and E. Shuckburgh (2019), Heat Distribution in the Southeast Pacific Is Only Weakly Sensitive to High-Latitude Heat Flux and Wind Stress, *Journal of Geophysical Research: Oceans*, 124(12), 8647-8666, doi: <https://doi.org/10.1029/2019JC015460>.
- Jones, D. C., H. J. Holt, A. J. S. Meijers, and E. Shuckburgh (2019), Unsupervised Clustering of Southern Ocean Argo Float Temperature Profiles, *Journal of Geophysical Research: Oceans*, 124(1), 390-402, doi: <https://doi.org/10.1029/2018JC014629>.
- Joyce, T. M., Y.-O. Kwon, H. Seo, and C. C. Ummenhofer (2019), Meridional Gulf Stream Shifts Can Influence Wintertime Variability in the North Atlantic Storm Track and Greenland Blocking, *Geophys. Res. Lett.*, 46(3), 1702-1708, doi: <https://doi.org/10.1029/2018GL081087>.
- Jyothi, L., S. Joseph, and S. P (2019), Surface and Sub-surface Ocean Response to Tropical Cyclone Phailin: Role of Pre-existing Oceanic Features, *Journal of Geophysical Research: Oceans*, 124(9), 6515-6530, doi: <https://doi.org/10.1029/2019JC015211>.
- Jyoti, J., P. Swapna, R. Krishnan, and C. V. Naidu (2019), Pacific modulation of accelerated south Indian Ocean sea level rise during the early 21st Century, *Climate Dynamics*, 53(7), 4413-4432, doi: <https://doi.org/10.1007/s00382-019-04795-0>.
- Kakatkar, R., C. Gnanaseelan, J. S. Chowdary, J. S. Deepa, and A. Parekh (2019), Biases in the Tropical Indian Ocean subsurface temperature variability in a coupled model, *Climate Dynamics*, 52(9), 5325-5344, doi: <https://doi.org/10.1007/s00382-018-4455-1>.
- Kalavichchi, K. A., and I. L. Bashmachnikov (2019), Mechanism of a Positive Feedback in Long-Term Variations of the Convergence of Oceanic and Atmospheric Heat Fluxes and of the Ice Cover in the Barents Sea, *Izv. Atmos. Ocean. Phys.*, 55(6), 640-649, doi: <https://doi.org/10.1134/S0001433819060173>.
- Kamidaira, Y., H. Kawamura, T. Kobayashi, and Y. Uchiyama (2019), Development of regional downscaling capability in STEAMER ocean prediction system based on multi-nested ROMS model, *Journal of Nuclear Science and Technology*, 56(8), 752-763, doi: <https://doi.org/10.1080/00223131.2019.1613269>.

- Kämpf, J., and A. Kavi (2019), SST variability in the eastern intertropical Indian Ocean – On the search for trigger mechanisms of IOD events, *Deep Sea Research Part II: Topical Studies in Oceanography*, 166, 64-74, doi: <https://doi.org/10.1016/j.dsr2.2018.11.010>.
- Kashem, M., M. K. Ahmed, F. Qiao, M. A. E. Akhter, and K. M. A. Chowdhury (2019), The response of the upper ocean to tropical cyclone Viyaru over the Bay of Bengal, *Acta Oceanol. Sin.*, 38(1), 61-70, doi: <https://doi.org/10.1007/s13131-019-1370-1>.
- Kataoka, T., M. Kimoto, M. Watanabe, and H. Tatebe (2019), Wind–Mixed Layer–SST Feedbacks in a Tropical Air–Sea Coupled System: Application to the Atlantic, *J. Clim.*, 32(13), 3865–3881, doi: <https://doi.org/10.1175/JCLI-D-18-0728.1>.
- Kaurkin, M. N., and R. A. Ibrayev (2019), Study of Sensitivity of the Algorithm for Assimilating Small Amount of Data in the Ocean Dynamics Model, *Physical Oceanography*, 26(2), 96-103, doi: <http://dx.doi.org/10.22449/1573-160X-2019-2-96-103>.
- Kennedy, J. J., N. A. Rayner, C. P. Atkinson, and R. E. Killick (2019), An Ensemble Data Set of Sea Surface Temperature Change From 1850: The Met Office Hadley Centre HadSST.4.0.0.0 Data Set, *Journal of Geophysical Research: Atmospheres*, 124(14), 7719–7763, doi: <https://doi.org/10.1029/2018JD029867>.
- Kent, E. C., N. A. Rayner, D. I. Berry, R. Eastman, V. G. Grigorieva, B. Huang, J. J. Kennedy, S. R. Smith, and K. M. Willett (2019), Observing Requirements for Long-Term Climate Records at the Ocean Surface, *Frontiers in Marine Science*, 6(441), doi: <https://doi.org/10.3389/fmars.2019.00441>.
- Keppler, L., and P. Landschützer (2019), Regional Wind Variability Modulates the Southern Ocean Carbon Sink, *Scientific Reports*, 9(1), 7384, doi: <https://doi.org/10.1038/s41598-019-43826-y>.
- Kersalé, M., et al. (2019), Shallow and Deep Eastern Boundary Currents in the South Atlantic at 34.5°S: Mean Structure and Variability, *Journal of Geophysical Research: Oceans*, 124(3), 1634–1659, doi: <https://doi.org/10.1029/2018JC014554>.
- Kessler, W. S., H. G. Hristova, and R. E. Davis (2019), Equatorward western boundary transport from the South Pacific: Glider observations, dynamics and consequences, *Prog. Oceanogr.*, 175, 208-225, doi: <https://doi.org/10.1016/j.pocean.2019.04.005>.
- Khazendar, A., et al. (2019), Interruption of two decades of Jakobshavn Isbrae acceleration and thinning as regional ocean cools, *Nat. Geosci.*, 12(4), 277–283, doi: <https://doi.org/10.1038/s41561-019-0329-3>.
- Kim, H. J., T.-W. Kim, K. Hyeong, S.-W. Yeh, J.-Y. Park, C. M. Yoo, and J. Hwang (2019), Suppressed CO₂ Outgassing by an Enhanced Biological Pump in the Eastern Tropical Pacific, *Journal of Geophysical Research: Oceans*, 124(11), 7962–7973, doi: <https://doi.org/10.1029/2019JC015287>.
- Klyuvitkin, A. A., A. G. Ostrovskii, A. P. Lisitzin, and S. K. Konovalov (2019), The Energy Spectrum of the Current Velocity in the Deep Part of the Black Sea, *Dokl. Earth Sc.*, 488(2), 1222–1226, doi: <https://doi.org/10.1134/S1028334X1910012X>.
- Kobashi, F., H. Doi, and N. Iwasaka (2019), Sea Surface Cooling Induced by Extratropical Cyclones in the Subtropical North Pacific: Mechanism and Interannual Variability, *Journal of Geophysical Research: Oceans*, 124(3), 2179–2195, doi: <https://doi.org/10.1029/2018JC014632>.

- Kolodziejczyk, N., W. Llovel, and E. Portela (2019), Interannual Variability of Upper Ocean Water Masses as Inferred From Argo Array, *Journal of Geophysical Research: Oceans*, 124(8), 6067-6085, doi: <https://doi.org/10.1029/2018JC014866>.
- Krishnamohan, K. S., J. Vialard, M. Lengaigne, S. Masson, G. Samson, S. Pous, S. Neetu, F. Durand, S. S. C. Shenoi, and G. Madec (2019), Is there an effect of Bay of Bengal salinity on the northern Indian Ocean climatological rainfall?, *Deep Sea Research Part II: Topical Studies in Oceanography*, 166, 19-33, doi: <https://doi.org/10.1016/j.dsr2.2019.04.003>.
- Krokos, G., V. P. Papadopoulos, S. S. Sofianos, H. Ombao, P. Dybczak, and I. Hoteit (2019), Natural Climate Oscillations may Counteract Red Sea Warming Over the Coming Decades, *Geophys. Res. Lett.*, 46(6), 3454-3461, doi: <https://doi.org/10.1029/2018GL081397>.
- Kubin, E., P.-M. Poulain, E. Mauri, M. Menna, and G. Notarstefano (2019), Levantine Intermediate and Levantine Deep Water Formation: An Argo Float Study from 2001 to 2017, *Water*, 11(9), 1781, doi: <https://doi.org/10.3390/w11091781>.
- Kubryakov, A. A., A. S. Mikaelyan, and S. V. Stanichny (2019), Summer and winter coccolithophore blooms in the Black Sea and their impact on production of dissolved organic matter from Bio-Argo data, *J. Mar. Syst.*, 199, 103220, doi: <https://doi.org/10.1016/j.jmarsys.2019.103220>.
- Kubryakov, A. A., A. G. Zatsepin, and S. V. Stanichny (2019), Anomalous summer-autumn phytoplankton bloom in 2015 in the Black Sea caused by several strong wind events, *J. Mar. Syst.*, 194, 11-24, doi: <https://doi.org/10.1016/j.jmarsys.2019.02.004>.
- Kudryavtsev, V., A. Monzikova, C. Combet, B. Chapron, and N. Reul (2019), A Simplified Model for the Baroclinic and Barotropic Ocean Response to Moving Tropical Cyclones: 2. Model and Simulations, *Journal of Geophysical Research: Oceans*, 124(5), 3462-3485, doi: <https://doi.org/10.1029/2018JC014747>.
- Kudryavtsev, V., A. Monzikova, C. Combet, B. Chapron, N. Reul, and Y. Quilfen (2019), A Simplified Model for the Baroclinic and Barotropic Ocean Response to Moving Tropical Cyclones: 1. Satellite Observations, *Journal of Geophysical Research: Oceans*, 124(5), 3446-3461, doi: <https://doi.org/10.1029/2018JC014746>.
- Kumar, B. P., E. D'Asaro, N. Suresh kumar, and M. Ravichandran (2019), Widespread cooling of the Bay of Bengal by tropical storm Roanu, *Deep Sea Research Part II: Topical Studies in Oceanography*, 168, 104652, doi: <https://doi.org/10.1016/j.dsr2.2019.104652>.
- Kutsuwada, K., A. Kakiuchi, Y. Sasai, H. Sasaki, K. Uehara, and R. Tajima (2019), Wind-driven North Pacific Tropical Gyre using high-resolution simulation outputs, *J. Oceanogr.*, 75(1), 81-93, doi: <https://doi.org/10.1007/s10872-018-0487-8>.
- Lacour, L., N. Briggs, H. Claustre, M. Ardyna, and G. Dall'Olmo (2019), The Intraseasonal Dynamics of the Mixed Layer Pump in the Subpolar North Atlantic Ocean: A Biogeochemical-Argo Float Approach, *Glob. Biogeochem. Cycle*, 33(3), 266-281, doi: <https://doi.org/10.1029/2018GB005997>.
- Lai, Z., G. Jin, Y. Huang, H. Chen, X. Shang, and X. Xiong (2019), The Generation of Nonlinear Internal Waves in the South China Sea: A Three-Dimensional, Nonhydrostatic Numerical Study, *Journal of Geophysical Research: Oceans*, 124(12), 8949-8968, doi:

- <https://doi.org/10.1029/2019JC015283>.
- Langehaug, H. R., A. B. Sandø, M. Årthun, and M. Ilıcak (2019), Variability along the Atlantic water pathway in the forced Norwegian Earth System Model, *Climate Dynamics*, 52(1), 1211-1230, doi: <https://doi.org/10.1007/s00382-018-4184-5>.
- Lara-Lopez, A., I. Hodgson-Johnston, M. Cahill, S. Mancini, P. Blain, and T. Moltmann (2019), From research to end-users, tracing the path of ocean observations in Australia, *Marine and Freshwater Research*, -, doi: <https://doi.org/10.1071/MF18066>.
- Large, W. G., E. G. Patton, A. K. DuVivier, P. P. Sullivan, and L. Romero (2019), Similarity Theory in the Surface Layer of Large-Eddy Simulations of the Wind-, Wave-, and Buoyancy-Forced Southern Ocean, *J. Phys. Oceanogr.*, 49(8), 2165-2187, doi: <https://doi.org/10.1175/JPO-D-18-0066.1>.
- Laxenaire, R., S. Speich, and A. Stegner (2019), Evolution of the Thermohaline Structure of One Agulhas Ring Reconstructed from Satellite Altimetry and Argo Floats, *Journal of Geophysical Research: Oceans*, 124(12), 8969-9003, doi: <https://doi.org/10.1029/2018JC014426>.
- Le Traon, P. Y., et al. (2019), From Observation to Information and Users: The Copernicus Marine Service Perspective, *Frontiers in Marine Science*, 6(234), doi: <https://doi.org/10.3389/fmars.2019.00234>.
- Lee, C. M., et al. (2019), A Framework for the Development, Design and Implementation of a Sustained Arctic Ocean Observing System, *Frontiers in Marine Science*, 6(451), doi: <https://doi.org/10.3389/fmars.2019.00451>.
- Lee, E., and S.-Y. Hong (2019), Impact of the Sea Surface Salinity on Simulated Precipitation in a Global Numerical Weather Prediction Model, *Journal of Geophysical Research: Atmospheres*, 124(2), 719-730, doi: <https://doi.org/10.1029/2018JD029591>.
- Lee, T., S. Fournier, A. L. Gordon, and J. Sprintall (2019), Maritime Continent water cycle regulates low-latitude chokepoint of global ocean circulation, *Nature Communications*, 10(1), 2103, doi: <https://doi.org/10.1038/s41467-019-10109-z>.
- Lenssen, N. J. L., G. A. Schmidt, J. E. Hansen, M. J. Menne, A. Persin, R. Ruedy, and D. Zyss (2019), Improvements in the GISTEMP Uncertainty Model, *Journal of Geophysical Research: Atmospheres*, 124(12), 6307-6326, doi: <https://doi.org/10.1029/2018JD029522>.
- Levin, L. A., et al. (2019), Global Observing Needs in the Deep Ocean, *Frontiers in Marine Science*, 6(241), doi: <https://doi.org/10.3389/fmars.2019.00241>.
- Li, B. F., Y. W. Watanabe, S. Hosoda, K. Sato, and Y. Nakano (2019), Quasi-Real-Time and High-Resolution Spatiotemporal Distribution of Ocean Anthropogenic CO₂, *Geophys. Res. Lett.*, 46(9), 4836-4843, doi: <https://doi.org/10.1029/2018GL081639>.
- Li, D.-Y., and C.-Y. Huang (2019), The influences of ocean on intensity of Typhoon Soudelor (2015) as revealed by coupled modeling, *Atmospheric Science Letters*, 20(1), e871, doi: <https://doi.org/10.1002/asl.871>.
- Li, F., M. S. Lozier, G. Danabasoglu, N. P. Holliday, Y.-O. Kwon, A. Romanou, S. G. Yeager, and R. Zhang (2019), Local and Downstream Relationships between Labrador Sea Water Volume and North Atlantic Meridional Overturning Circulation Variability, *J. Clim.*, 32(13), 3883-3898, doi: <https://doi.org/10.1175/JCLI-D-18-0735.1>.
- Li, G., Y. Zhang, J. Xiao, X. Song, J. Abraham, L. Cheng, and J. Zhu (2019), Examining the

- salinity change in the upper Pacific Ocean during the Argo period, *Climate Dynamics*, 53(9), 6055-6074, doi: <https://doi.org/10.1007/s00382-019-04912-z>.
- Li, Q., S. Lee, M. H. England, and J. L. McClean (2019), Seasonal-to-Interannual Response of Southern Ocean Mixed Layer Depth to the Southern Annular Mode from a Global 1/10° Ocean Model, *J. Clim.*, 32(18), 6177-6195, doi: <https://doi.org/10.1175/JCLI-D-19-0159.1>.
- Li, Q., et al. (2019), Comparing Ocean Surface Boundary Vertical Mixing Schemes Including Langmuir Turbulence, *Journal of Advances in Modeling Earth Systems*, 11(11), 3545-3592, doi: <https://doi.org/10.1029/2019MS001810>.
- Li, S., S. Wang, F. Zhang, and Y. Wang (2019), Constructing the Three-Dimensional Structure of an Anticyclonic Eddy in the South China Sea Using Multiple Underwater Gliders, *J. Atmos. Ocean. Technol.*, 36(12), 2449-2470, doi: <https://doi.org/10.1175/JTECH-D-19-0006.1>.
- Li, X., and Y.-Y. Luo (2019), Inter-annual variations of the eastern subtropical mode waters in the Pacific Ocean and their formation mechanisms, *Periodical of Ocean University of China*, 49(2), 1-13, doi: <https://doi.org/10.1175/JTECH-D-19-0006.1>.
- Li, Y., Q. Dong, and Y. Ren (2019), Aquarius Sea Surface Salinity Gridding Method Based on Dual Quality-Distance Weighting, *Remote Sensing*, 11(9), 1131, doi: <https://doi.org/10.3390/rs11091131>.
- Li, Z., J. Wang, and L.-L. Fu (2019), An Observing System Simulation Experiment for Ocean State Estimation to Assess the Performance of the SWOT Mission: Part 1—A Twin Experiment, *Journal of Geophysical Research: Oceans*, 124(7), 4838-4855, doi: <https://doi.org/10.1029/2018JC014869>.
- Lian, Z., B. Sun, Z. Wei, Y. Wang, and X. Wang (2019), A study of intra-seasonal variations in the subsurface water temperatures in the South China Sea, *Acta Oceanol. Sin.*, 38(4), 97-105, doi: <https://doi.org/10.1007/s13131-018-1337-7>.
- Liang, L., H. Xue, and Y. Shu (2019), The Indonesian Throughflow and the Circulation in the Banda Sea: A Modeling Study, *Journal of Geophysical Research: Oceans*, 124(5), 3089-3106, doi: <https://doi.org/10.1029/2018JC014926>.
- Liang, X., M. Losch, L. Nerger, L. Mu, Q. Yang, and C. Liu (2019), Using Sea Surface Temperature Observations to Constrain Upper Ocean Properties in an Arctic Sea Ice-Ocean Data Assimilation System, *Journal of Geophysical Research: Oceans*, 124(7), 4727-4743, doi: <https://doi.org/10.1029/2019JC015073>.
- Liang, Z., T. Xing, Y. Wang, and L. Zeng (2019), Mixed Layer Heat Variations in the South China Sea Observed by Argo Float and Reanalysis Data during 2012–2015, *Sustainability*, 11(19), 5429, doi: <https://doi.org/10.3390/su11195429>.
- Lima, L. N., L. P. Pezzi, S. G. Penny, and C. A. S. Tanajura (2019), An Investigation of Ocean Model Uncertainties Through Ensemble Forecast Experiments in the Southwest Atlantic Ocean, *Journal of Geophysical Research: Oceans*, 124(1), 432-452, doi: <https://doi.org/10.1029/2018JC013919>.
- Lin, W., F. Zhai, Y. Gu, and P. Li (2019), Decadal variations of the North Pacific Tropical Water at 137°E, *Journal of Oceanology and Limnology*, 37(5), 1495-1509, doi: <https://doi.org/10.1007/s00343-019-8123-z>.
- Lin, X., Y. Qiu, J. Cha, and X. Guo (2019), Assessment of Aquarius sea surface salinity with

- Argo in the Bay of Bengal, *Int. J. Remote Sens.*, 40(22), 8547-8565, doi: <https://doi.org/10.1080/01431161.2019.1615654>.
- Lin, X., Y. Qiu, and D. Sun (2019), Thermohaline Structures and Heat/Freshwater Transports of Mesoscale Eddies in the Bay of Bengal Observed by Argo and Satellite Data, *Remote Sensing*, 11(24), 2989, doi: <https://doi.org/10.3390/rs11242989>.
- Liu, C., X. Liang, R. M. Ponte, N. Vinogradova, and O. Wang (2019), Vertical redistribution of salt and layered changes in global ocean salinity, *Nature Communications*, 10(1), 3445, doi: <https://doi.org/10.1038/s41467-019-11436-x>.
- Liu, C., L. Xu, S.-P. Xie, and P. Li (2019), Effects of Anticyclonic Eddies on the Multicore Structure of the North Pacific Subtropical Mode Water Based on Argo Observations, *Journal of Geophysical Research: Oceans*, 124(11), 8400-8413, doi: <https://doi.org/10.1029/2019JC015631>.
- Liu, H., X. Lin, and J. Lan (2019), Salt Sinking in the Upper South Pacific Subtropical Gyre From 2004 to 2016, *Journal of Geophysical Research: Oceans*, 124(10), 7011-7029, doi: <https://doi.org/10.1029/2019JC015270>.
- Liu, H., L. Yu, and X. Lin (2019), Recent Decadal Change in the North Atlantic Subtropical Underwater Associated With the Poleward Expansion of the Surface Salinity Maximum, *Journal of Geophysical Research: Oceans*, 124(7), 4433-4448, doi: <https://doi.org/10.1029/2018JC014508>.
- Liu, W., A. Fedorov, and F. Sévellec (2019), The Mechanisms of the Atlantic Meridional Overturning Circulation Slowdown Induced by Arctic Sea Ice Decline, *J. Clim.*, 32(4), 977-996, doi: <https://doi.org/10.1175/JCLI-D-18-0231.1>.
- Liu, Y., and X. Xing (2019), An improvement on climatology-based correction method of Argo-observed dissolved oxygen data, *Oceanologia et Limnologia Sinica*, 50(5), 994-1001, doi: <https://doi.org/10.1007/s00343-019-8290-y>.
- Liu, Y., and X. Xing (2019), Sensor principle and quality control of the dissolved oxygen data observed using Argo floats, *Marine Sciences*, 43(1), 28-37, doi: <https://doi.org/10.1007/s00343-019-8290-y>.
- Liu, Z., X. Chen, J. Yu, D. Xu, and C. Sun (2019), Kuroshio intrusion into the South China Sea with an anticyclonic eddy: evidence from underwater glider observation, *Journal of Oceanology and Limnology*, 37(5), 1469-1480, doi: <https://doi.org/10.1007/s00343-019-8290-y>.
- Llovel, W., S. Purkey, B. Meyssignac, A. Blazquez, N. Kolodziejczyk, and J. Bamber (2019), Global ocean freshening, ocean mass increase and global mean sea level rise over 2005–2015, *Scientific Reports*, 9(1), 17717, doi: <https://doi.org/10.1038/s41598-019-54239-2>.
- Lombard, F., et al. (2019), Globally Consistent Quantitative Observations of Planktonic Ecosystems, *Frontiers in Marine Science*, 6(196), doi: <https://doi.org/10.3389/fmars.2019.00196>.
- Lopes, C. L., L. Bastos, M. Caetano, I. Martins, M. M. Santos, and I. Iglesias (2019), Development of physical modelling tools in support of risk scenarios: A new framework focused on deep-sea mining, *Science of The Total Environment*, 650, 2294-2306, doi: <https://doi.org/10.1016/j.scitotenv.2018.09.351>.
- Lozier, M. S., et al. (2019), A sea change in our view of overturning in the subpolar North Atlantic, *Science*, 363(6426), 516-521, doi: <http://dx.doi.org/10.1126/science.aau6592>.

- Lu, W., H. Su, X. Yang, and X.-H. Yan (2019), Subsurface temperature estimation from remote sensing data using a clustering-neural network method, *Remote Sens. Environ.*, 229, 213-222, doi: <https://doi.org/10.1016/j.rse.2019.04.009>.
- Lübbecke, J. F., P. Brandt, M. Dengler, R. Kopte, J. Lüdke, I. Richter, M. Sena Martins, and P. C. M. Tchipalanga (2019), Causes and evolution of the southeastern tropical Atlantic warm event in early 2016, *Climate Dynamics*, 53(1), 261-274, doi: <https://doi.org/10.1007/s00382-018-4582-8>.
- Lundrigan, S., and E. Demirov (2019), Mean and Eddy-Driven Heat Advection in the Ocean Region Adjacent to the Greenland-Scotland Ridge Derived From Satellite Altimetry, *Journal of Geophysical Research: Oceans*, 124(3), 2239-2260, doi: <https://doi.org/10.1029/2018JC014854>.
- Ma, C., S. Li, A. Wang, J. Yang, and G. Chen (2019), Altimeter Observation-Based Eddy Nowcasting Using an Improved Conv-LSTM Network, *Remote Sensing*, 11(7), 783, doi: <https://dx.doi.org/10.3390/rs11070783>.
- Ma, T., Y. Qi, and X. Cheng (2019), Intraseasonal-semiannual variability of barrier layer thickness in the eastern equatorial Indian Ocean and Bay of Bengal, *Journal of Tropical Oceanography*, 38(5), 18-31, doi: <https://doi.org/10.1007/s11430-018-9292-3>.
- Ma, Y., S. Zhang, Y. Qi, and Z. Jing (2019), Upper ocean near-inertial response to the passage of two sequential typhoons in the northwestern South China Sea, *Sci. China Earth Sci.*, 62(5), 863-871, doi: <https://doi.org/10.1007/s11430-018-9292-3>.
- Macovei, V. A., S. Torres-Valdés, S. E. Hartman, U. Schuster, C. M. Moore, P. J. Brown, D. J. Hydes, and R. J. Sanders (2019), Temporal Variability in the Nutrient Biogeochemistry of the Surface North Atlantic: 15 Years of Ship of Opportunity Data, *Glob. Biogeochem. Cycle*, 33(12), 1674-1692, doi: <https://doi.org/10.1029/2018GB006132>.
- Makarim, S., J. Sprintall, Z. Liu, W. Yu, A. Santoso, X.-H. Yan, and R. D. Susanto (2019), Previously unidentified Indonesian Throughflow pathways and freshening in the Indian Ocean during recent decades, *Scientific Reports*, 9(1), 7364, doi: <https://doi.org/10.1038/s41598-019-43841-z>.
- Mallick, S. K., N. Agarwal, R. Sharma, K. V. S. R. Prasad, and R. A. Weller (2019), Impact of Satellite-Derived Diffuse Attenuation Coefficient on Upper Ocean Simulation Using High-Resolution Numerical Ocean Model: Case Study for the Bay of Bengal, *Mar. Geod.*, 42(6), 535-557, doi: <https://doi.org/10.1080/01490419.2019.1664677>.
- Maneesha, K., D. H. Prasad, and K. V. K. R. K. Patnaik (2019), Biophysical responses to tropical cyclone Hudhud over the Bay of Bengal, *J. Oper. Oceanogr.*, 1-11, doi: <https://doi.org/10.1080/1755876X.2019.1684135>.
- Manizza, M., D. Menemenlis, H. Zhang, and C. E. Miller (2019), Modeling the Recent Changes in the Arctic Ocean CO₂ Sink (2006–2013), *Glob. Biogeochem. Cycle*, 33(3), 420-438, doi: <https://doi.org/10.1029/2018GB006070>.
- Mao, H., M. Feng, H. E. Phillips, and S. Lian (2019), Mesoscale eddy characteristics in the interior subtropical southeast Indian Ocean, tracked from the Leeuwin Current system, *Deep Sea Research Part II: Topical Studies in Oceanography*, 161, 52-62, doi: <https://doi.org/10.1016/j.dsr2.2018.07.003>.
- Marchese, C., L. Castro de la Guardia, P. G. Myers, and S. Bélanger (2019), Regional

- differences and inter-annual variability in the timing of surface phytoplankton blooms in the Labrador Sea, *Ecological Indicators*, 96, 81-90, doi: <https://doi.org/10.1016/j.ecolind.2018.08.053>.
- Marchi, S., T. Fichfet, H. Goosse, V. Zunz, S. Tietsche, J. J. Day, and E. Hawkins (2019), Reemergence of Antarctic sea ice predictability and its link to deep ocean mixing in global climate models, *Climate Dynamics*, 52(5), 2775-2797, doi: <https://doi.org/10.1007/s00382-018-4292-2>.
- Margolskee, A., H. Frenzel, S. Emerson, and C. Deutsch (2019), Ventilation Pathways for the North Pacific Oxygen Deficient Zone, *Glob. Biogeochem. Cycle*, 33(7), 875-890, doi: <https://doi.org/10.1029/2018GB006149>.
- Markova, N. V., O. A. Dymova, and S. G. Demyshev (2019), Numerical Simulations of the Black Sea Hydrophysical Fields Below the Main Pycnocline: Validation by ARGO Data, Springer International Publishing, Cham.
- Marta-Almeida, M., G. C. Lessa, A. L. Aguiar, F. N. Amorim, and M. Cirano (2019), Realistic modelling of shelf-estuary regions, *Ocean Dyn.*, 69(11), 1311-1331, doi: <https://doi.org/10.1007/s10236-019-01304-z>.
- Martín Míguez, B., et al. (2019), The European Marine Observation and Data Network (EMODnet): Visions and Roles of the Gateway to Marine Data in Europe, *Frontiers in Marine Science*, 6(313), doi: <https://doi.org/10.3389/fmars.2019.00313>.
- Martin, M. J., R. R. King, J. While, and A. B. Aguiar (2019), Assimilating satellite sea-surface salinity data from SMOS, Aquarius and SMAP into a global ocean forecasting system, *Q. J. R. Meteorol. Soc.*, 145(719), 705-726, doi: <https://doi.org/10.1002/qj.3461>.
- Martini, K. I., D. J. Murphy, R. W. Schmitt, and N. G. Larson (2019), Corrections for Pumped SBE 41CP CTDs Determined from Stratified Tank Experiments, *J. Atmos. Ocean. Technol.*, 36(4), 733-744, doi: <https://doi.org/10.1175/JTECH-D-18-0050.1>.
- Mattern, J. P., and C. A. Edwards (2019), A Simple Finite Difference-Based Approximation for Biogeochemical Tangent Linear and Adjoint Models, *Journal of Geophysical Research: Oceans*, 124(1), 4-26, doi: <https://doi.org/10.1029/2018JC014283>.
- Mauri, E., L. Sitz, R. Gerin, P.-M. Poulain, D. Hayes, and H. Gildor (2019), On the Variability of the Circulation and Water Mass Properties in the Eastern Levantine Sea between September 2016–August 2017, *Water*, 11(9), 1741, doi: <https://www.mdpi.com/2073-4441/11/9/1741>.
- McMahon, C. R., M. A. Hindell, J.-B. Charrassin, S. Corney, C. Guinet, R. Harcourt, I. Jonsen, R. Trebilco, G. Williams, and S. Bestley (2019), Finding mesopelagic prey in a changing Southern Ocean, *Scientific Reports*, 9(1), 19013, doi: <https://doi.org/10.1038/s41598-019-55152-4>.
- Meehl, G. A., J. M. Arblaster, C. T. Y. Chung, M. M. Holland, A. DuVivier, L. Thompson, D. Yang, and C. M. Bitz (2019), Sustained ocean changes contributed to sudden Antarctic sea ice retreat in late 2016, *Nature Communications*, 10(1), 14, doi: <https://doi.org/10.1038/s41467-018-07865-9>.
- Meijers, A., J. B. Sallee, A. Grey, K. Johnson, K. Arrigo, S. Swart, B. King, and M. Mazloff (2019), Southern Ocean in the State of the Climate in 2018, *Bull. Am. Meteorol. Soc.*, 100, doi: <http://dx.doi.org/10.1175/2019BAMSStateoftheClimate.1>.

- Meijers, A., J. B. Sallee, A. Grey, K. Johnson, K. R. Arrigo, S. Swart, B. King, M. P. Meredith, and M. Mazloff (2019), Antarctica and the Southern Ocean: Southern Ocean in the State of the Climate in 2018, *Bull. Am. Meteorol. Soc.*, 100(9), S181-S184, doi: <https://doi.org/10.1175/2019BAMSStateoftheClimate.1>.
- Meijers, A. J. S., I. Cerovečki, B. A. King, and V. Tamsitt (2019), A See-Saw in Pacific Subantarctic Mode Water Formation Driven by Atmospheric Modes, *Geophys. Res. Lett.*, 46(22), 13152-13160, doi: <https://doi.org/10.1029/2019GL085280>.
- Meinen, C. S., W. E. Johns, B. I. Moat, R. H. Smith, E. M. Johns, D. Rayner, E. Frajka-Williams, R. F. Garcia, and S. L. Garzoli (2019), Structure and Variability of the Antilles Current at 26.5°N, *Journal of Geophysical Research: Oceans*, 124(6), 3700-3723, doi: <https://doi.org/10.1029/2018JC014836>.
- Melzer, B. A., T. G. Jensen, and A. V. Rydbeck (2019), Evolution of the Great Whirl Using an Altimetry-Based Eddy Tracking Algorithm, *Geophys. Res. Lett.*, 46(8), 4378-4385, doi: <https://doi.org/10.1029/2018GL081781>.
- Ménesguen, C., A. Delpech, F. Marin, S. Cravatte, R. Schopp, and Y. Morel (2019), Observations and Mechanisms for the Formation of Deep Equatorial and Tropical Circulation, *Earth and Space Science*, 6(3), 370-386, doi: <https://doi.org/10.1029/2018EA000438>.
- Menezes, V. V., and M. L. Vianna (2019), Quasi-biennial Rossby and Kelvin waves in the South Indian Ocean: Tropical and subtropical modes and the Indian Ocean Dipole, *Deep Sea Research Part II: Topical Studies in Oceanography*, 166, 43-63, doi: <https://doi.org/10.1016/j.dsr2.2019.05.002>.
- Menna, M., P.-M. Poulain, D. Ciani, A. Doglioli, G. Notarstefano, R. Gerin, M.-H. Rio, R. Santoleri, A. Gauci, and A. Drago (2019), New Insights of the Sicily Channel and Southern Tyrrhenian Sea Variability, *Water*, 11(7), 1355, doi: <https://doi.org/10.3390/w11071355>.
- Menze, S., D. Zitterbart, M. Biuw, and O. Boebel (2019), Estimating the spatial distribution of vocalizing animals from ambient sound spectra using widely spaced recorder arrays and inverse modelling, *The Journal of the Acoustical Society of America*, 146(6), 4699-4717, doi: <https://doi.org/10.1121/1.5139406>.
- Meunier, T., E. P. Sanz, M. Tenreiro, J. Ochoa, A. R. Angulo, and C. Buckingham (2019), Observations of Layering under a Warm-Core Ring in the Gulf of Mexico, *J. Phys. Oceanogr.*, 49(12), 3145-3162, doi: <https://doi.org/10.1175/JPO-D-18-0138.1>.
- Meyssignac, B., et al. (2019), Measuring Global Ocean Heat Content to Estimate the Earth Energy Imbalance, *Frontiers in Marine Science*, 6(432), doi: <https://doi.org/10.3389/fmars.2019.00432>.
- Meza-Padilla, R., C. Enriquez, Y. Liu, and C. M. Appendini (2019), Ocean Circulation in the Western Gulf of Mexico Using Self-Organizing Maps, *Journal of Geophysical Research: Oceans*, 124(6), 4152-4167, doi: <https://doi.org/10.1029/2018JC014377>.
- Mignot, A., F. D'Ortenzio, V. Taillandier, G. Cossarini, and S. Salon (2019), Quantifying Observational Errors in Biogeochemical-Argo Oxygen, Nitrate, and Chlorophyll a Concentrations, *Geophys. Res. Lett.*, 46(8), 4330-4337, doi: <https://doi.org/10.1029/2018GL080541>.
- Miron, P., F. J. Beron-Vera, M. J. Olascoaga, G. Froyland, P. Pérez-Brunius, and J. Sheinbaum

- (2019), Lagrangian Geography of the Deep Gulf of Mexico, *J. Phys. Oceanogr.*, 49(1), 269-290, doi: <https://doi.org/10.1175/JPO-D-18-0073.1>.
- Mittal, T., and B. Delbridge (2019), Detection of the 2012 Havre submarine eruption plume using Argo floats and its implications for ocean dynamics, *Earth and Planetary Science Letters*, 511, 105-116, doi: <https://doi.org/10.1016/j.epsl.2019.01.035>.
- Miyazawa, Y., A. Kuwano-Yoshida, T. Doi, H. Nishikawa, T. Narazaki, T. Fukuoka, and K. Sato (2019), Temperature profiling measurements by sea turtles improve ocean state estimation in the Kuroshio-Oyashio Confluence region, *Ocean Dyn.*, 69(2), 267-282, doi: <https://doi.org/10.1007/s10236-018-1238-5>.
- Moltmann, T., et al. (2019), A Global Ocean Observing System (GOOS), Delivered Through Enhanced Collaboration Across Regions, Communities, and New Technologies, *Frontiers in Marine Science*, 6(291), doi: <https://doi.org/10.3389/fmars.2019.00291>.
- Moore, A. M., et al. (2019), Synthesis of Ocean Observations Using Data Assimilation for Operational, Real-Time and Reanalysis Systems: A More Complete Picture of the State of the Ocean, *Frontiers in Marine Science*, 6(90), doi: <https://doi.org/10.3389/fmars.2019.00090>.
- Mork, K. A., Ø. Skagseth, and H. Søliland (2019), Recent Warming and Freshening of the Norwegian Sea Observed by Argo Data, *J. Clim.*, 32(12), 3695-3705, doi: <https://journals.ametsoc.org/doi/abs/10.1175/JCLI-D-18-0591.1>.
- Morris, T., B. Aguiar-González, I. Ansorge, and J. Hermes (2019), Lagrangian Evolution of Two Madagascar Cyclonic Eddies: Geometric Properties, Vertical Structure, and Fluxes, *Journal of Geophysical Research: Oceans*, 124(11), 8193-8218, doi: <https://doi.org/10.1029/2019JC015090>.
- Morris, T., and T. Lamont (2019), Using ocean robots on high-resolution profiling to capture the fast-flowing Agulhas Current, *South African Journal of Science*, 115, 1-3, doi: <http://dx.doi.org/10.17159/sajs.2019/5523>.
- Mu, Z., W. Zhang, P. Wang, H. Wang, and X. Yang (2019), Assimilation of SMOS Sea Surface Salinity in the Regional Ocean Model for South China Sea, *Remote Sensing*, 11(8), 919, doi: <https://doi.org/10.3390/rs11080919>.
- Müller, V., D. Kieke, P. G. Myers, C. Pennelly, R. Steinfeldt, and I. Stendaro (2019), Heat and Freshwater Transport by Mesoscale Eddies in the Southern Subpolar North Atlantic, *Journal of Geophysical Research: Oceans*, 124(8), 5565-5585, doi: <https://doi.org/10.1029/2018JC014697>.
- Nan, F., F. Yu, Q. Ren, C. Wei, Y. Liu, and S. Sun (2019), Isopycnal mixing of interhemispheric intermediate waters by subthermocline eddies east of the Philippines, *Scientific Reports*, 9(1), 2957, doi: <https://doi.org/10.1038/s41598-019-39596-2>.
- Napolitano, D. C., I. C. A. d. Silveira, C. B. Rocha, G. R. Flierl, P. H. R. Calil, and R. P. Martins (2019), On the Steadiness and Instability of the Intermediate Western Boundary Current between 24° and 18°S, *J. Phys. Oceanogr.*, 49(12), 3127-3143, doi: <https://doi.org/10.1175/JPO-D-19-0011.1>.
- Napolitano, E., R. Iacono, T. Ciuffardi, F. Reseghetti, P.-M. Poulain, and G. Notarstefano (2019), The Tyrrhenian Intermediate Water (TIW): Characterization and formation mechanisms, *Prog. Oceanogr.*, 170, 53-68, doi: <https://doi.org/10.1016/j.pocean.2018.10.017>.

- Newman, L., et al. (2019), Delivering Sustained, Coordinated, and Integrated Observations of the Southern Ocean for Global Impact, *Frontiers in Marine Science*, 6(433), doi: <https://doi.org/10.3389/fmars.2019.00433>.
- Nichols, R. E., and B. Subrahmanyam (2019), Estimation of Surface Freshwater Fluxes in the Arctic Ocean Using Satellite-Derived Salinity, *Remote Sensing in Earth Systems Sciences*, 2(4), 247-259, doi: <https://doi.org/10.1007/s41976-019-00027-5>.
- Nigam, T., K. R. Prakash, and V. Pant (2019), An assessment of the impact of oceanic initial conditions on the interaction of upper ocean with the tropical cyclones in the Arabian Sea, *J. Oper. Oceanogr.*, 1-17, doi: <https://doi.org/10.1080/1755876X.2019.1658567>.
- Ning, J., Q. Xu, T. Feng, H. Zhang, and T. Wang (2019), Upper Ocean Response to Two Sequential Tropical Cyclones over the Northwestern Pacific Ocean, *Remote Sensing*, 11(20), 2431, doi: <https://doi.org/10.3390/rs11202431>.
- Ning, J., Q. Xu, H. Zhang, T. Wang, and K. Fan (2019), Impact of Cyclonic Ocean Eddies on Upper Ocean Thermodynamic Response to Typhoon Soudelor, *Remote Sensing*, 11(8), 938, doi: <https://doi.org/10.3390/rs11080938>.
- O'Carroll, A. G., et al. (2019), Observational Needs of Sea Surface Temperature, *Frontiers in Marine Science*, 6(420), doi: <https://doi.org/10.3389/fmars.2019.00420>.
- O'Kane, T. J., P. A. Sandery, D. P. Monselesan, P. Sakov, M. A. Chamberlain, R. J. Matear, M. A. Collier, D. T. Squire, and L. Stevens (2019), Coupled Data Assimilation and Ensemble Initialization with Application to Multiyear ENSO Prediction, *J. Clim.*, 32(4), 997-1024, doi: <https://doi.org/10.1175/JCLI-D-18-0189.1>.
- Ohishi, S., H. Aiki, T. Tozuka, and M. F. Cronin (2019), Frontolysis by surface heat flux in the eastern Japan Sea: importance of mixed layer depth, *J. Oceanogr.*, 75(3), 283-297, doi: <https://doi.org/10.1007/s10872-018-0502-0>.
- Ohishi, S., S. Katsura, and H. Aiki (2019), Salinity frontogenesis/frontolysis in the northeastern subtropical Pacific region, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-019-04907-w>.
- Oke, P. R., G. S. Pilo, K. Ridgway, A. Kiss, and T. Rykova (2019), A search for the Tasman Front, *J. Mar. Syst.*, 199, 103217, doi: <https://doi.org/10.1016/j.jmarsys.2019.103217>.
- Oke, P. R., et al. (2019), Revisiting the circulation of the East Australian Current: Its path, separation, and eddy field, *Prog. Oceanogr.*, 176, 102139, doi: <https://doi.org/10.1016/j.pocean.2019.102139>.
- Olbers, D., C. Eden, E. Becker, F. Pollmann, and J. Jungclaus (2019), The IDEMIX Model: Parameterization of Internal Gravity Waves for Circulation Models of Ocean and Atmosphere, in *Energy Transfers in Atmosphere and Ocean*, edited by C. Eden and A. Iske, pp. 87-125, Springer International Publishing, Cham, doi: https://doi.org/10.1007/978-3-030-05704-6_3.
- Onink, V., D. Wichmann, P. Delandmeter, and E. van Sebille (2019), The Role of Ekman Currents, Geostrophy, and Stokes Drift in the Accumulation of Floating Microplastic, *Journal of Geophysical Research: Oceans*, 124(3), 1474-1490, doi: <https://doi.org/10.1029/2018JC014547>.
- Organelli, E., and H. Claustre (2019), Small Phytoplankton Shapes Colored Dissolved Organic Matter Dynamics in the North Atlantic Subtropical Gyre, *Geophys. Res. Lett.*, 46(21),

- 12183-12191, doi: <https://doi.org/10.1029/2019GL084699>.
- Orúe-Echevarría, D., J. L. Pelegrí, F. Machín, A. Hernández-Guerra, and M. Emelianov (2019), Inverse Modeling the Brazil-Malvinas Confluence, *Journal of Geophysical Research: Oceans*, 124(1), 527-554, doi: <https://doi.org/10.1029/2018JC014733>.
- Palazov, A., et al. (2019), Black Sea Observing System, *Frontiers in Marine Science*, 6(315), doi: <https://doi.org/10.3389/fmars.2019.00315>.
- Palmer, M. D., et al. (2019), Adequacy of the Ocean Observation System for Quantifying Regional Heat and Freshwater Storage and Change, *Frontiers in Marine Science*, 6(416), doi: <https://doi.org/10.3389/fmars.2019.00416>.
- Pardo, P. C., B. Tilbrook, E. van Ooijen, A. Passmore, C. Neill, P. Jansen, A. J. Sutton, and T. W. Trull (2019), Surface ocean carbon dioxide variability in South Pacific boundary currents and Subantarctic waters, *Scientific Reports*, 9(1), 7592, doi: <https://doi.org/10.1038/s41598-019-44109-2>.
- Park, J.-E., K.-A. Park, C.-K. Kang, and G. Kim (2019), Satellite-Observed Chlorophyll-a Concentration Variability and Its Relation to Physical Environmental Changes in the East Sea (Japan Sea) from 2003 to 2015, *Estuaries and Coasts*, doi: <https://doi.org/10.1007/s12237-019-00671-6>.
- Park, Y.-H., et al. (2019), Observations of the Antarctic Circumpolar Current Over the Udintsev Fracture Zone, the Narrowest Choke Point in the Southern Ocean, *Journal of Geophysical Research: Oceans*, 124(7), 4511-4528, doi: <https://doi.org/10.1029/2019JC015024>.
- Partridge, D., T. Friedrich, and B. S. Powell (2019), Reanalysis of the PaCLOOS Hawaiian Island Ocean Forecast System, an implementation of the Regional Ocean Modeling System v3.6, *Geosci. Model Dev.*, 12(1), 195-213, doi: <https://doi.org/10.5194/gmd-12-195-2019>.
- Patel, R. S., H. E. Phillips, P. G. Strutton, A. Lenton, and J. Llort (2019), Meridional Heat and Salt Transport Across the Subantarctic Front by Cold-Core Eddies, *Journal of Geophysical Research: Oceans*, 124(2), 981-1004, doi: <https://doi.org/10.1029/2018JC014655>.
- Pauthenet, E., F. Roquet, G. Madec, J.-B. Sallée, and D. Nerini (2019), The Thermohaline Modes of the Global Ocean, *J. Phys. Oceanogr.*, 49(10), 2535-2552, doi: <https://doi.org/10.1175/JPO-D-19-0120.1>.
- Pearlman, J., et al. (2019), Evolving and Sustaining Ocean Best Practices and Standards for the Next Decade, *Frontiers in Marine Science*, 6(277), doi: <https://doi.org/10.3389/fmars.2019.00277>.
- Peng, S., Y. Zhu, Z. Li, Y. Li, Q. Xie, S. Liu, Y. Luo, Y. Tian, and J. Yu (2019), Improving the Real-time Marine Forecasting of the Northern South China Sea by Assimilation of Glider-observed T/S Profiles, *Scientific Reports*, 9(1), 17845, doi: <https://doi.org/10.1038/s41598-019-54241-8>.
- Penny, S. G., et al. (2019), Observational Needs for Improving Ocean and Coupled Reanalysis, S2S Prediction, and Decadal Prediction, *Frontiers in Marine Science*, 6(391), doi: <https://doi.org/10.3389/fmars.2019.00391>.
- Perez, R. C., G. R. Foltz, R. Lumpkin, and C. Schmid (2019), Direct Measurements of Upper Ocean Horizontal Velocity and Vertical Shear in the Tropical North Atlantic at 4°N,

- 23°W, *Journal of Geophysical Research: Oceans*, 124(6), 4133-4151, doi: <https://doi.org/10.1029/2019JC015064>.
- Petereit, J., J. Saynisch-Wagner, C. Irrgang, and M. Thomas (2019), Analysis of Ocean Tide-Induced Magnetic Fields Derived From Oceanic In Situ Observations: Climate Trends and the Remarkable Sensitivity of Shelf Regions, *Journal of Geophysical Research: Oceans*, 124(11), 8257-8270, doi: <https://doi.org/10.1029/2018JC014768>.
- Petersen, M. R., et al. (2019), An Evaluation of the Ocean and Sea Ice Climate of E3SM Using MPAS and Interannual CORE-II Forcing, *Journal of Advances in Modeling Earth Systems*, 11(5), 1438-1458, doi: <https://doi.org/10.1029/2018MS001373>.
- Phillipson, L., and R. Toumi (2019), Assimilation of Satellite Salinity for Modelling the Congo River Plume, *Remote Sensing*, 12(1), 11, doi: <https://doi.org/10.3390/rs12010011>.
- Piecuch, C. G., P. R. Thompson, R. M. Ponte, M. A. Merrifield, and B. D. Hamlington (2019), What Caused Recent Shifts in Tropical Pacific Decadal Sea-Level Trends?, *Journal of Geophysical Research: Oceans*, 124(11), 7575-7590, doi: <https://doi.org/10.1029/2019JC015339>.
- Pinardi, N., P. Cessi, F. Borile, and C. L. P. Wolfe (2019), The Mediterranean Sea Overturning Circulation, *J. Phys. Oceanogr.*, 49(7), 1699-1721, doi: <https://doi.org/10.1175/JPO-D-18-0254.1>.
- Pinardi, N., et al. (2019), The Joint IOC (of UNESCO) and WMO Collaborative Effort for Met-Ocean Services, *Frontiers in Marine Science*, 6(410), doi: <https://doi.org/10.3389/fmars.2019.00410>.
- Piracha, A., R. Sabia, M. Klockmann, L. Castaldo, and D. Fernández (2019), Satellite-Driven Estimates of Water Mass Formation and Their Spatio-Temporal Evolution, *Frontiers in Marine Science*, 6(589), doi: <https://doi.org/10.3389/fmars.2019.00589>.
- Porter, D. F., S. R. Springer, L. Padman, H. A. Fricker, K. J. Tinto, S. C. Riser, R. E. Bell, and t. R.-I. Team (2019), Evolution of the Seasonal Surface Mixed Layer of the Ross Sea, Antarctica, Observed With Autonomous Profiling Floats, *Journal of Geophysical Research: Oceans*, 124(7), 4934-4953, doi: <https://doi.org/10.1029/2018JC014683>.
- Potalova, E. Y., T. I. Kleshcheva, and M. S. Permyakov (2019), A Mesocyclone over the Northern Sea of Japan in February 2013, *Oceanology*, 59(6), 814-822, doi: <https://doi.org/10.1134/S0001437019060183>.
- Potter, H., S. F. DiMarco, and A. H. Knap (2019), Tropical Cyclone Heat Potential and the Rapid Intensification of Hurricane Harvey in the Texas Bight, *Journal of Geophysical Research: Oceans*, 124(4), 2440-2451, doi: <https://doi.org/10.1029/2018JC014776>.
- Pramanik, S., S. Sil, S. Mandal, D. Dey, and A. Shee (2019), Role of interannual equatorial forcing on the subsurface temperature dipole in the Bay of Bengal during IOD and ENSO events, *Ocean Dyn.*, 69(11), 1253-1271, doi: <https://doi.org/10.1007/s10236-019-01303-0>.
- Prants, S. V., A. G. Andreev, M. Y. Uleysky, and M. V. Budyansky (2019), Lagrangian study of mesoscale circulation in the Alaskan Stream area and the eastern Bering Sea, *Deep Sea Research Part II: Topical Studies in Oceanography*, 169-170, 104560, doi: <https://doi.org/10.1016/j.dsr2.2019.03.005>.
- Prasad C, A., and P. Kumar (2019), On the Possible Mechanisms for Saltening of the Bay of Bengal, *Defence Science Journal*, 69(1), 93-103, doi:

- <https://doi.org/10.14429/dsj.69.12220>.
- Prend, C. J., S. T. Gille, L. D. Talley, B. G. Mitchell, I. Rosso, and M. R. Mazloff (2019), Physical Drivers of Phytoplankton Bloom Initiation in the Southern Ocean's Scotia Sea, *Journal of Geophysical Research: Oceans*, 124(8), 5811-5826, doi: <https://doi.org/10.1029/2019JC015162>.
- Prend, C. J., H. Seo, R. A. Weller, and J. T. Farrar (2019), Impact of freshwater plumes on intraseasonal upper ocean variability in the Bay of Bengal, *Deep Sea Research Part II: Topical Studies in Oceanography*, 161, 63-71, doi: <https://doi.org/10.1016/j.dsr2.2018.09.007>.
- Priyadarshani, W. N. C., L. Ran, M. G. Wiesner, J. Chen, Z. Ling, S. Yu, and Y. Ye (2019), Seasonal and interannual variability of coccolithophore flux in the northern South China Sea, *Deep Sea Research Part I: Oceanographic Research Papers*, 145, 13-30, doi: <https://doi.org/10.1016/j.dsr.2019.01.004>.
- Pun, I.-F., J. C. L. Chan, I.-I. Lin, K. T. F. Chan, J. F. Price, D. S. Ko, C.-C. Lien, Y.-L. Wu, and H.-C. Huang (2019), Rapid Intensification of Typhoon Hato (2017) over Shallow Water, *Sustainability*, 11(13), 3709, doi: <https://doi.org/10.3390/su11133709>.
- Qi, J., L. Zhang, T. Qu, B. Yin, Z. Xu, D. Yang, D. Li, and Y. Qin (2019), Salinity variability in the tropical Pacific during the Central-Pacific and Eastern-Pacific El Niño events, *J. Mar. Syst.*, 199, 103225, doi: <https://doi.org/10.1016/j.jmarsys.2019.103225>.
- Qiao, F., G. Wang, L. Yin, K. Zeng, Y. Zhang, M. Zhang, B. Xiao, S. Jiang, H. Chen, and G. Chen (2019), Modelling oil trajectories and potentially contaminated areas from the Sanchi oil spill, *Science of The Total Environment*, 685, 856-866, doi: <https://doi.org/10.1016/j.scitotenv.2019.06.255>.
- Qiu, Y., W. Han, X. Lin, B. J. West, Y. Li, W. Xing, X. Zhang, K. Arulananthan, and X. Guo (2019), Upper-Ocean Response to the Super Tropical Cyclone Phailin (2013) over the Freshwater Region of the Bay of Bengal, *J. Phys. Oceanogr.*, 49(5), 1201-1228, doi: <https://doi.org/10.1175/JPO-D-18-0228.1>.
- Qu, T., I. Fukumori, and R. A. Fine (2019), Spin-Up of the Southern Hemisphere Super Gyre, *Journal of Geophysical Research: Oceans*, 124(1), 154-170, doi: <https://doi.org/10.1029/2018JC014391>.
- Qu, T., Z. Lian, X. Nie, and Z. Wei (2019), Eddy-Induced Meridional Salt Flux and Its Impacts on the Sea Surface Salinity Maxima in the Southern Subtropical Oceans, *Geophys. Res. Lett.*, 46(20), 11292-11300, doi: <https://doi.org/10.1029/2019GL084807>.
- Quinn, K. J., R. M. Ponte, P. Heimbach, I. Fukumori, and J. M. Campin (2019), Ocean angular momentum from a recent global state estimate, with assessment of uncertainties, *Geophysical Journal International*, 216(1), 584-597, doi: <http://dx.doi.org/10.1093/gji/ggy452>.
- Racapé, V., V. Thierry, H. Mercier, and C. Cabanes (2019), ISOW Spreading and Mixing as Revealed by Deep-Argo Floats Launched in the Charlie-Gibbs Fracture Zone, *Journal of Geophysical Research: Oceans*, 124(10), 6787-6808, doi: <https://doi.org/10.1029/2019JC015040>.
- Rao, S. A., et al. (2019), Monsoon Mission: A Targeted Activity to Improve Monsoon Prediction across Scales, *Bull. Amer. Meteorol. Soc.*, 100(12), 2509-2532, doi: <https://doi.org/10.1175/BAMS-D-17-0330.1>.

- Rasse, R., and G. Dall'Olmo (2019), Do Oceanic Hypoxic Regions Act as Barriers for Sinking Particles? A Case Study in the Eastern Tropical North Atlantic, *Glob. Biogeochem. Cycle*, 33(12), 1611-1630, doi: <https://doi.org/10.1029/2019GB006305>.
- Reeve, K. A., O. Boebel, V. Strass, T. Kanzow, and R. Gerdes (2019), Horizontal circulation and volume transports in the Weddell Gyre derived from Argo float data, *Prog. Oceanogr.*, 175, 263-283, doi: <https://doi.org/10.1016/j.pocean.2019.04.006>.
- Reeves Eyre, J. E. J., L. Van Roekel, X. Zeng, M. A. Brunke, and J.-C. Golaz (2019), Ocean Barrier Layers in the Energy Exascale Earth System Model, *Geophys. Res. Lett.*, 46(14), 8234-8243, doi: <https://doi.org/10.1029/2019GL083591>.
- Reverdin, G., A. R. Friedman, L. Chafik, N. P. Holliday, T. Szekely, H. Valdimarsson, and I. Yashayaev (2019), North Atlantic extratropical and subpolar gyre variability during the last 120 years: a gridded dataset of surface temperature, salinity, and density. Part 1: dataset validation and RMS variability, *Ocean Dyn.*, 69(3), 385-403, doi: <https://doi.org/10.1007/s10236-018-1240-y>.
- Rhein, M., C. Mertens, and A. Roessler (2019), Observed Transport Decline at 47°N, Western Atlantic, *Journal of Geophysical Research: Oceans*, 124(7), 4875-4890, doi: <https://doi.org/10.1029/2019JC014993>.
- Richardson, L. E., J. F. Middleton, T. K. Kyser, N. P. James, and B. N. Opdyke (2019), Shallow water masses and their connectivity along the southern Australian continental margin, *Deep Sea Research Part I: Oceanographic Research Papers*, 152, 103083, doi: <https://doi.org/10.1016/j.dsr.2019.103083>.
- Rieck, J. K., C. W. Böning, and K. Getzlaff (2019), The Nature of Eddy Kinetic Energy in the Labrador Sea: Different Types of Mesoscale Eddies, Their Temporal Variability, and Impact on Deep Convection, *J. Phys. Oceanogr.*, 49(8), 2075-2094, doi: <https://doi.org/10.1175/JPO-D-18-0243.1>.
- Roach, C. J., and K. Speer (2019), Exchange of Water Between the Ross Gyre and ACC Assessed by Lagrangian Particle Tracking, *Journal of Geophysical Research: Oceans*, 124(7), 4631-4643, doi: <https://doi.org/10.1029/2018JC014845>.
- Roemmich, D., et al. (2019), On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array, *Frontiers in Marine Science*, 6(439), doi: <https://doi.org/10.3389/fmars.2019.00439>.
- Roemmich, D., et al. (2019), Deep SOLO: A Full-Depth Profiling Float for the Argo Program, *J. Atmos. Ocean. Technol.*, 36(10), 1967-1981, doi: <https://doi.org/10.1175/JTECH-D-19-0066.1>.
- Rydbeck, A. V., T. G. Jensen, and M. Flatau (2019), Characterization of Intraseasonal Kelvin Waves in the Equatorial Pacific Ocean, *Journal of Geophysical Research: Oceans*, 124(3), 2028-2053, doi: <https://doi.org/10.1029/2018JC014838>.
- Rydbeck, A. V., T. G. Jensen, T. A. Smith, M. K. Flatau, M. A. Janiga, C. A. Reynolds, and J. A. Ridout (2019), Ocean Heat Content and the Intraseasonal Oscillation, *Geophys. Res. Lett.*, 46(24), 14558-14566, doi: <https://doi.org/10.1029/2019GL084974>.
- Rzeznik, A. J., G. R. Flierl, and T. Peacock (2019), Model investigations of discharge plumes generated by deep-sea nodule mining operations, *Ocean Engineering*, 172, 684-696, doi: <https://doi.org/10.1016/j.oceaneng.2018.12.012>.
- Saldías, G. S., M. Sobarzo, and R. Quiñones (2019), Freshwater structure and its seasonal

- variability off western Patagonia, *Prog. Oceanogr.*, 174, 143-153, doi: <https://doi.org/10.1016/j.pocean.2018.10.014>.
- Salon, S., G. Cossarini, G. Bolzon, L. Feudale, P. Lazzari, A. Teruzzi, C. Solidoro, and A. Crise (2019), Novel metrics based on Biogeochemical Argo data to improve the model uncertainty evaluation of the CMEMS Mediterranean marine ecosystem forecasts, *Ocean Sci.*, 15(4), 997-1022, doi: <https://doi.org/10.5194/os-15-997-2019>.
- Sanchez-Franks, A., B. G. M. Webber, B. A. King, P. N. Vinayachandran, A. J. Matthews, P. M. F. Sheehan, A. Behara, and C. P. Neema (2019), The Railroad Switch Effect of Seasonally Reversing Currents on the Bay of Bengal High-Salinity Core, *Geophys. Res. Lett.*, 46(11), 6005-6014, doi: <https://doi.org/10.1029/2019GL082208>.
- Sandery, P., G. Brassington, F. Colberg, P. Sakov, M. Herzfeld, C. Maes, and N. Tuteja (2019), An ocean reanalysis of the western Coral Sea and Great Barrier Reef, *Ocean Model.*, 144, 101495, doi: <https://doi.org/10.1016/j.ocemod.2019.101495>.
- Sanikommu, S., D. S. Banerjee, B. Baduru, B. Paul, A. Paul, K. Chakraborty, and I. Hoteit (2019), Impact of dynamical representational errors on an Indian Ocean ensemble data assimilation system, *Q. J. R. Meteorol. Soc.*, 145(725), 3680-3691, doi: <https://doi.org/10.1002/qj.3649>.
- Schonau, M. C., H. W. Wijesekera, W. J. Teague, P. L. Colin, G. Gopalakrishnan, D. L. Rudnick, B. Cornuelle, Z. R. Hallock, and D. W. Wang (2019), The End of an El Nino: A view from Palau, *Oceanography*, 32(4), 32-45, doi: <https://doi.org/10.5670/oceanog.2019.409>.
- Sciascia, R., M. G. Magaldi, and A. Vetrano (2019), Current reversal and associated variability within the Corsica Channel: The 2004 case study, *Deep Sea Research Part I: Oceanographic Research Papers*, 144, 39-51, doi: <https://doi.org/10.1016/j.dsr.2018.12.004>.
- Séférian, R., et al. (2019), Evaluation of CNRM Earth System Model, CNRM-ESM2-1: Role of Earth System Processes in Present-Day and Future Climate, *Journal of Advances in Modeling Earth Systems*, 11(12), 4182-4227, doi: <https://doi.org/10.1029/2019MS001791>.
- Seidov, D., A. Mishonov, J. Reagan, and R. Parsons (2019), Eddy-Resolving In Situ Ocean Climatologies of Temperature and Salinity in the Northwest Atlantic Ocean, *Journal of Geophysical Research: Oceans*, 124(1), 41-58, doi: <https://doi.org/10.1029/2018JC014548>.
- Seyfried, L., C. Estournel, P. Marsaleix, and E. Richard (2019), Dynamics of the North Balearic Front during an autumn tramontane and mistral storm: air-sea coupling processes and stratification budget diagnostic, *Ocean Sci.*, 15(1), 179-198, doi: <https://doi.org/10.5194/os-15-179-2019>.
- Sharma, N. (2019), Retrieval of sea surface salinity from SMAP L-band radiometer: A novel approach for wind speed correction, *Q. J. R. Meteorol. Soc.*, 145(725), 3455-3465, doi: <https://doi.org/10.1002/qj.3630>.
- Shee, A., S. Sil, A. Gangopadhyay, G. Gawarkiewicz, and M. Ravichandran (2019), Seasonal Evolution of Oceanic Upper Layer Processes in the Northern Bay of Bengal Following a Single Argo Float, *Geophys. Res. Lett.*, 46(10), 5369-5377, doi: <https://doi.org/10.1029/2019GL082078>.

- Shu, Y., J. Chen, S. Li, Q. Wang, J. Yu, and D. Wang (2019), Field-observation for an anticyclonic mesoscale eddy consisted of twelve gliders and sixty-two expendable probes in the northern South China Sea during summer 2017, *Sci. China Earth Sci.*, 62(2), 451-458, doi: <https://doi.org/10.1007/s11430-018-9239-0>.
- Siiriä, S., P. Roiha, L. Tuomi, T. Purokoski, N. Haavisto, and P. Alenius (2019), Applying area-locked, shallow water Argo floats in Baltic Sea monitoring, *J. Oper. Oceanogr.*, 12(1), doi: <https://doi.org/10.1080/1755876X.2018.1544783>.
- Silvano, A., S. R. Rintoul, K. Kushara, B. Peña-Molino, E. van Wijk, D. E. Gwyther, and G. D. Williams (2019), Seasonality of Warm Water Intrusions Onto the Continental Shelf Near the Totten Glacier, *Journal of Geophysical Research: Oceans*, 124(6), 4272-4289, doi: <https://doi.org/10.1029/2018JC014634>.
- Simon, J. L. E., and R. R. Rodrigues (2019), The variability of the subantarctic front and the Southern Hemisphere atmospheric jet, *Brazilian Journal of Oceanography*, 67, doi: <https://doi.org/10.1590/S1679-87592019025606712>.
- Skachko, S., M. Buehner, S. Laroche, E. Lapalme, G. Smith, F. Roy, D. Surcel-Colan, J. M. Bélanger, and L. Garand (2019), Weakly coupled atmosphere–ocean data assimilation in the Canadian global prediction system (v1), *Geosci. Model Dev.*, 12(12), 5097-5112, doi: <https://doi.org/10.5194/gmd-12-5097-2019>.
- Sloyan, B. M., et al. (2019), The Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP): A Platform for Integrated Multidisciplinary Ocean Science, *Frontiers in Marine Science*, 6(445), doi: <https://doi.org/10.3389/fmars.2019.00445>.
- Smith, G. C., et al. (2019), Polar Ocean Observations: A Critical Gap in the Observing System and Its Effect on Environmental Predictions From Hours to a Season, *Frontiers in Marine Science*, 6(429), doi: <https://doi.org/10.3389/fmars.2019.00429>.
- Smith, N., et al. (2019), Tropical Pacific Observing System, *Frontiers in Marine Science*, 6(31), doi: <https://doi.org/10.3389/fmars.2019.00031>.
- Smith, T., and P. Heimbach (2019), Atmospheric Origins of Variability in the South Atlantic Meridional Overturning Circulation, *J. Clim.*, 32(5), 1483-1500, doi: <https://doi.org/10.1175/JCLI-D-18-0311.1>.
- Snowden, D., et al. (2019), Data Interoperability Between Elements of the Global Ocean Observing System, *Frontiers in Marine Science*, 6(442), doi: <https://doi.org/10.3389/fmars.2019.00442>.
- Soares, S. M., K. J. Richards, F. O. Bryan, and K. Yoneyama (2019), On the Seasonal Cycle of the Tropical South Indian Ocean. Part I: Mixed Layer Heat and Salt Budgets, *J. Clim.*, 32(6), 1951-1972, doi: <https://doi.org/10.1175/JCLI-D-18-0036.1>.
- Somavilla, R. (2019), Draining and Upwelling of Greenland Sea Deep Waters, *Journal of Geophysical Research: Oceans*, 124(4), 2842-2860, doi: <https://doi.org/10.1029/2018JC014249>.
- Song, B., H. Wang, C. Chen, R. Zhang, and S. Bao (2019), Observed subsurface eddies near the Vietnam coast of the South China Sea, *Acta Oceanol. Sin.*, 38(4), 39-46, doi: <https://doi.org/10.1007/s13131-019-1412-8>.
- Sprintall, J., et al. (2019), Detecting Change in the Indonesian Seas, *Frontiers in Marine Science*, 6(257), doi: <https://doi.org/10.3389/fmars.2019.00257>.
- Srokosz, M., and C. Banks (2019), Salinity from space, *Weather*, 74(1), 3-8, doi:

- <https://doi.org/10.1002/wea.3161>.
- Stammer, D., et al. (2019), Ocean Climate Observing Requirements in Support of Climate Research and Climate Information, *Frontiers in Marine Science*, 6(444), doi: <https://doi.org/10.3389/fmars.2019.00444>.
- Stanev, E. V., E. Peneva, and B. Chtirkova (2019), Climate Change and Regional Ocean Water Mass Disappearance: Case of the Black Sea, *Journal of Geophysical Research: Oceans*, 124(7), 4803-4819, doi: <https://doi.org/10.1029/2019JC015076>.
- Stensland, A., T. Baumberger, K. A. Mork, M. D. Lilley, I. H. Thorseth, and R. B. Pedersen (2019), 3He along the ultraslow spreading AMOR in the Norwegian-Greenland Seas, *Deep Sea Research Part I: Oceanographic Research Papers*, 147, 1-11, doi: <https://doi.org/10.1016/j.dsr.2019.04.004>.
- Storto, A., et al. (2019), Ocean Reanalyses: Recent Advances and Unsolved Challenges, *Frontiers in Marine Science*, 6(418), doi: <https://doi.org/10.3389/fmars.2019.00418>.
- Storto, A., A. Bonaduce, X. Feng, and C. Yang (2019), Steric Sea Level Changes from Ocean Reanalyses at Global and Regional Scales, *Water*, 11(10), 1987, doi: <https://doi.org/10.3390/w11101987>.
- Storto, A., et al. (2019), The added value of the multi-system spread information for ocean heat content and steric sea level investigations in the CMEMS GREP ensemble reanalysis product, *Climate Dynamics*, 53(1), 287-312, doi: <https://doi.org/10.1007/s00382-018-4585-5>.
- Su, H., X. Yang, W. Lu, and X.-H. Yan (2019), Estimating Subsurface Thermohaline Structure of the Global Ocean Using Surface Remote Sensing Observations, *Remote Sensing*, 11(13), 1598, doi: <https://doi.org/10.3390/rs11131598>.
- Subramanian, A. C., et al. (2019), Ocean Observations to Improve Our Understanding, Modeling, and Forecasting of Subseasonal-to-Seasonal Variability, *Frontiers in Marine Science*, 6(427), doi: <https://doi.org/10.3389/fmars.2019.00427>.
- Sun, B., C. Liu, and F. Wang (2019), Global meridional eddy heat transport inferred from Argo and altimetry observations, *Scientific Reports*, 9(1), 1345, doi: <https://doi.org/10.1038/s41598-018-38069-2>.
- Sun, J., et al. (2019), Development of a fine-resolution atmosphere-wave-ocean coupled forecasting model for the South China Sea and its adjacent seas, *Acta Oceanol. Sin.*, 38(4), 154-166, doi: <https://doi.org/10.1007/s13131-019-1419-1>.
- Sun, Q., Y. Du, Y. Zhang, M. Feng, J. S. Chowdary, J. Chi, S. Qiu, and W. Yu (2019), Evolution of Sea Surface Salinity Anomalies in the Southwestern Tropical Indian Ocean During 2010–2011 Influenced by a Negative IOD Event, *Journal of Geophysical Research: Oceans*, 124(5), 3428-3445, doi: <https://doi.org/10.1029/2018JC014580>.
- Sutton, P. J. H., and M. Bowen (2019), Ocean temperature change around New Zealand over the last 36 years, *New Zealand Journal of Marine and Freshwater Research*, 1-22, doi: <https://doi.org/10.1080/00288330.2018.1562945>.
- Swart, S., et al. (2019), Constraining Southern Ocean Air-Sea-Ice Fluxes Through Enhanced Observations, *Frontiers in Marine Science*, 6(421), doi: <https://doi.org/10.3389/fmars.2019.00421>.
- Szekely, T., J. Gourrion, S. Pouliquen, and G. Reverdin (2019), The CORA 5.2 dataset for global in situ temperature and salinity measurements: data description and

- validation, *Ocean Sci.*, 15(6), 1601-1614, doi:
<https://doi.org/10.5194/os-15-1601-2019>.
- Szuts, Z. B., et al. (2019), The Scientific and Societal Uses of Global Measurements of Subsurface Velocity, *Frontiers in Marine Science*, 6(358), doi:
<https://doi.org/10.3389/fmars.2019.00358>.
- Talley, L. D., et al. (2019), Southern Ocean Biogeochemical Float Deployment Strategy, With Example From the Greenwich Meridian Line (GO-SHIP A12), *Journal of Geophysical Research: Oceans*, 124(1), 403-431, doi: <https://doi.org/10.1029/2018JC014059>.
- Tamsitt, V., L. D. Talley, and M. R. Mazloff (2019), A Deep Eastern Boundary Current Carrying Indian Deep Water South of Australia, *Journal of Geophysical Research: Oceans*, 124(3), 2218-2238, doi: <https://doi.org/10.1029/2018JC014569>.
- Tanhua, T., et al. (2019), Ocean FAIR Data Services, *Frontiers in Marine Science*, 6(440), doi:
<https://doi.org/10.3389/fmars.2019.00440>.
- Tapley, B. D., et al. (2019), Contributions of GRACE to understanding climate change, *Nature Climate Change*, 9(5), 358-369, doi: <https://doi.org/10.1038/s41558-019-0456-2>.
- Terzić, E., P. Lazzari, E. Organelli, C. Solidoro, S. Salon, F. D'Ortenzio, and P. Conan (2019), Merging bio-optical data from Biogeochemical-Argo floats and models in marine biogeochemistry, *Biogeosciences*, 16(12), 2527-2542, doi:
<https://doi.org/10.5194/bg-16-2527-2019>.
- Thompson, B., C. Sanchez, X. Sun, G. Song, J. Liu, X.-Y. Huang, and P. Tkalich (2019), A high-resolution atmosphere–ocean coupled model for the western Maritime Continent: development and preliminary assessment, *Climate Dynamics*, 52(7), 3951-3981, doi: <https://doi.org/10.1007/s00382-018-4367-0>.
- Thompson, P. R., et al. (2019), Global Oceans: Sea level variability and change in State of the Climate in 2018, *Bull. Am. Meteorol. Soc.*, 100(9), S84 - S87, doi:
<https://doi.org/10.1175/2019BAMSStateoftheClimate.1>.
- Tilbrook, B., et al. (2019), An Enhanced Ocean Acidification Observing Network: From People to Technology to Data Synthesis and Information Exchange, *Frontiers in Marine Science*, 6(337), doi: <https://doi.org/10.3389/fmars.2019.00337>.
- Tintó Prims, O., M. C. Acosta, A. M. Moore, M. Castrillo, K. Serradell, A. Cortés, and F. J. Doblas-Reyes (2019), How to use mixed precision in ocean models: exploring a potential reduction of numerical precision in NEMO 4.0 and ROMS 3.6, *Geosci. Model Dev.*, 12(7), 3135-3148, doi: <https://doi.org/10.5194/gmd-12-3135-2019>.
- Tintoré, J., et al. (2019), Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea, *Frontiers in Marine Science*, 6(568), doi:
<https://doi.org/10.3389/fmars.2019.00568>.
- Todd, R. E., et al. (2019), Global Perspectives on Observing Ocean Boundary Current Systems, *Frontiers in Marine Science*, 6(423), doi:
<https://doi.org/10.3389/fmars.2019.00423>.
- Tomczak, M. (2019), A statistic of water mass intrusions in the south Indian Ocean between 100° E and 110° E, *Ocean Dyn.*, 69(3), 301-311, doi:
<https://doi.org/10.1007/s10236-019-01251-9>.
- Trenberth, K. E., and Y. Zhang (2019), Observed Interhemispheric Meridional Heat Transports and the Role of the Indonesian Throughflow in the Pacific Ocean, *J. Clim.*,

- 32(24), 8523-8536, doi: <https://doi.org/10.1175/JCLI-D-19-0465.1>.
- Trenberth, K. E., Y. Zhang, J. T. Fasullo, and L. Cheng (2019), Observation-Based Estimates of Global and Basin Ocean Meridional Heat Transport Time Series, *J. Clim.*, 32(14), 4567-4583, doi: <https://doi.org/10.1175/JCLI-D-18-0872.1>.
- Trott, C. B., B. Subrahmanyam, A. Chaigneau, and H. L. Roman-Stork (2019), Eddy-Induced Temperature and Salinity Variability in the Arabian Sea, *Geophys. Res. Lett.*, 46(5), 2734-2742, doi: <https://doi.org/10.1029/2018GL081512>.
- Trott, C. B., B. Subrahmanyam, V. S. N. Murty, and J. F. Shriver (2019), Large-Scale Fresh and Salt Water Exchanges in the Indian Ocean, *Journal of Geophysical Research: Oceans*, 124(8), 6252-6269, doi: <https://doi.org/10.1029/2019JC015361>.
- Trott, C. B., B. Subrahmanyam, and E. S. Nyadjro (2019), Influence of Mesoscale Features on Mixed Layer Dynamics in the Arabian Sea, *Journal of Geophysical Research: Oceans*, 124(5), 3361-3377, doi: <https://doi.org/10.1029/2019JC014965>.
- Trott, C. B., B. Subrahmanyam, H. L. Roman-Stork, V. S. N. Murty, and C. Gnanaseelan (2019), Variability of Intraseasonal Oscillations and Synoptic Signals in Sea Surface Salinity in the Bay of Bengal, *J. Clim.*, 32(20), 6703-6728, doi: <https://doi.org/10.1175/JCLI-D-19-0178.1>.
- Troupin, C., et al. (2019), The AlborEX dataset: sampling of sub-mesoscale features in the Alboran Sea, *Earth Syst. Sci. Data*, 11(1), 129-145, doi: <https://www.earth-syst-sci-data.net/11/129/2019/>.
- Tuchen, F. P., J. F. Lübbecke, S. Schmidtke, R. Hummels, and C. W. Böning (2019), The Atlantic Subtropical Cells Inferred from Observations, *Journal of Geophysical Research: Oceans*, 124(11), 7591-7605, doi: <https://doi.org/10.1029/2019JC015396>.
- Turkington, T., B. Timbal, and R. Rahmat (2019), The impact of global warming on sea surface temperature based El Niño–Southern Oscillation monitoring indices, *International Journal of Climatology*, 39(2), 1092-1103, doi: <https://doi.org/10.1002/joc.5864>.
- Uchida, T., D. Balwada, R. Abernathey, G. McKinley, S. Smith, and M. Lévy (2019), The Contribution of Submesoscale over Mesoscale Eddy Iron Transport in the Open Southern Ocean, *Journal of Advances in Modeling Earth Systems*, 11(12), 3934-3958, doi: <https://doi.org/10.1029/2019MS001805>.
- Uchida, T., D. Balwada, R. Abernathey, C. J. Prend, E. Boss, and S. T. Gille (2019), Southern Ocean Phytoplankton Blooms Observed by Biogeochemical Floats, *Journal of Geophysical Research: Oceans*, 124(11), 7328-7343, doi: <https://doi.org/10.1029/2019JC015355>.
- Uotila, P., et al. (2019), An assessment of ten ocean reanalyses in the polar regions, *Climate Dynamics*, 52(3), 1613-1650, doi: <https://doi.org/10.1007/s00382-018-4242-z>.
- Ushijima, Y., and Y. Yoshikawa (2019), Mixed Layer Depth and Sea Surface Warming under Diurnally Cycling Surface Heat Flux in the Heating Season, *J. Phys. Oceanogr.*, 49(7), 1769-1787, doi: <https://doi.org/10.1175/JPO-D-18-0230.1>.
- Valente, A., F. Sousa, and J. Dias (2019), Decadal changes in temperature and salinity of Central Waters off Western Iberia, *Deep Sea Research Part I: Oceanographic Research Papers*, 151, 103068, doi: <https://doi.org/10.1016/j.dsr.2019.103068>.
- van der Boog, C. G., M. F. de Jong, M. Scheidat, M. F. Leopold, S. C. V. Geelhoed, K. Schulz,

- H. A. Dijkstra, J. D. Pietrzak, and C. A. Katsman (2019), Hydrographic and Biological Survey of a Surface-Intensified Anticyclonic Eddy in the Caribbean Sea, *Journal of Geophysical Research: Oceans*, 124(8), 6235-6251, doi: <https://doi.org/10.1029/2018JC014877>.
- VARLAS, G., P. KATSAFADOS, G. KORRES, and A. PAPADOPOULOS (2019), Assessing the impact of Argo floats temperature measurements on the numerical weather prediction forecast skill, 2019, 20(2), 11, doi: <http://dx.doi.org/10.12681/mms.15423>.
- Vernet, M., et al. (2019), The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges, *Reviews of Geophysics*, 57(3), 623-708, doi: <https://doi.org/10.1029/2018RG000604>.
- Vinogradova, N., et al. (2019), Satellite Salinity Observing System: Recent Discoveries and the Way Forward, *Frontiers in Marine Science*, 6(243), doi: <https://doi.org/10.3389/fmars.2019.00243>.
- Voldoire, A., et al. (2019), Evaluation of CMIP6 DECK Experiments With CNRM-CM6-1, *Journal of Advances in Modeling Earth Systems*, 11(7), 2177-2213, doi: <https://doi.org/10.1029/2019MS001683>.
- Volkov, D. L., M. Baringer, D. Smeed, W. Johns, and F. W. Landerer (2019), Teleconnection between the Atlantic Meridional Overturning Circulation and Sea Level in the Mediterranean Sea, *J. Clim.*, 32(3), 935-955, doi: <https://doi.org/10.1175/JCLI-D-18-0474.1>.
- Volkov, D. L., S.-K. Lee, R. Domingues, H. Zhang, and M. Goes (2019), Interannual Sea Level Variability Along the Southeastern Seaboard of the United States in Relation to the Gyre-Scale Heat Divergence in the North Atlantic, *Geophys. Res. Lett.*, 46(13), 7481-7490, doi: <https://doi.org/10.1029/2019GL083596>.
- von Schuckmann, K., et al. (2019), Copernicus Marine Service Ocean State Report, Issue 3, *J. Oper. Oceanogr.*, 12(sup1), S1-S123, doi: <https://doi.org/10.1080/1755876X.2019.1633075>.
- Wang, J., W. Sun, and J. Zhang (2019), Sea Surface Salinity Products Validation Based on Triple Match Method, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 12(11), 4361-4366, doi: <https://doi.org/10.1109/JSTARS.2019.2945486>.
- Wang, M., Y. Du, B. Qiu, S.-P. Xie, and M. Feng (2019), Dynamics on Seasonal Variability of EKE Associated with TIWs in the Eastern Equatorial Pacific Ocean, *J. Phys. Oceanogr.*, 49(6), 1503-1519, doi: <https://doi.org/10.1175/JPO-D-18-0163.1>.
- Wang, M., Z. Liu, X. Zhu, X. Yan, Z. Zhang, and R. Zhao (2019), Origin and formation of the Ryukyu Current revealed by HYCOM reanalysis, *Acta Oceanol. Sin.*, 38(11), 1-10, doi: <https://doi.org/10.1007/s13131-018-1329-7>.
- Wang, Q., F. Wang, J. Feng, S. Hu, L. Zhang, F. Jia, and D. Hu (2019), The Equatorial Undercurrent and Its Origin in the Region Between Mindanao and New Guinea, *Journal of Geophysical Research: Oceans*, 124(4), 2313-2330, doi: <https://doi.org/10.1029/2018JC014842>.
- Wang, T., D. Li, L. Gao, and L. Zhu (2019), Estimation of biophysical properties of areas in the Western North Pacific with a high frequency of tropical cyclones, *Deep Sea Research Part I: Oceanographic Research Papers*, 147, 12-21, doi:

- <https://doi.org/10.1016/j.dsr.2019.03.008>.
- Wang, Y., Z. Han, W. Zhou, and Y. Wu (2019), Quality assessment of the SMAP Sea Surface Salinity in western Pacific Ocean based on Argo buoy data, *Advance in Marine Science*, 37(3), 387-397, doi.
- Wang, Y., Y. Li, and C. Wei (2019), Subtropical sea surface salinity maxima in the South Indian Ocean, *Journal of Oceanology and Limnology*, doi: <https://doi.org/10.1007/s00343-019-8251-5>.
- Wang, Y., H. Liu, P. Lin, and J. Yin (2019), Record-low coastal sea levels in the Northeast Pacific during the winter of 2013–2014, *Scientific Reports*, 9(1), 3774, doi: <https://doi.org/10.1038/s41598-019-40397-w>.
- Wang, Y., R. Wu, and Z. Wen (2019), Seasonal variations in size and intensity of the Indo-western Pacific warm pool in different sectors, *J. Oceanogr.*, 75(5), 423-439, doi: <https://doi.org/10.1007/s10872-019-00511-y>.
- Wang, Y., T. Xu, S. Li, R. D. Susanto, T. Agustadi, M. Trenggono, W. Tan, and Z. Wei (2019), Seasonal variation of water transport through the Karimata Strait, *Acta Oceanol. Sin.*, 38(4), 47-57, doi: <https://doi.org/10.1007/s13131-018-1224-2>.
- Wang, Z., D. Brickman, and B. J. W. Greenan (2019), Characteristic evolution of the Atlantic Meridional Overturning Circulation from 1990 to 2015: An eddy-resolving ocean model study, *Deep Sea Research Part I: Oceanographic Research Papers*, 149, 103056, doi: <https://doi.org/10.1016/j.dsr.2019.06.002>.
- Wang, Z. A., et al. (2019), Advancing Observation of Ocean Biogeochemistry, Biology, and Ecosystems With Cost-Effective in situ Sensing Technologies, *Frontiers in Marine Science*, 6(519), doi: <https://doi.org/10.3389/fmars.2019.00519>.
- Wei, Y., and H.-L. Ren (2019), Modulation of ENSO on Fast and Slow MJO Modes during Boreal Winter, *J. Clim.*, 32(21), 7483-7506, doi: <https://doi.org/10.1175/JCLI-D-19-0013.1>.
- Weller, R. A., D. J. Baker, M. M. Glackin, S. J. Roberts, R. W. Schmitt, E. S. Twigg, and D. J. Vimont (2019), The Challenge of Sustaining Ocean Observations, *Frontiers in Marine Science*, 6(105), doi: <https://doi.org/10.3389/fmars.2019.00105>.
- Whitt, D. B., S. A. Nicholson, and M. M. Carranza (2019), Global Impacts of Subseasonal (<60 Day) Wind Variability on Ocean Surface Stress, Buoyancy Flux, and Mixed Layer Depth, *Journal of Geophysical Research: Oceans*, 124(12), 8798-8831, doi: <https://doi.org/10.1029/2019JC015166>.
- Wilson, E. A., S. C. Riser, E. C. Campbell, and A. P. S. Wong (2019), Winter Upper-Ocean Stability and Ice–Ocean Feedbacks in the Sea Ice–Covered Southern Ocean, *J. Phys. Oceanogr.*, 49(4), 1099-1117, doi: <https://doi.org/10.1175/JPO-D-18-0184.1>.
- Wu, Q., X. Zhang, J. A. Church, and J. Hu (2019), ENSO-Related Global Ocean Heat Content Variations, *J. Clim.*, 32(1), 45-68, doi: <https://doi.org/10.1175/JCLI-D-17-0861.1>.
- Xiao, F., D. Wang, L. Zeng, Q.-Y. Liu, and W. Zhou (2019), Contrasting changes in the sea surface temperature and upper ocean heat content in the South China Sea during recent decades, *Climate Dynamics*, 53(3), 1597-1612, doi: <https://doi.org/10.1007/s00382-019-04697-1>.
- Xu, H., D. Tang, Y. Liu, and Y. Li (2019), Dissolved oxygen responses to tropical cyclones "Wind Pump" on pre-existing cyclonic and anticyclonic eddies in the Bay of Bengal,

- Marine Pollution Bulletin*, 146, 838-847, doi:
<https://doi.org/10.1016/j.marpolbul.2019.07.019>.
- Xu, H., D. Tang, J. Sheng, Y. Liu, and Y. Sui (2019), Study of dissolved oxygen responses to tropical cyclones in the Bay of Bengal based on Argo and satellite observations, *Science of The Total Environment*, 659, 912-922, doi:
<https://doi.org/10.1016/j.scitotenv.2018.12.384>.
- Yamaguchi, R., and T. Suga (2019), Trend and Variability in Global Upper-Ocean Stratification Since the 1960s, *Journal of Geophysical Research: Oceans*, 124(12), 8933-8948, doi: <https://doi.org/10.1029/2019JC015439>.
- Yamaguchi, R., T. Suga, K. J. Richards, and B. Qiu (2019), Diagnosing the development of seasonal stratification using the potential energy anomaly in the North Pacific, *Climate Dynamics*, 53(7-8), 4667-4681, doi:
<https://doi.org/10.1007/s00382-019-04816-y>.
- Yan, H., R. Zhang, G. Wang, H. Wang, J. Chen, and S. Bao (2019), Improved Multifractal Fusion Method to Blend SMOS Sea Surface Salinity Based on Semiparametric Weight Function, *J. Atmos. Ocean. Technol.*, 36(8), 1501-1520, doi:
<https://doi.org/10.1175/JTECH-D-18-0155.1>.
- Yan, Y., L. Svendsen, C. Wang, N. Keenlyside, and D. Xu (2019), A North-South Contrast of Subsurface Salinity Anomalies in the Northwestern Pacific From 2002 to 2013, *Journal of Geophysical Research: Oceans*, 124(3), 1795-1806, doi:
<https://doi.org/10.1029/2018JC014656>.
- Yan, Y., G. Wang, H. Xue, and F. Chai (2019), Buoyancy Effect on the Winter South China Sea Western Boundary Current, *Journal of Geophysical Research: Oceans*, 124(10), 6871-6885, doi: <https://doi.org/10.1029/2019JC015079>.
- Yang, B., S. R. Emerson, and P. D. Quay (2019), The Subtropical Ocean's Biological Carbon Pump Determined From O₂ and DIC/DI¹³C Tracers, *Geophys. Res. Lett.*, 46(10), 5361-5368, doi: <https://doi.org/10.1029/2018GL081239>.
- Yang, B., Y. Hou, and M. Li (2019), Response of the western North Pacific subtropical ocean to the slow-moving super typhoon Nanmadol, *Journal of Oceanology and Limnology*, 37(3), 938-956, doi: <https://doi.org/10.1007/s00343-019-8114-0>.
- Yang, C., A. Storto, and S. Masina (2019), Quantifying the effects of observational constraints and uncertainty in atmospheric forcing on historical ocean reanalyses, *Climate Dynamics*, 52(5), 3321-3342, doi: <https://doi.org/10.1007/s00382-018-4331-z>.
- Yang, G.-B., et al. (2019), Subsurface Cyclonic Eddies Observed in the Southeastern Tropical Indian Ocean, *Journal of Geophysical Research: Oceans*, 124(10), 7247-7260, doi:
<https://doi.org/10.1029/2019JC015381>.
- Yang, J., L. Liu, L. Zhang, G. Li, Z. Sun, and H. Song (2019), Prediction of Marine Pycnocline Based on Kernel Support Vector Machine and Convex Optimization Technology, *Sensors*, 19(7), 1562, doi: <https://dx.doi.org/10.3390/s19071562>.
- Yang, X., X. Wu, Z. Liu, and C. Yuan (2019), A preliminary study on an upper ocean heat and salt content of the western Pacific warm pool region, *Acta Oceanol. Sin.*, 38(3), 60-71, doi: <https://doi.org/10.1007/s13131-019-1399-1>.
- Yang, Y., K. Li, J. Du, Y. Liu, L. Liu, H. Wang, and W. Yu (2019), Revealing the Subsurface Yellow Sea Cold Water Mass from Satellite Data Associated with Typhoon Muifa,

- Journal of Geophysical Research: Oceans*, 124(10), 7135-7152, doi: <https://doi.org/10.1029/2018JC014727>.
- Yang, Y., and X. S. Liang (2019), New Perspectives on the Generation and Maintenance of the Kuroshio Large Meander, *J. Phys. Oceanogr.*, 49(8), 2095-2113, doi: <https://doi.org/10.1175/JPO-D-18-0276.1>.
- Yang, Y., and X. S. Liang (2019), Spatiotemporal Variability of the Global Ocean Internal Processes Inferred from Satellite Observations, *J. Phys. Oceanogr.*, 49(8), 2147-2164, doi: <https://doi.org/10.1175/JPO-D-18-0273.1>.
- Yang, Z., G. Wang, and C. Chen (2019), Horizontal velocity structure of mesoscale eddies in the South China Sea, *Deep Sea Research Part I: Oceanographic Research Papers*, 149, 103055, doi: <https://doi.org/10.1016/j.dsr.2019.06.001>.
- Ye, F., Y. J. Zhang, R. He, Z. Wang, H. V. Wang, and J. Du (2019), Third-order WENO transport scheme for simulating the baroclinic eddying ocean on an unstructured grid, *Ocean Model.*, 143, 101466, doi: <https://doi.org/10.1016/j.ocemod.2019.101466>.
- Ye, H., J. Sheng, D. Tang, E. Morozov, M. A. Kalhor, S. Wang, and H. Xu (2019), Examining the Impact of Tropical Cyclones on Air-Sea CO₂ Exchanges in the Bay of Bengal Based on Satellite Data and In Situ Observations, *Journal of Geophysical Research: Oceans*, 124(1), 555-576, doi: <https://doi.org/10.1029/2018JC014533>.
- Yin, Y., X. Lin, and Y. Hou (2019), Seasonality of the Kuroshio intensity east of Taiwan modulated by mesoscale eddies, *J. Mar. Syst.*, 193, 84-93, doi: <https://doi.org/10.1016/j.jmarsys.2019.02.001>.
- Yu, L., K. Fennel, B. Wang, A. Laurent, K. R. Thompson, and L. K. Shay (2019), Evaluation of nonidentical versus identical twin approaches for observation impact assessments: an ensemble-Kalman-filter-based ocean assimilation application for the Gulf of Mexico, *Ocean Sci.*, 15(6), 1801-1814, doi: <https://www.ocean-sci.net/15/1801/2019/>.
- Yu, Z., E. J. Metzger, H. E. Hurlburt, and O. M. Smedstad (2019), What controls the extreme flow through the Kerama Gap: a global HYbrid Coordinate Ocean Model reanalysis point of view, *Ocean Dyn.*, 69(8), 899-911, doi: <https://doi.org/10.1007/s10236-019-01284-0>.
- Zanowski, H., and G. C. Johnson (2019), Semiannual Variations in 1,000-dbar Equatorial Indian Ocean Velocity and Isotherm Displacements from Argo Data, *Journal of Geophysical Research: Oceans*, 124(12), 9507-9516, doi: <https://doi.org/10.1029/2019JC015342>.
- Zanowski, H., G. C. Johnson, and J. M. Lyman (2019), Equatorial Pacific 1,000-dbar Velocity and Isotherm Displacements From Argo Data: Beyond the Mean and Seasonal Cycle, *Journal of Geophysical Research: Oceans*, 124(11), 7873-7882, doi: <https://doi.org/10.1029/2019JC015032>.
- Zedler, S. E., B. S. Powell, B. Qiu, and D. L. Rudnick (2019), Energy Transfer in the Western Tropical Pacific, *Oceanography*, 32(4), 136-145, doi: <https://doi.org/10.5670/oceanog.2019.419>.
- Zeng, L., R. W. Schmitt, L. Li, Q. Wang, and D. Wang (2019), Forecast of summer precipitation in the Yangtze River Valley based on South China Sea springtime sea surface salinity, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-019-04878-y>.
- Zervakis, V., N. Krauzig, E. Tragou, and E. Kunze (2019), Estimating vertical mixing in the

- deep north Aegean Sea using argo data corrected for conductivity sensor drift, *Deep Sea Research Part I: Oceanographic Research Papers*, 154, 103144, doi: <https://doi.org/10.1016/j.dsr.2019.103144>.
- Zhang, R.-H., F. Tian, H. Zhi, and X. Kang (2019), Observed structural relationships between ocean chlorophyll variability and its heating effects on the ENSO, *Climate Dynamics*, 53(9-10), 5165-5186, doi: <https://doi.org/10.1007/s00382-019-04844-8>.
- Zhang, X., X. Wu, W. Li, B. Wang, X. Zhu, K. Liu, C. Shao, C. Sun, G. Chao, and T. Zhang (2019), A New Multigrid 3D-VAR Optimization Method for Bottom Friction Using HF Radar Current Observation, *Journal of Ocean University of China*, 18(6), 1247-1255, doi: <https://doi.org/10.1007/s11802-019-4020-5>.
- Zhang, Y., X. Chen, and C. Dong (2019), Anatomy of a Cyclonic Eddy in the Kuroshio Extension Based on High-Resolution Observations, *Atmosphere*, 10(9), 553, doi: <https://doi.org/10.3390/atmos10090553>.
- Zhang, Z., L. Liu, and F. Wang (2019), Oceanic barrier layer variation induced by tropical cyclones in the Northwest Pacific, *Journal of Oceanology and Limnology*, 37(2), 375-384, doi: <https://doi.org/10.1007/s00343-019-8008-1>.
- Zhang, Z., Z. Liu, K. Richards, G. Shang, W. Zhao, J. Tian, X. Huang, and C. Zhou (2019), Elevated Diapycnal Mixing by a Subthermocline Eddy in the Western Equatorial Pacific, *Geophys. Res. Lett.*, 46(5), 2628-2636, doi: <https://doi.org/10.1029/2018GL081512>.
- Zhi, H., P. Lin, R.-H. Zhang, F. Chai, and H. Liu (2019), Salinity effects on the 2014 warm "Blob" in the Northeast Pacific, *Acta Oceanol. Sin.*, 38(9), 24-34, doi: <https://doi.org/10.1007/s13131-019-1450-2>.
- Zhi, H., R.-H. Zhang, P. Lin, and S. Shi (2019), Effects of Salinity Variability on Recent El Niño Events, *Atmosphere*, 10(8), 475, doi: <https://doi.org/10.3390/atmos10080475>.
- Zhou, C., J. Zhang, J. Yang, M. Xu, and Q. Zhang (2019), 4 DVAR assimilation of SST and SSH data in the South China Sea based on ROMS, *Haiyang Xuebao*, 4(1), 32-40, doi: <https://doi.org/10.1007/s10236-019-01260-8>.
- Zhou, H., X. Liu, and P. Xu (2019), Sensitivity of Sverdrup transport to surface wind products over the tropical North Pacific Ocean, *Ocean Dyn.*, 69(5), 529-542, doi: <https://doi.org/10.1007/s10236-019-01260-8>.
- Zhu, Y., and R.-H. Zhang (2019), A Modified Vertical Mixing Parameterization for Its Improved Ocean and Coupled Simulations in the Tropical Pacific, *J. Phys. Oceanogr.*, 49(1), 21-37, doi: <https://doi.org/10.1175/JPO-D-18-0100.1>.
- Zu, T., H. Xue, D. Wang, B. Geng, L. Zeng, Q. Liu, J. Chen, and Y. He (2019), Interannual variation of the South China Sea circulation during winter: intensified in the southern basin, *Climate Dynamics*, 52(3), 1917-1933, doi: <https://doi.org/10.1007/s00382-018-4230-3>.
- Zuo, H., M. A. Balmaseda, S. Tietsche, K. Mogensen, and M. Mayer (2019), The ECMWF operational ensemble reanalysis–analysis system for ocean and sea ice: a description of the system and assessment, *Ocean Sci.*, 15(3), 779-808, doi: <https://doi.org/10.5194/os-15-779-2019>.

- Achterberg, E. P., S. Steigenberger, C. M. Marsay, F. A. C. LeMoigne, S. C. Painter, A. R. Baker, D. P. Connelly, C. M. Moore, A. Tagliabue, and T. Tanhua, 2018: Iron Biogeochemistry in the High Latitude North Atlantic Ocean. *Scientific Reports*, **8**, 1283, <https://doi.org/10.1038/s41598-018-19472-1>
- Aluie, H., M. Hecht, and G. K. Vallis, 2018: Mapping the Energy Cascade in the North Atlantic Ocean: The Coarse-Graining Approach. *Journal of Physical Oceanography*, **48**, 225-244, <https://doi.org/10.1175/JPO-D-17-0100.1>
- Andreev, A. G., 2018: Peculiarities of Water Circulation in the Southern Tatar Strait. *Izvestiya, Atmospheric and Oceanic Physics*, **54**, 1050-1056, <https://doi.org/10.1134/S0001433818090037>
- Andreev, A. G., M. V. Budyansky, M. Y. Uleysky, and S. V. Prants, 2018: Mesoscale dynamics and walleye pollock catches in the Navarin Canyon area of the Bering Sea. *Ocean Dynamics*, **68**, 1503-1514, <https://doi.org/10.1007/s10236-018-1208-y>
- Andres, M., M. Muglia, F. Bahr, and J. Bane, 2018: Continuous Flow of Upper Labrador Sea Water around Cape Hatteras. *Scientific Reports*, **8**, 4494, <https://doi.org/10.1038/s41598-018-22758-z>
- Artana, C., J.-M. Lellouche, Y.-H. Park, G. Garric, Z. Koenig, N. Sennéchaël, R. Ferrari, A. R. Piola, M. Saraceno, and C. Provost, 2018: Fronts of the Malvinas Current System: Surface and Subsurface Expressions Revealed by Satellite Altimetry, Argo Floats, and Mercator Operational Model Outputs. *Journal of Geophysical Research: Oceans*, **123**, 5261-5285, <https://doi.org/10.1029/2018JC013887>
- Artana, C., J.-M. Lellouche, N. Sennéchaël, and C. Provost, 2018: The Open-Ocean Side of the Malvinas Current in Argo Floats and 24 Years of Mercator Ocean High-Resolution (1/12) Physical Reanalysis. *Journal of Geophysical Research: Oceans*, **123**, 8489-8507, <https://doi.org/10.1029/2018JC014528>
- Arteaga, L., N. Haëntjens, E. Boss, K. S. Johnson, and J. L. Sarmiento, 2018: Assessment of Export Efficiency Equations in the Southern Ocean Applied to Satellite-Based Net Primary Production. *Journal of Geophysical Research: Oceans*, **123**, 2945-2964, <https://doi.org/10.1002/2018JC013787>
- Awo, F. M., G. Alory, C. Y. Da-Allada, T. Delcroix, J. Jouanno, E. Kestenare, and E. Baloïtcha, 2018: Sea Surface Salinity Signature of the Tropical Atlantic Interannual Climatic Modes. *Journal of Geophysical Research: Oceans*, **123**, 7420-7437, <https://doi.org/10.1029/2018JC013837>
- Balaguru, K., S. C. Doney, L. Bianucci, P. J. Rasch, L. R. Leung, J.-H. Yoon, and I. D. Lima, 2018: Linking deep convection and phytoplankton blooms in the northern Labrador Sea in a changing climate. *PLOS ONE*, **13**, e0191509, <https://doi.org/10.1371/journal.pone.0191509>
- Balaguru, K., G. R. Foltz, and L. R. Leung, 2018: Increasing Magnitude of Hurricane Rapid Intensification in the Central and Eastern Tropical Atlantic. *Geophysical Research Letters*, **45**, 4238-4247, <https://doi.org/10.1029/2018GL077597>
- Balaguru, K., G. R. Foltz, L. R. Leung, S. M. Hagos, and D. R. Judi, 2018: On the Use of Ocean Dynamic Temperature for Hurricane Intensity Forecasting. *Weather and Forecasting*, **33**, 411-418, <https://doi.org/10.1175/WAF-D-17-0143.1>
- Barbieux, M., J. Uitz, A. Bricaud, E. Organelli, A. Poteau, C. Schmechtig, B. Gentili, G.

- Obolensky, E. Leymarie, C. Penkerch, F. D'Ortenzio, and H. Claustre, 2018: Assessing the Variability in the Relationship Between the Particulate Backscattering Coefficient and the Chlorophyll a Concentration From a Global Biogeochemical-Argo Database. *Journal of Geophysical Research: Oceans*, **123**, 1229-1250, <https://doi.org/10.1002/2017JC013030>
- Barbot, S., A. Petrenko, and C. Maes, 2018: Intermediate water flows in the western South Pacific: as revealed by individual Argo floats trajectories and a model re-analysis. *Biogeosciences*, **15**, 4103-4124, <https://doi.org/10.5194/bg-15-4103-2018>
- Barceló-Llull, B., A. Pascual, E. Mason, and S. Mulet, 2018: Comparing a Multivariate Global Ocean State Estimate With High-Resolution in Situ Data: An Anticyclonic Intrathermocline Eddy Near the Canary Islands. *Frontiers in Marine Science*, **5**, <https://doi.org/10.3389/fmars.2018.00066>
- Baringer, M. O., J. Willis, D. A. Smeed, B. I. Moat, S. Dong, W. R. Hobbs, D. Rayner, W. E. Johns, G. Gonil, M. Lankhorst, and U. Send, 2018: Global Oceans: Meridional overturning and oceanic heat transport circulation observations in the North Atlantic Ocean. *Bull. Am. Meteorol. Soc.*, **99**, S91 - S93, <https://doi.org/10.1175/2018BAMSStateoftheClimate.1>
- Barton, B. I., Y.-D. Lenn, and C. Lique, 2018: Observed Atlantification of the Barents Sea Causes the Polar Front to Limit the Expansion of Winter Sea Ice. *Journal of Physical Oceanography*, **48**, 1849-1866, <https://doi.org/10.1175/JPO-D-18-0003.1>
- Bashmachnikov, I., T. Belonenko, P. Kuibin, D. Volkov, and V. Foux, 2018: Pattern of vertical velocity in the Lofoten vortex (the Norwegian Sea). *Ocean Dynamics*, **68**, 1711-1725, <https://doi.org/10.1007/s10236-018-1213-1>
- Belyaev, K., A. Kuleshov, N. Tuchkova, and C. A. S. Tanajura, 2018: An optimal data assimilation method and its application to the numerical simulation of the ocean dynamics. *Mathematical and Computer Modelling of Dynamical Systems*, **24**, 12-25, <http://dx.doi.org/10.1080/13873954.2017.1338300>
- Benthuisen, J. A., E. C. J. Oliver, M. Feng, and A. G. Marshall, 2018: Extreme Marine Warming Across Tropical Australia During Austral Summer 2015–2016. *Journal of Geophysical Research: Oceans*, **123**, 1301-1326, <https://doi.org/10.1002/2017JC013326>
- Berry, D., G. Corlett, O. Embury, and C. Merchant, 2018: Stability Assessment of the (A)ATSR Sea Surface Temperature Climate Dataset from the European Space Agency Climate Change Initiative. *Remote Sensing*, **10**, 126, <http://dx.doi.org/10.3390/rs10010126>
- Bhagawati, C., S. Pandey, S. Dandapat, and A. Chakraborty, 2018: Dynamical significance of tides over the Bay of Bengal. *Dynamics of Atmospheres and Oceans*, **82**, 89-106, <https://doi.org/10.1016/j.dynatmoce.2018.05.002>
- Bittig, H. C., A. Körtzinger, C. Neill, E. van Ooijen, J. N. Plant, J. Hahn, K. S. Johnson, B. Yang, and S. R. Emerson, 2018: Oxygen Optode Sensors: Principle, Characterization, Calibration, and Application in the Ocean. *Frontiers in Marine Science*, **4**, <https://doi.org/10.3389/fmars.2017.00429>
- Bittig, H. C., T. Steinhoff, H. Claustre, B. Fiedler, N. L. Williams, R. Sauzède, A. Körtzinger, and J.-P. Gattuso, 2018: An Alternative to Static Climatologies: Robust Estimation of Open Ocean CO₂ Variables and Nutrient Concentrations From T, S, and O₂ Data Using Bayesian Neural Networks. *Frontiers in Marine Science*, **5**,

- <https://doi.org/10.3389/fmars.2018.00328>
- Boettger, D., R. Robertson, and G. B. Brassington, 2018: Verification of the mixed layer depth in the OceanMAPS operational forecast model for Austral autumn. *Geosci. Model Dev.*, **11**, 3795-3805, <https://doi.org/10.5194/gmd-11-3795-2018>
- Bosse, A., I. Fer, H. Søliland, and T. Rossby, 2018: Atlantic Water Transformation Along Its Poleward Pathway Across the Nordic Seas. *Journal of Geophysical Research: Oceans*, **123**, 6428-6448, <https://doi.org/10.1029/2018JC014147>
- Bouffard, J., M. Naeije, C. J. Banks, F. M. Calafat, P. Cipollini, H. M. Snaith, E. Webb, A. Hall, R. Mannan, P. Féménias, and T. Parrinello, 2018: CryoSat ocean product quality status and future evolution. *Advances in Space Research*, **62**, 1549-1563, <https://doi.org/10.1016/j.asr.2017.11.043>
- Boutin, J., J. L. Vergely, S. Marchand, F. D'Amico, A. Hasson, N. Kolodziejczyk, N. Reul, G. Reverdin, and J. Vialard, 2018: New SMOS Sea Surface Salinity with reduced systematic errors and improved variability. *Remote Sensing of Environment*, **214**, 115-134, <https://doi.org/10.1016/j.rse.2018.05.022>
- Briggs, E. M., T. R. Martz, L. D. Talley, M. R. Mazloff, and K. S. Johnson, 2018: Physical and Biological Drivers of Biogeochemical Tracers Within the Seasonal Sea Ice Zone of the Southern Ocean From Profiling Floats. *Journal of Geophysical Research: Oceans*, **123**, 746-758, <https://doi.org/10.1002/2017JC012846>
- Bronselaer, B., M. Winton, S. M. Griffies, W. J. Hurlin, K. B. Rodgers, O. V. Sergienko, R. J. Stouffer, and J. L. Russell, 2018: Change in future climate due to Antarctic meltwater. *Nature*, **564**, 53-58, <https://doi.org/10.1038/s41586-018-0712-z>
- Burt, W. J. and P. D. Tortell, 2018: Observations of Zooplankton Diel Vertical Migration From High-Resolution Surface Ocean Optical Measurements. *Geophysical Research Letters*, **45**, 13,396-13,404, <https://doi.org/10.1029/2018GL079992>
- Burt, W. J., T. K. Westberry, M. J. Behrenfeld, C. Zeng, R. W. Izett, and P. D. Tortell, 2018: Carbon: Chlorophyll Ratios and Net Primary Productivity of Subarctic Pacific Surface Waters Derived From Autonomous Shipboard Sensors. *Global Biogeochemical Cycles*, **32**, 267-288, <https://doi.org/10.1002/2017GB005783>
- Bushinsky, S. M. and S. R. Emerson, 2018: Biological and physical controls on the oxygen cycle in the Kuroshio Extension from an array of profiling floats. *Deep Sea Research Part I: Oceanographic Research Papers*, **141**, 51-70, <https://doi.org/10.1016/j.dsr.2018.09.005>
- Byju, P., D. Dommenget, and M. A. Alexander, 2018: Widespread Reemergence of Sea Surface Temperature Anomalies in the Global Oceans, Including Tropical Regions Forced by Reemerging Winds. *Geophysical Research Letters*, **45**, 7683-7691, <http://dx.doi.org/10.1029/2018GL079137>
- Capuano, T. A., S. Speich, X. Carton, and R. Laxenaire, 2018: Indo-Atlantic Exchange, Mesoscale Dynamics, and Antarctic Intermediate Water. *Journal of Geophysical Research: Oceans*, **123**, 3286-3306, <https://doi.org/10.1002/2017JC013521>
- Carranza, M. M., S. T. Gille, P. J. S. Franks, K. S. Johnson, R. Pinkel, and J. B. Girton, 2018: When Mixed Layers Are Not Mixed. Storm-Driven Mixing and Bio-optical Vertical Gradients in Mixed Layers of the Southern Ocean. *Journal of Geophysical Research: Oceans*, **123**, 7264-7289, <https://doi.org/10.1029/2018JC014416>

- Carton, J. A., G. A. Chepurin, and L. Chen, 2018: SODA3: A New Ocean Climate Reanalysis. *Journal of Climate*, **31**, 6967-6983, <https://doi.org/10.1175/JCLI-D-18-0149.1>
- Carton, J. A., G. A. Chepurin, L. Chen, and S. A. Grodsky, 2018: Improved Global Net Surface Heat Flux. *Journal of Geophysical Research: Oceans*, **123**, 3144-3163, <https://doi.org/10.1002/2017JC013137>
- Cazenave, A., H. Palanisamy, and M. Ablain, 2018: Contemporary sea level changes from satellite altimetry: What have we learned? What are the new challenges? *Advances in Space Research*, **62**, 1639-1653, <https://doi.org/10.1016/j.asr.2018.07.017>
- Cazenave A., M. B., Ablain M., Balmaseda M., Bamber J., Barletta V., Beckley B., Benveniste J., Berthier E., Blazquez A., Boyer T., Caceres D., Chambers D., Champollion N., Chao B., Chen J., Cheng L., Church J. A., Chuter S., Cogley J. G., Dangendorf S., Desbruyeres D., Doell P., Domingues C., Falk U., Famiglietti J., Fenoglio-Marc L., Forsberg R., Galassi G., Gardner A., Groh A., Hamlington B., Hogg A., Horwath M., Humphrey V., Husson L., Ishii M., Jaeggi A., Jevrejeva S., Johnson G., Kolodziejczyk N., Kusche J., Lambeck K., Landerer F., Leclercq P., Legresy B., Leuliette E., Llovel W., Longuevergne L., Loomis B. D., Luthcke S. B., Marcos M., Marzeion B., Merchant C., Merrifield M., Milne G., Mitchum G., Mohajerani Y., Monier M., Monselesan D., Nerem S., Palanisamy H., Paul F., Perez B., Piecuch Christopher G., Ponte Rui M., Purkey S. G., Reager J. T., Rietbroek R., Rignot E., Riva R., Roemmich D. H., Sorensen L. S., Sasgen I., Schrama E. J. O., Seneviratne S. I., Shum C. K., Spada G., Stammer D., Van De Wal R., Velicogna I., Von Schuckmann K., Wada Y., Wang Y., Watson C., Wiese D., Wijffels S., Westaway R., Woppelmann G., Wouters B. and W. G. S. L. B. Group, 2018: Global sea-level budget 1993–present. *Earth Syst. Sci. Data*, **10**, 1551-1590, <https://doi.org/10.5194/essd-10-1551-2018>
- Cha, S.-C., J.-H. Moon, and Y. T. Song, 2018: A Recent Shift Toward an El Niño-Like Ocean State in the Tropical Pacific and the Resumption of Ocean Warming. *Geophysical Research Letters*, **45**, 11,885-11,894, <https://doi.org/10.1029/2018GL080651>
- Chacko, N., 2018: Insights into the haline variability induced by cyclone Vardah in the Bay of Bengal using SMAP salinity observations. *Remote Sensing Letters*, **9**, 1205-1213, <https://doi.org/10.1080/2150704X.2018.1519271>
- Chakraborty, K., V. Valsala, G. V. M. Gupta, and V. V. S. S. Sarma, 2018: Dominant Biological Control Over Upwelling on pCO₂ in Sea East of Sri Lanka. *Journal of Geophysical Research: Biogeosciences*, **123**, 3250-3261, <https://doi.org/10.1029/2018JG004446>
- Chamberlain, P. M., L. D. Talley, M. R. Mazloff, S. C. Riser, K. Speer, A. R. Gray, and A. Schwartzman, 2018: Observing the Ice-Covered Weddell Gyre With Profiling Floats: Position Uncertainties and Correlation Statistics. *Journal of Geophysical Research: Oceans*, **123**, 8383-8410, <https://doi.org/10.1029/2017JC012990>
- Chang, Y.-S., S. Zhang, A. Rosati, G. A. Vecchi, and X. Yang, 2018: An OSSE Study for Deep Argo Array using the GFDL Ensemble Coupled Data Assimilation System. *Ocean Science Journal*, **53**, 179-189, <https://doi.org/10.1007/s12601-018-0007-1>
- Charpentier, E., 2018: Managing Meteorological and Oceanographic In Situ Data in the WMO Framework. *Observing the Oceans in Real Time*, R. Venkatesan, A. Tandon, E. D'Asaro, and M. A. Atmanand, Eds., Springer International Publishing, 281-300, https://doi.org/10.1007/978-3-319-66493-4_14.

- Chatterjee, S., R. P. Raj, L. Bertino, Ø. Skagseth, M. Ravichandran, and O. M. Johannessen, 2018: Role of Greenland Sea Gyre Circulation on Atlantic Water Temperature Variability in the Fram Strait. *Geophysical Research Letters*, **45**, 8399-8406, <https://doi.org/10.1029/2018GL079174>
- Chen, C., Y. Ma, and Y. Liu, 2018: Reconstructing Sound speed profiles worldwide with Sea surface data. *Applied Ocean Research*, **77**, 26-33, <https://doi.org/10.1016/j.apor.2018.05.002>
- Chen, G., L. Peng, and C. Ma, 2018: Climatology and seasonality of upper ocean salinity: a three-dimensional view from argo floats. *Climate Dynamics*, **50**, 2169-2182, <https://doi.org/10.1007/s00382-017-3742-6>
- Chen, J., B. Tapley, H. Save, M. E. Tamisiea, S. Bettadpur, and J. Ries, 2018: Quantification of Ocean Mass Change Using Gravity Recovery and Climate Experiment, Satellite Altimeter, and Argo Floats Observations. *Journal of Geophysical Research: Solid Earth*, **123**, 10,212-10,225, <https://doi.org/10.1029/2018JB016095>
- Chen, S., F. Qiao, C. Huang, and Z. Song, 2018: Effects of the Non-breaking Surface Wave-induced Vertical Mixing on Winter Mixed Layer Depth in Subtropical Regions. *Journal of Geophysical Research: Oceans*, **123**, 2934-2944, <https://doi.org/10.1002/2017JC013038>
- Chen, X., S. Liu, Y. Cai, and S. Zhang, 2018: Potential effects of subduction rate in the key ocean on global warming hiatus. *Acta Oceanologica Sinica*, **37**, 63-68, <https://doi.org/10.1007/s13131-017-1130-z>
- Chen, X. and K.-K. Tung, 2018: Global surface warming enhanced by weak Atlantic overturning circulation. *Nature*, **559**, 387-391, <https://doi.org/10.1038/s41586-018-0320-y>
- Chen, Y., Z. Wu, and Q. P. Li, 2018: Temporal Change of Export Production at Xisha of the Northern South China Sea. *Journal of Geophysical Research: Oceans*, **123**, 9305-9319, <https://doi.org/10.1029/2017JC013619>
- Chen, Y., F. Zhang, B. W. Green, and X. Yu, 2018: Impacts of Ocean Cooling and Reduced Wind Drag on Hurricane Katrina (2005) Based on Numerical Simulations. *Monthly Weather Review*, **146**, 287-306, <https://doi.org/10.1175/MWR-D-17-0170.1>
- Cheng, L. and G. Gao, 2018: Evaluation of spatial distribution of turbulent mixing in the central Pacific. *Journal of Oceanography*, **74**, 471-483, <https://doi.org/10.1007/s10872-018-0473-1>
- Cheng, L., G. Wang, J. Abraham, and G. Huang, 2018: Decadal Ocean Heat Redistribution Since the Late 1990s and Its Association with Key Climate Modes. *Climate*, **6**, 91, <https://doi.org/10.3390/cli6040091>
- Cheng, L. and J. Zhu, 2018: 2017 was the warmest year on record for the global ocean. *Advances in Atmospheric Sciences*, **35**, 261-263, <https://doi.org/10.1007/s00376-018-8011-z>
- Cheng, X., J. P. McCreary, B. Qiu, Y. Qi, Y. Du, and X. Chen, 2018: Dynamics of Eddy Generation in the Central Bay of Bengal. *Journal of Geophysical Research: Oceans*, **123**, 6861-6875, <https://doi.org/10.1029/2018JC014100>
- Chiang, T.-L., Y.-C. Hsin, and C.-R. Wu, 2018: Multidecadal Changes of Upper-Ocean Thermal Conditions in the Tropical Northwest Pacific Ocean versus South China Sea during

- 1960–2015. *Journal of Climate*, **31**, 3999–4016, <https://doi.org/10.1175/JCLI-D-17-0394.1>
- Chu, P. C., T. Margolina, D. Rodriguez, C. Fan, and L. M. Ivanov, 2018: Spatial and temporal variability of the California Current identified from the synoptic monthly gridded World Ocean Database (WOD). *Deep Sea Research Part II: Topical Studies in Oceanography*, **151**, 37–48, <https://doi.org/10.1016/j.dsr2.2018.05.019>
- Claret, M., E. D. Galbraith, J. B. Palter, D. Bianchi, K. Fennel, D. Gilbert, and J. P. Dunne, 2018: Rapid coastal deoxygenation due to ocean circulation shift in the northwest Atlantic. *Nature Climate Change*, **8**, 868–872, <https://doi.org/10.1038/s41558-018-0263-1>
- Colin de Verdière, A., T. Huck, S. Pogossian, and M. Ollitrault, 2018: Available Potential Energy in Density Coordinates. *Journal of Physical Oceanography*, **48**, 1867–1883, <https://doi.org/10.1175/JPO-D-17-0272.1>
- Conan, P., P. Testor, C. Estournel, F. D'Ortenzio, M. Pujon-Pay, and X. Durrieu de Madron, 2018: Preface to the Special Section: Dense Water Formations in the Northwestern Mediterranean: From the Physical Forcings to the Biogeochemical Consequences. *Journal of Geophysical Research: Oceans*, **123**, 6983–6995, <https://doi.org/10.1029/2018JC014301>
- Cummins, P. F. and D. Masson, 2018: Low-frequency isopycnal variability in the Alaska Gyre from Argo. *Progress in Oceanography*, **168**, 310–324, <https://doi.org/10.1016/j.pocean.2018.09.014>
- Czeschel, R., F. Schütte, R. A. Weller, and L. Stramma, 2018: Transport, properties, and life cycles of mesoscale eddies in the eastern tropical South Pacific. *Ocean Sci.*, **14**, 731–750, <https://doi.org/10.5194/os-14-731-2018>
- D'Addezio, J. M. and B. Subrahmanyam, 2018: Evidence of organized intraseasonal convection linked to ocean dynamics in the Seychelles–Chagos thermocline ridge. *Climate Dynamics*, **51**, 3405–3420, <https://doi.org/10.1007/s00382-018-4087-5>
- Damien, P., O. Pasqueron de Fommervault, J. Sheinbaum, J. Jouanno, V. F. Camacho-Ibar, and O. Duteil, 2018: Partitioning of the Open Waters of the Gulf of Mexico Based on the Seasonal and Interannual Variability of Chlorophyll Concentration. *Journal of Geophysical Research: Oceans*, **123**, 2592–2614, <https://doi.org/10.1002/2017JC013456>
- Dandapat, S., A. Chakraborty, and J. Kuttippurath, 2018: Interannual variability and characteristics of the East India Coastal Current associated with Indian Ocean Dipole events using a high resolution regional ocean model. *Ocean Dynamics*, **68**, 1321–1334, <https://doi.org/10.1007/s10236-018-1201-5>
- Dassié, E. P., A. Hasson, M. Khodri, N. Lebas, and B. K. Linsley, 2018: Spatiotemporal Variability of the South Pacific Convergence Zone Fresh Pool Eastern Front from Coral-Derived Surface Salinity Data. *Journal of Climate*, **31**, 3265–3288, <https://doi.org/10.1175/JCLI-D-17-0071.1>
- Davis, R. E., L. D. Talley, D. Roemmich, W. B. Owens, D. L. Rudnick, J. Toole, R. Weller, M. J. McPhaden, and J. A. Barth, 2018: 100 Years of Progress in Ocean Observing Systems. *Meteorological Monographs*, **59**, 3.1–3.46, <https://doi.org/10.1175/AMSMONOGRAPHS-D-18-0014.1>
- Dawson, H. R. S., P. G. Strutton, and P. Gaube, 2018: The Unusual Surface Chlorophyll

- Signatures of Southern Ocean Eddies. *Journal of Geophysical Research: Oceans*, **123**, 6053-6069, <https://doi.org/10.1029/2017JC013628>
- de Boissésou, E., M. A. Balmaseda, and M. Mayer, 2018: Ocean heat content variability in an ensemble of twentieth century ocean reanalyses. *Climate Dynamics*, **50**, 3783-3798, <https://doi.org/10.1007/s00382-017-3845-0>
- de Jong, M. F., H. Søliland, A. S. Bower, and H. H. Furey, 2018: The subsurface circulation of the Iceland Sea observed with RAFOS floats. *Deep Sea Research Part I: Oceanographic Research Papers*, **141**, 1-10, <https://doi.org/10.1016/j.dsr.2018.07.008>
- de Souza, A. G. Q., R. Kerr, and J. L. L. d. Azevedo, 2018: On the influence of Subtropical Mode Water on the South Atlantic Ocean. *Journal of Marine Systems*, **185**, 13-24, <https://doi.org/10.1016/j.jmarsys.2018.04.006>
- Deb, P., M. K. Dash, and P. C. Pandey, 2018: Barrier layer characteristics of the Indian Ocean sector of the Southern Ocean during austral summer and autumn. *Polar Science*, **18**, 176-182, <https://doi.org/10.1016/j.polar.2018.04.007>
- Dilmahamod, A. F., B. Aguiar-González, P. Penven, C. J. C. Reason, W. P. M. De Ruijter, N. Malan, and J. C. Hermes, 2018: SIDDIES Corridor: A Major East-West Pathway of Long-Lived Surface and Subsurface Eddies Crossing the Subtropical South Indian Ocean. *Journal of Geophysical Research: Oceans*, **123**, 5406-5425, <https://doi.org/10.1029/2018JC013828>
- Ding, Y., Z. Yao, L. Zhou, M. Bao, and Z. Zang, 2018: Numerical modeling of the seasonal circulation in the coastal ocean of the Northern South China Sea. *Frontiers of Earth Science*, <https://doi.org/10.1007/s11707-018-0741-9>
- Doddridge, E. W. and D. P. Marshall, 2018: Implications of Eddy Cancellation for Nutrient Distribution Within Subtropical Gyres. *Journal of Geophysical Research: Oceans*, **123**, 6720-6735, <https://doi.org/10.1029/2018JC013842>
- Doorga, J. R. S., O. Gooroochurn, B. A. Motah, V. Ramchandur, and S. Sunassee, 2018: A novel modelling approach to the identification of optimum sites for the placement of ocean thermal energy conversion (OTEC) power plant: application to the tropical island climate of Mauritius. *International Journal of Energy and Environmental Engineering*, **9**, 363-382, <https://doi.org/10.1007/s40095-018-0278-4>
- Droghei, R., B. Buongiorno Nardelli, and R. Santoleri, 2018: A New Global Sea Surface Salinity and Density Dataset From Multivariate Observations (1993–2016). *Frontiers in Marine Science*, **5**, <https://doi.org/10.3389/fmars.2018.00084>
- DuVivier, A. K., W. G. Large, and R. J. Small, 2018: Argo Observations of the Deep Mixing Band in the Southern Ocean: A Salinity Modeling Challenge. *Journal of Geophysical Research: Oceans*, **123**, 7599-7617, <https://doi.org/10.1029/2018JC014275>
- Dwivedi, S., A. Srivastava, and A. K. Mishra, 2018: Upper Ocean Four-Dimensional Variational Data Assimilation in the Arabian Sea and Bay of Bengal. *Marine Geodesy*, **41**, 230-257, <https://doi.org/10.1080/01490419.2017.1405128>
- Fawcett, S. E., K. S. Johnson, S. C. Riser, N. Van Oostende, and D. M. Sigman, 2018: Low-nutrient organic matter in the Sargasso Sea thermocline: A hypothesis for its role, identity, and carbon cycle implications. *Marine Chemistry*, **207**, 108-123, <https://doi.org/10.1016/j.marchem.2018.10.008>
- Fay, A. R., N. S. Lovenduski, G. A. McKinley, D. R. Munro, C. Sweeney, A. R. Gray, P.

- Landschützer, B. B. Stephens, T. Takahashi, and N. Williams, 2018: Utilizing the Drake Passage Time-series to understand variability and change in subpolar Southern Ocean pCO₂. *Biogeosciences*, **15**, 3841-3855, <https://doi.org/10.5194/bg-15-3841-2018>
- Feng, J., D. Hu, F.-f. Jin, F. Jia, Q. Wang, and S. Guan, 2018: The different relationship of Pacific interior subtropical cells and two types of ENSO. *Journal of Oceanography*, **74**, 523-539, <https://doi.org/10.1007/s10872-018-0478-9>
- Fenwick, L. and P. D. Tortell, 2018: Methane and nitrous oxide distributions in coastal and open ocean waters of the Northeast Subarctic Pacific during 2015–2016. *Marine Chemistry*, **200**, 45-56, <https://doi.org/10.1016/j.marchem.2018.01.008>
- Ferster, B. S. and B. Subrahmanyam, 2018: A Comparison of Satellite-Derived Sea Surface Salinity and Salt Fluxes in the Southern Ocean. *Remote Sensing in Earth Systems Sciences*, **1**, 1-13, <https://doi.org/10.1007/s41976-018-0001-5>
- Ferster, B. S., B. Subrahmanyam, I. Fukumori, and E. S. Nyadjro, 2018: Variability of Southern Ocean Transports. *Journal of Physical Oceanography*, **48**, 2667-2688, <https://doi.org/10.1175/JPO-D-18-0055.1>
- Filyushkin, B. N., M. A. Sokolovskiy, and K. V. Lebedev, 2018: Evolution of an Intrathermocline Lens over the Lofoten Basin. *The Ocean in Motion: Circulation, Waves, Polar Oceanography*, M. G. Velarde, R. Y. Tarakanov, and A. V. Marchenko, Eds., Springer International Publishing, 333-347, https://doi.org/10.1007/978-3-319-71934-4_21.
- Fischer, J., J. Karstensen, M. Oltmanns, and S. Schmidtko, 2018: Mean circulation and EKE distribution in the Labrador Sea Water level of the subpolar North Atlantic. *Ocean Sci.*, **14**, 1167-1183, <https://doi.org/10.5194/os-14-1167-2018>
- Foltz, G. R., C. Schmid, and R. Lumpkin, 2018: An Enhanced PIRATA Dataset for Tropical Atlantic Ocean–Atmosphere Research. *Journal of Climate*, **31**, 1499-1524, <https://doi.org/10.1175/JCLI-D-16-0816.1>
- Fraser, C. I., A. K. Morrison, A. M. Hogg, E. C. Macaya, E. van Sebille, P. G. Ryan, A. Padovan, C. Jack, N. Valdivia, and J. M. Waters, 2018: Antarctica's ecological isolation will be broken by storm-driven dispersal and warming. *Nature Climate Change*, **8**, 704-708, <https://doi.org/10.1038/s41558-018-0209-7>
- French-McCay, D. P., M. Horn, Z. Li, K. Jayko, M. L. Spaulding, D. Crowley, and D. Mendelsohn, 2018: Chapter 31 - Modeling Distribution, Fate, and Concentrations of Deepwater Horizon Oil in Subsurface Waters of the Gulf of Mexico A2 - Stout, Scott A. *Oil Spill Environmental Forensics Case Studies*, Z. Wang, Ed., Butterworth-Heinemann, 683-735, <https://doi.org/10.1016/B978-0-12-804434-6.00031-8>.
- Fresnay, S., A. L. Ponte, S. L. Gentil, and J. L. Sommer, 2018: Reconstruction of the 3-D Dynamics From Surface Variables in a High-Resolution Simulation of North Atlantic. *Journal of Geophysical Research: Oceans*, **123**, 1612-1630, <https://doi.org/10.1002/2017JC013400>
- Fu, L.-L. and D. Roemmich, 2018: Monitoring Global Sea Level Change from Spaceborne and In Situ Observing Systems. *The Bridge (National Academy of Engineering)*, **48**, <https://www.nae.edu/Publications/Bridge/195218/195285.aspx>

- Fukumori, I., P. Heimbach, R. M. Ponte, and C. Wunsch, 2018: A Dynamically Consistent, Multivariable Ocean Climatology. *Bulletin of the American Meteorological Society*, **99**, 2107-2128, <https://doi.org/10.1175/BAMS-D-17-0213.1>
- Furue, R., K. Takatama, H. Sasaki, N. Schneider, M. Nonaka, and B. Taguchi, 2018: Impacts of sea-surface salinity in an eddy-resolving semi-global OGCM. *Ocean Modelling*, **122**, 36-56, <https://doi.org/10.1016/j.ocemod.2017.11.004>
- Gao, L., S. R. Rintoul, and W. Yu, 2018: Recent wind-driven change in Subantarctic Mode Water and its impact on ocean heat storage. *Nature Climate Change*, **8**, 58-63, <https://doi.org/10.1038/s41558-017-0022-8>
- Garreau, P., F. Dumas, S. Louazel, A. Stegner, and B. Le Vu, 2018: High-Resolution Observations and Tracking of a Dual-Core Anticyclonic Eddy in the Algerian Basin. *Journal of Geophysical Research: Oceans*, **123**, 9320-9339, <https://doi.org/10.1029/2017JC013667>
- Gasparin, F., E. Greiner, J.-M. Lellouche, O. Legalloudec, G. Garric, Y. Drillet, R. Bourdallé-Badie, P.-Y. L. Traon, E. Rémy, and M. Drévillon, 2018: A large-scale view of oceanic variability from 2007 to 2015 in the global high resolution monitoring and forecasting system at Mercator Océan. *Journal of Marine Systems*, **187**, 260-276, <https://doi.org/10.1016/j.jmarsys.2018.06.015>
- Gaube, P., C. D. Braun, G. L. Lawson, D. J. McGillicuddy, A. D. Penna, G. B. Skomal, C. Fischer, and S. R. Thorrold, 2018: Mesoscale eddies influence the movements of mature female white sharks in the Gulf Stream and Sargasso Sea. *Scientific Reports*, **8**, 7363, <https://doi.org/10.1038/s41598-018-25565-8>
- Geng, Y., Q. Wang, and M. Mu, 2018: Effect of the Decadal Kuroshio Extension Variability on the Seasonal Changes of the Mixed-Layer Salinity Anomalies in the Kuroshio-Oyashio Confluence Region. *Journal of Geophysical Research: Oceans*, **123**, 8849-8861, <https://doi.org/10.1029/2018JC014139>
- Gentile, V., S. Pierini, P. de Ruggiero, and L. Pietranera, 2018: Ocean modelling and altimeter data reveal the possible occurrence of intrinsic low-frequency variability of the Kuroshio Extension. *Ocean Modelling*, **131**, 24-39, <https://doi.org/10.1016/j.ocemod.2018.08.006>
- Germe, A., F. Sévellec, J. Mignot, A. Fedorov, S. Nguyen, and D. Swingedouw, 2018: The impacts of oceanic deep temperature perturbations in the North Atlantic on decadal climate variability and predictability. *Climate Dynamics*, **51**, 2341-2357, <https://doi.org/10.1007/s00382-017-4016-z>
- Ghosh, S., S. Hazra, S. Nandy, P. P. Mondal, T. Watham, and S. P. S. Kushwaha, 2018: Trends of sea level in the Bay of Bengal using altimetry and other complementary techniques. *Journal of Spatial Science*, **63**, 49-62, <http://dx.doi.org/10.1080/14498596.2017.1348309>
- Giglio, D., V. Lyubchich, and M. R. Mazloff, 2018: Estimating Oxygen in the Southern Ocean Using Argo Temperature and Salinity. *Journal of Geophysical Research: Oceans*, **123**, 4280-4297, <https://doi.org/10.1029/2017JC013404>
- Goes, M., J. Christophersen, S. Dong, G. Goni, and M. O. Baringer, 2018: An Updated Estimate of Salinity for the Atlantic Ocean Sector Using Temperature-Salinity Relationships. *Journal of Atmospheric and Oceanic Technology*, **35**, 1771-1784,

- <https://doi.org/10.1175/JTECH-D-18-0029.1>
- Gouretski, V., 2018: World Ocean Circulation Experiment – Argo Global Hydrographic Climatology. *Ocean Sci.*, **14**, 1127-1146, <https://doi.org/10.5194/os-14-1127-2018>
- Grados, C., A. Chaigneau, V. Echevin, and N. Dominguez, 2018: Upper ocean hydrology of the Northern Humboldt Current System at seasonal, interannual and interdecadal scales. *Progress in Oceanography*, **165**, 123-144, <https://doi.org/10.1016/j.pocean.2018.05.005>
- Gray, A. R., K. S. Johnson, S. M. Bushinsky, S. C. Riser, J. L. Russell, L. D. Talley, R. Wanninkhof, N. L. Williams, and J. L. Sarmiento, 2018: Autonomous Biogeochemical Floats Detect Significant Carbon Dioxide Outgassing in the High-Latitude Southern Ocean. *Geophysical Research Letters*, **45**, 9049-9057, <https://doi.org/10.1029/2018GL078013>
- Grodsky, S. A. and J. A. Carton, 2018: Delayed and Quasi-Synchronous Response of Tropical Atlantic Surface Salinity to Rainfall. *Journal of Geophysical Research: Oceans*, **123**, 5971-5985, <https://doi.org/10.1029/2018JC013915>
- Grodsky, S. A., D. Vandemark, and H. Feng, 2018: Assessing Coastal SMAP Surface Salinity Accuracy and Its Application to Monitoring Gulf of Maine Circulation Dynamics. *Remote Sensing*, **10**, 1232, <https://doi.org/10.3390/rs10081232>
- Guerra, L. A. A., A. M. Paiva, and E. P. Chassignet, 2018: On the translation of Agulhas rings to the western South Atlantic Ocean. *Deep Sea Research Part I: Oceanographic Research Papers*, **139**, 104-113, <https://doi.org/10.1016/j.dsr.2018.08.005>
- Guest, P., P. O. G. Persson, S. Wang, M. Jordan, Y. Jin, B. Blomquist, and C. Fairall, 2018: Low-Level Baroclinic Jets Over the New Arctic Ocean. *Journal of Geophysical Research: Oceans*, **123**, 4074-4091, <https://doi.org/10.1002/2018JC013778>
- Guieu, C., S. Bonnet, A. Petrenko, C. Menkes, V. Chavagnac, K. Desboeufs, C. Maes, and T. Moutin, 2018: Iron from a submarine source impacts the productive layer of the Western Tropical South Pacific (WTSP). *Scientific Reports*, **8**, 9075, <https://doi.org/10.1038/s41598-018-27407-z>
- Gulakaram, V. S., N. K. Vissa, and P. K. Bhaskaran, 2018: Role of mesoscale eddies on atmospheric convection during summer monsoon season over the Bay of Bengal: A case study. *Journal of Ocean Engineering and Science*, **3**, 343-354, <https://doi.org/10.1016/j.joes.2018.11.002>
- Guo, Y., X. Lin, M. Wei, C. Liu, and G. Men, 2018: Decadal Variability of North Pacific Eastern Subtropical Mode Water. *Journal of Geophysical Research: Oceans*, **123**, 6189-6206, <https://doi.org/10.1029/2018JC013890>
- Haavisto, N., L. Tuomi, P. Roiha, S.-M. Siiriä, P. Alenius, and T. Purokoski, 2018: Argo Floats as a Novel Part of the Monitoring the Hydrography of the Bothnian Sea. *Frontiers in Marine Science*, **5**, <https://doi.org/10.3389/fmars.2018.00324>
- Hamilton, P., R. Leben, A. Bower, H. Furey, and P. Pérez-Brunius, 2018: Hydrography of the Gulf of Mexico Using Autonomous Floats. *Journal of Physical Oceanography*, **48**, 773-794, <https://doi.org/10.1175/JPO-D-17-0205.1>
- Handmann, P., J. Fischer, M. Visbeck, J. Karstensen, A. Biastoch, C. Böning, and L. Patara, 2018: The Deep Western Boundary Current in the Labrador Sea From Observations and a High-Resolution Model. *Journal of Geophysical Research: Oceans*, **123**, 2829-2850, <https://doi.org/10.1002/2017JC013702>

- Hart-Davis, M. G., B. C. Backeberg, I. Halo, E. van Sebille, and J. A. Johannessen, 2018: Assessing the accuracy of satellite derived ocean currents by comparing observed and virtual buoys in the Greater Agulhas Region. *Remote Sensing of Environment*, **216**, 735-746, <https://doi.org/10.1016/j.rse.2018.03.040>
- Hasson, A., M. Puy, J. Boutin, E. Guilyardi, and R. Morrow, 2018: Northward Pathway Across the Tropical North Pacific Ocean Revealed by Surface Salinity: How do El Niño Anomalies Reach Hawaii? *Journal of Geophysical Research: Oceans*, **123**, 2697-2715, <https://doi.org/10.1002/2017JC013423>
- Hautala, S. L., 2018: The abyssal and deep circulation of the Northeast Pacific Basin. *Progress in Oceanography*, **160**, 68-82, <https://doi.org/10.1016/j.pocean.2017.11.011>
- He, Q., H. Zhan, S. Cai, Y. He, G. Huang, and W. Zhan, 2018: A New Assessment of Mesoscale Eddies in the South China Sea: Surface Features, Three-Dimensional Structures, and Thermohaline Transports. *Journal of Geophysical Research: Oceans*, **123**, 4906-4929, <https://doi.org/10.1029/2018JC014054>
- Hernandez-Lasheras, J. and B. Mourre, 2018: Dense CTD survey versus glider fleet sampling: comparing data assimilation performance in a regional ocean model west of Sardinia. *Ocean Sci.*, **14**, 1069-1084, <https://doi.org/10.5194/os-14-1069-2018>
- Hong, J.-S., J.-H. Moon, T. Kim, and J.-H. Lee, 2018: Impact of ocean-wave coupling on typhoon-induced waves and surge levels around the Korean Peninsula: a case study of Typhoon Bolaven. *Ocean Dynamics*, **68**, 1543-1557, <https://doi.org/10.1007/s10236-018-1218-9>
- Horii, T., I. Ueki, and K. Ando, 2018: Coastal upwelling events along the southern coast of Java during the 2008 positive Indian Ocean Dipole. *Journal of Oceanography*, **74**, 499-508, <https://doi.org/10.1007/s10872-018-0475-z>
- Hou, H., F. Yu, F. Nan, B. Yang, S. Guan, and Y. Zhang, 2018: Observation of Near-Inertial Oscillations Induced by Energy Transformation during Typhoons. *Energies*, **12**, 99, <https://dx.doi.org/10.3390/en12010099>
- Hu, Q., K. Qu, H. Gao, Z. Cui, Y. Gao, and X. Yao, 2018: Large Increases in Primary Trimethylaminium and Secondary Dimethylaminium in Atmospheric Particles Associated With Cyclonic Eddies in the Northwest Pacific Ocean. *Journal of Geophysical Research: Atmospheres*, **123**, 12,133-12,146, <https://doi.org/10.1029/2018JD028836>
- Hu, S., J. Sprintall, C. Guan, B. Sun, F. Wang, G. Yang, F. Jia, J. Wang, D. Hu, and F. Chai, 2018: Spatiotemporal Features of Intraseasonal Oceanic Variability in the Philippine Sea From Mooring Observations and Numerical Simulations. *Journal of Geophysical Research: Oceans*, **123**, 4874-4887, <https://doi.org/10.1029/2017JC013653>
- Huang, B., W. Angel, T. Boyer, L. Cheng, G. Chepurin, E. Freeman, C. Liu, and H.-M. Zhang, 2018: Evaluating SST Analyses with Independent Ocean Profile Observations. *Journal of Climate*, **31**, 5015-5030, <https://doi.org/10.1175/JCLI-D-17-0824.1>
- Huang, B., J. Kennedy, Y. Xue, and H.-M. Zhang, 2018: Global Oceans: Sea surface temperatures in the State of the Climate in 2017. *Bull. Am. Meteorol. Soc.*, **99**, S69 - S72, <https://doi.org/10.1175/2018BAMSStateoftheClimate.1>
- Huang, J. and F. Xu, 2018: Observational Evidence of Subsurface Chlorophyll Response to Mesoscale Eddies in the North Pacific. *Geophysical Research Letters*, **45**, 8462-8470,

- <https://doi.org/10.1029/2018GL078408>
- Huang, Z., W. Zhuang, H. Liu, and J. Hu, 2018: Subduction of a low-salinity water mass around the Xisha Islands in the South China Sea. *Scientific Reports*, **8**, 3074, <https://doi.org/10.1038/s41598-018-21364-3>
- Izett, R. W., C. C. Manning, R. C. Hamme, and P. D. Tortell, 2018: Refined Estimates of Net Community Production in the Subarctic Northeast Pacific Derived From $\Delta O_2/Ar$ Measurements With N_2O -Based Corrections for Vertical Mixing. *Global Biogeochemical Cycles*, **32**, 326-350, <https://doi.org/10.1002/2017GB005792>
- Jackson, J. M., G. C. Johnson, H. V. Dossler, and T. Ross, 2018: Warming From Recent Marine Heatwave Lingers in Deep British Columbia Fjord. *Geophysical Research Letters*, **45**, 9757-9764, <https://doi.org/10.1029/2018GL078971>
- Jeon, C., J.-H. Park, D. G. Kim, E. Kim, and D. Jeon, 2018: Comparison of Measurements from Pressure-recording Inverted Echo Sounders and Satellite Altimetry in the North Equatorial Current Region of the Western Pacific. *Ocean Science Journal*, **53**, 207-213, <https://doi.org/10.1007/s12601-018-0012-4>
- Ji, J., C. Dong, B. Zhang, Y. Liu, B. Zou, G. P. King, G. Xu, and D. Chen, 2018: Oceanic Eddy Characteristics and Generation Mechanisms in the Kuroshio Extension Region. *Journal of Geophysical Research: Oceans*, **123**, 8548-8567, <https://doi.org/10.1029/2018JC014196>
- Jin, X., Y.-O. Kwon, C. C. Ummenhofer, H. Seo, F. U. Schwarzkopf, A. Biastoch, C. W. Böning, and J. S. Wright, 2018: Influences of Pacific Climate Variability on Decadal Subsurface Ocean Heat Content Variations in the Indian Ocean. *Journal of Climate*, **31**, 4157-4174, <https://doi.org/10.1175/JCLI-D-17-0654.1>
- Johnson, G. C., J. M. Lyman, T. Boyer, L. Cheng, C. M. Domingues, J. Gilson, M. Ishii, R. Killick, D. Monselesan, S. G. Purkey, and S. Wijffels, 2018: Global Oceans: Ocean heat content in State of the Climate in 2017. *Bull. Am. Meteorol. Soc.*, **99**, S72 - S77, <https://doi.org/10.1175/2018BAMSStateoftheClimate.1>
- Johnson, G. C., J. Reagan, J. M. Lyman, T. Boyer, C. Schmid, and R. Locarnini, 2018: Global Oceans: Salinity in the State of the Climate in 2017. *Bull. Am. Meteorol. Soc.*, **99**, S77 - <https://doi.org/10.1175/2018BAMSStateoftheClimate.1>
- Jones, D. C., G. Forget, B. Sinha, S. A. Josey, E. J. D. Boland, A. J. S. Meijers, and E. Shuckburgh, 2018: Local and Remote Influences on the Heat Content of the Labrador Sea: An Adjoint Sensitivity Study. *Journal of Geophysical Research: Oceans*, **123**, 2646-2667, <https://doi.org/10.1002/2018JC013774>
- Josey, S. A., J. J. M. Hirschi, B. Sinha, A. Duchez, J. P. Grist, and R. Marsh (2018), The Recent Atlantic Cold Anomaly: Causes, Consequences, and Related Phenomena, *Annual Review of Marine Science*, *10*(1), 475-501, doi: <https://doi.org/10.1146/annurev-marine-121916-063102>.
- Kakatkar, R., C. Gnanaseelan, J. S. Chowdary, A. Parekh, and J. S. Deepa, 2018: Indian summer monsoon rainfall variability during 2014 and 2015 and associated Indo-Pacific upper ocean temperature patterns. *Theoretical and Applied Climatology*, **131**, 1235-1247, <https://doi.org/10.1007/s00704-017-2046-4>
- Kakatkar, R., C. Gnanaseelan, J. S. Deepa, J. Chowdary, and A. Parekh, 2018: Role of ocean-atmosphere interactions in modulating the 2016 La Niña like pattern over the

- tropical Pacific. *Dynamics of Atmospheres and Oceans*, **83**, 100-110, <https://doi.org/10.1016/j.dynatmoce.2018.07.003>
- Kamidaira, Y., Y. Uchiyama, H. Kawamura, T. Kobayashi, and A. Furuno, 2018: Submesoscale Mixing on Initial Dilution of Radionuclides Released From the Fukushima Daiichi Nuclear Power Plant. *Journal of Geophysical Research: Oceans*, **123**, 2808-2828, <https://doi.org/10.1002/2017JC013359>
- Kao, H.-Y., G. S. E. Lagerloef, T. Lee, O. Melnichenko, T. Meissner, and P. Hacker, 2018: Assessment of Aquarius Sea Surface Salinity. *Remote Sensing*, **10**, 1341, <https://doi.org/10.3390/rs10091341>
- Karmakar, A., A. Parekh, J. S. Chowdary, and C. Gnanaseelan, 2018: Inter comparison of Tropical Indian Ocean features in different ocean reanalysis products. *Climate Dynamics*, **51**, 119-141, <https://doi.org/10.1007/s00382-017-3910-8>
- Katsura, S., 2018: Properties, formation, and dissipation of the North Pacific Eastern Subtropical Mode Water and its impact on interannual spiciness anomalies. *Progress in Oceanography*, **162**, 120-131, <https://doi.org/10.1016/j.pocean.2018.02.023>
- Kaurkin, M. N., R. A. Ibrayev, and K. P. Belyaev, 2018: Assimilation of the AVISO Altimetry Data into the Ocean Dynamics Model with a High Spatial Resolution Using Ensemble Optimal Interpolation (EnOI). *Izvestiya, Atmospheric and Oceanic Physics*, **54**, 56-64, <https://doi.org/10.1134/S0001433818010073>
- Keppeler, L., S. Cravatte, A. Chaigneau, C. Pegliasco, L. Gourdeau, and A. Singh, 2018: Observed Characteristics and Vertical Structure of Mesoscale Eddies in the Southwest Tropical Pacific. *Journal of Geophysical Research: Oceans*, **123**, 2731-2756, <https://doi.org/10.1002/2017JC013712>
- Kerry, C., M. Roughan, and B. Powell, 2018: Observation Impact in a Regional Reanalysis of the East Australian Current System. *Journal of Geophysical Research: Oceans*, **123**, 7511-7528, <https://doi.org/10.1029/2017JC013685>
- Kim, H., Y. B. Son, and Y.-H. Jo, 2018: Hourly Observed Internal Waves by Geostationary Ocean Color Imagery in the East/Japan Sea. *Journal of Atmospheric and Oceanic Technology*, **35**, 609-617, <https://doi.org/10.1175/JTECH-D-17-0049.1>
- King, R. R., J. While, M. J. Martin, D. J. Lea, B. Lemieux-Dudon, J. Waters, and E. O'Dea, 2018: Improving the initialisation of the Met Office operational shelf-seas model. *Ocean Modelling*, **130**, 1-14, <https://doi.org/10.1016/j.ocemod.2018.07.004>
- Kobayashi, T., 2018: Rapid volume reduction in Antarctic Bottom Water off the Adélie/George V Land coast observed by deep floats. *Deep Sea Research Part I: Oceanographic Research Papers*, **140**, 95-117, <https://doi.org/10.1016/j.dsr.2018.07.014>
- Köhler, J., N. Serra, F. O. Bryan, B. K. Johnson, and D. Stammer, 2018: Mechanisms of Mixed-Layer Salinity Seasonal Variability in the Indian Ocean. *Journal of Geophysical Research: Oceans*, **123**, 466-496, <https://doi.org/10.1002/2017JC013640>
- Kolodziejczyk, N., P. Testor, A. Lazar, V. Echevin, G. Krahnemann, A. Chaigneau, C. Gourcuff, M. Wade, S. Faye, P. Estrade, X. Capet, L. Mortier, P. Brehmer, F. Schütte, and J. Karstensen, 2018: Subsurface Fine-Scale Patterns in an Anticyclonic Eddy Off Cap-Vert Peninsula Observed From Glider Measurements. *Journal of Geophysical Research: Oceans*, **123**, 6312-6329, <https://doi.org/10.1029/2018JC014135>

- Kouketsu, S., 2018: Spatial Distribution of Diffusivity Coefficients and the Effects on Water Mass Modification in the North Pacific. *Journal of Geophysical Research: Oceans*, **123**, 4373-4387, <https://doi.org/10.1029/2018JC013860>
- Koul, V., A. Parekh, G. Srinivas, R. Kakatkar, J. S. Chowdary, and C. Gnanaseelan, 2018: Role of Ocean Initial Conditions to Diminish Dry Bias in the Seasonal Prediction of Indian Summer Monsoon Rainfall: A Case Study Using Climate Forecast System. *Journal of Advances in Modeling Earth Systems*, **10**, 603-616, <https://doi.org/10.1002/2017MS001129>
- Kubryakov, A. A., A. V. Bagaev, S. V. Stanichny, and V. N. Belokopytov, 2018: Thermohaline structure, transport and evolution of the Black Sea eddies from hydrological and satellite data. *Progress in Oceanography*, **167**, 44-63, <https://doi.org/10.1016/j.pocean.2018.07.007>
- Kuntz, L. B. and D. P. Schrag, 2018: Hemispheric Asymmetry in the Ventilated Thermocline of the Tropical Pacific. *Journal of Climate*, **31**, 1281-1288, <https://doi.org/10.1175/JCLI-D-17-0686.1>
- Laloyaux, P., E. de Boisseson, M. Balmaseda, J.-R. Bidlot, S. Broennimann, R. Buizza, P. Dalhgren, D. Dee, L. Haimberger, H. Hersbach, Y. Kosaka, M. Martin, P. Poli, N. Rayner, E. Rustemeier, and D. Schepers, 2018: CERA-20C: A Coupled Reanalysis of the Twentieth Century. *Journal of Advances in Modeling Earth Systems*, **10**, 1172-1195, <https://doi.org/10.1029/2018MS001273>
- Lange, P. K., R. J. W. Brewin, G. Dall'Olmo, G. A. Tarran, S. Sathyendranath, M. Zubkov, and H. A. Bouman, 2018: Scratching Beneath the Surface: A Model to Predict the Vertical Distribution of Prochlorococcus Using Remote Sensing. *Remote Sensing*, **10**, 847, <https://doi.org/10.3390/rs10060847>
- Lauvset, S. K., A. Brakstad, K. Våge, A. Olsen, E. Jeansson, and K. A. Mork, 2018: Continued warming, salinification and oxygenation of the Greenland Sea gyre. *Tellus A: Dynamic Meteorology and Oceanography*, **70**, 1-9, <https://doi.org/10.1080/16000870.2018.1476434>
- Le Vine, D., E. Dinnat, T. Meissner, F. Wentz, H.-Y. Kao, G. Lagerloef, and T. Lee, 2018: Status of Aquarius and Salinity Continuity. *Remote Sensing*, **10**, 1585, <https://doi.org/10.3390/rs10101585>
- Lebedev, K. V., 2018: Modeling Study of the Antarctic Circumpolar Current Variability Based on Argo Data. *The Ocean in Motion: Circulation, Waves, Polar Oceanography*, M. G. Velarde, R. Y. Tarakanov, and A. V. Marchenko, Eds., Springer International Publishing, 487-493, https://doi.org/10.1007/978-3-319-71934-4_30
- Lellouche, J. M., E. Greiner, O. Le Galloudec, G. Garric, C. Regnier, M. Drevillon, M. Benkiran, C. E. Testut, R. Bourdalle-Badie, F. Gasparin, O. Hernandez, B. Levier, Y. Drillet, E. Remy, and P. Y. Le Traon, 2018: Recent updates to the Copernicus Marine Service global ocean monitoring and forecasting real-time 1/12° high-resolution system. *Ocean Sci.*, **14**, 1093-1126, <https://doi.org/10.5194/os-14-1093-2018>
- Lewis, N. and J. Curry, 2018: The Impact of Recent Forcing and Ocean Heat Uptake Data on Estimates of Climate Sensitivity. *Journal of Climate*, **31**, 6051-6071, <https://doi.org/10.1175/JCLI-D-17-0667.1>
- Leymarie, E., C. Penkerch, V. Vellucci, C. Lerebourg, D. Antoine, E. Boss, M. R. Lewis, F.

- D'Ortenzio, and H. Claustre, 2018: ProVal: A New Autonomous Profiling Float for High Quality Radiometric Measurements. *Frontiers in Marine Science*, **5**, <https://doi.org/10.3389/fmars.2018.00437>
- Li, B., D. Yuan, and H. Zhou, 2018: Water masses in the far western equatorial Pacific during the winters of 2010 and 2012. *Journal of Oceanology and Limnology*, **36**, 1459-1474, <https://doi.org/10.1007/s00343-018-6068-2>
- Li, D., M. Zhou, Z. Zhang, Y. Zhong, Y. Zhu, C. Yang, M. Xu, D. Xu, and Z. Hu, 2018: Intrusions of Kuroshio and Shelf Waters on Northern Slope of South China Sea in Summer 2015. *Journal of Ocean University of China*, **17**, 477-486, <https://doi.org/10.1007/s11802-018-3384-2>
- Li, F. and M. S. Lozier, 2018: On the Linkage between Labrador Sea Water Volume and Overturning Circulation in the Labrador Sea: A Case Study on Proxies. *Journal of Climate*, **31**, 5225-5241, <https://doi.org/10.1175/JCLI-D-17-0692.1>
- Li, J., C. Liang, Y. Tang, X. Liu, T. Lian, Z. Shen, and X. Li, 2018: Impacts of the IOD-associated temperature and salinity anomalies on the intermittent equatorial undercurrent anomalies. *Climate Dynamics*, **51**, 1391-1409, <https://doi.org/10.1007/s00382-017-3961-x>
- Li, L., R. W. Schmitt, and C. C. Ummenhofer, 2018: The role of the subtropical North Atlantic water cycle in recent US extreme precipitation events. *Climate Dynamics*, **50**, 1291-1305, <https://doi.org/10.1007/s00382-017-3685-y>
- Li, Q., S. Lee, and M. Mazloff, 2018: Evidence of Jet-Scale Overturning Ocean Circulations in Argo Float Trajectories. *Geophysical Research Letters*, **45**, 11,866-11,874, <https://doi.org/10.1029/2018GL078950>
- Li, Y., W. Han, A. Hu, G. A. Meehl, and F. Wang, 2018: Multidecadal Changes of the Upper Indian Ocean Heat Content during 1965–2016. *Journal of Climate*, **31**, 7863-7884, <https://doi.org/10.1175/JCLI-D-18-0116.1>
- Li, Y., W. Han, W. Wang, L. Zhang, and M. Ravichandran, 2018: The Indian Summer Monsoon Intraseasonal Oscillations in CFSv2 Forecasts: Biases and Importance of Improving Air–Sea Interaction Processes. *Journal of Climate*, **31**, 5351-5370, <https://doi.org/10.1175/JCLI-D-17-0623.1>
- Li, Y., H. Liu, and P. Lin, 2018: Interannual and decadal variability of the North Equatorial Undercurrents in an eddy-resolving ocean model. *Scientific Reports*, **8**, 17112, <https://doi.org/10.1038/s41598-018-35469-2>
- Liang, Y.-C., M. R. Mazloff, I. Rosso, S.-W. Fang, and J.-Y. Yu, 2018: A Multivariate Empirical Orthogonal Function Method to Construct Nitrate Maps in the Southern Ocean. *Journal of Atmospheric and Oceanic Technology*, **35**, 1505-1519, <https://doi.org/10.1175/JTECH-D-18-0018.1>
- Liang, Z., Q. Xie, L. Zeng, and D. Wang, 2018: Role of wind forcing and eddy activity in the intraseasonal variability of the barrier layer in the South China Sea. *Ocean Dynamics*, **68**, 363-375, <https://doi.org/10.1007/s10236-018-1137-9>
- Liu, D., J. Zhu, Y. Shu, D. Wang, W. Wang, C. Yan, and W. Zhou, 2018: Targeted observation analysis of a Northwestern Tropical Pacific Ocean mooring array using an ensemble-based method. *Ocean Dynamics*, **68**, 1109-1119, <https://doi.org/10.1007/s10236-018-1188-y>

- Liu, F. and S. Tang, 2018: Influence of the Interaction Between Typhoons and Oceanic Mesoscale Eddies on Phytoplankton Blooms. *Journal of Geophysical Research: Oceans*, **123**, 2785-2794, <https://doi.org/10.1029/2017JC013225>
- Liu, J., T. Zhang, G. Han, and Y. Gou, 2018: TD-LSTM: Temporal Dependence-Based LSTM Networks for Marine Temperature Prediction. *Sensors*, **18**, 3797, <https://doi.org/10.3390/s18113797>
- Liu, L., R. X. Huang, and F. Wang, 2018: Ventilation of a Monsoon-Dominated Ocean: Subduction and Obduction in the North Indian Ocean. *Journal of Geophysical Research: Oceans*, **123**, 4449-4463, <https://doi.org/10.1029/2017JC013719>
- Liu, T., R. W. Schmitt, and L. Li, 2018: Global Search for Autumn-Lead Sea Surface Salinity Predictors of Winter Precipitation in Southwestern United States. *Geophysical Research Letters*, **45**, 8445-8454, <https://doi.org/10.1029/2018GL079293>
- Liu, Y., K. Li, C. Ning, Y. Yang, H. Wang, J. Liu, S. Skhokiattiwong, and W. Yu, 2018: Observed Seasonal Variations of the Upper Ocean Structure and Air-Sea Interactions in the Andaman Sea. *Journal of Geophysical Research: Oceans*, **123**, 922-938, <https://doi.org/10.1002/2017JC013367>
- Liu, Y., W. Wang, and A. Kumar, 2018: Multiweek Prediction Skill Assessment of Arctic Sea Ice Variability in the CFSv2. *Weather and Forecasting*, **33**, 1453-1476, <https://doi.org/10.1175/WAF-D-18-0046.1>
- Llanillo, P. J., J. L. Pelegrí, L. D. Talley, J. Peña-Izquierdo, and R. R. Cordero, 2018: Oxygen Pathways and Budget for the Eastern South Pacific Oxygen Minimum Zone. *Journal of Geophysical Research: Oceans*, **123**, 1722-1744, <https://doi.org/10.1002/2017JC013509>
- Llort, J., C. Langlais, R. Matear, S. Moreau, A. Lenton, and P. G. Strutton, 2018: Evaluating Southern Ocean Carbon Eddy-Pump From Biogeochemical-Argo Floats. *Journal of Geophysical Research: Oceans*, **123**, 971-984, <https://doi.org/10.1002/2017JC012861>
- Loeb, N. G., D. R. Doelling, H. Wang, W. Su, C. Nguyen, J. G. Corbett, L. Liang, C. Mitrescu, F. G. Rose, and S. Kato, 2018: Clouds and the Earth's Radiant Energy System (CERES) Energy Balanced and Filled (EBAF) Top-of-Atmosphere (TOA) Edition-4.0 Data Product. *Journal of Climate*, **31**, 895-918, <https://doi.org/10.1175/JCLI-D-17-0208.1>
- Lotliker, A. A., S. K. Baliarsingh, V. L. Trainer, M. L. Wells, C. Wilson, T. V. S. Udaya Bhaskar, A. Samanta, and S. R. Shahimol, 2018: Characterization of oceanic Noctiluca blooms not associated with hypoxia in the Northeastern Arabian Sea. *Harmful Algae*, **74**, 46-57, <https://doi.org/10.1016/j.hal.2018.03.008>
- Lund, D. C., E. I. Seeley, P. D. Asimow, M. J. Lewis, S. E. McCart, and A. A. Mudahy, 2018: Anomalous Pacific-Antarctic Ridge Volcanism Precedes Glacial Termination 2. *Geochemistry, Geophysics, Geosystems*, **19**, 2478-2491, <https://doi.org/10.1029/2017GC007341>
- Mackay, N., C. Wilson, J. Zika, and N. P. Holliday, 2018: A Regional Thermohaline Inverse Method for Estimating Circulation and Mixing in the Arctic and Subpolar North Atlantic. *Journal of Atmospheric and Oceanic Technology*, **35**, 2383-2403, <https://doi.org/10.1175/JTECH-D-17-0198.1>
- Maher, N., M. H. England, A. S. Gupta, and P. Spence, 2018: Role of Pacific trade winds in driving ocean temperatures during the recent slowdown and projections under a

- wind trend reversal. *Climate Dynamics*, **51**, 321-336,
<https://doi.org/10.1007/s00382-017-3923-3>
- Majumder, S. and C. Schmid, 2018: A study of the variability in the Benguela Current volume transport. *Ocean Sci.*, **14**, 273-283, <https://doi.org/10.5194/os-14-273-2018>
- Mandal, S., S. Sil, A. Shee, and R. Venkatesan, 2018: Upper Ocean and Subsurface Variability in the Bay of Bengal During Cyclone ROANU: A Synergistic View Using In Situ and Satellite Observations. *Pure and Applied Geophysics*, **175**, 4605-4624,
<https://doi.org/10.1007/s00024-018-1932-8>
- Marini, S., L. Corgnati, C. Mantovani, M. Bastianini, E. Ottaviani, E. Fanelli, J. Aguzzi, A. Griffa, and P.-M. Poulain, 2018: Automated estimate of fish abundance through the autonomous imaging device GUARD1. *Measurement*, **126**, 72-75,
<https://doi.org/10.1016/j.measurement.2018.05.035>
- Marsh, R., G. Bigg, Y. Zhao, M. J. Martin, J. R. Blundell, S. A. Josey, E. Hanna, and V. Ivchenko, 2018: Prospects for seasonal forecasting of iceberg distributions in the North Atlantic. *Natural Hazards*, **91**, 447-471, <https://doi.org/10.1007/s11069-017-3136-4>
- Martínez-García, S., R. R. Bidigare, D. A. del Valle, L. W. Juranek, D. P. Nicholson, D. A. Viviani, S. T. Wilson, and M. J. Church, 2018: Control of net community production by microbial community respiration at Station ALOHA. *Journal of Marine Systems*, **184**, 28-35, <https://doi.org/10.1016/j.jmarsys.2018.03.007>
- Masich, J., M. R. Mazloff, and T. K. Chereskin, 2018: Interfacial Form Stress in the Southern Ocean State Estimate. *Journal of Geophysical Research: Oceans*, **123**, 3368-3385,
<https://doi.org/10.1029/2018JC013844>
- Masuda, S., S. Osafune, and T. Hemmi, 2018: Deep-float salinity data synthesis for deep ocean state estimation: method and impact. *Progress in Earth and Planetary Science*, **5**, 89, <https://doi.org/10.1186/s40645-018-0247-9>
- Mauch, M., S. M. Durski, and A. L. Kurapov, 2018: Connectivity of the Aleutian North Slope Current and Bering Sea Basin Waters at the Level of the Subsurface Temperature Maximum: A Modeling Study. *Journal of Geophysical Research: Oceans*, **123**, 8608-8623, <https://doi.org/10.1029/2018JC014097>
- Mayer, M., M. A. Balmaseda, and L. Haimberger, 2018: Unprecedented 2015/2016 Indo-Pacific Heat Transfer Speeds Up Tropical Pacific Heat Recharge. *Geophysical Research Letters*, **45**, 3274-3284, <https://doi.org/10.1002/2018GL077106>
- Mayot, N., P. Matrai, I. H. Ellingsen, M. Steele, K. Johnson, S. C. Riser, and D. Swift, 2018: Assessing Phytoplankton Activities in the Seasonal Ice Zone of the Greenland Sea Over an Annual Cycle. *Journal of Geophysical Research: Oceans*, **123**, 8004-8025,
<https://doi.org/10.1029/2018JC014271>
- Mazloff, M. R., B. D. Cornuelle, S. T. Gille, and A. Verdy, 2018: Correlation Lengths for Estimating the Large-Scale Carbon and Heat Content of the Southern Ocean. *Journal of Geophysical Research: Oceans*, **123**, 883-901,
<https://doi.org/10.1002/2017JC013408>
- McMonigal, K., L. M. Beal, and J. K. Willis, 2018: The Seasonal Cycle of the South Indian Ocean Subtropical Gyre Circulation as Revealed by Argo and Satellite Data. *Geophysical Research Letters*, **45**, 9034-9041,
<https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2018GL078420>

- Meissner, T., F. J. Wentz, and D. M. Le Vine, 2018: The Salinity Retrieval Algorithms for the NASA Aquarius Version 5 and SMAP Version 3 Releases. *Remote Sensing*, **10**, 1121, <https://doi.org/10.3390/rs10071121>
- Menary, M. B. and L. Hermanson, 2018: Limits on determining the skill of North Atlantic Ocean decadal predictions. *Nature Communications*, **9**, 1694, <https://doi.org/10.1038/s41467-018-04043-9>
- Merrifield, S., M. Otero, and E. Terrill, 2018: Observations of Shelf Exchange and High-Frequency Variability in an Alaskan Fjord. *Journal of Geophysical Research: Oceans*, **123**, 4720-4734, <https://doi.org/10.1029/2018JC013931>
- Meunier, T., E. Pallás-Sanz, M. Tenreiro, E. Portela, J. Ochoa, A. Ruiz-Angulo, and S. Cusí, 2018: The Vertical Structure of a Loop Current Eddy. *Journal of Geophysical Research: Oceans*, **123**, 6070-6090, <https://doi.org/10.1029/2018JC013801>
- Mignac, D., D. Ferreira, and K. Haines, 2018: South Atlantic meridional transports from NEMO-based simulations and reanalyses. *Ocean Sci.*, **14**, 53-68, <https://doi.org/10.5194/os-14-53-2018>, 2018
- Mignot, A., R. Ferrari, and H. Claustre, 2018: Floats with bio-optical sensors reveal what processes trigger the North Atlantic bloom. *Nature Communications*, **9**, 190, <https://doi.org/10.1038/s41467-017-02143-6>
- Miloslavich, P., S. Seeyave, F. Muller-Karger, N. Bax, E. Ali, C. Delgado, H. Evers-King, B. Loveday, V. Lutz, J. Newton, G. Nolan, A. C. Peralta Brichtova, C. Traeger-Chatterjee, and E. Urban, 2018: Challenges for global ocean observation: the need for increased human capacity. *Journal of Operational Oceanography*, 1-20, <https://doi.org/10.1080/1755876X.2018.1526463>
- Misra, T., R. Sharma, R. Kumar, and P. K. Pal, 2018: Ocean Remote Sensing: Concept to Realization for Physical Oceanographic Studies. *Observing the Oceans in Real Time*, R. Venkatesan, A. Tandon, E. D'Asaro, and M. A. Atmanand, Eds., Springer International Publishing, 165-202, https://doi.org/10.1007/978-3-319-66493-4_9.
- Mohamed, K. S., K. K. Sajikumar, N. Ragesh, T. V. Ambrose, J. Jayasankar, K. P. Said Koya, and G. Sasikumar, 2018: Relating abundance of purpleback flying squid *Sthenoteuthis oualaniensis* (Cephalopoda: Ommastrephidae) to environmental parameters using GIS and GAM in south-eastern Arabian Sea. *Journal of Natural History*, **52**, 1869-1882, <https://doi.org/10.1080/00222933.2018.1497721>
- Murphy, D. and C. Janzen, 2018: Advances in In-Situ Ocean Measurements. *Observing the Oceans in Real Time*, R. Venkatesan, A. Tandon, E. D'Asaro, and M. A. Atmanand, Eds., Springer International Publishing, 141-162, https://doi.org/10.1007/978-3-319-66493-4_8.
- Nagura, M., 2018: Annual Rossby Waves Below the Pycnocline in the Indian Ocean. *Journal of Geophysical Research: Oceans*, **123**, 9405-9415, <https://doi.org/10.1029/2018JC014362>
- Nagura, M. and S. Kouketsu, 2018: Spiciness Anomalies in the Upper South Indian Ocean. *Journal of Physical Oceanography*, **48**, 2081-2101, <https://doi.org/10.1175/JPO-D-18-0050.1>
- Nagura, M. and M. J. McPhaden, 2018: The Shallow Overturning Circulation in the Indian Ocean. *Journal of Physical Oceanography*, **48**, 413-434,

<https://doi.org/10.1175/JPO-D-17-0127.1>

- Nakano, H., H. Tsujino, K. Sakamoto, S. Urakawa, T. Toyoda, and G. Yamanaka, 2018: Identification of the fronts from the Kuroshio Extension to the Subarctic Current using absolute dynamic topographies in satellite altimetry products. *Journal of Oceanography*, **74**, 393-420, <https://doi.org/10.1007/s10872-018-0470-4>
- Nardelli, B. B., S. Mulet, and D. Iudicone, 2018: Three-Dimensional Ageostrophic Motion and Water Mass Subduction in the Southern Ocean. *Journal of Geophysical Research: Oceans*, **123**, 1533-1562, <https://doi.org/10.1002/2017JC013316>
- Nencioli, F., G. Dall'Olmo, and G. D. Quartly, 2018: Agulhas Ring Transport Efficiency From Combined Satellite Altimetry and Argo Profiles. *Journal of Geophysical Research: Oceans*, **123**, 5874-5888, <https://doi.org/10.1029/2018JC013909>
- Nielsen-Englyst, P., J. L. Høyer, L. Toudal Pedersen, C. L. Gentemann, E. Alerskans, T. Block, and C. Donlon, 2018: Optimal Estimation of Sea Surface Temperature from AMSR-E. *Remote Sensing*, **10**, 229, <http://dx.doi.org/10.3390/rs10020229>
- Nogueira Neto, A. V., H. Giordani, G. Caniaux, and M. Araujo, 2018: Seasonal and Interannual Mixed-Layer Heat Budget Variability in the Western Tropical Atlantic From Argo Floats (2007–2012). *Journal of Geophysical Research: Oceans*, **123**, 5298-5322, <https://doi.org/10.1029/2017JC013436>
- Ogle, S. E., V. Tamsitt, S. A. Josey, S. T. Gille, I. Cerovečki, L. D. Talley, and R. A. Weller, 2018: Episodic Southern Ocean Heat Loss and Its Mixed Layer Impacts Revealed by the Farthest South Multiyear Surface Flux Mooring. *Geophysical Research Letters*, **45**, 5002-5010, <https://doi.org/10.1029/2017GL076909>
- Oka, E., M. Ishii, T. Nakano, T. Suga, S. Kouketsu, M. Miyamoto, H. Nakano, B. Qiu, S. Sugimoto, and Y. Takatani, 2018: Fifty years of the 137°E repeat hydrographic section in the western North Pacific Ocean. *Journal of Oceanography*, <https://doi.org/10.1007/s10872-017-0461-x>
- Oke, P. R., D. A. Griffin, T. Rykova, and H. B. de Oliveira, 2018: Ocean circulation in the Great Australian Bight in an eddy-resolving ocean reanalysis: The eddy field, seasonal and interannual variability. *Deep Sea Research Part II: Topical Studies in Oceanography*, **157-158**, 11-26, <https://doi.org/10.1016/j.dsr2.2018.09.012>
- Olmedo, E., C. Gabarró, V. González-Gambau, J. Martínez, J. Ballabrera-Poy, A. Turiel, M. Portabella, S. Fournier, and T. Lee, 2018: Seven Years of SMOS Sea Surface Salinity at High Latitudes: Variability in Arctic and Sub-Arctic Regions. *Remote Sensing*, **10**, 1772, <https://dx.doi.org/10.3390/rs10111772>
- Olmedo, E., I. Taupier-Letage, A. Turiel, and A. Alvera-Azcárate, 2018: Improving SMOS Sea Surface Salinity in the Western Mediterranean Sea through Multivariate and Multifractal Analysis. *Remote Sensing*, **10**, 485, <https://doi.org/10.3390/rs10030485>
- Oltmanns, M., J. Karstensen, and J. Fischer, 2018: Increased risk of a shutdown of ocean convection posed by warm North Atlantic summers. *Nature Climate Change*, **8**, 300-304, <https://doi.org/10.1038/s41558-018-0105-1>
- Ospina-Alvarez, A., N. Weidberg, C. M. Aiken, and S. A. Navarrete, 2018: Larval transport in the upwelling ecosystem of central Chile: The effects of vertical migration, developmental time and coastal topography on recruitment. *Progress in Oceanography*, **168**, 82-99, <https://doi.org/10.1016/j.pocean.2018.09.016>

- Oyinlola, M. A., G. Reygondeau, C. C. C. Wabnitz, M. Troell, and W. W. L. Cheung, 2018: Global estimation of areas with suitable environmental conditions for mariculture species. *PLOS ONE*, **13**, e0191086, <https://doi.org/10.1371/journal.pone.0191086>
- Pan, L., Y. Zhong, H. Liu, L. Zhou, Z. Zhang, and M. Zhou, 2018: Seasonal Variation of Barrier Layer in the Southern Ocean. *Journal of Geophysical Research: Oceans*, **123**, 2238-2253, <https://doi.org/10.1002/2017JC013382>
- Panassa, E., C. Völker, D. Wolf-Gladrow, and J. Hauck, 2018: Drivers of Interannual Variability of Summer Mixed Layer Depth in the Southern Ocean Between 2002 and 2011. *Journal of Geophysical Research: Oceans*, **123**, 5077-5090, <https://doi.org/10.1029/2018JC013901>
- Panteleev, G. G., M. Yaremchuk, V. Luchin, and O. Francis, 2018: The Bering Sea Regional Data Assimilation System: From Climate Variability to Short Term Hindcasting. *The Ocean in Motion: Circulation, Waves, Polar Oceanography*, M. G. Velarde, R. Y. Tarakanov, and A. V. Marchenko, Eds., Springer International Publishing, 501-517, https://doi.org/10.1007/978-3-319-71934-4_32.
- Paris, M. L., B. Subrahmanyam, C. B. Trott, and V. S. N. Murty, 2018: Influence of ENSO Events on the Agulhas Leakage Region. *Remote Sensing in Earth Systems Sciences*, **1**, 79-88, <https://doi.org/10.1007/s41976-018-0007-z>
- Park, J. and B. Lim, 2018: A new perspective on origin of the East Sea Intermediate Water: Observations of Argo floats. *Progress in Oceanography*, **160**, 213-224, <https://doi.org/10.1016/j.pocean.2017.10.015>
- Park, J. Y., C. A. Stock, X. Yang, J. P. Dunne, A. Rosati, J. John, and S. Zhang, 2018: Modeling Global Ocean Biogeochemistry With Physical Data Assimilation: A Pragmatic Solution to the Equatorial Instability. *Journal of Advances in Modeling Earth Systems*, **10**, 891-906, <https://doi.org/10.1002/2017MS001223>
- Pattabhi Rama Rao, E., T. V. S. Bhaskar, R. V. Seshu, N. S. Rao, K. Suprit, and G. Geetha, 2018: Marine Data Services at National Oceanographic Data Centre-India. *Data Science Journal*, **17**, 11, <http://doi.org/10.5334/dsj-2018-011>
- Pauthenet, E., F. Roquet, G. Madec, C. Guinet, M. Hindell, C. R. McMahon, R. Harcourt, and D. Nerini, 2018: Seasonal Meandering of the Polar Front Upstream of the Kerguelen Plateau. *Geophysical Research Letters*, **45**, 9774-9781, <https://doi.org/10.1029/2018GL079614>
- Pellichero, V., J.-B. Sallée, C. C. Chapman, and S. M. Downes, 2018: The southern ocean meridional overturning in the sea-ice sector is driven by freshwater fluxes. *Nature Communications*, **9**, 1789, <https://doi.org/10.1038/s41467-018-04101-2>
- Petihakis, G., L. Perivoliotis, G. Korres, D. Ballas, C. Frangoulis, P. Pagonis, M. Ntoumas, M. Pettas, A. Chalkiopoulos, M. Sotiropoulou, M. Bekiari, A. Kalampokis, M. Ravdas, E. Bourma, S. Christodoulaki, A. Zacharioudaki, D. Kassis, E. Potiris, G. Triantafyllou, K. Tsiaras, E. Krasakopoulou, S. Velanas, and N. Zisis, 2018: An integrated open-coastal biogeochemistry, ecosystem and biodiversity observatory of the eastern Mediterranean – the Cretan Sea component of the POSEIDON system. *Ocean Sci.*, **14**, 1223-1245, <https://doi.org/10.5194/os-14-1223-2018>
- Pfeffer, J., P. Tregoning, A. Purcell, and M. Sambridge, 2018: Multitechnique Assessment of the Interannual to Multidecadal Variability in Steric Sea Levels: A Comparative

- Analysis of Climate Mode Fingerprints. *Journal of Climate*, **31**, 7583-7597, <https://doi.org/10.1175/JCLI-D-17-0679.1>
- Pilo, G. S., P. R. Oke, R. Coleman, T. Rykova, and K. Ridgway, 2018: Impact of data assimilation on vertical velocities in an eddy resolving ocean model. *Ocean Modelling*, **131**, 71-85, <https://doi.org/10.1016/j.ocemod.2018.09.003>
- Piola, A. R., E. D. Palma, A. A. Bianchi, B. M. Castro, M. Dottori, R. A. Guerrero, M. Marrari, R. P. Matano, O. O. Möller, and M. Saraceno, 2018: Physical Oceanography of the SW Atlantic Shelf: A Review. *Plankton Ecology of the Southwestern Atlantic: From the Subtropical to the Subantarctic Realm*, M. S. Hoffmeyer, M. E. Sabatini, F. P. Brandini, D. L. Calliari, and N. H. Santinelli, Eds., Springer International Publishing, 37-56, https://doi.org/10.1007/978-3-319-77869-3_2.
- Planton, Y., A. Voldoire, H. Giordani, and G. Caniaux, 2018: Main processes of the Atlantic cold tongue interannual variability. *Climate Dynamics*, **50**, 1495-1512, <https://doi.org/10.1007/s00382-017-3701-2>
- Ponte, R. M. and C. G. Piecuch, 2018: Mechanisms Controlling Global Mean Sea Surface Temperature Determined From a State Estimate. *Geophysical Research Letters*, **45**, 3221-3227, <https://doi.org/10.1002/2017GL076821>
- Ponte, R. M., K. J. Quinn, and C. G. Piecuch, 2018: Accounting for Gravitational Attraction and Loading Effects from Land Ice on Absolute Sea Level. *Journal of Atmospheric and Oceanic Technology*, **35**, 405-410, <https://doi.org/10.1175/JTECH-D-17-0092.1>
- Portela, E., M. Tenreiro, E. Pallàs-Sanz, T. Meunier, A. Ruiz-Angulo, R. Sosa-Gutiérrez, and S. Cusí, 2018: Hydrography of the Central and Western Gulf of Mexico. *Journal of Geophysical Research: Oceans*, **123**, 5134-5149, <https://doi.org/10.1029/2018JC013813>
- Prants, S. V., M. V. Budyansky, and M. Y. Uleysky, 2018: How Eddies Gain, Retain, and Release Water: A Case Study of a Hokkaido Anticyclone. *Journal of Geophysical Research: Oceans*, **123**, 2081-2096, <https://doi.org/10.1002/2017JC013610>
- Prants, S. V., M. Y. Uleysky, and M. V. Budyansky, 2018: Lagrangian study of transport of subarctic water across the Subpolar Front in the Japan Sea. *Ocean Dynamics*, **68**, 701-712, <https://doi.org/10.1007/s10236-018-1155-7>
- Pujiana, K., J. N. Moum, and W. D. Smyth, 2018: The Role of Turbulence in Redistributing Upper-Ocean Heat, Freshwater, and Momentum in Response to the MJO in the Equatorial Indian Ocean. *Journal of Physical Oceanography*, **48**, 197-220, <https://doi.org/10.1175/JPO-D-17-0146.1>
- Pun, I.-F., I.-I. Lin, C.-C. Lien, and C.-C. Wu, 2018: Influence of the Size of Supertyphoon Megi (2010) on SST Cooling. *Monthly Weather Review*, **146**, 661-677, <https://doi.org/10.1175/MWR-D-17-0044.1>
- Purich, A., M. H. England, W. Cai, A. Sullivan, and P. J. Durack, 2018: Impacts of Broad-Scale Surface Freshening of the Southern Ocean in a Coupled Climate Model. *Journal of Climate*, **31**, 2613-2632, <https://doi.org/10.1175/JCLI-D-17-0092.1>
- Qin, H., C. Wang, Y. Jiang, Z. Deng, and W. Zhang, 2018: Trend prediction of the 3D thermocline's lateral boundary based on the SVR method. *EURASIP Journal on Wireless Communications and Networking*, **2018**, 252, <https://doi.org/10.1186/s13638-018-1271-6>

- Raapoto, H., E. Martinez, A. Petrenko, A. M. Doglioli, and C. Maes, 2018: Modeling the Wake of the Marquesas Archipelago. *Journal of Geophysical Research: Oceans*, **123**, 1213-1228, <https://doi.org/10.1002/2017JC013285>
- Raj, R. P., J. E. Ø. Nilsen, J. A. Johannessen, T. Furevik, O. B. Andersen, and L. Bertino, 2018: Quantifying Atlantic Water transport to the Nordic Seas by remote sensing. *Remote Sensing of Environment*, **216**, 758-769, <https://doi.org/10.1016/j.rse.2018.04.055>
- Ramanantsoa, J. D., P. Penven, M. Krug, J. Gula, and M. Rouault, 2018: Uncovering a New Current: The Southwest Madagascar Coastal Current. *Geophysical Research Letters*, **45**, 1930-1938, <https://doi.org/10.1002/2017GL075900>
- Ravichandran, M. and M. S. Girishkumar, 2018: Applications of Ocean In-situ Observations and Its Societal Relevance. *Observing the Oceans in Real Time*, R. Venkatesan, A. Tandon, E. D'Asaro, and M. A. Atmanand, Eds., Springer International Publishing, 303-313, https://doi.org/10.1007/978-3-319-66493-4_15.
- Reagan, J., D. Seidov, and T. Boyer, 2018: Water Vapor Transfer and Near-Surface Salinity Contrasts in the North Atlantic Ocean. *Scientific Reports*, **8**, 8830, <https://doi.org/10.1038/s41598-018-27052-6>
- Reseghetti, F., L. Cheng, M. Borghini, I. M. Yashayaev, G. Raiteri, and J. Zhu, 2018: Assessment of Quality and Reliability of Measurements with XBT Sippican T5 and T5/20. *Journal of Atmospheric and Oceanic Technology*, **35**, 1935-1960, <https://doi.org/10.1175/JTECH-D-18-0043.1>
- Ridgway, K. R., J. A. Benthuisen, and C. Steinberg, 2018: Closing the Gap Between the Coral Sea and the Equator: Direct Observations of the North Australian Western Boundary Currents. *Journal of Geophysical Research: Oceans*, **123**, 9212-9231, <https://doi.org/10.1029/2018JC014269>
- Rintoul, S. R., 2018: The global influence of localized dynamics in the Southern Ocean. *Nature*, **558**, 209-218, <https://doi.org/10.1038/s41586-018-0182-3>
- Riser, S. C., D. Swift, and R. Drucker, 2018: Profiling Floats in SOCCOM: Technical Capabilities for Studying the Southern Ocean. *Journal of Geophysical Research: Oceans*, **123**, 4055-4073, <https://doi.org/10.1002/2017JC013419>
- Roach, C. J., D. Balwada, and K. Speer, 2018: Global Observations of Horizontal Mixing from Argo Float and Surface Drifter Trajectories. *Journal of Geophysical Research: Oceans*, **123**, 4560-4575, <https://doi.org/10.1029/2018JC013750>
- Robson, J., R. T. Sutton, A. Archibald, F. Cooper, M. Christensen, L. J. Gray, N. P. Holliday, C. Macintosh, M. McMillan, B. Moat, M. Russo, R. Tilling, K. Carslaw, D. Desbryères, O. Embury, D. L. Feltham, D. P. Grosvenor, S. Josey, B. King, A. Lewis, G. D. McCarthy, C. Merchant, A. L. New, C. H. O'Reilly, S. M. Osprey, K. Read, A. Scaife, A. Shepherd, B. Sinha, D. Smeed, D. Smith, A. Ridout, T. Woollings, and M. Yang, 2018: Recent multivariate changes in the North Atlantic climate system, with a focus on 2005–2016. *International Journal of Climatology*, **38**, 5050-5076, <https://doi.org/10.1002/joc.5815>
- Rogachev, K. A. and N. V. Shlyk, 2018: The Role of the Aleutian Eddies in the Kamchatka Current Warming. *Russian Meteorology and Hydrology*, **43**, 43-48, <https://doi.org/10.3103/S1068373918010065>
- Rogachev, K. A. and N. V. Shlyk, 2018: Salinity Variations of the Intermediate Oyashio Waters

- and Their Relation with the Lunar Nodal Cycle. *Oceanology*, **58**, 1-7, <https://doi.org/10.1134/S0001437018010113>
- Roiha, P., S.-M. Siiriä, N. Haavisto, P. Alenius, A. Westerlund, and T. Purokoski, 2018: Estimating Currents From Argo Trajectories in the Bothnian Sea, Baltic Sea. *Frontiers in Marine Science*, **5**, <https://doi.org/10.3389/fmars.2018.00308>
- Russell, J. L., I. Kamenkovich, C. Bitz, R. Ferrari, S. T. Gille, P. J. Goodman, R. Hallberg, K. Johnson, K. Khazmutdinova, I. Marinov, M. Mazloff, S. Riser, J. L. Sarmiento, K. Speer, L. D. Talley, and R. Wanninkhof, 2018: Metrics for the Evaluation of the Southern Ocean in Coupled Climate Models and Earth System Models. *Journal of Geophysical Research: Oceans*, **123**, 3120-3143, <https://doi.org/10.1002/2017JC013461>
- Sammartino, M., S. Marullo, R. Santoleri, and M. Scardi, 2018: Modelling the Vertical Distribution of Phytoplankton Biomass in the Mediterranean Sea from Satellite Data: A Neural Network Approach. *Remote Sensing*, **10**, 1666, <https://doi.org/10.3390/rs10101666>
- Sandeep, K. K. and V. Pant, 2018: Evaluation of Interannual Simulations and Indian Ocean Dipole Events During 2000–2014 from a Basin Scale General Circulation Model. *Pure and Applied Geophysics*, **175**, 4579-4603, <https://doi.org/10.1007/s00024-018-1915-9>
- Sandery, P., 2018: Data assimilation cycle length and observation impact in mesoscale ocean forecasting. *Geosci. Model Dev.*, **11**, 4011-4019, <https://doi.org/10.5194/gmd-11-4011-2018>
- Santhanam, H. and T. Natarajan, 2018: Short-term desalination of Pulicat lagoon (Southeast India) due to the 2015 extreme flood event: insights from Land-Ocean Interactions in Coastal Zone (LOICZ) models. *Ecological Processes*, **7**, 10, <https://doi.org/10.1186/s13717-018-0119-7>
- Sarangi, R. K., S. K. Shrinidhi, P. Chauhan, and B. R. Raghavan, 2018: Remote sensing and in situ platform based study on impact of Bay of Bengal cyclones (Phailin, Helen, Lehar, and Madi) on ocean chlorophyll and associated physical parameters. *Natural Hazards*, **93**, 413-451, <https://doi.org/10.1007/s11069-018-3307-y>
- Sarma, V. V. S. S. and T. V. S. Udaya Bhaskar, 2018: Ventilation of Oxygen to Oxygen Minimum Zone Due to Anticyclonic Eddies in the Bay of Bengal. *Journal of Geophysical Research: Biogeosciences*, **123**, 2145-2153, <https://doi.org/10.1029/2018JG004447>
- Scannell, H. A. and M. J. McPhaden, 2018: Seasonal Mixed Layer Temperature Balance in the Southeastern Tropical Atlantic. *Journal of Geophysical Research: Oceans*, **123**, 5557-5570, <https://doi.org/10.1029/2018JC014099>
- Schmid, C. and S. Majumder, 2018: Transport variability of the Brazil Current from observations and a data assimilation model. *Ocean Sci.*, **14**, 417-436, <https://doi.org/10.5194/os-14-417-2018>
- Scott, K. A., C. Chen, and P. G. Myers, 2018: Assimilation of Argo Temperature and Salinity Profiles Using a Bias-Aware EnOI Scheme for the Labrador Sea. *Journal of Atmospheric and Oceanic Technology*, **35**, 1819-1834, <https://doi.org/10.1175/JTECH-D-17-0222.1>
- Seelanki, V., P. Sreenivas, and K. V. S. R. Prasad, 2018: Impact of Aquarius Sea-Surface

- Salinity Assimilation in Improving the Ocean Analysis Over Indian Ocean. *Marine Geodesy*, **41**, 144-158, <https://doi.org/10.1080/01490419.2017.1422817>
- Seiki, A., Y. N. Takayabu, T. Hasegawa, and K. Yoneyama, 2018: Lack of Westerly Wind Bursts in Unmaterialized El Niño Years. *Journal of Climate*, **31**, 593-612, <https://doi.org/10.1175/JCLI-D-17-0291.1>
- Sévellec, F., H. A. Dijkstra, S. S. Drijfhout, and A. Germe, 2018: Dynamical attribution of oceanic prediction uncertainty in the North Atlantic: application to the design of optimal monitoring systems. *Climate Dynamics*, **51**, 1517-1535, <https://doi.org/10.1007/s00382-017-3969-2>
- Sherin, V. R., F. Durand, V. V. Gopalkrishna, S. Anuvinda, A. V. S. Chaitanya, R. Bourdallé-Badie, and F. Papa, 2018: Signature of Indian Ocean Dipole on the western boundary current of the Bay of Bengal. *Deep Sea Research Part I: Oceanographic Research Papers*, **136**, 91-106, <https://doi.org/10.1016/j.dsr.2018.04.002>
- Shi, J., X. Yin, Q. Shu, B. Xiao, and F. Qiao, 2018: Evaluation on data assimilation of a global high resolution wave-tide-circulation coupled model using the tropical Pacific TAO buoy observations. *Acta Oceanologica Sinica*, **37**, 8-20, <https://doi.org/10.1007/s13131-018-1196-2>
- Shi, J.-R., S.-P. Xie, and L. D. Talley, 2018: Evolving Relative Importance of the Southern Ocean and North Atlantic in Anthropogenic Ocean Heat Uptake. *Journal of Climate*, **31**, 7459-7479, <https://doi.org/10.1175/JCLI-D-18-0170.1>
- Shroyer, E. L., J. D. Nash, A. F. Waterhouse, and J. N. Moum, 2018: Measuring Ocean Turbulence. *Observing the Oceans in Real Time*, R. Venkatesan, A. Tandon, E. D'Asaro, and M. A. Atmanand, Eds., Springer International Publishing, 99-122, https://doi.org/10.1007/978-3-319-66493-4_6.
- Shulman, I., R. W. Gould, S. Frolov, S. McCarthy, B. Penta, S. Anderson, and P. Sakalaukus, 2018: Bio-Optical Data Assimilation With Observational Error Covariance Derived From an Ensemble of Satellite Images. *Journal of Geophysical Research: Oceans*, **123**, 1801-1813, <https://doi.org/10.1002/2017JC013171>
- Siswanto, E., Y. Xu, and J. Ishizaka, 2018: A Rare Dispersion of Low-Salinity, High-Gelbstoff, High-Primary Production Water in the East China Sea During the Summer of 2010: Possible Influence of the ENSO. *Journal of Geophysical Research: Oceans*, **123**, 2757-2767, <https://doi.org/10.1002/2017JC013319>
- Smith, G. C., J.-M. Bélanger, F. Roy, P. Pellerin, H. Ritchie, K. Onu, M. Roch, A. Zadra, D. S. Colan, B. Winter, J.-S. Fontecilla, and D. Deacu, 2018: Impact of Coupling with an Ice–Ocean Model on Global Medium-Range NWP Forecast Skill. *Monthly Weather Review*, **146**, 1157-1180, <https://doi.org/10.1175/MWR-D-17-0157.1>
- Smith, T. M., P. H. York, B. R. Broitman, M. Thiel, G. C. Hays, E. van Sebille, N. F. Putman, P. I. Macreadie, and C. D. H. Sherman, 2018: Rare long-distance dispersal of a marine angiosperm across the Pacific Ocean. *Global Ecology and Biogeography*, **27**, 487-496, <https://doi.org/10.1111/geb.12713>
- Somot, S., L. Houpert, F. Sevault, P. Testor, A. Bosse, I. Taupier-Letage, M.-N. Bouin, R. Waldman, C. Cassou, E. Sanchez-Gomez, X. Durrieu de Madron, F. Adloff, P. Nabat, and M. Herrmann, 2018: Characterizing, modelling and understanding the climate variability of the deep water formation in the North-Western Mediterranean Sea.

- Climate Dynamics*, **51**, 1179-1210, <https://doi.org/10.1007/s00382-016-3295-0>
- Sree Lekha, J., J. M. Buckley, A. Tandon, and D. Sengupta, 2018: Subseasonal Dispersal of Freshwater in the Northern Bay of Bengal in the 2013 Summer Monsoon Season. *Journal of Geophysical Research: Oceans*, **123**, 6330-6348, <https://doi.org/10.1029/2018JC014181>
- Srinivas, G., J. S. Chowdary, C. Gnanaseelan, K. V. S. R. Prasad, A. Karmakar, and A. Parekh, 2018: Association between mean and interannual equatorial Indian Ocean subsurface temperature bias in a coupled model. *Climate Dynamics*, **50**, 1659-1673, <https://doi.org/10.1007/s00382-017-3713-y>
- Stanev, E. V., P. M. Poulain, S. Grayek, K. S. Johnson, H. Claustre, and J. W. Murray, 2018: Understanding the Dynamics of the Oxic-Anoxic Interface in the Black Sea. *Geophysical Research Letters*, **45**, 864-871, <https://doi.org/10.1002/2017GL076206>
- Steffen, J. and M. Bourassa, 2018: Barrier Layer Development Local to Tropical Cyclones based on Argo Float Observations. *Journal of Physical Oceanography*, **48**, 1951-1968, <https://doi.org/10.1175/JPO-D-17-0262.1>
- Storto, A., P. Oddo, A. Cipollone, I. Mirouze, and B. Lemieux-Dudon, 2018: Extending an oceanographic variational scheme to allow for affordable hybrid and four-dimensional data assimilation. *Ocean Modelling*, **128**, 67-86, <https://doi.org/10.1016/j.ocemod.2018.06.005>
- Strobach, E., A. Molod, G. Forget, J.-M. Campin, C. Hill, D. Menemenlis, and P. Heimbach, 2018: Consequences of different air-sea feedbacks on ocean using MITgcm and MERRA-2 forcing: Implications for coupled data assimilation systems. *Ocean Modelling*, **132**, 91-111, <https://doi.org/10.1016/j.ocemod.2018.10.006>
- Stupnikova, A. N., R. Y. Tarakanov, D. N. Kulagin, and A. L. Vereshchaka, 2018: Factors maintaining the identity of mesoplankton communities: cool evidence from the Drake Passage. *Hydrobiologia*, **809**, 221-232, <https://doi.org/10.1007/s10750-017-3474-y>
- Su, H., L. Huang, W. Li, X. Yang, and X.-H. Yan, 2018: Retrieving Ocean Subsurface Temperature Using a Satellite-Based Geographically Weighted Regression Model. *Journal of Geophysical Research: Oceans*, **123**, 5180-5193, <https://doi.org/10.1029/2018JC014246>
- Su, H., W. Li, and X. H. Yan, 2018: Retrieving Temperature Anomaly in the Global Subsurface and Deeper Ocean From Satellite Observations. *Journal of Geophysical Research: Oceans*, **123**, 399-410, <https://doi.org/10.1002/2017JC013631>
- Sun, Q., B. Wu, T.-J. Zhou, and Z.-X. Yan, 2018: ENSO hindcast skill of the IAP-DecPreS near-term climate prediction system: comparison of full-field and anomaly initialization. *Atmospheric and Oceanic Science Letters*, **11**, 54-62, <https://doi.org/10.1080/16742834.2018.1411753>
- Sun, W., C. Dong, W. Tan, Y. Liu, Y. He, and J. Wang, 2018: Vertical Structure Anomalies of Oceanic Eddies and Eddy-Induced Transports in the South China Sea. *Remote Sensing*, **10**, 795, <https://doi.org/10.3390/rs10050795>
- Sun, W., J. Wang, J. Zhang, Y. Ma, J. Meng, L. Yang, and J. Miao, 2018: A new global gridded sea surface temperature product constructed from infrared and microwave radiometer data using the optimum interpolation method. *Acta Oceanologica Sinica*,

- 37**, 41-49, <https://doi.org/10.1007/s13131-018-1206-4>
- Swart, N. C., S. T. Gille, J. C. Fyfe, and N. P. Gillett, 2018: Recent Southern Ocean warming and freshening driven by greenhouse gas emissions and ozone depletion. *Nature Geoscience*, **11**, 836-841, <https://doi.org/10.1038/s41561-018-0226-1>
- Swart, S., K. Johnson, M. R. Mazloff, A. Meijers, M. P. Meredith, L. Newman, and J. B. Sallee, 2018: Antarctica: Southern Ocean in State of the Climate in 2017. *Bull. Am. Meteorol. Soc.*, **99**, S185 - S188, <https://doi.org/10.1175/2018BAMSStateoftheClimate.1>
- Taillandier, V., T. Wagener, F. D'Ortenzio, N. Mayot, H. Legoff, J. Ras, L. Coppola, O. Pasqueron de Fommervault, C. Schmechtig, E. Diamond, H. Bittig, D. Lefevre, E. Leymarie, A. Poteau, and L. Prieur, 2018: Hydrography and biogeochemistry dedicated to the Mediterranean BGC-Argo network during a cruise with RV Tethys 2 in May 2015. *Earth Syst. Sci. Data*, **10**, 627-641, <https://doi.org/10.5194/essd-10-627-2018>
- Takeshita, Y., K. S. Johnson, T. R. Martz, J. N. Plant, and J. L. Sarmiento, 2018: Assessment of Autonomous pH Measurements for Determining Surface Seawater Partial Pressure of CO₂. *Journal of Geophysical Research: Oceans*, **123**, 4003-4013, <https://doi.org/10.1029/2017JC013387>
- Tamsitt, V., R. P. Abernathey, M. R. Mazloff, J. Wang, and L. D. Talley, 2018: Transformation of Deep Water Masses Along Lagrangian Upwelling Pathways in the Southern Ocean. *Journal of Geophysical Research: Oceans*, **123**, 1994-2017, <https://doi.org/10.1002/2017JC013409>
- Tang, W., S. Yueh, D. Yang, A. Fore, A. Hayashi, T. Lee, S. Fournier, and B. Holt, 2018: The Potential and Challenges of Using Soil Moisture Active Passive (SMAP) Sea Surface Salinity to Monitor Arctic Ocean Freshwater Changes. *Remote Sensing*, **10**, 869, <https://doi.org/10.3390/rs10060869>
- Tchupalanga, P., M. Dengler, P. Brandt, R. Kopte, M. Macuéria, P. Coelho, M. Ostrowski, and N. S. Keenlyside, 2018: Eastern Boundary Circulation and Hydrography Off Angola: Building Angolan Oceanographic Capacities. *Bulletin of the American Meteorological Society*, **99**, 1589-1605, <https://doi.org/10.1175/BAMS-D-17-0197.1>
- Tesdal, J.-E., R. P. Abernathey, J. I. Goes, A. L. Gordon, and T. W. N. Haine, 2018: Salinity Trends within the Upper Layers of the Subpolar North Atlantic. *Journal of Climate*, **31**, 2675-2698, <https://doi.org/10.1175/JCLI-D-17-0532.1>
- Testor, P., A. Bosse, L. Houpert, F. Margirier, L. Mortier, H. Legoff, D. Dausse, M. Labaste, J. Karstensen, D. Hayes, A. Olita, A. Ribotti, K. Schroeder, J. Chiggiato, R. Onken, E. Heslop, B. Mourre, F. D'ortenzio, N. Mayot, H. Lavigne, O. d. Fommervault, L. Coppola, L. Prieur, V. Taillandier, X. D. d. Madron, F. Bourrin, G. Many, P. Damien, C. Estournel, P. Marsaleix, I. Taupier-Letage, P. Raimbault, R. Waldman, M. N. Bouin, H. Giordani, G. Caniaux, S. Somot, V. Ducrocq, and P. Conan, 2018: Multiscale Observations of Deep Convection in the Northwestern Mediterranean Sea During Winter 2012–2013 Using Multiple Platforms. *Journal of Geophysical Research: Oceans*, **123**, 1745-1776, <https://doi.org/10.1002/2016JC012671>
- Thompson, P. R., M. A. Merrifield, E. Leuliette, W. Sweet, D. P. Chambers, B. D. Hamlington, S. Jevrejeva, J. J. Marra, G. T. Mitchum, R. S. Nerem, and M. J. Widlansky, 2018: Global

- Oceans: Sea level variability and change. *Bull. Am. Meteorol. Soc.*, **99**, S84 - S87, <https://doi.org/10.1175/2018BAMSStateoftheClimate.1>
- Tozuka, T., S. Ohishi, and M. F. Cronin, 2018: A metric for surface heat flux effect on horizontal sea surface temperature gradients. *Climate Dynamics*, **51**, 547-561, <https://doi.org/10.1007/s00382-017-3940-2>
- Trenberth, K. E., L. Cheng, P. Jacobs, Y. Zhang, and J. Fasullo, 2018: Hurricane Harvey Links to Ocean Heat Content and Climate Change Adaptation. *Earth's Future*, **6**, 730-744, <https://doi.org/10.1029/2018EF000825>
- Tung, K.-K. and X. Chen, 2018: Understanding the Recent Global Surface Warming Slowdown: A Review. *Climate*, **6**, 82, <https://doi.org/10.3390/cli6040082>
- Tyagi, G., K. N. Babu, A. K. Mathur, and H. A. Solanki, 2018: INSAT-3D and MODIS retrieved sea surface temperature validation and assessment over waters surrounding the Indian subcontinent. *International Journal of Remote Sensing*, **39**, 1575-1592, <https://doi.org/10.1080/01431161.2017.1407051>
- Uchiyama, Y., R. Kanki, A. Takano, H. Yamazaki, and Y. Miyazawa, 2018: Mesoscale Reproducibility in Regional Ocean Modelling with a Three-Dimensional Stratification Estimate Based on Aviso-Argo Data. *Atmosphere-Ocean*, **56**, 212-229, <https://doi.org/10.1080/07055900.2017.1399858>
- Uchiyama, Y., S. Odani, M. Kashima, Y. Kamidaira, and S. Mitarai, 2018: Influences of the Kuroshio on Interisland Remote Connectivity of Corals Across the Nansei Archipelago in the East China Sea. *Journal of Geophysical Research: Oceans*, **123**, 9245-9265, <https://doi.org/10.1029/2018JC014017>
- Valla, D., A. R. Piola, C. S. Meinen, and E. Campos, 2018: Strong Mixing and Recirculation in the Northwestern Argentine Basin. *Journal of Geophysical Research: Oceans*, **123**, 4624-4648, <https://doi.org/10.1029/2018JC013907>
- Valsala, V., S. Singh, and S. Balasubramanian, 2018: A Modeling Study of Interannual Variability of Bay of Bengal Mixing and Barrier Layer Formation. *Journal of Geophysical Research: Oceans*, **123**, 3962-3981, <https://doi.org/10.1029/2017JC013637>
- van Sebille, E., S. M. Griffies, R. Abernathey, T. P. Adams, P. Berloff, A. Biastoch, B. Blanke, E. P. Chassignet, Y. Cheng, C. J. Cotter, E. Deleersnijder, K. Döös, H. F. Drake, S. Drijfhout, S. F. Gary, A. W. Heemink, J. Kjellsson, I. M. Koszalka, M. Lange, C. Lique, G. A. MacGilchrist, R. Marsh, C. G. Mayorga Adame, R. McAdam, F. Nencioli, C. B. Paris, M. D. Piggott, J. A. Polton, S. Rühls, S. H. A. M. Shah, M. D. Thomas, J. Wang, P. J. Wolfram, L. Zanna, and J. D. Zika, 2018: Lagrangian ocean analysis: Fundamentals and practices. *Ocean Modelling*, **121**, 49-75, <https://doi.org/10.1016/j.ocemod.2017.11.008>
- Varela, R., X. Costoya, C. Enriquez, F. Santos, and M. Gómez-Gesteira, 2018: Differences in coastal and oceanic SST trends north of Yucatan Peninsula. *Journal of Marine Systems*, **182**, 46-55, <https://doi.org/10.1016/j.jmarsys.2018.03.006>
- Vasile, R., K. Hartmann, A. J. Hobday, E. Oliver, and S. Tracey, 2018: Evaluation of hydrodynamic ocean models as a first step in larval dispersal modelling. *Continental Shelf Research*, **152**, 38-49, <https://doi.org/10.1016/j.csr.2017.11.001>
- Vazquez-Cuervo, J., S. Fournier, B. Dzwonkowski, and J. Reager, 2018: Intercomparison of

- In-Situ and Remote Sensing Salinity Products in the Gulf of Mexico, a River-Influenced System. *Remote Sensing*, **10**, 1590, <https://doi.org/10.3390/rs10101590>
- Venkatesan, R., A. Tandon, D. Sengupta, and K. N. Navaneeth, 2018: Recent Trends in Ocean Observations. *Observing the Oceans in Real Time*, R. Venkatesan, A. Tandon, E. D'Asaro, and M. A. Atmanand, Eds., Springer International Publishing, 3-13, https://doi.org/10.1007/978-3-319-66493-4_1.
- Verri, G., N. Pinardi, P. Oddo, S. A. Ciliberti, and G. Coppini, 2018: River runoff influences on the Central Mediterranean overturning circulation. *Climate Dynamics*, **50**, 1675-1703, <https://doi.org/10.1007/s00382-017-3715-9>
- Vic, C., J. Gula, G. Roullet, and F. Pradillon, 2018: Dispersion of deep-sea hydrothermal vent effluents and larvae by submesoscale and tidal currents. *Deep Sea Research Part I: Oceanographic Research Papers*, **133**, 1-18, <https://doi.org/10.1016/j.dsr.2018.01.001>
- Vidya, P. J. and S. Kurian, 2018: Impact of 2015–2016 ENSO on the winter bloom and associated phytoplankton community shift in the northeastern Arabian Sea. *Journal of Marine Systems*, **186**, 96-104, <https://doi.org/10.1016/j.jmarsys.2018.06.005>
- Vigo, M. I., D. García-García, M. D. Sempere, and B. F. Chao, 2018: 3D Geostrophy and Volume Transport in the Southern Ocean. *Remote Sensing*, **10**, 715, <https://doi.org/10.3390/rs10050715>
- Vilibić, I., H. Mihanović, I. Janeković, C. Denamiel, P. M. Poulain, M. Orlić, N. Dunić, V. Dadić, M. Pasarić, S. Muslim, R. Gerin, F. Matic, J. Šepić, E. Mauri, Z. Kokkini, M. Tudor, Ž. Kovač, and T. Džoić, 2018: Wintertime dynamics in the coastal northeastern Adriatic Sea: the NAdEx 2015 experiment. *Ocean Sci.*, **14**, 237-258, <https://doi.org/10.5194/os-14-237-2018>
- Vinayachandran, P. N., A. J. Matthews, K. V. Kumar, A. Sanchez-Franks, V. Thushara, J. George, V. Vijith, B. G. M. Webber, B. Y. Queste, R. Roy, A. Sarkar, D. B. Baranowski, G. S. Bhat, N. P. Klingaman, S. C. Peatman, C. Parida, K. J. Heywood, R. Hall, B. King, E. C. Kent, A. A. Nayak, C. P. Neema, P. Amol, A. Lotliker, A. Kankonkar, D. G. Gracias, S. Vernekar, A. C. D'Souza, G. Valluvan, S. M. Pargaonkar, K. Dinesh, J. Giddings, and M. Joshi, 2018: BoBBLE: Ocean–Atmosphere Interaction and Its Impact on the South Asian Monsoon. *Bulletin of the American Meteorological Society*, **99**, 1569-1587, <https://doi.org/10.1175/BAMS-D-16-0230.1>
- von Schuckmann, K. and P.-Y. Le Traon and N. Smith and A. Pascual and P. Brasseur and K. Fennel and S. Djavidnia and S. Aabo and E. A. Fanjul and E. Autret and L. Axell and R. Aznar and M. Benincasa and A. Bentamy and F. Boberg and R. Bourdallé-Badie and B. B. Nardelli and V. E. Brando and C. Bricaud and L.-A. Breivik and R. J. W. Brewin and A. Capet and A. Ceschin and S. Ciliberti and G. Cossarini and M. de Alfonso and A. de Pascual Collar and J. de Kloe and J. Deshayes and C. Desportes and M. Drévillon and Y. Drillet and R. Droghei and C. Dubois and O. Embury and H. Etienne and C. Fratianni and J. G. Lafuente and M. G. Sotillo and G. Garric and F. Gasparin and R. Gerin and S. Good and J. Gourrion and M. Grégoire and E. Greiner and S. Guinehut and E. Gutknecht and F. Hernandez and O. Hernandez and J. Høyer and L. Jackson and S. Jandt and S. Josey and M. Juza and J. Kennedy and Z. Kokkini and G. Korres and M. Kōuts and P. Lagema and T. Lavergne and B. le Cann and J.-F. Legeais and B.

Lemieux-Dudonand B. Levierand V. Lienand I. Maljutenkoand F. Manzanoand M. Marcosand V. Marinaand S. Masinaand E. Mauriand M. Mayerand A. Meletand F. Mélinand B. Meyssignacand M. Monierand M. Müllerand S. Muletand C. Naranjoand G. Notarstefanoand A. Paulmierand B. P. Gomezand I. P. Gonzalezand E. Penevaand C. Perrucheand K. Andrew Petersonand N. Pinarand A. Pisanoand S. Pardoand P.-M. Poulainand R. P. Rajand U. Raudseppand M. Ravdasand R. Reidand M.-H. Rioand S. Salonand A. Samuelsenand M. Sammartinoand S. Sammartinoand A. B. Sandøand R. Santoleriand S. Sathyendranathand J. Sheand S. Simoncelliand C. Solidoroand A. Stoffelenand A. Stortoand T. Szerkelyand S. Tammand S. Tietscheand J. Tinkerand J. Tintoreand A. Trindadeand D. van Zantenand L. Vandenbulckeand A. Verhoefand N. Verbruggeand L. Viktorssonand K. von Schuckmannand S. L. Wakelinand A. Zacharioudaki and H. Zuo, 2018: Copernicus Marine Service Ocean State Report. *Journal of Operational Oceanography*, **11**, S1-S142, <https://doi.org/10.1080/1755876X.2018.1489208>

- Wan, L.-Y., Y. Liu, and T.-J. Ling, 2018: Development of a global high-resolution marine dynamic environmental forecasting system. *Atmospheric and Oceanic Science Letters*, **11**, 379-387, <https://doi.org/10.1080/16742834.2018.1501261>
- Wang, G., L. Cheng, J. Abraham, and C. Li, 2018: Consensuses and discrepancies of basin-scale ocean heat content changes in different ocean analyses. *Climate Dynamics*, **50**, 2471-2487, <https://doi.org/10.1007/s00382-017-3751-5>
- Wang, G., B. Zhao, F. Qiao, and C. Zhao, 2018: Rapid intensification of Super Typhoon Haiyan: the important role of a warm-core ocean eddy. *Ocean Dynamics*, **68**, 1649-1661, <https://doi.org/10.1007/s10236-018-1217-x>
- Wang, H., J. L. McClean, L. D. Talley, and S. Yeager, 2018: Seasonal Cycle and Annual Reversal of the Somali Current in an Eddy-Resolving Global Ocean Model. *Journal of Geophysical Research: Oceans*, **123**, 6562-6580, <https://doi.org/10.1029/2018JC013975>
- Wang, J. and X. Chen, 2018: Intercomparison of the Extended Reconstructed Sea Surface Temperature v4 and v3b Datasets. *Journal of Ocean University of China*, **17**, 209-218, <https://doi.org/10.1007/s11802-018-3347-7>
- Wang, J., M. Li, X. S. Liang, X. Wang, F. Xue, M. Peng, and C. Miao, 2018: Regional Characteristics of Typhoon-Induced Ocean Eddies in the East China Sea. *Advances in Atmospheric Sciences*, **35**, 826-838, <https://doi.org/10.1007/s00376-017-7173-4>
- Wang, L. and F. Xu, 2018: Decadal variability and trends of oceanic barrier layers in tropical Pacific. *Ocean Dynamics*, **68**, 1155-1168, <https://doi.org/10.1007/s10236-018-1191-3>
- Wang, S., G. Li, M. Iskandarani, M. Le Hénaff, and O. M. Knio, 2018: Verifying and assessing the performance of the perturbation strategy in polynomial chaos ensemble forecasts of the circulation in the Gulf of Mexico. *Ocean Modelling*, **131**, 59-70, <https://doi.org/10.1016/j.ocemod.2018.09.002>
- Wang, T., S. T. Gille, M. R. Mazloff, N. V. Zilberman, and Y. Du, 2018: Numerical Simulations to Project Argo Float Positions in the Middepth and Deep Southwest Pacific. *Journal of Atmospheric and Oceanic Technology*, **35**, 1425-1440, <https://doi.org/10.1175/JTECH-D-17-0214.1>
- Wang, W., A. Pan, K. Edi, H. Muh, and S. Deny, 2018: North-south difference of water mass

- properties across the Lembah Strait, North Sulawesi, Indonesia. *Acta Oceanologica Sinica*, **37**, 1-8, <https://doi.org/10.1007/s13131-018-1282-5>
- Wang, X., X. Wang, and P. C. Chu, 2018: Air-sea interactions during rapid intensification of typhoon Fengshen (2008). *Deep Sea Research Part I: Oceanographic Research Papers*, **140**, 63-77, <https://doi.org/10.1016/j.dsr.2018.08.009>
- Wang, X., W. Zhang, P. Wang, J. Yang, and H. Wang, 2018: Research on mid-depth current of basin scale in the South China Sea based on historical Argo observations. *Haiyang Xuebao*, **40**, 1-14,
- Weatherhead, E. C., B. A. Wielicki, V. Ramaswamy, M. Abbott, T. P. Ackerman, R. Atlas, G. Brasseur, L. Bruhwiler, A. J. Busalacchi, J. H. Butler, C. T. M. Clack, R. Cooke, L. Cucurull, S. M. Davis, J. M. English, D. W. Fahey, S. S. Fine, J. K. Lazo, S. Liang, N. G. Loeb, E. Rignot, B. Soden, D. Stanitski, G. Stephens, B. D. Tapley, A. M. Thompson, K. E. Trenberth, and D. Wuebbles, 2018: Designing the Climate Observing System of the Future. *Earth's Future*, **6**, 80-102, <https://doi.org/10.1002/2017EF000627>
- Webber, B. G. M., A. J. Matthews, P. N. Vinayachandran, C. P. Neema, A. Sanchez-Franks, V. Vijith, P. Amol, and D. B. Baranowski, 2018: The Dynamics of the Southwest Monsoon Current in 2016 from High-Resolution In Situ Observations and Models. *Journal of Physical Oceanography*, **48**, 2259-2282, <https://doi.org/10.1175/JPO-D-17-0215.1>
- Wei, T., J. Li, X. Rong, W. Dong, B. Wu, and M. Ding, 2018: Arctic Climate Changes Based on Historical Simulations (1900–2013) with the CAMS-CSM. *Journal of Meteorological Research*, **32**, 881-895, <https://doi.org/10.1007/s13351-018-7188-5>
- West, B. J., W. Han, and Y. Li, 2018: The Role of Oceanic Processes in the Initiation of Indian Summer Monsoon Intraseasonal Oscillations Over the Indian Ocean. *Journal of Geophysical Research: Oceans*, **123**, 3685-3704, <https://doi.org/10.1029/2017JC013564>
- Whalen, C. B., J. A. MacKinnon, and L. D. Talley, 2018: Large-scale impacts of the mesoscale environment on mixing from wind-driven internal waves. *Nature Geoscience*, **11**, 842-847, <https://doi.org/10.1038/s41561-018-0213-6>
- Wijeratne, S., C. Pattiaratchi, and R. Proctor, 2018: Estimates of Surface and Subsurface Boundary Current Transport Around Australia. *Journal of Geophysical Research: Oceans*, **123**, 3444-3466, <https://doi.org/10.1029/2017JC013221>
- Williams, N. L., L. W. Juranek, R. A. Feely, J. L. Russell, K. S. Johnson, and B. Hales, 2018: Assessment of the Carbonate Chemistry Seasonal Cycles in the Southern Ocean From Persistent Observational Platforms. *Journal of Geophysical Research: Oceans*, **123**, 4833-4852, <https://doi.org/10.1029/2017JC012917>
- Wojtasiewicz, B., N. J. Hardman-Mountford, D. Antoine, F. Dufois, D. Slawinski, and T. W. Trull, 2018: Use of bio-optical profiling float data in validation of ocean colour satellite products in a remote ocean region. *Remote Sensing of Environment*, **209**, 275-290, <https://doi.org/10.1016/j.rse.2018.02.057>
- Wojtasiewicz, B., I. D. Walsh, D. Antoine, D. Slawinski, and N. J. Hardman-Mountford, 2018: Inferring and Removing a Spurious Response in the Optical Backscattering Signal from an Autonomous Profiling Float. *Journal of Atmospheric and Oceanic Technology*, **35**, 2137-2146, <https://doi.org/10.1175/JTECH-D-18-0027.1>

- Wolf, M. K., R. C. Hamme, D. Gilbert, I. Yashayaev, and V. Thierry, 2018: Oxygen Saturation Surrounding Deep Water Formation Events in the Labrador Sea From Argo-O₂ Data. *Global Biogeochemical Cycles*, **32**, 635-653, <https://doi.org/10.1002/2017GB005829>
- Wu, B., T. Zhou, and F. Zheng, 2018: EnOI-IAU Initialization Scheme Designed for Decadal Climate Prediction System IAP-DecPreS. *Journal of Advances in Modeling Earth Systems*, **10**, 342-356, <https://doi.org/10.1002/2017MS001132>
- Wu, R. and C. Li, 2018: Upper ocean response to the passage of two sequential typhoons. *Deep Sea Research Part I: Oceanographic Research Papers*, **132**, 68-79, <https://doi.org/10.1016/j.dsr.2017.12.006>
- Wu, R., H. Zhang, D. Chen, C. Li, and J. Lin, 2018: Impact of Typhoon Kalmaegi (2014) on the South China Sea: Simulations using a fully coupled atmosphere-ocean-wave model. *Ocean Modelling*, **131**, 132-151, <https://doi.org/10.1016/j.ocemod.2018.08.004>
- Xia, R., C. Liu, and C. Cheng, 2018: On the subtropical Northeast Pacific mixed layer depth and its influence on the subduction. *Acta Oceanologica Sinica*, **37**, 51-62, <https://doi.org/10.1007/s13131-017-1102-3>
- Xing, X., N. Briggs, E. Boss, and H. Claustre, 2018: Improved correction for non-photochemical quenching of in situ chlorophyll fluorescence based on a synchronous irradiance profile. *Optics Express*, **26**, 24734-24751, <https://doi.org/10.1364/OE.26.024734>
- Xing, X.-G., H. Claustre, E. Boss, and F. Chai, 2018: Toward deeper development of Biogeochemical-Argo floats. *Atmospheric and Oceanic Science Letters*, **11**, 287-290, <https://doi.org/10.1080/16742834.2018.1457932>
- Xu, J. and L. Gao, 2018: The temporal-spatial features of evaporation and precipitation and the effect on sea surface salinity in the tropical Indian Ocean. *Haiyang Xuebao*, **40**, 90-102,
- Yang, H., B. Qiu, P. Chang, L. Wu, S. Wang, Z. Chen, and Y. Yang, 2018: Decadal Variability of Eddy Characteristics and Energetics in the Kuroshio Extension: Unstable Versus Stable States. *Journal of Geophysical Research: Oceans*, **123**, 6653-6669, <https://doi.org/10.1029/2018JC014081>
- Yang, L., L. Zhou, S. Li, and Z. Wei, 2018: Spreading of the South Pacific Tropical Water and Antarctic Intermediate Water Over the Maritime Continent. *Journal of Geophysical Research: Oceans*, **123**, 4423-4446, <https://doi.org/10.1029/2018JC013831>
- Yin, J., J. Overpeck, C. Peyser, and R. Stouffer, 2018: Big Jump of Record Warm Global Mean Surface Temperature in 2014–2016 Related to Unusually Large Oceanic Heat Releases. *Geophysical Research Letters*, **45**, 1069-1078, <https://doi.org/10.1002/2017GL076500>
- Yin, X., J. Shi, and F. Qiao, 2018: Evaluation on surface current observing network of high frequency ground wave radars in the Gulf of Thailand. *Ocean Dynamics*, **68**, 575-587, <https://doi.org/10.1007/s10236-018-1149-5>
- Yu, J.-Y. and S.-W. Fang, 2018: The Distinct Contributions of the Seasonal Footprinting and Charged-Discharged Mechanisms to ENSO Complexity. *Geophysical Research Letters*, **45**, 6611-6618, <http://dx.doi.org/10.1029/2018GL077664>
- Yu, L., X. Jin, and H. Liu, 2018: Poleward Shift in Ventilation of the North Atlantic Subtropical Underwater. *Geophysical Research Letters*, **45**, 258-266,

- <http://dx.doi.org/10.1002/2017GL075772>
- Yu, Y., B. F. Chao, D. García-García, and Z. Luo, 2018: Variations of the Argentine Gyre Observed in the GRACE Time-Variable Gravity and Ocean Altimetry Measurements. *Journal of Geophysical Research: Oceans*, **123**, 5375-5387, <https://doi.org/10.1029/2018JC014189>
- Yuan, X., M. Salama, and Z. Su, 2018: An Observational Perspective of Sea Surface Salinity in the Southwestern Indian Ocean and Its Role in the South Asia Summer Monsoon. *Remote Sensing*, **10**, 1930, <https://dx.doi.org/10.3390/rs10121930>
- Yue, X., B. Zhang, G. Liu, X. Li, H. Zhang, and Y. He, 2018: Upper Ocean Response to Typhoon Kalmaegi and Sarika in the South China Sea from Multiple-Satellite Observations and Numerical Simulations. *Remote Sensing*, **10**, 348, <https://doi.org/10.3390/rs10020348>
- Zaba, K. D., D. L. Rudnick, B. D. Cornuelle, G. Gopalakrishnan, and M. R. Mazloff, 2018: Annual and Interannual Variability in the California Current System: Comparison of an Ocean State Estimate with a Network of Underwater Gliders. *Journal of Physical Oceanography*, **48**, 2965-2988, <https://doi.org/10.1175/JPO-D-18-0037.1>
- Zeng, L., E. P. Chassignet, R. W. Schmitt, X. Xu, and D. Wang, 2018: Salinification in the South China Sea Since Late 2012: A Reversal of the Freshening Since the 1990s. *Geophysical Research Letters*, **45**, 2744-2751, <https://doi.org/10.1002/2017GL076574>
- Zhang, L., Y. Du, and W. Cai, 2018: Low-Frequency Variability and the Unusual Indian Ocean Dipole Events in 2015 and 2016. *Geophysical Research Letters*, **45**, 1040-1048, <https://doi.org/10.1002/2017GL076003>
- Zhang, L., W. Han, Y. Li, and E. D. Maloney, 2018: Role of North Indian Ocean Air–Sea Interaction in Summer Monsoon Intraseasonal Oscillation. *Journal of Climate*, **31**, 7885-7908, <https://doi.org/10.1175/JCLI-D-17-0691.1>
- Zhang, M., Z. Wu, and F. Qiao, 2018: Deep Atlantic Ocean Warming Facilitated by the Deep Western Boundary Current and Equatorial Kelvin Waves. *Journal of Climate*, **31**, 8541-8555, <https://doi.org/10.1175/JCLI-D-18-0255.1>
- Zhang, M., Y. Zhang, Q. Shu, C. Zhao, G. Wang, Z. Wu, and F. Qiao, 2018: Spatiotemporal evolution of the chlorophyll a trend in the North Atlantic Ocean. *Science of The Total Environment*, **612**, 1141-1148, <https://doi.org/10.1016/j.scitotenv.2017.08.303>
- Zhang, W.-Z., Q. Ni, and H. Xue, 2018: Composite eddy structures on both sides of the Luzon Strait and influence factors. *Ocean Dynamics*, **68**, 1527-1541, <https://doi.org/10.1007/s10236-018-1207-z>
- Zhang, X., P. C. Chu, W. Li, C. Liu, L. Zhang, C. Shao, X. Zhang, G. Chao, and Y. Zhao, 2018: Impact of Langmuir Turbulence on the Thermal Response of the Ocean Surface Mixed Layer to Supertyphoon Haitang (2005). *Journal of Physical Oceanography*, **48**, 1651-1674, <https://doi.org/10.1175/JPO-D-17-0132.1>
- Zhang, Y., Y. Du, and M. Feng, 2018: Multiple Time Scale Variability of the Sea Surface Salinity Dipole Mode in the Tropical Indian Ocean. *Journal of Climate*, **31**, 283-296, <https://doi.org/10.1175/JCLI-D-17-0271.1>
- Zhang, Y., M. Feng, Y. Du, H. E. Phillips, N. L. Bindoff, and M. J. McPhaden, 2018: Strengthened Indonesian Throughflow Drives Decadal Warming in the Southern Indian Ocean. *Geophysical Research Letters*, **45**, 6167-6175, <https://doi.org/10.1029/2017GL075772>

<https://doi.org/10.1029/2018GL078265>

- Zhang, Y., H. Xu, F. Qiao, and C. Dong, 2018: Seasonal variation of the global mixed layer depth: comparison between Argo data and FIO-ESM. *Frontiers of Earth Science*, **12**, 24-36, <https://doi.org/10.1007/s11707-017-0631-6>
- Zhang, Z., B. Qiu, J. Tian, W. Zhao, and X. Huang, 2018: Latitude-dependent finescale turbulent shear generations in the Pacific tropical-extratropical upper ocean. *Nature Communications*, **9**, 4086, <https://doi.org/10.1038/s41467-018-06260-8>
- Zhang, Z., P. Uotila, A. Stössel, T. Vihma, H. Liu, and Y. Zhong, 2018: Seasonal southern hemisphere multi-variable reflection of the southern annular mode in atmosphere and ocean reanalyses. *Climate Dynamics*, **50**, 1451-1470, <https://doi.org/10.1007/s00382-017-3698-6>
- Zhao, R., X.-H. Zhu, J.-H. Park, and Q. Li, 2018: Internal tides in the northwestern South China Sea observed by pressure-recording inverted echo sounders. *Progress in Oceanography*, **168**, 112-122, <https://doi.org/10.1016/j.pocean.2018.09.019>
- Zhao, X., F. Gui, V. S. Mantravadi, and L. Wang, 2018: Salinity Variations over Zhejiang Province Waters, China. *Open Access Library Journal*, **Vol.05**, 12, <https://doi.org/10.4236/oalib.1104562>
- Zhou, C., X. Ding, J. Zhang, J. Yang, and Q. Ma, 2018: An evaluation of sea surface height assimilation using along-track and gridded products based on the Regional Ocean Modeling System (ROMS) and the four-dimensional variational data assimilation. *Acta Oceanologica Sinica*, **37**, 50-58, <https://doi.org/10.1007/s13131-018-1225-1>
- Zhou, H., D. Yuan, L. Yang, X. Li, and W. Dewar, 2018: Decadal Variability of the Meridional Geostrophic Transport in the Upper Tropical North Pacific Ocean. *Journal of Climate*, **31**, 5891-5910, <https://doi.org/10.1175/JCLI-D-17-0639.1>
- Zhu, Y. and R.-H. Zhang, 2018: Scaling wind stirring effects in an oceanic bulk mixed layer model with application to an OGCM of the tropical Pacific. *Climate Dynamics*, **51**, 1927-1946, <https://doi.org/10.1007/s00382-017-3990-5>
- Zhu, Y. and R. H. Zhang, 2018: An Argo-Derived Background Diffusivity Parameterization for Improved Ocean Simulations in the Tropical Pacific. *Geophysical Research Letters*, **45**, 1509-1517, <https://doi.org/10.1002/2017GL076269>
- Zilberman, N. V., D. H. Roemmich, S. T. Gille, and J. Gilson, 2018: Estimating the Velocity and Transport of Western Boundary Current Systems: A Case Study of the East Australian Current near Brisbane. *Journal of Atmospheric and Oceanic Technology*, **35**, 1313-1329, <https://doi.org/10.1175/JTECH-D-17-0153.1>

2017 (419)

- Ablain, M., J. F. Legeais, P. Prandi, M. Marcos, L. Fenoglio-Marc, H. B. Dieng, J. Benveniste, and A. Cazenave, 2017: Satellite Altimetry-Based Sea Level at Global and Regional Scales. *Surveys in Geophysics*, **38**, 7-31, <http://dx.doi.org/10.1007/s10712-016-9389-8>
- Akbari, E., S. K. Alavipanah, M. Jeihouni, M. Hajeb, D. Haase, and S. Alavipanah, 2017: A Review of Ocean/Sea Subsurface Water Temperature Studies from Remote Sensing and Non-Remote Sensing Methods. *Water*, **9**, 936,

- <https://doi.org/10.3390/w9120936>
- Akpınar, A., B. A. Fach, and T. Oguz, 2017: Observing the subsurface thermal signature of the Black Sea cold intermediate layer with Argo profiling floats. *Deep Sea Research Part I: Oceanographic Research Papers*, **124**, 140-152, <http://dx.doi.org/10.1016/j.dsr.2017.04.002>
- Alberty, M. S., J. Sprintall, J. MacKinnon, A. Ganachaud, S. Cravatte, G. Eldin, C. Germineaud, and A. Melet, 2017: Spatial patterns of mixing in the Solomon Sea. *Journal of Geophysical Research: Oceans*, **122**, 4021-4039, <http://dx.doi.org/10.1002/2016JC012666>
- Amores, A., O. Melnichenko, and N. Maximenko, 2017: Coherent mesoscale eddies in the North Atlantic subtropical gyre: 3-D structure and transport with application to the salinity maximum. *Journal of Geophysical Research: Oceans*, **122**, 23-41, <http://dx.doi.org/10.1002/2016JC012256>
- Amstrup, S. C. and F. Lehner, 2017: Anthropogenic Ocean Change: The Consummate Threat to Marine Mammal Welfare. *Marine Mammal Welfare: Human Induced Change in the Marine Environment and its Impacts on Marine Mammal Welfare*, A. Butterworth, Ed., Springer International Publishing, 9-26, https://doi.org/10.1007/978-3-319-46994-2_2.
- Ando, K., Y. Kuroda, Y. Fujii, T. Fukuda, T. Hasegawa, T. Horii, Y. Ishihara, Y. Kashino, Y. Masumoto, K. Mizuno, M. Nagura, and I. Ueki, 2017: Fifteen years progress of the TRITON array in the Western Pacific and Eastern Indian Oceans. *Journal of Oceanography*, **73**, 403-426, <https://doi.org/10.1007/s10872-017-0414-4>
- Annamalai, H., B. Taguchi, J. P. McCreary, M. Nagura, and T. Miyama, 2017: Systematic Errors in South Asian Monsoon Simulation: Importance of Equatorial Indian Ocean Processes. *Journal of Climate*, **30**, 8159-8178, <https://doi.org/10.1175/JCLI-D-16-0573.1>
- Anutaliya, A., U. Send, J. L. McClean, J. Sprintall, L. Rainville, C. M. Lee, S. U. P. Jinadasa, A. J. Wallcraft, and E. J. Metzger, 2017: An undercurrent off the east coast of Sri Lanka. *Ocean Sci.*, **13**, 1035-1044, <https://doi.org/10.5194/os-13-1035-2017>
- Arrigo, K. R., G. L. van Dijken, R. M. Castelao, H. Luo, Å. K. Rennermalm, M. Tedesco, T. L. Mote, H. Oliver, and P. L. Yager, 2017: Melting glaciers stimulate large summer phytoplankton blooms in southwest Greenland waters. *Geophysical Research Letters*, **44**, 6278-6285, <http://dx.doi.org/10.1002/2017GL073583>
- Athanasiadis, P. J., A. Bellucci, A. A. Scaife, L. Hermanson, S. Materia, A. Sanna, A. Borrelli, C. MacLachlan, and S. Gualdi, 2017: A Multisystem View of Wintertime NAO Seasonal Predictions. *Journal of Climate*, **30**, 1461-1475, <http://dx.doi.org/10.1175/jcli-d-16-0153.1>
- Bachman, S. D., J. R. Taylor, K. A. Adams, and P. J. Hosegood, 2017: Mesoscale and Submesoscale Effects on Mixed Layer Depth in the Southern Ocean. *Journal of Physical Oceanography*, **47**, 2173-2188, <https://doi.org/10.1175/JPO-D-17-0034.1>
- Bai, X., X. Li, K. G. Lamb, and J. Hu, 2017: Internal Solitary Wave Reflection Near Dongsha Atoll, the South China Sea. *Journal of Geophysical Research: Oceans*, **122**, 7978-7991, <http://dx.doi.org/10.1002/2017JC012880>
- Bai, Y., H. Song, Y. Guan, and S. Yang, 2017: Estimating depth of polarity conversion of

- shoaling internal solitary waves in the northeastern South China Sea. *Continental Shelf Research*, **143**, 9-17, <http://dx.doi.org/10.1016/j.csr.2017.05.014>
- Baringer, M. O., D. A. Smeed, J. Willis, M. Lankhorst, W. R. Hobbs, S. Dong, G. D. McCarthy, D. Rayner, W. E. Johns, G. Goni, and U. Send, 2017: Meridional overturning and oceanic heat transport circulation observations in the North Atlantic Ocean in the State of the Climate in 2016. *Bull. Am. Meteorol. Soc.*, **98**, S84-S87, <https://doi.org/10.1175/2017BAMSStateoftheClimate.1>
- Bellenger, H., K. Drushka, W. Asher, G. Reverdin, M. Katsumata, and M. Watanabe, 2017: Extension of the prognostic model of sea surface temperature to rain-induced cool and fresh lenses. *Journal of Geophysical Research: Oceans*, **122**, 484-507, <http://dx.doi.org/10.1002/2016JC012429>
- Bettencourt, J. H., V. Rossi, E. Hernández-García, M. Marta-Almeida, and C. López, 2017: Characterization of the structure and cross-shore transport properties of a coastal upwelling filament using three-dimensional finite-size Lyapunov exponents. *Journal of Geophysical Research: Oceans*, **122**, 7433-7448, <http://dx.doi.org/10.1002/2017JC012700>
- Bhaskar, T. V. S., R. Venkat Shesu, T. P. Boyer, and E. Pattabhi Rama Rao, 2017: Quality control of oceanographic in situ data from Argo floats using climatological convex hulls. *MethodsX*, **4**, 469-479, <https://doi.org/10.1016/j.mex.2017.11.007>
- Bingham, F. M. and T. Lee, 2017: Space and time scales of sea surface salinity and freshwater forcing variability in the global ocean (60°S–60°N). *Journal of Geophysical Research: Oceans*, **122**, 2909-2922, <http://dx.doi.org/10.1002/2016JC012216>
- Bittig, H. C. and A. Körtzinger, 2017: Technical note: Update on response times, in-air measurements, and in situ drift for oxygen optodes on profiling platforms. *Ocean Science*, **13**, 1-11, <http://dx.doi.org/10.5194/os-13-1-2017>
- Borovikov, A., R. Cullather, R. Kovach, J. Marshak, G. Vernieres, Y. Vikhliav, B. Zhao, and Z. Li, 2017: GEOS-5 seasonal forecast system. *Climate Dynamics*, <https://doi.org/10.1007/s00382-017-3835-2>
- Bowen, M., J. Markham, P. Sutton, X. Zhang, Q. Wu, N. T. Shears, and D. Fernandez, 2017: Interannual Variability of Sea Surface Temperature in the Southwest Pacific and the Role of Ocean Dynamics. *Journal of Climate*, **30**, 7481-7492, <https://doi.org/10.1175/JCLI-D-16-0852.1>
- Breckenfelder, T., M. Rhein, A. Roessler, C. W. Böning, A. Biastoch, E. Behrens, and C. Mertens, 2017: Flow paths and variability of the North Atlantic Current: A comparison of observations and a high-resolution model. *Journal of Geophysical Research: Oceans*, **122**, 2686-2708, <http://dx.doi.org/10.1002/2016JC012444>
- Buehner, M., L. Bertino, A. Caya, P. Heimbach, and G. Smith, 2017: Sea Ice Analysis and Forecasting: Towards an Increased Reliance on Automated Prediction Systems. T. Carrieres, M. Buehner, J. F. Lemieux, and L. T. Pedersen, Eds., Cambridge University Press, 109-143, <https://doi.org/10.1017/9781108277600>
- Buongiorno Nardelli, B., S. Guinehut, N. Verbrugge, Y. Cotroneo, E. Zambianchi, and D. Iudicone, 2017: Southern Ocean Mixed-Layer Seasonal and Interannual Variations From Combined Satellite and In Situ Data. *Journal of Geophysical Research: Oceans*, **122**, 10042-10060, <http://dx.doi.org/10.1002/2017JC013314>

- Burns, J. M., B. Subrahmanyam, and V. S. N. Murty, 2017: On the dynamics of the Sri Lanka Dome in the Bay of Bengal. *Journal of Geophysical Research: Oceans*, **122**, 7737-7750, <http://dx.doi.org/10.1002/2017JC012986>
- Busecke, J., R. P. Abernathy, and A. L. Gordon, 2017: Lateral Eddy Mixing in the Subtropical Salinity Maxima of the Global Ocean. *Journal of Physical Oceanography*, **47**, 737-754, <http://dx.doi.org/10.1175/jpo-d-16-0215.1>
- Bushinsky, S. M., A. R. Gray, K. S. Johnson, and J. L. Sarmiento, 2017: Oxygen in the Southern Ocean From Argo Floats: Determination of Processes Driving Air-Sea Fluxes. *Journal of Geophysical Research: Oceans*, **122**, 8661-8682, <http://dx.doi.org/10.1002/2017JC012923>
- Bushuk, M., R. Msadek, M. Winton, G. A. Vecchi, R. Gudgel, A. Rosati, and X. Yang, 2017: Skillful regional prediction of Arctic sea ice on seasonal timescales. *Geophysical Research Letters*, **44**, 4953-4964, <http://dx.doi.org/10.1002/2017GL073155>
- Calafat, F. M., P. Cipollini, J. Bouffard, H. Snaith, and P. Féménias, 2017: Evaluation of new CryoSat-2 products over the ocean. *Remote Sensing of Environment*, **191**, 131-144, <http://doi.org/10.1016/j.rse.2017.01.009>
- Caniaux, G., L. Prieur, H. Giordani, and J. L. Redelsperger, 2017: An inverse method to derive surface fluxes from the closure of oceanic heat and water budgets: Application to the north-western Mediterranean Sea. *Journal of Geophysical Research: Oceans*, **122**, 2884-2908, <http://dx.doi.org/10.1002/2016JC012167>
- Carret, A., J. A. Johannessen, O. B. Andersen, M. Ablain, P. Prandi, A. Blazquez, and A. Cazenave, 2017: Arctic Sea Level During the Satellite Altimetry Era. *Surveys in Geophysics*, **38**, 251-275, <http://dx.doi.org/10.1007/s10712-016-9390-2>
- Carrieres, T., A. Caya, P. Posey, E. J. Metzger, L. Bertino, A. Melsom, G. Smith, M. Sigmund, V. Kharin, and A. Tivy, 2017: Sea Ice Analysis and Forecasting: Towards an Increased Reliance on Automated Prediction Systems. T. Carrieres, M. Buehner, J. F. Lemieux, and L. T. Pedersen, Eds., Cambridge University Press, 144-173, <https://doi.org/10.1017/9781108277600>.
- Castellanos, P., E. J. D. Campos, J. Piera, O. T. Sato, and M. A. F. S. Dias, 2017: Impacts of Agulhas Leakage on the Tropical Atlantic Western Boundary Systems. *Journal of Climate*, **30**, 6645-6659, <https://doi.org/10.1175/JCLI-D-15-0878.1>
- Chacko, N., 2017: Chlorophyll bloom in response to tropical cyclone Hudhud in the Bay of Bengal: Bio-Argo subsurface observations. *Deep Sea Research Part I: Oceanographic Research Papers*, **124**, 66-72, <http://dx.doi.org/10.1016/j.dsr.2017.04.010>
- Chakraborty, K., N. Kumar, and G. V. M. Gupta, 2017: Getting the right wind-forcing for an ecosystem model: A case study from the eastern Arabian Sea. *Journal of Operational Oceanography*, **10**, 176-190, <http://dx.doi.org/10.1080/1755876X.2017.1354686>
- Chambers, D. P., A. Cazenave, N. Champollion, H. Dieng, W. Llovel, R. Forsberg, K. von Schuckmann, and Y. Wada, 2017: Evaluation of the Global Mean Sea Level Budget between 1993 and 2014. *Surveys in Geophysics*, **38**, 309-327, <http://dx.doi.org/10.1007/s10712-016-9381-3>
- Chand, C. P., M. V. Rao, B. Prasad Kumar, and K. H. Rao, 2017: Influence of cyclone Phailin on the Upper Ocean over Bay of Bengal. *International Journal of Applied Environmental Sciences*, **12**, 717-729, http://www.ripublication.com/ijaes17/ijaesv12n5_01.pdf

- Chandanpurkar, H. A., J. T. Reager, J. S. Famiglietti, and T. H. Syed, 2017: Satellite- and Reanalysis-Based Mass Balance Estimates of Global Continental Discharge (1993–2015). *Journal of Climate*, **30**, 8481–8495, <https://doi.org/10.1175/JCLI-D-16-0708.1>
- Chao, Y., J. D. Farrara, E. Bjorkstedt, F. Chai, F. Chavez, D. L. Rudnick, W. Enright, J. L. Fisher, W. T. Peterson, G. F. Welch, C. O. Davis, R. C. Dugdale, F. P. Wilkerson, H. Zhang, Y. Zhang, and E. Ateljevich, 2017: The origins of the anomalous warming in the California coastal ocean and San Francisco Bay during 2014–2016. *Journal of Geophysical Research: Oceans*, **122**, 7537–7557, <http://dx.doi.org/10.1002/2017JC013120>
- Chapman, C. and A. A. Charantonis, 2017: Reconstruction of Subsurface Velocities From Satellite Observations Using Iterative Self-Organizing Maps. *IEEE Geoscience and Remote Sensing Letters*, **14**, 617–620, <http://dx.doi.org/10.1109/LGRS.2017.2665603>
- Chapman, C. and J.-B. Sallée, 2017: Isopycnal Mixing Suppression by the Antarctic Circumpolar Current and the Southern Ocean Meridional Overturning Circulation. *Journal of Physical Oceanography*, **47**, 2023–2045, <https://doi.org/10.1175/JPO-D-16-0263.1>
- Chapman, C. and J.-B. Sallée, 2017: Can we reconstruct mean and eddy fluxes from Argo floats? *Ocean Modelling*, **120**, 83–100, <http://www.sciencedirect.com/science/article/pii/S1463500317301488>
- Charria, G., S. Theetten, F. Vandermeirsch, Ö. Yelekçi, and N. Audiffren, 2017: Interannual evolution of (sub)mesoscale dynamics in the Bay of Biscay. *Ocean Sci.*, **13**, 777–797, <https://doi.org/10.5194/os-13-777-2017>
- Chassignet, E. P. and X. Xu, 2017: Impact of Horizontal Resolution (1/12° to 1/50°) on Gulf Stream Separation, Penetration, and Variability. *Journal of Physical Oceanography*, **47**, 1999–2021, <https://doi.org/10.1175/JPO-D-17-0031.1>
- Chen, G., L. Peng, and C. Ma, 2017: Climatology and seasonality of upper ocean salinity: a three-dimensional view from argo floats. *Climate Dynamics*, <https://doi.org/10.1007/s00382-017-3742-6>
- Chen, J., X. You, Y. Xiao, R. Zhang, G. Wang, and S. Bao, 2017: A performance evaluation of remotely sensed sea surface salinity products in combination with other surface measurements in reconstructing three-dimensional salinity fields. *Acta Oceanologica Sinica*, **36**, 15–31, <https://doi.org/10.1007/s13131-017-1079-y>
- Chen, J. L., C. R. Wilson, B. D. Tapley, H. Save, and J.-F. Cretaux, 2017: Long-term and seasonal Caspian Sea level change from satellite gravity and altimeter measurements. *Journal of Geophysical Research: Solid Earth*, **122**, 2274–2290, <http://dx.doi.org/10.1002/2016JB013595>
- Chen, S., J. A. Cummings, J. M. Schmidt, E. R. Sanabia, and S. R. Jayne, 2017: Targeted ocean sampling guidance for tropical cyclones. *Journal of Geophysical Research: Oceans*, **122**, 3505–3518, <http://dx.doi.org/10.1002/2017JC012727>
- Chen, X., Z. Liu, C. Sun, and H. Wang, 2017: Comparison of TMI and AMSR-E sea surface temperatures with Argo near-surface temperatures over the global oceans. *Acta Oceanologica Sinica*, **36**, 52–59, <http://dx.doi.org/10.1007/s13131-017-1040-0>
- Chen, X., X. Zhang, J. A. Church, C. S. Watson, M. A. King, D. Monselesan, B. Legresy, and C.

- Harig, 2017: The increasing rate of global mean sea-level rise during 1993-2014. *Nature Clim. Change*, **7**, 492-495, <http://dx.doi.org/10.1038/nclimate3325>
- Cheng, L., K. E. Trenberth, J. Fasullo, T. Boyer, J. Abraham, and J. Zhu, 2017: Improved estimates of ocean heat content from 1960 to 2015. *Science Advances*, **3**, <http://dx.doi.org/10.1126/sciadv.1601545>
- Chen, Y., K. Yu, C. Dong, Z. He, Y. Yan, and D. Wang, 2017: Evaluation of Satellite-Altimetry-Derived Pycnocline Depth Products in the South China Sea. *Remote Sensing*, **9**, 822, <https://doi.org/10.3390/rs9080822>
- Cheng, Y.-H., C.-R. Ho, Q. Zheng, B. Qiu, J. Hu, and N.-J. Kuo, 2017: Statistical features of eddies approaching the Kuroshio east of Taiwan Island and Luzon Island. *Journal of Oceanography*, **73**, 427-438, <https://doi.org/10.1007/s10872-017-0411-7>
- Chi, J., P. Shi, W. Zhuang, X. Lin, X. Cheng, and Y. Du, 2017: Heat budget of the western Pacific warm pool and the contribution of eddy heat transport diagnosed from HYCOM assimilation. *Journal of Oceanography*, **73**, 193-203, <http://dx.doi.org/10.1007/s10872-016-0396-7>
- Chow, C. H., W. Cheah, and J.-H. Tai, 2017: A rare and extensive summer bloom enhanced by ocean eddies in the oligotrophic western North Pacific Subtropical Gyre. *Scientific Reports*, **7**, 6199, <https://dx.doi.org/10.1038%2Fs41598-017-06584-3>
- Chow, C. H., Y.-h. Tseng, H.-H. Hsu, and C.-C. Young, 2017: Interannual variability of the subtropical countercurrent eddies in the North Pacific associated with the Western-Pacific teleconnection pattern. *Continental Shelf Research*, **143**, 175-184, <http://dx.doi.org/10.1016/j.csr.2016.08.006>
- Chu, X., C. Dong, and Y. Qi, 2017: The influence of ENSO on an oceanic eddy pair in the South China Sea. *Journal of Geophysical Research: Oceans*, **122**, 1643-1652, <http://dx.doi.org/10.1002/2016JC012642>
- Cipollone, A., S. Masina, A. Storto, and D. Iovino, 2017: Benchmarking the mesoscale variability in global ocean eddy-permitting numerical systems. *Ocean Dynamics*, **67**, 1313-1333, <https://doi.org/10.1007/s10236-017-1089-5>
- Clementi, E., P. Oddo, M. Drudi, N. Pinardi, G. Korres, and A. Grandi, 2017: Coupling hydrodynamic and wave models: first step and sensitivity experiments in the Mediterranean Sea. *Ocean Dynamics*, **67**, 1293-1312, <https://doi.org/10.1007/s10236-017-1087-7>
- Conroy, J. L., D. M. Thompson, K. M. Cobb, D. Noone, S. Rea, and A. N. Legrande, 2017: Spatiotemporal variability in the $\delta^{18}\text{O}$ -salinity relationship of seawater across the tropical Pacific Ocean. *Paleoceanography*, **32**, 484-497, <http://dx.doi.org/10.1002/2016PA003073>
- Coppola, L., L. Prieur, I. Taupier-Letage, C. Estournel, P. Testor, D. Lefevre, S. Belamari, S. LeReste, and V. Taillandier, 2017: Observation of oxygen ventilation into deep waters through targeted deployment of multiple Argo-O₂ floats in the north-western Mediterranean Sea in 2013. *Journal of Geophysical Research: Oceans*, **122**, 6325-6341, <http://dx.doi.org/10.1002/2016JC012594>
- Corbett, C. M., B. Subrahmanyam, and B. S. Giese, 2017: A comparison of sea surface salinity in the equatorial Pacific Ocean during the 1997-1998, 2012-2013, and 2014-2015 ENSO events. *Climate Dynamics*, **49**, 3513-3526,

- <https://doi.org/10.1007/s00382-017-3527-y>
- Costa, V. S., G. N. Mill, M. Gabioux, G. S. Grossmann-Matheson, and A. M. Paiva, 2017: The recirculation of the intermediate western boundary current at the Tubarão Bight – Brazil. *Deep Sea Research Part I: Oceanographic Research Papers*, **120**, 48-60, <http://doi.org/10.1016/j.dsr.2016.12.001>
- Courtois, P., X. Hu, C. Pennelly, P. Spence, and P. G. Myers, 2017: Mixed layer depth calculation in deep convection regions in ocean numerical models. *Ocean Modelling*, **120**, 60-78, <https://doi.org/10.1016/j.ocemod.2017.10.007>
- Craig, P. M., D. Ferreira, and J. Methven, 2017: The contrast between Atlantic and Pacific surface water fluxes. *Tellus A: Dynamic Meteorology and Oceanography*, **69**, 1330454, <http://dx.doi.org/10.1080/16000870.2017.1330454>
- Cravatte, S., E. Kestenare, F. Marin, P. Dutrieux, and E. Firing, 2017: Subthermocline and Intermediate Zonal Currents in the Tropical Pacific Ocean: Paths and Vertical Structure. *Journal of Physical Oceanography*, **47**, 2305-2324, <https://doi.org/10.1175/JPO-D-17-0043.1>
- Daneshgar Asl, S., D. S. Dukhovskoy, M. Bourassa, and I. R. MacDonald, 2017: Hindcast modeling of oil slick persistence from natural seeps. *Remote Sensing of Environment*, **189**, 96-107, <http://doi.org/10.1016/j.rse.2016.11.003>
- de Boissésou, E., M. A. Balmaseda, and M. Mayer, 2017: Ocean heat content variability in an ensemble of twentieth century ocean reanalyses. *Climate Dynamics*, <https://doi.org/10.1007/s00382-017-3845-0>
- Desbruyères, D., E. L. McDonagh, B. A. King, and V. Thierry, 2017: Global and Full-Depth Ocean Temperature Trends during the Early Twenty-First Century from Argo and Repeat Hydrography. *Journal of Climate*, **30**, 1985-1997, <http://dx.doi.org/10.1175/jcli-d-16-0396.1>
- Dieng, H. B., A. Cazenave, B. Meyssignac, and M. Ablain, 2017: New estimate of the current rate of sea level rise from a sea level budget approach. *Geophysical Research Letters*, **44**, 3744-3751, <http://dx.doi.org/10.1002/2017GL073308>
- Dieng, H. B., A. Cazenave, B. Meyssignac, K. von Schuckmann, and H. Palanisamy, 2017: Sea and land surface temperatures, ocean heat content, Earth's energy imbalance and net radiative forcing over the recent years. *International Journal of Climatology*, **37**, 218-229, <http://dx.doi.org/10.1002/joc.4996>
- Doi, T., A. Storto, S. K. Behera, A. Navarra, and T. Yamagata, 2017: Improved Prediction of the Indian Ocean Dipole Mode by Use of Subsurface Ocean Observations. *Journal of Climate*, **30**, 7953-7970, <https://doi.org/10.1175/JCLI-D-16-0915.1>
- Dong, D., P. Brandt, P. Chang, F. Schütte, X. Yang, J. Yan, and J. Zeng, 2017: Mesoscale Eddies in the Northwestern Pacific Ocean: Three-Dimensional Eddy Structures and Heat/Salt Transports. *Journal of Geophysical Research: Oceans*, **122**, 9795-9813, <http://dx.doi.org/10.1002/2017JC013303>
- Dong, J., R. Domingues, G. Goni, G. Halliwell, H.-S. Kim, S.-K. Lee, M. Mehari, F. Bringas, J. Morell, and L. Pomales, 2017: Impact of Assimilating Underwater Glider Data on Hurricane Gonzalo (2014) Forecasts. *Weather and Forecasting*, **32**, 1143-1159, <http://dx.doi.org/10.1175/waf-d-16-0182.1>
- Dong, S., D. Volkov, G. Goni, R. Lumpkin, and G. R. Foltz, 2017: Near-surface salinity and

- temperature structure observed with dual-sensor drifters in the subtropical South Pacific. *Journal of Geophysical Research: Oceans*, **122**, 5952-5969, <http://dx.doi.org/10.1002/2017JC012894>
- Dorofeev, V. L. and L. I. Sukhikh, 2017: Study of long-term variability of Black Sea dynamics on the basis of circulation model assimilation of remote measurements. *Izvestiya, Atmospheric and Oceanic Physics*, **53**, 224-232, <https://doi.org/10.1134/S0001433817020025>
- Dufois, F., N. J. Hardman-Mountford, M. Fernandes, B. Wojtasiewicz, D. Shenoy, D. Slawinski, M. Gauns, J. Greenwood, and R. Toresen, 2017: Observational insights into chlorophyll distributions of subtropical South Indian Ocean eddies. *Geophysical Research Letters*, **44**, 3255-3264, <http://dx.doi.org/10.1002/2016GL072371>
- Dunphy, M., A. L. Ponte, P. Klein, and S. L. Gentil, 2017: Low-Mode Internal Tide Propagation in a Turbulent Eddy Field. *Journal of Physical Oceanography*, **47**, 649-665, <http://dx.doi.org/10.1175/jpo-d-16-0099.1>
- Durski, S. M., J. A. Barth, J. C. McWilliams, H. Frenzel, and C. Deutsch, 2017: The influence of variable slope-water characteristics on dissolved oxygen levels in the northern California Current System. *Journal of Geophysical Research: Oceans*, **122**, 7674-7697, <http://dx.doi.org/10.1002/2017JC013089>
- Evans, D. G., J. Toole, G. Forget, J. D. Zika, A. C. N. Garabato, A. J. G. Nurser, and L. Yu, 2017: Recent Wind-Driven Variability in Atlantic Water Mass Distribution and Meridional Overturning Circulation. *Journal of Physical Oceanography*, **47**, 633-647, <http://dx.doi.org/10.1175/jpo-d-16-0089.1>
- Eveleth, R., N. Cassar, S. C. Doney, D. R. Munro, and C. Sweeney, 2017: Biological and physical controls on O₂/Ar, Ar and pCO₂ variability at the Western Antarctic Peninsula and in the Drake Passage. *Deep Sea Research Part II: Topical Studies in Oceanography*, **139**, 77-88, <http://dx.doi.org/10.1016/j.dsr2.2016.05.002>
- Falina, A., A. Sarafanov, E. Özsoy, and U. Utku Turunçoğlu, 2017: Observed basin-wide propagation of Mediterranean water in the Black Sea. *Journal of Geophysical Research: Oceans*, **122**, 3141-3151, <http://dx.doi.org/10.1002/2017JC012729>
- Fasullo, J. T. and P. R. Gent, 2017: On the Relationship between Regional Ocean Heat Content and Sea Surface Height. *Journal of Climate*, **30**, 9195-9211, <https://doi.org/10.1175/JCLI-D-16-0920.1>
- Fathrio, I., S. Iizuka, A. Manda, Y.-M. Kodama, S. Ishida, Q. Moteki, H. Yamada, and Y. Tachibana, 2017: Assessment of western Indian Ocean SST bias of CMIP5 models. *Journal of Geophysical Research: Oceans*, **122**, 3123-3140, <http://dx.doi.org/10.1002/2016JC012443>
- Fenty, I., D. Menemenlis, and H. Zhang, 2017: Global coupled sea ice-ocean state estimation. *Climate Dynamics*, **49**, 931-956, <https://doi.org/10.1007/s00382-015-2796-6>
- Fernandez, D., P. Sutton, and M. Bowen, 2017: Variability of the subtropical mode water in the Southwest Pacific. *Journal of Geophysical Research: Oceans*, **122**, 7163-7180, <http://dx.doi.org/10.1002/2017JC013011>
- Filyushkin, B. N., K. V. Lebedev, and N. G. Kozhelupova, 2017: Detection of Intermediate Mediterranean Waters in the Atlantic Ocean by ARGO Floats Data. *Oceanology*, **57**, 763-771, <https://doi.org/10.1134/S0001437017060042>

- Flynn, K. R., M. R. Fewings, C. Gotschalk, and K. Lombardo, 2017: Large-scale anomalies in sea-surface temperature and air-sea fluxes during wind relaxation events off the United States West Coast in summer. *Journal of Geophysical Research: Oceans*, **122**, 2574-2594, <http://dx.doi.org/10.1002/2016JC012613>
- Foppert, A., K. A. Donohue, D. R. Watts, and K. L. Tracey, 2017: Eddy heat flux across the Antarctic Circumpolar Current estimated from sea surface height standard deviation. *Journal of Geophysical Research: Oceans*, **122**, 6947-6964, <http://dx.doi.org/10.1002/2017JC012837>
- Fournier, S., D. Vandemark, L. Gaultier, T. Lee, B. Jonsson, and M. M. Gierach, 2017: Interannual Variation in Offshore Advection of Amazon-Orinoco Plume Waters: Observations, Forcing Mechanisms, and Impacts. *Journal of Geophysical Research: Oceans*, **122**, 8966-8982, <http://dx.doi.org/10.1002/2017JC013103>
- Fournier, S., J. Vialard, M. Lengaigne, T. Lee, M. M. Gierach, and A. V. S. Chaitanya, 2017: Modulation of the Ganges-Brahmaputra River Plume by the Indian Ocean Dipole and Eddies Inferred From Satellite Observations. *Journal of Geophysical Research: Oceans*, **122**, 9591-9604, <http://dx.doi.org/10.1002/2017JC013333>
- Frajka-Williams, E., C. Beaulieu, and A. Duchez, 2017: Emerging negative Atlantic Multidecadal Oscillation index in spite of warm subtropics. *Scientific Reports*, **7**, 11224, <https://doi.org/10.1038/s41598-017-11046-x>
- Friedman, A. R., G. Reverdin, M. Khodri, and G. Gastineau, 2017: A new record of Atlantic sea surface salinity from 1896 to 2013 reveals the signatures of climate variability and long-term trends. *Geophysical Research Letters*, **44**, 1866-1876, <http://dx.doi.org/10.1002/2017GL072582>
- Fujii, Y., H. Tsujino, T. Toyoda, and H. Nakano (2017), Enhancement of the southward return flow of the Atlantic Meridional Overturning Circulation by data assimilation and its influence in an assimilative ocean simulation forced by CORE-II atmospheric forcing, *Climate Dynamics*, 49(3), 869-889, doi: <https://doi.org/10.1007/s00382-015-2780-1>.
- Furue, R., K. Guerreiro, H. E. Phillips, J. Julian P. McCreary, and N. L. Bindoff, 2017: On the Leeuwin Current System and Its Linkage to Zonal Flows in the South Indian Ocean as Inferred from a Gridded Hydrography. *Journal of Physical Oceanography*, **47**, 583-602, <http://dx.doi.org/10.1175/jpo-d-16-0170.1>
- Gao, C. and R.-H. Zhang, 2017: The roles of atmospheric wind and entrained water temperature (T_e) in the second-year cooling of the 2010–12 La Niña event. *Climate Dynamics*, **48**, 597-617, <http://dx.doi.org/10.1007/s00382-016-3097-4>
- Garcia-Eidell, C., J. C. Comiso, E. Dinnat, and L. Brucker, 2017: Satellite observed salinity distributions at high latitudes in the Northern Hemisphere: A comparison of four products. *Journal of Geophysical Research: Oceans*, **122**, 7717-7736, <http://dx.doi.org/10.1002/2017JC013184>
- García-Ladona, E., 2017: Currents in the Western Mediterranean Basin. *Atlas of Bedforms in the Western Mediterranean*, J. Guillén, J. Acosta, F. L. Chiocci, and A. Palanques, Eds., Springer International Publishing, 41-47, https://doi.org/10.1007/978-3-319-33940-5_8.
- Gasparin, F. and D. Roemmich, 2017: The seasonal march of the equatorial Pacific upper-ocean and its El Niño variability. *Progress in Oceanography*, **156**, 1-16,

- <http://dx.doi.org/10.1016/j.pocean.2017.05.010>
- Gasser, M., J. L. Pelegrí, M. Emelianov, M. Bruno, E. Gràcia, M. Pastor, H. Peters, Á. Rodríguez-Santana, J. Salvador, and R. F. Sánchez-Leal, 2017: Tracking the Mediterranean outflow in the Gulf of Cadiz. *Progress in Oceanography*, **157**, 47-71, <https://doi.org/10.1016/j.pocean.2017.05.015>
- Germe, A., F. Sévellec, J. Mignot, D. Swingedouw, and S. Nguyen, 2017: On the robustness of near term climate predictability regarding initial state uncertainties. *Climate Dynamics*, **48**, 353-366, <http://dx.doi.org/10.1007/s00382-016-3078-7>
- Giglio, D. and G. C. Johnson, 2017: Middepth decadal warming and freshening in the South Atlantic. *Journal of Geophysical Research: Oceans*, **122**, 973-979, <http://dx.doi.org/10.1002/2016JC012246>
- Giordani, H., C. Lebeaupin-Brossier, F. Léger, and G. Caniaux, 2017: A PV-approach for dense water formation along fronts: Application to the Northwestern Mediterranean. *Journal of Geophysical Research: Oceans*, **122**, 995-1015, <http://dx.doi.org/10.1002/2016JC012019>
- González-Gambau, V., E. Olmedo, J. Martínez, A. Turiel, and I. Durán, 2017: Improvements on Calibration and Image Reconstruction of SMOS for Salinity Retrievals in Coastal Regions. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **PP**, 1-15, <https://doi.org/10.1109/JSTARS.2017.2685690>
- Good, S. A., 2017: The impact of observational sampling on time series of global 0–700 m ocean average temperature: a case study. *International Journal of Climatology*, **37**, 2260-2268, <http://dx.doi.org/10.1002/joc.4654>
- Gordon, A. L., E. Shroyer, and V. S. N. Murty, 2017: An Intrathermocline Eddy and a tropical cyclone in the Bay of Bengal. *Scientific Reports*, **7**, 46218, <http://dx.doi.org/10.1038/srep46218>
- Grodsky, S. A., N. Reul, B. Chapron, J. A. Carton, and F. O. Bryan, 2017: Interannual surface salinity on Northwest Atlantic shelf. *Journal of Geophysical Research: Oceans*, **122**, 3638-3659, <http://dx.doi.org/10.1002/2016JC012580>
- Groeskamp, S., B. M. Sloyan, J. D. Zika, and T. J. McDougall, 2017: Mixing Inferred from an Ocean Climatology and Surface Fluxes. *Journal of Physical Oceanography*, **47**, 667-687, <http://dx.doi.org/10.1175/jpo-d-16-0125.1>
- Guan, S., Z. Liu, J. Song, Y. Hou, and L. Feng, 2017: Upper ocean response to Super Typhoon Tembin (2012) explored using multiplatform satellites and Argo float observations. *International Journal of Remote Sensing*, **38**, 5150-5167, <http://dx.doi.org/10.1080/01431161.2017.1335911>
- Guimbard, S., N. Reul, B. Chapron, M. Umbert, and C. Maes, 2017: Seasonal and interannual variability of the Eastern Tropical Pacific Fresh Pool. *Journal of Geophysical Research: Oceans*, **122**, 1749-1771, <http://dx.doi.org/10.1002/2016JC012130>
- Guo, L., P. Xiu, F. Chai, H. Xue, D. Wang, and J. Sun, 2017: Enhanced Chlorophyll Concentrations Induced by Kuroshio Intrusion Fronts in the Northern South China Sea. *Geophysical Research Letters*, **44**, 11,565-11,572, <http://dx.doi.org/10.1002/2017GL075336>
- Haëntjens, N., E. Boss, and L. D. Talley, 2017: Revisiting Ocean Color algorithms for chlorophyll a and particulate organic carbon in the Southern Ocean using

- biogeochemical floats. *Journal of Geophysical Research: Oceans*, **122**, 6583-6593, <http://dx.doi.org/10.1002/2017JC012844>
- Hahn, J., P. Brandt, S. Schmidtko, and G. Krahnmann, 2017: Decadal oxygen change in the eastern tropical North Atlantic. *Ocean Sci.*, **13**, 551-576, <https://www.ocean-sci.net/13/551/2017/>
- Halliwell, G. R., M. Mehari, L. K. Shay, V. H. Kourafalou, H. Kang, H. S. Kim, J. Dong, and R. Atlas, 2017: OSSE quantitative assessment of rapid-response prestorm ocean surveys to improve coupled tropical cyclone prediction. *Journal of Geophysical Research: Oceans*, **122**, 5729-5748, <http://dx.doi.org/10.1002/2017JC012760>
- Halliwell, G. R., M. F. Mehari, M. Le Hénaff, V. H. Kourafalou, I. S. Androulidakis, H. S. Kang, and R. Atlas, 2017: North Atlantic Ocean OSSE system: Evaluation of operational ocean observing system components and supplemental seasonal observations for potentially improving tropical cyclone prediction in coupled systems. *Journal of Operational Oceanography*, **10**, 154-175, <http://dx.doi.org/10.1080/1755876X.2017.1322770>
- Hausfather, Z., K. Cowtan, D. C. Clarke, P. Jacobs, M. Richardson, and R. Rohde, 2017: Assessing recent warming using instrumentally homogeneous sea surface temperature records. *Science Advances*, **3**, <http://dx.doi.org/10.1126/sciadv.1601207>
- Hausmann, U., D. J. McGillicuddy, and J. Marshall, 2017: Observed mesoscale eddy signatures in Southern Ocean surface mixed-layer depth. *Journal of Geophysical Research: Oceans*, **122**, 617-635, <http://dx.doi.org/10.1002/2016JC012225>
- Hedemann, C., T. Mauritsen, J. Jungclaus, and J. Marotzke, 2017: The subtle origins of surface-warming hiatuses. *Nature Clim. Change*, **7**, 336-339, <http://dx.doi.org/10.1038/nclimate3274>
- Hernawan, U. E., K.-j. van Dijk, G. A. Kendrick, M. Feng, E. Biffin, P. S. Lavery, and K. McMahon, 2017: Historical processes and contemporary ocean currents drive genetic structure in the seagrass *Thalassia hemprichii* in the Indo-Australian Archipelago. *Molecular Ecology*, **26**, 1008-1021, <https://doi.org/10.1111/mec.13966>
- Holte, J. and F. Straneo, 2017: Seasonal Overturning of the Labrador Sea as Observed by Argo Floats. *Journal of Physical Oceanography*, **47**, 2531-2543, <https://doi.org/10.1175/JPO-D-17-0051.1>
- Holte, J., L. D. Talley, J. Gilson, and D. Roemmich, 2017: An Argo mixed layer climatology and database. *Geophysical Research Letters*, **44**, 5618-5626, <http://dx.doi.org/10.1002/2017GL073426>
- Honda, M. C., M. Wakita, K. Matsumoto, T. Fujiki, E. Siswanto, K. Sasaoka, H. Kawakami, Y. Mino, C. Sukigara, M. Kitamura, Y. Sasai, S. L. Smith, T. Hashioka, C. Yoshikawa, K. Kimoto, S. Watanabe, T. Kobari, T. Nagata, K. Hamasaki, R. Kaneko, M. Uchimiya, H. Fukuda, O. Abe, and T. Saino, 2017: Comparison of carbon cycle between the western Pacific subarctic and subtropical time-series stations: highlights of the K2S1 project. *Journal of Oceanography*, **73**, 647-667, <https://doi.org/10.1007/s10872-017-0423-3>
- Horvat, C., D. R. Jones, S. Iams, D. Schroeder, D. Flocco, and D. Feltham, 2017: The frequency and extent of sub-ice phytoplankton blooms in the Arctic Ocean. *Science Advances*, **3**, <http://dx.doi.org/10.1126/sciadv.1601191>

- Houssard, P., A. Lorrain, L. Tremblay-Boyer, V. Allain, B. S. Graham, C. E. Menkes, H. Pethybridge, L. I. E. Couturier, D. Point, B. Leroy, A. Receveur, B. P. V. Hunt, E. Vourey, S. Bonnet, M. Rodier, P. Raimbault, E. Feunteun, P. M. Kuhnert, J.-M. Munaron, B. Lebreton, T. Otake, and Y. Letourneur, 2017: Trophic position increases with thermocline depth in yellowfin and bigeye tuna across the Western and Central Pacific Ocean. *Progress in Oceanography*, **154**, 49-63, <http://dx.doi.org/10.1016/j.pocean.2017.04.008>
- Hsu, C.-W. and I. Velicogna, 2017: Detection of sea level fingerprints derived from GRACE gravity data. *Geophysical Research Letters*, **44**, 8953-8961, <http://dx.doi.org/10.1002/2017GL074070>
- Hu, S. and J. Sprintall, 2017: Observed strengthening of interbasin exchange via the Indonesian seas due to rainfall intensification. *Geophysical Research Letters*, **44**, 1448-1456, <http://dx.doi.org/10.1002/2016GL072494>
- Huang, A., H. Li, R. L. Srivier, A. V. Fedorov, and C. M. Brierley, 2017: Regional variations in the ocean response to tropical cyclones: Ocean mixing versus low cloud suppression. *Geophysical Research Letters*, **44**, 1947-1955, <http://dx.doi.org/10.1002/2016GL072023>
- Huang, B., P. W. Thorne, V. F. Banzon, T. Boyer, G. Chepurin, J. H. Lawrimore, M. J. Menne, T. M. Smith, R. S. Vose, and H.-M. Zhang, 2017: Extended Reconstructed Sea Surface Temperature, Version 5 (ERSSTv5): Upgrades, Validations, and Intercomparisons. *Journal of Climate*, **30**, 8179-8205, <https://doi.org/10.1175/JCLI-D-16-0836.1>
- Huang, H.-C., J. Boucharel, I. I. Lin, F.-F. Jin, C.-C. Lien, and I.-F. Pun, 2017: Air-sea fluxes for Hurricane Patricia (2015): Comparison with supertyphoon Haiyan (2013) and under different ENSO conditions. *Journal of Geophysical Research: Oceans*, **122**, 6076-6089, <http://dx.doi.org/10.1002/2017JC012741>
- Huang, L., H. Zhao, J. Pan, and A. Devlin, 2017: Remote sensing observations of phytoplankton increases triggered by successive typhoons. *Frontiers of Earth Science*, **11**, 601-608, <https://doi.org/10.1007/s11707-016-0608-x>
- Huang, X., Z. Zhang, X. Zhang, H. Qian, W. Zhao, and J. Tian, 2017: Impacts of a Mesoscale Eddy Pair on Internal Solitary Waves in the Northern South China Sea revealed by Mooring Array Observations. *Journal of Physical Oceanography*, **47**, 1539-1554, <http://dx.doi.org/10.1175/jpo-d-16-0111.1>
- Igarashi, H., T. Ichii, M. Sakai, Y. Ishikawa, T. Toyoda, S. Masuda, N. Sugiura, K. Mahapatra, and T. Awaji, 2017: Possible link between interannual variation of neon flying squid (*Ommastrephes bartramii*) abundance in the North Pacific and the climate phase shift in 1998/1999. *Progress in Oceanography*, **150**, 20-34, <http://doi.org/10.1016/j.pocean.2015.03.008>
- Inoue, R., M. Watanabe, and S. Osafune, 2017: Wind-Induced Mixing in the North Pacific. *Journal of Physical Oceanography*, **47**, 1587-1603, <http://dx.doi.org/10.1175/jpo-d-16-0218.1>
- Ishii, M., Y. Fukuda, S. Hirahara, S. Yasui, T. Suzuki, and K. Sato, 2017: Accuracy of Global Upper Ocean Heat Content Estimation Expected from Present Observational Data Sets. *SOLA*, **13**, 163-167, <https://doi.org/10.2151/sola.2017-030>
- Jain, V., D. Shankar, P. N. Vinayachandran, A. Kankonkar, A. Chatterjee, P. Amol, A. M.

- Almeida, G. S. Michael, A. Mukherjee, M. Chatterjee, R. Fernandes, R. Luis, A. Kamble, A. K. Hegde, S. Chatterjee, U. Das, and C. P. Neema, 2017: Evidence for the existence of Persian Gulf Water and Red Sea Water in the Bay of Bengal. *Climate Dynamics*, **48**, 3207-3226, <https://doi.org/10.1007/s00382-016-3259-4>
- Janeiro, J., A. Neves, F. Martins, and P. Relvas, 2017: Integrating technologies for oil spill response in the SW Iberian coast. *Journal of Marine Systems*, **173**, 31-42, <https://doi.org/10.1016/j.jmarsys.2017.04.005>
- Jangid, B. P., S. Prakash, M. T. Bushair, and R. Kumar, 2017: Adding value to INSAT-3D sea surface temperature fields using MODIS data over the tropical Indian Ocean. *Remote Sensing Letters*, **8**, 458-467, <http://dx.doi.org/10.1080/2150704X.2017.1280201>
- Jayne, S. R., D. Roemmich, N. V. Zilberman, S. C. Riser, K. S. Johnson, G. C. Johnson, and S. R. Piotrowicz, 2017: The Argo Program: Present and Future. *Oceanography*, **30**, 18-28, <http://dx.doi.org/10.5670/oceanog.2017.213>
- Jia, F., D. Hu, S. Hu, and J. Feng, 2017: Niño4 as a Key Region for the Interannual Variability of the Western Pacific Warm Pool. *Journal of Geophysical Research: Oceans*, **122**, 9299-9314, <http://dx.doi.org/10.1002/2017JC013208>
- Jiang, Y., Y. Gou, T. Zhang, K. Wang, and C. Hu, 2017: A Machine Learning Approach to Argo Data Analysis in a Thermocline. *Sensors*, **17**, 2225, <https://doi.org/10.3390/s17102225>
- Johnson, G. C. and A. N. Birnbaum, 2017: As El Niño builds, Pacific Warm Pool expands, ocean gains more heat. *Geophysical Research Letters*, **44**, 438-445, <http://dx.doi.org/10.1002/2016GL071767>
- Johnson, G. C. and J. M. Lyman, 2017: Global Ocean: Sea Surface Salinity in the State of the Climate in 2016. *Bull. Am. Meteorol. Soc.*, **98**, S71-S72, <https://doi.org/10.1175/2017BAMSStateoftheClimate.1>
- Johnson, G. C., J. M. Lyman, T. Boyer, C. M. Domingues, J. Gilson, M. Ishii, R. Killick, D. Monselesan, and S. Wijffels, 2017: Global Oceans: Ocean heat content in State of the Climate in 2016. *Bull. Am. Meteorol. Soc.*, **98**, S66-S69, <https://doi.org/10.1175/2017BAMSStateoftheClimate.1>
- Johnson, G. C., J. Reagan, J. M. Lyman, T. Boyer, C. Schmid, and R. Locarnini, 2017: Global Ocean: Salinity in the State of the Climate in 2016. *Bull. Am. Meteorol. Soc.*, **98**, S69-S71, <https://doi.org/10.1175/2017BAMSStateoftheClimate.1>
- Johnson, G. C. and P. J. Stabeno, 2017: Deep Bering Sea Circulation and Variability, 2001–2016, From Argo Data. *Journal of Geophysical Research: Oceans*, **122**, 9765-9779, <http://dx.doi.org/10.1002/2017JC013425>
- Johnson, K. S., 2017: Developing chemical sensors to observe the health of the global ocean. *2017 19th International Conference on Solid-State Sensors, Actuators and Microsystems (TRANSDUCERS)*, 10-15, <https://doi.org/10.1109/TRANSDUCERS.2017.7993975>
- Johnson, K. S., J. N. Plant, L. J. Coletti, H. W. Jannasch, C. M. Sakamoto, S. C. Riser, D. D. Swift, N. L. Williams, E. Boss, N. Haëntjens, L. D. Talley, and J. L. Sarmiento, 2017: Biogeochemical sensor performance in the SOCCOM profiling float array. *Journal of Geophysical Research: Oceans*, **122**, 6416-6436, <http://dx.doi.org/10.1002/2017JC012838>

- Johnson, K. S., J. N. Plant, J. P. Dunne, L. D. Talley, and J. L. Sarmiento, 2017: Annual nitrate drawdown observed by SOCCOM profiling floats and the relationship to annual net community production. *Journal of Geophysical Research: Oceans*, **122**, 6668-6683, <http://dx.doi.org/10.1002/2017JC012839>
- Johnson, S. J., A. Turner, S. Woolnough, G. Martin, and C. MacLachlan, 2017: An assessment of Indian monsoon seasonal forecasts and mechanisms underlying monsoon interannual variability in the Met Office GloSea5-GC2 system. *Climate Dynamics*, **48**, 1447-1465, <http://dx.doi.org/10.1007/s00382-016-3151-2>
- Jordà, G., K. Von Schuckmann, S. A. Josey, G. Caniaux, J. García-Lafuente, S. Sammartino, E. Özsoy, J. Polcher, G. Notarstefano, P. M. Poulain, F. Adloff, J. Salat, C. Naranjo, K. Schroeder, J. Chiggiato, G. Sannino, and D. Macías, 2017: The Mediterranean Sea heat and mass budgets: Estimates, uncertainties and perspectives. *Progress in Oceanography*, **156**, 174-208, <https://doi.org/10.1016/j.pocean.2017.07.001>
- Kakatkar, R., C. Gnanaseelan, J. S. Chowdary, A. Parekh, and J. S. Deepa, 2017: Indian summer monsoon rainfall variability during 2014 and 2015 and associated Indo-Pacific upper ocean temperature patterns. *Theoretical and Applied Climatology*, <https://doi.org/10.1007/s00704-017-2046-4>
- Kamenkovich, I., A. Haza, A. R. Gray, C. O. Dufour, and Z. Garraffo, 2017: Observing System Simulation Experiments for an array of autonomous biogeochemical profiling floats in the Southern Ocean. *Journal of Geophysical Research: Oceans*, **122**, 7595-7611, <http://dx.doi.org/10.1002/2017JC012819>
- Kamidaira, Y., Y. Uchiyama, and S. Mitarai, 2017: Eddy-induced transport of the Kuroshio warm water around the Ryukyu Islands in the East China Sea. *Continental Shelf Research*, **143**, 206-218, <http://dx.doi.org/10.1016/j.csr.2016.07.004>
- Karmakar, A., A. Parekh, J. S. Chowdary, and C. Gnanaseelan, 2017: Inter comparison of Tropical Indian Ocean features in different ocean reanalysis products. *Climate Dynamics*, <https://doi.org/10.1007/s00382-017-3910-8>
- Karnauskas, K. B., G. C. Johnson, and R. Murtugudde, 2017: On the climate impacts of atolls in the central equatorial Pacific. *International Journal of Climatology*, **37**, 197-203, <http://dx.doi.org/10.1002/joc.4697>
- Karspeck, A. R., D. Stammer, A. Köhl, G. Danabasoglu, M. Balmaseda, D. M. Smith, Y. Fujii, S. Zhang, B. Giese, H. Tsujino, and A. Rosati, 2017: Comparison of the Atlantic meridional overturning circulation between 1960 and 2007 in six ocean reanalysis products. *Climate Dynamics*, **49**, 957-982, <https://doi.org/10.1007/s00382-015-2787-7>
- Karstensen, J., F. Schütte, A. Pietri, G. Krahnmann, B. Fiedler, D. Grundle, H. Hauss, A. Körtzinger, C. R. Löscher, P. Testor, N. Vieira, and M. Visbeck, 2017: Upwelling and isolation in oxygen-depleted anticyclonic modewater eddies and implications for nitrate cycling. *Biogeosciences*, **14**, 2167-2181, <https://doi.org/10.5194/bg-14-2167-2017>
- KASSIS, D., G. KORRES, A. KONSTANTINIDOU, and L. PERIVOLIOTIS, 2017: Comparison of high resolution hydrodynamic model outputs with in-situ Argo profiles in the Ionian Sea. *Mediterranean Marine Science*, **18**, 16, <http://dx.doi.org/10.12681/mms.1753>
- Katsumata, K., 2017: Eddies Observed by Argo Floats. Part II: Form Stress and Streamline

- Length in the Southern Ocean. *Journal of Physical Oceanography*, **47**, 2237-2250, <https://doi.org/10.1175/JPO-D-17-0072.1>
- Keerthi, M. G., M. Lengaigne, M. Levy, J. Vialard, V. Parvathi, C. de Boyer Montégut, C. Ethé, O. Aumont, I. Suresh, V. P. Akhil, and P. M. Muraleedharan, 2017: Physical control of interannual variations of the winter chlorophyll bloom in the northern Arabian Sea. *Biogeosciences*, **14**, 3615-3632, <https://doi.org/10.5194/bg-14-3615-2017>
- Kenchington, E., I. Yashayaev, O. S. Tendal, and H. Jørgensbye, 2017: Water mass characteristics and associated fauna of a recently discovered *Lophelia pertusa* (Scleractinia: Anthozoa) reef in Greenlandic waters. *Polar Biology*, **40**, 321-337, <http://dx.doi.org/10.1007/s00300-016-1957-3>
- Kent, E. C., J. J. Kennedy, T. M. Smith, S. Hirahara, B. Huang, A. Kaplan, D. E. Parker, C. P. Atkinson, D. I. Berry, G. Carella, Y. Fukuda, M. Ishii, P. D. Jones, F. Lindgren, C. J. Merchant, S. Morak-Bozzo, N. A. Rayner, V. Venema, S. Yasui, and H.-M. Zhang, 2017: A Call for New Approaches to Quantifying Biases in Observations of Sea Surface Temperature. *Bulletin of the American Meteorological Society*, **98**, 1601-1616, <https://doi.org/10.1175/BAMS-D-15-00251.1>
- Kessouri, F., C. Ulses, C. Estournel, P. Marsaleix, T. Severin, M. Pujo-Pay, J. Caparros, P. Raimbault, O. Pasqueron de Fommervault, F. D'Ortenzio, V. Taillandier, P. Testor, and P. Conan, 2017: Nitrogen and Phosphorus Budgets in the Northwestern Mediterranean Deep Convection Region. *Journal of Geophysical Research: Oceans*, **122**, 9429-9454, <http://dx.doi.org/10.1002/2016JC012665>
- Kido, S. and T. Tozuka, 2017: Salinity Variability Associated with the Positive Indian Ocean Dipole and Its Impact on the Upper Ocean Temperature. *Journal of Climate*, **30**, 7885-7907, <https://doi.org/10.1175/JCLI-D-17-0133.1>
- Kidwell, A., L. Han, Y.-H. Jo, and X.-H. Yan, 2017: Decadal Western Pacific Warm Pool Variability: A Centroid and Heat Content Study. *Scientific Reports*, **7**, 13141, <https://doi.org/10.1038/s41598-017-13351-x>
- Kim, D., Y. Choi, T.-W. Kim, and G.-H. Park, 2017: Recent increase in surface fCO₂ in the western subtropical North Pacific. *Ocean Science Journal*, **52**, 329-335, <https://doi.org/10.1007/s12601-017-0030-7>
- Kim, D., J.-H. Jeong, T.-W. Kim, J. H. Noh, H. J. Kim, D. H. Choi, E. Kim, and D. Jeon, 2017: The reduction in the biomass of cyanobacterial N₂ fixer and the biological pump in the Northwestern Pacific Ocean. *Scientific Reports*, **7**, 41810, <http://dx.doi.org/10.1038/srep41810>
- Kleinherenbrink, M., R. Riva, T. Frederikse, M. Merrifield, and Y. Wada, 2017: Trends and interannual variability of mass and steric sea level in the Tropical Asian Seas. *Journal of Geophysical Research: Oceans*, **122**, 6254-6276, <http://dx.doi.org/10.1002/2017JC012792>
- Kobayashi, T., H. Kawamura, K. Fujii, and Y. Kamidaira, 2017: Development of a short-term emergency assessment system of the marine environmental radioactivity around Japan. *Journal of Nuclear Science and Technology*, **54**, 609-616, <http://dx.doi.org/10.1080/00223131.2017.1286272>
- Koelling, J., D. W. R. Wallace, U. Send, and J. Karstensen, 2017: Intense oceanic uptake of oxygen during 2014–2015 winter convection in the Labrador Sea. *Geophysical*

- Research Letters*, **44**, 7855-7864, <http://dx.doi.org/10.1002/2017GL073933>
- KOKKINI, Z., R. GERIN, P. M. POULAIN, E. MAURI, Z. PASARIĆ, I. JANEKOVIĆ, M. PASARIĆ, H. MIHANOVIĆ, and I. VILIBIĆ, 2017: A multiplatform investigation of Istrian Front dynamics (north Adriatic Sea) in winter 2015. *Mediterranean Marine Science*, **18**, 11, <http://dx.doi.org/10.12681/mms.1895>
- Kouketsu, S., S. Osafune, Y. Kumamoto, and H. Uchida, 2017: Eastward salinity anomaly propagation in the intermediate layer of the North Pacific. *Journal of Geophysical Research: Oceans*, **122**, 1590-1607, <http://dx.doi.org/10.1002/2016JC012118>
- Krishnamurti, T. N., S. Jana, R. Krishnamurti, V. Kumar, R. Deepa, F. Papa, M. A. Bourassa, and M. M. Ali, 2017: Monsoonal intraseasonal oscillations in the ocean heat content over the surface layers of the Bay of Bengal. *Journal of Marine Systems*, **167**, 19-32, <http://doi.org/10.1016/j.jmarsys.2016.11.002>
- Kumar, A., C. Wen, Y. Xue, and H. Wang, 2017: Sensitivity of Subsurface Ocean Temperature Variability to Specification of Surface Observations in the Context of ENSO. *Monthly Weather Review*, **145**, 1437-1446, <http://dx.doi.org/10.1175/mwr-d-16-0432.1>
- Kunze, E., 2017: Internal-Wave-Driven Mixing: Global Geography and Budgets. *Journal of Physical Oceanography*, **47**, 1325-1345, <http://dx.doi.org/10.1175/jpo-d-16-0141.1>
- Kuo, Y.-C., Z.-W. Zheng, Q. Zheng, G. Gopalakrishnan, C.-Y. Lee, S.-W. Chern, and Y.-H. Chao, 2017: Typhoon induced summer cold shock advected by Kuroshio off eastern Taiwan. *Ocean Modelling*, **109**, 1-10, <http://dx.doi.org/10.1016/j.ocemod.2016.11.003>
- Kurapov, A. L., N. A. Pelland, and D. L. Rudnick, 2017: Seasonal and interannual variability in along-slope oceanic properties off the US West Coast: Inferences from a high-resolution regional model. *Journal of Geophysical Research: Oceans*, **122**, 5237-5259, <http://dx.doi.org/10.1002/2017JC012721>
- L'Heureux, M. L., K. Takahashi, A. B. Watkins, A. G. Barnston, E. J. Becker, T. E. D. Liberto, F. Gamble, J. Gottschalck, M. S. Halpert, B. Huang, K. Mosquera-Vásquez, and A. T. Wittenberg, 2017: Observing and Predicting the 2015/16 El Niño. *Bulletin of the American Meteorological Society*, **98**, 1363-1382, <https://doi.org/10.1175/BAMS-D-16-0009.1>
- Lacour, L., M. Ardyna, K. F. Stec, H. Claustre, L. Prieur, A. Poteau, M. R. D'Alcala, and D. Iudicone, 2017: Unexpected winter phytoplankton blooms in the North Atlantic subpolar gyre. *Nature Geoscience*, **10**, 836, <http://dx.doi.org/10.1038/ngeo3035>
- Langlais, C. E., A. Lenton, R. Matear, D. Monselesan, B. Legresy, E. Cougnon, and S. Rintoul, 2017: Stationary Rossby waves dominate subduction of anthropogenic carbon in the Southern Ocean. *Scientific Reports*, **7**, 17076, <https://doi.org/10.1038/s41598-017-17292-3>
- Le Bras, I. A., I. Yashayaev, and J. M. Toole, 2017: Tracking Labrador Sea Water property signals along the Deep Western Boundary Current. *Journal of Geophysical Research: Oceans*, **122**, 5348-5366, <http://dx.doi.org/10.1002/2017JC012921>
- Lebeaupin Brossier, C., F. Léger, H. Giordani, J. Beuvier, M.-N. Bouin, V. Ducrocq, and N. Fourrié, 2017: Dense water formation in the north-western Mediterranean area during HyMeX-SOP2 in 1/36° ocean simulations: Ocean-atmosphere coupling impact. *Journal of Geophysical Research: Oceans*, **122**, 5749-5773, <http://dx.doi.org/10.1002/2016JC012526>

- Lecomte, O., H. Goosse, T. Fichefet, C. de Lavergne, A. Barthélemy, and V. Zunz, 2017: Vertical ocean heat redistribution sustaining sea-ice concentration trends in the Ross Sea. *Nature Communications*, **8**, 258, <https://doi.org/10.1038/s41467-017-00347-4>
- Lehahn, Y., I. Koren, S. Sharoni, F. d'Ovidio, A. Vardi, and E. Boss, 2017: Dispersion/dilution enhances phytoplankton blooms in low-nutrient waters. *Nature Communications*, **8**, 14868, <http://dx.doi.org/10.1038/ncomms14868>
- Li, C., Z. Zhang, W. Zhao, and J. Tian, 2017: A statistical study on the subthermocline submesoscale eddies in the northwestern Pacific Ocean based on Argo data. *Journal of Geophysical Research: Oceans*, **122**, 3586-3598, <http://dx.doi.org/10.1002/2016JC012561>
- Li, D., T.-L. Chiang, S.-J. Kao, Y.-C. Hsin, L.-W. Zheng, J.-Y. T. Yang, S.-C. Hsu, C.-R. Wu, and M. Dai, 2017: Circulation and oxygenation of the glacial South China Sea. *Journal of Asian Earth Sciences*, **138**, 387-398, <http://doi.org/10.1016/j.jseaes.2017.02.017>
- Li, F., M. S. Lozier, and W. E. Johns, 2017: Calculating the Meridional Volume, Heat, and Freshwater Transports from an Observing System in the Subpolar North Atlantic: Observing System Simulation Experiment. *Journal of Atmospheric and Oceanic Technology*, **34**, 1483-1500, <http://dx.doi.org/10.1175/jtech-d-16-0247.1>
- Li, H., F. Xu, W. Zhou, D. Wang, J. S. Wright, Z. Liu, and Y. Lin, 2017: Development of a global gridded Argo data set with Barnes successive corrections. *Journal of Geophysical Research: Oceans*, **122**, 866-889, <http://dx.doi.org/10.1002/2016JC012285>
- Li, L., R. W. Schmitt, and C. C. Ummenhofer, 2017: The role of the subtropical North Atlantic water cycle in recent US extreme precipitation events. *Climate Dynamics*, <https://doi.org/10.1007/s00382-017-3685-y>
- Li, Q. and B. Fox-Kemper, 2017: Assessing the Effects of Langmuir Turbulence on the Entrainment Buoyancy Flux in the Ocean Surface Boundary Layer. *Journal of Physical Oceanography*, **47**, 2863-2886, <https://doi.org/10.1175/JPO-D-17-0085.1>
- Li, Q., B. Fox-Kemper, Ø. Breivik, and A. Webb, 2017: Statistical models of global Langmuir mixing. *Ocean Modelling*, **113**, 95-114, <http://doi.org/10.1016/j.ocemod.2017.03.016>
- Li, Q. and S. Lee, 2017: A Mechanism of Mixed Layer Formation in the Indo-Western Pacific Southern Ocean: Preconditioning by an Eddy-Driven Jet-Scale Overturning Circulation. *Journal of Physical Oceanography*, **47**, 2755-2772, <https://doi.org/10.1175/JPO-D-17-0006.1>
- Li, Y., W. Han, M. Ravichandran, W. Wang, T. Shinoda, and T. Lee, 2017: Bay of Bengal salinity stratification and Indian summer monsoon intraseasonal oscillation: 1. Intraseasonal variability and causes. *Journal of Geophysical Research: Oceans*, **122**, 4291-4311, <http://dx.doi.org/10.1002/2017JC012691>
- Li, Y., W. Han, W. Wang, M. Ravichandran, T. Lee, and T. Shinoda, 2017: Bay of Bengal salinity stratification and Indian summer monsoon intraseasonal oscillation: 2. Impact on SST and convection. *Journal of Geophysical Research: Oceans*, **122**, 4312-4328, <http://dx.doi.org/10.1002/2017JC012692>
- Li, Y. and R. Toumi, 2017: A balanced Kalman filter ocean data assimilation system with application to the South Australian Sea. *Ocean Modelling*, **116**, 159-172, <http://dx.doi.org/10.1016/j.ocemod.2017.06.007>
- Li, Z.-L. and P. Wen, 2017: Comparison between the response of the Northwest Pacific

- Ocean and the South China Sea to Typhoon Megi (2010). *Advances in Atmospheric Sciences*, **34**, 79-87, <http://dx.doi.org/10.1007/s00376-016-6027-9>
- Liang, X., C. G. Piecuch, R. M. Ponte, G. Forget, C. Wunsch, and P. Heimbach, 2017: Change of the Global Ocean Vertical Heat Transport over 1993–2010. *Journal of Climate*, **30**, 5319–5327, <https://doi.org/10.1175/JCLI-D-16-0569.1>
- Liang, X., M. Spall, and C. Wunsch, 2017: Global Ocean Vertical Velocity From a Dynamically Consistent Ocean State Estimate. *Journal of Geophysical Research: Oceans*, **122**, 8208–8224, <http://dx.doi.org/10.1002/2017JC012985>
- Liao, X., Y. Du, H. Zhan, T. Wang, and M. Feng, 2017: Wintertime Phytoplankton Blooms in the Western Equatorial Indian Ocean Associated With the Madden-Julian Oscillation. *Journal of Geophysical Research: Oceans*, **122**, 9855–9869, <http://dx.doi.org/10.1002/2017JC013203>
- Lim, Y.-K., R. M. Kovach, S. Pawson, and G. Vernieres, 2017: The 2015/16 El Niño Event in Context of the MERRA-2 Reanalysis: A Comparison of the Tropical Pacific with 1982/83 and 1997/98. *Journal of Climate*, **30**, 4819–4842, <http://dx.doi.org/10.1175/jcli-d-16-0800.1>
- Lin, S., W.-Z. Zhang, S.-P. Shang, and H.-S. Hong, 2017: Ocean response to typhoons in the western North Pacific: Composite results from Argo data. *Deep Sea Research Part I: Oceanographic Research Papers*, **123**, 62–74, <http://dx.doi.org/10.1016/j.dsr.2017.03.007>
- Liu, C., S.-P. Xie, P. Li, L. Xu, and W. Gao, 2017: Climatology and decadal variations in multicore structure of the North Pacific subtropical mode water. *Journal of Geophysical Research: Oceans*, **122**, 7506–7520, <http://dx.doi.org/10.1002/2017JC013071>
- Liu, L., S. Peng, and R. X. Huang, 2017: Reconstruction of ocean's interior from observed sea surface information. *Journal of Geophysical Research: Oceans*, **122**, 1042–1056, <http://dx.doi.org/10.1002/2016JC011927>
- Liu, S.-S., L. Sun, Q. Wu, and Y.-J. Yang, 2017: The responses of cyclonic and anticyclonic eddies to typhoon forcing: The vertical temperature-salinity structure changes associated with the horizontal convergence/divergence. *Journal of Geophysical Research: Oceans*, **122**, 4974–4989, <http://dx.doi.org/10.1002/2017JC012814>
- Liu, X., T. Wu, S. Yang, T. Li, W. Jie, L. Zhang, Z. Wang, X. Liang, Q. Li, Y. Cheng, H. Ren, Y. Fang, and S. Nie, 2017: MJO prediction using the sub-seasonal to seasonal forecast model of Beijing Climate Center. *Climate Dynamics*, **48**, 3283–3307, <http://dx.doi.org/10.1007/s00382-016-3264-7>
- Liu, Z., X. Chen, C. Sun, X. Wu, and S. Lu, 2017: A comparison of Argo nominal surface and near-surface temperature for validation of AMSR-E SST. *Chinese Journal of Oceanology and Limnology*, **35**, 712–721, <http://dx.doi.org/10.1007/s00343-017-5330-3>
- Liu, Z., Q. Lian, F. Zhang, L. Wang, M. Li, X. Bai, J. Wang, and F. Wang, 2017: Weak Thermocline Mixing in the North Pacific Low-Latitude Western Boundary Current System. *Geophysical Research Letters*, **44**, 10,530–10,539, <http://dx.doi.org/10.1002/2017GL075210>
- Liu, Z., X. Wu, J. Xu, H. Li, S. Lu, C. Sun, and M. Cao, 2017: China Argo project: progress in

- China Argo ocean observations and data applications. *Acta Oceanologica Sinica*, 1-11, <http://dx.doi.org/10.1007/s13131-017-1035-x>
- Logan, P. D. and G. C. Johnson, 2017: Zonal evolution of Alaskan Stream structure and transport quantified with Argo data. *Journal of Geophysical Research: Oceans*, **122**, 821-833, <http://dx.doi.org/10.1002/2016JC012302>
- Lopez, H., G. Goni, and S. Dong, 2017: A reconstructed South Atlantic Meridional Overturning Circulation time series since 1870. *Geophysical Research Letters*, **44**, 3309-3318, <http://dx.doi.org/10.1002/2017GL073227>
- Lozier, M. S., S. Bacon, A. S. Bower, S. A. Cunningham, M. F. d. Jong, L. d. Steur, B. deYoung, J. Fischer, S. F. Gary, B. J. W. Greenan, P. Heimbach, N. P. Holliday, L. Houpert, M. E. Inall, W. E. Johns, H. L. Johnson, J. Karstensen, F. Li, X. Lin, N. Mackay, D. P. Marshall, H. Mercier, P. G. Myers, R. S. Pickart, H. R. Pillar, F. Straneo, V. Thierry, R. A. Weller, R. G. Williams, C. Wilson, J. Yang, J. Zhao, and J. D. Zika, 2017: Overturning in the Subpolar North Atlantic Program: A New International Ocean Observing System. *Bulletin of the American Meteorological Society*, **98**, 737-752, <http://dx.doi.org/10.1175/bams-d-16-0057.1>
- Lu, W., X.-H. Yan, L. Han, and Y. Jiang, 2017: One-dimensional ocean model with three types of vertical velocities: a case study in the South China Sea. *Ocean Dynamics*, **67**, 253-262, <http://dx.doi.org/10.1007/s10236-016-1029-9>
- Luecke, C. A., B. K. Arbic, S. L. Bassette, J. G. Richman, J. F. Shriver, M. H. Alford, O. M. Smedstad, P. G. Timko, D. S. Trossman, and A. J. Wallcraft, 2017: The Global Mesoscale Eddy Available Potential Energy Field in Models and Observations. *Journal of Geophysical Research: Oceans*, **122**, 9126-9143, <http://dx.doi.org/10.1002/2017JC013136>
- Lyu, K., X. Zhang, J. A. Church, J. Hu, and J.-Y. Yu, 2017: Distinguishing the Quasi-Decadal and Multidecadal Sea Level and Climate Variations in the Pacific: Implications for the ENSO-Like Low-Frequency Variability. *Journal of Climate*, **30**, 5097-5117, <https://doi.org/10.1175/JCLI-D-17-0004.1>
- MacIntosh, C. R., C. J. Merchant, and K. von Schuckmann, 2017: Uncertainties in Steric Sea Level Change Estimation During the Satellite Altimeter Era: Concepts and Practices. *Surveys in Geophysics*, **38**, 59-87, <http://dx.doi.org/10.1007/s10712-016-9387-x>
- MacKinnon, J. A., Z. Zhao, C. B. Whalen, A. F. Waterhouse, D. S. Trossman, O. M. Sun, L. C. S. Laurent, H. L. Simmons, K. Polzin, R. Pinkel, A. Pickering, N. J. Norton, J. D. Nash, R. Musgrave, L. M. Merchant, A. V. Melet, B. Mater, S. Legg, W. G. Large, E. Kunze, J. M. Klymak, M. Jochum, S. R. Jayne, R. W. Hallberg, S. M. Griffies, S. Diggs, G. Danabasoglu, E. P. Chassignet, M. C. Buijsman, F. O. Bryan, B. P. Briegleb, A. Barna, B. K. Arbic, J. K. Ansong, and M. H. Alford, 2017: Climate Process Team on Internal Wave-Driven Ocean Mixing. *Bulletin of the American Meteorological Society*, **98**, 2429-2454, <https://doi.org/10.1175/BAMS-D-16-0030.1>
- Magalhães, F. C., J. L. L. Azevedo, and L. R. Oliveira, 2017: Energetics of eddy-mean flow interactions in the Brazil current between 20°S and 36°S. *Journal of Geophysical Research: Oceans*, **122**, 6129-6146, <http://dx.doi.org/10.1002/2016JC012609>
- Mahapatra, D. K. and A. D. Rao, 2017: Redistribution of low-salinity pools off east coast of India during southwest monsoon season. *Estuarine, Coastal and Shelf Science*, **184**,

- 21-29, <http://dx.doi.org/10.1016/j.ecss.2016.10.037>
- Mancero-Mosquera, I., P. M. Poulain, R. Gerin, E. Mauri, D. Hayes, P. Testor, and L. Mortier, 2017: Analysis of frequency content of temperature glider data via Fourier and wavelet transforms. *Bollettino di Geofisica Teorica ed Applicata*, **58**, 137-156,
- Marsh, R., I. D. Haigh, S. A. Cunningham, M. E. Inall, M. Porter, and B. I. Moat, 2017: Large-scale forcing of the European Slope Current and associated inflows to the North Sea. *Ocean Science*, **13**, 315-335, <https://doi.org/10.5194/os-13-315-2017>
- Masina, S., A. Storto, N. Ferry, M. Valdivieso, K. Haines, M. Balmaseda, H. Zuo, M. Drevillon, and L. Parent, 2017: An ensemble of eddy-permitting global ocean reanalyses from the MyOcean project. *Climate Dynamics*, **49**, 813-841, <https://doi.org/10.1007/s00382-015-2728-5>
- Mason, E., A. Pascual, P. Gaube, S. Ruiz, J. L. Pelegrí, and A. Delepouille, 2017: Subregional characterization of mesoscale eddies across the Brazil-Malvinas Confluence. *Journal of Geophysical Research: Oceans*, **122**, 3329-3357, <http://dx.doi.org/10.1002/2016JC012611>
- Mastropole, D., R. S. Pickart, H. Valdimarsson, K. Våge, K. Jochumsen, and J. Girton, 2017: On the hydrography of Denmark Strait. *Journal of Geophysical Research: Oceans*, **122**, 306-321, <http://dx.doi.org/10.1002/2016JC012007>
- Maúre, E. R., J. Ishizaka, C. Sukigara, Y. Mino, H. Aiki, T. Matsuno, H. Tomita, J. I. Goes, and H. R. Gomes, 2017: Mesoscale Eddies Control the Timing of Spring Phytoplankton Blooms: A Case Study in the Japan Sea. *Geophysical Research Letters*, **44**, 11,115-11,124, <http://dx.doi.org/10.1002/2017GL074359>
- Mayot, N., F. D'Ortenzio, V. Taillandier, L. Prieur, O. P. de Fommervault, H. Claustre, A. Bosse, P. Testor, and P. Conan, 2017: Physical and Biogeochemical Controls of the Phytoplankton Blooms in North Western Mediterranean Sea: A Multiplatform Approach Over a Complete Annual Cycle (2012–2013 DEWEX Experiment). *Journal of Geophysical Research: Oceans*, **122**, 9999-10019, <http://dx.doi.org/10.1002/2016JC012052>
- Mayot, N., F. D'Ortenzio, J. Uitz, B. Gentili, J. Ras, V. Vellucci, M. Golbol, D. Antoine, and H. Claustre, 2017: Influence of the Phytoplankton Community Structure on the Spring and Annual Primary Production in the Northwestern Mediterranean Sea. *Journal of Geophysical Research: Oceans*, **122**, 9918-9936, <http://dx.doi.org/10.1002/2016JC012668>
- Maze, G., H. Mercier, R. Fablet, P. Tandeo, M. Lopez Radcenco, P. Lenca, C. Feucher, and C. Le Goff, 2017: Coherent heat patterns revealed by unsupervised classification of Argo temperature profiles in the North Atlantic Ocean. *Progress in Oceanography*, **151**, 275-292, <http://doi.org/10.1016/j.pocean.2016.12.008>
- Mecking, J. V., S. S. Drijfhout, L. C. Jackson, and M. B. Andrews, 2017: The effect of model bias on Atlantic freshwater transport and implications for AMOC bi-stability. *Tellus A: Dynamic Meteorology and Oceanography*, **69**, 1299910, <http://dx.doi.org/10.1080/16000870.2017.1299910>
- Medhaug, I., M. B. Stolpe, E. M. Fischer, and R. Knutti, 2017: Reconciling controversies about the 'global warming hiatus'. *Nature*, **545**, 41-47, <http://dx.doi.org/10.1038/nature22315>

- Meinen, C. S., S. L. Garzoli, R. C. Perez, E. Campos, A. R. Piola, M. P. Chidichimo, S. Dong, and O. T. Sato, 2017: Characteristics and causes of Deep Western Boundary Current transport variability at 34.5° S during 2009–2014. *Ocean Science*, **13**, 175-194, <https://doi.org/10.5194/os-13-175-2017>
- Meissner, T., L. Ricciardulli, and F. J. Wentz, 2017: Capability of the SMAP Mission to Measure Ocean Surface Winds in Storms. *Bulletin of the American Meteorological Society*, **98**, 1660-1677, <https://doi.org/10.1175/BAMS-D-16-0052.1>
- Melzer, B. A. and B. Subrahmanyam, 2017: Decadal changes in salinity in the oceanic subtropical gyres. *Journal of Geophysical Research: Oceans*, **122**, 336-354, <http://dx.doi.org/10.1002/2016JC012243>
- Melzer, B. A. and B. Subrahmanyam, 2017: Evaluation of GRACE Mascon Gravity Solution in Relation to Interannual Oceanic Water Mass Variations. *IEEE Transactions on Geoscience and Remote Sensing*, **55**, 907-914, <http://dx.doi.org/10.1109/TGRS.2016.2616760>
- Meredith, M. P., J. L. Sarmiento, K. S. Johnson, and E. L. McDonagh, 2017: Advances in Understanding the Southern Ocean's Role in Global Climate: The Orchestra and SOCCOM Programs in the State of the Climate in 2016. *Bull. Am. Meteorol. Soc.*, **98**, S168-S169, <https://doi.org/10.1175/2017BAMSStateoftheClimate.1>
- Meyer, I., L. Braby, M. Krug, and B. Backeberg, 2017: Mapping the Ocean Current Strength and Persistence in the Agulhas to Inform Marine Energy Development. *Marine Renewable Energy: Resource Characterization and Physical Effects*, Z. Yang and A. Copping, Eds., Springer International Publishing, 179-215, https://doi.org/10.1007/978-3-319-53536-4_8.
- Meyssignac, B., C. G. Piecuch, C. J. Merchant, M.-F. Racault, H. Palanisamy, C. MacIntosh, S. Sathyendranath, and R. Brewin, 2017: Causes of the Regional Variability in Observed Sea Level, Sea Surface Temperature and Ocean Colour Over the Period 1993–2011. *Surveys in Geophysics*, **38**, 187-215, <http://dx.doi.org/10.1007/s10712-016-9383-1>
- Mikaelyan, A. S., V. K. Chasovnikov, A. A. Kubryakov, and S. V. Stanichny, 2017: Phenology and drivers of the winter–spring phytoplankton bloom in the open Black Sea: The application of Sverdrup's hypothesis and its refinements. *Progress in Oceanography*, **151**, 163-176, <http://doi.org/10.1016/j.pocean.2016.12.006>
- Mogensen, K. S., L. Magnusson, and J.-R. Bidlot, 2017: Tropical cyclone sensitivity to ocean coupling in the ECMWF coupled model. *Journal of Geophysical Research: Oceans*, **122**, 4392-4412, <http://dx.doi.org/10.1002/2017JC012753>
- Mogollón, R. and P. H. R. Calil, 2017: On the effects of ENSO on ocean biogeochemistry in the Northern Humboldt Current System (NHCS): A modeling study. *Journal of Marine Systems*, **172**, 137-159, <https://doi.org/10.1016/j.jmarsys.2017.03.011>
- Monerie, P.-A., L. Coquart, É. Maisonnave, M.-P. Moine, L. Terray, and S. Valcke, 2017: Decadal prediction skill using a high-resolution climate model. *Climate Dynamics*, **49**, 3527-3550, <https://doi.org/10.1007/s00382-017-3528-x>
- Moore, A. M., M. G. Jacox, W. J. Crawford, B. Laughlin, C. A. Edwards, and J. Fiechter, 2017: The impact of the ocean observing system on estimates of the California current circulation spanning three decades. *Progress in Oceanography*, **156**, 41-60, <http://dx.doi.org/10.1016/j.pocean.2017.05.009>

- Morris, T., J. Hermes, L. Beal, M. du Plessis, C. Duncombe Rae, M. Gulekana, T. Lamont, S. Speich, M. Roberts, and I. ansorge, 2017: The importance of monitoring the Greater Agulhas Current and its inter-ocean exchanges using large mooring arrays. *South African Journal of Science*, **113**, <http://dx.doi.org/10.17159/sajs.2017/20160330>
- Morrow, R. and E. Kestenare, 2017: 22-year surface salinity changes in the Seasonal Ice Zone near 140°E off Antarctica. *Journal of Marine Systems*, **175**, 46-62, <https://doi.org/10.1016/j.jmarsys.2017.07.003>
- Mukhopadhyay, S., D. Shankar, S. G. Aparna, and A. Mukherjee, 2017: Observations of the sub-inertial, near-surface East India Coastal Current. *Continental Shelf Research*, **148**, 159-177, <https://doi.org/10.1016/j.csr.2017.08.020>
- Nagano, A., T. Hasegawa, I. Ueki, and K. Ando, 2017: El Niño–Southern Oscillation-time scale covariation of sea surface salinity and freshwater flux in the western tropical and northern subtropical Pacific. *Geophysical Research Letters*, **44**, 6895-6903, <http://dx.doi.org/10.1002/2017GL073573>
- Narvekar, J., J. R. D'Mello, S. Prasanna Kumar, P. Banerjee, V. Sharma, and P. Shenai-Tirodkar, 2017: Winter-time variability of the eastern Arabian Sea: A comparison between 2003 and 2013. *Geophysical Research Letters*, **44**, 6269-6277, <http://dx.doi.org/10.1002/2017GL072965>
- Ngodock, H., M. Carrier, S. Smith, and I. Souopgui, 2017: Weak and Strong Constraints Variational Data Assimilation with the NCOM-4DVAR in the Agulhas Region Using the Representer Method. *Monthly Weather Review*, **145**, 1755-1764, <http://dx.doi.org/10.1175/mwr-d-16-0264.1>
- Ohishi, S., T. Tozuka, and M. F. Cronin, 2017: Frontogenesis in the Agulhas Return Current Region Simulated by a High-Resolution CGCM. *Journal of Physical Oceanography*, **47**, 2691-2710, <https://doi.org/10.1175/JPO-D-17-0038.1>
- Ok, H., Y. Noh, and Y. Choi, 2017: Influence of Pycnocline Smoothing and Subgrid-Scale Variability of Density Profiles on the Determination of Mixed Layer Depth. *Journal of Atmospheric and Oceanic Technology*, **34**, 2083-2101, <https://doi.org/10.1175/JTECH-D-17-0016.1>
- Oka, E., S. Katsura, H. Inoue, A. Kojima, M. Kitamoto, T. Nakano, and T. Suga, 2017: Long-term change and variation of salinity in the western North Pacific subtropical gyre revealed by 50-year long observations along 137°E. *Journal of Oceanography*, **73**, 479-490, <https://doi.org/10.1007/s10872-017-0416-2>
- Olita, A., A. Capet, M. Claret, A. Mahadevan, P. M. Poulain, A. Ribotti, S. Ruiz, J. Tintoré, A. Tovar-Sánchez, and A. Pascual, 2017: Frontal dynamics boost primary production in the summer stratified Mediterranean sea. *Ocean Dynamics*, **67**, 767-782, <https://doi.org/10.1007/s10236-017-1058-z>
- Oliver, E. C. J., J. A. Benthuisen, N. L. Bindoff, A. J. Hobday, N. J. Holbrook, C. N. Mundy, and S. E. Perkins-Kirkpatrick, 2017: The unprecedented 2015/16 Tasman Sea marine heatwave. *Nat Commun*, **8**, 16101, <http://dx.doi.org/10.1038/ncomms16101>
- Olmedo, E., J. Martínez, A. Turiel, J. Ballabrera-Poy, and M. Portabella, 2017: Debiased non-Bayesian retrieval: A novel approach to SMOS Sea Surface Salinity. *Remote Sensing of Environment*, **193**, 103-126, <http://dx.doi.org/10.1016/j.rse.2017.02.023>
- Olsen, A., 2017: Autonomous observing platform CO2 data shed new light on the Southern

- Ocean carbon cycle. *Global Biogeochemical Cycles*, **31**, 1032-1035,
<http://dx.doi.org/10.1002/2017GB005676>
- Organelli, E., M. Barbieux, H. Claustre, C. Schmechtig, A. Poteau, A. Bricaud, E. Boss, N. Briggs, G. Dall'Olmo, F. D'Ortenzio, E. Leymarie, A. Mangin, G. Obolensky, C. Penkerch, L. Prieur, C. Roesler, R. Serra, J. Uitz, and X. Xing, 2017: Two databases derived from BGC-Argo float measurements for marine biogeochemical and bio-optical applications. *Earth Syst. Sci. Data*, **9**, 861-880,
<https://doi.org/10.5194/essd-9-861-2017>
- Organelli, E., H. Claustre, A. Bricaud, M. Barbieux, J. Uitz, F. D'Ortenzio, and G. Dall'Olmo, 2017: Bio-optical anomalies in the world's oceans: An investigation on the diffuse attenuation coefficients for downward irradiance derived from Biogeochemical Argo float measurements. *Journal of Geophysical Research: Oceans*, **122**, 3543-3564,
<http://dx.doi.org/10.1002/2016JC012629>
- Ortega, P., E. Guilyardi, D. Swingedouw, J. Mignot, and S. Nguyen, 2017: Reconstructing extreme AMOC events through nudging of the ocean surface: a perfect model approach. *Climate Dynamics*, **49**, 3425-3441,
<https://doi.org/10.1007/s00382-017-3521-4>
- Oruba, L., S. Planes, G. Siu, Y. Chancerelle, and E. Dormy, 2017: Rapid Oceanic Response to Tropical Cyclone Oli (2010) over the South Pacific. *Journal of Physical Oceanography*, **47**, 471-483, <http://dx.doi.org/10.1175/jpo-d-16-0205.1>
- Pabortsava, K., R. S. Lampitt, J. Benson, C. Crowe, R. McLachlan, F. A. C. Le Moigne, C. Mark Moore, C. Pebody, P. Provost, A. P. Rees, G. H. Tilstone, and E. M. S. Woodward, 2017: Carbon sequestration in the deep Atlantic enhanced by Saharan dust. *Nature Geosci*, **10**, 189-194, <http://dx.doi.org/10.1038/ngeo2899>
- Paiva, P. M., J. Lugon Junior, A. N. Barreto, J. A. F. Silva, and A. J. Silva Neto, 2017: Comparing 3d and 2d computational modeling of an oil well blowout using MOHID platform - A case study in the Campos Basin. *Science of The Total Environment*, **595**, 633-641,
<http://dx.doi.org/10.1016/j.scitotenv.2017.04.007>
- Palmer, M. D., 2017: Reconciling Estimates of Ocean Heating and Earth's Radiation Budget. *Current Climate Change Reports*, **3**, 78-86,
<http://dx.doi.org/10.1007/s40641-016-0053-7>
- Palmer, M. D., C. D. Roberts, M. Balmaseda, Y.-S. Chang, G. Chepurin, N. Ferry, Y. Fujii, S. A. Good, S. Guinehut, K. Haines, F. Hernandez, A. Köhl, T. Lee, M. J. Martin, S. Masina, S. Masuda, K. A. Peterson, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, O. Wang, and Y. Xue, 2017: Ocean heat content variability and change in an ensemble of ocean reanalyses. *Climate Dynamics*, **49**, 909-930,
<https://doi.org/10.1007/s00382-015-2801-0>
- Pan, C., M. Jiang, F. R. Dalglish, and J. K. Reed, 2017: Modeling the impacts of the Loop Current on circulation and water properties over the Pulley Ridge region on the Southwest Florida shelf. *Ocean Modelling*, **112**, 48-64,
<http://doi.org/10.1016/j.ocemod.2017.02.009>
- Pascual, A., S. Ruiz, A. Olita, C. Troupin, M. Claret, B. Casas, B. Mourre, P.-M. Poulain, A. Tovar-Sanchez, A. Capet, E. Mason, J. T. Allen, A. Mahadevan, and J. Tintoré, 2017: A Multiplatform Experiment to Unravel Meso- and Submesoscale Processes in an

- Intense Front (AlborEx). *Frontiers in Marine Science*, **4**,
<http://dx.doi.org/10.3389/fmars.2017.00039>
- Patil, K. and M. C. Deo, 2017: Prediction of daily sea surface temperature using efficient neural networks. *Ocean Dynamics*, **67**, 357-368,
<http://dx.doi.org/10.1007/s10236-017-1032-9>
- Pauthenet, E., F. Roquet, G. Madec, and D. Nerini, 2017: A Linear Decomposition of the Southern Ocean Thermohaline Structure. *Journal of Physical Oceanography*, **47**, 29-47, <http://dx.doi.org/10.1175/JPO-D-16-0083.1>
- Pearson, B., B. Fox-Kemper, S. Bachman, and F. Bryan, 2017: Evaluation of scale-aware subgrid mesoscale eddy models in a global eddy-rich model. *Ocean Modelling*, **115**, 42-58, <http://dx.doi.org/10.1016/j.ocemod.2017.05.007>
- Pellichero, V., J.-B. Sallée, S. Schmidtko, F. Roquet, and J.-B. Charrassin, 2017: The ocean mixed layer under Southern Ocean sea-ice: Seasonal cycle and forcing. *Journal of Geophysical Research: Oceans*, **122**, 1608-1633,
<http://dx.doi.org/10.1002/2016JC011970>
- Peterson, I., B. Greenan, D. Gilbert, and D. Hebert, 2017: Variability and wind forcing of ocean temperature and thermal fronts in the Slope Water region of the Northwest Atlantic. *Journal of Geophysical Research: Oceans*, **122**, 7325-7343,
<http://dx.doi.org/10.1002/2017JC012788>
- Phillipson, L. and R. Toumi, 2017: Impact of data assimilation on ocean current forecasts in the Angola Basin. *Ocean Modelling*, **114**, 45-58,
<http://dx.doi.org/10.1016/j.ocemod.2017.04.006>
- Piecuch, C. G., R. M. Ponte, C. M. Little, M. W. Buckley, and I. Fukumori, 2017: Mechanisms underlying recent decadal changes in subpolar North Atlantic Ocean heat content. *Journal of Geophysical Research: Oceans*, **122**, 7181-7197,
<http://dx.doi.org/10.1002/2017JC012845>
- Piron, A., V. Thierry, H. Mercier, and G. Caniaux, 2017: Gyre-scale deep convection in the subpolar North Atlantic Ocean during winter 2014–2015. *Geophysical Research Letters*, **44**, 1439-1447, <http://dx.doi.org/10.1002/2016GL071895>
- Planton, Y., A. Voldoire, H. Giordani, and G. Caniaux, 2017: Main processes of the Atlantic cold tongue interannual variability. *Climate Dynamics*,
<https://doi.org/10.1007/s00382-017-3701-2>
- Pollmann, F., C. Eden, and D. Olbers, 2017: Evaluating the Global Internal Wave Model IDEMIX Using Finestructure Methods. *Journal of Physical Oceanography*, **47**, 2267-2289, <https://doi.org/10.1175/JPO-D-16-0204.1>
- Poteau, A., E. Boss, and H. Claustre, 2017: Particulate concentration and seasonal dynamics in the mesopelagic ocean based on the backscattering coefficient measured with Biogeochemical-Argo floats. *Geophysical Research Letters*, **44**, 6933-6939,
<http://dx.doi.org/10.1002/2017GL073949>
- Pothapakula, P. K., K. K. Osuri, S. Pattanayak, U. C. Mohanty, S. Sil, and R. Nadimpalli, 2017: Observational perspective of SST changes during life cycle of tropical cyclones over Bay of Bengal. *Natural Hazards*, **88**, 1769-1787,
<https://doi.org/10.1007/s11069-017-2945-9>
- Powell, B. S., 2017: Quantifying How Observations Inform a Numerical Reanalysis of Hawaii.

- Journal of Geophysical Research: Oceans*, **122**, 8427-8444,
<http://dx.doi.org/10.1002/2017JC012854>
- Pozo Buil, M. and E. Di Lorenzo, 2017: Decadal dynamics and predictability of oxygen and subsurface tracers in the California Current System. *Geophysical Research Letters*, **44**, 4204-4213, <http://dx.doi.org/10.1002/2017GL072931>
- Prants, S. V., M. V. Budyansky, and M. Y. Uleysky, 2017: Lagrangian simulation and tracking of the mesoscale eddies contaminated by Fukushima-derived radionuclides. *Ocean Science*, **13**, 453-463, <https://doi.org/10.5194/os-13-453-2017>
- Prants, S. V., M. Y. Uleysky, and M. V. Budyansky, 2017: Oceans from the Space and Operational Oceanography. *Lagrangian Oceanography: Large-scale Transport and Mixing in the Ocean*, Springer International Publishing, 83-94, https://doi.org/10.1007/978-3-319-53022-2_3.
- Qu, T. and S. Gao, 2017: Resurfacing of South Pacific Tropical Water in the Equatorial Pacific and Its Variability Associated with ENSO. *Journal of Physical Oceanography*, **47**, 1095-1106, <http://dx.doi.org/10.1175/jpo-d-16-0078.1>
- Raj, R. P., 2017: Surface velocity estimates of the North Indian Ocean from satellite gravity and altimeter missions. *International Journal of Remote Sensing*, **38**, 296-313, <http://dx.doi.org/10.1080/01431161.2016.1266106>
- Rao, J. and R. Ren, 2017: Parallel comparison of the 1982/83, 1997/98 and 2015/16 super El Niños and their effects on the extratropical stratosphere. *Advances in Atmospheric Sciences*, **34**, 1121-1133, <https://doi.org/10.1007/s00376-017-6260-x>
- Rao, R. R. and S. S. V. S. Ramakrishna, 2017: Observed seasonal and interannual variability of the near-surface thermal structure of the Arabian Sea Warm Pool. *Dynamics of Atmospheres and Oceans*, **78**, 121-136, <http://dx.doi.org/10.1016/j.dynatmoce.2017.03.001>
- Reale, M., S. Salon, A. Crise, R. Farneti, R. Mosetti, and G. Sannino, 2017: Unexpected Covariant Behavior of the Aegean and Ionian Seas in the Period 1987–2008 by Means of a Nondimensional Sea Surface Height Index. *Journal of Geophysical Research: Oceans*, **122**, 8020-8033, <http://dx.doi.org/10.1002/2017JC012983>
- Reddy, L. S., S. P. Vighneshwar, and B. Ravikiran, 2017: PSNM: An Algorithm for Detecting Duplicates in Oceanographic Data. *Computer Communication, Networking and Internet Security: Proceedings of IC3T 2016*, S. C. Satapathy, V. Bhateja, K. S. Raju, and B. Janakiramaiah, Eds., Springer Singapore, 291-297, https://doi.org/10.1007/978-981-10-3226-4_29.
- Rembauville, M., N. Briggs, M. Ardyna, J. Uitz, P. Catala, C. Penkerch, A. Poteau, H. Claustre, and S. Blain, 2017: Plankton Assemblage Estimated with BGC-Argo Floats in the Southern Ocean: Implications for Seasonal Successions and Particle Export. *Journal of Geophysical Research: Oceans*, **122**, 8278-8292, <http://dx.doi.org/10.1002/2017JC013067>
- Rhein, M., R. Steinfeldt, D. Kieke, I. Stendardo, and I. Yashayaev, 2017: Ventilation variability of Labrador Sea Water and its impact on oxygen and anthropogenic carbon: a review. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **375**, <http://dx.doi.org/10.1098/rsta.2016.0321>
- Roberts, C. D., M. D. Palmer, R. P. Allan, D. G. Desbruyeres, P. Hyder, C. Liu, and D. Smith,

- 2017: Surface flux and ocean heat transport convergence contributions to seasonal and interannual variations of ocean heat content. *Journal of Geophysical Research: Oceans*, **122**, 726-744, <http://dx.doi.org/10.1002/2016JC012278>
- Roesler, C., J. Uitz, H. Claustre, E. Boss, X. Xing, E. Organelli, N. Briggs, A. Bricaud, C. Schmechtig, A. Poteau, F. D'Ortenzio, J. Ras, S. Drapeau, N. Haëntjens, and M. Barbieux, 2017: Recommendations for obtaining unbiased chlorophyll estimates from in situ chlorophyll fluorometers: A global analysis of WET Labs ECO sensors. *Limnology and Oceanography: Methods*, **15**, 572-585, <https://doi.org/10.1002/lom3.10185>
- Rossby, T., G. Reverdin, L. Chafik, and H. Søjland, 2017: A direct estimate of poleward volume, heat, and freshwater fluxes at 59.5°N between Greenland and Scotland. *Journal of Geophysical Research: Oceans*, **122**, 5870-5887, <http://dx.doi.org/10.1002/2017JC012835>
- Rosso, I., M. R. Mazloff, A. Verdy, and L. D. Talley, 2017: Space and time variability of the Southern Ocean carbon budget. *Journal of Geophysical Research: Oceans*, **122**, 7407-7432, <http://dx.doi.org/10.1002/2016JC012646>
- Rudzin, J. E., L. K. Shay, B. Jaimes, and J. K. Brewster, 2017: Upper ocean observations in eastern Caribbean Sea reveal barrier layer within a warm core eddy. *Journal of Geophysical Research: Oceans*, **122**, 1057-1071, <http://dx.doi.org/10.1002/2016JC012339>
- Rykova, T., P. R. Oke, and D. A. Griffin, 2017: A comparison of the structure, properties, and water mass composition of quasi-isotropic eddies in western boundary currents in an eddy-resolving ocean model. *Ocean Modelling*, **114**, 1-13, <http://dx.doi.org/10.1016/j.ocemod.2017.03.013>
- Sakov, P. and P. Sandery, 2017: An adaptive quality control procedure for data assimilation. *Tellus A: Dynamic Meteorology and Oceanography*, **69**, 1318031, <http://dx.doi.org/10.1080/16000870.2017.1318031>
- Sánchez-Román, A., S. Ruiz, A. Pascual, B. Moure, and S. Guinehut, 2017: On the mesoscale monitoring capability of Argo floats in the Mediterranean Sea. *Ocean Science*, **13**, 223-234, <http://dx.doi.org/10.5194/os-13-223-2017>
- Sandery, P. A. and P. Sakov, 2017: Ocean forecasting of mesoscale features can deteriorate by increasing model resolution towards the submesoscale. *Nature Communications*, **8**, 1566, <https://doi.org/10.1038/s41467-017-01595-0>
- Satyanarayana Raju, T., T. V. S. Udaya Bhaskar, J. Pavan Kumar, and K. S. Deepthi, 2017: Detecting and Correcting the Degradations of Sensors on Argo Floats Using Artificial Neural Networks. Singapore, Springer Singapore, 299-308, https://doi.org/10.1007/978-981-10-3226-4_30
- Sauzède, R., H. C. Bittig, H. Claustre, O. Pasqueron de Fommervault, J.-P. Gattuso, L. Legendre, and K. S. Johnson, 2017: Estimates of Water-Column Nutrient Concentrations and Carbonate System Parameters in the Global Ocean: A Novel Approach Based on Neural Networks. *Frontiers in Marine Science*, **4**, <https://doi.org/10.3389/fmars.2017.00128>
- Schallenberg, C., A. R. S. Ross, A. B. Davidson, G. M. Stewart, and J. T. Cullen, 2017: Temporal variability of dissolved iron species in the mesopelagic zone at Ocean Station PAPA.

- Journal of Marine Systems*, **172**, 128-136,
<http://doi.org/10.1016/j.jmarsys.2017.03.006>
- Scharffenberg, M. G., A. Köhl, and D. Stammer, 2017: Testing the Quality of Sea-Level Data Using the GECCO Adjoint Assimilation Approach. *Surveys in Geophysics*, **38**, 349-383,
<http://dx.doi.org/10.1007/s10712-016-9401-3>
- Schemm, S., A. Nummelin, N. G. Kvamstø, and Ø. Breivik, 2017: The Ocean Version of the Lagrangian Analysis Tool LAGRANTO. *Journal of Atmospheric and Oceanic Technology*, **34**, 1723-1741, <https://doi.org/10.1175/JTECH-D-16-0198.1>
- Schönau, M. C. and D. L. Rudnick, 2017: Mindanao Current and Undercurrent: Thermohaline Structure and Transport from Repeat Glider Observations. *Journal of Physical Oceanography*, **47**, 2055-2075, <https://doi.org/10.1175/JPO-D-16-0274.1>
- Seidov, D., A. Mishonov, J. Reagan, and R. Parsons, 2017: Multidecadal variability and climate shift in the North Atlantic Ocean. *Geophysical Research Letters*, **44**, 4985-4993, <http://dx.doi.org/10.1002/2017GL073644>
- Sérazin, G., A. Jaymond, S. Leroux, T. Penduff, L. Bessières, W. Llovel, B. Barnier, J.-M. Molines, and L. Terray, 2017: A global probabilistic study of the ocean heat content low-frequency variability: Atmospheric forcing versus oceanic chaos. *Geophysical Research Letters*, **44**, 5580-5589, <http://dx.doi.org/10.1002/2017GL073026>
- Sévellec, F. and A. V. Fedorov, 2017: Predictability and Decadal Variability of the North Atlantic Ocean State Evaluated from a Realistic Ocean Model. *Journal of Climate*, **30**, 477-498, <http://dx.doi.org/10.1175/JCLI-D-16-0323.1>
- Sévellec, F., A. C. d. Verdière, and M. Ollitrault, 2017: Evolution of Intermediate Water Masses Based on Argo Float Displacements. *Journal of Physical Oceanography*, **47**, 1569-1586, <http://dx.doi.org/10.1175/jpo-d-16-0182.1>
- Seyfried, L., P. Marsaleix, E. Richard, and C. Estournel, 2017: Modelling deep-water formation in the north-west Mediterranean Sea with a new air-sea coupled model: sensitivity to turbulent flux parameterizations. *Ocean Sci.*, **13**, 1093-1112,
<https://doi.org/10.5194/os-13-1093-2017>
- Sgubin, G., D. Swingedouw, S. Drijfhout, Y. Mary, and A. Bennabi, 2017: Abrupt cooling over the North Atlantic in modern climate models. *Nat Commun*, **8**,
<http://dx.doi.org/10.1038/ncomms14375>
- Shaffrey, L. C., et al. (2017), Decadal predictions with the HiGEM high resolution global coupled climate model: description and basic evaluation, *Climate Dynamics*, **48**(1), 297-311, doi: <https://doi.org/10.1007/s00382-016-3075-x>.
- Shan, H. X. and C. M. Dong, 2017: The SST-Wind Coupling Pattern in the East China Sea Based on a Regional Coupled Ocean-Atmosphere Model. *Atmosphere-Ocean*, **55**, 230-246, <https://doi.org/10.1080/07055900.2017.1349646>
- Shen, S. S. P., G. P. Behm, Y. T. Song, and T. Qu, 2017: A Dynamically Consistent Reconstruction of Ocean Temperature. *Journal of Atmospheric and Oceanic Technology*, **34**, 1061-1082, <http://dx.doi.org/10.1175/jtech-d-16-0133.1>
- Shi, L., O. Alves, R. Wedd, M. A. Balmaseda, Y. Chang, G. Chepurin, N. Ferry, Y. Fujii, F. Gaillard, S. A. Good, S. Guinehut, K. Haines, F. Hernandez, T. Lee, M. Palmer, K. A. Peterson, S. Masuda, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, X. Wang, and Y. Yin, 2017: An assessment of upper ocean salinity content from the Ocean

- Reanalyses Inter-comparison Project (ORA-IP). *Climate Dynamics*, **49**, 1009-1029, <https://doi.org/10.1007/s00382-015-2868-7>
- Shimada, K., S. Aoki, and K. I. Ohshima, 2017: Creation of a Gridded Dataset for the Southern Ocean with a Topographic Constraint Scheme. *Journal of Atmospheric and Oceanic Technology*, **34**, 511-532, <http://dx.doi.org/10.1175/jtech-d-16-0075.1>
- Sivareddy, S., A. Paul, T. Sluka, M. Ravichandran, and E. Kalnay, 2017: The pre-Argo ocean reanalyses may be seriously affected by the spatial coverage of moored buoys. *Sci. Rep.*, **7**, 46685, <http://dx.doi.org/10.1038/srep46685>
- Slangen, A. B. A., B. Meyssignac, C. Agosta, N. Champollion, J. A. Church, X. Fettweis, S. R. M. Ligtenberg, B. Marzeion, A. Melet, M. D. Palmer, K. Richter, C. D. Roberts, and G. Spada, 2017: Evaluating Model Simulations of Twentieth-Century Sea Level Rise. Part I: Global Mean Sea Level Change. *Journal of Climate*, **30**, 8539-8563, <https://doi.org/10.1175/JCLI-D-17-0110.1>
- Smith, S., H. Ngodock, M. Carrier, J. Shriver, P. Muscarella, and I. Souopgui, 2017: Validation and Operational Implementation of the Navy Coastal Ocean Model Four Dimensional Variational Data Assimilation System (NCOM 4DVAR) in the Okinawa Trough. *Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications (Vol. III)*, S. K. Park and L. Xu, Eds., Springer International Publishing, 405-427, https://doi.org/10.1007/978-3-319-43415-5_18.
- Somavilla, R., C. González-Pola, and J. Fernández-Díaz, 2017: The warmer the ocean surface, the shallower the mixed layer. How much of this is true? *Journal of Geophysical Research: Oceans*, **122**, 7698-7716, <http://dx.doi.org/10.1002/2017JC013125>
- Song, X. and L. Yu, 2017: Air-sea heat flux climatologies in the Mediterranean Sea: Surface energy balance and its consistency with ocean heat storage. *Journal of Geophysical Research: Oceans*, **122**, 4068-4087, <http://dx.doi.org/10.1002/2016JC012254>
- Souopgui, I., H. Ngodock, M. Carrier, and S. Smith, 2017: A comparison of two preconditioner algorithms within the representer-based four-dimensional variational data assimilation system for the Navy coastal ocean model. *Journal of Operational Oceanography*, **10**, 127-134, <http://dx.doi.org/10.1080/1755876X.2017.1306376>
- Srinivasu, U., M. Ravichandran, W. Han, S. Sivareddy, H. Rahman, Y. Li, and S. Nayak, 2017: Causes for the reversal of North Indian Ocean decadal sea level trend in recent two decades. *Climate Dynamics*, **49**, 3887-3904, <https://doi.org/10.1007/s00382-017-3551-y>
- Stanev, E. V., S. Grashorn, and Y. J. Zhang, 2017: Cascading ocean basins: numerical simulations of the circulation and interbasin exchange in the Azov-Black-Marmara-Mediterranean Seas system. *Ocean Dynamics*, **67**, 1003-1025, <https://doi.org/10.1007/s10236-017-1071-2>
- Stanev, E. V., S. Grayek, H. Claustre, C. Schmechtig, and A. Poteau, 2017: Water intrusions and particle signatures in the Black Sea: a Biogeochemical-Argo float investigation. *Ocean Dynamics*, **67**, 119-1136, <https://doi.org/10.1007/s10236-017-1077-9>
- Stewart, K. D., T. W. N. Haine, A. M. Hogg, and F. Roquet, 2017: On Cabbeling and Thermobaricity in the Surface Mixed Layer. *Journal of Physical Oceanography*, **47**, 1775-1787, <http://dx.doi.org/10.1175/jpo-d-17-0025.1>
- Storto, A. and S. Masina, 2017: Objectively estimating the temporal evolution of accuracy

- and skill in a global ocean reanalysis. *Meteorological Applications*, **24**, 101-113, <http://dx.doi.org/10.1002/met.1609>
- Storto, A., S. Masina, M. Balmaseda, S. Guinehut, Y. Xue, T. Szekely, I. Fukumori, G. Forget, Y.-S. Chang, S. A. Good, A. Köhl, G. Vernieres, N. Ferry, K. A. Peterson, D. Behringer, M. Ishii, S. Masuda, Y. Fujii, T. Toyoda, Y. Yin, M. Valdivieso, B. Barnier, T. Boyer, T. Lee, J. Gouillon, O. Wang, P. Heimbach, A. Rosati, R. Kovach, F. Hernandez, M. J. Martin, M. Kamachi, T. Kuragano, K. Mogensen, O. Alves, K. Haines, and X. Wang, 2017: Steric sea level variability (1993–2010) in an ensemble of ocean reanalyses and objective analyses. *Climate Dynamics*, **49**, 709-729, <https://doi.org/10.1007/s00382-015-2554-9>
- Storto, A., C. Yang, and S. Masina, 2017: Constraining the Global Ocean Heat Content Through Assimilation of CERES-Derived TOA Energy Imbalance Estimates. *Geophysical Research Letters*, **44**, 10,520-10,529, <http://dx.doi.org/10.1002/2017GL075396>
- Strass, V. H., H. Leach, H. Prandke, M. Donnelly, A. U. Bracher, and D. A. Wolf-Gladrow, 2017: The physical environmental conditions for biogeochemical differences along the Antarctic Circumpolar Current in the Atlantic Sector during late austral summer 2012. *Deep Sea Research Part II: Topical Studies in Oceanography*, **138**, 6-25, <https://doi.org/10.1016/j.dsr2.2016.05.018>
- Stukel, M. R. and H. W. Ducklow, 2017: Stirring Up the Biological Pump: Vertical Mixing and Carbon Export in the Southern Ocean. *Global Biogeochemical Cycles*, **31**, 1420-1434, <https://doi.org/10.1002/2017GB005652>
- Su, H., X. Wu, W. Lu, W. Zhang, and X.-H. Yan, 2017: Inconsistent Subsurface and Deeper Ocean Warming Signals During Recent Global Warming and Hiatus. *Journal of Geophysical Research: Oceans*, **122**, 8182-8195, <http://dx.doi.org/10.1002/2016JC012481>
- Sugimoto, S., K. Hanawa, T. Watanabe, T. Suga, and S.-P. Xie, 2017: Enhanced warming of the subtropical mode water in the North Pacific and North Atlantic. *Nature Climate Change*, **7**, 656, <http://dx.doi.org/10.1038/nclimate3371>
- Sun, D., T. Ito, and A. Bracco, 2017: Oceanic Uptake of Oxygen During Deep Convection Events Through Diffusive and Bubble-Mediated Gas Exchange. *Global Biogeochemical Cycles*, **31**, 1579-1591, <http://dx.doi.org/10.1002/2017GB005716>
- Sun, W., C. Dong, R. Wang, Y. Liu, and K. Yu, 2017: Vertical structure anomalies of oceanic eddies in the Kuroshio Extension region. *Journal of Geophysical Research: Oceans*, **122**, 1476-1496, <http://dx.doi.org/10.1002/2016JC012226>
- Szuts, Z. B. and C. S. Meinen, 2017: Florida Current Salinity and Salinity Transport: Mean and Decadal Changes. *Geophysical Research Letters*, **44**, 10,495-10,503, <http://dx.doi.org/10.1002/2017GL074538>
- Taguchi, B., N. Schneider, M. Nonaka, and H. Sasaki, 2017: Decadal Variability of Upper-Ocean Heat Content Associated with Meridional Shifts of Western Boundary Current Extensions in the North Pacific. *Journal of Climate*, **30**, 6247-6264, <https://doi.org/10.1175/JCLI-D-16-0779.1>
- Tang, W., A. Fore, S. Yueh, T. Lee, A. Hayashi, A. Sanchez-Franks, J. Martinez, B. King, and D. Baranowski, 2017: Validating SMAP SSS with in situ measurements. *Remote Sensing*

- of Environment*, **200**, 326-340, <https://doi.org/10.1016/j.rse.2017.08.021>
- Thompson, P. R., M. Merrifield, E. Leuliette, W. Sweet, D. Chambers, B. D. Hamlington, S. Jevrejeva, J. J. Marra, G. Mitchum, and R. S. Nerem, 2017: Sea level variability and change in the State of the Climate in 2016. *Bull. Am. Meteorol. Soc.*, **98**, S79-S81, <https://doi.org/10.1175/2017BAMSStateoftheClimate.1>
- Tommasi, D., C. A. Stock, A. J. Hobday, R. Methot, I. C. Kaplan, J. P. Eveson, K. Holsman, T. J. Miller, S. Gaichas, M. Gehlen, A. Pershing, G. A. Vecchi, R. Msadek, T. Delworth, C. M. Eakin, M. A. Haltuch, R. S  f  rian, C. M. Spillman, J. R. Hartog, S. Siedlecki, J. F. Samhuri, B. Muhling, R. G. Asch, M. L. Pinsky, V. S. Saba, S. B. Kapnick, C. F. Gaitan, R. R. Rykaczewski, M. A. Alexander, Y. Xue, K. V. Pegion, P. Lynch, M. R. Payne, T. Kristiansen, P. Lehodey, and F. E. Werner, 2017: Managing living marine resources in a dynamic environment: The role of seasonal to decadal climate forecasts. *Progress in Oceanography*, **152**, 15-49, <http://doi.org/10.1016/j.pocean.2016.12.011>
- Toye, H., P. Zhan, G. Gopalakrishnan, A. R. Kartadikaria, H. Huang, O. Knio, and I. Hoteit, 2017: Ensemble data assimilation in the Red Sea: sensitivity to ensemble selection and atmospheric forcing. *Ocean Dynamics*, **67**, 915-933, <https://doi.org/10.1007/s10236-017-1064-1>
- Toyoda, T., Y. Fujii, T. Kuragano, M. Kamachi, Y. Ishikawa, S. Masuda, K. Sato, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M. J. Martin, K. A. Peterson, S. A. Good, M. Valdivieso, K. Haines, A. Storto, S. Masina, A. K  hl, H. Zuo, M. Balmaseda, Y. Yin, L. Shi, O. Alves, G. Smith, Y.-S. Chang, G. Vernieres, X. Wang, G. Forget, P. Heimbach, O. Wang, I. Fukumori, and T. Lee, 2017: Intercomparison and validation of the mixed layer depth fields of global ocean syntheses. *Climate Dynamics*, **49**, 753-773, <https://doi.org/10.1007/s00382-015-2637-7>
- Toyoda, T., Y. Fujii, T. Kuragano, N. Kosugi, D. Sasano, M. Kamachi, Y. Ishikawa, S. Masuda, K. Sato, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M. J. Martin, K. A. Peterson, S. A. Good, M. Valdivieso, K. Haines, A. Storto, S. Masina, A. K  hl, Y. Yin, L. Shi, O. Alves, G. Smith, Y.-S. Chang, G. Vernieres, X. Wang, G. Forget, P. Heimbach, O. Wang, I. Fukumori, T. Lee, H. Zuo, and M. Balmaseda, 2017: Interannual-decadal variability of wintertime mixed layer depths in the North Pacific detected by an ensemble of ocean syntheses. *Climate Dynamics*, **49**, 891-907, <https://doi.org/10.1007/s00382-015-2762-3>
- Toyoda, T. and S. Okamoto, 2017: Physical forcing of late summer chlorophyll a blooms in the oligotrophic eastern North Pacific. *Journal of Geophysical Research: Oceans*, **122**, 1849-1861, <http://dx.doi.org/10.1002/2016JC012423>
- Tozuka, T., M. F. Cronin, and H. Tomita, 2017: Surface frontogenesis by surface heat fluxes in the upstream Kuroshio Extension region. *Scientific Reports*, **7**, 10258, <https://doi.org/10.1038/s41598-017-10268-3>
- Tozuka, T., S. Ohishi, and M. F. Cronin, 2017: A metric for surface heat flux effect on horizontal sea surface temperature gradients. *Climate Dynamics*, <https://doi.org/10.1007/s00382-017-3940-2>
- Travis, S. and B. Qiu, 2017: Decadal Variability in the South Pacific Subtropical Countercurrent and Regional Mesoscale Eddy Activity. *Journal of Physical Oceanography*, **47**, 499-512, <http://dx.doi.org/10.1175/jpo-d-16-0217.1>

- Turuncoglu, U. U. and G. Sannino, 2017: Validation of newly designed regional earth system model (RegESM) for Mediterranean Basin. *Climate Dynamics*, **48**, 2919-2947, <https://doi.org/10.1007/s00382-016-3241-1>
- Uchiyama, Y., Y. Suzue, and H. Yamazaki, 2017: Eddy-driven nutrient transport and associated upper-ocean primary production along the Kuroshio. *Journal of Geophysical Research: Oceans*, **122**, 5046-5062, <http://dx.doi.org/10.1002/2017JC012847>
- Usui, N., T. Wakamatsu, Y. Tanaka, N. Hirose, T. Toyoda, S. Nishikawa, Y. Fujii, Y. Takatsuki, H. Igarashi, H. Nishikawa, Y. Ishikawa, T. Kuragano, and M. Kamachi, 2017: Four-dimensional variational ocean reanalysis: a 30-year high-resolution dataset in the western North Pacific (FORA-WNP30). *Journal of Oceanography*, **73**, 205-233, <http://dx.doi.org/10.1007/s10872-016-0398-5>
- Valdivieso, M., K. Haines, M. Balmaseda, Y.-S. Chang, M. Drevillon, N. Ferry, Y. Fujii, A. Köhl, A. Storto, T. Toyoda, X. Wang, J. Waters, Y. Xue, Y. Yin, B. Barnier, F. Hernandez, A. Kumar, T. Lee, S. Masina, and K. Andrew Peterson, 2017: An assessment of air-sea heat fluxes from ocean and coupled reanalyses. *Climate Dynamics*, **49**, 983-1008, <https://doi.org/10.1007/s00382-015-2843-3>
- VanZwieten, J. H., L. T. Rauchenstein, and L. Lee, 2017: An assessment of Florida's ocean thermal energy conversion (OTEC) resource. *Renewable and Sustainable Energy Reviews*, **75**, 683-691, <http://dx.doi.org/10.1016/j.rser.2016.11.043>
- Verdy, A., B. Cornuelle, M. R. Mazloff, and D. L. Rudnick, 2017: Estimation of the Tropical Pacific Ocean State 2010–13. *Journal of Atmospheric and Oceanic Technology*, **34**, 1501-1517, <http://dx.doi.org/10.1175/jtech-d-16-0223.1>
- Verdy, A. and M. R. Mazloff, 2017: A data assimilating model for estimating Southern Ocean biogeochemistry. *Journal of Geophysical Research: Oceans*, **122**, 6968-6988, <http://dx.doi.org/10.1002/2016JC012650>
- Vergara, O., B. Dewitte, M. Ramos, and O. Pizarro, 2017: Vertical energy flux at ENSO time scales in the subthermocline of the Southeastern Pacific. *Journal of Geophysical Research: Oceans*, **122**, 6011-6038, <http://dx.doi.org/10.1002/2016JC012614>
- Verri, G., N. Pinardi, P. Oddo, S. A. Ciliberti, and G. Coppini, 2017: River runoff influences on the Central Mediterranean overturning circulation. *Climate Dynamics*, <https://doi.org/10.1007/s00382-017-3715-9>
- Verrier, S., P. Y. Le Traon, and E. Remy, 2017: Assessing the impact of multiple altimeter missions and Argo in a global eddy-permitting data assimilation system. *Ocean Sci.*, **13**, 1077-1092, <https://doi.org/10.5194/os-13-1077-2017>
- Vianello, P., I. J. Anson, M. Rouault, and M. Ostrowski, 2017: Transport and transformation of surface water masses across the Mascarene Plateau during the Northeast Monsoon season. *African Journal of Marine Science*, **39**, 453-466, <https://doi.org/10.2989/1814232X.2017.1400999>
- Vinogradova, N. T. and R. M. Ponte, 2017: In Search of Fingerprints of the Recent Intensification of the Ocean Water Cycle. *Journal of Climate*, **30**, 5513-5528, <http://dx.doi.org/10.1175/jcli-d-16-0626.1>
- Vitale, S. S., S. F. DiMarco, H. F. Seidel, and Z. Wang, 2017: Circulation analysis in the northwest Indian Ocean using ARGO floats and surface drifter observations, and

- SODA reanalysis output. *Dynamics of Atmospheres and Oceans*, **78**, 57-70, <http://doi.org/10.1016/j.dynatmoce.2017.02.002>
- Volkov, D. L., S.-K. Lee, F. W. Landerer, and R. Lumpkin, 2017: Decade-long deep-ocean warming detected in the subtropical South Pacific. *Geophysical Research Letters*, **44**, 927-936, <http://dx.doi.org/10.1002/2016GL071661>
- Waldman, R., M. Herrmann, S. Somot, T. Arsouze, R. Benshila, A. Bosse, J. Chanut, H. Giordani, F. Sevault, and P. Testor, 2017: Impact of the Mesoscale Dynamics on Ocean Deep Convection: The 2012–2013 Case Study in the Northwestern Mediterranean Sea. *Journal of Geophysical Research: Oceans*, **122**, 8813-8840, <http://dx.doi.org/10.1002/2016JC012587>
- Waldman, R., S. Somot, M. Herrmann, A. Bosse, G. Caniaux, C. Estournel, L. Houpert, L. Prieur, F. Sevault, and P. Testor, 2017: Modeling the intense 2012–2013 dense water formation event in the northwestern Mediterranean Sea: Evaluation with an ensemble simulation approach. *Journal of Geophysical Research: Oceans*, **122**, 1297-1324, <http://dx.doi.org/10.1002/2016JC012437>
- Wang, G., L. Cheng, J. Abraham, and C. Li, 2017: Consensuses and discrepancies of basin-scale ocean heat content changes in different ocean analyses. *Climate Dynamics*, <https://doi.org/10.1007/s00382-017-3751-5>
- Wang, G., L. Cheng, T. Boyer, and C. Li, 2017: Halosteric Sea Level Changes during the Argo Era. *Water*, **9**, 484, <http://dx.doi.org/10.3390/w9070484>
- Wang, J., 2017: Observational bifurcation of Wyrтки Jets and its influence on the salinity balance in the eastern Indian Ocean. *Atmospheric and Oceanic Science Letters*, **10**, 36-43, <http://dx.doi.org/10.1080/16742834.2017.1239506>
- Wang, T. Y., Y. Du, and X. Liao, 2017: The regime shift in the 1960s and associated atmospheric change over the southern Indian Ocean. *Acta Oceanologica Sinica*, **1**, 1-8, <http://dx.doi.org/10.1007/s13131-017-0987-1>
- Wang, Y. and M. J. McPhaden, 2017: Seasonal cycle of cross-equatorial flow in the central Indian Ocean. *Journal of Geophysical Research: Oceans*, **122**, 3817-3827, <http://dx.doi.org/10.1002/2016JC012537>
- Wang, Z., A. Storto, N. Pinardi, G. Liu, and H. Wang, 2017: Data assimilation of Argo profiles in a northwestern Pacific model. *Nat. Hazards Earth Syst. Sci.*, **17**, 17-30, <http://dx.doi.org/10.5194/nhess-17-17-2017>
- Watanabe, M. and M. Kawamiya, 2017: Remote effects of mixed layer development on ocean acidification in the subsurface layers of the North Pacific. *Journal of Oceanography*, **73**, 771-784, <https://doi.org/10.1007/s10872-017-0431-3>
- Watelet, S., J.-M. Beckers, and A. Barth, 2017: Reconstruction of the Gulf Stream from 1940 to the Present and Correlation with the North Atlantic Oscillation. *Journal of Physical Oceanography*, **47**, 2741-2754, <https://doi.org/10.1175/JPO-D-17-0064.1>
- Wen, C., Y. Xue, A. Kumar, D. Behringer, and L. Yu, 2017: How do uncertainties in NCEP R2 and CFSR surface fluxes impact tropical ocean simulations? *Climate Dynamics*, **49**, 3327-3344, <https://doi.org/10.1007/s00382-016-3516-6>
- While, J., C. Mao, M. J. Martin, J. Roberts-Jones, P. A. Sykes, S. A. Good, and A. J. McLaren, 2017: An operational analysis system for the global diurnal cycle of sea surface temperature: implementation and validation. *Quarterly Journal of the Royal*

- Meteorological Society*, **143**, 1787-1803, <http://dx.doi.org/10.1002/qj.3036>
- Williams, N. L., L. W. Juranek, R. A. Feely, K. S. Johnson, J. L. Sarmiento, L. D. Talley, A. G. Dickson, A. R. Gray, R. Wanninkhof, J. L. Russell, S. C. Riser, and Y. Takeshita, 2017: Calculating surface ocean pCO₂ from biogeochemical Argo floats equipped with pH: An uncertainty analysis. *Global Biogeochemical Cycles*, **31**, 591-604, <http://dx.doi.org/10.1002/2016GB005541>
- Woodworth, P. L., M. Á. Morales Maqueda, W. R. Gehrels, V. M. Roussenov, R. G. Williams, and C. W. Hughes, 2017: Variations in the difference between mean sea level measured either side of Cape Hatteras and their relation to the North Atlantic Oscillation. *Climate Dynamics*, **49**, 2451-2469, <https://doi.org/10.1007/s00382-016-3464-1>
- Wu, Q., X. Zhang, J. A. Church, and J. Hu, 2017: Variability and change of sea level and its components in the Indo-Pacific region during the altimetry era. *Journal of Geophysical Research: Oceans*, **122**, 1862-1881, <http://dx.doi.org/10.1002/2016JC012345>
- Xie, J., L. Bertino, F. Counillon, K. A. Lisæter, and P. Sakov, 2017: Quality assessment of the TOPAZ4 reanalysis in the Arctic over the period 1991–2013. *Ocean Sci.*, **13**, 123-144, <http://dx.doi.org/10.5194/os-13-123-2017>
- Xie, S.-P. and Y. Kosaka, 2017: What Caused the Global Surface Warming Hiatus of 1998–2013? *Current Climate Change Reports*, **3**, 128-140, <https://doi.org/10.1007/s40641-017-0063-0>
- Xing, X., H. Claustre, E. Boss, C. Roesler, E. Organelli, A. Poteau, M. Barbieux, and F. D'Ortenzio, 2017: Correction of profiles of in-situ chlorophyll fluorometry for the contribution of fluorescence originating from non-algal matter. *Limnology and Oceanography: Methods*, **15**, 80-93, <http://dx.doi.org/10.1002/lom3.10144>
- Xu, F., Y. Yao, L. Oey, and Y. Lin, 2017: Impacts of pre-existing ocean cyclonic circulation on sea surface chlorophyll-a concentrations off northeastern Taiwan following episodic typhoon passages. *Journal of Geophysical Research: Oceans*, **122**, 6482-6497, <http://dx.doi.org/10.1002/2016JC012625>
- Xu, L., S.-P. Xie, Z. Jing, L. Wu, Q. Liu, P. Li, and Y. Du, 2017: Observing subsurface changes of two anticyclonic eddies passing over the Izu-Ogasawara Ridge. *Geophysical Research Letters*, **44**, 1857-1865, <http://dx.doi.org/10.1002/2016GL072163>
- Xu, L., S.-P. Xie, Q. Liu, C. Liu, P. Li, and X. Lin, 2017: Evolution of the North Pacific Subtropical Mode Water in Anticyclonic Eddies. *Journal of Geophysical Research: Oceans*, **122**, 10118-10130, <http://dx.doi.org/10.1002/2017JC013450>
- Xue, Y. and A. Kumar, 2017: Evolution of the 2015/16 El Niño and historical perspective since 1979. *Science China Earth Sciences*, **60**, 1572-1588, <https://doi.org/10.1007/s11430-016-0106-9>
- Xue, Y., C. Wen, A. Kumar, M. Balmaseda, Y. Fujii, O. Alves, M. Martin, X. Yang, G. Vernieres, C. Desportes, T. Lee, I. Ascione, R. Gudgel, and I. Ishikawa, 2017: A real-time ocean reanalyses intercomparison project in the context of tropical pacific observing system and ENSO monitoring. *Climate Dynamics*, **49**, 3647-3672, <https://doi.org/10.1007/s00382-017-3535-y>
- Xue, Y., C. Wen, X. Yang, D. Behringer, A. Kumar, G. Vecchi, A. Rosati, and R. Gudgel, 2017:

- Evaluation of tropical Pacific observing systems using NCEP and GFDL ocean data assimilation systems. *Climate Dynamics*, **49**, 843-868, <https://doi.org/10.1007/s00382-015-2743-6>
- Yan, Y., A. Barth, J. M. Beckers, J. M. Brankart, P. Brasseur, and G. Candille, 2017: Comparison of different incremental analysis update schemes in a realistic assimilation system with Ensemble Kalman Filter. *Ocean Modelling*, **115**, 27-41, <http://dx.doi.org/10.1016/j.ocemod.2017.05.002>
- Yan, Y., D. Xu, K. Yu, and Y. Qi, 2017: Propagation of the subsurface freshening water and its major source in the northwestern Pacific. *Journal of Geophysical Research: Oceans*, **122**, 6857-6871, <http://dx.doi.org/10.1002/2017JC013033>
- Yang, B., S. R. Emerson, and S. M. Bushinsky, 2017: Annual net community production in the subtropical Pacific Ocean from in situ oxygen measurements on profiling floats. *Global Biogeochemical Cycles*, **31**, 728-744, <http://dx.doi.org/10.1002/2016GB005545>
- Yang, C., S. Masina, and A. Storto, 2017: Historical ocean reanalyses (1900–2010) using different data assimilation strategies. *Quarterly Journal of the Royal Meteorological Society*, **143**, 479-493, <http://dx.doi.org/10.1002/qj.2936>
- Yao, W. and J. Shi, 2017: Pacific-Indian interocean circulation of the Antarctic Intermediate Water around South Australia. *Acta Oceanologica Sinica*, **36**, 4-14, <https://doi.org/10.1007/s13131-017-1078-z>
- Yao, W., J. Shi, and X. Zhao, 2017: Freshening of Antarctic Intermediate Water in the South Atlantic Ocean in 2005–2014. *Ocean Sci.*, **13**, 521-530, <https://doi.org/10.5194/os-13-521-2017>
- Yashayaev, I. and J. W. Loder, 2017: Further intensification of deep convection in the Labrador Sea in 2016. *Geophysical Research Letters*, **44**, 1429-1438, <http://dx.doi.org/10.1002/2016GL071668>
- Ye, H., J. Sheng, D. Tang, E. Siswanto, M. Ali Kalhor, and Y. Sui, 2017: Storm-induced changes in pCO₂ at the sea surface over the northern South China Sea during Typhoon Wutip. *Journal of Geophysical Research: Oceans*, **122**, 4761-4778, <http://dx.doi.org/10.1002/2016JC012643>
- Yi, S., K. Heki, and A. Qian, 2017: Acceleration in the Global Mean Sea Level Rise: 2005–2015. *Geophysical Research Letters*, **44**, 11,905-11,913, <http://dx.doi.org/10.1002/2017GL076129>
- Yin, Y., X. Lin, R. He, and Y. Hou, 2017: Impact of mesoscale eddies on Kuroshio intrusion variability northeast of Taiwan. *Journal of Geophysical Research: Oceans*, **122**, 3021-3040, <http://dx.doi.org/10.1002/2016JC012263>
- Yu, L., X. Jin, S. A. Josey, T. Lee, A. Kumar, C. Wen, and Y. Xue, 2017: The Global Ocean Water Cycle in Atmospheric Reanalysis, Satellite, and Ocean Salinity. *Journal of Climate*, **30**, 3829-3852, <http://dx.doi.org/10.1175/jcli-d-16-0479.1>
- Yu, W., X. Chen, C. Chen, and Y. Zhang, 2017: Impacts of oceanographic factors on interannual variability of the winter-spring cohort of neon flying squid abundance in the Northwest Pacific Ocean. *Acta Oceanologica Sinica*, **36**, 48-59, <https://doi.org/10.1007/s13131-017-1069-0>
- Zang, Z., Z. G. Xue, N. Bi, Z. Yao, X. Wu, Q. Ge, and H. Wang, 2017: Seasonal and

- intra-seasonal variations of suspended-sediment distribution in the Yellow Sea. *Continental Shelf Research*, **148**, 116-129, <https://doi.org/10.1016/j.csr.2017.08.016>
- Zaron, E. D. and R. D. Ray, 2017: Using an altimeter-derived internal tide model to remove tides from in situ data. *Geophysical Research Letters*, **44**, 4241-4245, <http://dx.doi.org/10.1002/2017GL072950>
- Zeng, L. and D. Wang, 2017: Seasonal variations in the barrier layer in the South China Sea: characteristics, mechanisms and impact of warming. *Climate Dynamics*, **48**, 1911-1930, <http://dx.doi.org/10.1007/s00382-016-3182-8>
- Zhang, C., Y. Ding, X. Bao, C. Bi, R. Li, C. Zhang, B. Shen, and K. Wan, 2017: A numerical study of the South China Sea Warm Current during winter monsoon relaxation. *Chinese Journal of Oceanology and Limnology*, <https://doi.org/10.1007/s00343-018-6302-y>
- Zhang, L., T. L. Delworth, X. Yang, R. G. Gudgel, L. Jia, G. A. Vecchi, and F. Zeng, 2017: Estimating Decadal Predictability for the Southern Ocean Using the GFDL CM2.1 Model. *Journal of Climate*, **30**, 5187-5203, <http://dx.doi.org/10.1175/jcli-d-16-0840.1>
- Zhang, L., T. L. Delworth, and F. Zeng, 2017: The impact of multidecadal Atlantic meridional overturning circulation variations on the Southern Ocean. *Climate Dynamics*, **48**, 2065-2085, <http://dx.doi.org/10.1007/s00382-016-3190-8>
- Zhang, L., F. J. Wang, Q. Wang, S. Hu, F. Wang, and D. Hu, 2017: Structure and Variability of the North Equatorial Current/Undercurrent from Mooring Measurements at 130°E in the Western Pacific. *Sci. Rep.*, **7**, 46310, <http://dx.doi.org/10.1038/srep46310>
- Zhang, M. and H. von Storch, 2017: Toward downscaling oceanic hydrodynamics – suitability of a high-resolution OGCM for describing regional ocean variability in the South China Sea. *Oceanologia*, **59**, 166-176, <http://dx.doi.org/10.1016/j.oceano.2017.01.001>
- Zhang, R. and C. Gao, 2017: Processes involved in the second-year warming of the 2015 El Niño event as derived from an intermediate ocean model. *Science China Earth Sciences*, **60**, 1601-1613, <https://doi.org/10.1007/s11430-016-0201-9>
- Zhang, W. and X.-H. Yan, 2017: The Subpolar North Atlantic Ocean Heat Content Variability and its Decomposition. *Scientific Reports*, **7**, 13748, <https://doi.org/10.1038/s41598-017-14158-6>
- Zhang, X., C. Sun, C. Liu, L. Zhang, C. Shao, X. Zhang, and Y. Zhao, 2017: Evaluation of the Impact of Argo Data on Ocean Reanalysis in the Pacific Region. *Advances in Meteorology*, **2017**, 12, <https://doi.org/10.1155/2017/7314106>
- Zhang, Y., J. Chen, and Y. Du, 2017: Role of barrier layer in the developing phase of "Category 6" super typhoon Haiyan. *Satellite Oceanography and Meteorology*, **12**, <http://dx.doi.org/10.18063/SOM.2016.02.001>
- Zhang, Y., H. Xu, F. Qiao, and C. Dong, 2017: Seasonal variation of the global mixed layer depth: comparison between Argo data and FIO-ESM. *Frontiers of Earth Science*, <https://doi.org/10.1007/s11707-017-0631-6>
- Zhang, Z., P. Uotila, A. Stössel, T. Vihma, H. Liu, and Y. Zhong, 2017: Seasonal southern hemisphere multi-variable reflection of the southern annular mode in atmosphere and ocean reanalyses. *Climate Dynamics*, <https://doi.org/10.1007/s00382-017-3698-6>
- Zhang, Z., H. Xue, F. Chai, and Y. Chao, 2017: Variability of the Pacific North Equatorial

- Current from 1993 to 2012 based on a 1/8° Pacific model simulation. *Journal of Geophysical Research: Oceans*, **122**, 2382-2400, <http://dx.doi.org/10.1002/2016JC012143>
- Zhang, Z., Y. Zhang, and W. Wang, 2017: Three-compartment structure of subsurface-intensified mesoscale eddies in the ocean. *Journal of Geophysical Research: Oceans*, **122**, 1653-1664, <http://dx.doi.org/10.1002/2016JC012376>
- Zhang, Z., W. Zhao, B. Qiu, and J. Tian, 2017: Anticyclonic Eddy Sheddings from Kuroshio Loop and the Accompanying Cyclonic Eddy in the Northeastern South China Sea. *Journal of Physical Oceanography*, **47**, 1243-1259, <http://dx.doi.org/10.1175/jpo-d-16-0185.1>
- Zhao, R., X.-H. Zhu, and X. Guo, 2017: The impact of monsoon winds and mesoscale eddies on thermohaline structures and circulation patterns in the northern South China Sea. *Continental Shelf Research*, **143**, 240-256, <http://dx.doi.org/10.1016/j.csr.2016.06.009>
- Zheng, Z.-W., Q. Zheng, G. Gopalakrishnan, Y.-C. Kuo, and T.-K. Yeh, 2017: Response of upper ocean cooling off northeastern Taiwan to typhoon passages. *Ocean Modelling*, **115**, 105-118, <https://doi.org/10.1016/j.ocemod.2017.05.008>
- Zhou, C., X. Ding, J. Zhang, J. Yang, and Q. Ma, 2017: An objective algorithm for reconstructing the three-dimensional ocean temperature field based on Argo profiles and SST data. *Ocean Dynamics*, **67**, 1523-1533, <https://doi.org/10.1007/s10236-017-1104-x>
- Zilberman, N. V., 2017: Deep Argo: Sampling the Total Ocean Volume in State of the Climate in 2016. *Bull. Am. Meteorol. Soc.*, **98**, S73-S74, <https://doi.org/10.1175/2017BAMSStateoftheClimate.1>
- Zilberman, N. V., D. H. Roemmich, and S. T. Gille, 2017: The East Pacific Rise current: Topographic enhancement of the interior flow in the South Pacific Ocean. *Geophysical Research Letters*, **44**, 277-285, <http://dx.doi.org/10.1002/2016GL069039>
- Zuo, H., M. A. Balmaseda, and K. Mogensen, 2017: The new eddy-permitting ORAP5 ocean reanalysis: description, evaluation and uncertainties in climate signals. *Climate Dynamics*, **49**, 791-811, <https://doi.org/10.1007/s00382-015-2675-1>

2016 (407)

- Abernathy, R. P., I. Cerovecki, P. R. Holland, E. Newsom, M. Mazloff, and L. D. Talley, 2016: Water-mass transformation by sea ice in the upper branch of the Southern Ocean overturning. *Nature Geosci*, **9**, 596-601, <http://dx.doi.org/10.1038/ngeo2749>
- Aguiar-González, B., L. Ponsoni, H. Ridderinkhof, H. M. van Aken, W. P. M. de Ruijter, and L. R. M. Maas, 2016: Seasonal variation of the South Indian tropical gyre. *Deep Sea Research Part I: Oceanographic Research Papers*, **110**, 123-140, <http://dx.doi.org/10.1016/j.dsr.2016.02.004>
- Akhil, V. P., M. Lengaigne, F. Durand, J. Vialard, A. V. S. Chaitanya, M. G. Keerthi, V. V. Gopalakrishna, J. Boutin, and C. de Boyer Montégut, 2016: Assessment of seasonal and year-to-year surface salinity signals retrieved from SMOS and Aquarius missions in the Bay of Bengal. *International Journal of Remote Sensing*, **37**, 1089-1114, <http://dx.doi.org/10.1080/01431161.2016.1145362>

- Akhil, V. P., M. Lengaigne, J. Vialard, F. Durand, M. G. Keerthi, A. V. S. Chaitanya, F. Papa, V. V. Gopalakrishna, and C. de Boyer Montégut, 2016: A modeling study of processes controlling the Bay of Bengal sea surface salinity interannual variability. *Journal of Geophysical Research: Oceans*, **121**, 8471-8495, <http://dx.doi.org/10.1002/2016JC011662>
- Alexeev, V. A., V. V. Ivanov, I. A. Repina, O. Y. Lavrova, and S. V. Stanichny, 2016: Convective structures in the Lofoten Basin based on satellite and Argo data. *Izvestiya, Atmospheric and Oceanic Physics*, **52**, 1064-1077, <http://dx.doi.org/10.1134/S0001433816090036>
- Alvera-Azcárate, A., A. Barth, G. Parard, and J.-M. Beckers, 2016: Analysis of SMOS sea surface salinity data using DINEOF. *Remote Sensing of Environment*, **180**, 137-145, <http://dx.doi.org/10.1016/j.rse.2016.02.044>
- Androulidakis, Y., V. Kourafalou, G. Halliwell, M. Le Hénaff, H. Kang, M. Mehari, and R. Atlas, 2016: Hurricane interaction with the upper ocean in the Amazon-Orinoco plume region. *Ocean Dynamics*, 1-30, <http://dx.doi.org/10.1007/s10236-016-0997-0>
- Appen, W.-J. v., U. Schauer, T. Hattermann, and A. Beszczynska-Möller, 2016: Seasonal Cycle of Mesoscale Instability of the West Spitsbergen Current. *Journal of Physical Oceanography*, **46**, 1231-1254, <http://dx.doi.org/10.1175/JPO-D-15-0184.1>
- Artana, C., R. Ferrari, Z. Koenig, M. Saraceno, A. R. Piola, and C. Provost, 2016: Malvinas Current variability from Argo floats and satellite altimetry. *Journal of Geophysical Research: Oceans*, **121**, 4854-4872, <http://dx.doi.org/10.1002/2016JC011889>
- Arzel, O. and A. C. d. Verdière, 2016: Can We Infer Diapycnal Mixing Rates from the World Ocean Temperature–Salinity Distribution? *Journal of Physical Oceanography*, **46**, 3751-3775, <http://dx.doi.org/10.1175/jpo-d-16-0152.1>
- Aydoğdu, A., N. Pinardi, J. Pistoia, M. Martinelli, A. Belardinelli, and S. Sparnocchia, 2016: Assimilation experiments for the Fishery Observing System in the Adriatic Sea. *Journal of Marine Systems*, **162**, 126-136, <http://doi.org/10.1016/j.jmarsys.2016.03.002>
- Aznar, R., M. G. Sotillo, S. Cailleau, P. Lorente, B. Levier, A. Amo-Baladrón, G. Reffray, and E. Álvarez-Fanjul, 2016: Strengths and weaknesses of the CMEMS forecasted and reanalyzed solutions for the Iberia–Biscay–Ireland (IBI) waters. *Journal of Marine Systems*, **159**, 1-14, <http://dx.doi.org/10.1016/j.jmarsys.2016.02.007>
- Bachèlery, M.-L., S. Illig, and I. Dadou, 2016: Interannual variability in the South-East Atlantic Ocean, focusing on the Benguela Upwelling System: Remote versus local forcing. *Journal of Geophysical Research: Oceans*, **121**, 284-310, <http://dx.doi.org/10.1002/2015JC011168>
- Bai, P., Y. Gu, P. Li, and K. Wu, 2016: Modelling the upwelling off the east Hainan Island coast in summer 2010. *Chinese Journal of Oceanology and Limnology*, **34**, 1358-1373, <http://dx.doi.org/10.1007/s00343-016-5147-5>
- Barceló-Llull, B., E. Mason, A. Capet, and A. Pascual, 2016: Impact of vertical and horizontal advection on nutrient distribution in the southeast Pacific. *Ocean Science*, **12**, 1003-1011, <http://dx.doi.org/10.5194/os-12-1003-2016>
- Baringer, M. O., M. Lankhorst, D. Volkov, S. Garzoli, S. Dong, U. Send, and C. S. Meinen, 2016: Global Oceans: Meridional overturning circulation observations in the North Atlantic

- Ocean. *Bulletin of the American Meteorological Society*, **97**, S84 - S87, <http://dx.doi.org/10.1175/2016BAMSStateoftheClimate.1>
- Bartsev, S. I. and J. I. Gitelson, 2016: A mathematical model of the global processes of plastic degradation in the World Ocean with account for the surface temperature distribution. *Doklady Earth Sciences*, **466**, 153-156, <http://dx.doi.org/10.1134/S1028334X16020033>
- Belonenko, T. V., A. A. Kubrjakov, and S. V. Stanichny, 2016: Spectral characteristics of Rossby waves in the Northwestern Pacific based on satellite altimetry. *Izvestiya, Atmospheric and Oceanic Physics*, **52**, 920-928, <http://dx.doi.org/10.1134/S0001433816090073>
- Bender, M. L. and B. Jönsson, 2016: Is seasonal net community production in the South Pacific Subtropical Gyre anomalously low? *Geophysical Research Letters*, **43**, 9757-9763, <http://dx.doi.org/10.1002/2016GL070220>
- Bender, M. L., B. Tilbrook, N. Cassar, B. Jonsson, A. Poisson, and T. W. Trull, 2016: Ocean productivity south of Australia during spring and summer. *Deep Sea Research Part I: Oceanographic Research Papers*, **112**, 68-78, <http://dx.doi.org/10.1016/j.dsr.2016.02.018>
- Bensi, M., D. Velaoras, V. L. Meccia, and V. Cardin, 2016: Effects of the Eastern Mediterranean Sea circulation on the thermohaline properties as recorded by fixed deep-ocean observatories. *Deep Sea Research Part I: Oceanographic Research Papers*, **112**, 1-13, <http://dx.doi.org/10.1016/j.dsr.2016.02.015>
- Bhaskar, T. V. S. and D. Swain, 2016: Relation between Sonic Layer and Mixed layer depth in the Arabian Sea. *Indian Journal of Geo-Marine Sciences*, **45**, 1264-1271, <http://nopr.niscair.res.in/handle/123456789/35711>
- Bhaskar, T. V. S. U., C. Jayaram, P. R. R. E, and K. H. Rao, 2016: Spatio-temporal evolution of chlorophyll-a in the Bay of Bengal: a remote sensing and bio-argo perspective. *Proc. SPIE 9878, Remote Sensing of the Oceans and Inland Waters: Techniques, Applications, and Challenges*, 98780Z-98780Z-6, <http://dx.doi.org/10.1117/12.2223880>
- Bhowmick, S. A., N. Agarwal, M. M. Ali, C. M. Kishtawal, and R. Sharma, 2016: Role of ocean heat content in boosting post-monsoon tropical storms over Bay of Bengal during La-Niña events. *Climate Dynamics*, <https://doi.org/10.1007/s00382-016-3428-5>
- Billheimer, S. and L. D. Talley, 2016: Extraordinarily Weak Eighteen Degree Water Production Concurr with Strongly Positive North Atlantic Oscillation in Late Winter 2014/15, In State of the Climate in 2015. *Bulletin of the American Meteorological Society*, **97**, S78 - S79, <http://dx.doi.org/10.1175/2016BAMSStateoftheClimate.1>
- Billheimer, S. and L. D. Talley, 2016: Annual cycle and destruction of Eighteen Degree Water. *Journal of Geophysical Research: Oceans*, **121**, 6604-6617, <http://dx.doi.org/10.1002/2016JC011799>
- Bosse, A., P. Testor, L. Houpert, P. Damien, L. Prieur, D. Hayes, V. Taillandier, X. Durrieu de Madron, F. d'Ortenzio, L. Coppola, J. Karstensen, and L. Mortier, 2016: Scales and dynamics of Submesoscale Coherent Vortices formed by deep convection in the northwestern Mediterranean Sea. *Journal of Geophysical Research: Oceans*, **121**, 7716-7742, <http://dx.doi.org/10.1002/2016JC012144>

- Boucharel, J., F.-F. Jin, M. H. England, B. Dewitte, I. I. Lin, H.-C. Huang, and M. A. Balmaseda, 2016: Influence of Oceanic Intraseasonal Kelvin Waves on Eastern Pacific Hurricane Activity. *Journal of Climate*, **29**, 7941-7955, <http://dx.doi.org/10.1175/JCLI-D-16-0112.1>
- Boutin, J., Y. Chao, W. E. Asher, T. Delcroix, R. Drucker, K. Drushka, N. Kolodziejczyk, T. Lee, N. Reul, G. Reverdin, J. Schanze, A. Soloviev, L. Yu, J. Anderson, L. Brucker, E. Dinnat, A. Santos-Garcia, W. L. Jones, C. Maes, T. Meissner, W. Tang, N. Vinogradova, and B. Ward, 2016: Satellite and In Situ Salinity: Understanding Near-Surface Stratification and Subfootprint Variability. *Bulletin of the American Meteorological Society*, **97**, 1391-1407, <http://dx.doi.org/10.1175/BAMS-D-15-00032.1>
- Boutin, J., N. Martin, N. Kolodziejczyk, and G. Reverdin, 2016: Interannual anomalies of SMOS sea surface salinity. *Remote Sensing of Environment*, **180**, 128-136, <http://dx.doi.org/10.1016/j.rse.2016.02.053>
- Boyer, T., C. M. Domingues, S. A. Good, G. C. Johnson, J. M. Lyman, M. Ishii, V. Gouretski, J. K. Willis, J. Antonov, S. Wijffels, J. A. Church, R. Cowley, and N. L. Bindoff, 2016: Sensitivity of Global Upper-Ocean Heat Content Estimates to Mapping Methods, XBT Bias Corrections, and Baseline Climatologies. *Journal of Climate*, **29**, 4817-4842, <http://dx.doi.org/10.1175/JCLI-D-15-0801.1>
- Brasnett, B. and D. S. Colan, 2016: Assimilating Retrievals of Sea Surface Temperature from VIIRS and AMSR2. *Journal of Atmospheric and Oceanic Technology*, **33**, 361-375, <http://dx.doi.org/10.1175/JTECH-D-15-0093.1>
- Brennan, C. E., L. Bianucci, and K. Fennel, 2016: Sensitivity of Northwest North Atlantic Shelf Circulation to Surface and Boundary Forcing: A Regional Model Assessment. *Atmosphere-Ocean*, **54**, 230-247, <http://dx.doi.org/10.1080/07055900.2016.1147416>
- Brodeau, L. and T. Koenigk, 2016: Extinction of the northern oceanic deep convection in an ensemble of climate model simulations of the 20th and 21st centuries. *Climate Dynamics*, **46**, 2863-2882, <http://dx.doi.org/10.1007/s00382-015-2736-5>
- Buckley, M. W. and J. Marshall, 2016: Observations, inferences, and mechanisms of the Atlantic Meridional Overturning Circulation: A review. *Reviews of Geophysics*, **54**, 5-63, <http://dx.doi.org/10.1002/2015RG000493>
- Buijsman, M. C., J. K. Ansong, B. K. Arbic, J. G. Richman, J. F. Shriver, P. G. Timko, A. J. Wallcraft, C. B. Whalen, and Z. Zhao, 2016: Impact of Parameterized Internal Wave Drag on the Semidiurnal Energy Balance in a Global Ocean Circulation Model. *Journal of Physical Oceanography*, **46**, 1399-1419, <http://dx.doi.org/10.1175/JPO-D-15-0074.1>
- Buongiorno Nardelli, B., R. Droghei, and R. Santoleri, 2016: Multi-dimensional interpolation of SMOS sea surface salinity with surface temperature and in situ salinity data. *Remote Sensing of Environment*, **180**, 392-402, <http://dx.doi.org/10.1016/j.rse.2015.12.052>
- Burmeister, K., P. Brandt, and J. F. Lübbecke, 2016: Revisiting the Cause of the Eastern Equatorial Atlantic Cold Event in 2009. *Journal of Geophysical Research: Oceans*, **121**, 4777-4789, <http://dx.doi.org/10.1002/2016JC011719>
- Burns, J. M. and B. Subrahmanyam, 2016: Variability of the Seychelles-Chagos Thermocline Ridge Dynamics in Connection With ENSO and Indian Ocean Dipole. *IEEE Geoscience*

- and Remote Sensing Letters*, **13**, 2019-2023,
<http://dx.doi.org/10.1109/LGRS.2016.2621353>
- Burns, J. M., B. Subrahmanyam, E. S. Nyadjro, and V. S. N. Murty, 2016: Tropical cyclone activity over the Southwest Tropical Indian Ocean. *Journal of Geophysical Research: Oceans*, **121**, 6389-6402, <http://dx.doi.org/10.1002/2016JC011992>
- Bushinsky, S. M., S. R. Emerson, S. C. Riser, and D. D. Swift, 2016: Accurate oxygen measurements on modified Argo floats using in situ air calibrations. *Limnology and Oceanography: Methods*, 491-505, <http://dx.doi.org/10.1002/lom3.10107>
- Cabanes, C., V. Thierry, and C. Lagadec, 2016: Improvement of bias detection in Argo float conductivity sensors and its application in the North Atlantic. *Deep Sea Research Part I: Oceanographic Research Papers*, **114**, 128-136, <http://dx.doi.org/10.1016/j.dsr.2016.05.007>
- Caldeira, R., X. Couvelard, R. Vieira, C. Lucas, I. Sala, and I. V. Casanova, 2016: Challenges of building an operational ocean forecasting system for small island regions: regional to local. *Journal of Operational Oceanography*, **9**, 1-12, <https://doi.org/10.1080/1755876X.2016.1205304>
- Capet, A., E. V. Stanev, J. M. Beckers, J. W. Murray, and M. Grégoire, 2016: Decline of the Black Sea oxygen inventory. *Biogeosciences*, **13**, 1287-1297, <http://dx.doi.org/10.5194/bg-13-1287-2016>
- Capet, X., G. Roullet, P. Klein, and G. Maze, 2016: Intensification of Upper-Ocean Submesoscale Turbulence through Charney Baroclinic Instability. *Journal of Physical Oceanography*, **46**, 3365-3384, <http://dx.doi.org/10.1175/JPO-D-16-0050.1>
- Capó, E., A. Orfila, J. M. Sayol, M. Juza, M. G. Sotillo, D. Conti, G. Simarro, B. Mourre, L. Gómez-Pujol, and J. Tintoré, 2016: Assessment of operational models in the Balearic Sea during a MEDESS-4MS experiment. *Deep Sea Research Part II: Topical Studies in Oceanography*, **133**, 118-131, <http://dx.doi.org/10.1016/j.dsr2.2016.03.009>
- Carrassi, A., V. Guemas, F. J. Doblas-Reyes, D. Volpi, and M. Asif, 2016: Sources of skill in near-term climate prediction: generating initial conditions. *Climate Dynamics*, **47**, 3693-3712, <http://dx.doi.org/10.1007/s00382-016-3036-4>
- Carrier, M. J., H. E. Ngodock, S. R. Smith, I. Souopgui, and B. Bartels, 2016: Examining the Potential Impact of SWOT Observations in an Ocean Analysis–Forecasting System. *Monthly Weather Review*, **144**, 3767-3782, <http://dx.doi.org/10.1175/MWR-D-15-0361.1>
- Castellanos, P., E. J. D. Campos, I. Giddy, and W. Santis, 2016: Inter-comparison studies between high-resolution HYCOM simulation and observational data: The South Atlantic and the Agulhas leakage system. *Journal of Marine Systems*, **159**, 76-88, <http://dx.doi.org/10.1016/j.jmarsys.2016.02.010>
- Cerovečki, I. and D. Giglio, 2016: North Pacific Subtropical Mode Water Volume Decrease in 2006–09 Estimated from Argo Observations: Influence of Surface Formation and Basin-Scale Oceanic Variability. *Journal of Climate*, **29**, 2177-2199, <http://dx.doi.org/10.1175/JCLI-D-15-0179.1>
- Cerovečki, I. and M. R. Mazloff, 2016: The Spatiotemporal Structure of Diabatic Processes Governing the Evolution of Subantarctic Mode Water in the Southern Ocean. *Journal of Physical Oceanography*, **46**, 683-710, <http://dx.doi.org/10.1175/JPO-D-14-0243.1>

- Chakraborty, A. and A. Gangopadhyay, 2016: Development of a High-Resolution Multiscale Modeling and Prediction System for the Bay of Bengal, Part I: Climatology-Based Simulations. *Open Journal of Marine Science*, **6**, 145-176, <http://dx.doi.org/10.4236/ojms.2016.61013>
- Chen, C., B. Lei, Y.-L. Ma, and R. Duan, 2016: Investigating sound speed profile assimilation: An experiment in the Philippine Sea. *Ocean Engineering*, **124**, 135-140, <http://dx.doi.org/10.1016/j.oceaneng.2016.07.062>
- Chen, G. and X. Wang, 2016: Vertical Structure of Upper-Ocean Seasonality: Annual and Semiannual Cycles with Oceanographic Implications. *Journal of Climate*, **29**, 37-59, <http://dx.doi.org/10.1175/JCLI-D-14-00855.1>
- Chen, G., X. Wang, and C. Qian, 2016: Vertical Structure of Upper-Ocean Seasonality: Extratropical Spiral versus Tropical Phase Lock. *Journal of Climate*, **29**, 4021-4030, <http://dx.doi.org/10.1175/JCLI-D-15-0805.1>
- Chen, H., X. Yin, Y. Bao, and F. Qiao, 2016: Ocean satellite data assimilation experiments in FIO-ESM using ensemble adjustment Kalman filter. *Science China Earth Sciences*, **59**, 484-494, <http://dx.doi.org/10.1007/s11430-015-5187-2>
- Cheng, L., K. E. Trenberth, M. D. Palmer, J. Zhu, and J. P. Abraham, 2016: Observed and simulated full-depth ocean heat-content changes for 1970–2005. *Ocean Science*, **12**, 925-935, <https://doi.org/10.5194/os-12-925-2016>
- Cheng, L. and J. Zhu, 2016: Benefits of CMIP5 Multimodel Ensemble in Reconstructing Historical Ocean Subsurface Temperature Variations. *Journal of Climate*, **29**, 5393-5416, <http://dx.doi.org/10.1175/JCLI-D-15-0730.1>
- Cheng, Y., D. Putrasahan, L. Beal, and B. Kirtman, 2016: Quantifying Agulhas Leakage in a High-Resolution Climate Model. *Journal of Climate*, **29**, 6881-6892, <http://dx.doi.org/10.1175/JCLI-D-15-0568.1>
- Chi, J., P. Shi, W. Zhuang, X. Lin, X. Cheng, and Y. Du, 2016: Heat budget of the western Pacific warm pool and the contribution of eddy heat transport diagnosed from HYCOM assimilation. *Journal of Oceanography*, 1-11, <http://dx.doi.org/10.1007/s10872-016-0396-7>
- Chiswell, S. M., 2016: Mean Velocity Decomposition and Vertical Eddy Diffusivity of the Pacific Ocean from Surface GDP Drifters and 1000-m Argo Floats. *Journal of Physical Oceanography*, **46**, 1751-1768, <http://dx.doi.org/10.1175/JPO-D-15-0189.1>
- Chowdary, J. S., G. Srinivas, T. S. Fousiya, A. Parekh, C. Gnanaseelan, H. Seo, and J. MacKinnon, 2016: Representation of Bay of Bengal upper-ocean salinity in general circulation models. *Oceanography*, **29**, 38-49, <http://dx.doi.org/10.5670/oceanog.2016.37>
- Ciuffardi, T., E. Napolitano, R. Iacono, F. Reseghetti, G. Raiteri, and A. Bordone, 2016: Analysis of surface circulation structures along a frequently repeated XBT transect crossing the Ligurian and Tyrrhenian Seas. *Ocean Dynamics*, **66**, 767-783, <http://dx.doi.org/10.1007/s10236-016-0954-y>
- Corbett, C. M. and B. Subrahmanyam, 2016: Validation of Satellite-Derived Salinity in the Equatorial Pacific With Specific Emphasis on the 2014-15 ENSO Event. *IEEE Geoscience and Remote Sensing Letters*, **13**, 1979-1983, <https://doi.org/10.1109/LGRS.2016.2619980>

- Cornejo D'Ottone, M., L. Bravo, M. Ramos, O. Pizarro, J. Karstensen, M. Gallegos, M. Correa-Ramirez, N. Silva, L. Farias, and L. Karp-Boss, 2016: Biogeochemical characteristics of a long-lived anticyclonic eddy in the eastern South Pacific Ocean. *Biogeosciences*, **13**, 2971-2979, <http://dx.doi.org/10.5194/bg-13-2971-2016>
- Cornuelle, B., G. Gopalakrishnan, M. Mazloff, P. F. Worcester, and M. A. Dzieciuch, 2016: Ray travel times in the northern Philippine Sea circulation from state estimates. *The Journal of the Acoustical Society of America*, **139**, 2026-2026, <http://dx.doi.org/10.1121/1.4949976>
- Cummins, P. F., D. Masson, and O. A. Saenko, 2016: Vertical heat flux in the ocean: Estimates from observations and from a coupled general circulation model. *Journal of Geophysical Research: Oceans*, **121**, 3790-3802, <http://dx.doi.org/10.1002/2016JC011647>
- Cyr, F., H. van Haren, F. Mienis, G. Duineveld, and D. Bourgault, 2016: On the influence of cold-water coral mound size on flow hydrodynamics, and vice versa. *Geophysical Research Letters*, **43**, 775-783, <http://dx.doi.org/10.1002/2015GL067038>
- da Rocha Fragoso, M., G. V. de Carvalho, F. L. M. Soares, D. G. Faller, L. P. de Freitas Assad, R. Toste, L. M. B. Sancho, E. N. Passos, C. S. Böck, B. Reis, L. Landau, H. G. Arango, and A. M. Moore, 2016: A 4D-variational ocean data assimilation application for Santos Basin, Brazil. *Ocean Dynamics*, **66**, 419-434, <http://dx.doi.org/10.1007/s10236-016-0931-5>
- D'Addezio, J. M. and B. Subrahmanyam, 2016: Sea surface salinity variability in the Agulhas Current region inferred from SMOS and Aquarius. *Remote Sensing of Environment*, **180**, 440-452, <http://dx.doi.org/10.1016/j.rse.2016.02.006>
- D'Addezio, J. M. and B. Subrahmanyam, 2016: The role of salinity on the interannual variability of the Seychelles-Chagos thermocline ridge. *Remote Sensing of Environment*, **180**, 178-192, <http://dx.doi.org/10.1016/j.rse.2016.02.051>
- Dall'Olmo, G., J. Dingle, L. Polimene, R. J. W. Brewin, and H. Claustre, 2016: Substantial energy input to the mesopelagic ecosystem from the seasonal mixed-layer pump. *Nature Geosci*, **9**, 820-823, <http://dx.doi.org/10.1038/ngeo2818>
- Damerell, G. M., K. J. Heywood, A. F. Thompson, U. Binetti, and J. Kaiser, 2016: The vertical structure of upper ocean variability at the Porcupine Abyssal Plain during 2012–2013. *Journal of Geophysical Research: Oceans*, **121**, 3075-3089, <http://dx.doi.org/10.1002/2015JC011423>
- Danabasoglu, G., S. G. Yeager, W. M. Kim, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, R. Bleck, C. Böning, A. Bozec, V. M. Canuto, C. Cassou, E. Chassignet, A. C. Coward, S. Danilov, N. Diansky, H. Drange, R. Farneti, E. Fernandez, P. G. Fogli, G. Forget, Y. Fujii, S. M. Griffies, A. Gusev, P. Heimbach, A. Howard, M. Ilicak, T. Jung, A. R. Karspeck, M. Kelley, W. G. Large, A. Leboissetier, J. Lu, G. Madec, S. J. Marsland, S. Masina, A. Navarra, A. J. G. Nurser, A. Pirani, A. Romanou, D. Salas y Méliá, B. L. Samuels, M. Scheinert, D. Sidorenko, S. Sun, A.-M. Treguier, H. Tsujino, P. Uotila, S. Valcke, A. Voldoire, Q. Wang, and I. Yashayaev, 2016: North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part II: Inter-annual to decadal variability. *Ocean Modelling*, **97**, 65-90, <http://dx.doi.org/10.1016/j.ocemod.2015.11.007>

- Dandapat, S. and A. Chakraborty, 2016: Mesoscale Eddies in the Western Bay of Bengal as Observed From Satellite Altimetry in 1993-2014: Statistical Characteristics, Variability and Three-Dimensional Properties. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **9**, 5044-5054, <http://dx.doi.org/10.1109/JSTARS.2016.2585179>
- de Jong, M. F. and L. de Steur, 2016: Strong winter cooling over the Irminger Sea in winter 2014-2015, exceptional deep convection, and the emergence of anomalously low SST. *Geophysical Research Letters*, **43**, 7106-7113, <http://dx.doi.org/10.1002/2016GL069596>
- de Lavergne, C., G. Madec, X. Capet, G. Maze, and F. Roquet, 2016: Getting to the bottom of the ocean. *Nature Geosci*, **9**, 857-858, <http://dx.doi.org/10.1038/ngeo2850>
- Declerck, A., Y. Ourmières, and A. Molcard, 2016: Assessment of the coastal dynamics in a nested zoom and feedback on the boundary current: the North-Western Mediterranean Sea case. *Ocean Dynamics*, **66**, 1529-1542, <http://dx.doi.org/10.1007/s10236-016-0985-4>
- Deng, Z. a., G. Wei, T. Yu, H. Wei, L. Kang, and L. Han, 2016: The diapycnal mixing in the upper Pacific estimated from GTSP observations. *Acta Oceanologica Sinica*, **35**, 46-52, <http://dx.doi.org/10.1007/s13131-016-0795-z>
- Desbruyères, D., E. L. McDonagh, and B. A. King, 2016: Observational Advances in Estimates of Oceanic Heating. *Current Climate Change Reports*, 1-8, <http://dx.doi.org/10.1007/s40641-016-0037-7>
- Dolinar, E. K., X. Dong, and B. Xi, 2016: Evaluation and intercomparison of clouds, precipitation, and radiation budgets in recent reanalyses using satellite-surface observations. *Climate Dynamics*, **46**, 2123-2144, <http://dx.doi.org/10.1007/s00382-015-2693-z>
- Dong, D., X. Yang, X. Li, and Z. Li, 2016: SAR Observation of Eddy-Induced Mode-2 Internal Solitary Waves in the South China Sea. *IEEE Transactions on Geoscience and Remote Sensing*, **54**, 6674-6686, <http://dx.doi.org/10.1109/TGRS.2016.2587752>
- Donohue, K. A., D. R. Watts, P. Hamilton, R. Leben, M. Kennelly, and A. Lugo-Fernández, 2016: Gulf of Mexico Loop Current path variability. *Dynamics of Atmospheres and Oceans*, **76, Part 2**, 174-194, <http://doi.org/10.1016/j.dynatmoce.2015.12.003>
- Donohue, S. M. and M. W. Stacey, 2016: Simulation of the 2014 Anomalous Warming in the Northeast Pacific. *Atmosphere-Ocean*, **54**, 457-468, <http://dx.doi.org/10.1080/07055900.2016.1197096>
- Droghei, R., B. B. Nardelli, and R. Santoleri, 2016: Combining In Situ and Satellite Observations to Retrieve Salinity and Density at the Ocean Surface. *Journal of Atmospheric and Oceanic Technology*, **33**, 1211-1223, <http://dx.doi.org/10.1175/JTECH-D-15-0194.1>
- Drucker, R. and S. C. Riser, 2016: In situ phase-domain calibration of oxygen Optodes on profiling floats. *Methods in Oceanography*, **17**, 296-318, <https://doi.org/10.1016/j.mio.2016.09.007>
- Drushka, K., W. E. Asher, B. Ward, and K. Walesby, 2016: Understanding the formation and evolution of rain-formed fresh lenses at the ocean surface. *Journal of Geophysical Research: Oceans*, **121**, 2673-2689, <http://dx.doi.org/10.1002/2015JC011527>

- Dufois, F., N. J. Hardman-Mountford, J. Greenwood, A. J. Richardson, M. Feng, and R. J. Matear, 2016: Anticyclonic eddies are more productive than cyclonic eddies in subtropical gyres because of winter mixing. *Science Advances*, **2**, <http://dx.doi.org/10.1126/sciadv.1600282>
- Dukhovskoy, D. S., P. G. Myers, G. Platov, M.-L. Timmermans, B. Curry, A. Proshutinsky, J. L. Bamber, E. Chassignet, X. Hu, C. M. Lee, and R. Somavilla, 2016: Greenland freshwater pathways in the sub-Arctic Seas from model experiments with passive tracers. *Journal of Geophysical Research: Oceans*, **121**, 877-907, <http://dx.doi.org/10.1002/2015JC011290>
- Durack, P. J., T. Lee, N. T. Vinogradova, and D. Stammer, 2016: Keeping the lights on for global ocean salinity observation. *Nature Clim. Change*, **6**, 228-231, <http://dx.doi.org/10.1038/nclimate2946>
- Durski, S. M., A. Kurapov, J. Zhang, and G. G. Panteleev, 2016: Circulation in the Eastern Bering Sea: Inferences from a 2-km-resolution model. *Deep Sea Research Part II: Topical Studies in Oceanography*, **134**, 48-64, <http://dx.doi.org/10.1016/j.dsr2.2015.02.002>
- Erickson, Z. K., A. F. Thompson, N. Cassar, J. Sprintall, and M. R. Mazloff, 2016: An advective mechanism for deep chlorophyll maxima formation in southern Drake Passage. *Geophysical Research Letters*, **43**, 10,846-10,855, <http://dx.doi.org/10.1002/2016GL070565>
- Estournel, C., P. Testor, P. Damien, F. D'Ortenzio, P. Marsaleix, P. Conan, F. Kessouri, X. Durrieu de Madron, L. Coppola, J.-M. Lellouche, S. Belamari, L. Mortier, C. Ulses, M.-N. Bouin, and L. Prieur, 2016: High resolution modeling of dense water formation in the north-western Mediterranean during winter 2012–2013: Processes and budget. *Journal of Geophysical Research: Oceans*, **121**, 5367-5392, <http://dx.doi.org/10.1002/2016JC011935>
- Feucher, C., G. Maze, and H. Mercier, 2016: Mean Structure of the North Atlantic Subtropical Permanent Pycnocline from In Situ Observations. *Journal of Atmospheric and Oceanic Technology*, **33**, 1285-1308, <http://dx.doi.org/10.1175/JTECH-D-15-0192.1>
- Fiedler, B., D. S. Grundle, F. Schütte, J. Karstensen, C. R. Löscher, H. Hauss, H. Wagner, A. Loginova, R. Kiko, P. Silva, T. Tanhua, and A. Körtzinger, 2016: Oxygen utilization and downward carbon flux in an oxygen-depleted eddy in the eastern tropical North Atlantic. *Biogeosciences*, **13**, 5633-5647, <http://dx.doi.org/10.5194/bg-13-5633-2016>
- Fore, A. G., S. H. Yueh, W. Tang, B. W. Stiles, and A. K. Hayashi, 2016: Combined Active/Passive Retrievals of Ocean Vector Wind and Sea Surface Salinity With SMAP. *IEEE Transactions on Geoscience and Remote Sensing*, **54**, 7396-7404, <http://dx.doi.org/10.1109/TGRS.2016.2601486>
- Fousiya, T. S., A. Parekh, and C. Gnanaseelan, 2016: Interannual variability of upper ocean stratification in Bay of Bengal: observational and modeling aspects. *Theoretical and Applied Climatology*, **126**, 285-301, <http://dx.doi.org/10.1007/s00704-015-1574-z>
- Franz, G. A. S., P. Leitao, A. dos Santos, M. Juliano, and R. Neves, 2016: From regional to local scale modelling on the south-eastern Brazilian shelf: case study of Paranaguá estuarine system. *Brazilian Journal of Oceanography*, **64**, 277-293, <http://dx.doi.org/10.1590/S1679-875920161195806403>

- Fратиани, C., N. Pinardi, F. Lalli, S. Simoncelli, G. Coppini, V. Pesarino, A. Bruschi, M. L. Cassese, and M. Drudi, 2016: Operational oceanography for the Marine Strategy Framework Directive: the case of the mixing indicator. *Journal of Operational Oceanography*, **9**, s223-s233, <http://dx.doi.org/10.1080/1755876X.2015.1115634>
- Frederikse, T., R. Riva, M. Kleinherenbrink, Y. Wada, M. van den Broeke, and B. Marzeion, 2016: Closing the sea level budget on a regional scale: Trends and variability on the Northwestern European continental shelf. *Geophysical Research Letters*, **43**, 10,864-10,872, <http://dx.doi.org/10.1002/2016GL070750>
- Fröb, F., A. Olsen, K. Våge, G. W. K. Moore, I. Yashayaev, E. Jeansson, and B. Rajasakaren, 2016: Irminger Sea deep convection injects oxygen and anthropogenic carbon to the ocean interior. *Nature Communications*, **7**, 13244, <http://dx.doi.org/10.1038/ncomms13244>
- Fu, D., H. Luan, D. Pan, Y. Zhang, L. a. Wang, D. Liu, Y. Ding, and X. Li, 2016: Impact of two typhoons on the marine environment in the Yellow Sea and East China Sea. *Chinese Journal of Oceanology and Limnology*, **34**, 871-884, <http://dx.doi.org/10.1007/s00343-016-5049-6>
- Fu, L.-L., 2016: On the decadal trend of global mean sea level and its implication on ocean heat content change. *Frontiers in Marine Science*, **3**, <http://dx.doi.org/10.3389/fmars.2016.00037>
- Gaillard, F., T. Reynaud, V. Thierry, N. Kolodziejczyk, and K. v. Schuckmann, 2016: In Situ-Based Reanalysis of the Global Ocean Temperature and Salinity with ISAS: Variability of the Heat Content and Steric Height. *Journal of Climate*, **29**, 1305-1323, <http://dx.doi.org/10.1175/JCLI-D-15-0028.1>
- Gao, W., P. Li, S.-P. Xie, L. Xu, and C. Liu, 2016: Multicore structure of the North Pacific subtropical mode water from enhanced Argo observations. *Geophysical Research Letters*, **43**, 1249-1255, <http://dx.doi.org/10.1002/2015GL067495>
- Garraffo, Z. D., H.-C. Kim, A. Mehra, T. Spindler, I. Rivin, and H. L. Tolman, 2016: Modeling of ^{137}Cs as a Tracer in a Regional Model for the Western Pacific, after the Fukushima–Daiichi Nuclear Power Plant Accident of March 2011. *Weather and Forecasting*, **31**, 553-579, <http://dx.doi.org/10.1175/WAF-D-13-00101.1>
- Gasparin, F. and D. Roemmich, 2016: The strong freshwater anomaly during the onset of the 2015/2016 El Niño. *Geophysical Research Letters*, **43**, 6452-6460, <http://dx.doi.org/10.1002/2016GL069542>
- Germineaud, C., A. Ganachaud, J. Sprintall, S. Cravatte, G. Eldin, M. S. Albery, and E. Privat, 2016: Pathways and Water Mass Properties of the Thermocline and Intermediate Waters in the Solomon Sea. *Journal of Physical Oceanography*, **46**, 3031-3049, <http://dx.doi.org/10.1175/JPO-D-16-0107.1>
- Giese, B. S., H. F. Seidel, G. P. Compo, and P. D. Sardeshmukh, 2016: An ensemble of ocean reanalyses for 1815–2013 with sparse observational input. *Journal of Geophysical Research: Oceans*, **121**, 6891-6910, <http://dx.doi.org/10.1002/2016JC012079>
- Giglio, D. and G. C. Johnson, 2016: Subantarctic and Polar Fronts of the Antarctic Circumpolar Current and Southern Ocean Heat and Freshwater Content Variability: A View from Argo. *Journal of Physical Oceanography*, **46**, 749-768, <http://dx.doi.org/10.1175/JPO-D-15-0131.1>

- Gladyshev, S. V., V. S. Gladyshev, A. S. Falina, and A. A. Sarafanov, 2016: Winter convection in the Irminger Sea in 2004–2014. *Oceanology*, **56**, 326–335, <http://dx.doi.org/10.1134/S0001437016030073>
- Gleckler, P. J., P. J. Durack, R. J. Stouffer, G. C. Johnson, and C. E. Forest, 2016: Industrial-era global ocean heat uptake doubles in recent decades. *Nature Clim. Change*, **6**, 394–398, <http://dx.doi.org/10.1038/nclimate2915>
- González-Gambau, V., E. Olmedo, A. Turiel, J. Martínez, J. Ballabrera-Poy, M. Portabella, and M. Piles, 2016: Enhancing SMOS brightness temperatures over the ocean using the nodal sampling image reconstruction technique. *Remote Sensing of Environment*, **180**, 205–220, <http://dx.doi.org/10.1016/j.rse.2015.12.032>
- Gordon, A. L., E. Shroyer, A. Mahadevan, D. Sengupta, and M. Freilich, 2016: Bay of Bengal: 2013 northeast monsoon upper-ocean circulation. *Oceanography*, **29**, 82–91, <http://dx.doi.org/10.5670/oceanog.2016.41>
- Grist, J. P., S. A. Josey, Z. L. Jacobs, R. Marsh, B. Sinha, and E. Van Sebille, 2016: Extreme air–sea interaction over the North Atlantic subpolar gyre during the winter of 2013–2014 and its sub-surface legacy. *Climate Dynamics*, **46**, 4027–4045, <http://dx.doi.org/10.1007/s00382-015-2819-3>
- Grist, J. P., S. A. Josey, J. D. Zika, D. G. Evans, and N. Skliris, 2016: Assessing recent air–sea freshwater flux changes using a surface temperature–salinity space framework. *Journal of Geophysical Research: Oceans*, **121**, 8787–8806, <http://dx.doi.org/10.1002/2016JC012091>
- Groeskamp, S., R. P. Abernathey, and A. Klocker, 2016: Water mass transformation by cabbeling and thermobaricity. *Geophysical Research Letters*, **43**, 10,835–10,845, <http://dx.doi.org/10.1002/2016GL070860>
- Häkkinen, S., P. B. Rhines, and D. L. Worthen, 2016: Warming of the Global Ocean: Spatial Structure and Water-Mass Trends. *Journal of Climate*, **29**, 4949–4963, <http://dx.doi.org/10.1175/JCLI-D-15-0607.1>
- Hamon, M., J. Beuquier, S. Somot, J. M. Lellouche, E. Greiner, G. Jordà, M. N. Bouin, T. Arsouze, K. Béranger, F. Sevault, C. Dubois, M. Drevillon, and Y. Drillet, 2016: Design and validation of MEDRYS, a Mediterranean Sea reanalysis over the period 1992–2013. *Ocean Science*, **12**, 577–599, <https://doi.org/10.5194/os-12-577-2016>
- Han, S., N. Hirose, N. Usui, and Y. Miyazawa, 2016: Multi-model ensemble estimation of volume transport through the straits of the East/Japan Sea. *Ocean Dynamics*, **66**, 59–76, <http://dx.doi.org/10.1007/s10236-015-0896-9>
- Hátún, H., K. Lohmann, D. Matei, J. H. Jungclaus, S. Pacariz, M. Bersch, A. Gislason, J. Ólafsson, and P. C. Reid, 2016: An inflated subpolar gyre blows life toward the northeastern Atlantic. *Progress in Oceanography*, **147**, 49–66, <http://dx.doi.org/10.1016/j.pocean.2016.07.009>
- Hausmann, U., A. Czaja, and J. Marshall, 2016: Estimates of Air–Sea Feedbacks on Sea Surface Temperature Anomalies in the Southern Ocean. *Journal of Climate*, **29**, 439–454, <http://dx.doi.org/10.1175/JCLI-D-15-0015.1>
- Hauss, H., S. Christiansen, F. Schütte, R. Kiko, M. Edvam Lima, E. Rodrigues, J. Karstensen, C. R. Löscher, A. Körtzinger, and B. Fiedler, 2016: Dead zone or oasis in the open ocean? Zooplankton distribution and migration in low-oxygen modewater eddies.

- Biogeosciences*, **13**, 1977-1989, <http://dx.doi.org/10.5194/bg-13-1977-2016>
- He, Q., H. Zhan, S. Cai, and Z. Li, 2016: Eddy effects on surface chlorophyll in the northern South China Sea: Mechanism investigation and temporal variability analysis. *Deep Sea Research Part I: Oceanographic Research Papers*, **112**, 25-36, <http://dx.doi.org/10.1016/j.dsr.2016.03.004>
- He, Q., H. Zhan, S. Cai, and G. Zha, 2016: On the asymmetry of eddy-induced surface chlorophyll anomalies in the southeastern Pacific: The role of eddy-Ekman pumping. *Progress in Oceanography*, **141**, 202-211, <http://dx.doi.org/10.1016/j.pocean.2015.12.012>
- Hennon, T. D., S. C. Riser, and S. Mecking, 2016: Profiling float-based observations of net respiration beneath the mixed layer. *Global Biogeochemical Cycles*, **30**, 920-932, <http://dx.doi.org/10.1002/2016GB005380>
- Hernandez, O., J. Jouanno, and F. Durand, 2016: Do the Amazon and Orinoco freshwater plumes really matter for hurricane-induced ocean surface cooling? *Journal of Geophysical Research: Oceans*, **121**, 2119-2141, <http://dx.doi.org/10.1002/2015JC011021>
- Hernández-Guerra, A. and L. D. Talley, 2016: Meridional overturning transports at 30°S in the Indian and Pacific Oceans in 2002–2003 and 2009. *Progress in Oceanography*, **146**, 89-120, <http://dx.doi.org/10.1016/j.pocean.2016.06.005>
- Hernández-Molina, F. J., A. Wählin, M. Bruno, G. Ercilla, E. Llave, N. Serra, G. Rosón, P. Puig, M. Rebesco, D. Van Rooij, D. Roque, C. González-Pola, F. Sánchez, M. Gómez, B. Preu, T. Schwenk, T. J. J. Hanebuth, R. F. Sánchez Leal, J. García-Lafuente, R. E. Brackenridge, C. Juan, D. A. V. Stow, and J. M. Sánchez-González, 2016: Oceanographic processes and morphosedimentary products along the Iberian margins: A new multidisciplinary approach. *Marine Geology*, **378**, 127-156, <http://dx.doi.org/10.1016/j.margeo.2015.12.008>
- Hiraike, Y., Y. Tanaka, and H. Hasumi, 2016: Subduction of Pacific Antarctic Intermediate Water in an eddy-resolving model. *Journal of Geophysical Research: Oceans*, **121**, 133-147, <http://dx.doi.org/10.1002/2015JC010802>
- Horii, T., I. Ueki, K. Ando, T. Hasegawa, K. Mizuno, and A. Seiki, 2016: Impact of intraseasonal salinity variations on sea surface temperature in the eastern equatorial Indian Ocean. *Journal of Oceanography*, **72**, 313-326, <http://dx.doi.org/10.1007/s10872-015-0337-x>
- Horii, T., I. Ueki, F. Syamsudin, I. Sofian, and K. Ando, 2016: Intraseasonal coastal upwelling signal along the southern coast of Java observed using Indonesian tidal station data. *Journal of Geophysical Research: Oceans*, **121**, 2690-2708, <http://dx.doi.org/10.1002/2015JC010886>
- Hosoda, S., M. Nonaka, T. Tomita, B. Taguchi, H. Tomita, and N. Iwasaka, 2016: Impact of downward heat penetration below the shallow seasonal thermocline on the sea surface temperature. "Hot Spots" in the Climate System: New Developments in the Extratropical Ocean-Atmosphere Interaction Research, H. Nakamura, A. Isobe, S. Minobe, H. Mitsudera, M. Nonaka, and T. Suga, Eds., Springer Japan, 73-89, http://dx.doi.org/10.1007/978-4-431-56053-1_5.
- Hosoda, K. and F. Sakaida, 2016: Global Daily High-Resolution Satellite-Based Foundation Sea Surface Temperature Dataset: Development and Validation against Two

- Definitions of Foundation SST. *Remote Sensing*, **8**, 962,
<https://doi.org/10.3390/rs8110962>
- Houpert, L., X. Durrieu de Madron, P. Testor, A. Bosse, F. D'Ortenzio, M. N. Bouin, D. Dausse, H. Le Goff, S. Kunesch, M. Labaste, L. Coppola, L. Mortier, and P. Raimbault, 2016: Observations of open-ocean deep convection in the northwestern Mediterranean Sea: Seasonal and interannual variability of mixing and deep water masses for the 2007-2013 Period. *Journal of Geophysical Research: Oceans*, **121**, 8139-8171, <http://dx.doi.org/10.1002/2016JC011857>
- Hsin, Y.-C., 2016: Trends of the Pathways and Intensities of Surface Equatorial Current System in the North Pacific Ocean. *Journal of Climate*, **29**, 6693-6710, <http://dx.doi.org/10.1175/JCLI-D-15-0850.1>
- Hsu, P. C., C. C. Lin, S. J. Huang, and C. R. Ho, 2016: Effects of Cold Eddy on Kuroshio Meander and Its Surface Properties, East of Taiwan. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **9**, 5055-5063, <http://dx.doi.org/10.1109/JSTARS.2016.2524698>
- Hu, S., D. Hu, C. Guan, F. Wang, L. Zhang, F. Wang, and Q. Wang, 2016: Interannual Variability of the Mindanao Current/Undercurrent in Direct Observations and Numerical Simulations. *Journal of Physical Oceanography*, **46**, 483-499, <http://dx.doi.org/10.1175/JPO-D-15-0092.1>
- Hu, S. and J. Sprintall, 2016: Interannual variability of the Indonesian Throughflow: The salinity effect. *Journal of Geophysical Research: Oceans*, **121**, 2596-2615, <http://dx.doi.org/10.1002/2015JC011495>
- Hu, Z.-Z., A. Kumar, and B. Huang, 2016: Spatial distribution and the interdecadal change of leading modes of heat budget of the mixed-layer in the tropical Pacific and the association with ENSO. *Climate Dynamics*, **46**, 1753-1768, <http://dx.doi.org/10.1007/s00382-015-2672-4>
- Huang, X., Z. Chen, W. Zhao, Z. Zhang, C. Zhou, Q. Yang, and J. Tian, 2016: An extreme internal solitary wave event observed in the northern South China Sea. *Scientific Reports*, **6**, 30041, <http://dx.doi.org/10.1038/srep30041>
- Hutchinson, K., S. Swart, A. Meijers, I. Ansorge, and S. Speich, 2016: Decadal-scale thermohaline variability in the Atlantic sector of the Southern Ocean. *Journal of Geophysical Research: Oceans*, **121**, 3171-3189, <http://dx.doi.org/10.1002/2015JC011491>
- Iakovlev, N. G., E. M. Volodin, and A. S. Gritsun, 2016: Simulation of the spatiotemporal variability of the World Ocean sea surface height by the INM climate models. *Izvestiya, Atmospheric and Oceanic Physics*, **52**, 376-385, <http://dx.doi.org/10.1134/S0001433816040125>
- Ignatov, A., X. Zhou, B. Petrenko, X. Liang, Y. Kihai, P. Dash, J. Stroup, J. Sapper, and P. DiGiacomo, 2016: AVGRR GAC SST Reanalysis Version 1 (RAN1). *Remote Sensing* **8**, <http://dx.doi.org/10.3390/rs8040315>
- Inoue, R., V. Faure, and S. Kouketsu, 2016: Float observations of an anticyclonic eddy off Hokkaido. *Journal of Geophysical Research: Oceans*, **121**, 6103-6120, <http://dx.doi.org/10.1002/2016JC011698>
- Inoue, R., M. C. Honda, T. Fujiki, K. Matsumoto, S. Kouketsu, T. Suga, and T. Saino, 2016:

- Western North Pacific Integrated Physical-Biogeochemical Ocean Observation Experiment (INBOX): Part 2. Biogeochemical responses to eddies and typhoons revealed from the S1 mooring and shipboard measurements. *Journal of Marine Research*, **74**, 71-99, <https://doi.org/10.1357/002224016819257335>
- Inoue, R., M. Kitamura, and T. Fujiki, 2016: Diel vertical migration of zooplankton at the S1 biogeochemical mooring revealed from acoustic backscattering strength. *Journal of Geophysical Research: Oceans*, **121**, 1031-1050, <http://dx.doi.org/10.1002/2015JC011352>
- Inoue, R. and S. Kouketsu, 2016: Physical oceanographic conditions around the S1 mooring site. *Journal of Oceanography*, **72**, 453-464, <http://dx.doi.org/10.1007/s10872-015-0342-0>
- Inoue, R., T. Suga, S. Kouketsu, T. Kita, S. Hosoda, Y. Kobayashi, K. Sato, H. Nakajima, and T. Kawano, 2016: Western North Pacific Integrated Physical-Biogeochemical Ocean Observation Experiment (INBOX): Part 1. Specifications and chronology of the S1-INBOX floats. *Journal of Marine Research*, **74**, 43-69, <http://dx.doi.org/10.1357/002224016819257344>
- Isern-Fontanet, J., E. Olmedo, A. Turiel, J. Ballabrera-Poy, and E. García-Ladona, 2016: Retrieval of eddy dynamics from SMOS sea surface salinity measurements in the Algerian Basin (Mediterranean Sea). *Geophysical Research Letters*, **43**, 6427-6434, <http://dx.doi.org/10.1002/2016GL069595>
- Jena, B., 2016: Satellite remote sensing of the island mass effect on the Sub-Antarctic Kerguelen Plateau, Southern Ocean. *Frontiers of Earth Science*, **10**, 479-486, <http://dx.doi.org/10.1007/s11707-016-0561-8>
- Jia, W., D. Wang, N. Pinardi, S. Simoncelli, A. Storto, and S. Masina, 2016: A Quality Control Procedure for Climatological Studies Using Argo Data in the North Pacific Western Boundary Current Region. *Journal of Atmospheric and Oceanic Technology*, **33**, 2717-2733, <http://dx.doi.org/10.1175/JTECH-D-15-0140.1>
- Jochumsen, K., S. M. Schnurr, and D. Quadfasel, 2016: Bottom temperature and salinity distribution and its variability around Iceland. *Deep Sea Research Part I: Oceanographic Research Papers*, **111**, 79-90, <http://dx.doi.org/10.1016/j.dsr.2016.02.009>
- Johnson, B. K., F. O. Bryan, S. A. Grodsky, and J. A. Carton, 2016: Climatological Annual Cycle of the Salinity Budgets of the Subtropical Maxima. *Journal of Physical Oceanography*, **46**, 2981-2994, <http://dx.doi.org/10.1175/JPO-D-15-0202.1>
- Johnson, G. C. and A. N. Birnbaum, 2016: Equatorial Pacific Thermostat response to El Niño. *Journal of Geophysical Research: Oceans*, **121**, 8368-8378, <http://dx.doi.org/10.1002/2016JC012304>
- Johnson, G. C. and J. M. Lyman, 2016: Global Oceans: Sea Surface Salinity, In State of the Climate in 2015. *Bulletin of the American Meteorological Society*, **97**, S71 - S72, <http://dx.doi.org/10.1175/2016BAMSStateoftheClimate.1>
- Johnson, G. C., J. M. Lyman, T. Boyer, C. M. Domingues, M. Ishii, R. Killick, D. Monselesan, and S. E. Wijffels, 2016: Global Oceans: Ocean heat content, In State of the Climate in 2015. *Bulletin of the American Meteorological Society*, **97**, S66 - S70, <http://dx.doi.org/10.1175/2016BAMSStateoftheClimate.1>

- Johnson, G. C., J. M. Lyman, and N. G. Loeb, 2016: Improving estimates of Earth's energy imbalance. *Nature Clim. Change*, **6**, 639-640, <http://dx.doi.org/10.1038/nclimate3043>
- Johnson, K. S. and H. Claustre, 2016: Bringing Biogeochemistry into the Argo Age. *Eos*, **97**, <https://doi.org/10.1029/2016EO062427>
- Johnson, L., C. M. Lee, and E. A. D'Asaro, 2016: Global Estimates of Lateral Springtime Restratification. *Journal of Physical Oceanography*, **46**, 1555-1573, <http://dx.doi.org/10.1175/JPO-D-15-0163.1>
- Jones, D. C., A. J. S. Meijers, E. Shuckburgh, J.-B. Sallée, P. Haynes, E. K. McAufield, and M. R. Mazloff, 2016: How does Subantarctic Mode Water ventilate the Southern Hemisphere subtropics? *Journal of Geophysical Research: Oceans*, **121**, 6558-6582, <http://dx.doi.org/10.1002/2016JC011680>
- Juza, M., B. Mourre, L. Renault, S. Gómara, K. Sebastián, S. Lora, J. P. Beltran, B. Frontera, B. Garau, C. Troupin, M. Torner, E. Heslop, B. Casas, R. Escudier, G. Vizoso, and J. Tintoré, 2016: SOCIB operational ocean forecasting system and multi-platform validation in the Western Mediterranean Sea. *Journal of Operational Oceanography*, **9**, s155-s166, <http://dx.doi.org/10.1080/1755876X.2015.1117764>
- Kaeriyama, H., Y. Shimizu, T. Setou, Y. Kumamoto, M. Okazaki, D. Ambe, and T. Ono, 2016: Intrusion of Fukushima-derived radiocaesium into subsurface water due to formation of mode waters in the North Pacific. *Scientific Reports*, **6**, 22010, <http://dx.doi.org/10.1038/srep22010>
- Kang, S. K., Y. H. Seung, J. J. Park, J.-H. Park, J. H. Lee, E. J. Kim, Y. H. Kim, and M.-S. Suk, 2016: Seasonal Variability in Middepth Gyral Circulation Patterns in the Central East/Japan Sea as Revealed by Long-Term Argo Data. *Journal of Physical Oceanography*, **46**, 937-946, <http://dx.doi.org/10.1175/JPO-D-15-0157.1>
- Karspeck, A. R., 2016: An Ensemble Approach for the Estimation of Observational Error Illustrated for a Nominal 1° Global Ocean Model. *Monthly Weather Review*, **144**, 1713-1728, <http://dx.doi.org/10.1175/MWR-D-14-00336.1>
- Kassis, D., E. Krasakopoulou, G. Korres, G. Petihakis, and G. S. Triantafyllou, 2016: Hydrodynamic features of the South Aegean Sea as derived from Argo T/S and dissolved oxygen profiles in the area. *Ocean Dynamics*, **66**, 1449-1466, <http://dx.doi.org/10.1007/s10236-016-0987-2>
- Katavouta, A. and K. R. Thompson, 2016: Downscaling ocean conditions with application to the Gulf of Maine, Scotian Shelf and adjacent deep ocean. *Ocean Modelling*, **104**, 54-72, <http://dx.doi.org/10.1016/j.ocemod.2016.05.007>
- Kato, S., K.-M. Xu, T. Wong, N. G. Loeb, F. G. Rose, K. E. Trenberth, and T. J. Thorsen, 2016: Investigation of the Residual in Column-Integrated Atmospheric Energy Balance Using Cloud Objects. *Journal of Climate*, **29**, 7435-7452, <http://dx.doi.org/10.1175/JCLI-D-15-0782.1>
- Katsumata, K., 2016: Eddies Observed by Argo Floats. Part I: Eddy Transport in the Upper 1000 dbar. *Journal of Physical Oceanography*, **46**, 3471-3486, <http://dx.doi.org/10.1175/JPO-D-16-0150.1>
- Kaurkin, M. N., R. A. Ibrayev, and K. P. Belyaev, 2016: Data assimilation in the ocean circulation model of high spatial resolution using the methods of parallel programming. *Russian Meteorology and Hydrology*, **41**, 479-486,

- <http://dx.doi.org/10.3103/S1068373916070050>
- Kaurkin, M. N., R. A. Ibrayev, and K. P. Belyaev, 2016: ARGO data assimilation into the ocean dynamics model with high spatial resolution using Ensemble Optimal Interpolation (EnOI). *Oceanology*, **56**, 774-781, <http://dx.doi.org/10.1134/S0001437016060059>
- Kawakami, Y., S. Sugimoto, and T. Suga, 2016: Inter-annual zonal shift of the formation region of the lighter variety of the North Pacific Central Mode Water. *Journal of Oceanography*, **72**, 225-234, <http://dx.doi.org/10.1007/s10872-015-0325-1>
- Keerthi, M. G., M. Lengaigne, K. Drushka, J. Vialard, C. Boyer Montegut, S. Pous, M. Levy, and P. M. Muraleedharan, 2016: Intraseasonal variability of mixed layer depth in the tropical Indian Ocean. *Climate Dynamics*, **46**, 2633-2655, <http://dx.doi.org/10.1007/s00382-015-2721-z>
- Kelly, K. A., K. Drushka, L. Thompson, D. Le Bars, and E. L. McDonagh, 2016: Impact of slowdown of Atlantic overturning circulation on heat and freshwater transports. *Geophysical Research Letters*, **43**, 7625-7631, <http://dx.doi.org/10.1002/2016GL069789>
- Ker, S., Y. Le Gonidec, and L. Marié, 2016: Multifrequency seismic detectability of seasonal thermoclines assessed from ARGO data. *Journal of Geophysical Research: Oceans*, **121**, 6035-6060, <http://dx.doi.org/10.1002/2016JC011793>
- Kerry, C., B. Powell, M. Roughan, and P. Oke, 2016: Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational (IS4D-Var) data assimilation. *Geosci. Model Dev.*, **9**, 3779-3801, <http://www.geosci-model-dev.net/9/3779/2016/>
- Kitamura, T., T. Nakano, and S. Sugimoto, 2016: Decadal variations in mixed layer salinity in the Kuroshio Extension recirculation gyre region: influence of precipitation during the warm season. *Journal of Oceanography*, **72**, 167-175, <http://dx.doi.org/10.1007/s10872-015-0317-1>
- Kleinherenbrink, M., R. Riva, and Y. Sun, 2016: Sub-basin-scale sea level budgets from satellite altimetry, Argo floats and satellite gravimetry: a case study in the North Atlantic Ocean. *Ocean Science*, **12**, 1179-1203, <http://dx.doi.org/10.5194/os-12-1179-2016>
- Kolodziejczyk, N., J. Boutin, J.-L. Vergely, S. Marchand, N. Martin, and G. Reverdin, 2016: Mitigation of systematic errors in SMOS sea surface salinity. *Remote Sensing of Environment*, **180**, 164-177, <http://dx.doi.org/10.1016/j.rse.2016.02.061>
- Korotaev, G. K., P. N. Lishaev, and V. V. Knysh, 2016: Reconstruction of the three-dimensional salinity and temperature fields of the Black Sea on the basis of satellite altimetry measurements. *Izvestiya, Atmospheric and Oceanic Physics*, **52**, 961-973, <http://dx.doi.org/10.1134/S0001433816090152>
- Korotaev, G. K., Y. B. Ratner, M. V. Ivanchik, A. L. Kholod, and A. M. Ivanchik, 2016: Operational system for diagnosis and forecast of hydrophysical characteristics of the Black Sea. *Izvestiya, Atmospheric and Oceanic Physics*, **52**, 542-549, <http://dx.doi.org/10.1134/S0001433816050078>
- Korotaev, G. K., A. S. Sarkisyan, V. V. Knysh, and P. N. Lishaev, 2016: Reanalysis of seasonal and interannual variability of Black Sea fields for 1993–2012. *Izvestiya, Atmospheric*

- and Oceanic Physics*, **52**, 418-430, <http://dx.doi.org/10.1134/S0001433816040071>
- Kosempa, M. and D. P. Chambers, 2016: Mapping error in Southern Ocean transport computed from satellite altimetry and argo. *Journal of Geophysical Research: Oceans*, **121**, 8063-8076, <http://dx.doi.org/10.1002/2016JC011956>
- Kouketsu, S., R. Inoue, and T. Suga, 2016: Western North Pacific Integrated Physical-Biogeochemical Ocean Observation Experiment (INBOX): Part 3. Mesoscale variability of dissolved oxygen concentrations observed by multiple floats during S1-INBOX. *Journal of Marine Research*, **74**, 101-131, <http://dx.doi.org/10.1357/002224016819257326>
- Kouketsu, S., H. Kaneko, T. Okunishi, K. Sasaoka, S. Itoh, R. Inoue, and H. Ueno, 2016: Mesoscale eddy effects on temporal variability of surface chlorophyll a in the Kuroshio Extension. *Journal of Oceanography*, **72**, 439-451, <http://dx.doi.org/10.1007/s10872-015-0286-4>
- Kourafalou, V. H., Y. S. Androulidakis, G. R. Halliwell Jr, H. Kang, M. M. Mehari, M. Le Hénaff, R. Atlas, and R. Lumpkin, 2016: North Atlantic Ocean OSSE system development: Nature Run evaluation and application to hurricane interaction with the Gulf Stream. *Progress in Oceanography*, **148**, 1-25, <http://dx.doi.org/10.1016/j.pocean.2016.09.001>
- Kumar, A. and C. Wen, 2016: An Oceanic Heat Content–Based Definition for the Pacific Decadal Oscillation. *Monthly Weather Review*, **144**, 3977-3984, <http://dx.doi.org/10.1175/MWR-D-16-0080.1>
- Kusche, J., B. Uebbing, R. Rietbroek, C. K. Shum, and Z. H. Khan, 2016: Sea level budget in the Bay of Bengal (2002–2014) from GRACE and altimetry. *Journal of Geophysical Research: Oceans*, **121**, 1194-1217, <http://dx.doi.org/10.1002/2015JC011471>
- Lago, V., S. E. Wijffels, P. J. Durack, J. A. Church, N. L. Bindoff, and S. J. Marsland, 2016: Simulating the Role of Surface Forcing on Observed Multidecadal Upper-Ocean Salinity Changes. *Journal of Climate*, **29**, 5575-5588, <http://dx.doi.org/10.1175/JCLI-D-15-0519.1>
- Laiolo, L., A. S. McInnes, R. Matear, and M. A. Doblin, 2016: Key Drivers of Seasonal Plankton Dynamics in Cyclonic and Anticyclonic Eddies off East Australia. *Frontiers in Marine Science*, **3**, <https://doi.org/10.3389/fmars.2016.00155>
- Laloyaux, P., J.-N. Thépaut, and D. Dee, 2016: Impact of Scatterometer Surface Wind Data in the ECMWF Coupled Assimilation System. *Monthly Weather Review*, **144**, 1203-1217, <http://dx.doi.org/10.1175/MWR-D-15-0084.1>
- Lambert, E., D. Le Bars, and W. P. M. de Ruijter, 2016: The connection of the Indonesian Throughflow, South Indian Ocean Countercurrent and the Leeuwin Current. *Ocean Science*, **12**, 771-780, <http://dx.doi.org/10.5194/os-12-771-2016>
- Latarius, K. and D. Quadfasel, 2016: Water mass transformation in the deep basins of the Nordic Seas: Analyses of heat and freshwater budgets. *Deep Sea Research Part I: Oceanographic Research Papers*, **114**, 23-42, <http://dx.doi.org/10.1016/j.dsr.2016.04.012>
- Le Hénaff, M. and V. H. Kourafalou, 2016: Mississippi waters reaching South Florida reefs under no flood conditions: synthesis of observing and modeling system findings. *Ocean Dynamics*, **66**, 435-459, <http://dx.doi.org/10.1007/s10236-016-0932-4>

- Le Reste, S., V. Dutreuil, X. André, V. Thierry, C. Renaut, P.-Y. L. Traon, and G. Maze, 2016: "Deep-Arvor": A New Profiling Float to Extend the Argo Observations Down to 4000-m Depth. *Journal of Atmospheric and Oceanic Technology*, **33**, 1039-1055, <http://dx.doi.org/10.1175/JTECH-D-15-0214.1>
- Lebedev, K. V., 2016: An argo-based model for investigation of the Global Ocean (AMIGO). *Oceanology*, **56**, 172-181, <http://dx.doi.org/10.1134/S0001437016020144>
- Lebedev, K. V., A. S. Sarkisyan, and O. P. Nikitin, 2016: Comparative analysis of the North Atlantic surface circulation reproduced by three different methods. *Izvestiya, Atmospheric and Oceanic Physics*, **52**, 410-417, <http://dx.doi.org/10.1134/S0001433816040083>
- Lee, T., 2016: Consistency of Aquarius sea surface salinity with Argo products on various spatial and temporal scales. *Geophysical Research Letters*, **43**, 3857-3864, <http://dx.doi.org/10.1002/2016GL068822>
- Legeais, J. F., P. Prandi, and S. Guinehut, 2016: Analyses of altimetry errors using Argo and GRACE data. *Ocean Science*, **12**, 647-662, <http://dx.doi.org/10.5194/os-12-647-2016>
- Léger, F., C. Lebeaupin Brossier, H. Giordani, T. Arsouze, J. Beuvier, M.-N. Bouin, É. Bresson, V. Ducrocq, N. Fourrié, and M. Nuret, 2016: Dense water formation in the north-western Mediterranean area during HyMeX-SOP2 in 1/36° ocean simulations: Sensitivity to initial conditions. *Journal of Geophysical Research: Oceans*, **121**, 5549-5569, <http://dx.doi.org/10.1002/2015JC011542>
- Lemieux, J.-F., C. Beaudoin, F. Dupont, F. Roy, G. C. Smith, A. Shlyaeva, M. Buehner, A. Caya, J. Chen, T. Carrieres, L. Pogson, P. DeRepentigny, A. Plante, P. Pestieau, P. Pellerin, H. Ritchie, G. Garric, and N. Ferry, 2016: The Regional Ice Prediction System (RIPS): verification of forecast sea ice concentration. *Quarterly Journal of the Royal Meteorological Society*, **142**, 632-643, <http://dx.doi.org/10.1002/qj.2526>
- L'Hégaret, P., X. Carton, S. Louazel, and G. Boutin, 2016: Mesoscale eddies and submesoscale structures of Persian Gulf Water off the Omani coast in spring 2011. *Ocean Science*, **12**, 687-701, <http://dx.doi.org/10.5194/os-12-687-2016>
- Li, B., Y. W. Watanabe, and A. Yamaguchi, 2016: Spatiotemporal distribution of seawater pH in the North Pacific subpolar region by using the parameterization technique. *Journal of Geophysical Research: Oceans*, **121**, 3435-3449, <http://dx.doi.org/10.1002/2015JC011615>
- Li, C. J., H. Zhao, H. P. Li, and K. B. Lv, 2016: Statistical Models of Sea Surface Salinity in the South China Sea Based on SMOS Satellite Data. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **9**, 2658-2664, <http://dx.doi.org/10.1109/jstars.2016.2537318>
- Li, F., Y.-H. Jo, X.-H. Yan, and W. T. Liu, 2016: Climate Signals in the Mid- to High-Latitude North Atlantic from Altimeter Observations. *Journal of Climate*, **29**, 4905-4925, <http://dx.doi.org/10.1175/JCLI-D-12-00670.1>
- Li, J., C. Liang, Y. Tang, C. Dong, D. Chen, X. Liu, and W. Jin, 2016: A new dipole index of the salinity anomalies of the tropical Indian Ocean. *Scientific Reports*, **6**, 24260, <http://dx.doi.org/10.1038/srep24260>
- Li, L., R. W. Schmitt, C. C. Ummenhofer, and K. B. Karnauskas, 2016: Implications of North Atlantic Sea Surface Salinity for Summer Precipitation over the U.S. Midwest:

- Mechanisms and Predictive Value. *Journal of Climate*, **29**, 3143-3159, <http://dx.doi.org/10.1175/JCLI-D-15-0520.1>
- Li, L., R. W. Schmitt, C. C. Ummenhofer, and K. B. Karnauskas, 2016: North Atlantic salinity as a predictor of Sahel rainfall. *Science Advances*, **2**, e1501588, <http://dx.doi.org/10.1126/sciadv.1501588>
- Li, Q., B. Wang, X. Chen, X. Chen, and J.-H. Park, 2016: Variability of nonlinear internal waves in the South China Sea affected by the Kuroshio and mesoscale eddies. *Journal of Geophysical Research: Oceans*, **121**, 2098-2118, <http://dx.doi.org/10.1002/2015JC011134>
- Li, Q., A. Webb, B. Fox-Kemper, A. Craig, G. Danabasoglu, W. G. Large, and M. Vertenstein, 2016: Langmuir mixing effects on global climate: WAVEWATCH III in CESM. *Ocean Modelling*, **103**, 145-160, <http://dx.doi.org/10.1016/j.ocemod.2015.07.020>
- Li, Y. and W. Han, 2016: Causes for intraseasonal sea surface salinity variability in the western tropical Pacific Ocean and its seasonality. *Journal of Geophysical Research: Oceans*, **121**, 85-103, <http://dx.doi.org/10.1002/2015JC011413>
- Li, Y., W. Han, W. Wang, and M. Ravichandran, 2016: Intraseasonal Variability of SST and Precipitation in the Arabian Sea during the Indian Summer Monsoon: Impact of Ocean Mixed Layer Depth. *Journal of Climate*, **29**, 7889-7910, <https://doi.org/10.1175/JCLI-D-16-0238.1>
- Li, Y., X. Li, J. Wang, and S. Peng, 2016: Dynamical analysis of a satellite-observed anticyclonic eddy in the northern Bering Sea. *Journal of Geophysical Research: Oceans*, **121**, 3517-3531, <http://dx.doi.org/10.1002/2015JC011586>
- Li, Z. and N. Cassar, 2016: Satellite estimates of net community production based on O₂/Ar observations and comparison to other estimates. *Global Biogeochemical Cycles*, **30**, 735-752, <http://dx.doi.org/10.1002/2015GB005314>
- Liang, X. and L. Yu, 2016: Variations of the Global Net Air–Sea Heat Flux during the “Hiatus” Period (2001–10). *Journal of Climate*, **29**, 3647-3660, <http://dx.doi.org/10.1175/JCLI-D-15-0626.1>
- Liblik, T., J. Karstensen, P. Testor, P. Alenius, D. Hayes, S. Ruiz, K. J. Heywood, S. Pouliquen, L. Mortier, and E. Mauri, 2016: Potential for an underwater glider component as part of the Global Ocean Observing System. *Methods in Oceanography*, **17**, 50-82, <http://dx.doi.org/10.1016/j.mio.2016.05.001>
- Lien, V. S., S. S. Hjøllo, M. D. Skogen, E. Svendsen, H. Wehde, L. Bertino, F. Counillon, M. Chevallier, and G. Garric, 2016: An assessment of the added value from data assimilation on modelled Nordic Seas hydrography and ocean transports. *Ocean Modelling*, **99**, 43-59, <http://dx.doi.org/10.1016/j.ocemod.2015.12.010>
- Lima, M. O., M. Cirano, M. M. Mata, M. Goes, G. Goni, and M. Baringer, 2016: An assessment of the Brazil Current baroclinic structure and variability near 22° S in Distinct Ocean Forecasting and Analysis Systems. *Ocean Dynamics*, **66**, 893-916, <http://dx.doi.org/10.1007/s10236-016-0959-6>
- Lin, Y. C. and L. Y. Oey, 2016: Rainfall-enhanced blooming in typhoon wakes. *Scientific Reports*, **6**, 31310, <http://dx.doi.org/10.1038/srep31310>
- Lin, Y.-C., L.-Y. Oey, J. Wang, and K.-K. Liu, 2016: Rossby Waves and Eddies Observed at a Temperature Mooring in Northern South China Sea. *Journal of Physical*

- Oceanography*, **46**, 517-535, <http://dx.doi.org/10.1175/JPO-D-15-0094.1>
- Liu, C., A. Kohl, Z. Liu, F. Wang, and D. Stammer, 2016: Deep-reaching thermocline mixing in the equatorial Pacific cold tongue. *Nat Commun*, **7**, <http://dx.doi.org/10.1038/ncomms11576>
- Liu, H., X. M. Li, and H. Guo, 2016: The Dynamic Processes of Sea Ice on the East Coast of Antarctica: A Case Study Based on Spaceborne Synthetic Aperture Radar Data from TerraSAR-X. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **9**, 1187-1198, <http://dx.doi.org/10.1109/JSTARS.2015.2497355>
- Liu, L., R. Huang, and F. Wang, 2016: Subduction/obduction rate in the North Pacific diagnosed by an eddy-resolving model. *Chinese Journal of Oceanology and Limnology*, **34**, 835-846, <http://dx.doi.org/10.1007/s00343-016-5036-y>
- Liu, Q. and Y. Lu, 2016: Role of horizontal density advection in seasonal deepening of the mixed layer in the subtropical Southeast Pacific. *Advances in Atmospheric Sciences*, **33**, 442-451, <http://dx.doi.org/10.1007/s00376-015-5111-x>
- Liu, W., S.-P. Xie, and J. Lu, 2016: Tracking ocean heat uptake during the surface warming hiatus. *Nat Commun*, **7**, <http://dx.doi.org/10.1038/ncomms10926>
- Liu, X., A. Köhl, D. Stammer, S. Masuda, Y. Ishikawa, and T. Mochizuki, 2016: Impact of inconsistency between the climate model and its initial conditions on climate prediction. *Climate Dynamics*, 1-15, <http://dx.doi.org/10.1007/s00382-016-3194-4>
- Liu, Y., G. Chen, M. Sun, S. Liu, and F. Tian, 2016: A Parallel SLA-Based Algorithm for Global Mesoscale Eddy Identification. *Journal of Atmospheric and Oceanic Technology*, **33**, 2743-2754, <http://dx.doi.org/10.1175/jtech-d-16-0033.1>
- Llovel, W. and L. Terray, 2016: Observed southern upper-ocean warming over 2005–2014 and associated mechanisms. *Environmental Research Letters*, **11**, 124023, <http://dx.doi.org/10.1088/1748-9326/11/12/124023>
- Lopez, H., S. Dong, S.-K. Lee, and G. Goni, 2016: Decadal Modulations of Interhemispheric Global Atmospheric Circulations and Monsoons by the South Atlantic Meridional Overturning Circulation. *Journal of Climate*, **29**, 1831-1851, <http://dx.doi.org/10.1175/JCLI-D-15-0491.1>
- Lorkowski, P. and T. Brinkhoff, 2016: COMPRESSION AND PROGRESSIVE RETRIEVAL OF MULTI-DIMENSIONAL SENSOR DATA. *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, **XLI-B2**, 27-33, <http://dx.doi.org/10.5194/isprs-archives-XLI-B2-27-2016>
- Lu, Z., L. Cheng, J. Zhu, and R. Lin, 2016: The complementary role of SMOS sea surface salinity observations for estimating global ocean salinity state. *Journal of Geophysical Research: Oceans*, **121**, 3672-3691, <http://dx.doi.org/10.1002/2015JC011480>
- Luo, H., R. M. Castelao, A. K. Rennermalm, M. Tedesco, A. Bracco, P. L. Yager, and T. L. Mote, 2016: Oceanic transport of surface meltwater from the southern Greenland ice sheet. *Nature Geosci*, **9**, 528-532, <http://dx.doi.org/10.1038/ngeo2708>
- Ma, X. and C. Sun, 2016: Equatorward shift of annual Rossby waves in the Equatorial Pacific Ocean. *Chinese Journal of Oceanology and Limnology*, **34**, 212-218, <http://dx.doi.org/10.1007/s00343-015-4405-2>
- Macdonald, H. S., M. Roughan, M. E. Baird, and J. Wilkin, 2016: The formation of a cold-core eddy in the East Australian Current. *Continental Shelf Research*, **114**, 72-84, <http://dx.doi.org/10.1016/j.csr.2016.01.002>

- Machín, F. J. E. and J. L. Pelegrí, 2016: Interaction of Mediterranean Water lenses with Antarctic Intermediate Water off Northwest Africa. *Scientia Marina*, **80**, 10, <http://dx.doi.org/10.3989/scimar.04289.06A>
- Maes, C., B. Blanke, and E. Martinez, 2016: Origin and fate of surface drift in the oceanic convergence zones of the eastern Pacific. *Geophysical Research Letters*, **43**, 3398-3405, <http://dx.doi.org/10.1002/2016GL068217>
- Majumder, S., C. Schmid, and G. Halliwell, 2016: An observations and model-based analysis of meridional transports in the South Atlantic. *Journal of Geophysical Research: Oceans*, **121**, 5622-5638, <http://dx.doi.org/10.1002/2016JC011693>
- Mannshardt, E., K. Susic, M. Fuentes, and F. M. Bingham, 2016: Comparison of Distributional Statistics of Aquarius and Argo Sea Surface Salinity Measurements. *Journal of Atmospheric and Oceanic Technology*, **33**, 103-118, <http://dx.doi.org/10.1175/JTECH-D-15-0068.1>
- Marini, C., I. Polkova, A. Köhl, and D. Stammer, 2016: A Comparison of Two Ensemble Generation Methods Using Oceanic Singular Vectors and Atmospheric Lagged Initialization for Decadal Climate Prediction. *Monthly Weather Review*, **144**, 2719-2738, <http://dx.doi.org/10.1175/MWR-D-15-0350.1>
- Marnela, M., B. Rudels, I. Goszczko, A. Beszczynska-Möller, and U. Schauer, 2016: Fram Strait and Greenland Sea transports, water masses, and water mass transformations 1999–2010 (and beyond). *Journal of Geophysical Research: Oceans*, **121**, 2314-2346, <http://dx.doi.org/10.1002/2015JC011312>
- Martin, M. J., 2016: Suitability of satellite sea surface salinity data for use in assessing and correcting ocean forecasts. *Remote Sensing of Environment*, **180**, 305-319, <http://dx.doi.org/10.1016/j.rse.2016.02.004>
- Matsuoka, A., M. Babin, and E. C. Devred, 2016: A new algorithm for discriminating water sources from space: A case study for the southern Beaufort Sea using MODIS ocean color and SMOS salinity data. *Remote Sensing of Environment*, **184**, 124-138, <http://dx.doi.org/10.1016/j.rse.2016.05.006>
- Mayer, M., J. T. Fasullo, K. E. Trenberth, and L. Haimberger, 2016: ENSO-driven energy budget perturbations in observations and CMIP models. *Climate Dynamics*, **47**, 4009-4029, <http://dx.doi.org/10.1007/s00382-016-3057-z>
- McCaskill, C., L. K. Shay, J. K. Brewster, and P. C. Meyers, 2016: Development and Assessment of the Systematically Merged Pacific Ocean Regional Temperature and Salinity (SPORTS) Climatology for Ocean Heat Content Estimations. *Journal of Atmospheric and Oceanic Technology*, **33**, 2259-2272, <http://dx.doi.org/10.1175/JTECH-D-15-0168.1>
- McKinnon, K. A. and P. Huybers, 2016: Seasonal constraints on inferred planetary heat content. *Geophysical Research Letters*, **43**, 10,955-10,964, <http://dx.doi.org/10.1002/2016GL071055>
- Meccia, V. L., S. Simoncelli, and S. Sparnocchia, 2016: Decadal variability of the Turner Angle in the Mediterranean Sea and its implications for double diffusion. *Deep Sea Research Part I: Oceanographic Research Papers*, **114**, 64-77, <http://dx.doi.org/10.1016/j.dsr.2016.04.001>
- Mecklenburg, S., M. Drusch, L. Kaleschke, N. Rodriguez-Fernandez, N. Reul, Y. Kerr, J. Font,

- M. Martin-Neira, R. Oliva, E. Daganzo-Eusebio, J. P. Grant, R. Sabia, G. Macelloni, K. Rautiainen, J. Fauste, P. de Rosnay, J. Munoz-Sabater, N. Verhoest, H. Lievens, S. Delwart, R. Crapolicchio, A. de la Fuente, and M. Kornberg, 2016: ESA's Soil Moisture and Ocean Salinity mission: From science to operational applications. *Remote Sensing of Environment*, **180**, 3-18, <http://dx.doi.org/10.1016/j.rse.2015.12.025>
- Meissner, T., F. J. Wentz, J. Scott, and J. Vazquez-Cuervo, 2016: Sensitivity of Ocean Surface Salinity Measurements From Spaceborne L-Band Radiometers to Ancillary Sea Surface Temperature. *IEEE Transactions on Geoscience and Remote Sensing*, **54**, 7105-7111, <http://dx.doi.org/10.1109/TGRS.2016.2596100>
- Melnichenko, O., P. Hacker, N. Maximenko, G. Lagerloef, and J. Potemra, 2016: Optimum interpolation analysis of Aquarius sea surface salinity. *Journal of Geophysical Research: Oceans*, **121**, 602-616, <http://dx.doi.org/10.1002/2015JC011343>
- Menary, M. B., L. Hermanson, and N. J. Dunstone, 2016: The impact of Labrador Sea temperature and salinity variability on density and the subpolar AMOC in a decadal prediction system. *Geophysical Research Letters*, **43**, 12,217-12,227, <http://dx.doi.org/10.1002/2016GL070906>
- Menezes, V. V., H. E. Phillips, M. L. Vianna, and N. L. Bindoff, 2016: Interannual variability of the South Indian Countercurrent. *Journal of Geophysical Research: Oceans*, **121**, 3465-3487, <http://dx.doi.org/10.1002/2015JC011417>
- Menkes, C. E., M. Lengaigne, M. Lévy, C. Ethé, L. Bopp, O. Aumont, E. Vincent, J. Vialard, and S. Jullien, 2016: Global impact of tropical cyclones on primary production. *Global Biogeochemical Cycles*, **30**, 767-786, <http://dx.doi.org/10.1002/2015GB005214>
- Mensah, V., M. Andres, R.-C. Lien, B. Ma, C. M. Lee, and S. Jan, 2016: Combining Observations from Multiple Platforms across the Kuroshio Northeast of Luzon: A Highlight on PIES Data. *Journal of Atmospheric and Oceanic Technology*, **33**, 2185-2203, <http://dx.doi.org/10.1175/JTECH-D-16-0095.1>
- Mignot, A., R. Ferrari, and K. A. Mork, 2016: Spring bloom onset in the Nordic Seas. *Biogeosciences*, **13**, 3485-3502, <http://dx.doi.org/10.5194/bg-13-3485-2016>
- Miles, B. W. J., C. R. Stokes, and S. S. R. Jamieson, 2016: Pan-ice-sheet glacier terminus change in East Antarctica reveals sensitivity of Wilkes Land to sea-ice changes. *Science Advances*, **2**, <http://dx.doi.org/10.1126/sciadv.1501350>
- Mitarai, S., H. Watanabe, Y. Nakajima, A. F. Shchepetkin, and J. C. McWilliams, 2016: Quantifying dispersal from hydrothermal vent fields in the western Pacific Ocean. *Proceedings of the National Academy of Sciences*, **113**, 2976-2981, <http://dx.doi.org/10.1073/pnas.1518395113>
- Mochizuki, T., S. Masuda, Y. Ishikawa, and T. Awaji, 2016: Multiyear climate prediction with initialization based on 4D-Var data assimilation. *Geophysical Research Letters*, **43**, 3903-3910, <http://dx.doi.org/10.1002/2016GL067895>
- Momin, I. M., A. K. Mitra, D. K. Mahapatra, and E. N. Rajagopal, 2016: A review of recent evaluation of satellite estimates sea surface salinity in the tropical Indian Ocean. *Proc. SPIE 9882, Remote Sensing and Modeling of the Atmosphere, Oceans, and Interactions VI*, 98821I-98821I-9, <http://dx.doi.org/10.1117/12.2223571>
- Muni Krishna, K., 2016: Observational study of upper ocean cooling due to Phet super cyclone in the Arabian Sea. *Advances in Space Research*, **57**, 2115-2120,

- <http://dx.doi.org/10.1016/j.asr.2016.02.024>
- Nagamani, P. V., M. M. Ali, G. J. Goni, T. V. S. Udaya Bhaskar, J. P. McCreary, R. A. Weller, M. Rajeevan, V. V. Gopala Krishna, and J. C. Pezzullo, 2016: Heat content of the Arabian Sea Mini Warm Pool is increasing. *Atmospheric Science Letters*, **17**, 39-42, <http://dx.doi.org/10.1002/asl.596>
- Nagano, A., S. Kizu, K. Hanawa, and D. Roemmich, 2016: Heat transport variation due to change of North Pacific subtropical gyre interior flow during 1993–2012. *Ocean Dynamics*, **66**, 1637-1649, <http://dx.doi.org/10.1007/s10236-016-1007-2>
- Nagano, A., M. Wakita, and S. Watanabe, 2016: Dichothermal layer deepening in relation with halocline depth change associated with northward shrinkage of North Pacific western subarctic gyre in early 2000s. *Ocean Dynamics*, **66**, 163-172, <http://dx.doi.org/10.1007/s10236-015-0917-8>
- Nagura, M. and M. J. McPhaden, 2016: Zonal Propagation of Near-Surface Zonal Currents in Relation to Surface Wind Forcing in the Equatorial Indian Ocean. *Journal of Physical Oceanography*, **46**, 3623-3638, <http://dx.doi.org/10.1175/jpo-d-16-0157.1>
- Nan, F., F. Yu, H. Xue, L. Zeng, D. Wang, S. Yang, and K.-C. Nguyen, 2016: Freshening of the upper ocean in the South China Sea since the early 1990s. *Deep Sea Research Part I: Oceanographic Research Papers*, **118**, 20-29, <http://dx.doi.org/10.1016/j.dsr.2016.10.010>
- Neveu, E., A. M. Moore, C. A. Edwards, J. Fiechter, P. Drake, W. J. Crawford, M. G. Jacox, and E. Nuss, 2016: An historical analysis of the California Current circulation using ROMS 4D-Var: System configuration and diagnostics. *Ocean Modelling*, **99**, 133-151, <http://dx.doi.org/10.1016/j.ocemod.2015.11.012>
- Nicholson, S.-A., M. Lévy, J. Llorc, S. Swart, and P. M. S. Monteiro, 2016: Investigation into the impact of storms on sustaining summer primary productivity in the Sub-Antarctic Ocean. *Geophysical Research Letters*, **43**, 9192-9199, <http://dx.doi.org/10.1002/2016GL069973>
- Ninove, F., P. Y. Le Traon, E. Remy, and S. Guinehut, 2016: Spatial scales of temperature and salinity variability estimated from Argo observations. *Ocean Science*, **12**, 1-7, <http://dx.doi.org/10.5194/os-12-1-2016>
- Noh, Y., H. Ok, E. Lee, T. Toyoda, and N. Hirose, 2016: Parameterization of Langmuir Circulation in the Ocean Mixed Layer Model Using LES and Its Application to the OGCM. *Journal of Physical Oceanography*, **46**, 57-78, <http://dx.doi.org/10.1175/JPO-D-14-0137.1>
- Nyadjro, E. S. and B. Subrahmanyam, 2016: Spatial and temporal variability of central Indian Ocean salinity fronts observed by SMOS. *Remote Sensing of Environment*, **180**, 146-153, <http://dx.doi.org/10.1016/j.rse.2016.02.049>
- Ohishi, S., T. Tozuka, and N. Komori, 2016: Frontolysis by surface heat flux in the Agulhas Return Current region with a focus on mixed layer processes: observation and a high-resolution CGCM. *Climate Dynamics*, **47**, 3993-4007, <http://dx.doi.org/10.1007/s00382-016-3056-0>
- O'Kane, T. J., D. P. Monselesan, and C. Maes, 2016: On the stability and spatiotemporal variance distribution of salinity in the upper ocean. *Journal of Geophysical Research: Oceans*, **121**, 4128-4148, <http://dx.doi.org/10.1002/2015JC011523>

- Oke, P. R., R. Proctor, U. Rosebrock, R. Brinkman, M. L. Cahill, I. Coghlan, P. Divakaran, J. Freeman, C. Pattiaratchi, M. Roughan, P. A. Sandery, A. Schaeffer, and S. Wijeratne, 2016: The Marine Virtual Laboratory (version 2.1): enabling efficient ocean model configuration. *Geosci. Model Dev.*, **9**, 3297-3307, <https://doi.org/10.5194/gmd-9-3297-2016>
- Olmedo, E., J. Martínez, M. Umbert, N. Hoareau, M. Portabella, J. Ballabrera-Poy, and A. Turiel, 2016: Improving time and space resolution of SMOS salinity maps using multifractal fusion. *Remote Sensing of Environment*, **180**, 246-263, <http://dx.doi.org/10.1016/j.rse.2016.02.038>
- Organelli, E., H. Claustre, A. Bricaud, C. Schmechtig, A. Poteau, X. Xing, L. Prieur, F. D'Ortenzio, G. Dall'Olmo, and V. Vellucci, 2016: A Novel Near-Real-Time Quality-Control Procedure for Radiometric Profiles Measured by Bio-Argo Floats: Protocols and Performances. *Journal of Atmospheric and Oceanic Technology*, **33**, 937-951, <http://dx.doi.org/10.1175/JTECH-D-15-0193.1>
- Pallàs-Sanz, E., J. Candela, J. Sheinbaum, J. Ochoa, and J. Jouanno, 2016: Trapping of the near-inertial wave wakes of two consecutive hurricanes in the Loop Current. *Journal of Geophysical Research: Oceans*, **121**, 7431-7454, <http://dx.doi.org/10.1002/2015JC011592>
- Palmer, M. D., S. Wijffels, and J. C. Church, 2016: Ocean heat content increase reveals unabated global warming. *WMO Statement on the Status of the Global Climate in 2015*, World Meteorological Organization, http://library.wmo.int/pmb_ged/wmo_1167_en.pdf.
- Palter, J. B., C.-A. Caron, K. L. Law, J. K. Willis, D. S. Trossman, I. M. Yashayaev, and D. Gilbert, 2016: Variability of the directly observed, middepth subpolar North Atlantic circulation. *Geophysical Research Letters*, **43**, 2700-2708, <http://dx.doi.org/10.1002/2015GL067235>
- Parker, A. and C. D. Ollier, 2016: There is no real evidence for a diminishing trend of the Atlantic meridional overturning circulation. *Journal of Ocean Engineering and Science*, **1**, 30-35, <http://dx.doi.org/10.1016/j.joes.2015.12.007>
- Pelland, N. A., C. C. Eriksen, and M. F. Cronin, 2016: Seaglider surveys at Ocean Station Papa: Circulation and water mass properties in a meander of the North Pacific Current. *Journal of Geophysical Research: Oceans*, **121**, 6816-6846, <http://dx.doi.org/10.1002/2016JC011920>
- Pidcock, R. E. M., A. P. Martin, S. C. Painter, J. T. Allen, M. A. Srokosz, A. Forryan, M. Stinchcombe, and D. A. Smeed, 2016: Quantifying mesoscale-driven nitrate supply: A case study. *Global Biogeochemical Cycles*, **30**, 1206-1223, <http://dx.doi.org/10.1002/2016GB005383>
- Piecuch, C. G. and K. J. Quinn, 2016: El Niño, La Niña, and the global sea level budget. *Ocean Science*, **12**, 1165-1177, <https://doi.org/10.5194/os-12-1165-2016>
- Piontkovski, S. A. and B. Y. Queste, 2016: Decadal changes of the Western Arabian sea ecosystem. *International Aquatic Research*, **8**, 49-64, <http://dx.doi.org/10.1007/s40071-016-0124-3>
- Piron, A., V. Thierry, H. Mercier, and G. Caniaux, 2016: Argo float observations of basin-scale deep convection in the Irminger sea during winter 2011–2012. *Deep Sea Research*

- Part I: Oceanographic Research Papers*, **109**, 76-90,
<http://dx.doi.org/10.1016/j.dsr.2015.12.012>
- Pisano, A., B. Buongiorno Nardelli, C. Tronconi, and R. Santoleri, 2016: The new Mediterranean optimally interpolated pathfinder AVHRR SST Dataset (1982–2012). *Remote Sensing of Environment*, **176**, 107-116,
<http://dx.doi.org/10.1016/j.rse.2016.01.019>
- Plant, J. N., K. S. Johnson, C. M. Sakamoto, H. W. Jannasch, L. J. Coletti, S. C. Riser, and D. D. Swift, 2016: Net community production at Ocean Station Papa observed with nitrate and oxygen sensors on profiling floats. *Global Biogeochemical Cycles*, **30**, 859-879,
<http://dx.doi.org/10.1002/2015GB005349>
- Pookkandy, B., D. Dommenges, N. Klingaman, S. Wales, C. Chung, C. Frauen, and H. Wolff, 2016: The role of local atmospheric forcing on the modulation of the ocean mixed layer depth in reanalyses and a coupled single column ocean model. *Climate Dynamics*, **47**, 2991-3010, <http://dx.doi.org/10.1007/s00382-016-3009-7>
- Prants, S. V., 2016: A Lagrangian study of eddies in the ocean. *Regular and Chaotic Dynamics*, **21**, 335-350, <http://dx.doi.org/10.1134/S1560354716030060>
- Prants, S. V., V. B. Lobanov, M. V. Budyansky, and M. Y. Uleysky, 2016: Lagrangian analysis of formation, structure, evolution and splitting of anticyclonic Kuril eddies. *Deep Sea Research Part I: Oceanographic Research Papers*, **109**, 61-75,
<http://dx.doi.org/10.1016/j.dsr.2016.01.003>
- Pujol, M. I., Y. Faugère, G. Taburet, S. Dupuy, C. Pelloquin, M. Ablain, and N. Picot, 2016: DUACS DT2014: the new multi-mission altimeter data set reprocessed over 20 years. *Ocean Science*, **12**, 1067-1090, <https://doi.org/10.5194/os-12-1067-2016>
- Pun, I.-F., J. F. Price, and S. R. Jayne, 2016: Satellite-Derived Ocean Thermal Structure for the North Atlantic Hurricane Season. *Monthly Weather Review*, **144**, 877-896,
<http://dx.doi.org/10.1175/MWR-D-15-0275.1>
- Qian, J.-g. and Y.-l. Han, 2016: A New Method to Obtain Deep Ocean Current Velocity from Argo Floats. *International Conference on Oriental Thinking and Fuzzy Logic: Celebration of the 50th Anniversary in the era of Complex Systems and Big Data*, B.-Y. Cao, P.-Z. Wang, Z.-L. Liu, and Y.-B. Zhong, Eds., Springer International Publishing, 519-531, http://dx.doi.org/10.1007/978-3-319-30874-6_48.
- Qin, H., R. X. Huang, W. Wang, and H. Xue, 2016: Regulation of South China Sea throughflow by pressure difference. *Journal of Geophysical Research: Oceans*, **121**, 4077-4096, <http://dx.doi.org/10.1002/2015JC011177>
- Qiu, C., J. Chen, M. Shangguan, and H. Mao, 2016: Seasonal variations of sea level anomaly in the subtropical front zone based on satellite-derived data from 2003–2009. *Aquatic Ecosystem Health & Management*, **19**, 270-275,
<http://dx.doi.org/10.1080/14634988.2016.1210451>
- Qu, T., L. Zhang, and N. Schneider, 2016: North Atlantic Subtropical Underwater and Its Year-to-Year Variability in Annual Subduction Rate during the Argo Period. *Journal of Physical Oceanography*, **46**, 1901-1916,
<http://dx.doi.org/10.1175/JPO-D-15-0246.1>
- Querin, S., M. Bensi, V. Cardin, C. Solidoro, S. Bacer, L. Mariotti, F. Stel, and V. Malačič, 2016: Saw-tooth modulation of the deep-water thermohaline properties in the southern

- Adriatic Sea. *Journal of Geophysical Research: Oceans*, **121**, 4585-4600, <http://dx.doi.org/10.1002/2015JC011522>
- Raes, E. J., L. Bodrossy, J. Van de Kamp, B. Holmes, N. J. Hardman-Mountford, P. A. Thompson, A. S. McInnes, and A. M. Waite, 2016: Reduction of the Powerful Greenhouse Gas N₂O in the South-Eastern Indian Ocean. *PLoS ONE*, **11**, <http://dx.doi.org/10.1371/journal.pone.0145996>
- Raj, R. P., J. A. Johannessen, T. Eldevik, J. E. Ø. Nilsen, and I. Halo, 2016: Quantifying mesoscale eddies in the Lofoten Basin. *Journal of Geophysical Research: Oceans*, **121**, 4503-4521, <http://dx.doi.org/10.1002/2016JC011637>
- Renault, L., M. J. Molemaker, J. Gula, S. Masson, and J. C. McWilliams, 2016: Control and Stabilization of the Gulf Stream by Oceanic Current Interaction with the Atmosphere. *Journal of Physical Oceanography*, **46**, 3439-3453, <http://dx.doi.org/10.1175/JPO-D-16-0115.1>
- Riser, S. C., H. J. Freeland, D. Roemmich, S. Wijffels, A. Troisi, M. Belbeoch, D. Gilbert, J. Xu, S. Pouliquen, A. Thresher, P.-Y. Le Traon, G. Maze, B. Klein, M. Ravichandran, F. Grant, P.-M. Poulain, T. Suga, B. Lim, A. Sterl, P. Sutton, K.-A. Mork, P. J. Velez-Belchi, I. Ansorge, B. King, J. Turton, M. Baringer, and S. R. Jayne, 2016: Fifteen years of ocean observations with the global Argo array. *Nature Clim. Change*, **6**, 145-153, <http://dx.doi.org/10.1038/nclimate2872>
- Roach, C. J., D. Balwada, and K. Speer, 2016: Horizontal mixing in the Southern Ocean from Argo float trajectories. *Journal of Geophysical Research: Oceans*, **121**, 5570-5586, <http://dx.doi.org/10.1002/2015JC011440>
- Roberts-Jones, J., K. Bovis, M. J. Martin, and A. McLaren, 2016: Estimating background error covariance parameters and assessing their impact in the OSTIA system. *Remote Sensing of Environment*, **176**, 117-138, <http://dx.doi.org/10.1016/j.rse.2015.12.006>
- Rocha, C. B., T. K. Chereskin, S. T. Gille, and D. Menemenlis, 2016: Mesoscale to Submesoscale Wavenumber Spectra in Drake Passage. *Journal of Physical Oceanography*, **46**, 601-620, <http://dx.doi.org/10.1175/JPO-D-15-0087.1>
- Rocha, C. B., S. T. Gille, T. K. Chereskin, and D. Menemenlis, 2016: Seasonality of submesoscale dynamics in the Kuroshio Extension. *Geophysical Research Letters*, **43**, 11,304-11,311, <http://dx.doi.org/10.1002/2016GL071349>
- Rodriguez, A. R., M. R. Mazloff, and S. T. Gille, 2016: An oceanic heat transport pathway to the Amundsen Sea Embayment. *Journal of Geophysical Research: Oceans*, **121**, 3337-3349, <http://dx.doi.org/10.1002/2015JC011402>
- Rodríguez-Cabello, C., C. González-Pola, and F. Sánchez, 2016: Migration and diving behavior of *Centrophorus squamosus* in the NE Atlantic. Combining electronic tagging and Argo hydrography to infer deep ocean trajectories. *Deep Sea Research Part I: Oceanographic Research Papers*, **115**, 48-62, <http://dx.doi.org/10.1016/j.dsr.2016.05.009>
- Roemmich, D., J. Gilson, P. Sutton, and N. Zilberman, 2016: Multidecadal Change of the South Pacific Gyre Circulation. *Journal of Physical Oceanography*, **46**, 1871-1883, <http://dx.doi.org/10.1175/JPO-D-15-0237.1>
- Rosburg, K. C., K. A. Donohue, and E. P. Chassignet, 2016: Three-dimensional model-observation comparison in the Loop Current region. *Dynamics of*

- Atmospheres and Oceans*, **76, Part 2**, 283-305,
<http://doi.org/10.1016/j.dynatmoce.2016.05.001>
- Rousselet, L., A. M. Doglioli, C. Maes, B. Blanke, and A. A. Petrenko, 2016: Impacts of mesoscale activity on the water masses and circulation in the Coral Sea. *Journal of Geophysical Research: Oceans*, **121**, 7277-7289,
<http://dx.doi.org/10.1002/2016JC011861>
- Roxy, M. K., A. Modi, R. Murtugudde, V. Valsala, S. Panickal, S. Prasanna Kumar, M. Ravichandran, M. Vichi, and M. Lévy, 2016: A reduction in marine primary productivity driven by rapid warming over the tropical Indian Ocean. *Geophysical Research Letters*, **43**, 826-833, <http://dx.doi.org/10.1002/2015GL066979>
- Ryan, S., M. Schröder, O. Huhn, and R. Timmermann, 2016: On the warm inflow at the eastern boundary of the Weddell Gyre. *Deep Sea Research Part I: Oceanographic Research Papers*, **107**, 70-81, <http://dx.doi.org/10.1016/j.dsr.2015.11.002>
- Sagen, H., B. D. Dushaw, E. K. Skarsoulis, D. Dumont, M. A. Dzieciuch, and A. Beszczynska-Möller, 2016: Time series of temperature in Fram Strait determined from the 2008–2009 DAMOCLES acoustic tomography measurements and an ocean model. *Journal of Geophysical Research: Oceans*, **121**, 4601-4617,
<http://dx.doi.org/10.1002/2015JC011591>
- Sala, I., C. S. Harrison, and R. M. A. Caldeira, 2016: The role of the Azores Archipelago in capturing and retaining incoming particles. *Journal of Marine Systems*, **154, Part B**, 146-156, <http://dx.doi.org/10.1016/j.jmarsys.2015.10.001>
- Salehipour, H., W. R. Peltier, C. B. Whalen, and J. A. MacKinnon, 2016: A new characterization of the turbulent diapycnal diffusivities of mass and momentum in the ocean. *Geophysical Research Letters*, **43**, 3370-3379,
<http://dx.doi.org/10.1002/2016GL068184>
- Sallée, J.-B., M. Mazloff, M. P. Meredith, C. W. Hughes, S. Rintoul, R. Gomez, N. Metzl, C. L. Monaco, S. Schmidtko, M. M. Mata, A. Wählin, S. Swart, M. J. M. Williams, A. C. Naveria-Garabata, and P. Monteiro, 2016: Antarctica: Southern Ocean, In State of the Climate in 2015. *Bulletin of the American Meteorological Society*, **97**, S166 - S168,
<http://dx.doi.org/10.1175/2016BAMSStateoftheClimate.1>
- Santos-Garcia, A., M. M. Jacob, and W. L. Jones, 2016: SMOS Near-Surface Salinity Stratification Under Rainy Conditions. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **9**, 2493-2499,
<http://dx.doi.org/10.1109/JSTARS.2016.2527038>
- Sarkisyan, A. S., 2016: Main directions in the simulation of physical characteristics of the World Ocean and seas. *Izvestiya, Atmospheric and Oceanic Physics*, **52**, 335-340,
<http://dx.doi.org/10.1134/S0001433816040101>
- Sarkisyan, A. S., O. P. Nikitin, and K. V. Lebedev, 2016: Physical characteristics of the Gulf Stream as an indicator of the quality of large-scale circulation modeling. *Doklady Earth Sciences*, **471**, 1288-1291, <http://dx.doi.org/10.1134/S1028334X16120138>
- Sauzède, R., H. Claustre, J. Uitz, C. Jamet, G. Dall'Olmo, F. D'Ortenzio, B. Gentili, A. Poteau, and C. Schmechtig, 2016: A neural network-based method for merging ocean color and Argo data to extend surface bio-optical properties to depth: Retrieval of the particulate backscattering coefficient. *Journal of Geophysical Research: Oceans*, **121**,

- 2552-2571, <http://dx.doi.org/10.1002/2015JC011408>
- Schabetsberger, R., M. J. Miller, G. Dall'Olmo, R. Kaiser, F. Økland, S. Watanabe, K. Aarestrup, and K. Tsukamoto, 2016: Hydrographic features of anguillid spawning areas: potential signposts for migrating eels. *Marine Ecology Progress Series*, **554**, 141-155, <http://dx.doi.org/10.3354/meps11824>
- Schulze, L. M., R. S. Pickart, and G. W. K. Moore, 2016: Atmospheric forcing during active convection in the Labrador Sea and its impact on mixed-layer depth. *Journal of Geophysical Research: Oceans*, **121**, 6978-6992, <http://dx.doi.org/10.1002/2015JC011607>
- Schütte, F., P. Brandt, and J. Karstensen, 2016: Occurrence and characteristics of mesoscale eddies in the tropical northeastern Atlantic Ocean. *Ocean Science*, **12**, 663-685, <http://dx.doi.org/10.5194/os-12-663-2016>
- Schütte, F., J. Karstensen, G. Krahnemann, H. Hauss, B. Fiedler, P. Brandt, M. Visbeck, and A. Körtzinger, 2016: Characterization of "dead-zone" eddies in the eastern tropical North Atlantic. *Biogeosciences*, **13**, 5865-5881, <http://dx.doi.org/10.5194/bg-13-5865-2016>
- Sedigh Marvasti, S., A. Gnanadesikan, A. A. Bidokhti, J. P. Dunne, and S. Ghader, 2016: Challenges in modeling spatiotemporally varying phytoplankton blooms in the Northwestern Arabian Sea and Gulf of Oman. *Biogeosciences*, **13**, 1049-1069, <http://dx.doi.org/10.5194/bg-13-1049-2016>
- Sharma, R., N. agarwal, A. Chakraborty, S. Mallick, J. Buckley, V. Shesu, and A. Tandon, 2016: Large-scale air-sea coupling processes in the Bay of Bengal using space-borne observations. *Oceanography*, **29**, 192-201, <http://dx.doi.org/10.5670/oceanog.2016.51>
- Siedlecki, S. A., I. C. Kaplan, A. J. Hermann, T. T. Nguyen, N. A. Bond, J. A. Newton, G. D. Williams, W. T. Peterson, S. R. Alin, and R. A. Feely, 2016: Experiments with Seasonal Forecasts of ocean conditions for the Northern region of the California Current upwelling system. *Scientific Reports*, **6**, 27203, <http://dx.doi.org/10.1038/srep27203>
- Siswanto, E., M. C. Honda, K. Matsumoto, Y. Sasai, T. Fujiki, K. Sasaoka, and T. Saino, 2016: Sixteen-year phytoplankton biomass trends in the northwestern Pacific Ocean observed by the SeaWiFS and MODIS ocean color sensors. *Journal of Oceanography*, **72**, 479-489, <http://dx.doi.org/10.1007/s10872-016-0357-1>
- Siswanto, E., M. C. Honda, Y. Sasai, K. Sasaoka, and T. Saino, 2016: Meridional and seasonal footprints of the Pacific Decadal Oscillation on phytoplankton biomass in the northwestern Pacific Ocean. *Journal of Oceanography*, **72**, 465-477, <http://dx.doi.org/10.1007/s10872-016-0367-z>
- Smith, G. C., F. Roy, M. Reszka, D. Surcel Colan, Z. He, D. Deacu, J.-M. Belanger, S. Skachko, Y. Liu, F. Dupont, J.-F. Lemieux, C. Beaudoin, B. Tranchant, M. Drévilion, G. Garric, C.-E. Testut, J.-M. Lellouche, P. Pellerin, H. Ritchie, Y. Lu, F. Davidson, M. Buehner, A. Caya, and M. Lajoie, 2016: Sea ice forecast verification in the Canadian Global Ice Ocean Prediction System. *Quarterly Journal of the Royal Meteorological Society*, **142**, 659-671, <http://dx.doi.org/10.1002/qj.2555>
- Sokolovskiy, M. A., X. J. Carton, B. N. Filyushkin, and O. I. Yakovenko, 2016: Interaction between a surface jet and subsurface vortices in a three-layer quasi-geostrophic

- model. *Geophysical & Astrophysical Fluid Dynamics*, **110**, 201-223,
<http://dx.doi.org/10.1080/03091929.2016.1164148>
- Somavilla, R., C. González-Pola, U. Schauer, and G. Budéus, 2016: Mid-2000s North Atlantic shift: Heat budget and circulation changes. *Geophysical Research Letters*, **43**, 2059-2068, <http://dx.doi.org/10.1002/2015GL067254>
- Soppa, M. A., C. Völker, and A. Bracher, 2016: Diatom Phenology in the Southern Ocean: Mean Patterns, Trends and the Role of Climate Oscillations. *Remote Sensing*, **8**, 420, <https://doi.org/10.3390/rs8050420>
- Song, H., C. A. Edwards, A. M. Moore, and J. Fiechter, 2016: Data assimilation in a coupled physical-biogeochemical model of the California Current System using an incremental lognormal 4-dimensional variational approach: Part 2—Joint physical and biological data assimilation twin experiments. *Ocean Modelling*, **106**, 146-158, <http://dx.doi.org/10.1016/j.ocemod.2016.09.003>
- Stabeno, P. J., N. A. Bond, N. B. Kachel, C. Ladd, C. W. Mordy, and S. L. Strom, 2016: Southeast Alaskan shelf from southern tip of Baranof Island to Kayak Island: Currents, mixing and chlorophyll-a. *Deep Sea Research Part II: Topical Studies in Oceanography*, **132**, 6-23, <http://doi.org/10.1016/j.dsr2.2015.06.018>
- Stammer, D., M. Balmaseda, P. Heimbach, A. Kohl, and A. Weaver, 2016: Ocean Data Assimilation in Support of Climate Applications: Status and Perspectives. *Annual Review of Marine Science*, **8**, <http://dx.doi.org/10.1146/annurev-marine-122414-034113>
- Stanev, E. V., J. Schulz-Stellenfleth, J. Staneva, S. Grayek, S. Grashorn, A. Behrens, W. Koch, and J. Pein, 2016: Ocean forecasting for the German Bight: from regional to coastal scales. *Ocean Science*, **12**, 1105-1136, <https://doi.org/10.5194/os-12-1105-2016>
- Stendardo, I., M. Rhein, and R. Hollmann, 2016: A high resolution salinity time series 1993–2012 in the North Atlantic from Argo and Altimeter data. *Journal of Geophysical Research: Oceans*, **121**, 2523-2551, <http://dx.doi.org/10.1002/2015JC011439>
- Stepanov, V. N., D. Iovino, S. Masina, A. Storto, and A. Cipollone, 2016: The impact of horizontal resolution of density field on the calculation of the Atlantic meridional overturning circulation at 34°S. *Journal of Geophysical Research: Oceans*, **121**, 4323-4340, <http://dx.doi.org/10.1002/2015JC011505>
- Stepanov, V. N., D. Iovino, S. Masina, A. Storto, and A. Cipollone, 2016: Observed and simulated variability of the Atlantic Meridional Overturning Circulation at 41°N. *Journal of Marine Systems*, **164**, 42-52, <http://dx.doi.org/10.1016/j.jmarsys.2016.08.004>
- Stephens, G. L., M. Z. Hakuba, M. Hawcroft, J. M. Haywood, A. Behrangi, J. E. Kay, and P. J. Webster, 2016: The Curious Nature of the Hemispheric Symmetry of the Earth's Water and Energy Balances. *Current Climate Change Reports*, **2**, 135-147, <http://dx.doi.org/10.1007/s40641-016-0043-9>
- Stewart, K. D. and T. W. N. Haine, 2016: Thermobaricity in the Transition Zones between Alpha and Beta Oceans. *Journal of Physical Oceanography*, **46**, 1805-1821, <http://dx.doi.org/10.1175/JPO-D-16-0017.1>
- Storto, A., 2016: Variational quality control of hydrographic profile data with non-Gaussian

- errors for global ocean variational data assimilation systems. *Ocean Modelling*, **104**, 226-241, <http://dx.doi.org/10.1016/j.ocemod.2016.06.011>
- Storto, A., C. Yang, and S. Masina, 2016: Sensitivity of global ocean heat content from reanalyses to the atmospheric reanalysis forcing: A comparative study. *Geophysical Research Letters*, **43**, 5261-5270, <http://dx.doi.org/10.1002/2016GL068605>
- Stramma, L., R. Czeschel, T. Tanhua, P. Brandt, M. Visbeck, and B. S. Giese, 2016: The flow field of the upper hypoxic eastern tropical North Atlantic oxygen minimum zone. *Ocean Science*, **12**, 153-167, <http://dx.doi.org/10.5194/os-12-153-2016>
- Sugimoto, S. and S. i. Kako, 2016: Decadal Variation in Winter Mixed Layer Depth South of the Kuroshio Extension and Its Influence on Winter Mixed Layer Temperature. *Journal of Climate*, **29**, 1237-1252, <http://dx.doi.org/10.1175/JCLI-D-15-0206.1>
- Sun, C. and X. Ma, 2016: Estimating thermohaline variability of the equatorial Pacific Ocean from satellite altimetry. *Science China Earth Sciences*, **59**, 2213-2222, <http://dx.doi.org/10.1007/s11430-016-0048-2>
- Sun, R., G. Wang, and C. Chen, 2016: The Kuroshio bifurcation associated with islands at the Luzon Strait. *Geophysical Research Letters*, **43**, 5768-5774, <http://dx.doi.org/10.1002/2016GL069652>
- Syamsuddin, M., S.-I. Saitoh, T. Hirawake, F. Syamsudin, and M. Zainuddin, 2016: Interannual variation of bigeye tuna (*Thunnus obesus*) hotspots in the eastern Indian Ocean off Java. *International Journal of Remote Sensing*, 1-14, <http://dx.doi.org/10.1080/01431161.2015.1136451>
- Tamsitt, V., L. D. Talley, M. R. Mazloff, and I. Cerovečki, 2016: Zonal Variations in the Southern Ocean Heat Budget. *Journal of Climate*, **29**, 6563-6579, <http://dx.doi.org/10.1175/JCLI-D-15-0630.1>
- Tanjura, C. A. S., L. N. Lima, and K. Belyaev, 2016: Impact on oceanic dynamics from assimilation of satellite surface height anomaly data into the Hybrid Coordinate Ocean Model Ocean Model (HYCOM) over the Atlantic Ocean. *Oceanology*, **56**, 509-514, <http://dx.doi.org/10.1134/S000143701603022X>
- Tanzil, J. T. I., J. N. Lee, B. E. Brown, R. Quax, J. A. Kaandorp, J. M. Lough, and P. A. Todd, 2016: Luminescence and density banding patterns in massive *Porites* corals around the Thai-Malay Peninsula, Southeast Asia. *Limnology and Oceanography*, **61**, 2003-2026, <http://dx.doi.org/10.1002/lno.10350>
- Tel, E., R. Balbin, J. M. Cabanas, M. J. Garcia, M. C. Garcia-Martinez, C. Gonzalez-Pola, A. Lavin, J. L. Lopez-Jurado, C. Rodriguez, M. Ruiz-Villarreal, R. F. Sánchez-Leal, M. Vargas-Yáñez, and P. Vélez-Belchí, 2016: IEOOS: the Spanish Institute of Oceanography Observing System. *Ocean Science*, **12**, 345-353, <http://dx.doi.org/10.5194/os-12-345-2016>
- Thadathil, P., I. Suresh, S. Gautham, S. Prasanna Kumar, M. Lengaigne, R. R. Rao, S. Neetu, and A. Hegde, 2016: Surface layer temperature inversion in the Bay of Bengal: Main characteristics and related mechanisms. *Journal of Geophysical Research: Oceans*, **121**, 5682-5696, <http://dx.doi.org/10.1002/2016JC011674>
- Thoppil, P. G., E. J. Metzger, H. E. Hurlburt, O. M. Smedstad, and H. Ichikawa, 2016: The current system east of the Ryukyu Islands as revealed by a global ocean reanalysis. *Progress in Oceanography*, **141**, 239-258,

- <http://dx.doi.org/10.1016/j.pocean.2015.12.013>
- Timmermans, M.-L. and S. R. Jayne, 2016: The Arctic Ocean Spices Up. *Journal of Physical Oceanography*, **46**, 1277-1284, <http://dx.doi.org/10.1175/JPO-D-16-0027.1>
- Tödter, J., P. Kirchgessner, L. Nerger, and B. Ahrens, 2016: Assessment of a Nonlinear Ensemble Transform Filter for High-Dimensional Data Assimilation. *Monthly Weather Review*, **144**, 409-427, <http://dx.doi.org/10.1175/MWR-D-15-0073.1>
- Tranchant, B., G. Reffray, E. Greiner, D. Nugroho, A. Koch-Larrouy, and P. Gaspar, 2016: Evaluation of an operational ocean model configuration at 1/12° spatial resolution for the Indonesian seas (NEMO2.3/INDO12) – Part 1: Ocean physics. *Geoscientific Model Development*, **9**, 1037-1064, <http://dx.doi.org/10.5194/gmd-9-1037-2016>
- Trenberth, K. E., J. T. Fasullo, K. v. Schuckmann, and L. Cheng, 2016: Insights into Earth's Energy Imbalance from Multiple Sources. *Journal of Climate*, **29**, 7495-7505, <http://dx.doi.org/10.1175/JCLI-D-16-0339.1>
- Turiel, A., M. Piles, V. González-Gambau, J. Ballabrera-Poy, C. Gabarró, J. Martínez, E. Olmedo, M. Portabella, F. Pérez, and J. Solé, 2016: 2000 days of SMOS at the Barcelona Expert Centre: a tribute to the work of Jordi Font. *Scientia Marina*, **80**, 21, <http://dx.doi.org/10.3989/scimar.04291.15A>
- Turpin, V., E. Remy, and P. Y. Le Traon, 2016: How essential are Argo observations to constrain a global ocean data assimilation system? *Ocean Science*, **12**, 257-274, <http://dx.doi.org/10.5194/os-12-257-2016>
- Turuncoglu, U. U. and G. Sannino, 2016: Validation of newly designed regional earth system model (RegESM) for Mediterranean Basin. *Climate Dynamics*, 1-29, <http://dx.doi.org/10.1007/s00382-016-3241-1>
- Ulses, C., P. A. Auger, K. Soetaert, P. Marsaleix, F. Diaz, L. Coppola, M. J. Herrmann, F. Kessouri, and C. Estournel, 2016: Budget of organic carbon in the North-Western Mediterranean open sea over the period 2004–2008 using 3-D coupled physical-biogeochemical modeling. *Journal of Geophysical Research: Oceans*, **121**, 7026-7055, <http://dx.doi.org/10.1002/2016JC011818>
- Verdière, A. C. d. and M. Ollitrault, 2016: A Direct Determination of the World Ocean Barotropic Circulation. *Journal of Physical Oceanography*, **46**, 255-273, <http://dx.doi.org/10.1175/JPO-D-15-0046.1>
- Viglione, G. A. and A. F. Thompson, 2016: Lagrangian pathways of upwelling in the Southern Ocean. *Journal of Geophysical Research: Oceans*, **121**, 6295-6309, <http://dx.doi.org/10.1002/2016JC011773>
- Visinelli, L., S. Masina, M. Vichi, A. Storto, and T. Lovato, 2016: Impacts of data assimilation on the global ocean carbonate system. *Journal of Marine Systems*, **158**, 106-119, <http://dx.doi.org/10.1016/j.jmarsys.2016.02.011>
- von Appen, W.-J., U. Schauer, T. Hattermann, and A. Beszczynska-Möller, 2016: Seasonal Cycle of Mesoscale Instability of the West Spitsbergen Current. *Journal of Physical Oceanography*, **46**, 1231-1254, <http://dx.doi.org/10.1175/JPO-D-15-0184.1>
- von Schuckmann, K., P.-Y. Le Traon, E. Alvarez-Fanjul, L. Axell, M. Balmaseda, L.-A. Breivik, R. J. W. Brewin, C. Bricaud, M. Drevillon, Y. Drillet, C. Dubois, O. Embury, H. Etienne, M. G. Sotillo, G. Garric, F. Gasparin, E. Gutknecht, S. Guinehut, F. Hernandez, M. Juza, B. Karlson, G. Korres, J.-F. Legeais, B. Levier, V. S. Lien, R. Morrow, G. Notarstefano, L.

- Parent, Á. Pascual, B. Pérez-Gómez, C. Perruche, N. Pinardi, A. Pisano, P.-M. Poulain, I. M. Pujol, R. P. Raj, U. Raudsepp, H. Roquet, A. Samuelsen, S. Sathyendranath, J. She, S. Simoncelli, C. Solidoro, J. Tinker, J. Tintoré, L. Viktorsson, M. Ablain, E. Almroth-Rosell, A. Bonaduce, E. Clementi, G. Cossarini, Q. Dagneaux, C. Desportes, S. Dye, C. Fratianni, S. Good, E. Greiner, J. Gouillon, M. Hamon, J. Holt, P. Hyder, J. Kennedy, F. Manzano-Muñoz, A. Melet, B. Meyssignac, S. Mulet, B. Buongiorno Nardelli, E. O'Dea, E. Olason, A. Paulmier, I. Pérez-González, R. Reid, M.-F. Racault, D. E. Raitsos, A. Ramos, P. Sykes, T. Szekely, and N. Verbrugge, 2016: The Copernicus Marine Environment Monitoring Service Ocean State Report. *Journal of Operational Oceanography*, **9**, s235-s320, <http://dx.doi.org/10.1080/1755876X.2016.1273446>
- von Schuckmann, K., M. D. Palmer, K. E. Trenberth, A. Cazenave, D. Chambers, N. Champollion, J. Hansen, S. A. Josey, N. Loeb, P. P. Mathieu, B. Meyssignac, and M. Wild, 2016: An imperative to monitor Earth's energy imbalance. *Nature Clim. Change*, **6**, 138-144, <http://dx.doi.org/10.1038/nclimate2876>
- Wakita, M., M. C. Honda, K. Matsumoto, T. Fujiki, H. Kawakami, S. Yasunaka, Y. Sasai, C. Sukigara, M. Uchimiya, M. Kitamura, T. Kobari, Y. Mino, A. Nagano, S. Watanabe, and T. Saino, 2016: Biological organic carbon export estimated from the annual carbon budget observed in the surface waters of the western subarctic and subtropical North Pacific Ocean from 2004 to 2013. *Journal of Oceanography*, 1-21, <http://dx.doi.org/10.1007/s10872-016-0379-8>
- Wang, F., J. Wang, C. Guan, Q. Ma, and D. Zhang, 2016: Mooring observations of equatorial currents in the upper 1000 m of the western Pacific Ocean during 2014. *Journal of Geophysical Research: Oceans*, **121**, 3730-3740, <http://dx.doi.org/10.1002/2015JC011510>
- Wang, G., L. Wu, N. C. Johnson, and Z. Ling, 2016: Observed three-dimensional structure of ocean cooling induced by Pacific tropical cyclones. *Geophysical Research Letters*, **43**, 7632-7638, <http://dx.doi.org/10.1002/2016GL069605>
- Wang, G., C. Zhao, J. Xu, F. Qiao, and C. Xia, 2016: Verification of an operational ocean circulation-surface wave coupled forecasting system for the China's seas. *Acta Oceanologica Sinica*, **35**, 19-28, <http://dx.doi.org/10.1007/s13131-016-0810-4>
- Wang, S., Z. Liu, C. Pang, and H. Liu, 2016: The decadal modulating eddy field in the upstream Kuroshio Extension and its related mechanisms. *Acta Oceanologica Sinica*, **35**, 9-17, <http://dx.doi.org/10.1007/s13131-015-0741-5>
- Wang, X. and H. Liu, 2016: Seasonal-to-interannual variability of the barrier layer in the western Pacific warm pool associated with ENSO. *Climate Dynamics*, **47**, 375-392, <http://dx.doi.org/10.1007/s00382-015-2842-4>
- Wang, Z., D. Brickman, B. J. W. Greenan, and I. Yashayaev, 2016: An abrupt shift in the Labrador Current System in relation to winter NAO events. *Journal of Geophysical Research: Oceans*, **121**, 5338-5349, <http://dx.doi.org/10.1002/2016JC011721>
- Wells, N. C., 2016: The North Atlantic Ocean and climate change in the UK and northern Europe. *Weather*, **71**, 3-6, <http://dx.doi.org/10.1002/wea.2558>
- Westberry, T. K., P. Schultz, M. J. Behrenfeld, J. P. Dunne, M. R. Hiscock, S. Maritorea, J. L. Sarmiento, and D. A. Siegel, 2016: Annual cycles of phytoplankton biomass in the subarctic Atlantic and Pacific Ocean. *Global Biogeochemical Cycles*, **30**, 175-190,

<http://dx.doi.org/10.1002/2015GB005276>

- Westerlund, A. and L. Tuomi, 2016: Vertical temperature dynamics in the Northern Baltic Sea based on 3D modelling and data from shallow-water Argo floats. *Journal of Marine Systems*, **158**, 34-44, <http://dx.doi.org/10.1016/j.jmarsys.2016.01.006>
- Wijesekera, H. W., E. Shroyer, A. Tandon, M. Ravichandran, D. Sengupta, S. U. P. Jinadasa, H. J. S. Fernando, N. Agrawal, K. Arulananthan, G. S. Bhat, M. Baumgartner, J. Buckley, L. Centurioni, P. Conry, J. T. Farrar, A. L. Gordon, V. Hormann, E. Jarosz, T. G. Jensen, S. Johnston, M. Lankhorst, C. M. Lee, L. S. Leo, I. Lozovatsky, A. J. Lucas, J. Mackinnon, A. Mahadevan, J. Nash, M. M. Omand, H. Pham, R. Pinkel, L. Rainville, S. Ramachandran, D. L. Rudnick, S. Sarkar, U. Send, R. Sharma, H. Simmons, K. M. Stafford, L. S. Laurent, K. Venayagamoorthy, R. Venkatesan, W. J. Teague, D. W. Wang, A. F. Waterhouse, R. Weller, and C. B. Whalen, 2016: ASIRI: An Ocean–Atmosphere Initiative for Bay of Bengal. *Bulletin of the American Meteorological Society*, **97**, 1859-1884, <https://doi.org/10.1175/BAMS-D-14-00197.1>
- Wijffels, S., D. Roemmich, D. Monselesan, J. Church, and J. Gilson, 2016: Ocean temperatures chronicle the ongoing warming of Earth. *Nature Clim. Change*, **6**, 116-118, <http://dx.doi.org/10.1038/nclimate2924>
- Williams, N. L., L. W. Juranek, K. S. Johnson, R. A. Feely, S. C. Riser, L. D. Talley, J. L. Russell, J. L. Sarmiento, and R. Wanninkhof, 2016: Empirical algorithms to estimate water column pH in the Southern Ocean. *Geophysical Research Letters*, **43**, 3415-3422, <http://dx.doi.org/10.1002/2016GL068539>
- Wilson, E. A. and S. C. Riser, 2016: An Assessment of the Seasonal Salinity Budget for the Upper Bay of Bengal. *Journal of Physical Oceanography*, **46**, 1361-1376, <http://dx.doi.org/10.1175/JPO-D-15-0147.1>
- Wu, G., F. Zhai, and D. Hu, 2016: Interannual variations of North Equatorial Current transport in the Pacific Ocean during two types of El Niño. *Chinese Journal of Oceanology and Limnology*, **34**, 585-596, <http://dx.doi.org/10.1007/s00343-015-4352-y>
- Wunsch, C. (2016), Global Ocean Integrals and Means, with Trend Implications, *Annual Review of Marine Science*, 8(1), 1-33, doi: <https://doi.org/10.1146/annurev-marine-122414-034040>.
- Xia, S., C. Ke, X. Zhou, and J. Zhang, 2016: Assessment and adjustment of sea surface salinity products from Aquarius in the southeast Indian Ocean based on in situ measurement and MyOcean modeled data. *Acta Oceanologica Sinica*, **35**, 54-62, <http://dx.doi.org/10.1007/s13131-016-0818-9>
- Xiao, J., Q. Xie, D. Wang, L. Yang, Y. Shu, C. Liu, J. Chen, J. Yao, and G. Chen, 2016: On the near-inertial variations of meridional overturning circulation in the South China Sea. *Ocean Science*, **12**, 335-344, <http://dx.doi.org/10.5194/os-12-335-2016>
- Xu, F. and A. Ignatov, 2016: Error characterization in iQuam SSTs using triple collocations with satellite measurements. *Geophysical Research Letters*, **43**, 10,826-10,834, <http://dx.doi.org/10.1002/2016GL070287>
- Xu, L., P. Li, S.-P. Xie, Q. Liu, C. Liu, and W. Gao, 2016: Observing mesoscale eddy effects on mode-water subduction and transport in the North Pacific. *Nat Commun*, **7**, <http://dx.doi.org/10.1038/ncomms10505>
- Yan, X.-H., T. Boyer, K. Trenberth, T. R. Karl, S.-P. Xie, V. Nieves, K.-K. Tung, and D. Roemmich,

- 2016: The global warming hiatus: Slowdown or redistribution? *Earth's Future*, **4**, 472-482, <http://dx.doi.org/10.1002/2016EF000417>
- Yang, C., S. Masina, A. Bellucci, and A. Storto, 2016: The Rapid Warming of the North Atlantic Ocean in the Mid-1990s in an Eddy-Permitting Ocean Reanalysis (1982–2013). *Journal of Climate*, **29**, 5417-5430, <http://dx.doi.org/10.1175/JCLI-D-15-0438.1>
- Yang, L. and D. Yuan, 2016: Absolute geostrophic currents in global tropical oceans. *Chinese Journal of Oceanology and Limnology*, **34**, 1383-1393, <http://dx.doi.org/10.1007/s00343-016-5092-3>
- Yang, L. and D. Yuan, 2016: Heat and salt transport throughout the North Pacific Ocean. *Chinese Journal of Oceanology and Limnology*, **34**, 1347-1357, <http://dx.doi.org/10.1007/s00343-016-5125-y>
- Yashayaev, I. and J. W. Loder, 2016: Recurrent replenishment of Labrador Sea Water and associated decadal-scale variability. *Journal of Geophysical Research: Oceans*, **121**, 8095-8114, <http://dx.doi.org/10.1002/2016JC012046>
- Yasunaka, S., T. Ono, Y. Nojiri, F. A. Whitney, C. Wada, A. Murata, S. Nakaoka, and S. Hosoda, 2016: Long-term variability of surface nutrient concentrations in the North Pacific. *Geophysical Research Letters*, **43**, 3389-3397, <http://dx.doi.org/10.1002/2016GL068097>
- Yin, X., J. Boutin, E. Dinnat, Q. Song, and A. Martin, 2016: Roughness and foam signature on SMOS-MIRAS brightness temperatures: A semi-theoretical approach. *Remote Sensing of Environment*, **180**, 221-233, <http://dx.doi.org/10.1016/j.rse.2016.02.005>
- Zeng, L., D. Wang, J. Chen, W. Wang, and R. Chen, 2016: SCSPD14, a South China Sea physical oceanographic dataset derived from in situ measurements during 1919–2014. *Scientific Data*, **3**, 160029, <http://dx.doi.org/10.1038/sdata.2016.29>
- Zhang, N., M. Feng, Y. Du, J. Lan, and S. E. Wijffels, 2016: Seasonal and interannual variations of mixed layer salinity in the southeast tropical Indian Ocean. *Journal of Geophysical Research: Oceans*, **121**, 4716-4731, <http://dx.doi.org/10.1002/2016JC011854>
- Zhang, R., S.-P. Xie, L. Xu, and Q. Liu, 2016: Changes in mixed layer depth and spring bloom in the Kuroshio extension under global warming. *Advances in Atmospheric Sciences*, **33**, 452-461, <http://dx.doi.org/10.1007/s00376-015-5113-8>
- Zhang, Y., C. Chen, R. C. Beardsley, G. Gao, Z. Lai, B. Curry, C. M. Lee, H. Lin, J. Qi, and Q. Xu, 2016: Studies of the Canadian Arctic Archipelago water transport and its relationship to basin-local forcings: Results from AO-FVCOM. *Journal of Geophysical Research: Oceans*, **121**, 4392-4415, <http://dx.doi.org/10.1002/2016JC011634>
- Zhang, Y., Y. Du, and T. Qu, 2016: A sea surface salinity dipole mode in the tropical Indian Ocean. *Climate Dynamics*, 1-13, <http://dx.doi.org/10.1007/s00382-016-2984-z>
- Zhang, Z., J. Tian, B. Qiu, W. Zhao, P. Chang, D. Wu, and X. Wan, 2016: Observed 3D Structure, Generation, and Dissipation of Oceanic Mesoscale Eddies in the South China Sea. *Scientific Reports*, **6**, 24349, <http://dx.doi.org/10.1038/srep24349>
- Zhao, H., C. Li, H. Li, K. Lv, and Q. Zhao, 2016: Retrieve sea surface salinity using principal component regression model based on SMOS satellite data. *Journal of Ocean University of China*, **15**, 399-406, <http://dx.doi.org/10.1007/s11802-016-2817-z>
- Zhao, M., H. H. Hendon, Y. Yin, and O. Alves, 2016: Variations of Upper-Ocean Salinity

- Associated with ENSO from PEOODAS Reanalyses. *Journal of Climate*, **29**, 2077-2094, <http://dx.doi.org/10.1175/JCLI-D-15-0650.1>
- Zhao, Z., 2016: Using CryoSat-2 altimeter data to evaluate M2 internal tides observed from multisatellite altimetry. *Journal of Geophysical Research: Oceans*, **121**, 5164-5180, <http://dx.doi.org/10.1002/2016JC011805>
- Zhao, Z., 2016: Internal tide oceanic tomography. *Geophysical Research Letters*, **43**, 9157-9164, <http://dx.doi.org/10.1002/2016GL070567>
- Zhao, Y., C. Zhao, R. Sun, and Z. Wang, 2016: A Multiple Linear Regression Model for Tropical Cyclone Intensity Estimation from Satellite Infrared Images. *Atmosphere*, **7**, 40, <https://doi.org/10.3390/atmos7030040>
- Zhi, H., R.-H. Zhang, F. Zheng, P. Lin, L. Wang, and P. Yu, 2016: Assessment of interannual sea surface salinity variability and its effects on the barrier layer in the equatorial Pacific using BNU-ESM. *Advances in Atmospheric Sciences*, **33**, 339-351, <http://dx.doi.org/10.1007/s00376-015-5163-y>
- Zhou, W., M. Chen, W. Zhuang, F. Xu, F. Zheng, T. Wu, and X. Wang, 2016: Evaluation of the tropical variability from the Beijing Climate Center's real-time operational global Ocean Data Assimilation System. *Advances in Atmospheric Sciences*, **33**, 208-220, <http://dx.doi.org/10.1007/s00376-015-4282-9>

2015 (392)

- Abernathey, R. and C. Wortham, 2015: Phase Speed Cross Spectra of Eddy Heat Fluxes in the Eastern Pacific. *Journal of Physical Oceanography*, **45**, 1285-1301, <http://dx.doi.org/10.1175/JPO-D-14-0160.1>
- Ablain, M., A. Cazenave, G. Larnicol, M. Balmaseda, P. Cipollini, Y. Faugère, M. J. Fernandes, O. Henry, J. A. Johannessen, P. Knudsen, O. Andersen, J. Legeais, B. Meyssignac, N. Picot, M. Roca, S. Rudenko, M. G. Scharffenberg, D. Stammer, G. Timms, and J. Benveniste, 2015: Improved sea level record over the satellite altimetry era (1993–2010) from the Climate Change Initiative project. *Ocean Science*, **11**, 67-82, <http://dx.doi.org/10.5194/os-11-67-2015>
- Alory, G., T. Delcroix, P. Téchiné, D. Diverrès, D. Varillon, S. Cravatte, Y. Gouriou, J. Grelet, S. Jacquin, E. Kestenare, C. Maes, R. Morrow, J. Perrier, G. Reverdin, and F. Roubaud, 2015: The French contribution to the voluntary observing ships network of sea surface salinity. *Deep Sea Research Part I: Oceanographic Research Papers*, **105**, 1-18, <http://dx.doi.org/10.1016/j.dsr.2015.08.005>
- Amaya, D. J., S.-P. Xie, A. J. Miller, and M. J. McPhaden, 2015: Seasonality of tropical Pacific decadal trends associated with the 21st century global warming hiatus. *Journal of Geophysical Research: Oceans*, **120**, 6782-6798, <http://dx.doi.org/10.1002/2015JC010906>
- André, X., B. Moreau, and S. Le Reste, 2015: Argos-3 Satellite Communication System: Implementation on the Arvor Oceanographic Profiling Floats. *Journal of Atmospheric and Oceanic Technology*, **32**, 1902-1914, <http://dx.doi.org/10.1175/JTECH-D-14-00219.1>
- Anilkumar, N., J. V. George, R. Chacko, N. Nuncio, and P. Sabu, 2015: Variability of fronts,

- fresh water input and chlorophyll in the Indian Ocean sector of the Southern Ocean. *New Zealand Journal of Marine and Freshwater Research*, **49**, 20-40, <http://dx.doi.org/10.1080/00288330.2014.924972>
- Ansorge, I. J., J. M. Jackson, K. Reid, J. V. Durgadoo, S. Swart, and S. Eberenz, 2015: Evidence of a southward eddy corridor in the South-West Indian ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, **119**, 69-76, <http://dx.doi.org/10.1016/j.dsr2.2014.05.012>
- Aoki, S., G. Mizuta, H. Sasaki, Y. Sasai, S. Rintoul, and N. Bindoff, 2015: Atlantic–Pacific asymmetry of subsurface temperature change and frontal response of the Antarctic Circumpolar Current for the recent three decades. *Journal of Oceanography*, **71**, 623-636, <http://dx.doi.org/10.1007/s10872-015-0284-6>
- Ascani, F., E. Firing, J. P. McCreary, P. Brandt, and R. J. Greatbatch, 2015: The Deep Equatorial Ocean Circulation in Wind-Forced Numerical Solutions. *Journal of Physical Oceanography*, **45**, 1709-1734, <http://dx.doi.org/10.1175/JPO-D-14-0171.1>
- Azevedo Correia de Souza, J. M., B. Powell, A. C. Castillo-Trujillo, and P. Flament, 2015: The Vorticity Balance of the Ocean Surface in Hawaii from a Regional Reanalysis. *Journal of Physical Oceanography*, **45**, 424-440, <http://dx.doi.org/10.1175/JPO-D-14-0074.1>
- Balaguru, K., G. R. Foltz, L. R. Leung, E. D. Asaro, K. A. Emanuel, H. Liu, and S. E. Zedler, 2015: Dynamic Potential Intensity: An improved representation of the ocean's impact on tropical cyclones. *Geophysical Research Letters*, **42**, 6739-6746, <http://dx.doi.org/10.1002/2015GL064822>
- Balmaseda, M. A., F. Hernandez, A. Storto, M. D. Palmer, O. Alves, L. Shi, G. C. Smith, T. Toyoda, M. Valdivieso, B. Barnier, D. Behringer, T. Boyer, Y. S. Chang, G. A. Chepurin, N. Ferry, G. Forget, Y. Fujii, S. Good, S. Guinehut, K. Haines, Y. Ishikawa, S. Keeley, A. Köhl, T. Lee, M. J. Martin, S. Masina, S. Masuda, B. Meyssignac, K. Mogensen, L. Parent, K. A. Peterson, Y. M. Tang, Y. Yin, G. Vernieres, X. Wang, J. Waters, R. Wedd, O. Wang, Y. Xue, M. Chevallier, J. F. Lemieux, F. Dupont, T. Kuragano, M. Kamachi, T. Awaji, A. Caltabiano, K. Wilmer-Becker, and F. Gaillard, 2015: The Ocean Reanalyses Intercomparison Project (ORA-IP). *Journal of Operational Oceanography*, **8**, s80-s97, <http://dx.doi.org/10.1080/1755876X.2015.1022329>
- Baringer, M. O., W. E. Johns, W. R. Hobbs, S. Garzoli, S. Dong, and J. Willis, 2015: Global Oceans: Meridional oceanic heat transport in the Atlantic Ocean, In State of the Climate in 2014. *Bulletin of the American Meteorological Society*, **96**, S81-S82, <http://dx.doi.org/10.1175/2015BAMSStateoftheClimate.1>
- Baringer, M. O., G. D. McCarthy, J. K. Willis, D. A. Smeed, D. Rayner, W. E. Johns, C. S. Meinen, M. Lankhorst, U. Send, S. A. Cunningham, and T. O. Kanzow, 2015: Global Oceans: Meridional overturning circulation observations in the North Atlantic Ocean, In State of the Climate in 2014. *Bulletin of the American Meteorological Society*, **96**, S78 - S80, <http://dx.doi.org/10.1175/2015BAMSStateoftheClimate.1>
- Barthélemy, A., T. Fichfet, H. Goosse, and G. Madec, 2015: Modeling the interplay between sea ice formation and the oceanic mixed layer: Limitations of simple brine rejection parameterizations. *Ocean Modelling*, **86**, 141-152, <http://dx.doi.org/10.1016/j.ocemod.2014.12.009>
- Barton, A. D., M. S. Lozier, and R. G. Williams, 2015: Physical controls of variability in North

- Atlantic phytoplankton communities. *Limnology and Oceanography*, **60**, 181-197, <http://dx.doi.org/10.1002/lno.10011>
- Bashmachnikov, I., Â. Nascimento, F. Neves, T. Menezes, and N. V. Koldunov, 2015: Distribution of intermediate water masses in the subtropical northeast Atlantic. *Ocean Science*, **11**, 803-827, <http://dx.doi.org/10.5194/os-11-803-2015>
- Bashmachnikov, I., F. Neves, T. Calheiros, and X. Carton, 2015: Properties and pathways of Mediterranean water eddies in the Atlantic. *Progress in Oceanography*, **137, Part A**, 149-172, <http://dx.doi.org/10.1016/j.pocean.2015.06.001>
- Bashmachnikov, I., F. Neves, Â. Nascimento, J. Medeiros, I. Ambar, J. Dias, and X. Carton, 2015: Temperature–salinity distribution in the northeastern Atlantic from ship and Argo vertical casts. *Ocean Science*, **11**, 215-236, <http://dx.doi.org/10.5194/os-11-215-2015>
- Beal, L. M., S. Elipot, A. Houk, and G. M. Leber, 2015: Capturing the Transport Variability of a Western Boundary Jet: Results from the Agulhas Current Time-Series Experiment (ACT). *Journal of Physical Oceanography*, **45**, 1302-1324, <http://dx.doi.org/10.1175/JPO-D-14-0119.1>
- Beazley, L., E. Kenchington, I. Yashayaev, and F. J. Murillo, 2015: Drivers of epibenthic megafaunal composition in the sponge grounds of the Sackville Spur, northwest Atlantic. *Deep Sea Research Part I: Oceanographic Research Papers*, **98**, 102-114, <http://dx.doi.org/10.1016/j.dsr.2014.11.016>
- Bell, M. J., A. Schiller, P. Y. Le Traon, N. R. Smith, E. Dombrowsky, and K. Wilmer-Becker, 2015: An introduction to GODAE OceanView. *Journal of Operational Oceanography*, **8**, s2-s11, <http://dx.doi.org/10.1080/1755876X.2015.1022041>
- Berelson, W. M., W. Z. Haskell li, M. Prokopenko, A. N. Knapp, D. E. Hammond, N. Rollins, and D. G. Capone, 2015: Biogenic particle flux and benthic remineralization in the Eastern Tropical South Pacific. *Deep Sea Research Part I: Oceanographic Research Papers*, **99**, 23-34, <http://dx.doi.org/10.1016/j.dsr.2014.12.006>
- Bhaskar, T. V. S., N. S. Kumar, M. Ravichandran, and K. D. A. Kumar, 2015: On the Possible Use of Satellite Fixed Positions for Argo Float Profiles in Case of Wrong Fixes by GPS. *International Journal of Earth Science and Engineering*, **8**, 710-715,
- Bhaskar, T. V. S. U. and C. Jayaram, 2015: Evaluation of Aquarius Sea Surface Salinity With Argo Sea Surface Salinity in the Tropical Indian Ocean. *Ieee Geoscience and Remote Sensing Letters*, **12**, 1292-1296, <https://doi.org/10.1109/LGRS.2015.2393894>
- Bingham, F. M., P. Li, Z. Li, Q. Vu, and Y. Chao, 2015: Data management support for the SPURS Atlantic field campaign. *Oceanography*, **28**, 46-55, <http://dx.doi.org/10.5670/oceanog.2015.13>
- Bittig, H. C. and A. Körtzinger, 2015: Tackling Oxygen Optode Drift: Near-Surface and In-Air Oxygen Optode Measurements on a Float Provide an Accurate in Situ Reference. *Journal of Atmospheric and Oceanic Technology*, **32**, 1536-1543, <http://dx.doi.org/10.1175/JTECH-D-14-00162.1>
- Blanke, B., S. Speich, and E. Rusciano, 2015: Lagrangian water mass tracing from pseudo-Argo, model-derived salinity, tracer and velocity data: An application to Antarctic Intermediate Water in the South Atlantic Ocean. *Ocean Modelling*, **85**, 56-67, <http://dx.doi.org/10.1016/j.ocemod.2014.11.004>

- Bond, N. A., M. F. Cronin, and H. Freeland, 2015: The Blob: An extreme warm anomaly in the northeast Pacific - 2015. *Bulletin of the American Meteorological Society*, **96**, <http://dx.doi.org/10.1175/2015BAMSStateoftheClimate.1>
- Bond, N. A., M. F. Cronin, H. Freeland, and N. Mantua, 2015: Causes and impacts of the 2014 warm anomaly in the NE Pacific. *Geophysical Research Letters*, **42**, 3414-3420, <http://dx.doi.org/10.1002/2015GL063306>
- Bosse, A., P. Testor, L. Mortier, L. Prieur, V. Taillandier, F. d'Ortenzio, and L. Coppola, 2015: Spreading of Levantine Intermediate Waters by submesoscale coherent vortices in the northwestern Mediterranean Sea as observed with gliders. *Journal of Geophysical Research: Oceans*, **120**, 1599-1622, <http://dx.doi.org/10.1002/2014JC010263>
- Bowie, A. R., P. van der Merwe, F. Qu  rou  , T. Trull, M. Fourquez, F. Planchon, G. Sarthou, F. Chever, A. T. Townsend, I. Obernosterer, J. B. Sall  e, and S. Blain, 2015: Iron budgets for three distinct biogeochemical sites around the Kerguelen Archipelago (Southern Ocean) during the natural fertilisation study, KEOPS-2. *Biogeosciences*, **12**, 4421-4445, <http://dx.doi.org/10.5194/bg-12-4421-2015>
- Boyer, T., J. Antonov, J. Reagan, C. Schmid, and R. Locarnini, 2015: Global Oceans: Subsurface Salinity, In State of the Climate in 2014. *Bulletin of the American Meteorological Society*, **96**, S74-S76, <http://dx.doi.org/10.1175/2015BAMSStateoftheClimate.1>
- Brannigan, L., D. P. Marshall, A. Naveira-Garabato, and A. J. George Nurser, 2015: The seasonal cycle of submesoscale flows. *Ocean Modelling*, **92**, 69-84, <http://dx.doi.org/10.1016/j.ocemod.2015.05.002>
- Brewin, R. J. W., S. Sathyendranath, T. Jackson, R. Barlow, V. Brotas, R. Airs, and T. Lamont, 2015: Influence of light in the mixed-layer on the parameters of a three-component model of phytoplankton size class. *Remote Sensing of Environment*, **168**, 437-450, <http://dx.doi.org/10.1016/j.rse.2015.07.004>
- Brix, H., D. Menemenlis, C. Hill, S. Dutkiewicz, O. Jahn, D. Wang, K. Bowman, and H. Zhang, 2015: Using Green's Functions to initialize and adjust a global, eddying ocean biogeochemistry general circulation model. *Ocean Modelling*, **95**, 1-14, <http://dx.doi.org/10.1016/j.ocemod.2015.07.008>
- Brodeau, L. and T. Koenigk, 2015: Extinction of the northern oceanic deep convection in an ensemble of climate model simulations of the 20th and 21st centuries. *Climate Dynamics*, 1-20, <http://dx.doi.org/10.1007/s00382-015-2736-5>
- Brossier, C. L., S. Bastin, K. B  ranger, and P. Drobinski, 2015: Regional mesoscale air-sea coupling impacts and extreme meteorological events role on the Mediterranean Sea water budget. *Climate Dynamics*, **44**, 1029-1051, <http://dx.doi.org/10.1007/s00382-014-2252-z>
- Brune, S., L. Nerger, and J. Baehr, 2015: Assimilation of oceanic observations in a global coupled Earth system model with the SEIK filter. *Ocean Modelling*, **96, Part 2**, 254-264, <http://dx.doi.org/10.1016/j.ocemod.2015.09.011>
- Bryan, F. and S. Bachman, 2015: Isohaline Salinity Budget of the North Atlantic Salinity Maximum. *Journal of Physical Oceanography*, **45**, 724-736, <http://dx.doi.org/10.1175/JPO-D-14-0172.1>
- Bushinsky, S. M. and S. Emerson, 2015: Marine biological production from in situ oxygen

- measurements on a profiling float in the subarctic Pacific Ocean. *Global Biogeochemical Cycles*, **29**, 2050-2060, <http://dx.doi.org/10.1002/2015GB005251>
- Camara, I., N. Kolodziejczyk, J. Mignot, A. Lazar, and A. T. Gaye, 2015: On the seasonal variations of salinity of the tropical Atlantic mixed layer. *Journal of Geophysical Research: Oceans*, **120**, 4441-4462, <http://dx.doi.org/10.1002/2015JC010865>
- Candille, G., J. M. Brankart, and P. Brasseur, 2015: Assessment of an ensemble system that assimilates Jason-1/Envisat altimeter data in a probabilistic model of the North Atlantic ocean circulation. *Ocean Science*, **11**, 425-438, <http://dx.doi.org/10.5194/os-11-425-2015>
- Canepa, E., S. Pensieri, R. Bozzano, M. Faimali, P. Traverso, and L. Cavaleri, 2015: The ODAS Italia 1 buoy: More than forty years of activity in the Ligurian Sea. *Progress in Oceanography*, **135**, 48-63, <http://dx.doi.org/10.1016/j.pocean.2015.04.005>
- Cao, Z. and R. Hu, 2015: Research on the interannual variability of the great whirl and the related mechanisms. *Journal of Ocean University of China*, **14**, 17-26, <http://dx.doi.org/10.1007/s11802-015-2392-8>
- Carranza, M. M. and S. T. Gille, 2015: Southern Ocean wind-driven entrainment enhances satellite chlorophyll-a through the summer. *Journal of Geophysical Research: Oceans*, **120**, 304-323, <http://dx.doi.org/10.1002/2014JC010203>
- Carse, F., M. J. Martin, A. Sellar, and E. W. Blockley, 2015: Impact of assimilating temperature and salinity measurements by animal-borne sensors on FOAM ocean model fields. *Quarterly Journal of the Royal Meteorological Society*, **141**, 2934-2943, <http://dx.doi.org/10.1002/qj.2613>
- Castellanos, P., J. L. Pelegrí, E. J. D. Campos, M. Rosell-Fieschi, and M. Gasser, 2015: Response of the surface tropical Atlantic Ocean to wind forcing. *Progress in Oceanography*, **134**, 271-292, <http://dx.doi.org/10.1016/j.pocean.2015.02.005>
- Chacko, N., D. Dutta, M. M. Ali, J. R. Sharma, and V. K. Dadhwal, 2015: Near-Real-Time Availability of Ocean Heat Content Over the North Indian Ocean. *IEEE Geoscience and Remote Sensing Letters*, **12**, 1033-1036, <https://doi.org/10.1109/LGRS.2014.2375196>
- Chaitanya, A. V. S., F. Durand, S. Mathew, V. Gopalakrishna, F. Papa, M. Lengaigne, J. Vialard, C. Kranthikumar, and R. Venkatesan, 2015: Observed year-to-year sea surface salinity variability in the Bay of Bengal during the 2009–2014 period. *Ocean Dynamics*, **65**, 173-186, <http://dx.doi.org/10.1007/s10236-014-0802-x>
- Chakraborty, A., R. Kumar, S. Basu, and R. Sharma, 2015: Improving Ocean State by Assimilating SARAL/AltiKa Derived Sea Level and Other Satellite-Derived Data in MITGCM. *Marine Geodesy*, **38**, 328-338, <http://dx.doi.org/10.1080/01490419.2014.1002142>
- Chakraborty, A., R. Sharma, R. Kumar, and S. Basu, 2015: Joint assimilation of Aquarius-derived sea surface salinity and AVHRR-derived sea surface temperature in an ocean general circulation model using SEEK filter: Implication for mixed layer depth and barrier layer thickness. *Journal of Geophysical Research: Oceans*, **120**, 6927-6942, <http://dx.doi.org/10.1002/2015JC010934>
- Chao, Y., J. D. Farrara, G. Schumann, K. M. Andreadis, and D. Moller, 2015: Sea surface salinity variability in response to the Congo river discharge. *Continental Shelf*

- Research*, **99**, 35-45, <http://dx.doi.org/10.1016/j.csr.2015.03.005>
- Chen, G. and H. Chen, 2015: Interannual Modality of Upper-Ocean Temperature: 4D Structure Revealed by Argo Data. *Journal of Climate*, **28**, 3441-3452, <http://dx.doi.org/10.1175/JCLI-D-14-00351.1>
- Chen, G. and F. Yu, 2015: An objective algorithm for estimating maximum oceanic mixed layer depth using seasonality indices derived from Argo temperature/salinity profiles. *Journal of Geophysical Research: Oceans*, **120**, 582-595, <http://dx.doi.org/10.1002/2014JC010383>
- Chen, K. and R. He, 2015: Mean circulation in the coastal ocean off northeastern North America from a regional-scale ocean model. *Ocean Science*, **11**, 503-517, <http://dx.doi.org/10.5194/os-11-503-2015>
- Chen, Z., L. Wu, B. Qiu, L. Li, D. Hu, C. Liu, F. Jia, and X. Liang, 2015: Strengthening Kuroshio observed at its origin during November 2010 to October 2012. *Journal of Geophysical Research: Oceans*, **120**, 2460-2470, <http://dx.doi.org/10.1002/2014JC010590>
- Cheng, L., F. Zheng, and J. Zhu, 2015: Distinctive ocean interior changes during the recent warming slowdown. *Scientific Reports*, **5**, 14346, <http://dx.doi.org/10.1038/srep14346>
- Cheng, L. and J. Zhu, 2015: Influences of the Choice of Climatology on Ocean Heat Content Estimation. *Journal of Atmospheric and Oceanic Technology*, **32**, 388-394, <http://dx.doi.org/10.1175/JTECH-D-14-00169.1>
- Cheng, L., J. Zhu, and R. L. Sriver, 2015: Global representation of tropical cyclone-induced short-term ocean thermal changes using Argo data. *Ocean Science*, **11**, 719-741, <http://dx.doi.org/10.5194/os-11-719-2015>
- Chiswell, S. M., H. C. Bostock, P. J. H. Sutton, and M. J. M. Williams, 2015: Physical oceanography of the deep seas around New Zealand: a review. *New Zealand Journal of Marine and Freshwater Research*, **49**, 286-317, <http://dx.doi.org/10.1080/00288330.2014.992918>
- Chiswell, S. M. and P. J. H. Sutton, 2015: Drifter- and float-derived mean circulation at the surface and 1000 m in the New Zealand region. *New Zealand Journal of Marine and Freshwater Research*, **49**, 259-277, <http://dx.doi.org/10.1080/00288330.2015.1008522>
- Choi, Y., 2015: Comparative simulation study of effects of eddy-topography interaction in the East/Japan Sea deep circulation. *Acta Oceanologica Sinica*, **34**, 1-18, <http://dx.doi.org/10.1007/s13131-015-0693-1>
- Chu, P. C., R. T. Tokmakian, C. Fan, and L. C. Sun, 2015: Optimal Spectral Decomposition (OSD) for Ocean Data Assimilation. *Journal of Atmospheric and Oceanic Technology*, **32**, 828-841, <http://dx.doi.org/10.1175/JTECH-D-14-00079.1>
- Closset, I., D. Cardinal, S. G. Bray, F. Thil, I. Djouaev, A. S. Rigual-Hernández, and T. W. Trull, 2015: Seasonal variations, origin, and fate of settling diatoms in the Southern Ocean tracked by silicon isotope records in deep sediment traps. *Global Biogeochemical Cycles*, **29**, 1495-1510, <http://dx.doi.org/10.1002/2015GB005180>
- Cole, H. S., S. Henson, A. P. Martin, and A. Yool, 2015: Basin-wide mechanisms for spring bloom initiation: how typical is the North Atlantic? *ICES Journal of Marine Science: Journal du Conseil*, **72**, 2029-2040, <http://dx.doi.org/10.1093/icesjms/fsu239>

- Cole, S. T., C. Wortham, E. Kunze, and W. B. Owens, 2015: Eddy stirring and horizontal diffusivity from Argo float observations: Geographic and depth variability. *Geophysical Research Letters*, **42**, 3989-3997, <http://dx.doi.org/10.1002/2015GL063827>
- Costa, F. B. and C. A. S. Tanajura, 2015: Assimilation of sea-level anomalies and Argo data into HYCOM and its impact on the 24 hour forecasts in the western tropical and South Atlantic. *Journal of Operational Oceanography*, **8**, 52-62, <http://dx.doi.org/10.1080/1755876X.2015.1014646>
- Couhert, A., L. Cerri, J.-F. Legeais, M. Ablain, N. P. Zelensky, B. J. Haines, F. G. Lemoine, W. I. Bertiger, S. D. Desai, and M. Otten, 2015: Towards the 1mm/y stability of the radial orbit error at regional scales. *Advances in Space Research*, **55**, 2-23, <http://dx.doi.org/10.1016/j.asr.2014.06.041>
- Cravatte, S., E. Kestenare, G. Eldin, A. Ganachaud, J. Lefèvre, F. Marin, C. Menkes, and J. Aucan, 2015: Regional circulation around New Caledonia from two decades of observations. *Journal of Marine Systems*, **148**, 249-271, <http://dx.doi.org/10.1016/j.jmarsys.2015.03.004>
- Cronin, M. F., N. A. Pelland, S. R. Emerson, and W. R. Crawford, 2015: Estimating diffusivity from the mixed layer heat and salt balances in the North Pacific. *Journal of Geophysical Research: Oceans*, **120**, 7346-7362, <http://dx.doi.org/10.1002/2015JC011010>
- Czeschel, R., L. Stramma, R. A. Weller, and T. Fischer, 2015: Circulation, eddies, oxygen, and nutrient changes in the eastern tropical South Pacific Ocean. *Ocean Science*, **11**, 455-470, <http://dx.doi.org/10.5194/os-11-455-2015>
- D'Addezio, J. M., B. Subrahmanyam, E. S. Nyadjro, and V. S. N. Murty, 2015: Seasonal Variability of Salinity and Salt Transport in the Northern Indian Ocean. *Journal of Physical Oceanography*, **45**, 1947-1966, <http://dx.doi.org/10.1175/JPO-D-14-0210.1>
- Da-Allada, C. Y., F. Gaillard, and N. Kolodziejczyk, 2015: Mixed-layer salinity budget in the tropical Indian Ocean: seasonal cycle based only on observations. *Ocean Dynamics*, **65**, 845-857, <http://dx.doi.org/10.1007/s10236-015-0837-7>
- DeMott, C. A., N. P. Klingaman, and S. J. Woolnough, 2015: Atmosphere-ocean coupled processes in the Madden-Julian oscillation. *Reviews of Geophysics*, **53**, 1099-1154, <http://dx.doi.org/10.1002/2014RG000478>
- Dieng, H. B., A. Cazenave, K. von Schuckmann, M. Ablain, and B. Meyssignac, 2015: Sea level budget over 2005–2013: missing contributions and data errors. *Ocean Science*, **11**, 789-802, <http://dx.doi.org/10.5194/os-11-789-2015>
- Dieng, H. B., H. Palanisamy, A. Cazenave, B. Meyssignac, and K. von Schuckmann, 2015: The Sea Level Budget Since 2003: Inference on the Deep Ocean Heat Content. *Surveys in Geophysics*, **36**, 209-229, <http://dx.doi.org/10.1007/s10712-015-9314-6>
- Divakaran, P., G. B. Brassington, A. G. Ryan, C. Regnier, T. Spindler, A. Mehra, F. Hernandez, G. C. Smith, Y. Liu, and F. Davidson, 2015: GODAE OceanView Inter-comparison for the Australian Region. *Journal of Operational Oceanography*, **8**, s112-s126, <http://dx.doi.org/10.1080/1755876X.2015.1022333>
- Dobricic, S., C. K. Wikle, R. F. Milliff, N. Pinardi, and L. M. Berliner, 2015: Assimilation of oceanographic observations with estimates of vertical background-error covariances

- by a Bayesian hierarchical model. *Quarterly Journal of the Royal Meteorological Society*, **141**, 182-194, <http://dx.doi.org/10.1002/qj.2348>
- Dohan, K., H.-Y. Kao, and G. S. E. Lagerloef, 2015: The freshwater balance over the North Atlantic SPURS domain from Aquarius satellite salinity, OSCAR satellite surface currents and some simplified approaches. *Oceanography*, **28**, 86-95, <http://dx.doi.org/10.5670/oceanog.2015.07>
- Doi, T., S. Osafune, N. Sugiura, S. Kouketsu, A. Murata, S. Masuda, and T. Toyoda, 2015: Multidecadal change in the dissolved inorganic carbon in a long-term ocean state estimation. *Journal of Advances in Modeling Earth Systems*, **7**, 1885-1900, <http://dx.doi.org/10.1002/2015MS000462>
- Dong, S., G. Goni, and F. Bringas, 2015: Temporal variability of the South Atlantic Meridional Overturning Circulation between 20°S and 35°S. *Geophysical Research Letters*, **42**, 7655-7662, <http://dx.doi.org/10.1002/2015GL065603>
- Dong, S., G. Goni, and R. Lumpkin, 2015: Mixed-layer salinity budget in the SPURS region on seasonal to interannual time scales. *Oceanography*, **28**, 78-85, <http://dx.doi.org/10.5670/oceanog.2015.05>
- d'Ovidio, F., A. Della Penna, T. W. Trull, F. Nencioli, M. I. Pujol, M. H. Rio, Y. H. Park, C. Cotté, M. Zhou, and S. Blain, 2015: The biogeochemical structuring role of horizontal stirring: Lagrangian perspectives on iron delivery downstream of the Kerguelen Plateau. *Biogeosciences*, **12**, 5567-5581, <http://dx.doi.org/10.5194/bg-12-5567-2015>
- Du, Y. and Y. Zhang, 2015: Satellite and Argo Observed Surface Salinity Variations in the Tropical Indian Ocean and Their Association with the Indian Ocean Dipole Mode. *Journal of Climate*, **28**, 695-713, <http://dx.doi.org/10.1175/JCLI-D-14-00435.1>
- Du, Y., Y. Zhang, M. Feng, T. Wang, N. Zhang, and S. Wijffels, 2015: Decadal trends of the upper ocean salinity in the tropical Indo-Pacific since mid-1990s. *Scientific Reports*, **5**, 16050, <http://dx.doi.org/10.1038/srep16050>
- Dupont, F., S. Higginson, R. Bourdallé-Badie, Y. Lu, F. Roy, G. C. Smith, J. F. Lemieux, G. Garric, and F. Davidson, 2015: A high-resolution ocean and sea-ice modelling system for the Arctic and North Atlantic oceans. *Geoscientific Model Development*, **8**, 1577-1594, <http://dx.doi.org/10.5194/gmd-8-1577-2015>
- Durack, P. J., 2015: Ocean salinity and the global water cycle. *Oceanography*, **28**, 20-31, <http://dx.doi.org/10.5670/oceanog.2015.03>
- Durski, S. M., A. L. Kurapov, J. S. Allen, P. M. Kosro, G. D. Egbert, R. K. Shearman, and J. A. Barth, 2015: Coastal ocean variability in the US Pacific Northwest region: seasonal patterns, winter circulation, and the influence of the 2009–2010 El Niño. *Ocean Dynamics*, **65**, 1643-1663, <http://dx.doi.org/10.1007/s10236-015-0891-1>
- Dylmer, C. V., J. Giraudeau, V. Hanquiez, and K. Husum, 2015: The coccolithophores *Emiliania huxleyi* and *Coccolithus pelagicus*: Extant populations from the Norwegian–Iceland Seas and Fram Strait. *Deep Sea Research Part I: Oceanographic Research Papers*, **98**, 1-9, <http://dx.doi.org/10.1016/j.dsr.2014.11.012>
- Estapa, M. L., D. A. Siegel, K. O. Buesseler, R. H. R. Stanley, M. W. Lomas, and N. B. Nelson, 2015: Decoupling of net community and export production on submesoscales in the Sargasso Sea. *Global Biogeochemical Cycles*, **29**, 1266-1282, <http://dx.doi.org/10.1002/2014GB004913>

- Evans, K., J. N. Brown, A. Sen Gupta, S. J. Nicol, S. Hoyle, R. Matear, and H. Arrizabalaga, 2015: When 1+1 can be > 2: Uncertainties compound when simulating climate, fisheries and marine ecosystems. *Deep Sea Research Part II: Topical Studies in Oceanography*, **113**, 312-322, <http://dx.doi.org/10.1016/j.dsr2.2014.04.006>
- Farmer, G. T., 2015: Status of Climate Change Research. *Modern Climate Change Science*, Springer International Publishing, 43-99, http://dx.doi.org/10.1007/978-3-319-09222-5_2.
- Farrar, J. T., L. Rainville, A. J. Plueddemann, W. Kessler, C. Lee, B. A. Hodges, R. W. Schmitt, J. B. Edson, S. C. Riser, C. C. Eriksen, and D. M. Fratantoni, 2015: Salinity and temperature balances at the SPURS central mooring during fall and winter. *Oceanography*, **28**, 56-65, <http://dx.doi.org/10.5670/oceanog.2015.06>
- Faure, V. and Y. Kawai, 2015: Heat and salt budgets of the mixed layer around the Subarctic Front of the North Pacific Ocean. *Journal of Oceanography*, **71**, 527-539, <http://dx.doi.org/10.1007/s10872-015-0318-0>
- Feng, M., J. Benthuisen, N. Zhang, and D. Slawinski, 2015: Freshening anomalies in the Indonesian throughflow and impacts on the Leeuwin Current during 2010–2011. *Geophysical Research Letters*, **42**, 8555-8562, <http://dx.doi.org/10.1002/2015GL065848>
- Feng, W. and M. Zhong, 2015: Global sea level variations from altimetry, GRACE and Argo data over 2005–2014. *Geodesy and Geodynamics*, **6**, 274-279, <http://dx.doi.org/10.1016/j.geog.2015.07.001>
- Feng, Y., X. Chen, Q. Wang, and Y. Yuan, 2015: Mesoscale characteristics of Antarctic Intermediate Water in the South Pacific. *Acta Oceanologica Sinica*, **34**, 92-101, <http://dx.doi.org/10.1007/s13131-015-0752-2>
- Fenty, I., D. Menemenlis, and H. Zhang, 2015: Global coupled sea ice-ocean state estimation. *Climate Dynamics*, 1-26, <http://dx.doi.org/10.1007/s00382-015-2796-6>
- Ferrari, R., S. T. Merrifield, and J. R. Taylor, 2015: Shutdown of convection triggers increase of surface chlorophyll. *Journal of Marine Systems*, **147**, 116-122, <http://dx.doi.org/10.1016/j.jmarsys.2014.02.009>
- Foltz, G. R., K. Balaguru, and L. R. Leung, 2015: A reassessment of the integrated impact of tropical cyclones on surface chlorophyll in the western subtropical North Atlantic. *Geophysical Research Letters*, **42**, 1158-1164, <http://dx.doi.org/10.1002/2015GL063222>
- Foltz, G. R., C. Schmid, and R. Lumpkin, 2015: Transport of Surface Freshwater from the Equatorial to the Subtropical North Atlantic Ocean. *Journal of Physical Oceanography*, **45**, 1086-1102, <http://dx.doi.org/10.1175/JPO-D-14-0189.1>
- Forget, G., J. M. Campin, P. Heimbach, C. N. Hill, R. M. Ponte, and C. Wunsch, 2015: ECCO version 4: an integrated framework for non-linear inverse modeling and global ocean state estimation. *Geosci. Model Dev.*, **8**, 3071-3104, <http://dx.doi.org/10.5194/gmd-8-3071-2015>
- Forget, G., D. Ferreira, and X. Liang, 2015: On the observability of turbulent transport rates by Argo: supporting evidence from an inversion experiment. *Ocean Science*, **11**, 839-853, <http://dx.doi.org/10.5194/os-11-839-2015>
- Frenger, I., M. Münnich, N. Gruber, and R. Knutti, 2015: Southern Ocean eddy

- phenomenology. *Journal of Geophysical Research: Oceans*, **120**, 7413-7449, <http://dx.doi.org/10.1002/2015JC011047>
- Frigstad, H., S. A. Henson, S. E. Hartman, A. M. Omar, E. Jeansson, H. Cole, C. Pebody, and R. S. Lampitt, 2015: Links between surface productivity and deep ocean particle flux at the Porcupine Abyssal Plain sustained observatory. *Biogeosciences*, **12**, 5885-5897, <http://dx.doi.org/10.5194/bg-12-5885-2015>
- Fripiat, F., M. Elskens, T. W. Trull, S. Blain, A. J. Cavagna, C. Fernandez, D. Fonseca-Batista, F. Planchon, P. Raimbault, A. Roukaerts, and F. Dehairs, 2015: Significant mixed layer nitrification in a natural iron-fertilized bloom of the Southern Ocean. *Global Biogeochemical Cycles*, **29**, 1929-1943, <http://dx.doi.org/10.1002/2014GB005051>
- Fujii, Y., K. Ogawa, G. B. Brassington, K. Ando, T. Yasuda, and T. Kuragano, 2015: Evaluating the impacts of the tropical Pacific observing system on the ocean analysis fields in the global ocean data assimilation system for operational seasonal forecasts in JMA. *Journal of Operational Oceanography*, **8**, 25-39, <http://dx.doi.org/10.1080/1755876X.2015.1014640>
- Furue, R., Y. Jia, J. P. McCreary, N. Schneider, K. J. Richards, P. Müller, B. D. Cornuelle, N. M. Avellaneda, D. Stammer, C. Liu, and A. Köhl, 2015: Impacts of regional mixing on the temperature structure of the equatorial Pacific Ocean. Part 1: Vertically uniform vertical diffusion. *Ocean Modelling*, **91**, 91-111, <http://dx.doi.org/10.1016/j.ocemod.2014.10.002>
- Fujii, Y., et al. (2015), Evaluation of the Tropical Pacific Observing System from the ocean data assimilation perspective, *Q. J. R. Meteorol. Soc.*, **141**(692), 2481-2496, doi: <https://doi.org/10.1002/qj.2579>.
- Gaillard, F., D. Diverres, S. Jacquin, Y. Gouriou, J. Grelet, M. Le Menn, J. Tassel, and G. Reverdin, 2015: Sea surface temperature and salinity from French research vessels, 2001–2013. *Scientific Data*, **2**, 150054, <http://dx.doi.org/10.1038/sdata.2015.54>
- Galí, M., E. Devred, M. Lévassieur, S.-J. Royer, and M. Babin, 2015: A remote sensing algorithm for planktonic dimethylsulfoniopropionate (DMSP) and an analysis of global patterns. *Remote Sensing of Environment*, **171**, 171-184, <http://dx.doi.org/10.1016/j.rse.2015.10.012>
- Ganias, K., S. K. Lowerre-Barbieri, and W. Cooper, 2015: Understanding the determinate–indeterminate fecundity dichotomy in fish populations using a temperature dependent oocyte growth model. *Journal of Sea Research*, **96**, 1-10, <http://dx.doi.org/10.1016/j.seares.2014.10.018>
- García-Lafuente, J., C. Naranjo, R. Sánchez-Leal, S. Sammartino, M. J. Bellanco, J. C. Sánchez-Garrido, and J. Soto-Navarro, 2015: On the origin of the seasonal and interannual T–S variability of the inflow through the Strait of Gibraltar. *Deep Sea Research Part I: Oceanographic Research Papers*, **101**, 38-53, <http://dx.doi.org/10.1016/j.dsr.2015.03.005>
- Garzoli, S. L., S. Dong, R. Fine, C. S. Meinen, R. C. Perez, C. Schmid, E. van Sebille, and Q. Yao, 2015: The fate of the Deep Western Boundary Current in the South Atlantic. *Deep Sea Research Part I: Oceanographic Research Papers*, **103**, 125-136, <http://dx.doi.org/10.1016/j.dsr.2015.05.008>
- Gasparin, F., D. Roemmich, J. Gilson, and B. Cornuelle, 2015: Assessment of the

- Upper-Ocean Observing System in the Equatorial Pacific: The Role of Argo in Resolving Intraseasonal to Interannual Variability. *Journal of Atmospheric and Oceanic Technology*, **32**, 1668-1688, <http://dx.doi.org/10.1175/JTECH-D-14-00218.1>
- Goes, M., M. Baringer, and G. Goni, 2015: The impact of historical biases on the XBT-derived meridional overturning circulation estimates at 34°S. *Geophysical Research Letters*, **42**, 1848-1855, <http://dx.doi.org/10.1002/2014GL061802>
- Goes, M., G. Goni, and S. Dong, 2015: An optimal XBT-based monitoring system for the South Atlantic meridional overturning circulation at 34°S. *Journal of Geophysical Research: Oceans*, **120**, 161-181, <http://dx.doi.org/10.1002/2014JC010202>
- Gordon, A. L., C. F. Giulivi, J. Busecke, and F. M. Bingham, 2015: Differences among subtropical surface salinity patterns. *Oceanography*, **28**, 32-39, <http://dx.doi.org/10.5670/oceanog.2015.02>
- Grand, M. M., C. I. Measures, M. Hatta, W. T. Hiscock, C. S. Buck, and W. M. Landing, 2015: Dust deposition in the eastern Indian Ocean: The ocean perspective from Antarctica to the Bay of Bengal. *Global Biogeochemical Cycles*, **29**, 357-374, <http://dx.doi.org/10.1002/2014GB004898>
- Gray, A. R. and S. C. Riser, 2015: A method for multiscale optimal analysis with application to Argo data. *Journal of Geophysical Research: Oceans*, **120**, 4340-4356, <http://dx.doi.org/10.1002/2014JC010208>
- Grayek, S., E. Stanev, and J. Schulz-Stellenfleth, 2015: Assessment of the Black Sea observing system. A focus on 2005-2012 Argo campaigns. *Ocean Dynamics*, 1-20, <http://dx.doi.org/10.1007/s10236-015-0889-8>
- Grenier, M., A. Della Penna, and T. W. Trull, 2015: Autonomous profiling float observations of the high-biomass plume downstream of the Kerguelen Plateau in the Southern Ocean. *Biogeosciences*, **12**, 2707-2735, <http://dx.doi.org/10.5194/bg-12-2707-2015>
- Grist, J. P., S. A. Josey, Z. L. Jacobs, R. Marsh, B. Sinha, and E. Van Sebille, 2015: Extreme air-sea interaction over the North Atlantic subpolar gyre during the winter of 2013-2014 and its sub-surface legacy. *Climate Dynamics*, 1-19, <http://dx.doi.org/10.1007/s00382-015-2819-3>
- Große, F., C. Lindemann, J. Pätsch, and J. O. Backhaus, 2015: The influence of winter convection on primary production: A parameterisation using a hydrostatic three-dimensional biogeochemical model. *Journal of Marine Systems*, **147**, 138-152, <http://dx.doi.org/10.1016/j.jmarsys.2014.07.002>
- Ha, J., S. Shin, W. Chung, Y. Choi, B. Hong, and N. Koo, 2015: A proposal of seismic oceanography for temperature model inversion of the East Sea, Korea. *Geosystem Engineering*, **18**, 312-337, <http://dx.doi.org/10.1080/12269328.2015.1071208>
- Halpern, D., D. Menemenlis, and X. Wang, 2015: Impact of Data Assimilation on ECCO2 Equatorial Undercurrent and North Equatorial Countercurrent in the Pacific Ocean. *Journal of Atmospheric and Oceanic Technology*, **32**, 131-143, <http://dx.doi.org/10.1175/JTECH-D-14-00025.1>
- Hanan, D. S. M. M., 2015: Impacts of 2009 Typhoons on Seawater Properties and Top Layer Ocean's Structure in the Northwest Pacific Ocean. *Sains Malaysiana*, **44**, 167-173, http://www.ukm.my/jsm/english_journals/vol44num2_2015/vol44num2_2015p167-173.html

- Hartman, S. E., Z. P. Jiang, D. Turk, R. S. Lampitt, H. Frigstad, C. Ostle, and U. Schuster, 2015: Biogeochemical variations at the Porcupine Abyssal Plain sustained Observatory in the northeast Atlantic Ocean, from weekly to inter-annual timescales. *Biogeosciences*, **12**, 845-853, <http://dx.doi.org/10.5194/bg-12-845-2015>
- Hauser, T., E. Demirov, J. Zhu, and I. Yashayaev, 2015: North Atlantic atmospheric and ocean inter-annual variability over the past fifty years – Dominant patterns and decadal shifts. *Progress in Oceanography*, **132**, 197-219, <http://dx.doi.org/10.1016/j.pocean.2014.10.008>
- He, Z., M. Feng, D. Wang, and D. Slawinski, 2015: Contribution of the Karimata Strait transport to the Indonesian Throughflow as seen from a data assimilation model. *Continental Shelf Research*, **92**, 16-22, <http://dx.doi.org/10.1016/j.csr.2014.10.007>
- Hebert, D. A., R. A. Allard, E. J. Metzger, P. G. Posey, R. H. Preller, A. J. Wallcraft, M. W. Phelps, and O. M. Smedstad, 2015: Short-term sea ice forecasting: An assessment of ice concentration and ice drift forecasts using the U.S. Navy's Arctic Cap Nowcast/Forecast System. *Journal of Geophysical Research: Oceans*, **120**, 8327-8345, <http://dx.doi.org/10.1002/2015JC011283>
- Heuzé, C., F. Vivier, J. Le Sommer, J. M. Molines, and T. Penduff, 2015: Can we map the interannual variability of the whole upper Southern Ocean with the current database of hydrographic observations? *Journal of Geophysical Research: Oceans*, **120**, 7960-7978, <http://dx.doi.org/10.1002/2015JC011115>
- Hochet, A., T. Huck, and A. Colin de Verdière, 2015: Large-Scale Baroclinic Instability of the Mean Oceanic Circulation: A Local Approach. *Journal of Physical Oceanography*, **45**, 2738-2754, <http://dx.doi.org/10.1175/JPO-D-15-0084.1>
- Holdsworth, A. M. and P. G. Myers, 2015: The Influence of High-Frequency Atmospheric Forcing on the Circulation and Deep Convection of the Labrador Sea. *Journal of Climate*, **28**, 4980-4996, <http://dx.doi.org/10.1175/JCLI-D-14-00564.1>
- Hormann, V., L. R. Centurioni, and G. Reverdin, 2015: Evaluation of Drifter Salinities in the Subtropical North Atlantic. *Journal of Atmospheric and Oceanic Technology*, **32**, 185-192, <http://dx.doi.org/10.1175/JTECH-D-14-00179.1>
- Hosoda, S., M. Nonaka, Y. Sasai, and H. Sasaki, 2015: Early summertime interannual variability in surface and subsurface temperature in the North Pacific. *Journal of Oceanography*, **71**, 557-573, <http://dx.doi.org/10.1007/s10872-015-0307-3>
- Hosoda, S., M. Nonaka, T. Tomita, B. Taguchi, H. Tomita, and N. Iwasaka, 2015: Impact of downward heat penetration below the shallow seasonal thermocline on the sea surface temperature. *Journal of Oceanography*, **71**, 541-556, <http://dx.doi.org/10.1007/s10872-015-0275-7>
- Houpert, L., P. Testor, X. Durrieu de Madron, S. Somot, F. D'Ortenzio, C. Estournel, and H. Lavigne, 2015: Seasonal cycle of the mixed layer, the seasonal thermocline and the upper-ocean heat storage rate in the Mediterranean Sea derived from observations. *Progress in Oceanography*, **132**, 333-352, <http://dx.doi.org/10.1016/j.pocean.2014.11.004>
- Hsin, Y.-C., 2015: Multidecadal variations of the surface Kuroshio between 1950s and 2000s and its impacts on surrounding waters. *Journal of Geophysical Research: Oceans*, **120**, 1792-1808, <http://dx.doi.org/10.1002/2014JC010582>

- Hu, Z.-Z. and A. Kumar, 2015: Influence of availability of TAO data on NCEP ocean data assimilation systems along the equatorial Pacific. *Journal of Geophysical Research: Oceans*, **120**, 5534-5544, <http://dx.doi.org/10.1002/2015JC010913>
- Hu, Z.-Z., A. Kumar, and B. Huang, 2015: Spatial distribution and the interdecadal change of leading modes of heat budget of the mixed-layer in the tropical Pacific and the association with ENSO. *Climate Dynamics*, 1-16, <http://dx.doi.org/10.1007/s00382-015-2672-4>
- Hummels, R., P. Brandt, M. Dengler, J. Fischer, M. Araujo, D. Veleda, and J. V. Durgadoo, 2015: Interannual to decadal changes in the western boundary circulation in the Atlantic at 11°S. *Geophysical Research Letters*, **42**, 7615-7622, <http://dx.doi.org/10.1002/2015GL065254>
- Ito, K., T. Kuroda, K. Saito, and A. Wada, 2015: Forecasting a Large Number of Tropical Cyclone Intensities around Japan Using a High-Resolution Atmosphere–Ocean Coupled Model. *Weather and Forecasting*, **30**, 793-808, <http://dx.doi.org/10.1175/WAF-D-14-00034.1>
- Itoh, S., I. Yasuda, H. Saito, A. Tsuda, and K. Komatsu, 2015: Mixed layer depth and chlorophyll a: Profiling float observations in the Kuroshio–Oyashio Extension region. *Journal of Marine Systems*, **151**, 1-14, <http://dx.doi.org/10.1016/j.jmarsys.2015.06.004>
- Jacox, M. G., J. Fiechter, A. M. Moore, and C. A. Edwards, 2015: ENSO and the California Current coastal upwelling response. *Journal of Geophysical Research: Oceans*, **120**, 1691-1702, <http://dx.doi.org/10.1002/2014JC010650>
- Jaimes, B., L. K. Shay, and E. W. Uhlhorn, 2015: Enthalpy and Momentum Fluxes during Hurricane Earl Relative to Underlying Ocean Features. *Monthly Weather Review*, **143**, 111-131, <http://dx.doi.org/10.1175/MWR-D-13-00277.1>
- Jana, S., A. Gangopadhyay, and A. Chakraborty, 2015: Impact of seasonal river input on the Bay of Bengal simulation. *Continental Shelf Research*, **104**, 45-62, <http://dx.doi.org/10.1016/j.csr.2015.05.001>
- Johnson, G. C., J. M. Lyman, J. Antonov, N. L. Bindoff, T. Boyer, C. M. Domingues, S. A. Good, M. Ishii, and J. K. Willis, 2015: Global Oceans: Ocean heat content, In State of the Climate in 2014. *Bulletin of the American Meteorological Society*, **96**, S64-S66, <http://dx.doi.org/10.1175/2015BAMSStateoftheClimate.1>
- Johnson, G. C., J. M. Lyman, G. S. E. Lagerloef, and H.-Y. Kao, 2015: Global Oceans: Sea surface salinity, In State of the Climate in 2014. *Bulletin of the American Meteorological Society*, **96**, S71-S74, <http://dx.doi.org/doi:10.1175/2015BAMSStateoftheClimate.1>
- Johnson, G. C., J. M. Lyman, and S. G. Purkey, 2015: Informing Deep Argo Array Design Using Argo and Full-Depth Hydrographic Section Data. *Journal of Atmospheric and Oceanic Technology*, **32**, 2187-2198, <http://dx.doi.org/10.1175/JTECH-D-15-0139.1>
- Johnson, K. S., J. N. Plant, S. C. Riser, and D. Gilbert, 2015: Air Oxygen Calibration of Oxygen Optodes on a Profiling Float Array. *Journal of Atmospheric and Oceanic Technology*, **32**, 2160-2172, <http://dx.doi.org/10.1175/JTECH-D-15-0101.1>
- Jonsson, B. F., S. Doney, J. Dunne, and M. L. Bender, 2015: Evaluating Southern Ocean biological production in two ocean biogeochemical models on daily to seasonal

- timescales using satellite chlorophyll and O₂ / Ar observations. *Biogeosciences*, **12**, 681-695, <http://dx.doi.org/10.5194/bg-12-681-2015>
- Josey, S. A., J. Grist, D. Kieke, I. Yashayaev, and L. Yu, 2015: Extraordinary Ocean Cooling and New Dense Water Formation in the North Atlantic, In State of the Climate in 2014. *Bulletin of the American Meteorological Society*, **96**, S67-S68, <http://dx.doi.org/doi:10.1175/2015BAMSStateoftheClimate.1>
- Juza, M., B. Mourre, J.-M. Lellouche, M. Tonani, and J. Tintoré, 2015: From basin to sub-basin scale assessment and intercomparison of numerical simulations in the Western Mediterranean Sea. *Journal of Marine Systems*, **149**, 36-49, <http://dx.doi.org/10.1016/j.jmarsys.2015.04.010>
- Kaneko, H., S. Itoh, S. Kouketsu, T. Okunishi, S. Hosoda, and T. Suga, 2015: Evolution and modulation of a poleward-propagating anticyclonic eddy along the Japan and Kuril-Kamchatka trenches. *Journal of Geophysical Research: Oceans*, **120**, 4418-4440, <http://dx.doi.org/10.1002/2014JC010693>
- Kao, H.-Y. and G. S. E. Lagerloef, 2015: Salinity fronts in the tropical Pacific Ocean. *Journal of Geophysical Research: Oceans*, **120**, 1096-1106, <http://dx.doi.org/10.1002/2014JC010114>
- Karspeck, A. R., D. Stammer, A. Köhl, G. Danabasoglu, M. Balmaseda, D. M. Smith, Y. Fujii, S. Zhang, B. Giese, H. Tsujino, and A. Rosati, 2015: Comparison of the Atlantic meridional overturning circulation between 1960 and 2007 in six ocean reanalysis products. *Climate Dynamics*, 1-26, <http://dx.doi.org/10.1007/s00382-015-2787-7>
- Karstensen, J., B. Fiedler, F. Schütte, P. Brandt, A. Körtzinger, G. Fischer, R. Zantopp, J. Hahn, M. Visbeck, and D. Wallace, 2015: Open ocean dead zones in the tropical North Atlantic Ocean. *Biogeosciences*, **12**, 2597-2605, <http://dx.doi.org/10.5194/bg-12-2597-2015>
- Kassis, D., G. Korres, G. Petihakis, and L. Perivoliotis, 2015: Hydrodynamic variability of the Cretan Sea derived from Argo float profiles and multi-parametric buoy measurements during 2010–2012. *Ocean Dynamics*, 1-17, <http://dx.doi.org/10.1007/s10236-015-0892-0>
- Katsura, S., E. Oka, and K. Sato, 2015: Formation Mechanism of Barrier Layer in the Subtropical Pacific. *Journal of Physical Oceanography*, **45**, 2790-2805, <http://dx.doi.org/10.1175/JPO-D-15-0028.1>
- Keating, S. R. and K. S. Smith, 2015: Upper ocean flow statistics estimated from superresolved sea-surface temperature images. *Journal of Geophysical Research: Oceans*, **120**, 1197-1214, <http://dx.doi.org/10.1002/2014JC010357>
- Kieke, D. and I. Yashayaev, 2015: Studies of Labrador Sea Water formation and variability in the subpolar North Atlantic in the light of international partnership and collaboration. *Progress in Oceanography*, **132**, 220-232, <http://dx.doi.org/10.1016/j.pocean.2014.12.010>
- Kilbourne, B. F. and J. B. Girton, 2015: Quantifying High-Frequency Wind Energy Flux into Near-Inertial Motions in the Southeast Pacific. *Journal of Physical Oceanography*, **45**, 369-386, <http://dx.doi.org/10.1175/JPO-D-14-0076.1>
- Kilbourne, B. F. and J. B. Girton, 2015: Surface boundary layer evolution and near-inertial wind power input. *Journal of Geophysical Research: Oceans*, **120**, 7506-7520,

- <http://dx.doi.org/10.1002/2015JC011213>
- Kim, H., J. Kim, and D.-G. Paeng, 2015: Analysis of Surface Sound Channel by Low Salinity Water and Its Mid-frequency Acoustic Characteristics in the East China Sea and the Gulf of Guinea. *The Journal of the Acoustical Society of Korea*, **34**, 1-11, <http://dx.doi.org/10.7776/ASK.2015.34.1.001>
- Kim, H.-J. and J.-B. Ahn, 2015: Improvement in Prediction of the Arctic Oscillation with a Realistic Ocean Initial Condition in a CGCM. *Journal of Climate*, **28**, 8951-8967, <http://dx.doi.org/10.1175/JCLI-D-14-00457.1>
- Kim, J. H., H.-M. Eom, J.-K. Choi, S.-M. Lee, Y.-H. Kim, and P.-H. Chang, 2015: Impacts of OSTIA Sea Surface Temperature in Regional Ocean Data Assimilation System. *The Sea*, **20**, 1-15, <http://dx.doi.org/10.7850/jkso.2015.20.1.1>
- Kim, Y. H., C. Hwang, and B.-J. Choi, 2015: An assessment of ocean climate reanalysis by the data assimilation system of KIOST from 1947 to 2012. *Ocean Modelling*, **91**, 1-22, <http://dx.doi.org/10.1016/j.ocemod.2015.02.006>
- Kimizuka, M., F. Kobashi, A. Kubokawa, and N. Iwasaka, 2015: Vertical and horizontal structures of the North Pacific subtropical gyre axis. *Journal of Oceanography*, **71**, 409-425, <http://dx.doi.org/10.1007/s10872-015-0301-9>
- Kjellsson, J., P. R. Holland, G. J. Marshall, P. Mathiot, Y. Aksenov, A. C. Coward, S. Bacon, A. P. Megann, and J. Ridley, 2015: Model sensitivity of the Weddell and Ross seas, Antarctica, to vertical mixing and freshwater forcing. *Ocean Modelling*, **94**, 141-152, <http://dx.doi.org/10.1016/j.ocemod.2015.08.003>
- Kodama, T., T. Setou, M. Masujima, M. Okazaki, and T. Ichikawa, 2015: Intrusions of excess nitrate in the Kuroshio subsurface layer. *Continental Shelf Research*, **110**, 191-200, <http://dx.doi.org/10.1016/j.csr.2015.10.012>
- Köhl, A., 2015: Evaluation of the GECCO2 ocean synthesis: transports of volume, heat and freshwater in the Atlantic. *Quarterly Journal of the Royal Meteorological Society*, **141**, 166-181, <http://dx.doi.org/10.1002/qj.2347>
- Köhler, J., M. Sena Martins, N. Serra, and D. Stammer, 2015: Quality assessment of spaceborne sea surface salinity observations over the northern North Atlantic. *Journal of Geophysical Research: Oceans*, **120**, 94-112, <http://dx.doi.org/10.1002/2014JC010067>
- Kok, P. H., M. F. Akhir, and F. T. Tangang, 2015: Thermal frontal zone along the east coast of Peninsular Malaysia. *Continental Shelf Research*, **110**, 1-15, <http://dx.doi.org/10.1016/j.csr.2015.09.010>
- Kolodziejczyk, N., O. Hernandez, J. Boutin, and G. Reverdin, 2015: SMOS salinity in the subtropical North Atlantic salinity maximum: 2. Two-dimensional horizontal thermohaline variability. *Journal of Geophysical Research: Oceans*, **120**, 972-987, <http://dx.doi.org/10.1002/2014JC010103>
- Kolodziejczyk, N., G. Reverdin, J. Boutin, and O. Hernandez, 2015: Observation of the surface horizontal thermohaline variability at mesoscale to submesoscale in the north-eastern subtropical Atlantic Ocean. *Journal of Geophysical Research: Oceans*, **120**, 2588-2600, <http://dx.doi.org/10.1002/2014JC010455>
- Kolodziejczyk, N., G. Reverdin, and A. Lazar, 2015: Interannual Variability of the Mixed Layer Winter Convection and Spice Injection in the Eastern Subtropical North Atlantic.

- Journal of Physical Oceanography*, **45**, 504-525,
<http://dx.doi.org/10.1175/JPO-D-14-0042.1>
- Koslow, J. A. and J. Couture, 2015: Pacific Ocean observation programs: Gaps in ecological time series. *Marine Policy*, **51**, 408-414,
<http://dx.doi.org/10.1016/j.marpol.2014.09.003>
- Kouketsu, S., H. Kaneko, T. Okunishi, K. Sasaoka, S. Itoh, R. Inoue, and H. Ueno, 2015: Mesoscale eddy effects on temporal variability of surface chlorophyll a in the Kuroshio Extension. *Journal of Oceanography*, 1-13,
<http://dx.doi.org/10.1007/s10872-015-0286-4>
- Kovačević, V., L. Ursella, M. Gacic, G. notarstefano, M. Menna, M. Bensi, and P. M. Poulain, 2015: On the Ionian thermohaline properties and circulation in 2010-2013 as measured by Argo floats. *Acta Adriatica*, **56**, 97-114,
http://jadran.izor.hr/acta/eng/redirect.htm?folder=56_1_pdf&file=56_1_5
- Kumar, A., M. Chen, Y. Xue, and D. Behringer, 2015: An Analysis of the Temporal Evolution of ENSO Prediction Skill in the Context of the Equatorial Pacific Ocean Observing System. *Monthly Weather Review*, **143**, 3204-3213,
<http://dx.doi.org/10.1175/MWR-D-15-0035.1>
- Kunze, E., J. M. Klymak, R. C. Lien, R. Ferrari, C. M. Lee, M. A. Sundermeyer, and L. Goodman, 2015: Submesoscale Water-Mass Spectra in the Sargasso Sea. *Journal of Physical Oceanography*, **45**, 1325-1338, <http://dx.doi.org/10.1175/JPO-D-14-0108.1>
- Kuragano, T., Y. Fujii, and M. Kamachi, 2015: Evaluation of the Argo network using statistical space-time scales derived from satellite altimetry data. *Journal of Geophysical Research: Oceans*, **120**, 4534-4551, <http://dx.doi.org/10.1002/2015JC010730>
- Kwon, Y.-O., J.-J. Park, S. F. Gary, and M. S. Lozier, 2015: Year-to-Year Reoutcropping of Eighteen Degree Water in an Eddy-Resolving Ocean Simulation. *Journal of Physical Oceanography*, **45**, 1189-1204, <http://dx.doi.org/10.1175/JPO-D-14-0122.1>
- Labrousse, S., J. Vacquié-Garcia, K. Heerah, C. Guinet, J.-B. Sallée, M. Authier, B. Picard, F. Roquet, F. Bailleul, M. Hindell, and J.-B. Charrassin, 2015: Winter use of sea ice and ocean water mass habitat by southern elephant seals: The length and breadth of the mystery. *Progress in Oceanography*, **137, Part A**, 52-68,
<http://dx.doi.org/10.1016/j.pocean.2015.05.023>
- Lacour, L., H. Claustre, L. Prieur, and F. D'Ortenzio, 2015: Phytoplankton biomass cycles in the North Atlantic subpolar gyre: A similar mechanism for two different blooms in the Labrador Sea. *Geophysical Research Letters*, **42**, 5403-5410,
<http://dx.doi.org/10.1002/2015GL064540>
- Lavigne, H., F. D'Ortenzio, M. Ribera D'Alcalà, H. Claustre, R. Sauzède, and M. Gacic, 2015: On the vertical distribution of the chlorophyll a concentration in the Mediterranean Sea: a basin-scale and seasonal approach. *Biogeosciences*, **12**, 5021-5039,
<http://dx.doi.org/10.5194/bg-12-5021-2015>
- Le Traon, P. Y., D. Antoine, A. Bentamy, H. Bonekamp, L. A. Breivik, B. Chapron, G. Corlett, G. Dibarbouré, P. DiGiacomo, C. Donlon, Y. Faugère, J. Font, F. Girard-Ardhuin, F. Gohin, J. A. Johannessen, M. Kamachi, G. Lagerloef, J. Lambin, G. Larnicol, P. Le Borgne, E. Leuliette, E. Lindstrom, M. J. Martin, E. Maturi, L. Miller, L. Mingsen, R. Morrow, N. Reul, M. H. Rio, H. Roquet, R. Santoleri, and J. Wilkin, 2015: Use of satellite

- observations for operational oceanography: recent achievements and future prospects. *Journal of Operational Oceanography*, **8**, s12-s27, <http://dx.doi.org/10.1080/1755876X.2015.1022050>
- Lea, D. J., I. Mirouze, M. J. Martin, R. R. King, A. Hines, D. Walters, and M. Thurlow, 2015: Assessing a New Coupled Data Assimilation System Based on the Met Office Coupled Atmosphere–Land–Ocean–Sea Ice Model. *Monthly Weather Review*, **143**, 4678-4694, <http://dx.doi.org/10.1175/MWR-D-15-0174.1>
- Lee, E., Y. Noh, B. Qiu, and S.-W. Yeh, 2015: Seasonal variation of the upper ocean responding to surface heating in the North Pacific. *Journal of Geophysical Research: Oceans*, **120**, 5631-5647, <http://dx.doi.org/10.1002/2015JC010800>
- Legler, D. M., H. J. Freeland, R. Lumpkin, G. Ball, M. J. McPhaden, S. North, R. Crowley, G. J. Goni, U. Send, and M. A. Merrifield, 2015: The current status of the real-time in situ Global Ocean Observing System for operational oceanography. *Journal of Operational Oceanography*, **8**, s189-s200, <http://dx.doi.org/10.1080/1755876X.2015.1049883>
- Leuliette, E. W., 2015: The Balancing of the Sea-Level Budget. *Current Climate Change Reports*, 1-7, <http://dx.doi.org/10.1007/s40641-015-0012-8>
- L'Hégaret, P., R. Duarte, X. Carton, C. Vic, D. Ciani, R. Baraille, and S. Corréard, 2015: Mesoscale variability in the Arabian Sea from HYCOM model results and observations: impact on the Persian Gulf Water path. *Ocean Science*, **11**, 667-693, <http://dx.doi.org/10.5194/os-11-667-2015>
- Li, F., Y.-H. Jo, X.-H. Yan, and W. Timothy Liu, 2015: Varying temperature and heat content signatures in the central Labrador Sea at different layers and timescales. *Deep Sea Research Part I: Oceanographic Research Papers*, **103**, 114-124, <http://dx.doi.org/10.1016/j.dsr.2015.04.012>
- Li, J., Z. Jing, S. Jiang, D. Wang, and T. Yan, 2015: An observed cyclonic eddy associated with boundary current in the northwestern South China Sea. *Aquatic Ecosystem Health & Management*, **18**, 454-461, <http://dx.doi.org/10.1080/14634988.2015.1100959>
- Li, Q. P., Y. Wang, Y. Dong, and J. Gan, 2015: Modeling long-term change of planktonic ecosystems in the northern South China Sea and the upstream Kuroshio Current. *Journal of Geophysical Research: Oceans*, **120**, 3913-3936, <http://dx.doi.org/10.1002/2014JC010609>
- Li, Y., W. Han, and T. Lee, 2015: Intraseasonal sea surface salinity variability in the equatorial Indo-Pacific Ocean induced by Madden-Julian oscillations. *Journal of Geophysical Research: Oceans*, **120**, 2233-2258, <http://dx.doi.org/10.1002/2014JC010647>
- Li, Y., R. He, K. Chen, and D. J. McGillicuddy, 2015: Variational data assimilative modeling of the Gulf of Maine in spring and summer 2010. *Journal of Geophysical Research: Oceans*, **120**, 3522-3541, <http://dx.doi.org/10.1002/2014JC010492>
- Li, Y. and F. Wang, 2015: Thermocline spiciness variations in the tropical Indian Ocean observed during 2003–2014. *Deep Sea Research Part I: Oceanographic Research Papers*, **97**, 52-66, <http://dx.doi.org/10.1016/j.dsr.2014.12.004>
- Li, Z., J. C. McWilliams, K. Ide, and J. D. Farrara, 2015: Coastal ocean data assimilation using a multi-scale three-dimensional variational scheme. *Ocean Dynamics*, **65**, 1001-1015, <http://dx.doi.org/10.1007/s10236-015-0850-x>

- Liang, X., C. Wunsch, P. Heimbach, and G. Forget, 2015: Vertical Redistribution of Oceanic Heat Content. *Journal of Climate*, **28**, 3821-3833, <http://dx.doi.org/10.1175/JCLI-D-14-00550.1>
- Lindstrom, E., F. Bryan, and R. Schmitt, 2015: Salinity Processes in the Upper-ocean Regional Study - The North Atlantic Experiment. *Oceanography*, **28**, 14-19, <http://dx.doi.org/10.5670/oceanog.2015.01>
- Liu, Q.-Y., M. Feng, D. Wang, and S. Wijffels, 2015: Interannual variability of the Indonesian Throughflow transport: A revisit based on 30 year expendable bathythermograph data. *Journal of Geophysical Research: Oceans*, **120**, 8270-8282, <http://dx.doi.org/10.1002/2015JC011351>
- Liu, X. and J. Wei, 2015: Understanding surface and subsurface temperature changes induced by tropical cyclones in the Kuroshio. *Ocean Dynamics*, **65**, 1017-1027, <http://dx.doi.org/10.1007/s10236-015-0851-9>
- Liu, Y. and P. J. Minnett, 2015: Evidence linking satellite-derived sea-surface temperature signals to changes in the Atlantic meridional overturning circulation. *Remote Sensing of Environment*, **169**, 150-162, <http://dx.doi.org/10.1016/j.rse.2015.08.014>
- Liu, Z., Y. Hou, and Q. Xie, 2015: Eddy formation and surface flow field in the Luzon Strait area during the summer of 2009. *Chinese Journal of Oceanology and Limnology*, **33**, 1320-1333, <http://dx.doi.org/10.1007/s00343-015-4397-y>
- Llovel, W. and T. Lee, 2015: Importance and origin of halosteric contribution to sea level change in the southeast Indian Ocean during 2005–2013. *Geophysical Research Letters*, **42**, 1148-1157, <http://dx.doi.org/10.1002/2014GL062611>
- Loder, J. W., A. van der Baaren, and I. Yashayaev, 2015: Climate Comparisons and Change Projections for the Northwest Atlantic from Six CMIP5 Models. *Atmosphere-Ocean*, **53**, <http://dx.doi.org/10.1080/07055900.2015.1087836>
- Lyman, J. M. and G. C. Johnson, 2015: Anomalous eddy heat and freshwater transport in the Gulf of Alaska. *Journal of Geophysical Research: Oceans*, **120**, 1397-1408, <http://dx.doi.org/10.1002/2014JC010252>
- Ma, X. and C. Sun, 2015: Water mass characteristics in the western North Pacific based on a streamfunction projection. *Science China Earth Sciences*, **58**, 2067-2077, <http://dx.doi.org/10.1007/s11430-015-5100-z>
- Ma, X. and C. Sun, 2015: Equatorward shift of annual Rossby waves in the Equatorial Pacific Ocean. *Chinese Journal of Oceanology and Limnology*, 1-7, <http://dx.doi.org/10.1007/s00343-015-4405-2>
- MacLachlan, C., A. Arribas, K. A. Peterson, A. Maidens, D. Fereday, A. A. Scaife, M. Gordon, M. Vellinga, A. Williams, R. E. Comer, J. Camp, P. Xavier, and G. Madec, 2015: Global Seasonal forecast system version 5 (GloSea5): a high-resolution seasonal forecast system. *Quarterly Journal of the Royal Meteorological Society*, **141**, 1072-1084, <http://dx.doi.org/10.1002/qj.2396>
- Martin, M. J., M. Balmaseda, L. Bertino, P. Brasseur, G. Brassington, J. Cummings, Y. Fujii, D. J. Lea, J. M. Lellouche, K. Mogensen, P. R. Oke, G. C. Smith, C. E. Testut, G. A. Waagbø, J. Waters, and A. T. Weaver, 2015: Status and future of data assimilation in operational oceanography. *Journal of Operational Oceanography*, **8**, s28-s48, <http://dx.doi.org/10.1080/1755876X.2015.1022055>

- Martin, M. V. and C. Shaji, 2015: On the eastward shift of winter surface chlorophyll-a bloom peak in the Bay of Bengal. *Journal of Geophysical Research: Oceans*, **120**, 2193-2211, <http://dx.doi.org/10.1002/2014JC010162>
- Masich, J., T. K. Chereskin, and M. R. Mazloff, 2015: Topographic form stress in the Southern Ocean State Estimate. *Journal of Geophysical Research: Oceans*, **120**, 7919-7933, <http://dx.doi.org/10.1002/2015JC011143>
- Masina, S., A. Storto, N. Ferry, M. Valdivieso, K. Haines, M. Balmaseda, H. Zuo, M. Drevillon, and L. Parent, 2015: An ensemble of eddy-permitting global ocean reanalyses from the MyOcean project. *Climate Dynamics*, 1-29, <http://dx.doi.org/10.1007/s00382-015-2728-5>
- Masuda, S., J. Philip Matthews, Y. Ishikawa, T. Mochizuki, Y. Tanaka, and T. Awaji, 2015: A new Approach to El Niño Prediction beyond the Spring Season. *Scientific Reports*, **5**, 16782, <http://dx.doi.org/10.1038/srep16782>
- McCaffrey, K., B. Fox-Kemper, and G. Forget, 2015: Estimates of Ocean Macroturbulence: Structure Function and Spectral Slope from Argo Profiling Floats. *Journal of Physical Oceanography*, **45**, 1773-1793, <http://dx.doi.org/10.1175/JPO-D-14-0023.1>
- McCarthy, G. D., D. A. Smeed, W. E. Johns, E. Frajka-Williams, B. I. Moat, D. Rayner, M. O. Baringer, C. S. Meinen, J. Collins, and H. L. Bryden, 2015: Measuring the Atlantic Meridional Overturning Circulation at 26°N. *Progress in Oceanography*, **130**, 91-111, <http://dx.doi.org/10.1016/j.pocean.2014.10.006>
- McDonagh, E. L., B. A. King, H. L. Bryden, P. Courtois, Z. Szuts, M. Baringer, S. A. Cunningham, C. Atkinson, and G. McCarthy, 2015: Continuous Estimate of Atlantic Oceanic Freshwater Flux at 26.5°N. *Journal of Climate*, **28**, 8888-8906, <http://dx.doi.org/10.1175/JCLI-D-14-00519.1>
- McKiver, W. J., M. Vichi, T. Lovato, A. Storto, and S. Masina, 2015: Impact of increased grid resolution on global marine biogeochemistry. *Journal of Marine Systems*, **147**, 153-168, <http://dx.doi.org/10.1016/j.jmarsys.2014.10.003>
- McPhaden, M. J., Y. Wang, and M. Ravichandran, 2015: Volume transports of the Wyrтки jets and their relationship to the Indian Ocean Dipole. *Journal of Geophysical Research: Oceans*, **120**, 5302-5317, <http://dx.doi.org/10.1002/2015JC010901>
- Melbourne-Thomas, J., S. Wotherspoon, S. Corney, E. Molina-Balari, O. Marini, and A. Constable, 2015: Optimal control and system limitation in a Southern Ocean ecosystem model. *Deep Sea Research Part II: Topical Studies in Oceanography*, **114**, 64-73, <http://dx.doi.org/10.1016/j.dsr2.2013.02.017>
- Melzer, B. A. and B. Subrahmanyam, 2015: Investigating decadal changes in sea surface salinity in oceanic subtropical gyres. *Geophysical Research Letters*, **42**, 7631-7638, <http://dx.doi.org/10.1002/2015GL065636>
- Men, W., J. He, F. Wang, Y. Wen, Y. Li, J. Huang, and X. Yu, 2015: Radioactive status of seawater in the northwest Pacific more than one year after the Fukushima nuclear accident. *Sci. Rep.*, **5**, <http://dx.doi.org/10.1038/srep07757>
- Mensah, V., S. Jan, M.-H. Chang, and Y.-J. Yang, 2015: Intraseasonal to seasonal variability of the intermediate waters along the Kuroshio path east of Taiwan. *Journal of Geophysical Research: Oceans*, **120**, 5473-5489, <http://dx.doi.org/10.1002/2015JC010768>

- Mercier, H., P. Lherminier, A. Sarafanov, F. Gaillard, N. Daniault, D. Desbruyères, A. Falina, B. Ferron, C. Gourcuff, T. Huck, and V. Thierry, 2015: Variability of the meridional overturning circulation at the Greenland–Portugal OVIDE section from 1993 to 2010. *Progress in Oceanography*, **132**, 250-261, <http://dx.doi.org/10.1016/j.pocean.2013.11.001>
- Meredith, M. P., M. R. Mazloff, J. B. Sallee, L. Newman, A. Wahlin, M. J. M. Williams, A. C. N. Garabato, S. Swart, P. Monteiro, M. M. Mata, and S. Schmidtko, 2015: Antarctica: The Southern Ocean Observing System, In State of the Climate in 2014. *Bulletin of the American Meteorological Society*, **96**, S159, <http://dx.doi.org/10.1175/2015BAMSStateoftheClimate.1>
- Meredith, M. P., M. R. Mazloff, J. B. Sallee, L. Newman, A. Wahlin, M. J. M. Williams, A. C. Naveira Garabato, S. Swart, P. Monteiro, M. M. Mata, and S. Schmidtko, 2015: Antarctica: Southern Ocean, In State of the Climate in 2014. *Bulletin of the American Meteorological Society*, **96**, S157-S160, <http://dx.doi.org/10.1175/2015BAMSStateoftheClimate.1>
- Meredith, M. P., A. S. Meijers, A. C. Naveira Garabato, P. J. Brown, H. J. Venables, E. P. Abrahamsen, L. Jullion, and M.-J. Messias, 2015: Circulation, retention, and mixing of waters within the Weddell-Scotia Confluence, Southern Ocean: The role of stratified Taylor columns. *Journal of Geophysical Research: Oceans*, **120**, 547-562, <http://dx.doi.org/10.1002/2014JC010462>
- Merlivat, L., J. Boutin, and D. Antoine, 2015: Roles of biological and physical processes in driving seasonal air–sea CO₂ flux in the Southern Ocean: New insights from CARIOCA pCO₂. *Journal of Marine Systems*, **147**, 9-20, <http://dx.doi.org/10.1016/j.jmarsys.2014.04.015>
- Merrifield, M., P. Thompson, E. Leuliette, G. T. Mitchum, D. P. Chambers, S. Jevrejeva, R. S. Nerem, M. Menedez, W. Sweet, B. D. Hamlington, and J. J. Marra, 2015: Global Oceans: Sea level variability and change, In State of the Climate in 2014. *Bulletin of the American Meteorological Society*, **96**, S82-S85, <http://www.dx.doi.org/10.1175/2015BAMSStateoftheClimate.1>
- Mignac, D., C. A. S. Tanajura, A. N. Santana, L. N. Lima, and J. Xie, 2015: Argo data assimilation into HYCOM with an EnOI method in the Atlantic Ocean. *Ocean Science*, **11**, 195-213, <http://dx.doi.org/10.5194/os-11-195-2015>
- Miller, A. J., H. Song, and A. C. Subramanian, 2015: The physical oceanographic environment during the CCE-LTER Years: Changes in climate and concepts. *Deep Sea Research Part II: Topical Studies in Oceanography*, **112**, 6-17, <http://dx.doi.org/10.1016/j.dsr2.2014.01.003>
- Momin, I. M., A. K. Mitra, S. Prakash, D. K. Mahapatra, A. Gera, and E. N. Rajagopal, 2015: Variability of sea surface salinity in the tropical Indian Ocean as inferred from Aquarius and in situ data sets. *International Journal of Remote Sensing*, **36**, 1907-1920, <http://dx.doi.org/10.1080/01431161.2015.1030045>
- Morrison, A. K., M. H. England, and A. M. Hogg, 2015: Response of Southern Ocean Convection and Abyssal Overturning to Surface Buoyancy Perturbations. *Journal of Climate*, **28**, 4263-4278, <http://dx.doi.org/10.1175/JCLI-D-14-00110.1>
- Muni Krishna, K. and G. Song, 2015: Physical and biological changes in the south Bay of

- Bengal due to the Baaz cyclone. *Advances in Space Research*, **56**, 1658-1666, <http://dx.doi.org/10.1016/j.asr.2015.07.025>
- Muscarella, P., M. J. Carrier, H. Ngodock, S. Smith, B. L. Lipphardt, A. D. Kirwan, and H. S. Huntley, 2015: Do Assimilated Drifter Velocities Improve Lagrangian Predictability in an Operational Ocean Model? *Monthly Weather Review*, **143**, 1822-1832, <http://dx.doi.org/10.1175/MWR-D-14-00164.1>
- Nagura, M., T. Terao, and M. Hashizume, 2015: The Role of Temperature Inversions in the Generation of Seasonal and Interannual SST Variability in the Far Northern Bay of Bengal. *Journal of Climate*, **28**, 3671-3693, <http://dx.doi.org/10.1175/JCLI-D-14-00553.1>
- Nakanowatari, T., H. Mitsudera, T. Motoi, I. Ishikawa, K. I. Ohshima, and M. Wakatsuchi, 2015: Multidecadal-Scale Freshening at the Salinity Minimum in the Western Part of North Pacific: Importance of Wind-Driven Cross-Gyre Transport of Subarctic Water to the Subtropical Gyre. *Journal of Physical Oceanography*, **45**, 988-1008, <http://dx.doi.org/10.1175/JPO-D-13-0274.1>
- Nakanowatari, T., T. Nakamura, K. Uchimoto, H. Uehara, H. Mitsudera, K. I. Ohshima, H. Hasumi, and M. Wakatsuchi, 2015: Causes of the Multidecadal-Scale Warming of the Intermediate Water in the Okhotsk Sea and Western Subarctic North Pacific. *Journal of Climate*, **28**, 714-736, <http://dx.doi.org/10.1175/JCLI-D-14-00172.1>
- Nan, F., F. Yu, H. Xue, R. Wang, and G. Si, 2015: Ocean salinity changes in the northwest Pacific subtropical gyre: The quasi-decadal oscillation and the freshening trend. *Journal of Geophysical Research: Oceans*, **120**, 2179-2192, <http://dx.doi.org/10.1002/2014JC010536>
- Newinger, C. and R. Toumi, 2015: Potential impact of the colored Amazon and Orinoco plume on tropical cyclone intensity. *Journal of Geophysical Research: Oceans*, **120**, 1296-1317, <http://dx.doi.org/10.1002/2014JC010533>
- Nieves, V., J. K. Willis, and W. C. Patzert, 2015: Recent hiatus caused by decadal shift in Indo-Pacific heating. *Science*, <http://dx.doi.org/10.1126/science.aaa4521>
- Nishikawa, S., Y. Ishikawa, S. Masuda, Y. Hiyoshi, Y. Sasaki, and H. Igarashi, 2015: Argo data assimilation and its effect on climate state estimation and forecasting in the western North Pacific using a coupled model. *Journal of Geophysical Research: Oceans*, **120**, 2636-2654, <http://dx.doi.org/10.1002/2014JC010095>
- Ohde, T., B. Fiedler, and A. Körtzinger, 2015: Spatio-temporal distribution and transport of particulate matter in the eastern tropical North Atlantic observed by Argo floats. *Deep Sea Research Part I: Oceanographic Research Papers*, **102**, 26-42, <http://dx.doi.org/10.1016/j.dsr.2015.04.007>
- Oka, E., B. Qiu, Y. Takatani, K. Enyo, D. Sasano, N. Kosugi, M. Ishii, T. Nakano, and T. Suga, 2015: Decadal variability of Subtropical Mode Water subduction and its impact on biogeochemistry. *Journal of Oceanography*, **71**, 389-400, <http://dx.doi.org/10.1007/s10872-015-0300-x>
- Oke, P. R., G. Larnicol, Y. Fujii, G. C. Smith, D. J. Lea, S. Guinehut, E. Remy, M. A. Balmaseda, T. Rykova, D. Surcel-Colan, M. J. Martin, A. A. Sellar, S. Mulet, and V. Turpin, 2015: Assessing the impact of observations on ocean forecasts and reanalyses: Part 1, Global studies. *Journal of Operational Oceanography*, **8**, s49-s62,

- <http://dx.doi.org/10.1080/1755876X.2015.1022067>
- Oke, P. R., G. Larnicol, E. M. Jones, V. Kourafalou, A. K. Sperreik, F. Carse, C. A. S. Tanajura, B. Moure, M. Tonani, G. B. Brassington, M. Le Henaff, G. R. Halliwell, R. Atlas, A. M. Moore, C. A. Edwards, M. J. Martin, A. A. Sellar, A. Alvarez, P. De Mey, and M. Iskandarani, 2015: Assessing the impact of observations on ocean forecasts and reanalyses: Part 2, Regional applications. *Journal of Operational Oceanography*, **8**, s63-s79, <http://dx.doi.org/10.1080/1755876X.2015.1022080>
- Ono, S., H. Matsuyama, K. i. Fukui, and S. Hosoda, 2015: Error detection of oceanic observation data using sequential labeling. *2015 IEEE International Conference on Data Science and Advanced Analytics (DSAA)*, 1-8, <https://doi.org/10.1109/DSAA.2015.7344896>
- Ono, S., H. Matsuyama, K.-i. Fukui, and S. Hosoda, 2015: A Preliminary Study on Quality Control of Oceanic Observation Data by Machine Learning Methods. *Proceedings of the 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems, Volume 1*, H. Handa, H. Ishibuchi, Y.-S. Ong, and K. C. Tan, Eds., Springer International Publishing, 679-693, http://dx.doi.org/10.1007/978-3-319-13359-1_52.
- Osafune, S., S. Masuda, N. Sugiura, and T. Doi, 2015: Evaluation of the applicability of the Estimated State of the Global Ocean for Climate Research (ESTOC) data set. *Geophysical Research Letters*, **42**, 4903-4911, <http://dx.doi.org/10.1002/2015GL064538>
- Ott, L. E., S. Pawson, G. J. Collatz, W. W. Gregg, D. Menemenlis, H. Brix, C. S. Rousseaux, K. W. Bowman, J. Liu, A. Eldering, M. R. Gunson, and S. R. Kawa, 2015: Assessing the magnitude of CO₂ flux uncertainty in atmospheric CO₂ records using products from NASA's Carbon Monitoring Flux Pilot Project. *Journal of Geophysical Research: Atmospheres*, **120**, 2014JD022411, <http://dx.doi.org/10.1002/2014JD022411>
- Palanisamy, H., A. Cazenave, T. Delcroix, and B. Meyssignac, 2015: Spatial trend patterns in the Pacific Ocean sea level during the altimetry era: the contribution of thermocline depth change and internal climate variability. *Ocean Dynamics*, **65**, 341-356, <http://dx.doi.org/10.1007/s10236-014-0805-7>
- Palanisamy, H., A. Cazenave, O. Henry, P. Prandi, and B. Meyssignac, 2015: Sea-Level Variations Measured by the New Altimetry Mission SARAL/AltiKa and its Validation Based on Spatial Patterns and Temporal Curves Using Jason-2, Tide Gauge Data and an Overview of the Annual Sea Level Budget. *Marine Geodesy*, **38**, 339-353, <http://dx.doi.org/10.1080/01490419.2014.1000469>
- Palmer, M. D., C. D. Roberts, M. Balmaseda, Y. S. Chang, G. Chepurin, N. Ferry, Y. Fujii, S. A. Good, S. Guinehut, K. Haines, F. Hernandez, A. Köhl, T. Lee, M. J. Martin, S. Masina, S. Masuda, K. A. Peterson, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, O. Wang, and Y. Xue, 2015: Ocean heat content variability and change in an ensemble of ocean reanalyses. *Climate Dynamics*, 1-22, <http://dx.doi.org/10.1007/s00382-015-2801-0>
- Pant, V., M. S. Girishkumar, T. V. S. U. Bhaskar, M. Ravichandran, F. Papa, and V. P. Thangaprakash, 2015: Observed interannual variability of near-surface salinity in the Bay of Bengal. *Journal of Geophysical Research: Oceans*, **120**, 3315-3329, <http://dx.doi.org/10.1002/2014JC010340>

- Park, K.-S., K.-Y. Heo, K. Jun, J.-I. Kwon, J. Kim, J.-Y. Choi, K.-H. Cho, B.-J. Choi, S.-N. Seo, Y. Kim, S.-D. Kim, C.-S. Yang, J.-C. Lee, S.-I. Kim, S. Kim, J.-W. Choi, and S.-H. Jeong, 2015: Development of the Operational Oceanographic System of Korea. *Ocean Science Journal*, **50**, 353-369, <http://dx.doi.org/10.1007/s12601-015-0033-1>
- Park, Y., H.-R. Shin, J.-H. Yoon, C.-H. Kim, and Y. Yoshikawa, 2015: Simulation of eddy-driven deep circulation in the East/Japan Sea by using a three-layer model with wind, throughflow and deep water formation forcings. *Journal of Marine Systems*, **150**, 41-55, <http://dx.doi.org/10.1016/j.jmarsys.2015.05.006>
- Pascual, A., S. Ruiz, B. Buongiorno Nardelli, S. Guinehut, D. Iudicone, and J. Tintoré, 2015: Net primary production in the Gulf Stream sustained by quasi-geostrophic vertical exchanges. *Geophysical Research Letters*, **42**, 2014GL062569, <http://dx.doi.org/10.1002/2014GL062569>
- Pasqueron de Fommervault, O., F. D'Ortenzio, A. Mangin, R. Serra, C. Migon, H. Claustre, H. Lavigne, M. Ribera d'Alcalà, L. Prieur, V. Taillandier, C. Schmechtig, A. Poteau, E. Leymarie, A. Dufour, F. Besson, and G. Obolensky, 2015: Seasonal variability of nutrient concentrations in the Mediterranean Sea: Contribution of Bio-Argo floats. *Journal of Geophysical Research: Oceans*, **120**, 8528-8550, <http://dx.doi.org/10.1002/2015JC011103>
- Pegliasco, C., A. Chaigneau, and R. Morrow, 2015: Main eddy vertical structures observed in the four major Eastern Boundary Upwelling Systems. *Journal of Geophysical Research: Oceans*, **120**, 6008-6033, <http://dx.doi.org/10.1002/2015JC010950>
- Pei, Y. H., R. H. Zhang, and D. K. Chen, 2015: Upper ocean response to tropical cyclone wind forcing: A case study of typhoon Rammasun (2008). *Science China Earth Sciences*, 1-10, <http://dx.doi.org/10.1007/s11430-015-5127-1>
- Peña-Izquierdo, J., E. van Sebille, J. L. Pelegrí, J. Sprintall, E. Mason, P. J. Llanillo, and F. Machín, 2015: Water mass pathways to the North Atlantic oxygen minimum zone. *Journal of Geophysical Research: Oceans*, **120**, 3350-3372, <http://dx.doi.org/10.1002/2014JC010557>
- Pérez-Hernández, M. D., G. D. McCarthy, P. Vélez-Belchí, D. A. Smeed, E. Fraile-Nuez, and A. Hernández-Guerra, 2015: The Canary Basin contribution to the seasonal cycle of the Atlantic Meridional Overturning Circulation at 26°N. *Journal of Geophysical Research: Oceans*, **120**, 7237-7252, <http://dx.doi.org/10.1002/2015JC010969>
- Pilcher, D. J., S. R. Brody, L. Johnson, and B. Bronselaer, 2015: Assessing the abilities of CMIP5 models to represent the seasonal cycle of surface ocean pCO₂. *Journal of Geophysical Research: Oceans*, **120**, 4625-4637, <http://dx.doi.org/10.1002/2015JC010759>
- Pinardi, N., M. Zavatarelli, M. Adani, G. Coppini, C. Fratianni, P. Oddo, S. Simoncelli, M. Tonani, V. Lyubartsev, S. Dobricic, and A. Bonaduce, 2015: Mediterranean Sea large-scale low-frequency ocean variability and water mass formation rates from 1987 to 2007: A retrospective analysis. *Progress in Oceanography*, **132**, 318-332, <http://dx.doi.org/10.1016/j.pocean.2013.11.003>
- Ponsoni, L., B. Aguiar-González, L. R. M. Maas, H. M. van Aken, and H. Ridderinkhof, 2015: Long-term observations of the East Madagascar Undercurrent. *Deep Sea Research Part I: Oceanographic Research Papers*, **100**, 64-78,

- <http://dx.doi.org/10.1016/j.dsr.2015.02.004>
- Prieto, E., C. González-Pola, A. Lavín, and N. P. Holliday, 2015: Interannual variability of the northwestern Iberia deep ocean: Response to large-scale North Atlantic forcing. *Journal of Geophysical Research: Oceans*, **120**, 832-847, <http://dx.doi.org/10.1002/2014JC010436>
- Qian, H., Y. Li, R. He, and D. B. Eggleston, 2015: Connectivity in the Intra-American Seas and implications for potential larval transport. *Coral Reefs*, **34**, 403-417, <http://dx.doi.org/10.1007/s00338-014-1244-0>
- Qing-quan, L. I., Z. Ren-he, and L. I. U. Yi-min, 2015: IMPROVEMENT OF OCEAN DATA ASSIMILATION SYSTEM AND CLIMATE PREDICTION BY ASSIMILATING ARGO DATA. *Journal of Tropical Meteorology*, **21**, 171-184, <http://search.ebscohost.com/login.aspx?direct=true&db=a9h&AN=102419363&site=ehost-live>
- Qiu, B., S. Chen, D. L. Rudnick, and Y. Kashino, 2015: A New Paradigm for the North Pacific Subthermocline Low-Latitude Western Boundary Current System. *Journal of Physical Oceanography*, **45**, 2407-2423, <http://dx.doi.org/10.1175/JPO-D-15-0035.1>
- Raghukumar, K., C. A. Edwards, N. L. Goebel, G. Broquet, M. Veneziani, A. M. Moore, and J. P. Zehr, 2015: Impact of assimilating physical oceanographic data on modeled ecosystem dynamics in the California Current System. *Progress in Oceanography*, **138, Part B**, 546-558, <http://dx.doi.org/10.1016/j.pocean.2015.01.004>
- Ran, L., J. Chen, M. G. Wiesner, Z. Ling, N. Lahajnar, Z. Yang, H. Li, Q. Hao, and K. Wang, 2015: Variability in the abundance and species composition of diatoms in sinking particles in the northern South China Sea: Results from time-series moored sediment traps. *Deep Sea Research Part II: Topical Studies in Oceanography*, **122**, 15-24, <http://dx.doi.org/10.1016/j.dsr2.2015.07.004>
- Rao, R. R., V. Jitendra, M. S. GirishKumar, M. Ravichandran, and S. S. V. S. Ramakrishna, 2015: Interannual variability of the Arabian Sea Warm Pool: observations and governing mechanisms. *Climate Dynamics*, **44**, 2119-2136, <http://dx.doi.org/10.1007/s00382-014-2243-0>
- Ratheesh, S., R. Sharma, K. V. S. R. Prasad, and S. Basu, 2015: Impact of SARAL/AltiKa-Derived Sea Level Anomaly in a Data Assimilative Ocean Prediction System for the Indian Ocean. *Marine Geodesy*, **38**, 354-364, <http://dx.doi.org/10.1080/01490419.2014.988833>
- Reverdin, G., S. Morisset, L. Marie, D. Bourras, G. Sutherland, B. Ward, J. Salvador, J. Font, Y. Cuyppers, L. Centurioni, V. Hormann, N. Koldziejczyk, J. Boutin, F. D'Ovidio, F. Nencioli, N. Martin, D. Diverrès, G. Alory, and R. Lumpkin, 2015: Surface salinity in the North Atlantic subtropical gyre during the STRASSE/SPURS summer 2012 cruise. *Oceanography*, **28**, 114-123, <http://dx.doi.org/10.5670/oceanog.2015.09>
- Riquelme-Bugueño, R., M. Correa-Ramírez, R. Escribano, S. Núñez, and S. Hormazábal, 2015: Mesoscale variability in the habitat of the Humboldt Current krill, spring 2007. *Journal of Geophysical Research: Oceans*, **120**, 2769-2783, <http://dx.doi.org/10.1002/2014JC010460>
- Riser, S. C., J. Anderson, A. Shcherbina, and E. D'Asaro, 2015: Variability in near-surface salinity from hours to decades in the eastern North Atlantic. *Oceanography*, **28**,

- 66-77, <http://dx.doi.org/10.5670/oceanog.2015.11>
- Roemmich, D., J. Church, J. Gilson, D. Monselesan, P. Sutton, and S. Wijffels, 2015: Unabated planetary warming and its ocean structure since 2006. *Nature Clim. Change*, **5**, 240-245, <http://dx.doi.org/10.1038/nclimate2513>
- Roessler, A., M. Rhein, D. Kieke, and C. Mertens, 2015: Long-term observations of North Atlantic Current transport at the gateway between western and eastern Atlantic. *Journal of Geophysical Research: Oceans*, **120**, 4003-4027, <http://dx.doi.org/10.1002/2014JC010662>
- Rogé, M., R. Morrow, and G. Dencausse, 2015: Altimetric Lagrangian advection to reconstruct Pacific Ocean fine-scale surface tracer fields. *Ocean Dynamics*, **65**, 1249-1268, <http://dx.doi.org/10.1007/s10236-015-0872-4>
- Rosell-Fieschi, M., J. L. Pelegrí, and J. Gourrion, 2015: Zonal jets in the equatorial Atlantic Ocean. *Progress in Oceanography*, **130**, 1-18, <http://dx.doi.org/10.1016/j.pocean.2014.08.008>
- Ryan, A. G., C. Regnier, P. Divakaran, T. Spindler, A. Mehra, G. C. Smith, F. Davidson, F. Hernandez, J. Maksymczuk, and Y. Liu, 2015: GODAE OceanView Class 4 forecast verification framework: global ocean inter-comparison. *Journal of Operational Oceanography*, **8**, s98-s111, <http://dx.doi.org/10.1080/1755876X.2015.1022330>
- Rykova, T. and P. R. Oke, 2015: Recent freshening of the East Australian Current and its eddies. *Geophysical Research Letters*, **42**, 9369-9378, <http://dx.doi.org/10.1002/2015GL066050>
- Sabu, P., J. V. George, N. Anilkumar, R. Chacko, V. Valsala, and C. T. Achuthankutty, 2015: Observations of watermass modification by mesoscale eddies in the subtropical frontal region of the Indian ocean sector of southern ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, **118, Part B**, 152-161, <http://dx.doi.org/10.1016/j.dsr2.2015.04.010>
- Sakov, P. and P. A. Sandery, 2015: Comparison of EnOI and EnKF regional ocean reanalysis systems. *Ocean Modelling*, **89**, 45-60, <http://dx.doi.org/10.1016/j.ocemod.2015.02.003>
- Sauzède, R., H. Claustre, C. Jamet, J. Uitz, J. Ras, A. Mignot, and F. D'Ortenzio, 2015: Retrieving the vertical distribution of chlorophyll a concentration and phytoplankton community composition from in situ fluorescence profiles: A method based on a neural network with potential for global-scale applications. *Journal of Geophysical Research: Oceans*, **120**, 451-470, <http://dx.doi.org/10.1002/2014JC010355>
- Sauzède, R., H. Lavigne, H. Claustre, J. Uitz, C. Schmechtig, F. D'Ortenzio, C. Guinet, and S. Pesant, 2015: Vertical distribution of chlorophyll a concentration and phytoplankton community composition from in situ fluorescence profiles: a first database for the global ocean. *Earth System Science Data*, **7**, 261-273, <http://dx.doi.org/10.5194/essd-7-261-2015>
- Schabetsberger, R., O. F. K. D., S. U. T. M., A. K. G. C., S. J. B. B., J. R. D. O. G., M. M. J., S. A. K. R., and Q. G., 2015: Genetic and migratory evidence for sympatric spawning of tropical Pacific eels from Vanuatu. *Marine Ecology Progress Series*, **521**, 171-187, <http://dx.doi.org/10.3354/meps11138>
- Schiller, A., M. Herzfeld, R. Brinkman, F. Rizwi, and J. Andrewartha, 2015: Cross-shelf

- exchanges between the Coral Sea and the Great Barrier Reef lagoon determined from a regional-scale numerical model. *Continental Shelf Research*, **109**, 150-163, <http://dx.doi.org/10.1016/j.csr.2015.09.011>
- Schiller, A. and P. R. Oke, 2015: Dynamics of ocean surface mixed layer variability in the Indian Ocean. *Journal of Geophysical Research: Oceans*, **120**, 4162-4186, <http://dx.doi.org/10.1002/2014JC010538>
- Schneider, L., D. Kieke, K. Jochumsen, E. Colbourne, I. Yashayaev, R. Steinfeldt, E. Varotsou, N. Serra, and M. Rhein, 2015: Variability of Labrador Sea Water transported through Flemish Pass during 1993–2013. *Journal of Geophysical Research: Oceans*, **120**, 5514-5533, <http://dx.doi.org/10.1002/2015JC010939>
- Schönau, M. C. and D. L. Rudnick, 2015: Glider observations of the North Equatorial Current in the western tropical Pacific. *Journal of Geophysical Research: Oceans*, **120**, 3586-3605, <http://dx.doi.org/10.1002/2014JC010595>
- Sena Martins, M., N. Serra, and D. Stammer, 2015: Spatial and temporal scales of sea surface salinity variability in the Atlantic Ocean. *Journal of Geophysical Research: Oceans*, **120**, 4306-4323, <http://dx.doi.org/10.1002/2014JC010649>
- Sena Martins, M. and D. Stammer, 2015: Pacific Ocean surface freshwater variability underneath the double ITCZ as seen by satellite sea surface salinity retrievals. *Journal of Geophysical Research: Oceans*, **120**, 5870-5885, <http://dx.doi.org/10.1002/2015JC010895>
- Seo, G.-H., B.-J. Choi, Y.-K. Cho, Y. H. Kim, and S. Kim, 2015: Evaluation of a regional ocean reanalysis system for the East Asian Marginal Seas based on the ensemble Kalman filter. *Ocean Science Journal*, **50**, 29-48, <http://dx.doi.org/10.1007/s12601-015-0003-7>
- Shcherbina, A. Y., E. A. D'Asaro, S. C. Riser, and W. Kessler, 2015: Variability and interleaving of upper-ocean water masses surrounding the North Atlantic salinity maximum. *Oceanography*, **28**, 106-113, <http://dx.doi.org/10.5670/oceanog.2015.12>
- Shetye, S. S., R. Mohan, S. Patil, B. Jena, R. Chacko, J. V. George, S. Noronha, N. Singh, L. Priya, and M. Sudhakar, 2015: Oceanic pCO₂ in the Indian sector of the Southern Ocean during the austral summer–winter transition phase. *Deep Sea Research Part II: Topical Studies in Oceanography*, **118, Part B**, 250-260, <http://dx.doi.org/10.1016/j.dsr2.2015.05.017>
- Shi, L., O. Alves, R. Wedd, M. A. Balmaseda, Y. Chang, G. Chepurin, N. Ferry, Y. Fujii, F. Gaillard, S. A. Good, S. Guinehut, K. Haines, F. Hernandez, T. Lee, M. Palmer, K. A. Peterson, S. Masuda, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, X. Wang, and Y. Yin, 2015: An assessment of upper ocean salinity content from the Ocean Reanalyses Inter-comparison Project (ORA-IP). *Climate Dynamics*, **49**, 1009-1029, <http://dx.doi.org/10.1007/s00382-015-2868-7>
- Shiozaki, T., S. Takeda, S. Itoh, T. Kodama, X. Liu, F. Hashihama, and K. Furuya, 2015: Why is *Trichodesmium* abundant in the Kuroshio? *Biogeosciences*, **12**, 6931-6943, <http://dx.doi.org/10.5194/bg-12-6931-2015>
- Siswanto, E., K. Matsumoto, M. C. Honda, T. Fujiki, K. Sasaoka, and T. Saino, 2015: Reappraisal of meridional differences of factors controlling phytoplankton biomass and initial increase preceding seasonal bloom in the northwestern Pacific Ocean.

- Remote Sensing of Environment*, **159**, 44-56,
<http://dx.doi.org/10.1016/j.rse.2014.11.028>
- Sivareddy, S., M. Ravichandran, M. Girishkumar, and K. Prasad, 2015: Assessing the impact of various wind forcing on INCOIS-GODAS simulated ocean currents in the equatorial Indian Ocean. *Ocean Dynamics*, **65**, 1235-1247,
<http://dx.doi.org/10.1007/s10236-015-0870-6>
- Sloyan, B. M. and T. J. O'Kane, 2015: Drivers of decadal variability in the Tasman Sea. *Journal of Geophysical Research: Oceans*, **120**, 3193-3210,
<http://dx.doi.org/10.1002/2014JC010550>
- Smith, D. M., R. P. Allan, A. C. Coward, R. Eade, P. Hyder, C. Liu, N. G. Loeb, M. D. Palmer, C. D. Roberts, and A. A. Scaife, 2015: Earth's energy imbalance since 1960 in observations and CMIP5 models. *Geophysical Research Letters*, **42**, 1205-1213,
<http://dx.doi.org/10.1002/2014GL062669>
- Song, Y. T., T. Lee, J.-H. Moon, T. Qu, and S. Yueh, 2015: Modeling skin-layer salinity with an extended surface-salinity layer. *Journal of Geophysical Research: Oceans*, **120**, 1079-1095, <http://dx.doi.org/10.1002/2014JC010346>
- Sotillo, M. G., S. Cailleau, P. Lorente, B. Levier, R. Aznar, G. Reffray, A. Amo-Baladrón, J. Chanut, M. Benkiran, and E. Alvarez-Fanjul, 2015: The MyOcean IBI Ocean Forecast and Reanalysis Systems: operational products and roadmap to the future Copernicus Service. *Journal of Operational Oceanography*, **8**, 63-79,
<http://dx.doi.org/10.1080/1755876X.2015.1014663>
- Sreejith, O. P., S. Panickal, S. Pai, and M. Rajeevan, 2015: An Indian Ocean precursor for Indian summer monsoon rainfall variability. *Geophysical Research Letters*, **42**, 9345-9354, <http://dx.doi.org/10.1002/2015GL065950>
- Srokosz, M. A. and H. L. Bryden, 2015: OCEAN CIRCULATION. Observing the Atlantic Meridional Overturning Circulation yields a decade of inevitable surprises. *Science*, **348**, 1255575, <http://dx.doi.org/10.1126/science.1255575>
- Stanfield, R. E., X. Dong, B. Xi, A. D. Del Genio, P. Minnis, D. Doelling, and N. Loeb, 2015: Assessment of NASA GISS CMIP5 and Post-CMIP5 Simulated Clouds and TOA Radiation Budgets Using Satellite Observations. Part II: TOA Radiation Budget and CREs. *Journal of Climate*, **28**, 1842-1864,
<http://dx.doi.org/10.1175/JCLI-D-14-00249.1>
- Storto, A., S. Masina, M. Balmaseda, S. Guinehut, Y. Xue, T. Szekely, I. Fukumori, G. Forget, Y.-S. Chang, S. Good, A. Köhl, G. Vernieres, N. Ferry, K. A. Peterson, D. Behringer, M. Ishii, S. Masuda, Y. Fujii, T. Toyoda, Y. Yin, M. Valdivieso, B. Barnier, T. Boyer, T. Lee, J. Gourrion, O. Wang, P. Heimback, A. Rosati, R. Kovach, F. Hernandez, M. Martin, M. Kamachi, T. Kuragano, K. Mogensen, O. Alves, K. Haines, and X. Wang, 2015: Steric sea level variability (1993–2010) in an ensemble of ocean reanalyses and objective analyses. *Climate Dynamics*, **49**, 709-729,
<http://dx.doi.org/10.1007/s00382-015-2554-9>
- Stramska, M. and A. Cieszyńska, 2015: Ocean colour estimates of particulate organic carbon reservoirs in the global ocean – revisited. *International Journal of Remote Sensing*, **36**, 3675-3700, <http://dx.doi.org/10.1080/01431161.2015.1049380>
- Strutton, P. G., V. J. Coles, R. R. Hood, R. J. Matear, M. J. McPhaden, and H. E. Phillips, 2015:

- Biogeochemical variability in the central equatorial Indian Ocean during the monsoon transition. *Biogeosciences*, **12**, 2367-2382, <http://dx.doi.org/10.5194/bg-12-2367-2015>
- Su, H., X. Wu, X.-H. Yan, and A. Kidwell, 2015: Estimation of subsurface temperature anomaly in the Indian Ocean during recent global surface warming hiatus from satellite measurements: A support vector machine approach. *Remote Sensing of Environment*, **160**, 63-71, <http://dx.doi.org/10.1016/j.rse.2015.01.001>
- Sukresno, B., A. Hartoko, B. Sulistyono, and Subiyanto, 2015: Empirical Cumulative Distribution Function (ECDF) Analysis of Thunnus.sp Using ARGO Float Sub-surface Multilayer Temperature Data in Indian Ocean South of Java. *Procedia Environmental Sciences*, **23**, 358-367, <http://dx.doi.org/10.1016/j.proenv.2015.01.052>
- Sun, C., X. Wang, X. Cui, X. Zhang, L. Zhang, C. Shao, X. Wu, H. Fu, and W. Li, 2015: Satellite derived upper ocean thermal structure and its application to tropical cyclone intensity forecasting in the Indian Ocean. *Chinese Journal of Oceanology and Limnology*, **33**, 1219-1232, <http://dx.doi.org/10.1007/s00343-015-4114-x>
- Sun, J. and L.-Y. Oey, 2015: The Influence of the Ocean on Typhoon Nuri (2008). *Monthly Weather Review*, **143**, 4493-4513, <http://dx.doi.org/10.1175/MWR-D-15-0029.1>
- Sun, J., L.-Y. Oey, R. Chang, F. Xu, and S.-M. Huang, 2015: Ocean response to typhoon Nuri (2008) in western Pacific and South China Sea. *Ocean Dynamics*, **65**, 735-749, <http://dx.doi.org/10.1007/s10236-015-0823-0>
- Syed, N. A. and S. G. Ahmed, 2015: Study of impact of climatic variability on the sea surface temperature and Chlorophyll-a concentration using Statistical analysis on Satellite derived data for the Arabian Sea. *International Journal of Marine Science*, **5**, <http://dx.doi.org/10.5376/ijms.2015.05.0002>
- Tanjura, C. A. S., L. N. Lima, and K. P. Belyaev, 2015: Assimilation of satellite surface-height anomalies data into a Hybrid Coordinate Ocean Model (HYCOM) over the Atlantic Ocean. *Oceanology*, **55**, 667-678, <http://dx.doi.org/10.1134/S0001437015050161>
- Tchilibou, M., T. Delcroix, G. Alory, S. Arnault, and G. Reverdin, 2015: Variations of the tropical Atlantic and Pacific SSS minimum zones and their relations to the ITCZ and SPCZ rain bands (1979–2009). *Journal of Geophysical Research: Oceans*, **120**, 5090-5100, <http://dx.doi.org/10.1002/2015JC010836>
- Thomas, M. D., A.-M. Tréguier, B. Blanke, J. Deshayes, and A. Voltaire, 2015: A Lagrangian Method to Isolate the Impacts of Mixed Layer Subduction on the Meridional Overturning Circulation in a Numerical Model. *Journal of Climate*, **28**, 7503-7517, <http://dx.doi.org/10.1175/JCLI-D-14-00631.1>
- Tonani, M., M. Balmaseda, L. Bertino, E. Blockley, G. Brassington, F. Davidson, Y. Drillet, P. Hogan, T. Kuragano, T. Lee, A. Mehra, F. Paranathara, C. A. S. Tanajura, and H. Wang, 2015: Status and future of global and regional ocean prediction systems. *Journal of Operational Oceanography*, **8**, s201-s220, <http://dx.doi.org/10.1080/1755876X.2015.1049892>
- Tong, X., Z. Wang, and Q. Li, 2015: A method for correcting regional bias in SMOS global salinity products. *Chinese Journal of Oceanology and Limnology*, **33**, 1072-1084, <http://dx.doi.org/10.1007/s00343-015-4196-5>
- Tortell, P. D., H. C. Bittig, A. Körtzinger, E. M. Jones, and M. Hoppema, 2015: Biological and

- physical controls on N₂, O₂, and CO₂ distributions in contrasting Southern Ocean surface waters. *Global Biogeochemical Cycles*, **29**, 994-1013, <http://dx.doi.org/10.1002/2014GB004975>
- Toyama, K., A. Iwasaki, and T. Suga, 2015: Interannual Variation of Annual Subduction Rate in the North Pacific Estimated from a Gridded Argo Product. *Journal of Physical Oceanography*, **45**, 2276-2293, <http://dx.doi.org/10.1175/JPO-D-14-0223.1>
- Toyoda, T., Y. Fujii, T. Kuragano, M. Kamachi, Y. Ishikawa, S. Masuda, K. Sato, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M. Martin, K. A. Peterson, S. Good, M. Valdivieso, K. Haines, A. Storto, S. Masina, A. Köhl, H. Zuo, M. Balmaseda, Y. Yin, L. Shi, O. Alves, G. Smith, Y.-S. Chang, G. Vernieres, X. Wang, G. Forget, P. Heimbach, O. Wang, I. Fukumori, and T. Lee, 2015: Intercomparison and validation of the mixed layer depth fields of global ocean syntheses. *Climate Dynamics*, **49**, 753-773, <http://dx.doi.org/10.1007/s00382-015-2637-7>
- Toyoda, T., Y. Fujii, T. Kuragano, N. Kosugi, D. Sasano, M. Kamachi, Y. Ishikawa, S. Masuda, K. Sato, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M. Martin, K. Andrew Peterson, S. Good, M. Valdivieso, K. Haines, A. Storto, S. Masina, A. Köhl, Y. Yin, L. Shi, O. Alves, G. Smith, Y.-S. Chang, G. Vernieres, X. Wang, G. Forget, P. Heimbach, O. Wang, I. Fukumori, T. Lee, H. Zuo, and M. Balmaseda, 2015: Interannual-decadal variability of wintertime mixed layer depths in the North Pacific detected by an ensemble of ocean syntheses. *Climate Dynamics*, **49**, 891-907, <http://dx.doi.org/10.1007/s00382-015-2762-3>
- Tsai, C.-J., M. Andres, S. Jan, V. Mensah, T. B. Sanford, R.-C. Lien, and C. M. Lee, 2015: Eddy-Kuroshio interaction processes revealed by mooring observations off Taiwan and Luzon. *Geophysical Research Letters*, **42**, 8098-8105, <http://dx.doi.org/10.1002/2015GL065814>
- Tu, Q., D. Pan, and Z. Hao, 2015: Validation of S-NPP VIIRS Sea Surface Temperature Retrieved from NAVO. *Remote Sensing*, **7**, 17234-17245, <https://doi.org/10.3390/rs71215881>
- Udaya Naresh, V. V. B., 2015: Geoprocessing Desktop Application for INCOIS Web Services. *Asian Journal of Multidisciplinary Studies*, **3**, <http://www.ajms.co.in/sites/ajms2015/index.php/ajms/article/view/1294>
- Våge, K., G. W. K. Moore, S. Jónsson, and H. Valdimarsson, 2015: Water mass transformation in the Iceland Sea. *Deep Sea Research Part I: Oceanographic Research Papers*, **101**, 98-109, <http://dx.doi.org/10.1016/j.dsr.2015.04.001>
- Vandenbulcke, L. and A. Barth, 2015: A stochastic operational forecasting system of the Black Sea: Technique and validation. *Ocean Modelling*, **93**, 7-21, <http://dx.doi.org/10.1016/j.ocemod.2015.07.010>
- Villar, E., G. K. Farrant, M. Follows, L. Garczarek, S. Speich, S. Audic, L. Bittner, B. Blanke, J. R. Brum, C. Brunet, R. Casotti, A. Chase, J. R. Dolan, F. d'Ortenzio, J.-P. Gattuso, N. Grima, L. Guidi, C. N. Hill, O. Jahn, J.-L. Jamet, H. Le Goff, C. Lepoivre, S. Malviya, E. Pelletier, J.-B. Romagnan, S. Roux, S. Santini, E. Scalco, S. M. Schwenck, A. Tanaka, P. Testor, T. Vannier, F. Vincent, A. Zingone, C. Dimier, M. Picheral, S. Searson, S. Kandels-Lewis, T. O. Coordinators, S. G. Acinas, P. Bork, E. Boss, C. de Vargas, G. Gorsky, H. Ogata, S. Pesant, M. B. Sullivan, S. Sunagawa, P. Wincker, E. Karsenti, C.

- Bowler, F. Not, P. Hingamp, and D. Iudicone, 2015: Environmental characteristics of Agulhas rings affect interocean plankton transport. *Science*, **348**, <http://dx.doi.org/10.1126/science.1261447>
- Volkov, D. L., A. A. Kubryakov, and R. Lumpkin, 2015: Formation and variability of the Lofoten basin vortex in a high-resolution ocean model. *Deep Sea Research Part I: Oceanographic Research Papers*, **105**, 142-157, <http://dx.doi.org/10.1016/j.dsr.2015.09.001>
- Wada, A., 2015: Utilization of tropical cyclone heat potential for improving tropical cyclone intensity. *RSMC Tokyo-Typhoon Center Technical Review*, **17**,
- Wada, A., 2015: Unusually rapid intensification of Typhoon Man-yi in 2013 under preexisting warm-water conditions near the Kuroshio front south of Japan. *Journal of Oceanography*, **71**, 597-622, <http://dx.doi.org/10.1007/s10872-015-0273-9>
- Wada, A., 2015: Verification of tropical cyclone heat potential for tropical cyclone intensity forecasting in the Western North Pacific. *Journal of Oceanography*, **71**, 373-387, <http://dx.doi.org/10.1007/s10872-015-0298-0>
- Walker Brown, C., J. Boutin, and L. Merlivat, 2015: New insights into fCO₂ variability in the tropical eastern Pacific Ocean using SMOS SSS. *Biogeosciences*, **12**, 7315-7329, <http://dx.doi.org/10.5194/bg-12-7315-2015>
- Wang, A., Y. Du, W. Zhuang, and Y. Qi, 2015: Correlation between subsurface high-salinity water in the northern South China Sea and the North Equatorial Current–Kuroshio circulation system from HYCOM simulations. *Ocean Science*, **11**, 305-312, <http://dx.doi.org/10.5194/os-11-305-2015>
- Wang, F., N. Zang, Y. Li, and D. Hu, 2015: On the subsurface countercurrents in the Philippine Sea. *Journal of Geophysical Research: Oceans*, **120**, 131-144, <http://dx.doi.org/10.1002/2013JC009690>
- Wang, H., K. Fan, J. Sun, S. Li, Z. Lin, G. Zhou, L. Chen, X. Lang, F. Li, Y. Zhu, H. Chen, and F. Zheng, 2015: A review of seasonal climate prediction research in China. *Advances in Atmospheric Sciences*, **32**, 149-168, <http://dx.doi.org/10.1007/s00376-014-0016-7>
- Wang, R., F. Yu, and F. Nan, 2015: Weakening of subduction in the Subtropical Mode Water formation region observed during 2003–2013. *Journal of Geophysical Research: Oceans*, **120**, 7271-7281, <http://dx.doi.org/10.1002/2015JC010967>
- Wang, T., Y. Du, W. Zhuang, and J. Wang, 2015: Connection of sea level variability between the tropical western Pacific and the southern Indian Ocean during recent two decades. *Science China Earth Sciences*, **58**, 1387-1396, <http://dx.doi.org/10.1007/s11430-014-5048-4>
- Wang, X., V. Bhatt, and Y.-J. Sun, 2015: Seasonal and inter-annual variability of western subtropical mode water in the South Pacific Ocean. *Ocean Dynamics*, **65**, 143-154, <http://dx.doi.org/10.1007/s10236-014-0792-8>
- Wang, X. and H. Liu, 2015: Seasonal-to-interannual variability of the barrier layer in the western Pacific warm pool associated with ENSO. *Climate Dynamics*, **47**, 375-392, <http://dx.doi.org/10.1007/s00382-015-2842-4>
- Wang, Z., I. Yashayaev, and B. Greenan, 2015: Seasonality of the inshore Labrador current over the Newfoundland shelf. *Continental Shelf Research*, **100**, 1-10, <https://doi.org/10.1016/j.csr.2015.03.010>

- Wedd, R., M. Stringer, and K. Haines, 2015: Argo real-time quality control intercomparison. *Journal of Operational Oceanography*, **8**, 108-122, <http://dx.doi.org/10.1080/1755876X.2015.1087186>
- Whalen, C. B., J. A. MacKinnon, L. D. Talley, and A. F. Waterhouse, 2015: Estimating the Mean Diapycnal Mixing Using a Finescale Strain Parameterization. *Journal of Physical Oceanography*, **45**, 1174-1188, <http://dx.doi.org/10.1175/JPO-D-14-0167.1>
- White, R. H., 2015: Using multiple passive tracers to identify the importance of the North Brazil undercurrent for Atlantic cold tongue variability. *Quarterly Journal of the Royal Meteorological Society*, **141**, 2505-2517, <http://dx.doi.org/10.1002/qj.2536>
- Wijesekera, H. W., T. G. Jensen, E. Jarosz, W. J. Teague, E. J. Metzger, D. W. Wang, S. U. P. Jinadasa, K. Arulanathan, L. R. Centurioni, and H. J. S. Fernando, 2015: Southern Bay of Bengal currents and salinity intrusions during the northeast monsoon. *Journal of Geophysical Research: Oceans*, **120**, 6897-6913, <http://dx.doi.org/10.1002/2015JC010744>
- Williams, R. G., V. Roussenov, M. S. Lozier, and D. Smith, 2015: Mechanisms of Heat Content and Thermocline Change in the Subtropical and Subpolar North Atlantic. *Journal of Climate*, **28**, 9803-9815, <http://dx.doi.org/10.1175/JCLI-D-15-0097.1>
- Wilson, S. T., B. Barone, F. Ascani, R. R. Bidigare, M. J. Church, D. A. del Valle, S. T. Dyrman, S. Ferrón, J. N. Fitzsimmons, L. W. Juranek, Z. S. Kolber, R. M. Letelier, S. Martínez-García, D. P. Nicholson, K. J. Richards, Y. M. Rii, M. Rouco, D. A. Viviani, A. E. White, J. P. Zehr, and D. M. Karl, 2015: Short-term variability in euphotic zone biogeochemistry and primary productivity at Station ALOHA: A case study of summer 2012. *Global Biogeochemical Cycles*, **29**, 1145-1164, <http://dx.doi.org/10.1002/2015GB005141>
- Woodham, R. H., O. Alves, G. B. Brassington, R. Robertson, and A. Kiss, 2015: Evaluation of ocean forecast performance for Royal Australian Navy exercise areas in the Tasman Sea. *Journal of Operational Oceanography*, **8**, 147-161, <https://doi.org/10.1080/1755876X.2015.1087187>
- Woolfe, K. F., S. Lani, K. G. Sabra, and W. A. Kuperman, 2015: Monitoring deep-ocean temperatures using acoustic ambient noise. *Geophysical Research Letters*, **42**, 2878-2884, <http://dx.doi.org/10.1002/2015GL063438>
- Wu, X., Z. Liu, G. Liao, and L. Wu, 2015: Variation of Indo-Pacific upper ocean heat content during 2001-2012 revealed by Argo. *Acta Oceanologica Sinica*, **34**, 29-38, <http://dx.doi.org/10.1007/s13131-015-0664-1>
- Xia, R., Q. Liu, L. Xu, and Y. Lu, 2015: North Pacific Eastern Subtropical Mode Water simulation and future projection. *Acta Oceanologica Sinica*, **34**, 25-30, <http://dx.doi.org/10.1007/s13131-015-0630-y>
- Xu, F.-H. and L.-Y. Oey, 2015: Seasonal SSH Variability of the Northern South China Sea. *Journal of Physical Oceanography*, **45**, 1595-1609, <http://dx.doi.org/10.1175/JPO-D-14-0193.1>
- Xue, Y., C. Wen, X. Yang, D. Behringer, A. Kumar, G. Vecchi, A. Rosati, and R. Gudgel, 2015: Evaluation of tropical Pacific observing systems using NCEP and GFDL ocean data assimilation systems. *Climate Dynamics*, **49**, 843-868, <http://dx.doi.org/10.1007/s00382-015-2743-6>

- Yan, C., J. Zhu, and C. A. S. Tanajura, 2015: Impacts of mean dynamic topography on a regional ocean assimilation system. *Ocean Science*, **11**, 829-837, <http://dx.doi.org/10.5194/os-11-829-2015>
- Yan, C., J. Zhu, and J. Xie, 2015: An ocean data assimilation system in the Indian Ocean and west Pacific Ocean. *Advances in Atmospheric Sciences*, **32**, 1460-1472, <http://dx.doi.org/10.1007/s00376-015-4121-z>
- Yan, X. and C. Sun, 2015: An altimetric transport index for Kuroshio inflow northeast of Taiwan Island. *Science China Earth Sciences*, **58**, 697-706, <http://dx.doi.org/10.1007/s11430-014-5024-z>
- Yan, Y., A. Barth, J. M. Beckers, G. Candille, J. M. Brankart, and P. Brasseur, 2015: Ensemble assimilation of ARGO temperature profile, sea surface temperature, and altimetric satellite data into an eddy permitting primitive equation model of the North Atlantic Ocean. *Journal of Geophysical Research: Oceans*, **120**, 5134-5157, <http://dx.doi.org/10.1002/2014JC010349>
- Yan, Y., G. Wang, C. Wang, and J. Su, 2015: Low-salinity water off West Luzon Island in summer. *Journal of Geophysical Research: Oceans*, **120**, 3011-3021, <http://dx.doi.org/10.1002/2014JC010465>
- Yang, G., W. Yu, Y. Yuan, X. Zhao, F. Wang, G. Chen, L. Liu, and Y. Duan, 2015: Characteristics, vertical structures, and heat/salt transports of mesoscale eddies in the southeastern tropical Indian Ocean. *Journal of Geophysical Research: Oceans*, **120**, 6733-6750, <http://dx.doi.org/10.1002/2015JC011130>
- Yang, J., S. C. Riser, J. A. Nystuen, W. E. Asher, and A. T. Jessup, 2015: Regional rainfall measurements using the Passive Aquatic Listener during the SPURS field campaign. *Oceanography*, **28**, 124-133, <http://dx.doi.org/10.5670/oceanog.2015.10>
- Yang, T., Z. Chen, and Y. He, 2015: A new method to retrieve salinity profiles from sea surface salinity observed by SMOS satellite. *Acta Oceanologica Sinica*, **34**, 85-93, <http://dx.doi.org/10.1007/s13131-015-0735-3>
- Yang, T. and Y. Xu, 2015: Estimation of the time series of the meridional heat transport across 15°N in the Pacific Ocean from Argo and satellite data. *Journal of Geophysical Research: Oceans*, **120**, 3043-3060, <http://dx.doi.org/10.1002/2015JC010752>
- Yashayaev, I., D. Seidov, and E. Demirov, 2015: A new collective view of oceanography of the Arctic and North Atlantic basins. *Progress in Oceanography*, **132**, 1-21, <http://dx.doi.org/10.1016/j.pocean.2014.12.012>
- Yi, S., W. Sun, K. Heki, and A. Qian, 2015: An increase in the rate of global mean sea level rise since 2010. *Geophysical Research Letters*, **42**, 3998-4006, <http://dx.doi.org/10.1002/2015GL063902>
- Yoshida, S., A. M. Macdonald, S. R. Jayne, I. I. Rypina, and K. O. Buesseler, 2015: Observed eastward progression of the Fukushima 134Cs signal across the North Pacific. *Geophysical Research Letters*, **42**, 7139-7147, <http://dx.doi.org/10.1002/2015GL065259>
- Yoshikawa, Y., 2015: Scaling Surface Mixing/Mixed Layer Depth under Stabilizing Buoyancy Flux. *Journal of Physical Oceanography*, **45**, 247-258, <http://dx.doi.org/10.1175/JPO-D-13-0190.1>
- Youngs, M. K. and G. C. Johnson, 2015: Basin-Wavelength Equatorial Deep Jet Signals across

- Three Oceans. *Journal of Physical Oceanography*, **45**, 2134-2148, <http://dx.doi.org/10.1175/JPO-D-14-0181.1>
- Yu, K., T. Qu, C. Dong, and Y. Yan, 2015: Effect of subtropical mode water on the decadal variability of the subsurface transport through the Luzon Strait in the western Pacific Ocean. *Journal of Geophysical Research: Oceans*, **120**, 6829-6842, <http://dx.doi.org/10.1002/2015JC011016>
- Yu, L., 2015: Sea-surface salinity fronts and associated salinity-minimum zones in the tropical ocean. *Journal of Geophysical Research: Oceans*, **120**, 4205-4225, <http://dx.doi.org/10.1002/2015JC010790>
- Zaron, E. D., P. J. Fitzpatrick, S. L. Cross, J. M. Harding, F. L. Bub, J. D. Wiggert, D. S. Ko, Y. Lau, K. Woodard, and C. N. K. Mooers, 2015: Initial evaluations of a Gulf of Mexico/Caribbean ocean forecast system in the context of the Deepwater Horizon disaster. *Frontiers of Earth Science*, **9**, 605-636, <http://dx.doi.org/10.1007/s11707-014-0508-x>
- Zhang, L. and T. Qu, 2015: Low-Frequency Variability of the South Pacific Subtropical Gyre as Seen from Satellite Altimetry and Argo. *Journal of Physical Oceanography*, **45**, 3083-3098, <http://dx.doi.org/10.1175/JPO-D-15-0026.1>
- Zhang, R.-H., C. Gao, X. Kang, H. Zhi, Z. Wang, and L. Feng, 2015: ENSO Modulations due to Interannual Variability of Freshwater Forcing and Ocean Biology-induced Heating in the Tropical Pacific. *Scientific Reports*, **5**, 18506, <http://dx.doi.org/10.1038/srep18506>
- Zhang, W.-Z., H. Xue, F. Chai, and Q. Ni, 2015: Dynamical processes within an anticyclonic eddy revealed from Argo floats. *Geophysical Research Letters*, **42**, 2342-2350, <http://dx.doi.org/10.1002/2015GL063120>
- Zhang, X. and A. J. Clarke, 2015: Observations of Interannual Equatorial Freshwater Jets in the Western Pacific. *Journal of Physical Oceanography*, **45**, 2848-2865, <http://dx.doi.org/10.1175/JPO-D-14-0245.1>
- Zhang, X., X. Wang, Y. Cao, L. Zhang, C. Shao, C. Sun, X. Wu, H. Fu, and L. Xuan, 2015: Climate modulation on sea surface height in China seas. *Chinese Journal of Oceanology and Limnology*, **33**, 1245-1255, <http://dx.doi.org/10.1007/s00343-015-4120-z>
- Zhang, Z., P. Li, L. Xu, C. Li, W. Zhao, J. Tian, and T. Qu, 2015: Subthermocline eddies observed by rapid-sampling Argo floats in the subtropical northwestern Pacific Ocean in Spring 2014. *Geophysical Research Letters*, **42**, 6438-6445, <http://dx.doi.org/10.1002/2015GL064601>
- Zhao, M. S. N., 2015: A Simulation Model of Seawater Vertical Temperature by Using Back-Propagation Neural Network. *Polish Maritime Research*, **22**, 82-88, <http://dx.doi.org/10.1515/pomr-2015-0037>
- Zheng, F., H. Wang, and L. Wan, 2015: Effects of interannual salinity variability on the dynamic height in the western equatorial Pacific as diagnosed by Argo. *Acta Oceanologica Sinica*, **34**, 22-28, <http://dx.doi.org/10.1007/s13131-015-0663-2>
- Zheng, F. and R.-H. Zhang, 2015: Interannually varying salinity effects on ENSO in the tropical Pacific: a diagnostic analysis from Argo. *Ocean Dynamics*, **65**, 691-705, <http://dx.doi.org/10.1007/s10236-015-0829-7>
- Zhi, H., R.-H. Zhang, P. Lin, and L. Wang, 2015: Simulation of salinity variability and the

- related freshwater flux forcing in the tropical Pacific: An evaluation using the Beijing normal university earth system model (BNU-ESM). *Advances in Atmospheric Sciences*, **32**, 1551-1564, <http://dx.doi.org/10.1007/s00376-015-4240-6>
- Zhi, H., R.-H. Zhang, P. Lin, and L. Wang, 2015: Quantitative analysis of the feedback induced by the freshwater flux in the tropical Pacific using CMIP5. *Advances in Atmospheric Sciences*, **32**, 1341-1353, <http://dx.doi.org/10.1007/s00376-015-5064-0>
- Zhu, J., A. Kumar, and B. Huang, 2015: The relationship between thermocline depth and SST anomalies in the eastern equatorial Pacific: Seasonality and decadal variations. *Geophysical Research Letters*, **42**, 4507-4515, <http://dx.doi.org/10.1002/2015GL064220>
- Zhu, X.-H., R. Zhao, X. Guo, Y. Long, Y.-L. Ma, and X. Fan, 2015: A long-term volume transport time series estimated by combining in situ observation and satellite altimeter data in the northern South China Sea. *Journal of Oceanography*, **71**, 663-673, <http://dx.doi.org/10.1007/s10872-015-0305-5>
- Zika, J. D., N. Skliris, A. J. G. Nurser, S. A. Josey, L. Mudryk, F. Laliberté, and R. Marsh, 2015: Maintenance and Broadening of the Ocean's Salinity Distribution by the Water Cycle. *Journal of Climate*, **28**, 9550-9560, <http://dx.doi.org/10.1175/JCLI-D-15-0273.1>
- Zuo, H., M. Balmaseda, and K. Mogensen, 2015: The new eddy-permitting ORAP5 ocean reanalysis: description, evaluation and uncertainties in climate signals. *Climate Dynamics*, **49**, 791-811, <http://dx.doi.org/10.1007/s00382-015-2675-1>

2014 (359)

- Abe, H. and N. Ebuchi, 2014: Evaluation of sea-surface salinity observed by Aquarius. *Journal of Geophysical Research: Oceans*, **119**, 8109-8121, <http://dx.doi.org/10.1002/2014JC010094>
- Akhil, V. P., F. Durand, M. Lengaigne, J. Vialard, M. G. Keerthi, V. V. Gopalakrishna, C. Deltel, F. Papa, and C. de Boyer Montégut, 2014: A modeling study of the processes of surface salinity seasonal cycle in the Bay of Bengal. *Journal of Geophysical Research: Oceans*, **119**, 3926-3947, <http://dx.doi.org/10.1002/2013JC009632>
- Allan, R. P., C. Liu, N. G. Loeb, M. D. Palmer, M. Roberts, D. Smith, and P.-L. Vidale, 2014: Changes in global net radiative imbalance 1985–2012. *Geophysical Research Letters*, **41**, 5588-5597, <http://dx.doi.org/10.1002/2014GL060962>
- Anderson, J. E. and S. C. Riser, 2014: Near-surface variability of temperature and salinity in the near-tropical ocean: Observations from profiling floats. *Journal of Geophysical Research: Oceans*, **119**, 7433-7448, <http://dx.doi.org/10.1002/2014JC010112>
- Anilkumar, N., J. V. George, R. Chacko, N. Nuncio, and P. Sabu, 2014: Variability of fronts, fresh water input and chlorophyll in the Indian Ocean sector of the Southern Ocean. *New Zealand Journal of Marine and Freshwater Research*, **49**, 20-40, <http://dx.doi.org/10.1080/00288330.2014.924972>
- Atkinson, C. P., N. A. Rayner, J. J. Kennedy, and S. A. Good, 2014: An integrated database of ocean temperature and salinity observations. *Journal of Geophysical Research: Oceans*, **119**, 7139-7163, <http://dx.doi.org/10.1002/2014JC010053>
- Auger, P. A., C. Ulses, C. Estournel, L. Stemann, S. Somot, and F. Diaz, 2014: Interannual

- control of plankton communities by deep winter mixing and prey/predator interactions in the NW Mediterranean: Results from a 30-year 3D modeling study. *Progress in Oceanography*, **124**, 12-27, <http://dx.doi.org/10.1016/j.pocean.2014.04.004>
- Azaneu, M., R. Kerr, and M. M. Mata, 2014: Assessment of the representation of Antarctic Bottom Water properties in the ECCO2 reanalysis. *Ocean Science*, **10**, 923-946, <http://dx.doi.org/10.5194/os-10-923-2014>
- Backeberg, B. C., F. Counillon, J. A. Johannessen, and M. I. Pujol, 2014: Assimilating along-track SLA data using the EnOI in an eddy resolving model of the Agulhas system. *Ocean Dynamics*, **64**, 1121-1136, <http://dx.doi.org/10.1007/s10236-014-0717-6>
- Banerjee, P. and S. Prasanna Kumar, 2014: Dust-induced episodic phytoplankton blooms in the Arabian Sea during winter monsoon. *Journal of Geophysical Research: Oceans*, **119**, 7123-7138, <http://dx.doi.org/10.1002/2014JC010304>
- Baranowski, D. B., P. J. Flatau, S. Chen, and P. G. Black, 2014: Upper ocean response to the passage of two sequential typhoons. *Ocean Science*, **10**, 559-570, <http://dx.doi.org/10.5194/os-10-559-2014>
- Baringer, M., G. D. McCarthy, J. Willis, M. Lankhorst, D. A. Smeed, U. Send, D. Rayner, W. E. Johns, C. S. Meinen, S. A. Cunningham, T. Kanzow, E. Frajka-Williams, and J. Marotzke, 2014: Meridional overturning circulation observations in the North Atlantic Ocean in State of the Climate in 2013. *Bulletin of the American Meteorological Society*, **95**, S1-S279, <http://dx.doi.org/10.1175/2014BAMSStateoftheClimate.1>
- Barth, A., J. M. Beckers, C. Troupin, A. Alvera-Azcárate, and L. Vandenbulcke, 2014: divand-1.0: n-dimensional variational data analysis for ocean observations. *Geosci. Model Dev.*, **7**, 225-241, <https://doi.org/10.5194/gmd-7-225-2014>
- Benetti, M., G. Reverdin, C. Pierre, L. Merlivat, C. Risi, H. C. Steen-Larsen, and F. Vimeux, 2014: Deuterium excess in marine water vapor: Dependency on relative humidity and surface wind speed during evaporation. *Journal of Geophysical Research: Atmospheres*, **119**, 584-593, <http://dx.doi.org/10.1002/2013JD020535>
- Benshila, R., F. Durand, S. Masson, R. Bourdallé-Badie, C. de Boyer Montégut, F. Papa, and G. Madec, 2014: The upper Bay of Bengal salinity structure in a high-resolution model. *Ocean Modelling*, **74**, 36-52, <http://dx.doi.org/10.1016/j.ocemod.2013.12.001>
- Benthuisen, J., M. Feng, and L. Zhong, 2014: Spatial patterns of warming off Western Australia during the 2011 Ningaloo Niño: Quantifying impacts of remote and local forcing. *Continental Shelf Research*, **91**, 232-246, <http://dx.doi.org/10.1016/j.csr.2014.09.014>
- Bingham, F. M., J. Busecke, A. L. Gordon, C. F. Giulivi, and Z. Li, 2014: The North Atlantic subtropical surface salinity maximum as observed by Aquarius. *Journal of Geophysical Research: Oceans*, **119**, 7741-7755, <http://dx.doi.org/10.1002/2014JC009825>
- Bittig, H. C., B. Fiedler, R. Scholz, G. Krahnemann, and A. Körtzinger, 2014: Time response of oxygen optodes on profiling platforms and its dependence on flow speed and temperature. *Limnology and Oceanography: Methods*, **12**, 617-636,

<http://dx.doi.org/10.4319/lom.2014.12.617>

- Blockley, E. W., M. J. Martin, A. J. McLaren, A. G. Ryan, J. Waters, D. J. Lea, I. Mirouze, K. A. Peterson, A. Sellar, and D. Storkey, 2014: Recent development of the Met Office operational ocean forecasting system: an overview and assessment of the new Global FOAM forecasts. *Geosci. Model Dev.*, **7**, 2613-2638, <http://www.geosci-model-dev.net/7/2613/2014/>
- Boutin, J., N. Martin, G. Reverdin, S. Morisset, X. Yin, L. Centurioni, and N. Reul, 2014: Sea surface salinity under rain cells: SMOS satellite and in situ drifters observations. *Journal of Geophysical Research: Oceans*, **119**, 5533-5545, <http://dx.doi.org/10.1002/2014JC010070>
- Bowen, M., P. Sutton, and D. Roemmich, 2014: Estimating mean dynamic topography in boundary currents and the use of Argo trajectories. *Journal of Geophysical Research: Oceans*, **119**, 8422-8437, <http://dx.doi.org/10.1002/2014JC010281>
- Boyer, T., J. Antonov, J. R. Reagan, C. Schmid, and R. A. Locarnini, 2014: Subsurface salinity in State of the Climate in 2013, Blunden, Jessica and Arndt, Derek S. Eds. *Bulletin of the American Meteorological Society*, **95**, S1-S279, <http://dx.doi.org/10.1175/2014BAMSStateoftheClimate.1>
- Bryden, H. L., B. A. King, G. D. McCarthy, and E. L. McDonagh, 2014: Impact of a 30% reduction in Atlantic meridional overturning during 2009–2010. *Ocean Science*, **10**, 683-691, <http://dx.doi.org/10.5194/os-10-683-2014>
- Buckingham, C. E., P. C. Cornillon, F. Schloesser, and K. M. Obenour, 2014: Global observations of quasi-zonal bands in microwave sea surface temperature. *Journal of Geophysical Research: Oceans*, **119**, 4840-4866, <http://dx.doi.org/10.1002/2014JC010088>
- Buckley, M. W., R. M. Ponte, G. Forget, and P. Heimbach, 2014: Low-Frequency SST and Upper-Ocean Heat Content Variability in the North Atlantic. *Journal of Climate*, **27**, 4996-5018, <http://dx.doi.org/10.1175/JCLI-D-13-00316.1>
- Busecke, J., A. L. Gordon, Z. Li, F. M. Bingham, and J. Font, 2014: Subtropical surface layer salinity budget and the role of mesoscale turbulence. *Journal of Geophysical Research: Oceans*, **119**, 4124-4140, <http://dx.doi.org/10.1002/2013JC009715>
- Carrier, M. J., H. Ngodock, S. Smith, G. Jacobs, P. Muscarella, T. Ozgokmen, B. Haus, and B. Lipphardt, 2014: Impact of Assimilating Ocean Velocity Observations Inferred from Lagrangian Drifter Data Using the NCOM-4DVAR. *Monthly Weather Review*, **142**, 1509-1524, <http://dx.doi.org/10.1175/MWR-D-13-00236.1>
- Castelao, R. M., 2014: Mesoscale eddies in the South Atlantic Bight and the Gulf Stream Recirculation region: Vertical structure. *Journal of Geophysical Research: Oceans*, **119**, 2048-2065, <http://dx.doi.org/10.1002/2014JC009796>
- Castro, S. L., G. A. Wick, and J. J. H. Buck, 2014: Comparison of diurnal warming estimates from unpumped Argo data and SEVIRI satellite observations. *Remote Sensing of Environment*, **140**, 789-799, <http://dx.doi.org/10.1016/j.rse.2013.08.042>
- Cazenave, A., H.-B. Dieng, B. Meyssignac, K. von Schuckmann, B. Decharme, and E. Berthier, 2014: The rate of sea-level rise. *Nature Clim. Change*, **4**, 358-361, <http://dx.doi.org/10.1038/nclimate2159>
- Chaitanya, A. V. S., M. Lengaigne, J. Vialard, V. V. Gopalakrishna, F. Durand, C. Kranthikumar,

- S. Amritash, V. Suneel, F. Papa, and M. Ravichandran, 2014: Salinity Measurements Collected by Fishermen Reveal a "River in the Sea" Flowing Along the Eastern Coast of India. *Bulletin of the American Meteorological Society*, **95**, 1897-1908, <http://dx.doi.org/10.1175/BAMS-D-12-00243.1>
- Chakraborty, A., R. Sharma, R. Kumar, and S. Basu, 2014: A SEEK filter assimilation of sea surface salinity from Aquarius in an OGCM: Implication for surface dynamics and thermohaline structure. *Journal of Geophysical Research: Oceans*, **119**, 4777-4796, <http://dx.doi.org/10.1002/2014JC009984>
- Chang, C. H., N. C. Johnson, and N. Cassar, 2014: Neural network-based estimates of Southern Ocean net community production from in situ O₂ / Ar and satellite observation: a methodological study. *Biogeosciences*, **11**, 3279-3297, <http://dx.doi.org/10.5194/bg-11-3279-2014>
- Chang, Y.-S., 2014: Basin patterns of upper ocean warming for 1993–2009. *Ocean Dynamics*, **64**, 823-832, <http://dx.doi.org/10.1007/s10236-014-0722-9>
- Chang, Y.-S., G. A. Vecchi, A. Rosati, S. Zhang, and X. Yang, 2014: Comparison of global objective analyzed T-S fields of the upper ocean for 2008–2011. *Journal of Marine Systems*, **137**, 13-20, <http://dx.doi.org/10.1016/j.jmarsys.2014.04.001>
- Chen, G., H. Zhang, and X. Wang, 2014: Annual amphidromic columns of sea temperature in global oceans from Argo data. *Geophysical Research Letters*, **41**, 2014GL059430, <http://dx.doi.org/10.1002/2014GL059430>
- Chen, J., R. Zhang, H. Wang, Y. An, L. Wang, and G. Wang, 2014: An analysis on the error structure and mechanism of soil moisture and ocean salinity remotely sensed sea surface salinity products. *Acta Oceanologica Sinica*, **33**, 48-55, <http://dx.doi.org/10.1007/s13131-014-0427-4>
- Chen, J., R. Zhang, H. Wang, J. Li, M. Hong, and X. Li, 2014: Decadal modes of sea surface salinity and the water cycle in the tropical Pacific Ocean: The anomalous late 1990s. *Deep Sea Research Part I: Oceanographic Research Papers*, **84**, 38-49, <http://dx.doi.org/10.1016/j.dsr.2013.10.005>
- Chen, K., R. He, B. S. Powell, G. G. Gawarkiewicz, A. M. Moore, and H. G. Arango, 2014: Data assimilative modeling investigation of Gulf Stream Warm Core Ring interaction with continental shelf and slope circulation. *Journal of Geophysical Research: Oceans*, **119**, 5968-5991, <http://dx.doi.org/10.1002/2014JC009898>
- Cheng, L. and J. Zhu, 2014: Uncertainties of the Ocean Heat Content Estimation Induced by Insufficient Vertical Resolution of Historical Ocean Subsurface Observations. *Journal of Atmospheric and Oceanic Technology*, **31**, 1383-1396, <http://dx.doi.org/10.1175/JTECH-D-13-00220.1>
- Cheng, L. and J. Zhu, 2014: Artifacts in variations of ocean heat content induced by the observation system changes. *Geophysical Research Letters*, **41**, 2014GL061881, <http://dx.doi.org/10.1002/2014GL061881>
- Cheng, L., J. Zhu, R. Cowley, T. Boyer, and S. Wijffels, 2014: Time, Probe Type, and Temperature Variable Bias Corrections to Historical Expendable Bathythermograph Observations. *Journal of Atmospheric and Oceanic Technology*, **31**, 1793-1825, <http://dx.doi.org/10.1175/JTECH-D-13-00197.1>
- Chérubin, L. M., 2014: High-resolution simulation of the circulation in the Bahamas and

- Turks and Caicos Archipelagos. *Progress in Oceanography*, **127**, 21-46, <http://dx.doi.org/10.1016/j.pocean.2014.05.006>
- Chidichimo, M. P., K. A. Donohue, D. R. Watts, and K. L. Tracey, 2014: Baroclinic Transport Time Series of the Antarctic Circumpolar Current Measured in Drake Passage. *Journal of Physical Oceanography*, **44**, 1829-1853, <http://dx.doi.org/10.1175/JPO-D-13-071.1>
- Chiswell, S. M. and G. J. Rickard, 2014: Evaluation of Bluelink hindcast BRAN 3.5 at surface and 1000m. *Ocean Modelling*, **83**, 63-81, <http://dx.doi.org/10.1016/j.ocemod.2014.08.002>
- Chu, X., H. Xue, Y. Qi, G. Chen, Q. Mao, D. Wang, and F. Chai, 2014: An exceptional anticyclonic eddy in the South China Sea in 2010. *Journal of Geophysical Research: Oceans*, **119**, 881-897, <http://dx.doi.org/10.1002/2013JC009314>
- Cochran, J. K., 2014: Oceanographic Sampling and Measurements. *Reference Module in Earth Systems and Environmental Sciences*, Elsevier, <https://doi.org/10.1016/B978-0-12-409548-9.09149-1>.
- Costoya, X., M. deCastro, and M. Gómez-Gesteira, 2014: Thermohaline trends in the Bay of Biscay from Argo floats over the decade 2004–2013. *Journal of Marine Systems*, **139**, 159-165, <http://dx.doi.org/10.1016/j.jmarsys.2014.06.001>
- Cummings, J. A. and O. M. Smedstad, 2014: Ocean Data Impacts in Global HYCOM. *Journal of Atmospheric and Oceanic Technology*, **31**, 1771-1791, <http://dx.doi.org/10.1175/JTECH-D-14-00011.1>
- Da-Allada, C. Y., G. Alory, Y. du Penhoat, J. Jouanno, M. N. Hounkonnou, and E. Kestenare, 2014: Causes for the recent increase in sea surface salinity in the north-eastern Gulf of Guinea. *African Journal of Marine Science*, **36**, 197-205, <http://dx.doi.org/10.2989/1814232X.2014.927398>
- Da-Allada, C. Y., Y. du Penhoat, J. Jouanno, G. Alory, and N. M. Hounkonnou, 2014: Modeled mixed-layer salinity balance in the Gulf of Guinea: seasonal and interannual variability. *Ocean Dynamics*, **64**, 1783-1802, <http://dx.doi.org/10.1007/s10236-014-0775-9>
- D'Addezio, J. M. and F. M. Bingham, 2014: A subtropical North Atlantic regional atmospheric moisture budget. *Journal of Geophysical Research: Oceans*, **119**, 8731-8748, <http://dx.doi.org/10.1002/2014JC010300>
- Dall'Olmo, G. and K. A. Mork, 2014: Carbon export by small particles in the Norwegian Sea. *Geophysical Research Letters*, **41**, 2921-2927, <http://dx.doi.org/10.1002/2014GL059244>
- Danielson, S. L., T. J. Weingartner, K. S. Hedstrom, K. Aagaard, R. Woodgate, E. Curchitser, and P. J. Stabeno, 2014: Coupled wind-forced controls of the Bering–Chukchi shelf circulation and the Bering Strait throughflow: Ekman transport, continental shelf waves, and variations of the Pacific–Arctic sea surface height gradient. *Progress in Oceanography*, **125**, 40-61, <http://dx.doi.org/10.1016/j.pocean.2014.04.006>
- D'Asaro, E. A., P. G. Black, L. R. Centurioni, Y. T. Chang, S. S. Chen, R. C. Foster, H. C. Graber, P. Harr, V. Hormann, R. C. Lien, I. I. Lin, T. B. Sanford, T. Y. Tang, and C. C. Wu, 2014: Impact of Typhoons on the Ocean in the Pacific. *Bulletin of the American Meteorological Society*, **95**, 1405-1418,

- <http://dx.doi.org/10.1175/BAMS-D-12-00104.1>
- D'Asaro, E. A., J. Thomson, A. Y. Shcherbina, R. R. Harcourt, M. F. Cronin, M. A. Hemer, and B. Fox-Kemper, 2014: Quantifying upper ocean turbulence driven by surface waves. *Geophysical Research Letters*, **41**, 102-107, <http://dx.doi.org/10.1002/2013GL058193>
- de Boyer Montégut, C., F. Durand, R. Bourdallé-Badie, and B. Blanke, 2014: Role of fronts in the formation of Arabian Sea barrier layers during summer monsoon. *Ocean Dynamics*, **64**, 809-822, <http://dx.doi.org/10.1007/s10236-014-0716-7>
- Delcroix, T., M.-H. Radenac, S. Cravatte, G. Alory, L. Gourdeau, F. Léger, A. Singh, and D. Varillon, 2014: Sea surface temperature and salinity seasonal changes in the western Solomon and Bismarck Seas. *Journal of Geophysical Research: Oceans*, **119**, 2642-2657, <http://dx.doi.org/10.1002/2013JC009733>
- Dencausse, G., R. Morrow, M. Rogé, and S. Fleury, 2014: Lateral stirring of large-scale tracer fields by altimetry. *Ocean Dynamics*, **64**, 61-78, <http://dx.doi.org/10.1007/s10236-013-0671-8>
- Deng, Z., 2014: The Dependence of Global Ocean Modeling on Background Diapycnal Mixing. *The Scientific World Journal*, **2014**, 7, <http://dx.doi.org/10.1155/2014/838701>
- Deng, Z. and T. Yu, 2014: Application of Argo-derived background diapycnal mixing in HYCOM. *Journal of Marine Systems*, **137**, 1-12, <http://dx.doi.org/10.1016/j.jmarsys.2014.04.005>
- Deng, Z., T. Yu, S. Shi, J. Jin, and K. Wu, 2014: The Global Distribution of Diapycnal Mixing and Mixing Coefficient Tensor in the Upper 2000m Ocean from Argo Observations. *Marine Geodesy*, **37**, 337-353, <http://dx.doi.org/10.1080/01490419.2013.873099>
- Desbruyères, D. G., E. L. McDonagh, B. A. King, F. K. Garry, A. T. Blaker, B. I. Moat, and H. Mercier, 2014: Full-depth temperature trends in the northeastern Atlantic through the early 21st century. *Geophysical Research Letters*, **41**, 7971-7979, <http://dx.doi.org/10.1002/2014GL061844>
- Dieng, H. B., A. Cazenave, B. Meyssignac, O. Henry, K. von Schuckmann, H. Palanisamy, and J.-M. Lemoine, 2014: Effect of La Nina on The Global Mean Sea Level And North Pacific Ocean Mass Over 2005-2011. *Journal of Geodetic Science*, **4**, <http://dx.doi.org/10.2478/jogs-2014-0003>
- Domingues, R., G. Goni, S. Swart, and S. Dong, 2014: Wind forced variability of the Antarctic Circumpolar Current south of Africa between 1993 and 2010. *Journal of Geophysical Research: Oceans*, **119**, 1123-1145, <http://dx.doi.org/10.1002/2013JC008908>
- Dong, C., J. C. McWilliams, Y. Liu, and D. Chen, 2014: Global heat and salt transports by eddy movement. *Nat Commun*, **5**, <http://dx.doi.org/10.1038/ncomms4294>
- Dong, S., M. O. Baringer, G. J. Goni, C. S. Meinen, and S. L. Garzoli (2014), Seasonal variations in the South Atlantic Meridional Overturning Circulation from observations and numerical models, *Geophys. Res. Lett.*, **41**(13), 4611-4618, doi: <https://doi.org/10.1002/2014GL060428>.
- D'Ortenzio, F., H. Lavigne, F. Besson, H. Claustre, L. Coppola, N. Garcia, A. Laës-Huon, S. Le Reste, D. Malardé, C. Migon, P. Morin, L. Mortier, A. Poteau, L. Prieur, P. Raimbault, and P. Testor, 2014: Observing mixed layer depth, nitrate and chlorophyll concentrations in the northwestern Mediterranean: A combined satellite and NO3 profiling floats experiment. *Geophysical Research Letters*, **41**, 2014GL061020,

- <http://dx.doi.org/10.1002/2014GL061020>
- Dotto, T. S., R. Kerr, M. M. Mata, M. Azaneu, I. Wainer, E. Fahrbach, and G. Rohardt, 2014: Assessment of the structure and variability of Weddell Sea water masses in distinct ocean reanalysis products. *Ocean Science*, **10**, 523-546, <http://dx.doi.org/10.5194/os-10-523-2014>
- Drobinski, P., V. Ducrocq, P. Alpert, E. Anagnostou, K. Béranger, M. Borga, I. Braud, A. Chanzy, S. Davolio, G. Delrieu, C. Estournel, N. F. Boubrahmi, J. Font, V. Grubišić, S. Gualdi, V. Homar, B. Ivančan-Picek, C. Kottmeier, V. Kotroni, K. Lagouvardos, P. Lionello, M. C. Llasat, W. Ludwig, C. Lutoff, A. Mariotti, E. Richard, R. Romero, R. Rotunno, O. Roussot, I. Ruin, S. Somot, I. Taupier-Letage, J. Tintore, R. Uijlenhoet, and H. Wernli, 2014: HyMeX: A 10-Year Multidisciplinary Program on the Mediterranean Water Cycle. *Bulletin of the American Meteorological Society*, **95**, 1063-1082, <http://dx.doi.org/10.1175/BAMS-D-12-00242.1>
- Drucker, R. and S. C. Riser, 2014: Validation of Aquarius sea surface salinity with Argo: Analysis of error due to depth of measurement and vertical salinity stratification. *Journal of Geophysical Research: Oceans*, **119**, 4626-4637, <http://dx.doi.org/10.1002/2014JC010045>
- Drushka, K., S. T. Gille, and J. Sprintall, 2014: The diurnal salinity cycle in the tropics. *Journal of Geophysical Research: Oceans*, **119**, 5874-5890, <http://dx.doi.org/10.1002/2014JC009924>
- Drushka, K., J. Sprintall, and S. T. Gille, 2014: Subseasonal variations in salinity and barrier-layer thickness in the eastern equatorial Indian Ocean. *Journal of Geophysical Research: Oceans*, **119**, 805-823, <http://dx.doi.org/10.1002/2013JC009422>
- Dufois, F., N. J. Hardman-Mountford, J. Greenwood, A. J. Richardson, M. Feng, S. Herbette, and R. Matear, 2014: Impact of eddies on surface chlorophyll in the South Indian Ocean. *Journal of Geophysical Research: Oceans*, **119**, 8061-8077, <http://dx.doi.org/10.1002/2014JC010164>
- Durack, P. J., P. J. Gleckler, F. W. Landerer, and K. E. Taylor, 2014: Quantifying underestimates of long-term upper-ocean warming. *Nature Clim. Change*, **4**, 999-1005, <http://dx.doi.org/10.1038/nclimate2389>
- Dushaw, B. D. and D. Menemenlis, 2014: Antipodal acoustic thermometry: 1960, 2004. *Deep Sea Research Part I: Oceanographic Research Papers*, **86**, 1-20, <http://dx.doi.org/10.1016/j.dsr.2013.12.008>
- Elipot, S., E. Frajka-Williams, C. W. Hughes, and J. K. Willis, 2014: The Observed North Atlantic Meridional Overturning Circulation: Its Meridional Coherence and Ocean Bottom Pressure. *Journal of Physical Oceanography*, **44**, 517-537, <http://dx.doi.org/10.1175/JPO-D-13-026.1>
- Emerson, S. R. and S. Bushinsky, 2014: Oxygen Concentrations and Biological Fluxes in the Open Ocean. *Oceanography*, **27**, 168-171, <http://dx.doi.org/10.5670/oceanog.2014.20>
- Evans, D. G., J. D. Zika, A. C. Naveira Garabato, and A. J. G. Nurser, 2014: The imprint of Southern Ocean overturning on seasonal water mass variability in Drake Passage. *Journal of Geophysical Research: Oceans*, **119**, 7987-8010, <http://dx.doi.org/10.1002/2014JC010097>

- Everett, J. D., M. E. Baird, M. Roughan, I. M. Suthers, and M. A. Doblin, 2014: Relative impact of seasonal and oceanographic drivers on surface chlorophyll a along a Western Boundary Current. *Progress in Oceanography*, **120**, 340-351, <http://dx.doi.org/10.1016/j.pocean.2013.10.016>
- Fay, A. R. and G. A. McKinley, 2014: Global open-ocean biomes: mean and temporal variability. *Earth Syst. Sci. Data*, **6**, 273-284, <http://dx.doi.org/10.5194/essd-6-273-2014>
- Felton, C. S., B. Subrahmanyam, V. S. N. Murty, and J. F. Shriver, 2014: Estimation of the barrier layer thickness in the Indian Ocean using Aquarius Salinity. *Journal of Geophysical Research: Oceans*, **119**, 4200-4213, <http://dx.doi.org/10.1002/2013JC009759>
- Filyushkin, B. N., M. A. Sokolovskiy, N. G. Kozhelupova, and I. M. Vagina, 2014: Lagrangian methods for observation of intrathermocline eddies in ocean. *Oceanology*, **54**, 688-694, <http://dx.doi.org/10.1134/S0001437014050051>
- Firing, Y. L., T. K. Chereskin, D. R. Watts, K. L. Tracey, and C. Provost, 2014: Computation of Geostrophic Streamfunction, Its Derivatives, and Error Estimates from an Array of CPIES in Drake Passage. *Journal of Atmospheric and Oceanic Technology*, **31**, 656-680, <http://dx.doi.org/10.1175/JTECH-D-13-00142.1>
- Frajka-Williams, E., P. B. Rhines, and C. C. Eriksen, 2014: Horizontal Stratification during Deep Convection in the Labrador Sea. *Journal of Physical Oceanography*, **44**, 220-228, <http://dx.doi.org/10.1175/JPO-D-13-069.1>
- Friedrich, J., F. Janssen, D. Aleynik, H. W. Bange, N. Boltacheva, M. N. Çagatay, A. W. Dale, G. Etiope, Z. Erdem, M. Geraga, A. Gilli, M. T. Gomoiu, P. O. J. Hall, D. Hansson, Y. He, M. Holtappels, M. K. Kirf, M. Kononets, S. Konovalov, A. Lichtschlag, D. M. Livingstone, G. Marinaro, S. Mazlumyan, S. Naeher, R. P. North, G. Papatheodorou, O. Pfannkuche, R. Prien, G. Rehder, C. J. Schubert, T. Soltwedel, S. Sommer, H. Stahl, E. V. Stanev, A. Teaca, A. Tengberg, C. Waldmann, B. Wehrli, and F. Wenzhöfer, 2014: Investigating hypoxia in aquatic environments: diverse approaches to addressing a complex phenomenon. *Biogeosciences*, **11**, 1215-1259, <http://dx.doi.org/10.5194/bg-11-1215-2014>
- Fu, H., W. Li, X. Zhang, G. Han, X. Wang, X. Wu, and L. Zhang, 2014: A study of transport and impact strength of Fukushima nuclear pollutants in the north pacific surface. *Journal of Ocean University of China*, **13**, 183-190, <http://dx.doi.org/10.1007/s11802-014-1942-9>
- Fu, H., X. Wang, P. C. Chu, X. Zhang, G. Han, and W. Li, 2014: Tropical cyclone footprint in the ocean mixed layer observed by Argo in the Northwest Pacific. *Journal of Geophysical Research: Oceans*, **119**, 8078-8092, <http://dx.doi.org/10.1002/2014JC010316>
- Gačić, M., G. Civitarese, V. Kovačević, L. Ursella, M. Bensi, M. Menna, V. Cardin, P. M. Poulain, S. Cosoli, G. Notarstefano, and C. Pizzi, 2014: Extreme winter 2012 in the Adriatic: an example of climatic effect on the BiOS rhythm. *Ocean Science*, **10**, 513-522, <http://dx.doi.org/10.5194/os-10-513-2014>
- Ganachaud, A., S. Cravatte, A. Melet, A. Schiller, N. J. Holbrook, B. M. Sloyan, M. J. Widlansky, M. Bowen, J. Verron, P. Wiles, K. Ridgway, P. Sutton, J. Sprintall, C. Steinberg, G.

- Brassington, W. Cai, R. Davis, F. Gasparin, L. Gourdeau, T. Hasegawa, W. Kessler, C. Maes, K. Takahashi, K. J. Richards, and U. Send, 2014: The Southwest Pacific Ocean circulation and climate experiment (SPICE). *Journal of Geophysical Research: Oceans*, **119**, 7660-7686, <http://dx.doi.org/10.1002/2013JC009678>
- Gao, L., W. Yu, T. Li, T. R. Adi, S. Budi, Triyono, and M. Salvienty, 2014: Rainfall asymmetry in the southeast Indian Ocean between positive and negative IODs and its local impact. *Atmospheric Science Letters*, **15**, 127-133, <http://dx.doi.org/10.1002/asl2.479>
- Gao, S., T. Qu, and X. Nie, 2014: Mixed layer salinity budget in the tropical Pacific Ocean estimated by a global GCM. *Journal of Geophysical Research: Oceans*, **119**, 8255-8270, <http://dx.doi.org/10.1002/2014JC010336>
- Gary, S. F., M. S. Lozier, Y. O. Kwon, and J. J. Park, 2014: The Fate of North Atlantic Subtropical Mode Water in the FLAME Model. *Journal of Physical Oceanography*, **44**, 1354-1371, <http://dx.doi.org/10.1175/JPO-D-13-0202.1>
- Giglio, D. and D. Roemmich, 2014: Climatological monthly heat and freshwater flux estimates on a global scale from Argo. *Journal of Geophysical Research: Oceans*, **119**, 6884-6899, <http://dx.doi.org/10.1002/2014JC010083>
- Girishkumar, M. S., K. Suprit, J. Chiranjivi, T. V. S. Udaya Bhaskar, M. Ravichandran, R. V. Shesu, and E. Pattabhi Rama Rao, 2014: Observed oceanic response to tropical cyclone Jal from a moored buoy in the south-western Bay of Bengal. *Ocean Dynamics*, **64**, 325-335, <http://dx.doi.org/10.1007/s10236-014-0689-6>
- Gnanadesikan, A., J. P. Dunne, and R. Msadek, 2014: Connecting Atlantic temperature variability and biological cycling in two earth system models. *Journal of Marine Systems*, **133**, 39-54, <http://dx.doi.org/10.1016/j.jmarsys.2013.10.003>
- Goes, M., I. Wainer, and N. Signorelli, 2014: Investigation of the causes of historical changes in the subsurface salinity minimum of the South Atlantic. *Journal of Geophysical Research: Oceans*, **119**, 5654-5675, <http://dx.doi.org/10.1002/2014JC009812>
- Gordon, A. L. and C. F. Giulivi, 2014: Ocean eddy freshwater flux convergence into the North Atlantic subtropics. *Journal of Geophysical Research: Oceans*, **119**, 3327-3335, <http://dx.doi.org/10.1002/2013JC009596>
- Gray, A. R. and S. C. Riser, 2014: A Global Analysis of Sverdrup Balance Using Absolute Geostrophic Velocities from Argo. *Journal of Physical Oceanography*, **44**, 1213-1229, <http://dx.doi.org/10.1175/JPO-D-12-0206.1>
- Grenier, M., C. Jeandel, and S. Cravatte, 2014: From the subtropics to the equator in the Southwest Pacific: Continental material fluxes quantified using neodymium data along modeled thermocline water pathways. *Journal of Geophysical Research: Oceans*, **119**, 3948-3966, <http://dx.doi.org/10.1002/2013JC009670>
- Griffies, S. M., J. Yin, P. J. Durack, P. Goddard, S. C. Bates, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, C. W. Böning, A. Bozec, E. Chassignet, G. Danabasoglu, S. Danilov, C. M. Domingues, H. Drange, R. Farneti, E. Fernandez, R. J. Greatbatch, D. M. Holland, M. Illicak, W. G. Large, K. Lorabacher, J. Lu, S. J. Marsland, A. Mishra, A. J. George Nurser, D. Salas y Mélia, J. B. Palter, B. L. Samuels, J. Schröter, F. U. Schwarzkopf, D. Sidorenko, A. M. Treguier, Y.-h. Tseng, H. Tsujino, P. Uotila, S. Valcke, A. Voltaire, Q. Wang, M. Winton, and X. Zhang, 2014: An assessment of global and regional sea level for years 1993–2007 in a suite of interannual CORE-II simulations. *Ocean*

- Modelling*, **78**, 35-89, <http://dx.doi.org/10.1016/j.ocemod.2014.03.004>
- Grist, J. P., S. A. Josey, L. Boehme, M. P. Meredith, K. L. Laidre, M. P. Heide-Jørgensen, K. M. Kovacs, C. Lydersen, F. J. M. Davidson, G. B. Stenson, M. O. Hammill, R. Marsh, and A. C. Coward, 2014: Seasonal variability of the warm Atlantic water layer in the vicinity of the Greenland shelf break. *Geophysical Research Letters*, **41**, 2014GL062051, <http://dx.doi.org/10.1002/2014GL062051>
- Grist, J. P., S. A. Josey, R. Marsh, Y.-O. Kwon, R. J. Bingham, and A. T. Blaker, 2014: The Surface-Forced Overturning of the North Atlantic: Estimates from Modern Era Atmospheric Reanalysis Datasets. *Journal of Climate*, **27**, 3596-3618, <http://dx.doi.org/10.1175/JCLI-D-13-00070.1>
- Grodsky, S. A., J. A. Carton, and F. O. Bryan, 2014: A curious local surface salinity maximum in the northwestern tropical Atlantic. *Journal of Geophysical Research: Oceans*, **119**, 484-495, <http://dx.doi.org/10.1002/2013JC009450>
- Guan, B., T. Lee, D. J. Halkides, and D. E. Waliser, 2014: Aquarius surface salinity and the Madden-Julian Oscillation: The role of salinity in surface layer density and potential energy. *Geophysical Research Letters*, **41**, 2858-2869, <http://dx.doi.org/10.1002/2014GL059704>
- Guerrero, R. A., A. R. Piola, H. Fenco, R. P. Matano, V. Combes, Y. Chao, C. James, E. D. Palma, M. Saraceno, and P. T. Strub, 2014: The salinity signature of the cross-shelf exchanges in the Southwestern Atlantic Ocean: Satellite observations. *Journal of Geophysical Research: Oceans*, **119**, 7794-7810, <http://dx.doi.org/10.1002/2014JC010113>
- Gueye, M. B., A. Niang, S. Arnault, S. Thiria, and M. Crépon, 2014: Neural approach to inverting complex system: Application to ocean salinity profile estimation from surface parameters. *Computers & Geosciences*, **72**, 201-209, <http://dx.doi.org/10.1016/j.cageo.2014.07.012>
- Hackert, E., A. J. Busalacchi, and J. Ballabrera-Poy, 2014: Impact of Aquarius sea surface salinity observations on coupled forecasts for the tropical Indo-Pacific Ocean. *Journal of Geophysical Research: Oceans*, **119**, 4045-4067, <http://dx.doi.org/10.1002/2013JC009697>
- Halo, I., P. Penven, B. Backeberg, I. Ansorge, F. Shillington, and R. Roman, 2014: Mesoscale eddy variability in the southern extension of the East Madagascar Current: Seasonal cycle, energy conversion terms, and eddy mean properties. *Journal of Geophysical Research: Oceans*, **119**, 7324-7356, <http://dx.doi.org/10.1002/2014JC009820>
- Ham, Y.-G., M. M. Rienecker, M. J. Suarez, Y. Vikhliav, B. Zhao, J. Marshak, G. Vernieres, and S. D. Schubert, 2014: Decadal prediction skill in the GEOS-5 forecast system. *Climate Dynamics*, **42**, 1-20, <http://dx.doi.org/10.1007/s00382-013-1858-x>
- Ham, Y.-G., S. Schubert, Y. Vikhliav, and M. J. Suarez, 2014: An assessment of the ENSO forecast skill of GEOS-5 system. *Climate Dynamics*, **43**, 2415-2430, <http://dx.doi.org/10.1007/s00382-014-2063-2>
- Hartman, S. E., M. C. Hartman, D. J. Hydes, Z.-P. Jiang, D. Smythe-Wright, and C. González-Pola, 2014: Seasonal and inter-annual variability in nutrient supply in relation to mixing in the Bay of Biscay. *Deep Sea Research Part II: Topical Studies in Oceanography*, **106**, 68-75, <http://dx.doi.org/10.1016/j.dsr2.2013.09.032>

- Hasson, A., T. Delcroix, J. Boutin, R. Dussin, and J. Ballabrera-Poy, 2014: Analyzing the 2010–2011 La Niña signature in the tropical Pacific sea surface salinity using in situ data, SMOS observations, and a numerical simulation. *Journal of Geophysical Research: Oceans*, **119**, 3855–3867, <http://dx.doi.org/10.1002/2013JC009388>
- Hautala, S. L., E. A. Solomon, H. P. Johnson, R. N. Harris, and U. K. Miller, 2014: Dissociation of Cascadia margin gas hydrates in response to contemporary ocean warming. *Geophysical Research Letters*, **41**, 8486–8494, <http://dx.doi.org/10.1002/2014GL061606>
- He, Z., K. R. Thompson, H. Ritchie, Y. Lu, and F. Dupont, 2014: Reducing Drift and Bias of a Global Ocean Model by Frequency-Dependent Nudging. *Atmosphere-Ocean*, **52**, 242–255, <http://dx.doi.org/10.1080/07055900.2014.922240>
- Hennon, T. D., S. C. Riser, and M. H. Alford, 2014: Observations of Internal Gravity Waves by Argo Floats. *Journal of Physical Oceanography*, **44**, 2370–2386, <http://dx.doi.org/10.1175/JPO-D-13-0222.1>
- Hernandez, O., J. Boutin, N. Kolodziejczyk, G. Reverdin, N. Martin, F. Gaillard, N. Reul, and J. L. Vergely, 2014: SMOS salinity in the subtropical North Atlantic salinity maximum: 1. Comparison with Aquarius and in situ salinity. *Journal of Geophysical Research: Oceans*, **119**, 8878–8896, <http://dx.doi.org/10.1002/2013JC009610>
- Hjelmervik, K. and K. Hjelmervik, 2014: Time-calibrated estimates of oceanographic profiles using empirical orthogonal functions and clustering. *Ocean Dynamics*, **64**, 655–665, <http://dx.doi.org/10.1007/s10236-014-0704-y>
- Hoareau, N., M. Umberto, J. Martínez, A. Turiel, and J. Ballabrera-Poy, 2014: On the potential of data assimilation to generate SMOS-Level 4 maps of sea surface salinity. *Remote Sensing of Environment*, **146**, 188–200, <http://dx.doi.org/10.1016/j.rse.2013.10.005>
- Holte, J., F. Straneo, J. T. Farrar, and R. A. Weller, 2014: Heat and salinity budgets at the Stratus mooring in the southeast Pacific. *Journal of Geophysical Research: Oceans*, **119**, 8162–8176, <http://dx.doi.org/10.1002/2014JC010256>
- Huang, C. J., F. Qiao, and D. Dai, 2014: Evaluating CMIP5 simulations of mixed layer depth during summer. *Journal of Geophysical Research: Oceans*, **119**, 2568–2582, <http://dx.doi.org/10.1002/2013JC009535>
- Hummels, R., M. Dengler, P. Brandt, and M. Schlundt, 2014: Diapycnal heat flux and mixed layer heat budget within the Atlantic Cold Tongue. *Climate Dynamics*, **43**, 3179–3199, <http://dx.doi.org/10.1007/s00382-014-2339-6>
- Ilicak, M., A. J. Adcroft, and S. Legg, 2014: A framework for parameterization of heterogeneous ocean convection. *Ocean Modelling*, **82**, 1–14, <http://dx.doi.org/10.1016/j.ocemod.2014.07.002>
- Illig, S., B. Dewitte, K. Goubanova, G. Cambon, J. Boucharel, F. Monetti, C. Romero, S. Purca, and R. Flores, 2014: Forcing mechanisms of intraseasonal SST variability off central Peru in 2000–2008. *Journal of Geophysical Research: Oceans*, **119**, 3548–3573, <http://dx.doi.org/10.1002/2013JC009779>
- Isachsen, P. E., S. R. Sørli, C. Mauritzen, C. Lydersen, P. Dodd, and K. M. Kovacs, 2014: Upper-ocean hydrography of the Nordic Seas during the International Polar Year (2007–2008) as observed by instrumented seals and Argo floats. *Deep Sea Research Part I: Oceanographic Research Papers*, **93**, 41–59,

- <http://dx.doi.org/10.1016/j.dsr.2014.06.012>
- Isern-Fontanet, J., M. Shinde, and C. González-Haro, 2014: On the Transfer Function between Surface Fields and the Geostrophic Stream Function in the Mediterranean Sea. *Journal of Physical Oceanography*, **44**, 1406-1423, <http://dx.doi.org/10.1175/JPO-D-13-0186.1>
- Itoh, S., I. Yasuda, H. Ueno, T. Suga, and S. Kakehi, 2014: Regeneration of a warm anticyclonic ring by cold water masses within the western subarctic gyre of the North Pacific. *Journal of Oceanography*, **70**, 211-223, <http://dx.doi.org/10.1007/s10872-014-0225-9>
- Ivanov, V. A. and A. V. Bagaiev, 2014: Oscillation of hydrophysical fields on the shelf and continental slope caused by nonstationary wind. *Izvestiya, Atmospheric and Oceanic Physics*, **50**, 648-656, <http://dx.doi.org/10.1134/S0001433814060097>
- Jacox, M. G., A. M. Moore, C. A. Edwards, and J. Fiechter, 2014: Spatially resolved upwelling in the California Current System and its connections to climate variability. *Geophysical Research Letters*, **41**, 3189-3196, <http://dx.doi.org/10.1002/2014GL059589>
- Jeon, C., J.-H. Park, S. M. Varlamov, J.-H. Yoon, Y. H. Kim, S. Seo, Y.-G. Park, H. S. Min, J. H. Lee, and C.-H. Kim, 2014: Seasonal variation of semidiurnal internal tides in the East/Japan Sea. *Journal of Geophysical Research: Oceans*, **119**, 2843-2859, <http://dx.doi.org/10.1002/2014JC009864>
- Jiang, C., S. T. Gille, J. Sprintall, and C. Sweeney, 2014: Drake Passage Oceanic pCO₂: Evaluating CMIP5 Coupled Carbon–Climate Models Using in situ Observations. *Journal of Climate*, **27**, 76-100, <http://dx.doi.org/10.1175/JCLI-D-12-00571.1>
- Jing, Z., L. Wu, D. Wu, and B. Qiu, 2014: Enhanced 2-h–8-day Oscillations Associated with Tropical Instability Waves. *Journal of Physical Oceanography*, **44**, 1908-1918, <http://dx.doi.org/10.1175/JPO-D-13-0189.1>
- Johannessen, J. A., B. Chapron, F. Collard, and B. Backeberg, 2014: Use of SAR data to Monitor the Greater Agulhas Current. *Remote Sensing of the African Seas*, V. Barale and M. Gade, Eds., Springer Netherlands, 251-262, http://dx.doi.org/10.1007/978-94-017-8008-7_13.
- Johns, W. E., P. Brandt, B. Bourlès, A. Tantet, A. Papapostolou, and A. Houk, 2014: Zonal structure and seasonal variability of the Atlantic Equatorial Undercurrent. *Climate Dynamics*, **43**, 3047-3069, <http://dx.doi.org/10.1007/s00382-014-2136-2>
- Johnson, G. C. and J. M. Lyman, 2014: Oceanography: Where's the heat? *Nature Clim. Change*, **4**, 956-957, <http://dx.doi.org/10.1038/nclimate2409>
- Johnson, G. C., J. M. Lyman, G. Lagerloef, and H.-Y. Kao, 2014: Sea surface salinity in State of the Climate in 2013, Blunden, Jessica and Arndt, Derek S. Eds. *Bulletin of the American Meteorological Society*, **95**, S1-S279, <http://dx.doi.org/10.1175/2014BAMSStateoftheClimate.1>
- Johnson, G. C., J. M. Lyman, J. K. Willis, T. Boyer, J. Antonov, S. A. Good, C. M. Domingues, and N. L. Bindoff, 2014: Ocean Heat Content in State of the Climate in 2013, Blunden, Jessica and Arndt, Derek S. Eds. *Bulletin of the American Meteorological Society*, **95**, S1-S279, <http://dx.doi.org/10.1175/2014BAMSStateoftheClimate.1>
- Jones, D. C., T. Ito, Y. Takano, and W.-C. Hsu, 2014: Spatial and seasonal variability of the

- air-sea equilibration timescale of carbon dioxide. *Global Biogeochemical Cycles*, **28**, 1163-1178, <http://dx.doi.org/10.1002/2014GB004813>
- Joseph, P. V., 2014: Role of Ocean in the Variability of Indian Summer Monsoon Rainfall. *Surveys in Geophysics*, **35**, 723-738, <http://dx.doi.org/10.1007/s10712-013-9274-7>
- Jourdain, N. C., B. Barnier, N. Ferry, J. Vialard, C. E. Menkes, M. Lengaigne, and L. Parent, 2014: Tropical cyclones in two atmospheric (re)analyses and their response in two oceanic reanalyses. *Ocean Modelling*, **73**, 108-122, <https://doi.org/10.1016/j.ocemod.2013.10.007>
- Kaeriyama, H., Y. Shimizu, D. Ambe, M. Masujima, Y. Shigenobu, K. Fujimoto, T. Ono, K. Nishiuchi, T. Taneda, H. Kurogi, T. Setou, H. Sugisaki, T. Ichikawa, K. Hidaka, Y. Hiroe, A. Kusaka, T. Kodama, M. Kuriyama, H. Morita, K. Nakata, K. Morinaga, T. Morita, and T. Watanabe, 2014: Southwest Intrusion of ¹³⁴Cs and ¹³⁷Cs Derived from the Fukushima Dai-ichi Nuclear Power Plant Accident in the Western North Pacific. *Environmental Science & Technology*, **48**, 3120-3127, <http://dx.doi.org/10.1021/es403686v>
- Kelly, K. A., L. Thompson, and J. Lyman, 2014: The Coherence and Impact of Meridional Heat Transport Anomalies in the Atlantic Ocean Inferred from Observations*. *Journal of Climate*, **27**, 1469-1487, <http://dx.doi.org/10.1175/JCLI-D-12-00131.1>
- Kennedy, J. J., 2014: A review of uncertainty in in situ measurements and data sets of sea surface temperature. *Reviews of Geophysics*, **52**, 1-32, <http://dx.doi.org/10.1002/2013RG000434>
- Keppenne, C. L., 2014: An ensemble recentering Kalman filter with an application to Argo temperature data assimilation into the NASA GEOS-5 coupled model. *Ocean Modelling*, **77**, 50-55, <http://dx.doi.org/10.1016/j.ocemod.2014.03.001>
- Kim, Y. S. and A. H. Orsi, 2014: On the Variability of Antarctic Circumpolar Current Fronts Inferred from 1992–2011 Altimetry. *Journal of Physical Oceanography*, **44**, 3054-3071, <http://dx.doi.org/10.1175/JPO-D-13-0217.1>
- Kitade, Y., K. Shimada, T. Tamura, G. D. Williams, S. Aoki, Y. Fukamachi, F. Roquet, M. Hindell, S. Ushio, and K. I. Ohshima, 2014: Antarctic Bottom Water production from the Vincennes Bay Polynya, East Antarctica. *Geophysical Research Letters*, **41**, 3528-3534, <http://dx.doi.org/10.1002/2014GL059971>
- Klemas, V. and X.-H. Yan, 2014: Subsurface and deeper ocean remote sensing from satellites: An overview and new results. *Progress in Oceanography*, **122**, 1-9, <http://dx.doi.org/10.1016/j.pocean.2013.11.010>
- Koenig, Z., C. Provost, R. Ferrari, N. Sennéchaël, and M.-H. Rio, 2014: Volume transport of the Antarctic Circumpolar Current: Production and validation of a 20 year long time series obtained from in situ and satellite observations. *Journal of Geophysical Research: Oceans*, **119**, 5407-5433, <http://dx.doi.org/10.1002/2014JC009966>
- Köhl, A., 2014: Detecting Processes Contributing to Interannual Halosteric and Thermosteric Sea Level Variability. *Journal of Climate*, **27**, 2417-2426, <http://dx.doi.org/10.1175/JCLI-D-13-00412.1>
- Köhl, A., M. S. Martins, and D. Stammer, 2014: Impact of assimilating surface salinity from SMOS on ocean circulation estimates. *Journal of Geophysical Research: Oceans*, **119**, 5449-5464, <http://dx.doi.org/10.1002/2014JC010040>

- Kolodziejczyk, N., F. Marin, B. Bourlès, Y. Gouriou, and H. Berger, 2014: Seasonal variability of the equatorial undercurrent termination and associated salinity maximum in the Gulf of Guinea. *Climate Dynamics*, **43**, 3025-3046, <http://dx.doi.org/10.1007/s00382-014-2107-7>
- Kolodziejczyk, N., G. Reverdin, F. Gaillard, and A. Lazar, 2014: Low-frequency thermohaline variability in the Subtropical South Atlantic pycnocline during 2002–2013. *Geophysical Research Letters*, **41**, 6468-6475, <http://dx.doi.org/10.1002/2014GL061160>
- Korres, G., M. Ntoumas, M. Potiris, and G. Petihakis, 2014: Assimilating Ferry Box data into the Aegean Sea model. *Journal of Marine Systems*, **140, Part A**, 59-72, <http://dx.doi.org/10.1016/j.jmarsys.2014.03.013>
- Kosempa, M. and D. P. Chambers, 2014: Southern Ocean velocity and geostrophic transport fields estimated by combining Jason altimetry and Argo data. *Journal of Geophysical Research: Oceans*, **119**, 4761-4776, <http://dx.doi.org/10.1002/2014JC009853>
- Krokos, G., D. Velaoras, G. Korres, L. Perivoliotis, and A. Theocharis, 2014: On the continuous functioning of an internal mechanism that drives the Eastern Mediterranean thermohaline circulation: The recent activation of the Aegean Sea as a dense water source area. *Journal of Marine Systems*, **129**, 484-489, <http://dx.doi.org/10.1016/j.jmarsys.2013.10.002>
- Krüger, J. and S. L. Pohler, 2014: Modification of the Shape of Pacific Islands by Submarine Landslides: Banaba, Nauru, and Niue. *Submarine Mass Movements and Their Consequences*, S. Krastel, J.-H. Behrmann, D. Völker, M. Stipp, C. Berndt, R. Urgeles, J. Chaytor, K. Huhn, M. Strasser, and C. B. Harbitz, Eds., Springer International Publishing, 423-432, http://dx.doi.org/10.1007/978-3-319-00972-8_38.
- Kumar, A. and Z.-Z. Hu, 2014: Interannual and interdecadal variability of ocean temperature along the equatorial Pacific in conjunction with ENSO. *Climate Dynamics*, **42**, 1243-1258, <http://dx.doi.org/10.1007/s00382-013-1721-0>
- Kumar, A., H. Wang, Y. Xue, and W. Wang, 2014: How Much of Monthly Subsurface Temperature Variability in the Equatorial Pacific Can Be Recovered by the Specification of Sea Surface Temperatures? *Journal of Climate*, **27**, 1559-1577, <http://dx.doi.org/10.1175/JCLI-D-13-00258.1>
- Kumar, P. B., J. Vialard, M. Lengaigne, V. S. N. Murty, G. R. Foltz, M. J. McPhaden, S. Pous, and C. de Boyer Montégut, 2014: Processes of interannual mixed layer temperature variability in the thermocline ridge of the Indian Ocean. *Climate Dynamics*, **43**, 2377-2397, <http://dx.doi.org/10.1007/s00382-014-2059-y>
- Kuragano, T., Y. Fujii, T. Toyoda, N. Usui, K. Ogawa, and M. Kamachi, 2014: Seasonal barotropic sea surface height fluctuation in relation to regional ocean mass variation. *Journal of Oceanography*, **70**, 45-62, <http://dx.doi.org/10.1007/s10872-013-0211-7>
- Kurnosova, M. O. and K. V. Lebedev, 2014: Study of transport variations in the Kuroshio extension system at 35° N, 147° E based on the data of Argo floats and satellite altimetry. *Doklady Earth Sciences*, **458**, 1154-1157, <http://dx.doi.org/10.1134/S1028334X14090177>
- Lacorata, G., L. Palatella, and R. Santoleri, 2014: Lagrangian predictability characteristics of

- an Ocean Model. *Journal of Geophysical Research: Oceans*, **119**, 8029-8038, <http://dx.doi.org/10.1002/2014JC010313>
- Ladd, C., 2014: Seasonal and interannual variability of the Bering Slope Current. *Deep Sea Research Part II: Topical Studies in Oceanography*, **109**, 5-13, <http://dx.doi.org/10.1016/j.dsr2.2013.12.005>
- Le Vine, D. M., E. P. Dinnat, G. S. E. Lagerloef, P. de Matthaeis, S. Abraham, C. Utku, and H. Kao, 2014: Aquarius: Status and recent results. *Radio Science*, **49**, 709-720, <http://dx.doi.org/10.1002/2014RS005505>
- Lea, D. J., M. J. Martin, and P. R. Oke, 2014: Demonstrating the complementarity of observations in an operational ocean forecasting system. *Quarterly Journal of the Royal Meteorological Society*, **140**, 2037-2049, <http://dx.doi.org/10.1002/qj.2281>
- Lebeau-pin Brossier, C., T. Arsouze, K. Béranger, M.-N. Bouin, E. Bresson, V. Ducrocq, H. Giordani, M. Nuret, R. Rainaud, and I. Taupier-Letage, 2014: Ocean Mixed Layer responses to intense meteorological events during HyMeX-SOP1 from a high-resolution ocean simulation. *Ocean Modelling*, **84**, 84-103, <http://dx.doi.org/10.1016/j.ocemod.2014.09.009>
- Lee, T., G. Lagerloef, H.-Y. Kao, M. J. McPhaden, J. Willis, and M. M. Gierach, 2014: The influence of salinity on tropical Atlantic instability waves. *Journal of Geophysical Research: Oceans*, **119**, 8375-8394, <http://dx.doi.org/10.1002/2014JC010100>
- Lehahn, Y., I. Koren, D. Schatz, M. Frada, U. Sheyn, E. Boss, S. Efrati, Y. Rudich, M. Trainic, S. Sharoni, C. Laber, Giacomo R. DiTullio, Marco J. L. Coolen, Ana M. Martins, Benjamin A. S. Van Mooy, Kay D. Bidle, and A. Vardi, 2014: Decoupling Physical from Biological Processes to Assess the Impact of Viruses on a Mesoscale Algal Bloom. *Current Biology*, **24**, 2041-2046, <http://dx.doi.org/10.1016/j.cub.2014.07.046>
- Li, M., L. Xie, Q. Yang, and J. Tian, 2014: Impact of eddies on ocean diapycnal mixing in Gulf Stream region. *Science China Earth Sciences*, **57**, 1407-1414, <http://dx.doi.org/10.1007/s11430-013-4708-0>
- Li, Y., W. Han, T. Shinoda, C. Wang, M. Ravichandran, and J.-W. Wang, 2014: Revisiting the Wintertime Intraseasonal SST Variability in the Tropical South Indian Ocean: Impact of the Ocean Interannual Variation. *Journal of Physical Oceanography*, **44**, 1886-1907, <http://dx.doi.org/10.1175/JPO-D-13-0238.1>
- Li, Y., R. He, and J. P. Manning, 2014: Coastal connectivity in the Gulf of Maine in spring and summer of 2004–2009. *Deep Sea Research Part II: Topical Studies in Oceanography*, **103**, 199-209, <http://dx.doi.org/10.1016/j.dsr2.2013.01.037>
- Li, Y. N., S. Q. Peng, J. Wang, and J. Yan, 2014: Impacts of nonbreaking wave-stirring-induced mixing on the upper ocean thermal structure and typhoon intensity in the South China Sea. *Journal of Geophysical Research: Oceans*, **119**, 5052-5070, <http://dx.doi.org/10.1002/2014JC009956>
- Liang, H., W. Zhao, D. Dai, and J. Zhang, 2014: Estimation of vertical diffusion coefficient based on a one-dimensional temperature diffusion equation with an inverse method. *Acta Oceanologica Sinica*, **33**, 28-36, <http://dx.doi.org/10.1007/s13131-014-0472-z>
- Liao, X., Y. Du, H. Zhan, P. Shi, and J. Wang, 2014: Summertime phytoplankton blooms and surface cooling in the western south equatorial Indian Ocean. *Journal of Geophysical*

- Research: Oceans*, **119**, 7687-7704, <http://dx.doi.org/10.1002/2014JC010195>
- Lin, H., K. R. Thompson, and J. Hu, 2014: A Frequency-Dependent Description of Propagating Sea Level Signals in the Kuroshio Extension Region. *Journal of Physical Oceanography*, **44**, 1614-1635, <http://dx.doi.org/10.1175/JPO-D-13-0185.1>
- Lin, I. I., I.-F. Pun, and C.-C. Lien, 2014: "Category-6" supertyphoon Haiyan in global warming hiatus: Contribution from subsurface ocean warming. *Geophysical Research Letters*, **41**, 2014GL061281, <http://dx.doi.org/10.1002/2014GL061281>
- Liu, L., S. Peng, J. Wang, and R. X. Huang, 2014: Retrieving density and velocity fields of the ocean's interior from surface data. *Journal of Geophysical Research: Oceans*, **119**, 8512-8529, <http://dx.doi.org/10.1002/2014JC010221>
- Liu, Y., R. H. Weisberg, S. Vignudelli, and G. T. Mitchum, 2014: Evaluation of altimetry-derived surface current products using Lagrangian drifter trajectories in the eastern Gulf of Mexico. *Journal of Geophysical Research: Oceans*, **119**, 2827-2842, <http://dx.doi.org/10.1002/2013JC009710>
- Liu, Z., J. Xu, C. Sun, and X. Wu, 2014: An upper ocean response to Typhoon Bolaven analyzed with Argo profiling floats. *Acta Oceanologica Sinica*, **33**, 90-101, <http://dx.doi.org/10.1007/s13131-014-0558-7>
- Llovel, W., J. K. Willis, F. W. Landerer, and I. Fukumori, 2014: Deep-ocean contribution to sea level and energy budget not detectable over the past decade. *Nature Clim. Change*, **4**, 1031-1035, <http://dx.doi.org/10.1038/nclimate2387>
- Lu, S., Z. Liu, and Z. Lihong, 2014: Improvement of Argo salinity data delayed mode quality control method. *Journal of PLA University of Sci and Tech*, **15**, 598-606,
- Lübbecke, J. F. and M. J. McPhaden, 2014: Assessing the Twenty-First-Century Shift in ENSO Variability in Terms of the Bjerknes Stability Index*. *Journal of Climate*, **27**, 2577-2587, <http://dx.doi.org/10.1175/JCLI-D-13-00438.1>
- Luo, H., A. Bracco, and F. Zhang, 2014: The Seasonality of Convective Events in the Labrador Sea. *Journal of Climate*, **27**, 6456-6471, <http://dx.doi.org/10.1175/JCLI-D-14-00009.1>
- Luo, Y. W., I. D. Lima, D. M. Karl, C. A. Deutsch, and S. C. Doney, 2014: Data-based assessment of environmental controls on global marine nitrogen fixation. *Biogeosciences*, **11**, 691-708, <http://dx.doi.org/10.5194/bg-11-691-2014>
- Lyman, J. M. and G. C. Johnson, 2014: Estimating Global Ocean Heat Content Changes in the Upper 1800 m since 1950 and the Influence of Climatology Choice. *Journal of Climate*, **27**, 1945-1957, <http://dx.doi.org/10.1175/JCLI-D-12-00752.1>
- Lyu, G., H. Wang, J. Zhu, D. Wang, J. Xie, and G. Liu, 2014: Assimilating the along-track sea level anomaly into the regional ocean modeling system using the ensemble optimal interpolation. *Acta Oceanologica Sinica*, **33**, 72-82, <http://dx.doi.org/10.1007/s13131-014-0469-7>
- Ma, W., X. Yang, G. Liu, S. Ma, Y. Yu, Z. Li, and Y. Liu, 2014: An Improved Model for L-Band Brightness Temperature Estimation Over Foam-Covered Seas Under Low and Moderate Winds. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **7**, 3784-3793, <http://dx.doi.org/10.1109/JSTARS.2014.2318432>
- Maes, C. and T. J. O'Kane, 2014: Seasonal variations of the upper ocean salinity stratification in the Tropics. *Journal of Geophysical Research: Oceans*, **119**, 1706-1722, <http://dx.doi.org/10.1002/2013JC009366>

- Maes, C., N. Reul, D. Behringer, and T. O'Kane, 2014: The salinity signature of the equatorial Pacific cold tongue as revealed by the satellite SMOS mission. *Geoscience Letters*, **1**, 1-7, <http://dx.doi.org/10.1186/s40562-014-0017-5>
- Mahongo, S. B. and Y. Shaghude, 2014: Modelling the dynamics of the Tanzanian coastal waters. *Journal of Oceanography and Marine Science*, **5**, 1-7, <http://dx.doi.org/10.5897/JOMS2013.0100>
- Marcinko, C. L. J., A. P. Martin, and J. T. Allen, 2014: Modelling dinoflagellates as an approach to the seasonal forecasting of bioluminescence in the North Atlantic. *Journal of Marine Systems*, **139**, 261-275, <http://dx.doi.org/10.1016/j.jmarsys.2014.06.014>
- Marullo, S., R. Santoleri, D. Ciani, P. Le Borgne, S. Péré, N. Pinardi, M. Tonani, and G. Nardone, 2014: Combining model and geostationary satellite data to reconstruct hourly SST field over the Mediterranean Sea. *Remote Sensing of Environment*, **146**, 11-23, <http://dx.doi.org/10.1016/j.rse.2013.11.001>
- Masuda, S. and S. Hosoda, 2014: Effective Design of Profiling Float Network for Oceanic Heat-Content Monitoring. *The Scientific World Journal*, **2014**, 6, <http://dx.doi.org/10.1155/2014/340518>
- Masuda, S., N. Sugiura, S. Osafune, and T. Doi, 2014: Improvement of Ocean State Estimation by Assimilating Mapped Argo Drift Data. *The Scientific World Journal*, **2014**, 6, <http://dx.doi.org/10.1155/2014/975618>
- McClatchie, S., 2014: Oceanography of the Southern California Current System Relevant to Fisheries. *Regional Fisheries Oceanography of the California Current System*, Springer Netherlands, 13-60, http://dx.doi.org/10.1007/978-94-007-7223-6_2.
- McPhaden, M. J. and M. Nagura, 2014: Indian Ocean dipole interpreted in terms of recharge oscillator theory. *Climate Dynamics*, **42**, 1569-1586, <http://dx.doi.org/10.1007/s00382-013-1765-1>
- Meissner, T., F. Wentz, L. Ricciardulli, K. Hilburn, and J. Scott, 2014: The Aquarius salinity retrieval algorithm recent progress and remaining challenges. *Microwave Radiometry and Remote Sensing of the Environment (MicroRad), 2014 13th Specialist Meeting on*, 49-54, <http://dx.doi.org/10.1109/MicroRad.2014.6878906>
- Melnichenko, O., P. Hacker, N. Maximenko, G. Lagerloef, and J. Potemra, 2014: Spatial Optimal Interpolation of Aquarius Sea Surface Salinity: Algorithms and Implementation in the North Atlantic. *Journal of Atmospheric and Oceanic Technology*, **31**, 1583-1600, <http://dx.doi.org/10.1175/JTECH-D-13-00241.1>
- Menezes, V. V., H. E. Phillips, A. Schiller, N. L. Bindoff, C. M. Domingues, and M. L. Vianna, 2014: South Indian Countercurrent and associated fronts. *Journal of Geophysical Research: Oceans*, **119**, 6763-6791, <http://dx.doi.org/10.1002/2014JC010076>
- Menezes, V. V., M. L. Vianna, and H. E. Phillips, 2014: Aquarius sea surface salinity in the South Indian Ocean: Revealing annual-period planetary waves. *Journal of Geophysical Research: Oceans*, **119**, 3883-3908, <http://dx.doi.org/10.1002/2014JC009935>
- Menkes, C. E., M. Lengaigne, J. Vialard, M. Puy, P. Marchesiello, S. Cravatte, and G. Cambon, 2014: About the role of Westerly Wind Events in the possible development of an El Niño in 2014. *Geophysical Research Letters*, **41**, 6476-6483,

- <http://dx.doi.org/10.1002/2014GL061186>
- Mensah, V., S. Jan, M.-D. Chiou, T. H. Kuo, and R.-C. Lien, 2014: Evolution of the Kuroshio Tropical Water from the Luzon Strait to the east of Taiwan. *Deep Sea Research Part I: Oceanographic Research Papers*, **86**, 68-81, <http://dx.doi.org/10.1016/j.dsr.2014.01.005>
- Meyers, P. C., L. K. Shay, and J. K. Brewster, 2014: Development and Analysis of the Systematically Merged Atlantic Regional Temperature and Salinity Climatology for Oceanic Heat Content Estimates. *Journal of Atmospheric and Oceanic Technology*, **31**, 131-149, <http://dx.doi.org/10.1175/JTECH-D-13-00100.1>
- Mignot, A., H. Claustre, J. Uitz, A. Poteau, F. D'Ortenzio, and X. Xing, 2014: Understanding the seasonal dynamics of phytoplankton biomass and the deep chlorophyll maximum in oligotrophic environments: A Bio-Argo float investigation. *Global Biogeochemical Cycles*, **28**, 856-876, <http://dx.doi.org/10.1002/2013GB004781>
- Miles, E. R., C. M. Spillman, J. A. Church, and P. C. McIntosh, 2014: Seasonal prediction of global sea level anomalies using an ocean-atmosphere dynamical model. *Climate Dynamics*, **43**, 2131-2145, <http://dx.doi.org/10.1007/s00382-013-2039-7>
- Moon, J.-H. and Y. T. Song, 2014: Seasonal salinity stratifications in the near-surface layer from Aquarius, Argo, and an ocean model: Focusing on the tropical Atlantic/Indian Oceans. *Journal of Geophysical Research: Oceans*, **119**, 6066-6077, <http://dx.doi.org/10.1002/2014JC009969>
- Moore, G. W. K., R. S. Pickart, I. A. Renfrew, and K. Våge, 2014: What causes the location of the air-sea turbulent heat flux maximum over the Labrador Sea? *Geophysical Research Letters*, **41**, 3628-3635, <http://dx.doi.org/10.1002/2014GL059940>
- Mork, K. A., Ø. Skagseth, V. Ivshin, V. Ozhigin, S. L. Hughes, and H. Valdimarsson, 2014: Advective and atmospheric forced changes in heat and fresh water content in the Norwegian Sea, 1951–2010. *Geophysical Research Letters*, **41**, 2014GL061038, <http://dx.doi.org/10.1002/2014GL061038>
- Morrow, R. and E. Kestenare, 2014: Nineteen-year changes in surface salinity in the Southern Ocean south of Australia. *Journal of Marine Systems*, **129**, 472-483, <http://dx.doi.org/10.1016/j.jmarsys.2013.09.011>
- Msadek, R., T. L. Delworth, A. Rosati, W. Anderson, G. Vecchi, Y. S. Chang, K. Dixon, R. G. Gudgel, W. Stern, A. Wittenberg, X. Yang, F. Zeng, R. Zhang, and S. Zhang, 2014: Predicting a Decadal Shift in North Atlantic Climate Variability Using the GFDL Forecast System. *Journal of Climate*, **27**, 6472-6496, <http://dx.doi.org/10.1175/JCLI-D-13-00476.1>
- Msadek, R., G. A. Vecchi, M. Winton, and R. G. Gudgel, 2014: Importance of initial conditions in seasonal predictions of Arctic sea ice extent. *Geophysical Research Letters*, **41**, 5208-5215, <http://dx.doi.org/10.1002/2014GL060799>
- Murase, H., T. Hakamada, K. Matsuoka, S. Nishiwaki, D. Inagake, M. Okazaki, N. Tojo, and T. Kitakado, 2014: Distribution of sei whales (*Balaenoptera borealis*) in the subarctic-subtropical transition area of the western North Pacific in relation to oceanic fronts. *Deep Sea Research Part II: Topical Studies in Oceanography*, **107**, 22-28, <http://dx.doi.org/10.1016/j.dsr2.2014.05.002>
- Muscarella, P. A., M. J. Carrier, and H. E. Ngodock, 2014: An examination of a multi-scale

- three-dimensional variational data assimilation scheme in the Kuroshio Extension using the naval coastal ocean model. *Continental Shelf Research*, **73**, 41-48, <http://dx.doi.org/10.1016/j.csr.2013.11.009>
- Na, H., M. Wimbush, J.-H. Park, H. Nakamura, and A. Nishina, 2014: Observations of flow variability through the Kerama Gap between the East China Sea and the Northwestern Pacific. *Journal of Geophysical Research: Oceans*, **119**, 689-703, <http://dx.doi.org/10.1002/2013JC008899>
- Nagano, A., K. Uehara, T. Suga, Y. Kawai, H. Ichikawa, and M. F. Cronin, 2014: Origin of near-surface high-salinity water observed in the Kuroshio Extension region. *Journal of Oceanography*, **70**, 389-403, <http://dx.doi.org/10.1007/s10872-014-0237-5>
- Nagura, M. and M. J. McPhaden, 2014: Zonal momentum budget along the equator in the Indian Ocean from a high-resolution ocean general circulation model. *Journal of Geophysical Research: Oceans*, **119**, 4444-4461, <http://dx.doi.org/10.1002/2014JC009895>
- Narvekar, J. and S. Prasanna Kumar, 2014: Mixed layer variability and chlorophyll a biomass in the Bay of Bengal. *Biogeosciences*, **11**, 3819-3843, <http://dx.doi.org/10.5194/bg-11-3819-2014>
- Nieves, V., J. Wang, and J. K. Willis, 2014: A conceptual model of ocean freshwater flux derived from sea surface salinity. *Geophysical Research Letters*, **41**, 6452-6458, <http://dx.doi.org/10.1002/2014GL061365>
- Nyadjro, E. S. and B. Subrahmanyam, 2014: SMOS Mission Reveals the Salinity Structure of the Indian Ocean Dipole. *Ieee Geoscience and Remote Sensing Letters*, **11**, 1564-1568, <https://doi.org/10.1109/LGRS.2014.2301594>
- Oka, E., K. Uehara, T. Nakano, T. Suga, D. Yanagimoto, S. Kouketsu, S. Itoh, S. Katsura, and L. Talley, 2014: Synoptic observation of Central Mode Water in its formation region in spring 2003. *Journal of Oceanography*, **70**, 521-534, <http://dx.doi.org/10.1007/s10872-014-0248-2>
- O'Kane, T. J., R. J. Matear, M. A. Chamberlain, and P. R. Oke, 2014: ENSO regimes and the late 1970's climate shift: The role of synoptic weather and South Pacific ocean spiciness. *Journal of Computational Physics*, **271**, 19-38, <http://dx.doi.org/10.1016/j.jcp.2013.10.058>
- O'Kane, T. J., R. J. Matear, M. A. Chamberlain, E. C. J. Oliver, and N. J. Holbrook, 2014: Storm tracks in the Southern Hemisphere subtropical oceans. *Journal of Geophysical Research: Oceans*, **119**, 6078-6100, <http://dx.doi.org/10.1002/2014JC009990>
- Okuro, A., M. Kubota, H. Tomita, and T. Hihara, 2014: Inter-comparison of various global sea surface temperature products. *International Journal of Remote Sensing*, **35**, 5394-5410, <http://dx.doi.org/10.1080/01431161.2014.926415>
- Oliver, E. C. J. and N. J. Holbrook, 2014: Extending our understanding of South Pacific gyre "spin-up": Modeling the East Australian Current in a future climate. *Journal of Geophysical Research: Oceans*, **119**, 2788-2805, <http://dx.doi.org/10.1002/2013JC009591>
- Ollitrault, M. and A. Colin de Verdière, 2014: The Ocean General Circulation near 1000-m Depth. *Journal of Physical Oceanography*, **44**, 384-409, <http://dx.doi.org/10.1175/JPO-D-13-030.1>

- Osafune, S., S. Masuda, and N. Sugiura, 2014: Role of the oceanic bridge in linking the 18.6 year modulation of tidal mixing and long-term SST change in the North Pacific. *Geophysical Research Letters*, **41**, 7284-7290, <http://dx.doi.org/10.1002/2014GL061737>
- Painter, S. C., S. A. Henson, A. Forryan, S. Steigenberger, J. Klar, M. C. Stinchcombe, N. Rogan, A. R. Baker, E. P. Achterberg, and C. M. Moore, 2014: An assessment of the vertical diffusive flux of iron and other nutrients to the surface waters of the subpolar North Atlantic Ocean. *Biogeosciences*, **11**, 2113-2130, <http://dx.doi.org/10.5194/bg-11-2113-2014>
- Pan, X., E. P. Achterberg, R. Sanders, A. J. Poulton, K. I. C. Oliver, and C. Robinson, 2014: Dissolved organic carbon and apparent oxygen utilization in the Atlantic Ocean. *Deep Sea Research Part I: Oceanographic Research Papers*, **85**, 80-87, <http://dx.doi.org/10.1016/j.dsr.2013.12.003>
- Pandey, V. K. and P. Kurtakoti, 2014: Evaluation of GODAS Using RAMA Mooring Observations from the Indian Ocean. *Marine Geodesy*, **37**, 14-31, <http://dx.doi.org/10.1080/01490419.2013.859642>
- Parard, G., J. Boutin, Y. Cuypers, P. Bouruet-Aubertot, and G. Caniaux, 2014: On the physical and biogeochemical processes driving the high frequency variability of CO₂ fugacity at 6°S, 10°W: Potential role of the internal waves. *Journal of Geophysical Research: Oceans*, **119**, 8357-8374, <http://dx.doi.org/10.1002/2014JC009965>
- Park, Y.-H., I. Durand, E. Kestenare, G. Rougier, M. Zhou, F. d'Ovidio, C. Cotté, and J.-H. Lee, 2014: Polar Front around the Kerguelen Islands: An up-to-date determination and associated circulation of surface/subsurface waters. *Journal of Geophysical Research: Oceans*, **119**, 6575-6592, <http://dx.doi.org/10.1002/2014JC010061>
- Parker, A., 2014: Present contributions to sea level rise by thermal expansion and ice melting and implication on coastal management. *Ocean & Coastal Management*, **98**, 202-211, <http://dx.doi.org/10.1016/j.ocecoaman.2014.05.026>
- Peña-Molino, B., S. R. Rintoul, and M. R. Mazloff, 2014: Barotropic and baroclinic contributions to along-stream and across-stream transport in the Antarctic Circumpolar Current. *Journal of Geophysical Research: Oceans*, **119**, 8011-8028, <http://dx.doi.org/10.1002/2014JC010020>
- Perez, R. C., V. Hormann, R. Lumpkin, P. Brandt, W. E. Johns, F. Hernandez, C. Schmid, and B. Bourlès, 2014: Mean meridional currents in the central and eastern equatorial Atlantic. *Climate Dynamics*, **43**, 2943-2962, <http://dx.doi.org/10.1007/s00382-013-1968-5>
- Piecuch, C. G. and R. M. Ponte, 2014: Mechanisms of Global-Mean Steric Sea Level Change. *Journal of Climate*, **27**, 824-834, <http://dx.doi.org/10.1175/JCLI-D-13-00373.1>
- Pingree, R. D. and C. Garcia-Soto, 2014: Plankton blooms, ocean circulation and the European slope current: Response to weather and climate in the Bay of Biscay and W English Channel (NE Atlantic). *Deep Sea Research Part II: Topical Studies in Oceanography*, **106**, 5-22, <http://dx.doi.org/10.1016/j.dsr2.2014.07.008>
- Plotkin, D. A., J. Weare, and D. S. Abbot, 2014: Distinguishing meanders of the Kuroshio using machine learning. *Journal of Geophysical Research: Oceans*, **119**, 6593-6604, <http://dx.doi.org/10.1002/2014JC010128>

- Pous, S., P. Lazure, G. André, F. Dumas, I. Halo, and P. Penven, 2014: Circulation around La Réunion and Mauritius islands in the south-western Indian Ocean: A modeling perspective. *Journal of Geophysical Research: Oceans*, **119**, 1957-1976, <http://dx.doi.org/10.1002/2013JC009704>
- Pun, I.-F., I. I. Lin, and D. S. Ko, 2014: New generation of satellite-derived ocean thermal structure for the western north pacific typhoon intensity forecasting. *Progress in Oceanography*, **121**, 109-124, <http://dx.doi.org/10.1016/j.pocean.2013.10.004>
- Qiu, B., S. Chen, P. Klein, H. Sasaki, and Y. Sasai, 2014: Seasonal Mesoscale and Submesoscale Eddy Variability along the North Pacific Subtropical Countercurrent. *Journal of Physical Oceanography*, **44**, 3079-3098, <http://dx.doi.org/10.1175/JPO-D-14-0071.1>
- Qu, T., Y. T. Song, and C. Maes, 2014: Sea surface salinity and barrier layer variability in the equatorial Pacific as seen from Aquarius and Argo. *Journal of Geophysical Research: Oceans*, **119**, 15-29, <http://dx.doi.org/10.1002/2013JC009375>
- Qu, T. and J.-Y. Yu, 2014: ENSO indices from sea surface salinity observed by Aquarius and Argo. *Journal of Oceanography*, **70**, 367-375, <http://dx.doi.org/10.1007/s10872-014-0238-4>
- Racapé, V., N. Metzl, C. Pierre, G. Reverdin, P. D. Quay, and S. R. Olafsdottir, 2014: The seasonal cycle of $\delta^{13}\text{C}_{\text{DIC}}$ in the North Atlantic subpolar gyre. *Biogeosciences*, **11**, 1683-1692, <http://dx.doi.org/10.5194/bg-11-1683-2014>
- Rainville, L., S. R. Jayne, and M. F. Cronin, 2014: Variations of the North Pacific Subtropical Mode Water from Direct Observations. *Journal of Climate*, **27**, 2842-2860, <http://dx.doi.org/10.1175/JCLI-D-13-00227.1>
- Rajapaksha, J. K., 2014: Multispectral Satellite Data on Ocean Surface to Predict its Vertical Temperature Profiles, A Simple Model. *Asian Journal of Geoinformatics*, **14**, <http://www.geoinfo.ait.ac.th/ajg/index.php/journal/article/view/199>
- Ramachandran, S., A. Tandon, and A. Mahadevan, 2014: Enhancement in vertical fluxes at a front by mesoscale-submesoscale coupling. *Journal of Geophysical Research: Oceans*, **119**, 8495-8511, <http://dx.doi.org/10.1002/2014JC010211>
- Rao, R. R., V. Jitendra, M. S. GirishKumar, M. Ravichandran, and S. S. V. S. Ramakrishna, 2014: Interannual variability of the Arabian Sea Warm Pool: observations and governing mechanisms. *Climate Dynamics*, **44**, 2119-2136, <http://dx.doi.org/10.1007/s00382-014-2243-0>
- Ratheesh, S., R. Sharma, and S. Basu, 2014: An EnOI Assimilation of Satellite Data in an Indian Ocean Circulation Model. *IEEE Transactions on Geoscience and Remote Sensing*, **52**, 4106-4111, <http://dx.doi.org/10.1109/TGRS.2013.2279606>
- Ratheesh, S., R. Sharma, R. Sikhakolli, R. Kumar, and S. Basu, 2014: Assessing Sea Surface Salinity Derived by Aquarius in the Indian Ocean. *Ieee Geoscience and Remote Sensing Letters*, **11**, 719-722, <https://doi.org/10.1109/LGRS.2013.2277391>
- Reagan, J., T. Boyer, J. Antonov, and M. Zweng, 2014: Comparison analysis between Aquarius sea surface salinity and World Ocean Database in situ analyzed sea surface salinity. *Journal of Geophysical Research: Oceans*, **119**, 8122-8140, <http://dx.doi.org/10.1002/2014JC009961>
- Reboreda, R., R. Nolasco, C. G. Castro, X. A. Álvarez-Salgado, N. G. F. Cordeiro, H. Queiroga,

- and J. Dubert, 2014: Seasonal cycle of plankton production in the Iberian margin based on a high resolution ocean model. *Journal of Marine Systems*, **139**, 396-408, <http://dx.doi.org/10.1016/j.jmarsys.2014.08.004>
- Ren, L., E. Hackert, P. Arkin, and A. J. Busalacchi, 2014: Estimating the global oceanic net freshwater flux from Argo and comparing it with satellite-based freshwater flux products. *Journal of Geophysical Research: Oceans*, **119**, 7869-7881, <http://dx.doi.org/10.1002/2013JC009620>
- Resplandy, L., J. Boutin, and L. Merlivat, 2014: Observed small spatial scale and seasonal variability of the CO₂ system in the Southern Ocean. *Biogeosciences*, **11**, 75-90, <http://dx.doi.org/10.5194/bg-11-75-2014>
- Reul, N., S. Fournier, J. Boutin, O. Hernandez, C. Maes, B. Chapron, G. Alory, Y. Quilfen, J. Tenerelli, S. Morisset, Y. Kerr, S. Mecklenburg, and S. Delwart, 2014: Sea Surface Salinity Observations from Space with the SMOS Satellite: A New Means to Monitor the Marine Branch of the Water Cycle. *Surveys in Geophysics*, **35**, 681-722, <http://dx.doi.org/10.1007/s10712-013-9244-0>
- Reul, N., Y. Quilfen, B. Chapron, S. Fournier, V. Kudryavtsev, and R. Sabia, 2014: Multisensor observations of the Amazon-Orinoco river plume interactions with hurricanes. *Journal of Geophysical Research: Oceans*, **119**, 8271-8295, <http://dx.doi.org/10.1002/2014JC010107>
- Reverdin, G., S. Morisset, J. Boutin, N. Martin, M. Sena-Martins, F. Gaillard, P. Blouch, J. Rolland, J. Font, J. Salvador, P. Fernández, and D. Stammer, 2014: Validation of Salinity Data from Surface Drifters. *Journal of Atmospheric and Oceanic Technology*, **31**, 967-983, <http://dx.doi.org/10.1175/JTECH-D-13-00158.1>
- Rio, M. H., S. Mulet, and N. Picot, 2014: Beyond GOCE for the ocean circulation estimate: Synergetic use of altimetry, gravimetry, and in situ data provides new insight into geostrophic and Ekman currents. *Geophysical Research Letters*, **41**, 8918-8925, <http://dx.doi.org/10.1002/2014GL061773>
- Rio, M. H., A. Pascual, P. M. Poulain, M. Menna, B. Barceló, and J. Tintoré, 2014: Computation of a new mean dynamic topography for the Mediterranean Sea from model outputs, altimeter measurements and oceanographic in situ data. *Ocean Science*, **10**, 731-744, <http://dx.doi.org/10.5194/os-10-731-2014>
- Rodgers, K. B., O. Aumont, S. E. Mikaloff Fletcher, Y. Plancherel, L. Bopp, C. de Boyer Montégut, D. Iudicone, R. F. Keeling, G. Madec, and R. Wanninkhof, 2014: Strong sensitivity of Southern Ocean carbon uptake and nutrient cycling to wind stirring. *Biogeosciences*, **11**, 4077-4098, <http://dx.doi.org/10.5194/bg-11-4077-2014>
- Rossby, T., 2014: On the structure and distribution of thin anticyclonic lenses in the southeast Pacific Ocean. *Journal of Marine Research*, **72**, 383-403, <http://dx.doi.org/10.1357/002224014815540651>
- Roulet, G., X. Capet, and G. Maze, 2014: Global interior eddy available potential energy diagnosed from Argo floats. *Geophysical Research Letters*, **41**, 1651-1656, <http://dx.doi.org/10.1002/2013GL059004>
- Sabia, R., M. Klockmann, D. Fernández-Prieto, and C. Donlon, 2014: A first estimation of SMOS-based ocean surface T-S diagrams. *Journal of Geophysical Research: Oceans*, **119**, 7357-7371, <http://dx.doi.org/10.1002/2014JC010120>

- Saenko, O. A., F. Dupont, D. Yang, P. G. Myers, I. Yashayaev, and G. C. Smith, 2014: Role of Resolved and Parameterized Eddies in the Labrador Sea Balance of Heat and Buoyancy. *Journal of Physical Oceanography*, **44**, 3008-3032, <http://dx.doi.org/10.1175/JPO-D-14-0041.1>
- Sandery, P. A. and T. J. O'Kane, 2014: Coupled initialization in an ocean-atmosphere tropical cyclone prediction system. *Quarterly Journal of the Royal Meteorological Society*, **140**, 82-95, <https://doi.org/10.1002/qj.2117>
- Sandery, P. A., P. Sakov, and L. Majewski, 2014: The impact of open boundary forcing on forecasting the East Australian Current using ensemble data assimilation. *Ocean Modelling*, **84**, 1-11, <http://dx.doi.org/10.1016/j.ocemod.2014.09.005>
- Santos-Garcia, A., M. M. Jacob, W. L. Jones, W. E. Asher, Y. Hejazin, H. Ebrahimi, and M. Rabolli, 2014: Investigation of rain effects on Aquarius Sea Surface Salinity measurements. *Journal of Geophysical Research: Oceans*, **119**, 7605-7624, <http://dx.doi.org/10.1002/2014JC010137>
- Sato, O. T. and P. S. Polito, 2014: Observation of South Atlantic subtropical mode waters with Argo profiling float data. *Journal of Geophysical Research: Oceans*, **119**, 2860-2881, <http://dx.doi.org/10.1002/2013JC009438>
- Sayantani, O., C. Gnanaseelan, and J. S. Chowdary, 2014: The role of Arabian Sea in the evolution of Indian Ocean Dipole. *International Journal of Climatology*, **34**, 1845-1859, <http://dx.doi.org/10.1002/joc.3805>
- Schlundt, M., P. Brandt, M. Dengler, R. Hummels, T. Fischer, K. Bumke, G. Krahmann, and J. Karstensen, 2014: Mixed layer heat and salinity budgets during the onset of the 2011 Atlantic cold tongue. *Journal of Geophysical Research: Oceans*, **119**, 7882-7910, <http://dx.doi.org/10.1002/2014JC010021>
- Schmid, C., 2014: Mean vertical and horizontal structure of the subtropical circulation in the South Atlantic from three-dimensional observed velocity fields. *Deep Sea Research Part I: Oceanographic Research Papers*, **91**, 50-71, <http://dx.doi.org/10.1016/j.dsr.2014.04.015>
- Schmidtko, S., K. J. Heywood, A. F. Thompson, and S. Aoki, 2014: Multidecadal warming of Antarctic waters. *Science*, **346**, 1227-1231, <http://dx.doi.org/10.1126/science.1256117>
- Seo, G.-H., Y.-K. Cho, and B.-J. Choi, 2014: Variations of heat transport in the northwestern Pacific marginal seas inferred from high-resolution reanalysis. *Progress in Oceanography*, **121**, 98-108, <http://dx.doi.org/10.1016/j.pocean.2013.10.005>
- Seo, Y., S. Sugimoto, and K. Hanawa, 2014: Long-Term Variations of the Kuroshio Extension Path in Winter: Meridional Movement and Path State Change. *Journal of Climate*, **27**, 5929-5940, <http://dx.doi.org/10.1175/JCLI-D-13-00641.1>
- Shan, H., Y. Guan, and J. Huang, 2014: Investigating different bio-responses of the upper ocean to Typhoon Haitang using Argo and satellite data. *Chinese Science Bulletin*, **59**, 785-794, <http://dx.doi.org/10.1007/s11434-013-0101-9>
- Shiozaki, T., M. Ijichi, T. Kodama, S. Takeda, and K. Furuya, 2014: Heterotrophic bacteria as major nitrogen fixers in the euphotic zone of the Indian Ocean. *Global Biogeochemical Cycles*, **28**, 1096-1110, <http://dx.doi.org/10.1002/2014GB004886>
- Shiozaki, T., S.-I. Ito, K. Takahashi, H. Saito, T. Nagata, and K. Furuya, 2014: Regional

- variability of factors controlling the onset timing and magnitude of spring algal blooms in the northwestern North Pacific. *Journal of Geophysical Research: Oceans*, **119**, 253-265, <http://dx.doi.org/10.1002/2013JC009187>
- Shiozaki, T., T. Kodama, and K. Furuya, 2014: Large-scale impact of the island mass effect through nitrogen fixation in the western South Pacific Ocean. *Geophysical Research Letters*, **41**, 2907-2913, <http://dx.doi.org/10.1002/2014GL059835>
- Sil, S., A. Chakraborty, S. K. Basu, and P. C. Pandey, 2014: Response of OceanSat II scatterometer winds in the Bay of Bengal circulation. *International Journal of Remote Sensing*, **35**, 5315-5327, <http://dx.doi.org/10.1080/01431161.2014.926423>
- Skliris, N., R. Marsh, S. Josey, S. Good, C. Liu, and R. Allan, 2014: Salinity changes in the World Ocean since 1950 in relation to changing surface freshwater fluxes. *Climate Dynamics*, **43**, 709-736, <http://dx.doi.org/10.1007/s00382-014-2131-7>
- Souza, J. M. A. C., B. Chapron, and E. Autret, 2014: The surface thermal signature and air-sea coupling over the Agulhas rings propagating in the South Atlantic Ocean interior. *Ocean Science*, **10**, 633-644, <http://dx.doi.org/10.5194/os-10-633-2014>
- Sreenivas, P. and C. Gnanaseelan, 2014: Impact of Oceanic Processes on the Life Cycle of Severe Cyclonic Storm "Jal". *Geoscience and Remote Sensing Letters, IEEE*, **11**, 519-523, <http://dx.doi.org/10.1109/LGRS.2013.2271512>
- Stanev, E. V., Y. He, J. Staneva, and E. Yakushev, 2014: Mixing in the Black Sea detected from the temporal and spatial variability of oxygen and sulfide - Argo float observations and numerical modelling. *Biogeosciences*, **11**, 5707-5732, <http://dx.doi.org/10.5194/bg-11-5707-2014>
- Storto, A., S. Masina, and S. Dobricic, 2014: Estimation and Impact of Nonuniform Horizontal Correlation Length Scales for Global Ocean Physical Analyses. *Journal of Atmospheric and Oceanic Technology*, **31**, 2330-2349, <http://dx.doi.org/10.1175/JTECH-D-14-00042.1>
- Stramma, L., R. A. Weller, R. Czeschel, and S. Bigorre, 2014: Eddies and an extreme water mass anomaly observed in the eastern south Pacific at the Stratus mooring. *Journal of Geophysical Research: Oceans*, **119**, 1068-1083, <http://dx.doi.org/10.1002/2013JC009470>
- Sugimoto, S., 2014: Influence of SST Anomalies on Winter Turbulent Heat Fluxes in the Eastern Kuroshio-Oyashio Confluence Region. *Journal of Climate*, **27**, 9349-9358, <http://dx.doi.org/10.1175/JCLI-D-14-00195.1>
- Sugimoto, S. and K. Hanawa, 2014: Influence of Kuroshio Path Variation South of Japan on Formation of Subtropical Mode Water. *Journal of Physical Oceanography*, **44**, 1065-1077, <http://dx.doi.org/10.1175/JPO-D-13-0114.1>
- Sugimoto, S., N. Kobayashi, and K. Hanawa, 2014: Quasi-Decadal Variation in Intensity of the Western Part of the Winter Subarctic SST Front in the Western North Pacific: The Influence of Kuroshio Extension Path State. *Journal of Physical Oceanography*, **44**, 2753-2762, <http://dx.doi.org/10.1175/JPO-D-13-0265.1>
- Sun, L., Y.-X. Li, Y.-J. Yang, Q. Wu, X.-T. Chen, Q.-Y. Li, Y.-B. Li, and T. Xian, 2014: Effects of super typhoons on cyclonic ocean eddies in the western North Pacific: A satellite data-based evaluation between 2000 and 2008. *Journal of Geophysical Research: Oceans*, **119**, 5585-5598, <http://dx.doi.org/10.1002/2013JC009575>

- Sutton, P. J. H. and M. Bowen, 2014: Flows in the Tasman Front south of Norfolk Island. *Journal of Geophysical Research: Oceans*, **119**, 3041-3053, <http://dx.doi.org/10.1002/2013JC009543>
- Tagliabue, A., J.-B. Sallee, A. R. Bowie, M. Levy, S. Swart, and P. W. Boyd, 2014: Surface-water iron supplies in the Southern Ocean sustained by deep winter mixing. *Nature Geoscience*, **7**, 314-320, <http://dx.doi.org/10.1038/ngeo2101>
- Talandier, C., J. Deshayes, A. M. Treguier, X. Capet, R. Benshila, L. Debreu, R. Dussin, J. M. Molines, and G. Madec, 2014: Improvements of simulated Western North Atlantic current system and impacts on the AMOC. *Ocean Modelling*, **76**, 1-19, <http://dx.doi.org/10.1016/j.ocemod.2013.12.007>
- Tang, W., S. H. Yueh, A. G. Fore, and A. Hayashi, 2014: Validation of Aquarius sea surface salinity with in situ measurements from Argo floats and moored buoys. *Journal of Geophysical Research: Oceans*, **119**, 6171-6189, <http://dx.doi.org/10.1002/2014JC010101>
- Tang, W., S. H. Yueh, A. G. Fore, A. Hayashi, T. Lee, and G. Lagerloef, 2014: Uncertainty of Aquarius sea surface salinity retrieved under rainy conditions and its implication on the water cycle study. *Journal of Geophysical Research: Oceans*, **119**, 4821-4839, <http://dx.doi.org/10.1002/2014JC009834>
- Tang, Y., Z. Deng, K. K. Manoj, and D. Chen, 2014: A practical scheme of the sigma-point Kalman filter for high-dimensional systems. *Journal of Advances in Modeling Earth Systems*, **6**, 21-37, <http://dx.doi.org/10.1002/2013MS000255>
- Tarakanov, R. Y., 2014: Jets of the Antarctic Circumpolar Current in the central part of the Drake Passage based on the survey data in October–November of 2008. *Oceanology*, **54**, 1-7, <http://dx.doi.org/10.1134/S000143701401010X>
- Tarakanov, R. Y. and A. M. Gritsenko, 2014: The frontal and jet structure south of Africa based on the data of the SR02 section in December of 2009. *Oceanology*, **54**, 401-413, <http://dx.doi.org/10.1134/S0001437014030138>
- Thomas, M. D., A. M. De Boer, H. L. Johnson, and D. P. Stevens, 2014: Spatial and Temporal Scales of Sverdrup Balance. *Journal of Physical Oceanography*, **44**, 2644-2660, <http://dx.doi.org/10.1175/JPO-D-13-0192.1>
- Tozuka, T. and M. F. Cronin, 2014: Role of mixed layer depth in surface frontogenesis: The Agulhas Return Current front. *Geophysical Research Letters*, **41**, 2447-2453, <http://dx.doi.org/10.1002/2014GL059624>
- Trani, M., P. Falco, E. Zambianchi, and J. B. Sallée, 2014: Aspects of the Antarctic Circumpolar Current dynamics investigated with drifter data. *Progress in Oceanography*, **125**, 1-15, <http://dx.doi.org/10.1016/j.pocean.2014.05.001>
- Tréguer, P., E. Goberville, N. Barrier, S. L'Helguen, P. Morin, Y. Bozec, P. Rimmelin-Maury, M. Czamanski, E. Grossteffan, T. Cariou, M. Répécaud, and L. Quéméner, 2014: Large and local-scale influences on physical and chemical characteristics of coastal waters of Western Europe during winter. *Journal of Marine Systems*, **139**, 79-90, <http://dx.doi.org/10.1016/j.jmarsys.2014.05.019>
- Trenberth, K. E., J. T. Fasullo, and M. A. Balmaseda, 2014: Earth's Energy Imbalance. *Journal of Climate*, **27**, 3129-3144, <http://dx.doi.org/10.1175/JCLI-D-13-00294.1>
- Umbert, M., N. Hoareau, A. Turiel, and J. Ballabrera-Poy, 2014: New blending algorithm to

- synergize ocean variables: The case of SMOS sea surface salinity maps. *Remote Sensing of Environment*, **146**, 172-187, <http://dx.doi.org/10.1016/j.rse.2013.09.018>
- Valdivieso, M., K. Haines, H. Zuo, and D. Lea, 2014: Freshwater and heat transports from global ocean synthesis. *Journal of Geophysical Research: Oceans*, **119**, 394-409, <http://dx.doi.org/10.1002/2013JC009357>
- Velaoras, D., G. Krokos, K. Nittis, and A. Theocharis, 2014: Dense intermediate water outflow from the Cretan Sea: A salinity driven, recurrent phenomenon, connected to thermohaline circulation changes. *Journal of Geophysical Research: Oceans*, **119**, 4797-4820, <http://dx.doi.org/10.1002/2014JC009937>
- Veneziani, M., A. Griffa, Z. Garraffo, and J. A. Mensa, 2014: Barrier Layers in the Tropical South Atlantic: Mean Dynamics and Submesoscale Effects*. *Journal of Physical Oceanography*, **44**, 265-288, <http://dx.doi.org/10.1175/JPO-D-13-064.1>
- Vergely, J.-L., P. Waldteufel, J. Boutin, X. Yin, P. Spurgeon, and S. Delwart, 2014: New total electron content retrieval improves SMOS sea surface salinity. *Journal of Geophysical Research: Oceans*, **119**, 7295-7307, <http://dx.doi.org/10.1002/2014JC010150>
- Vernieres, G., R. Kovach, C. Keppenne, S. Akella, L. Brucker, and E. Dinnat, 2014: The impact of the assimilation of Aquarius sea surface salinity data in the GEOS ocean data assimilation system. *Journal of Geophysical Research: Oceans*, **119**, 6974-6987, <http://dx.doi.org/10.1002/2014JC010006>
- Vinogradova, N. T., R. M. Ponte, I. Fukumori, and O. Wang, 2014: Estimating satellite salinity errors for assimilation of Aquarius and SMOS data into climate models. *Journal of Geophysical Research: Oceans*, **119**, 4732-4744, <http://dx.doi.org/10.1002/2014JC009906>
- von Schuckmann, K., J. B. Sallée, D. Chambers, P. Y. Le Traon, C. Cabanes, F. Gaillard, S. Speich, and M. Hamon, 2014: Consistency of the current global ocean observing systems from an Argo perspective. *Ocean Science*, **10**, 547-557, <http://dx.doi.org/10.5194/os-10-547-2014>
- Wada, A., T. Uehara, and S. Ishizaki, 2014: Typhoon-induced sea surface cooling during the 2011 and 2012 typhoon seasons: observational evidence and numerical investigations of the sea surface cooling effect using typhoon simulations. *Progress in Earth and Planetary Science*, **1**, 11, <http://dx.doi.org/10.1186/2197-4284-1-11>
- Wagawa, T., S.-I. Ito, Y. Shimizu, S. Takehi, and D. Ambe, 2014: Currents Associated with the Quasi-Stationary Jet Separated from the Kuroshio Extension. *Journal of Physical Oceanography*, **44**, 1636-1653, <http://dx.doi.org/10.1175/JPO-D-12-0192.1>
- Wahlberg, M., H. Westerberg, K. Aarestrup, E. Feunteun, P. Gargan, and D. Righton, 2014: Evidence of marine mammal predation of the European eel (*Anguilla anguilla* L.) on its marine migration. *Deep Sea Research Part I: Oceanographic Research Papers*, **86**, 32-38, <http://dx.doi.org/10.1016/j.dsr.2014.01.003>
- Wang, J., M. R. Mazloff, and S. T. Gille, 2014: Pathways of the Agulhas waters poleward of 29°S. *Journal of Geophysical Research: Oceans*, **119**, 4234-4250, <http://dx.doi.org/10.1002/2014JC010049>
- Wang, X., C. Wang, G. Han, W. Li, and X. Wu, 2014: Effects of tropical cyclones on large-scale circulation and ocean heat transport in the South China Sea. *Climate Dynamics*, **43**, 3351-3366, <http://dx.doi.org/10.1007/s00382-014-2109-5>

- Wang, Z., S. F. DiMarco, S. Ingle, L. Belabbassi, and L. H. Al-Kharusi, 2014: Seasonal and annual variability of vertically migrating scattering layers in the northern Arabian Sea. *Deep Sea Research Part I: Oceanographic Research Papers*, **90**, 152-165, <http://dx.doi.org/10.1016/j.dsr.2014.05.008>
- Wang, Z., X. Tong, and H. Lu, 2014: New sea surface salinity retrieval methods based on SMOS data. *International Journal of Remote Sensing*, **35**, 4371-4382, <http://dx.doi.org/10.1080/01431161.2014.916448>
- Waterhouse, A. F., J. A. MacKinnon, J. D. Nash, M. H. Alford, E. Kunze, H. L. Simmons, K. L. Polzin, L. C. St. Laurent, O. M. Sun, R. Pinkel, L. D. Talley, C. B. Whalen, T. N. Huussen, G. S. Carter, I. Fer, S. Waterman, A. C. Naveira Garabato, T. B. Sanford, and C. M. Lee, 2014: Global Patterns of Diapycnal Mixing from Measurements of the Turbulent Dissipation Rate. *Journal of Physical Oceanography*, **44**, 1854-1872, <http://dx.doi.org/10.1175/JPO-D-13-0104.1>
- Webber, B. G. M., A. J. Matthews, K. J. Heywood, J. Kaiser, and S. Schmidtko, 2014: Seaglider observations of equatorial Indian Ocean Rossby waves associated with the Madden-Julian Oscillation. *Journal of Geophysical Research: Oceans*, **119**, 3714-3731, <http://dx.doi.org/10.1002/2013JC009657>
- Weeding, B. and T. W. Trull, 2014: Hourly oxygen and total gas tension measurements at the Southern Ocean Time Series site reveal winter ventilation and spring net community production. *Journal of Geophysical Research: Oceans*, **119**, 348-358, <http://dx.doi.org/10.1002/2013JC009302>
- Wei, M., C. Rowley, P. Martin, C. N. Barron, and G. Jacobs, 2014: The US Navy's RELO ensemble prediction system and its performance in the Gulf of Mexico. *Quarterly Journal of the Royal Meteorological Society*, **140**, 1129-1149, <http://dx.doi.org/10.1002/qj.2199>
- Wen, C., A. Kumar, Y. Xue, and M. J. McPhaden, 2014: Changes in Tropical Pacific Thermocline Depth and Their Relationship to ENSO after 1999. *Journal of Climate*, **27**, 7230-7249, <http://dx.doi.org/10.1175/JCLI-D-13-00518.1>
- White, R. H. and R. Toumi, 2014: River flow and ocean temperatures: The Congo River. *Journal of Geophysical Research: Oceans*, **119**, 2501-2517, <http://dx.doi.org/10.1002/2014JC009836>
- Williams, R. G., V. Roussenov, D. Smith, and M. S. Lozier, 2014: Decadal Evolution of Ocean Thermal Anomalies in the North Atlantic: The Effects of Ekman, Overturning, and Horizontal Transport. *Journal of Climate*, **27**, 698-719, <http://dx.doi.org/10.1175/JCLI-D-12-00234.1>
- Wu, Q., J. Zhao, J. Zhang, W. Shi, and C. Liu, 2014: The bimodality of the Luzon Strait deep water. *Acta Oceanologica Sinica*, **33**, 17-27, <http://dx.doi.org/10.1007/s13131-014-0475-9>
- Wu, X., Q. Zhang, and Z. Liu, 2014: Annual and interannual variations of the Western Pacific Warm Pool volume and sources of warm water revealed by Argo data. *Science China Earth Sciences*, **57**, 2269-2280, <http://dx.doi.org/10.1007/s11430-014-4893-5>
- Wunsch, C. and P. Heimbach, 2014: Bidecadal Thermal Changes in the Abyssal Ocean. *Journal of Physical Oceanography*, **44**, 2013-2030, <http://dx.doi.org/10.1175/JPO-D-13-096.1>

- Xie, P., T. Boyer, E. Bayler, Y. Xue, D. Byrne, J. Reagan, R. Locarnini, F. Sun, R. Joyce, and A. Kumar, 2014: An in situ-satellite blended analysis of global sea surface salinity. *Journal of Geophysical Research: Oceans*, **119**, 6140-6160, <http://dx.doi.org/10.1002/2014JC010046>
- Xing, X., H. Claustre, J. Uitz, A. Mignot, A. Poteau, and H. Wang, 2014: Seasonal variations of bio-optical properties and their interrelationships observed by Bio-Argo floats in the subpolar North Atlantic. *Journal of Geophysical Research: Oceans*, **119**, 7372-7388, <http://dx.doi.org/10.1002/2014JC010189>
- Xing, X., H. Claustre, H. Wang, A. Poteau, and F. D'Ortenzio, 2014: Seasonal dynamics in colored dissolved organic matter in the Mediterranean Sea: Patterns and drivers. *Deep Sea Research Part I: Oceanographic Research Papers*, **83**, 93-101, <http://dx.doi.org/10.1016/j.dsr.2013.09.008>
- Xu, F.-H. and L.-Y. Oey, 2014: State analysis using the Local Ensemble Transform Kalman Filter (LETKF) and the three-layer circulation structure of the Luzon Strait and the South China Sea. *Ocean Dynamics*, **64**, 905-923, <http://dx.doi.org/10.1007/s10236-014-0720-y>
- Xu, L., S.-P. Xie, J. L. McClean, Q. Liu, and H. Sasaki, 2014: Mesoscale eddy effects on the subduction of North Pacific mode waters. *Journal of Geophysical Research: Oceans*, **119**, 4867-4886, <http://dx.doi.org/10.1002/2014JC009861>
- Xu, X., E. P. Chassignet, W. E. Johns, W. J. Schmitz, and E. J. Metzger, 2014: Intraseasonal to interannual variability of the Atlantic meridional overturning circulation from eddy-resolving simulations and observations. *Journal of Geophysical Research: Oceans*, **119**, 5140-5159, <http://dx.doi.org/10.1002/2014JC009994>
- Yang, X.-Y. and Z. He, 2014: Decadal change of Antarctic Intermediate Water in the region of Brazil and Malvinas confluence. *Deep Sea Research Part I: Oceanographic Research Papers*, **88**, 1-7, <http://dx.doi.org/10.1016/j.dsr.2014.02.007>
- Yasunaka, S., Y. Nojiri, S.-i. Nakaoka, T. Ono, F. A. Whitney, and M. Telszewski, 2014: Mapping of sea surface nutrients in the North Pacific: Basin-wide distribution and seasonal to interannual variability. *Journal of Geophysical Research: Oceans*, **119**, 7756-7771, <http://dx.doi.org/10.1002/2014JC010318>
- Yin, X., J. Boutin, N. Martin, P. Spurgeon, J.-L. Vergely, and F. Gaillard, 2014: Errors in SMOS Sea Surface Salinity and their dependency on a priori wind speed. *Remote Sensing of Environment*, **146**, 159-171, <http://dx.doi.org/10.1016/j.rse.2013.09.008>
- Yin, X., J. Boutin, G. Reverdin, T. Lee, S. Arnault, and N. Martin, 2014: SMOS Sea Surface Salinity signals of tropical instability waves. *Journal of Geophysical Research: Oceans*, **119**, 7811-7826, <http://dx.doi.org/10.1002/2014JC009960>
- Yu, L., 2014: Coherent evidence from Aquarius and Argo for the existence of a shallow low-salinity convergence zone beneath the Pacific ITCZ. *Journal of Geophysical Research: Oceans*, **119**, 7625-7644, <http://dx.doi.org/10.1002/2014JC010030>
- Yuan, D., Z. Zhang, P. C. Chu, and W. K. Dewar, 2014: Geostrophic Circulation in the Tropical North Pacific Ocean Based on Argo Profiles. *Journal of Physical Oceanography*, **44**, 558-575, <http://dx.doi.org/10.1175/JPO-D-12-0230.1>
- Yuan, Y., G. Liao, C. Yang, Z. Liu, H. Chen, and Z.-G. Wang, 2014: Summer Kuroshio Intrusion through the Luzon Strait confirmed from observations and a diagnostic model in

- summer 2009. *Progress in Oceanography*, **121**, 44-59,
<http://dx.doi.org/10.1016/j.pocean.2013.10.003>
- Yuan, Y., Y.-H. Tseng, C. Yang, G. Liao, C. H. Chow, Z. Liu, X.-H. Zhu, and H. Chen, 2014: Variation in the Kuroshio intrusion: Modeling and interpretation of observations collected around the Luzon Strait from July 2009 to March 2011. *Journal of Geophysical Research: Oceans*, **119**, 3447-3463,
<http://dx.doi.org/10.1002/2013JC009776>
- Yueh, S., W. Tang, A. Fore, A. Hayashi, Y. T. Song, and G. Lagerloef, 2014: Aquarius geophysical model function and combined active passive algorithm for ocean surface salinity and wind retrieval. *Journal of Geophysical Research: Oceans*, **119**, 5360-5379, <http://dx.doi.org/10.1002/2014JC009939>
- Zambon, J. B., R. He, and J. C. Warner, 2014: Investigation of hurricane Ivan using the coupled ocean-atmosphere-wave-sediment transport (COAWST) model. *Ocean Dynamics*, **64**, 1535-1554, <http://dx.doi.org/10.1007/s10236-014-0777-7>
- Zeng, L., W. Timothy Liu, H. Xue, P. Xiu, and D. Wang, 2014: Freshening in the South China Sea during 2012 revealed by Aquarius and in situ data. *Journal of Geophysical Research: Oceans*, **119**, 8296-8314, <http://dx.doi.org/10.1002/2014JC010108>
- Zeng, X., S. Peng, Z. Li, Y. Qi, and R. Chen, 2014: A reanalysis dataset of the South China Sea. *Scientific Data*, **1**, <http://dx.doi.org/10.1038/sdata.2014.52>
- Zhai, F., Q. Wang, F. Wang, and D. Hu, 2014: Variation of the North Equatorial Current, Mindanao Current, and Kuroshio Current in a high-resolution data assimilation during 2008-2012. *Advances in Atmospheric Sciences*, **31**, 1445-1459,
<http://dx.doi.org/10.1007/s00376-014-3241-1>
- Zhang, D., M. J. McPhaden, and T. Lee, 2014: Observed interannual variability of zonal currents in the equatorial Indian Ocean thermocline and their relation to Indian Ocean Dipole. *Geophysical Research Letters*, **41**, 7933-7941,
<http://dx.doi.org/10.1002/2014GL061449>
- Zhang, L., D. Hu, S. Hu, F. Wang, F. Wang, and D. Yuan, 2014: Mindanao Current/Undercurrent measured by a subsurface mooring. *Journal of Geophysical Research: Oceans*, **119**, 3617-3628, <http://dx.doi.org/10.1002/2013JC009693>
- Zhang, L. and T. Qu, 2014: Low-frequency variability of South Pacific Tropical Water from Argo. *Geophysical Research Letters*, **41**, 2441-2446,
<http://dx.doi.org/10.1002/2014GL059490>
- Zhang, S., Y. S. Chang, X. Yang, and A. Rosati, 2014: Balanced and Coherent Climate Estimation by Combining Data with a Biased Coupled Model. *Journal of Climate*, **27**, 1302-1314, <http://dx.doi.org/10.1175/JCLI-D-13-00260.1>
- Zhang, W. and X.-H. Yan, 2014: Lateral Heat Exchange after the Labrador Sea Deep Convection in 2008. *Journal of Physical Oceanography*, **44**, 2991-3007,
<http://dx.doi.org/10.1175/JPO-D-13-0198.1>
- Zhang, Z., W. Wang, and B. Qiu, 2014: Oceanic mass transport by mesoscale eddies. *Science*, **345**, 322-324, <http://dx.doi.org/10.1126/science.1252418>
- Zhang, Z., Y. Zhong, J. Tian, Q. Yang, and W. Zhao, 2014: Estimation of eddy heat transport in the global ocean from Argo data. *Acta Oceanologica Sinica*, **33**, 42-47,
<http://dx.doi.org/10.1007/s13131-014-0421-x>

- Zhao, M., H. Hendon, O. Alves, and Y. Yin, 2014: Impact of improved assimilation of temperature and salinity for coupled model seasonal forecasts. *Climate Dynamics*, **42**, 2565-2583, <http://dx.doi.org/10.1007/s00382-014-2081-0>
- Zhao, Y., J. Zhu, M. Lin, C. Chen, X. Huang, H. Wang, Y. Zhang, and H. Peng, 2014: Assessment of the initial sea surface temperature product of the scanning microwave radiometer aboard on HY-2 satellite. *Acta Oceanologica Sinica*, **33**, 109-113, <http://dx.doi.org/10.1007/s13131-014-0402-0>
- Zheng, F., R.-H. Zhang, and J. Zhu, 2014: Effects of interannual salinity variability on the barrier layer in the western-central equatorial Pacific: A diagnostic analysis from Argo. *Advances in Atmospheric Sciences*, **31**, 532-542, <http://dx.doi.org/10.1007/s00376-013-3061-8>
- Zheng, Z.-W. and Q. Zheng, 2014: Variability of island-induced ocean vortex trains, in the Kuroshio region southeast of Taiwan Island. *Continental Shelf Research*, **81**, 1-6, <http://dx.doi.org/10.1016/j.csr.2014.02.010>
- Zheng, Z.-W., Q. Zheng, C.-Y. Lee, and G. Gopalakrishnan, 2014: Transient modulation of Kuroshio upper layer flow by directly impinging typhoon Morakot in east of Taiwan in 2009. *Journal of Geophysical Research: Oceans*, **119**, 4462-4473, <http://dx.doi.org/10.1002/2014JC010090>
- Zhu, J., B. Huang, R.-H. Zhang, Z.-Z. Hu, A. Kumar, M. A. Balmaseda, L. Marx, and J. L. Kinter III, 2014: Salinity anomaly as a trigger for ENSO events. *Scientific Reports*, **4**, <http://dx.doi.org/10.1038/srep06821>
- Zilberman, N. V., D. H. Roemmich, and S. T. Gille, 2014: Meridional volume transport in the South Pacific: Mean and SAM-related variability. *Journal of Geophysical Research: Oceans*, **119**, 2658-2678, <http://dx.doi.org/10.1002/2013JC009688>

2013 (302)

- Abe, H., K. Hanawa, and N. Ebuchi, 2013: Interannual variations in the Hawaiian Lee Countercurrent. *Journal of Oceanography*, **69**, 191-202, <http://dx.doi.org/10.1007/s10872-012-0166-0>
- Abraham, J. P., M. Baringer, N. L. Bindoff, T. Boyer, L. J. Cheng, J. A. Church, J. L. Conroy, C. M. Domingues, J. T. Fasullo, J. Gilson, G. Goni, S. A. Good, J. M. Gorman, V. Gouretski, M. Ishii, G. C. Johnson, S. Kizu, J. M. Lyman, A. M. Macdonald, W. J. Minkowycz, S. E. Moffitt, M. D. Palmer, A. R. Piola, F. Reseghetti, K. Schuckmann, K. E. Trenberth, I. Velicogna, and J. K. Willis, 2013: A review of global ocean temperature observations: Implications for ocean heat content estimates and climate change. *Reviews of Geophysics*, **51**, 450-483, <http://dx.doi.org/10.1002/rog.20022>
- Amorim, F. N., M. Cirano, M. Marta-Almeida, J. F. Middleton, and E. J. D. Campos, 2013: The seasonal circulation of the Eastern Brazilian shelf between 10°S and 16°S: A modelling approach. *Continental Shelf Research*, **65**, 121-140, <http://dx.doi.org/10.1016/j.csr.2013.06.008>
- Anav, A., P. Friedlingstein, M. Kidston, L. Bopp, P. Ciais, P. Cox, C. Jones, M. Jung, R. Myneni, and Z. Zhu, 2013: Evaluating the Land and Ocean Components of the Global Carbon Cycle in the CMIP5 Earth System Models. *Journal of Climate*, **26**, 6801-6843,

- <http://dx.doi.org/10.1175/JCLI-D-12-00417.1>
- Aoyama, M., M. Uematsu, D. Tsumune, and Y. Hamajima, 2013: Surface pathway of radioactive plume of TEPCO Fukushima NPP1 released ¹³⁴Cs and ¹³⁷Cs. *Biogeosciences*, **10**, 3067-3078, <https://doi.org/10.5194/bg-10-3067-2013>
- Atkinson, C. P., N. A. Rayner, J. Roberts-Jones, and R. O. Smith, 2013: Assessing the quality of sea surface temperature observations from drifting buoys and ships on a platform-by-platform basis. *Journal of Geophysical Research: Oceans*, **118**, 3507-3529, <http://dx.doi.org/10.1002/jgrc.20257>
- Azaneu, M., R. Kerr, M. M. Mata, and C. A. E. Garcia, 2013: Trends in the deep Southern Ocean (1958–2010): Implications for Antarctic Bottom Water properties and volume export. *Journal of Geophysical Research: Oceans*, **118**, 4213-4227, <http://dx.doi.org/10.1002/jgrc.20303>
- Badin, G., R. G. Williams, Z. Jing, and L. Wu, 2013: Water Mass Transformations in the Southern Ocean Diagnosed from Observations: Contrasting Effects of Air–Sea Fluxes and Diapycnal Mixing. *Journal of Physical Oceanography*, **43**, 1472-1484, <http://dx.doi.org/10.1175/JPO-D-12-0216.1>
- Ballent, A., S. Pando, A. Purser, M. F. Juliano, and L. Thomsen, 2013: Modelled transport of benthic marine microplastic pollution in the Nazaré Canyon. *Biogeosciences*, **10**, 7957-7970, <http://dx.doi.org/10.5194/bg-10-7957-2013>
- Balmaseda, M., K. Mogensen, and A. T. Weaver, 2013: Evaluation of the ECMWF ocean reanalysis system ORAS4. *Quarterly Journal of the Royal Meteorological Society*, **139**, 1132-1161, <http://dx.doi.org/10.1002/qj.2063>
- Balmaseda, M., K. E. Trenberth, and E. Källén, 2013: Distinctive climate signals in reanalysis of global ocean heat content. *Geophysical Research Letters*, **40**, 1754-1759, <http://dx.doi.org/10.1002/grl.50382>
- Bashmachnikov, I., D. Boutov, and J. Dias, 2013: Manifestation of two meddies in altimetry and sea-surface temperature. *Ocean Science*, **9**, 249-259, <http://dx.doi.org/10.5194/os-9-249-2013>
- Behnisch, M., A. Macrander, O. Boebel, J. O. Wolff, and J. Schröter, 2013: Barotropic and deep-referenced baroclinic SSH variability derived from Pressure Inverted Echo Sounders (PIES) south of Africa. *Journal of Geophysical Research: Oceans*, **118**, 3046-3058, <http://dx.doi.org/10.1002/jgrc.20195>
- Belmadani, A., N. A. Maximenko, J. P. McCreary, R. Furue, O. V. Melnichenko, N. Schneider, and E. D. Lorenzo, 2013: Linear Wind-Forced Beta Plumes with Application to the Hawaiian Lee Countercurrent*. *Journal of Physical Oceanography*, **43**, 2071-2094, <http://dx.doi.org/10.1175/JPO-D-12-0194.1>
- Bensi, M., V. Cardin, A. Rubino, G. Notarstefano, and P. M. Poulain, 2013: Effects of winter convection on the deep layer of the Southern Adriatic Sea in 2012. *Journal of Geophysical Research: Oceans*, **118**, 6064-6075, <http://dx.doi.org/10.1002/2013JC009432>
- Bessièrès, L., M. H. Rio, C. Dufau, C. Boone, and M. I. Pujol, 2013: Ocean state indicators from MyOcean altimeter products. *Ocean Science*, **9**, 545-560, <http://dx.doi.org/10.5194/os-9-545-2013>
- Bhaskar, T. V. S., E. P. R. Rao, V. Reddem, and R. Devender, 2013: *A note on three way quality*

control of Argo temperature and salinity profiles - A semi-automated approach at INCOIS. Vol. 5, 1510-1514 pp.

- Bhaskar, T. V. S. U., C. Jayaram, and E. P. Rama Rao, 2013: Comparison between Argo-derived sea surface temperature and microwave sea surface temperature in tropical Indian Ocean. *Remote Sensing Letters*, **4**, 141-150, <http://dx.doi.org/10.1080/2150704X.2012.711955>
- Bhaskar, T. V. S. U., R. V. Seshu, E. P. R. Rao, and R. Devender, 2013: GUI based interactive system for Visual Quality Control of Argo data. *Indian Journal of Geo-Marine Sciences*, **42**, 580-586, <http://nopr.niscair.res.in/handle/123456789/24791>
- Billheimer, S. and L. D. Talley, 2013: Near cessation of Eighteen Degree Water renewal in the western North Atlantic in the warm winter of 2011–2012. *Journal of Geophysical Research: Oceans*, **118**, 6838-6853, <http://dx.doi.org/10.1002/2013JC009024>
- Bogucki, D. J. and G. Spiers, 2013: What percentage of the oceanic mixed layer is accessible to marine lidar? Global and the Gulf of Mexico prospective. *Optics Express*, **21**, 23997-24014, <http://dx.doi.org/10.1364/OE.21.023997>
- Bostock, H. C., P. J. Sutton, M. J. M. Williams, and B. N. Opdyke, 2013: Reviewing the circulation and mixing of Antarctic Intermediate Water in the South Pacific using evidence from geochemical tracers and Argo float trajectories. *Deep Sea Research Part I: Oceanographic Research Papers*, **73**, 84-98, <http://dx.doi.org/10.1016/j.dsr.2012.11.007>
- Boutin, J., N. Martin, G. Reverdin, X. Yin, and F. Gaillard, 2013: Sea surface freshening inferred from SMOS and ARGO salinity: impact of rain. *Ocean Science*, **9**, 183-192, <http://dx.doi.org/10.5194/os-9-183-2013>
- Boyer, T., S. Levitus, J. Antonov, J. R. Reagan, C. Schmid, and R. A. Locarnini, 2013: Sub-surface salinity. State of the Climate in 2012, Global Oceans. *Bulletin of the American Meteorological Society*, **94**, <http://dx.doi.org/10.1175/2013BAMSStateoftheClimate.1>
- Brankart, J.-M., 2013: Impact of uncertainties in the horizontal density gradient upon low resolution global ocean modelling. *Ocean Modelling*, **66**, 64-76, <http://dx.doi.org/10.1016/j.ocemod.2013.02.004>
- Brassington, G. B., 2013: Multicycle ensemble forecasting of sea surface temperature. *Geophysical Research Letters*, **40**, 2013GL057752, <http://dx.doi.org/10.1002/2013GL057752>
- Buckingham, C. E. and P. C. Cornillon, 2013: The contribution of eddies to striations in absolute dynamic topography. *Journal of Geophysical Research: Oceans*, **118**, 448-461, <http://dx.doi.org/10.1029/2012JC008231>
- Cabanes, C., A. Grouazel, K. von Schuckmann, M. Hamon, V. Turpin, C. Coatanoan, F. Paris, S. Guinehut, C. Boone, N. Ferry, C. de Boyer Montégut, T. Carval, G. Reverdin, S. Pouliquen, and P. Y. Le Traon, 2013: The CORA dataset: validation and diagnostics of in-situ ocean temperature and salinity measurements. *Ocean Science*, **9**, 1-18, <http://dx.doi.org/10.5194/os-9-1-2013>
- Cai, W. and Y. Qiu, 2013: An Observation-Based Assessment of Nonlinear Feedback Processes Associated with the Indian Ocean Dipole. *Journal of Climate*, **26**, 2880-2890, <http://dx.doi.org/10.1175/JCLI-D-12-00483.1>

- Callies, J. and R. Ferrari, 2013: Interpreting Energy and Tracer Spectra of Upper-Ocean Turbulence in the Submesoscale Range (1–200 km). *Journal of Physical Oceanography*, **43**, 2456-2474, <http://dx.doi.org/10.1175/JPO-D-13-063.1>
- Carton, X., B. Le Cann, A. Serpette, and J. Dubert, 2013: Interactions of surface and deep anticyclonic eddies in the Bay of Biscay. *Journal of Marine Systems*, **109–110, Supplement**, S45-S59, <http://dx.doi.org/10.1016/j.jmarsys.2011.09.014>
- Cerovečki, I., L. D. Talley, M. R. Mazloff, and G. Maze, 2013: Subantarctic Mode Water Formation, Destruction, and Export in the Eddy-Permitting Southern Ocean State Estimate. *Journal of Physical Oceanography*, **43**, 1485-1511, <http://dx.doi.org/10.1175/JPO-D-12-0121.1>
- Chang, Y.-S., S. Zhang, A. Rosati, T. L. Delworth, and W. F. Stern, 2013: An assessment of oceanic variability for 1960–2010 from the GFDL ensemble coupled data assimilation. *Climate Dynamics*, **40**, 775-803, <http://dx.doi.org/10.1007/s00382-012-1412-2>
- Chang, Y.-T., L. Du, S.-W. Zhang, and P.-F. Huang, 2013: Sea level variations in the tropical Pacific Ocean during two types of recent El Niño events. *Global and Planetary Change*, **108**, 119-127, <http://dx.doi.org/10.1016/j.gloplacha.2013.06.001>
- Chen, G., H. Xue, D. Wang, and Q. Xie, 2013: Observed near-inertial kinetic energy in the northwestern South China Sea. *Journal of Geophysical Research: Oceans*, **118**, 4965-4977, <http://dx.doi.org/10.1002/jgrc.20371>
- Chen, J. L., C. R. Wilson, and B. D. Tapley, 2013: Contribution of ice sheet and mountain glacier melt to recent sea level rise. *Nature Geosci*, **6**, 549-552, <http://dx.doi.org/10.1038/ngeo1829>
- Chen, X., D. Pan, Y. Bai, X. He, C.-T. A. Chen, and Z. Hao, 2013: Episodic phytoplankton bloom events in the Bay of Bengal triggered by multiple forcings. *Deep Sea Research Part I: Oceanographic Research Papers*, **73**, 17-30, <http://dx.doi.org/10.1016/j.dsr.2012.11.011>
- Chen, X., Y. Yan, X. Cheng, and Y. Qi, 2013: Performances of seven datasets in presenting the upper ocean heat content in the South China Sea. *Advances in Atmospheric Sciences*, **30**, 1331-1342, <http://dx.doi.org/10.1007/s00376-013-2132-1>
- Chen, X., Y. Zhang, M. Zhang, Y. Feng, Z. Wu, F. Qiao, and N. E. Huang, 2013: Intercomparison between observed and simulated variability in global ocean heat content using empirical mode decomposition, part I: modulated annual cycle. *Climate Dynamics*, **41**, 2797-2815, <http://dx.doi.org/10.1007/s00382-012-1554-2>
- Chiswell, S. M., 2013: Lagrangian Time Scales and Eddy Diffusivity at 1000 m Compared to the Surface in the South Pacific and Indian Oceans. *Journal of Physical Oceanography*, **43**, 2718-2732, <http://dx.doi.org/10.1175/JPO-D-13-044.1>
- Chiswell, S. M., J. Bradford-Grieve, M. G. Hadfield, and S. C. Kennan, 2013: Climatology of surface chlorophyll a, autumn-winter and spring blooms in the southwest Pacific Ocean. *Journal of Geophysical Research: Oceans*, **118**, 1003-1018, <http://dx.doi.org/10.1002/jgrc.20088>
- Close, S. E., A. C. Naveira Garabato, E. L. McDonagh, B. A. King, M. Biuw, and L. Boehme, 2013: Control of Mode and Intermediate Water Mass Properties in Drake Passage by the Amundsen Sea Low. *Journal of Climate*, **26**, 5102-5123,

- <http://dx.doi.org/10.1175/JCLI-D-12-00346.1>
- Cornuelle, B., G. Gopalakrishnan, M. Dzieciuch, and P. Worcester, 2013: Deep water acoustic propagation in the northern Philippine Sea: Comparison of observed ray travel times with a non-acoustic state estimate. *The Journal of the Acoustical Society of America*, **134**, 3982-3982, <http://dx.doi.org/10.1121/1.4830509>
- Couldrey, M. P., L. Jullion, A. C. Naveira Garabato, C. Rye, L. Herráiz-Borreguero, P. J. Brown, M. P. Meredith, and K. L. Speer, 2013: Remotely induced warming of Antarctic Bottom Water in the eastern Weddell gyre. *Geophysical Research Letters*, **40**, 2755-2760, <http://dx.doi.org/10.1002/grl.50526>
- Cronin, M., N. A. Bond, J. Thomas Farrar, H. Ichikawa, S. R. Jayne, Y. Kawai, M. Konda, B. Qiu, L. Rainville, and H. Tomita, 2013: Formation and erosion of the seasonal thermocline in the Kuroshio Extension Recirculation Gyre. *Deep Sea Research Part II: Topical Studies in Oceanography*, **85**, 62-74, <http://dx.doi.org/10.1016/j.dsr2.2012.07.018>
- Cummings, J. A. and O. M. Smedstad, 2013: Variational Data Assimilation for the Global Ocean. *Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications (Vol. II)*, S. K. Park and L. Xu, Eds., Springer Berlin Heidelberg, 303-343, http://dx.doi.org/10.1007/978-3-642-35088-7_13.
- Cunningham, S. A., C. D. Roberts, E. Frajka-Williams, W. E. Johns, W. Hobbs, M. D. Palmer, D. Rayner, D. A. Smeed, and G. McCarthy, 2013: Atlantic Meridional Overturning Circulation slowdown cooled the subtropical ocean. *Geophysical Research Letters*, **40**, 2013GL058464, <http://dx.doi.org/10.1002/2013GL058464>
- Da-Allada, C. Y., G. Alory, Y. du Penhoat, E. Kestenare, F. Durand, and N. M. Hounkonnou, 2013: Seasonal mixed-layer salinity balance in the tropical Atlantic Ocean: Mean state and seasonal cycle. *Journal of Geophysical Research: Oceans*, **118**, 332-345, <http://dx.doi.org/10.1029/2012JC008357>
- De Souza, J. M. A. C., A. De Moraes Paiva, and K. Von Schuckmann, 2013: New estimates for the heat flux across the Polar Front: spatial and temporal variability in recent years. *Antarctic Science*, **25**, 433-444, <http://dx.doi.org/10.1017/S0954102012001113>
- Deng, Z., J. Jin, F. Ji, F. Zhang, X. Jiang, W. Wang, and L. Kang, 2013: Estimating the Isonneutral Slope and Tracer Diffusion from Argo Observations. *Marine Geodesy*, **36**, 109-122, <http://dx.doi.org/10.1080/01490419.2012.699504>
- Dietze, H. and U. Loeptien, 2013: Revisiting "nutrient trapping" in global coupled biogeochemical ocean circulation models. *Global Biogeochemical Cycles*, **27**, 265-284, <http://dx.doi.org/10.1002/gbc.20029>
- Dobricic, S., 2013: An Application of Sequential Variational Method without Tangent Linear and Adjoint Model Integrations. *Monthly Weather Review*, **141**, 307-323, <http://dx.doi.org/10.1175/MWR-D-11-00012.1>
- Doi, T., S. K. Behera, and T. Yamagata, 2013: Predictability of the Ningaloo Nino/Nina. *Sci. Rep.*, **3**, <http://dx.doi.org/10.1038/srep02892>
- Dong, S. and K. A. Kelly, 2013: How Well Do Climate Models Reproduce North Atlantic Subtropical Mode Water? *Journal of Physical Oceanography*, **43**, 2230-2244, <http://dx.doi.org/10.1175/JPO-D-12-0215.1>
- Dréville, M., E. Greiner, D. Paradis, C. Payan, J.-M. Lellouche, G. Reffray, E. Durand, S. Law-Chune, and S. Cailleau, 2013: A strategy for producing refined currents in the

- Equatorial Atlantic in the context of the search of the AF447 wreckage. *Ocean Dynamics*, **63**, 63-82, <http://dx.doi.org/10.1007/s10236-012-0580-2>
- Duan, Y., Y. Hou, H. Liu, and Y. Liu, 2013: The water mass variability and southward shift of the Southern Hemisphere mid-depth supergyre. *Acta Oceanologica Sinica*, **32**, 74-81, <http://dx.doi.org/10.1007/s13131-013-0380-7>
- Durack, P. J., S. Wijffels, and T. Boyer, 2013: Long-term Salinity Changes and Implications for the Global Water Cycle. *Ocean Circulation and Climate*, G. Siedler, S. M. Griffies, J. Gould, and J. A. Church, Eds., Academic Press,
- Durand, F., G. Alory, R. Dussin, and N. Reul, 2013: SMOS reveals the signature of Indian Ocean Dipole events. *Ocean Dynamics*, **63**, 1203-1212, <http://dx.doi.org/10.1007/s10236-013-0660-y>
- Dushaw, B. D., P. F. Worcester, M. A. Dzieciuch, and D. Menemenlis, 2013: On the time-mean state of ocean models and the properties of long range acoustic propagation. *Journal of Geophysical Research: Oceans*, **118**, 4346-4362, <http://dx.doi.org/10.1002/jgrc.20325>
- Enomoto, T., T. Miyoshi, Q. Moteki, J. Inoue, M. Hattori, A. Kuwano-Yoshida, N. Komori, and S. Yamane, 2013: Observing-System Research and Ensemble Data Assimilation at JAMSTEC. *Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications (Vol. II)*, S. K. Park and L. Xu, Eds., Springer Berlin Heidelberg, 509-526, http://dx.doi.org/10.1007/978-3-642-35088-7_21.
- Estapa, M. L., K. Buesseler, E. Boss, and G. Gerbi, 2013: Autonomous, high-resolution observations of particle flux in the oligotrophic ocean. *Biogeosciences*, **10**, 5517-5531, <http://dx.doi.org/10.5194/bg-10-5517-2013>
- Fan, X., U. Send, P. Testor, J. Karstensen, and P. Lherminier, 2013: Observations of Irminger Sea Anticyclonic Eddies. *Journal of Physical Oceanography*, **43**, 805-823, <http://dx.doi.org/10.1175/JPO-D-11-0155.1>
- Farrara, J. D., Y. Chao, Z. Li, X. Wang, X. Jin, H. Zhang, P. Li, Q. Vu, P. Q. Olsson, G. C. Schoch, M. Halverson, M. A. Moline, C. Ohlmann, M. Johnson, J. C. McWilliams, and F. A. Colas, 2013: A data-assimilative ocean forecasting system for the Prince William sound and an evaluation of its performance during sound Predictions 2009. *Continental Shelf Research*, **63, Supplement**, S193-S208, <http://dx.doi.org/10.1016/j.csr.2012.11.008>
- Fedak, M. A., 2013: The impact of animal platforms on polar ocean observation. *Deep Sea Research Part II: Topical Studies in Oceanography*, **88-89**, 7-13, <http://dx.doi.org/10.1016/j.dsr2.2012.07.007>
- Feng, G., S. Jin, and J. M. S. Reales, 2013: Antarctic circumpolar current from satellite gravimetric models ITG-GRACE2010, GOCE-TIM3 and satellite altimetry. *Journal of Geodynamics*, **72**, 72-80, <http://dx.doi.org/10.1016/j.jog.2013.08.005>
- Feng, M., M. J. McPhaden, S.-P. Xie, and J. Hafner, 2013: La Niña forces unprecedented Leeuwin Current warming in 2011. *Sci. Rep.*, **3**, <http://dx.doi.org/10.1038/srep01277>
- Fennel, K., J. Hu, A. Laurent, M. Marta-Almeida, and R. Hetland, 2013: Sensitivity of hypoxia predictions for the northern Gulf of Mexico to sediment oxygen consumption and model nesting. *Journal of Geophysical Research: Oceans*, **118**, 990-1002, <http://dx.doi.org/10.1002/jgrc.20077>

- Fiedler, B., P. Fietzek, N. Vieira, P. Silva, H. C. Bittig, and A. Körtzinger, 2013: In Situ CO₂ and O₂ Measurements on a Profiling Float. *Journal of Atmospheric and Oceanic Technology*, **30**, 112-126, <http://dx.doi.org/10.1175/JTECH-D-12-00043.1>
- Foltz, G. R., C. Schmid, and R. Lumpkin, 2013: Seasonal Cycle of the Mixed Layer Heat Budget in the Northeastern Tropical Atlantic Ocean. *Journal of Climate*, **26**, 8169-8188, <http://dx.doi.org/10.1175/JCLI-D-13-00037.1>
- Font, J., J. Boutin, N. Reul, P. Spurgeon, J. Ballabrera-Poy, A. Chuprin, C. Gabarró, J. Gouillon, S. Guimard, C. Hénocq, S. Lavender, N. Martin, J. Martínez, M. McCulloch, I. Meirold-Mautner, C. Mugerin, F. Petitcolin, M. Portabella, R. Sabia, M. Talone, J. Tenerelli, A. Turiel, J.-L. Vergely, P. Waldeufel, X. Yin, S. Zine, and S. Delwart, 2013: SMOS first data analysis for sea surface salinity determination. *International Journal of Remote Sensing*, **34**, 3654-3670, <http://dx.doi.org/10.1080/01431161.2012.716541>
- Freeland, H. J., 2013: Vertical velocity estimates in the North Pacific using Argo floats. *Deep Sea Research Part II: Topical Studies in Oceanography*, **85**, 75-80, <http://dx.doi.org/10.1016/j.dsr2.2012.07.019>
- Freeland, H. J., 2013: Evidence of Change in the Winter Mixed Layer in the Northeast Pacific Ocean: A Problem Revisited. *Atmosphere-Ocean*, **51**, 126-133, <http://dx.doi.org/10.1080/07055900.2012.754330>
- Fu, H., P. C. Chu, G. Han, Z. He, W. Li, and X. Zhang, 2013: Improvement of short-term forecasting in the northwest Pacific through assimilating Argo data into initial fields. *Acta Oceanologica Sinica*, **32**, 57-65, <http://dx.doi.org/10.1007/s13131-013-0332-2>
- Garzoli, S. L., M. O. Baringer, S. Dong, R. C. Perez, and Q. Yao, 2013: South Atlantic meridional fluxes. *Deep Sea Research Part I: Oceanographic Research Papers*, **71**, 21-32, <http://dx.doi.org/10.1016/j.dsr.2012.09.003>
- Gaube, P., D. B. Chelton, P. G. Strutton, and M. J. Behrenfeld, 2013: Satellite observations of chlorophyll, phytoplankton biomass, and Ekman pumping in nonlinear mesoscale eddies. *Journal of Geophysical Research: Oceans*, **118**, 6349-6370, <http://dx.doi.org/10.1002/2013JC009027>
- Gelderloos, R., C. A. Katsman, and K. Våge, 2013: Detecting Labrador Sea Water formation from space. *Journal of Geophysical Research: Oceans*, **118**, 2074-2086, <http://dx.doi.org/10.1002/jgrc.20176>
- Giglio, D., D. Roemmich, and B. Cornuelle, 2013: Understanding the annual cycle in global steric height. *Geophysical Research Letters*, **40**, 4349-4354, <http://dx.doi.org/10.1002/grl.50774>
- Girishkumar, M. S., M. Ravichandran, and M. J. McPhaden, 2013: Temperature inversions and their influence on the mixed layer heat budget during the winters of 2006–2007 and 2007–2008 in the Bay of Bengal. *Journal of Geophysical Research: Oceans*, **118**, 2426-2437, <http://dx.doi.org/10.1002/jgrc.20192>
- Goes, M., G. Goni, V. Hormann, and R. C. Perez, 2013: Variability of the Atlantic off-equatorial eastward currents during 1993–2010 using a synthetic method. *Journal of Geophysical Research: Oceans*, **118**, 3026-3045, <http://dx.doi.org/10.1002/jgrc.20186>
- Gómez Martín, J. C., A. S. Mahajan, T. D. Hay, C. Prados-Román, C. Ordóñez, S. M. MacDonald, J. M. C. Plane, M. Sorribas, M. Gil, J. F. Paredes Mora, M. V. Agama

- Reyes, D. E. Oram, E. Leedham, and A. Saiz-Lopez, 2013: Iodine chemistry in the eastern Pacific marine boundary layer. *Journal of Geophysical Research: Atmospheres*, **118**, 887-904, <http://dx.doi.org/10.1002/jgrd.50132>
- Good, S. A., M. J. Martin, and N. A. Rayner, 2013: EN4: Quality controlled ocean temperature and salinity profiles and monthly objective analyses with uncertainty estimates. *Journal of Geophysical Research: Oceans*, **118**, 6704-6716, <http://dx.doi.org/10.1002/2013JC009067>
- Gouretski, V., J. H. Jungclaus, and H. Haak, 2013: Revisiting the Meteor 1925–1927 hydrographic dataset reveals centennial full-depth changes in the Atlantic Ocean. *Geophysical Research Letters*, **40**, 2236-2241, <http://dx.doi.org/10.1002/grl.50503>
- Graham, R. M. and A. M. De Boer, 2013: The Dynamical Subtropical Front. *Journal of Geophysical Research: Oceans*, **118**, 5676-5685, <http://dx.doi.org/10.1002/jgrc.20408>
- Gregory, J. M., D. Bi, M. A. Collier, M. R. Dix, A. C. Hirst, A. Hu, M. Huber, R. Knutti, S. J. Marsland, M. Meinshausen, H. A. Rashid, L. D. Rotstayn, A. Schurer, and J. A. Church, 2013: Climate models without preindustrial volcanic forcing underestimate historical ocean thermal expansion. *Geophysical Research Letters*, **40**, 1600-1604, <http://dx.doi.org/10.1002/grl.50339>
- Griffa, A., A. Haza, T. M. Özgökmen, A. Molcard, V. Taillandier, K. Schroeder, Y. Chang, and P. M. Poulain, 2013: Investigating transport pathways in the ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, **85**, 81-95, <http://dx.doi.org/10.1016/j.dsr2.2012.07.031>
- Grunseich, G., B. Subrahmanyam, and B. Wang, 2013: The Madden-Julian oscillation detected in Aquarius salinity observations. *Geophysical Research Letters*, **40**, 5461-5466, <http://dx.doi.org/10.1002/2013GL058173>
- Guo, F., Q. Liu, X.-T. Zheng, and S. Sun, 2013: The role of barrier layer in southeastern Arabian Sea during the development of positive Indian Ocean Dipole events. *Journal of Ocean University of China*, **12**, 245-252, <http://dx.doi.org/10.1007/s11802-013-2170-4>
- Han, G., H. Fu, X. Zhang, W. Li, X. Wu, X. Wang, and L. Zhang, 2013: A global ocean reanalysis product in the China Ocean Reanalysis (CORA) project. *Advances in Atmospheric Sciences*, **30**, 1621-1631, <http://dx.doi.org/10.1007/s00376-013-2198-9>
- Han, G., W. Li, X. Zhang, X. Wang, X. Wu, H. Fu, X. Zhang, L. Zhang, and D. Li, 2013: A new version of regional ocean reanalysis for coastal waters of China and adjacent seas. *Advances in Atmospheric Sciences*, **30**, 974-982, <http://dx.doi.org/10.1007/s00376-012-2195-4>
- Harrison, D. E. and M. Carson, 2013: Recent sea level and upper ocean temperature variability and trends; cook islands regional results and perspective. *Climatic Change*, **119**, 37-48, <http://dx.doi.org/10.1007/s10584-012-0580-8>
- Hasegawa, T., K. Ando, I. Ueki, K. Mizuno, and S. Hosoda, 2013: Upper-Ocean Salinity Variability in the Tropical Pacific: Case Study for Quasi-Decadal Shift during the 2000s Using TRITON Buoys and Argo Floats. *Journal of Climate*, **26**, 8126-8138, <http://dx.doi.org/10.1175/JCLI-D-12-00187.1>
- Hasson, A., T. Delcroix, and J. Boutin, 2013: Formation and variability of the South Pacific Sea Surface Salinity maximum in recent decades. *Journal of Geophysical Research:*

- Oceans*, **118**, 5109-5116, <http://dx.doi.org/10.1002/jgrc.20367>
- Hasson, A., T. Delcroix, and R. Dussin, 2013: An assessment of the mixed layer salinity budget in the tropical Pacific Ocean. Observations and modelling (1990–2009). *Ocean Dynamics*, **63**, 179-194, <http://dx.doi.org/10.1007/s10236-013-0596-2>
- Henson, S. A., S. C. Painter, N. Penny Holliday, M. C. Stinchcombe, and S. L. C. Giering, 2013: Unusual subpolar North Atlantic phytoplankton bloom in 2010: Volcanic fertilization or North Atlantic Oscillation? *Journal of Geophysical Research: Oceans*, **118**, 4771-4780, <http://dx.doi.org/10.1002/jgrc.20363>
- Hjelmervik, K. T. and K. Hjelmervik, 2013: Estimating temperature and salinity profiles using empirical orthogonal functions and clustering on historical measurements. *Ocean Dynamics*, **63**, 809-821, <http://dx.doi.org/10.1007/s10236-013-0623-3>
- Hobbs, W. R. and J. K. Willis, 2013: Detection of an observed 135 year ocean temperature change from limited data. *Geophysical Research Letters*, **40**, 2252-2258, <http://dx.doi.org/10.1002/grl.50370>
- Holte, J., F. Straneo, C. Moffat, R. Weller, and J. T. Farrar, 2013: Structure and surface properties of eddies in the southeast Pacific Ocean. *Journal of Geophysical Research: Oceans*, **118**, 2295-2309, <http://dx.doi.org/10.1002/jgrc.20175>
- Holte, J., L. D. Talley, T. K. Chereskin, and B. M. Sloyan, 2013: Subantarctic mode water in the southeast Pacific: Effect of exchange across the Subantarctic Front. *Journal of Geophysical Research: Oceans*, **118**, 2052-2066, <http://dx.doi.org/10.1002/jgrc.20144>
- Hopkins, J., M. Lucas, C. Dufau, M. Sutton, J. Stum, O. Lauret, and C. Channelliere, 2013: Detection and variability of the Congo River plume from satellite derived sea surface temperature, salinity, ocean colour and sea level. *Remote Sensing of Environment*, **139**, 365-385, <http://dx.doi.org/10.1016/j.rse.2013.08.015>
- Horii, T., K. Mizuno, M. Nagura, T. Miyama, and K. Ando, 2013: Seasonal and interannual variation in the cross-equatorial meridional currents observed in the eastern Indian Ocean. *Journal of Geophysical Research: Oceans*, **118**, 6658-6671, <http://dx.doi.org/10.1002/2013JC009291>
- Horii, T., I. Ueki, K. Ando, and K. Mizuno, 2013: Eastern Indian Ocean warming associated with the negative Indian Ocean dipole: A case study of the 2010 event. *Journal of Geophysical Research: Oceans*, **118**, 536-549, <http://dx.doi.org/10.1002/jgrc.20071>
- Hu, D., S. Hu, L. Wu, L. Li, L. Zhang, X. Diao, Z. Chen, Y. Li, F. Wang, and D. Yuan, 2013: Direct Measurements of the Luzon Undercurrent. *Journal of Physical Oceanography*, **43**, 1417-1425, <http://dx.doi.org/10.1175/JPO-D-12-0165.1>
- Hu, R. and M. Wei, 2013: Intraseasonal oscillation in global ocean temperature inferred from Argo. *Advances in Atmospheric Sciences*, **30**, 29-40, <http://dx.doi.org/10.1007/s00376-012-2045-4>
- Hu, Z.-Z., A. Kumar, B. Huang, and J. Zhu, 2013: Leading Modes of the Upper-Ocean Temperature Interannual Variability along the Equatorial Atlantic Ocean in NCEP GODAS. *Journal of Climate*, **26**, 4649-4663, <http://dx.doi.org/10.1175/JCLI-D-12-00629.1>
- Hu, Z.-Z., A. Kumar, H.-L. Ren, H. Wang, M. L'Heureux, and F.-F. Jin, 2013: Weakened Interannual Variability in the Tropical Pacific Ocean since 2000. *Journal of Climate*, **26**, 2601-2613, <http://dx.doi.org/10.1175/JCLI-D-12-00265.1>

- Hummels, R., M. Dengler, and B. Bourlès, 2013: Seasonal and regional variability of upper ocean diapycnal heat flux in the Atlantic cold tongue. *Progress in Oceanography*, **111**, 52-74, <http://dx.doi.org/10.1016/j.pocean.2012.11.001>
- Iskandar, I., M. Irfan, and F. Saymsuddin, 2013: Why was the 2008 Indian Ocean Dipole a short-lived event? *Ocean Science Journal*, **48**, 149-160, <http://dx.doi.org/10.1007/s12601-013-0012-3>
- Jaffres, J. B. D., 2013: Mixed Layer Depth Seasonality within the Coral Sea Based on Argo Data. *PLoS ONE*, **8**, <http://dx.doi.org/10.1371/journal.pone.0060985>
- Jensen, L., R. Rietbroek, and J. Kusche, 2013: Land water contribution to sea level from GRACE and Jason-1 measurements. *Journal of Geophysical Research: Oceans*, **118**, 212-226, <http://dx.doi.org/10.1002/jgrc.20058>
- Jiang, Z.-P., D. J. Hydes, T. Tyrrell, S. E. Hartman, M. C. Hartman, C. Dumousseaud, X. A. Padin, I. Skjelvan, and C. González-Pola, 2013: Key controls on the seasonal and interannual variations of the carbonate system and air-sea CO₂ flux in the Northeast Atlantic (Bay of Biscay). *Journal of Geophysical Research: Oceans*, **118**, 785-800, <http://dx.doi.org/10.1002/jgrc.20087>
- Jin, S., T. van Dam, and S. Wdowinski, 2013: Observing and understanding the Earth system variations from space geodesy. *Journal of Geodynamics*, **72**, 1-10, <http://dx.doi.org/10.1016/j.jog.2013.08.001>
- Johnson, C., M. Inall, and S. Häkkinen, 2013: Declining nutrient concentrations in the northeast Atlantic as a result of a weakening Subpolar Gyre. *Deep Sea Research Part I: Oceanographic Research Papers*, **82**, 95-107, <http://dx.doi.org/10.1016/j.dsr.2013.08.007>
- Johnson, G. C., J. M. Lyman, G. Lagerloef, and H.-Y. Kao, 2013: Global Oceans: Sea Surface Salinity. In State of the Climate in 2012, Blunden, J. and D.S. Arndt, Eds. *Bulletin of the American Meteorological Society*, **94**, S57-S60, <http://dx.doi.org/10.1175/2013BAMSStateoftheClimate.1>
- Johnson, G. C., J. M. Lyman, J. K. Willis, S. Levitus, T. Boyer, J. Antonov, S. A. Good, C. M. Domingues, S. Wijffels, and N. L. Bindoff, 2013: Global Oceans: Ocean Heat Content. In State of the Climate in 2012, Blunden, J. and D. S. Arndt, Eds. *Bulletin of the American Meteorological Society*, **94**, S50-S53, <http://dx.doi.org/10.1175/2013BAMSStateoftheClimate.1>
- Jordà, G. and D. Gomis, 2013: Reliability of the steric and mass components of Mediterranean sea level as estimated from hydrographic gridded products. *Geophysical Research Letters*, **40**, 3655-3660, <http://dx.doi.org/10.1002/grl.50718>
- Jourdain, N. C., M. Lengaigne, J. Vialard, G. Madec, C. E. Menkes, E. M. Vincent, S. Jullien, and B. Barnier, 2013: Observation-Based Estimates of Surface Cooling Inhibition by Heavy Rainfall under Tropical Cyclones. *Journal of Physical Oceanography*, **43**, 205-221, <http://dx.doi.org/10.1175/JPO-D-12-085.1>
- Juza, M., L. Renault, S. Ruiz, and J. Tintoré, 2013: Origin and pathways of Winter Intermediate Water in the Northwestern Mediterranean Sea using observations and numerical simulation. *Journal of Geophysical Research: Oceans*, **118**, 6621-6633, <http://dx.doi.org/10.1002/2013JC009231>
- Karspeck, A. R., S. Yeager, G. Danabasoglu, T. Hoar, N. Collins, K. Raeder, J. Anderson, and J.

- Tribbia, 2013: An Ensemble Adjustment Kalman Filter for the CCSM4 Ocean Component. *Journal of Climate*, **26**, 7392-7413, <http://dx.doi.org/10.1175/JCLI-D-12-00402.1>
- Kashino, Y., 2013: Observational discovery of an eastward undercurrent below the North Equatorial Current. *OHM*, **100**, 96,
- Katsumata, K. and S. Masuda, 2013: Variability in Southern Hemisphere Ocean Circulation from the 1980s to the 2000s. *Journal of Physical Oceanography*, **43**, 1981-2007, <http://dx.doi.org/10.1175/JPO-D-12-0209.1>
- Katsumata, K., B. M. Sloyan, and S. Masuda, 2013: Diapycnal and Isopycnal Transports in the Southern Ocean Estimated by a Box Inverse Model. *Journal of Physical Oceanography*, **43**, 2270-2287, <http://dx.doi.org/10.1175/JPO-D-12-0210.1>
- Katsura, S., E. Oka, B. Qiu, and N. Schneider, 2013: Formation and Subduction of North Pacific Tropical Water and Their Interannual Variability. *Journal of Physical Oceanography*, **43**, 2400-2415, <http://dx.doi.org/10.1175/JPO-D-13-031.1>
- Keerthi, M. G., M. Lengaigne, J. Vialard, C. Boyer Montégut, and P. M. Muraleedharan, 2013: Interannual variability of the Tropical Indian Ocean mixed layer depth. *Climate Dynamics*, **40**, 743-759, <http://dx.doi.org/10.1007/s00382-012-1295-2>
- Kelly, K. A. and S. Dong, 2013: The contributions of atmosphere and ocean to North Atlantic Subtropical Mode Water volume anomalies. *Deep Sea Research Part II: Topical Studies in Oceanography*, **91**, 111-127, <http://dx.doi.org/10.1016/j.dsr2.2013.02.020>
- Kessler, W. S. and S. Cravatte, 2013: ENSO and Short-Term Variability of the South Equatorial Current Entering the Coral Sea. *Journal of Physical Oceanography*, **43**, 956-969, <http://dx.doi.org/10.1175/JPO-D-12-0113.1>
- Kessler, W. S. and S. Cravatte, 2013: Mean circulation of the Coral Sea. *Journal of Geophysical Research: Oceans*, **118**, 6385-6410, <http://dx.doi.org/10.1002/2013JC009117>
- Kim, E., D. Jeon, C. J. Jang, and J.-H. Park, 2013: Typhoon Rammasun-Induced Near-Inertial Oscillations Observed in the Tropical Northwestern Pacific Ocean. *Terrestrial Atmospheric and Oceanic Sciences*, **24**, 761-772, [http://dx.doi.org/10.3319/TAO.2013.03.28.01\(Oc\)](http://dx.doi.org/10.3319/TAO.2013.03.28.01(Oc))
- Knaff, J. A., M. DeMaria, C. R. Sampson, J. E. Peak, J. Cummings, and W. H. Schubert, 2013: Upper Oceanic Energy Response to Tropical Cyclone Passage. *Journal of Climate*, **26**, 2631-2650, <http://dx.doi.org/10.1175/JCLI-D-12-00038.1>
- Kobashi, F. and S.-P. Xie, 2013: Interannual variability of the North Pacific Subtropical Countercurrent: role of local ocean-atmosphere interaction. *New Developments in Mode-Water Research*, A. Kubokawa, S.-P. Xie, F. Kobashi, and H. Mitsudera, Eds., Springer Japan, 121-134, http://dx.doi.org/10.1007/978-4-431-54162-2_9.
- Kobayashi, T., 2013: Deep NINJA collects profiles down to 4,000 meters. *Sea Technology*, **54**, 41-44, https://www.sea-technology.com/features/2013/0213/deep_ninja.php
- Kobayashi, T., 2013: A realization of a profiling float for deep ocean observation. *Engineering Materials*, **61**, 67-70,
- Kobayashi, T. and M. Tachikawa, 2013: An introduction of a domestic deep float, DEEP NINJA, and its deep/bottom layer observations in the Southern Ocean. *JOS News Letter*, **3**,

- Kolodziejczyk, N. and F. Gaillard, 2013: Variability of the Heat and Salt Budget in the Subtropical Southeastern Pacific Mixed Layer between 2004 and 2010: Spice Injection Mechanism. *Journal of Physical Oceanography*, **43**, 1880-1898, <http://dx.doi.org/10.1175/JPO-D-13-04.1>
- Kouketsu, S., H. Tomita, E. Oka, S. Hosoda, T. Kobayashi, and K. Sato, 2013: The role of meso-scale eddies in mixed layer deepening and mode water formation in the western North Pacific. *New Developments in Mode-Water Research*, A. Kubokawa, S.-P. Xie, F. Kobashi, and H. Mitsudera, Eds., Springer Japan, 59-73, http://dx.doi.org/10.1007/978-4-431-54162-2_5.
- Krishnamurti, T. N., L. Stefanova, and V. Misra, 2013: Hurricane Observations. *Tropical Meteorology*, Springer New York, 317-330, http://dx.doi.org/10.1007/978-1-4614-7409-8_15.
- Kumar, A. and Z.-Z. Hu, 2013: Interannual and interdecadal variability of ocean temperature along the equatorial Pacific in conjunction with ENSO. *Climate Dynamics*, **42**, 1243-1258, <http://dx.doi.org/10.1007/s00382-013-1721-0>
- L'Hégaret, P., L. Lacour, X. Carton, G. Roullet, R. Baraille, and S. Corr  ard, 2013: A seasonal dipolar eddy near Ras Al Hamra (Sea of Oman). *Ocean Dynamics*, **63**, 633-659, <http://dx.doi.org/10.1007/s10236-013-0616-2>
- Lauvset, S. K., M. Chierici, F. Counillon, A. Omar, G. Nondal, T. Johannessen, and A. Olsen, 2013: Annual and seasonal fCO₂ and air-sea CO₂ fluxes in the Barents Sea. *Journal of Marine Systems*, **113-114**, 62-74, <http://dx.doi.org/10.1016/j.jmarsys.2012.12.011>
- Lavigne, H., F. D'Ortenzio, C. Mignon, H. Claustre, P. Testor, M. R. d'Alcal  , R. Lavezza, L. Houpert, and L. Prieur, 2013: Enhancing the comprehension of mixed layer depth control on the Mediterranean phytoplankton phenology. *Journal of Geophysical Research: Oceans*, **118**, 3416-3430, <http://dx.doi.org/10.1002/jgrc.20251>
- Le Traon, P. Y., 2013: From satellite altimetry to Argo and operational oceanography: three revolutions in oceanography. *Ocean Science*, **9**, 901-915, <http://dx.doi.org/10.5194/os-9-901-2013>
- Lellouche, J. M., O. Le Galloudec, M. Dr  villon, C. R  gnier, E. Greiner, G. Garric, N. Ferry, C. Desportes, C. E. Testut, C. Bricaud, R. Bourdall  -Badie, B. Tranchant, M. Benkiran, Y. Drillet, A. Daudin, and C. De Nicola, 2013: Evaluation of global monitoring and forecasting systems at Mercator Oc  an. *Ocean Science*, **9**, 57-81, <http://dx.doi.org/10.5194/os-9-57-2013>
- Levy, M., L. Bopp, P. Karleskind, L. Resplandy, C. Ethe, and F. Pinsard, 2013: Physical pathways for carbon transfers between the surface mixed layer and the ocean interior. *Global Biogeochemical Cycles*, **27**, 1001-1012, <http://dx.doi.org/10.1002/gbc.20092>
- Li, M., L. Xie, Q. Yang, and J. Tian, 2013: Impact of eddies on ocean diapycnal mixing in Gulf Stream region. *Science China Earth Sciences*, **57**, 1407-1414, <http://dx.doi.org/10.1007/s11430-013-4708-0>
- Li, Y., W. Han, T. Shinoda, C. Wang, R.-C. Lien, J. N. Moum, and J.-W. Wang, 2013: Effects of the diurnal cycle in solar radiation on the tropical Indian Ocean mixed layer variability during wintertime Madden-Julian Oscillations. *Journal of Geophysical Research: Oceans*, **118**, 4945-4964, <http://dx.doi.org/10.1002/jgrc.20395>

- Li, Y. and F. Wang, 2013: Thermohaline intrusions in the thermocline of the western tropical Pacific Ocean. *Acta Oceanologica Sinica*, **32**, 47-56, <http://dx.doi.org/10.1007/s13131-013-0331-3>
- Li, Y., F. Wang, and W. Han, 2013: Interannual sea surface salinity variations observed in the tropical North Pacific Ocean. *Geophysical Research Letters*, **40**, 2194-2199, <http://dx.doi.org/10.1002/grl.50429>
- Lin, I. I., P. Black, J. F. Price, C. Y. Yang, S. S. Chen, C. C. Lien, P. Harr, N. H. Chi, C. C. Wu, and E. A. D'Asaro, 2013: An ocean coupling potential intensity index for tropical cyclones. *Geophysical Research Letters*, **40**, 1878-1882, <http://dx.doi.org/10.1002/grl.50091>
- Lin, I. I., G. J. Goni, J. A. Knaff, C. Forbes, and M. M. Ali, 2013: Ocean heat content for tropical cyclone intensity forecasting and its impact on storm surge. *Natural Hazards*, **66**, 1481-1500, <http://dx.doi.org/10.1007/s11069-012-0214-5>
- Lindenthal, A., B. Langmann, J. Pätsch, I. Lorkowski, and M. Hort, 2013: The ocean response to volcanic iron fertilisation after the eruption of Kasatochi volcano: a regional-scale biogeochemical ocean model study. *Biogeosciences*, **10**, 3715-3729, <http://dx.doi.org/10.5194/bg-10-3715-2013>
- Liu, C., Y. Du, W. Zhuang, H. Xia, and Q. Xie, 2013: Evolution and propagation of a mesoscale eddy in the northern South China Sea during winter. *Acta Oceanologica Sinica*, **32**, 1-7, <http://dx.doi.org/10.1007/s13131-013-0325-1>
- Liu, C. and P. Li, 2013: The impact of meso-scale eddies on the Subtropical Mode Water in the western North Pacific. *Journal of Ocean University of China*, **12**, 230-236, <http://dx.doi.org/10.1007/s11802-013-2223-8>
- Macdonald, H. S., M. Roughan, M. E. Baird, and J. Wilkin, 2013: A numerical modeling study of the East Australian Current encircling and overwashing a warm-core eddy. *Journal of Geophysical Research: Oceans*, **118**, 301-315, <http://dx.doi.org/10.1029/2012JC008386>
- Maes, C., B. Dewitte, J. Sudre, V. Garçon, and D. Varillon, 2013: Small-scale features of temperature and salinity surface fields in the Coral Sea. *Journal of Geophysical Research: Oceans*, **118**, 5426-5438, <http://dx.doi.org/10.1002/jgrc.20344>
- Magnusson, L., M. Alonso-Balmaseda, S. Corti, F. Molteni, and T. Stockdale, 2013: Evaluation of forecast strategies for seasonal and decadal forecasts in presence of systematic model errors. *Climate Dynamics*, **41**, 2393-2409, <http://dx.doi.org/10.1007/s00382-012-1599-2>
- Malan, N., C. J. C. Reason, and B. R. Loveday, 2013: Variability in tropical cyclone heat potential over the Southwest Indian Ocean. *Journal of Geophysical Research: Oceans*, **118**, 6734-6746, <http://dx.doi.org/10.1002/2013JC008958>
- Maraldi, C., J. Chanut, B. Levier, N. Ayoub, P. De Mey, G. Reffray, F. Lyard, S. Cailleau, M. Drévilion, E. A. Fanjul, M. G. Sotillo, P. Marsaleix, and T. M. R. a. D. Team, 2013: NEMO on the shelf: assessment of the Iberia-Biscay-Ireland configuration. *Ocean Science*, **9**, 745-771, <http://dx.doi.org/10.5194/os-9-745-2013>
- Marta-Almeida, M., R. D. Hetland, and X. Zhang, 2013: Evaluation of model nesting performance on the Texas-Louisiana continental shelf. *Journal of Geophysical Research: Oceans*, **118**, 2476-2491, <http://dx.doi.org/10.1002/jgrc.20163>
- Marta-Almeida, M., M. Ruiz-Villarreal, J. Pereira, P. Otero, M. Cirano, X. Zhang, and R. D.

- Hetland, 2013: Efficient tools for marine operational forecast and oil spill tracking. *Marine Pollution Bulletin*, **71**, 139-151, <http://dx.doi.org/10.1016/j.marpolbul.2013.03.022>
- Martin, P., M. R. van der Loeff, N. Cassar, P. Vandromme, F. d'Ovidio, L. Stemmann, R. Rengarajan, M. Soares, H. E. González, F. Ebersbach, R. S. Lampitt, R. Sanders, B. A. Barnett, V. Smetacek, and S. W. A. Naqvi, 2013: Iron fertilization enhanced net community production but not downward particle flux during the Southern Ocean iron fertilization experiment LOHAFEX. *Global Biogeochemical Cycles*, **27**, 871-881, <http://dx.doi.org/10.1002/gbc.20077>
- Matear, R. J., M. A. Chamberlain, C. Sun, and M. Feng, 2013: Climate change projection of the Tasman Sea from an Eddy-resolving Ocean Model. *Journal of Geophysical Research: Oceans*, **118**, 2961-2976, <http://dx.doi.org/10.1002/jgrc.20202>
- Maze, G., J. Deshayes, J. Marshall, A.-M. Tréguier, A. Chronis, and L. Vollmer, 2013: Surface vertical PV fluxes and subtropical mode water formation in an eddy-resolving numerical simulation. *Deep Sea Research Part II: Topical Studies in Oceanography*, **91**, 128-138, <http://dx.doi.org/10.1016/j.dsr2.2013.02.026>
- Mazloff, M. R., R. Ferrari, and T. Schneider, 2013: The Force Balance of the Southern Ocean Meridional Overturning Circulation. *Journal of Physical Oceanography*, **43**, 1193-1208, <http://dx.doi.org/10.1175/JPO-D-12-069.1>
- McPhaden, M. J. and M. Nagura, 2013: Indian Ocean dipole interpreted in terms of recharge oscillator theory. *Climate Dynamics*, **42**, 1569-1586, <http://dx.doi.org/10.1007/s00382-013-1765-1>
- Meinen, C. S., W. E. Johns, S. L. Garzoli, E. van Sebille, D. Rayner, T. Kanzow, and M. O. Baringer, 2013: Variability of the Deep Western Boundary Current at 26.5°N during 2004–2009. *Deep Sea Research Part II: Topical Studies in Oceanography*, **85**, 154-168, <http://dx.doi.org/10.1016/j.dsr2.2012.07.036>
- Meinen, C. S., S. Speich, R. C. Perez, S. Dong, A. R. Piola, S. L. Garzoli, M. O. Baringer, S. Gladyshev, and E. J. D. Campos, 2013: Temporal variability of the meridional overturning circulation at 34.5°S: Results from two pilot boundary arrays in the South Atlantic. *Journal of Geophysical Research: Oceans*, **118**, 6461-6478, <http://dx.doi.org/10.1002/2013JC009228>
- Mello, R. M., A. Freitas, L. Russo, J. Oliveira, and J. Alvarenga, 2013: Ocean Forecasts in the Southwestern Atlantic: Impact of Different Sources of Sea Surface Height in Data Assimilation. *Brazilian Journal of Geophysics*, **31**, <http://dx.doi.org/10.1590/rbgf.v31i2.292>
- Menezes, V. V., H. E. Phillips, A. Schiller, C. M. Domingues, and N. L. Bindoff, 2013: Salinity dominance on the Indian Ocean Eastern Gyral current. *Geophysical Research Letters*, **40**, 5716-5721, <http://dx.doi.org/10.1002/2013GL057887>
- Mielke, C., E. Frajka-Williams, and J. Baehr, 2013: Observed and simulated variability of the AMOC at 26°N and 41°N. *Geophysical Research Letters*, **40**, 1159-1164, <http://dx.doi.org/10.1002/grl.50233>
- Mihanović, H., I. Vilibić, S. Carniel, M. Tudor, A. Russo, A. Bergamasco, N. Bubić, Z. Ljubešić, D. Viličić, A. Boldrin, V. Malačić, M. Celio, C. Comici, and F. Raicich, 2013: Exceptional dense water formation on the Adriatic shelf in the winter of 2012. *Ocean Science*, **9**,

- 561-572, <http://dx.doi.org/10.5194/os-9-561-2013>
- Moore, A. M., C. A. Edwards, J. Fiechter, P. Drake, E. Neveu, H. G. Arango, S. Gürol, and A. T. Weaver, 2013: A 4D-Var Analysis System for the California Current: A Prototype for an Operational Regional Ocean Data Assimilation System. *Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications (Vol. II)*, S. K. Park and L. Xu, Eds., Springer Berlin Heidelberg, 345-366, http://dx.doi.org/10.1007/978-3-642-35088-7_14.
- Moore, J. C., A. Grinsted, T. Zwinger, and S. Jevrejeva, 2013: Semiempirical and process-based global sea level projections. *Reviews of Geophysics*, **51**, 484-522, <http://dx.doi.org/10.1002/rog.20015>
- Morioka, Y., J. V. Ratnam, W. Sasaki, and Y. Masumoto, 2013: Generation Mechanism of the South Pacific Subtropical Dipole. *Journal of Climate*, **26**, 6033-6045, <http://dx.doi.org/10.1175/JCLI-D-12-00648.1>
- Mrvaljevic, R. K., P. G. Black, L. R. Centurioni, Y.-T. Chang, E. A. D'Asaro, S. R. Jayne, C. M. Lee, R.-C. Lien, I. I. Lin, J. Morzel, P. P. Niiler, L. Rainville, and T. B. Sanford, 2013: Observations of the cold wake of Typhoon Fanapi (2010). *Geophysical Research Letters*, **40**, 316-321, <http://dx.doi.org/10.1029/2012GL054282>
- Nakamura, H., A. Nishina, Z. Liu, F. Tanaka, M. Wimbush, and J.-H. Park, 2013: Intermediate and deep water formation in the Okinawa Trough. *Journal of Geophysical Research: Oceans*, **118**, 6881-6893, <http://dx.doi.org/10.1002/2013JC009326>
- Nan, F., H. Xue, F. Chai, D. Wang, F. Yu, M. Shi, P. Guo, and P. Xiu, 2013: Weakening of the Kuroshio Intrusion into the South China Sea over the Past Two Decades. *Journal of Climate*, **26**, 8097-8110, <http://dx.doi.org/10.1175/JCLI-D-12-00315.1>
- Nardelli, B. B., 2013: Vortex waves and vertical motion in a mesoscale cyclonic eddy. *Journal of Geophysical Research: Oceans*, **118**, 5609-5624, <http://dx.doi.org/10.1002/jgrc.20345>
- Nishikawa, S., H. Tsujino, K. Sakamoto, and H. Nakano, 2013: Diagnosis of water mass transformation and formation rates in a high-resolution GCM of the North Pacific. *Journal of Geophysical Research: Oceans*, **118**, 1051-1069, <http://dx.doi.org/10.1029/2012JC008116>
- Nishina, K., Y. Ishikawa, and T. Awaji, 2013: Simultaneous assimilation of surface drifter data, satellite and in situ observations for improved estimates of meso-scale variability in the Kuroshio Extension Region. *Journal of Oceanography*, **69**, 175-190, <http://dx.doi.org/10.1007/s10872-012-0163-3>
- Nurujjaman, M., A. Apte, and P. Vinayachandran, 2013: Data assimilation using Ensemble Transform Kalman Filter (ETKF) in ROMS model for Indian Ocean. *The European Physical Journal Special Topics*, **222**, 875-883, <http://dx.doi.org/10.1140/epjst/e2013-01890-3>
- Nyadjro, E. S., B. Subrahmanyam, and B. S. Giese, 2013: Variability of salt flux in the Indian Ocean during 1960–2008. *Remote Sensing of Environment*, **134**, 175-193, <http://dx.doi.org/10.1016/j.rse.2013.03.005>
- Oka, E. and B. Qiu, 2013: Progress of North Pacific mode water research in the past decade. *New Developments in Mode-Water Research*, A. Kubokawa, S.-P. Xie, F. Kobashi, and H. Mitsudera, Eds., Springer Japan, 1-16,

- http://dx.doi.org/10.1007/978-4-431-54162-2_1.
- Oke, P. R., D. A. Griffin, A. Schiller, R. J. Matear, R. Fiedler, J. Mansbridge, A. Lenton, M. Cahill, M. A. Chamberlain, and K. Ridgway, 2013: Evaluation of a near-global eddy-resolving ocean model. *Geoscientific Model Development*, **6**, 591-615, <http://dx.doi.org/10.5194/gmd-6-591-2013>
- Oke, P. R., P. Sakov, M. L. Cahill, J. R. Dunn, R. Fiedler, D. A. Griffin, J. V. Mansbridge, K. R. Ridgway, and A. Schiller, 2013: Towards a dynamically balanced eddy-resolving ocean reanalysis: BRAN3. *Ocean Modelling*, **67**, 52-70, <http://dx.doi.org/10.1016/j.ocemod.2013.03.008>
- Ollitrault, M. and J.-P. Rannou, 2013: ANDRO: An Argo-Based Deep Displacement Dataset. *Journal of Atmospheric and Oceanic Technology*, **30**, 759-788, <http://dx.doi.org/10.1175/JTECH-D-12-00073.1>
- Otto, A., F. E. L. Otto, O. Boucher, J. Church, G. Hegerl, P. M. Forster, N. P. Gillett, J. Gregory, G. C. Johnson, R. Knutti, N. Lewis, U. Lohmann, J. Marotzke, G. Myhre, D. Shindell, B. Stevens, and M. R. Allen, 2013: Energy budget constraints on climate response. *Nature Geosci*, **6**, 415-416, <http://dx.doi.org/10.1038/ngeo1836>
- Painter, S. C., M. D. Patey, A. Forryan, and S. Torres-Valdes, 2013: Evaluating the balance between vertical diffusive nitrate supply and nitrogen fixation with reference to nitrate uptake in the eastern subtropical North Atlantic Ocean. *Journal of Geophysical Research: Oceans*, **118**, 5732-5749, <http://dx.doi.org/10.1002/jgrc.20416>
- Palevsky, H. I., F. Ribalet, J. E. Swalwell, C. E. Cosca, E. D. Cokelet, R. A. Feely, E. V. Armbrust, and P. D. Quay, 2013: The influence of net community production and phytoplankton community structure on CO₂ uptake in the Gulf of Alaska. *Global Biogeochemical Cycles*, **27**, 664-676, <http://dx.doi.org/10.1002/gbc.20058>
- Palter, J. B., I. Marinov, J. L. Sarmiento, and N. Gruber, 2013: Large-Scale, Persistent Nutrient Fronts of the World Ocean: Impacts on Biogeochemistry. *The Handbook of Environmental Chemistry*, Springer Berlin Heidelberg, 1-38, http://dx.doi.org/10.1007/698_2013_241.
- Pan, J. and Y. Sun, 2013: Estimate of Ocean Mixed Layer Deepening after a Typhoon Passage over the South China Sea by Using Satellite Data. *Journal of Physical Oceanography*, **43**, 498-506, <http://dx.doi.org/10.1175/JPO-D-12-01.1>
- Park, J.-H. and D. Farmer, 2013: Effects of Kuroshio intrusions on nonlinear internal waves in the South China Sea during winter. *Journal of Geophysical Research: Oceans*, **118**, 7081-7094, <http://dx.doi.org/10.1002/2013JC008983>
- Park, J. J. and K. Kim, 2013: Deep currents obtained from Argo float trajectories in the Japan/East Sea. *Deep Sea Research Part II: Topical Studies in Oceanography*, **85**, 169-181, <http://dx.doi.org/10.1016/j.dsr2.2012.07.032>
- Perez, R. C., V. Hormann, R. Lumpkin, P. Brandt, W. E. Johns, F. Hernandez, C. Schmid, and B. Boulès, 2013: Mean meridional currents in the central and eastern equatorial Atlantic. *Climate Dynamics*, **43**, 2943-2962, <http://dx.doi.org/10.1007/s00382-013-1968-5>
- Piété, H., L. Marié, B. Marsset, Y. Thomas, and M.-A. Gutscher, 2013: Seismic reflection imaging of shallow oceanographic structures. *Journal of Geophysical Research: Oceans*, **118**, 2329-2344, <http://dx.doi.org/10.1002/jgrc.20156>

- Ponte, A. L., P. Klein, X. Capet, P.-Y. Le Traon, B. Chapron, and P. Lherminier, 2013: Diagnosing Surface Mixed Layer Dynamics from High-Resolution Satellite Observations: Numerical Insights. *Journal of Physical Oceanography*, **43**, 1345-1355, <http://dx.doi.org/10.1175/JPO-D-12-0136.1>
- Ponte, R. M., 2013: Heat Content and Temperature of the Ocean. *Earth System Monitoring*, J. Orcutt, Ed., Springer New York, 153-180, http://dx.doi.org/10.1007/978-1-4614-5684-1_8.
- Prakash, S., R. M. Gairola, and P. K. Thapliyal, 2013: Sea Surface Salinity Estimation in the Bay of Bengal Using Multisatellite Measurements. *Geoscience and Remote Sensing Letters, IEEE*, **10**, 525-527, <http://dx.doi.org/10.1109/lgrs.2012.2212176>
- Prakash, S., P. Prakash, and M. Ravichandran, 2013: Can oxycline depth be estimated using sea level anomaly (SLA) in the northern Indian Ocean? *Remote Sensing Letters*, **4**, 1097-1106, <http://dx.doi.org/10.1080/2150704X.2013.842284>
- Prants, S. V., A. G. Andreev, M. V. Budyansky, and M. Y. Uleysky, 2013: Impact of mesoscale eddies on surface flow between the Pacific Ocean and the Bering Sea across the Near Strait. *Ocean Modelling*, **72**, 143-152, <http://dx.doi.org/10.1016/j.ocemod.2013.09.003>
- Priede, I. G., D. S. M. Billett, A. S. Brierley, A. R. Hoelzel, M. Inall, P. I. Miller, N. J. Cousins, M. A. Shields, and T. Fujii, 2013: The ecosystem of the Mid-Atlantic Ridge at the sub-polar front and Charlie-Gibbs Fracture Zone; ECO-MAR project strategy and description of the sampling programme 2007-2010. *Deep Sea Research Part II: Topical Studies in Oceanography*, **98, Part B**, 220-230, <http://dx.doi.org/10.1016/j.dsr2.2013.06.012>
- Prieto, E., C. González-Pola, A. Lavin, R. F. Sánchez, and M. Ruiz-Villarreal, 2013: Seasonality of intermediate waters hydrography west of the Iberian Peninsula from an 8 yr semiannual time series of an oceanographic section. *Ocean Science*, **9**, 411-429, <http://dx.doi.org/10.5194/os-9-411-2013>
- Pun, I.-F., I. I. Lin, and M.-H. Lo, 2013: Recent increase in high tropical cyclone heat potential area in the Western North Pacific Ocean. *Geophysical Research Letters*, **40**, 4680-4684, <http://dx.doi.org/10.1002/grl.50548>
- Purokoski, T., E. Aro, and A. Nummelin, 2013: First Long-Term Deployment Of Argo Float in Baltic Sea Argo's Inaugural Operation in Shallow, Low-Salinity Water. *Sea Technology*, **54**, 41-44, <https://www.sea-technology.com/features/2013/1013/7.php>
- Qiu, B. and S. Chen, 2013: Concurrent Decadal Mesoscale Eddy Modulations in the Western North Pacific Subtropical Gyre. *Journal of Physical Oceanography*, **43**, 344-358, <http://dx.doi.org/10.1175/JPO-D-12-0133.1>
- Qiu, B., S. Chen, and H. Sasaki, 2013: Generation of the North Equatorial Undercurrent Jets by Triad Baroclinic Rossby Wave Interactions. *Journal of Physical Oceanography*, **43**, 2682-2698, <http://dx.doi.org/10.1175/JPO-D-13-099.1>
- Qiu, B., D. L. Rudnick, S. Chen, and Y. Kashino, 2013: Quasi-stationary North Equatorial Undercurrent jets across the tropical North Pacific Ocean. *Geophysical Research Letters*, **40**, 2183-2187, <http://dx.doi.org/10.1002/grl.50394>
- Radenac, M.-H., M. Messié, F. Léger, and C. Bosc, 2013: A very oligotrophic zone observed from space in the equatorial Pacific warm pool. *Remote Sensing of Environment*, **134**,

- 224-233, <http://dx.doi.org/10.1016/j.rse.2013.03.007>
- Ranith, R., L. Senthilnathan, M. Machendiranathan, T. Thangaradjou, and A. Saravanakumar, 2013: Seasonal and inter-annual variability of the sea surface temperature and mixed layer depth in the southern Bay of Bengal. *Advances in Oceanography and Limnology*, **4**, 70-81, <http://dx.doi.org/10.1080/19475721.2013.793741>
- Ratheesh, S., B. Mankad, S. Basu, R. Kumar, and R. Sharma, 2013: Assessment of Satellite-Derived Sea Surface Salinity in the Indian Ocean. *IEEE Geoscience and Remote Sensing Letters*, **10**, 428-431, <https://doi.org/10.1109/LGRS.2012.2207943>
- Ravichandran, M., D. Behringer, S. Sivareddy, M. S. Girishkumar, N. Chacko, and R. Harikumar, 2013: Evaluation of the Global Ocean Data Assimilation System at INCOIS: The Tropical Indian Ocean. *Ocean Modelling*, **69**, 123-135, <http://dx.doi.org/10.1016/j.ocemod.2013.05.003>
- Rehm, E. and C. D. Mobley, 2013: Estimation of hyperspectral inherent optical properties from in-water radiometry: error analysis and application to in situ data. *Applied Optics*, **52**, 795-817, <https://doi.org/10.1364/AO.52.000795>
- Ren, Z., H. Zhi-song, L. I. Jia-xun, and L. I. U. Wei, 2013: Interpolation technique for Sparse Data Based on Information Diffusion Principle - Ellipse Model. *Journal of Tropical Oceanography*, **19**, 59-66,
- Reul, N., S. Fournier, J. Boutin, O. Hernandez, C. Maes, B. Chapron, G. Alory, Y. Quilfen, J. Tenerelli, S. Morisset, Y. Kerr, S. Mecklenburg, and S. Delwart, 2013: Sea Surface Salinity Observations from Space with the SMOS Satellite: A New Means to Monitor the Marine Branch of the Water Cycle. *Surveys in Geophysics*, **35**, 681-722, <http://dx.doi.org/10.1007/s10712-013-9244-0>
- Reverdin, G., L. Marié, P. Lazure, F. d'Ovidio, J. Boutin, P. Testor, N. Martin, A. Lourenco, F. Gaillard, A. Lavin, C. Rodriguez, R. Somavilla, J. Mader, A. Rubio, P. Blouch, J. Rolland, Y. Bozec, G. Charria, F. Batifoulier, F. Dumas, S. Louazel, and J. Chanut, 2013: Freshwater from the Bay of Biscay shelves in 2009. *Journal of Marine Systems*, **109-110, Supplement**, S134-S143, <http://dx.doi.org/10.1016/j.jmarsys.2011.09.017>
- Rintoul, S. R. and N. Garabato, 2013: Dynamics of the Southern Ocean Circulation. *Ocean Circulation and Climate - a 21st Century Perspective*, G. Siedler, S. M. Griffies, J. Gould, and J. A. Church, Eds., Elsevier BV, 471-492, <http://dx.doi.org/10.1016/B978-0-12-391851-2.00018-0>.
- Riser, S. C. and M. S. Lozier, 2013: Rethinking the Gulf Stream. *Scientific American*, **308**, 50-55, <http://dx.doi.org/10.1038/scientificamerican0213-50>
- Roberts, C. D., F. K. Garry, and L. C. Jackson, 2013: A Multimodel Study of Sea Surface Temperature and Subsurface Density Fingerprints of the Atlantic Meridional Overturning Circulation. *Journal of Climate*, **26**, 9155-9174, <http://dx.doi.org/10.1175/JCLI-D-12-00762.1>
- Roquet, F., C. Wunsch, G. Forget, P. Heimbach, C. Guinet, G. Reverdin, J.-B. Charrassin, F. Bailleul, D. P. Costa, L. A. Huckstadt, K. T. Goetz, K. M. Kovacs, C. Lydersen, M. Biuw, O. A. Nøst, H. Bornemann, J. Ploetz, M. N. Bester, T. McIntyre, M. C. Muelbert, M. A. Hindell, C. R. McMahon, G. Williams, R. Harcourt, I. C. Field, L. Chafik, K. W. Nicholls, L. Boehme, and M. A. Fedak, 2013: Estimates of the Southern Ocean general circulation improved by animal-borne instruments. *Geophysical Research Letters*, **40**,

- 6176-6180, <http://dx.doi.org/10.1002/2013GL058304>
- Rosell-Fieschi, M., S. R. Rintoul, J. Gourrion, and J. L. Pelegrí, 2013: Tasman Leakage of intermediate waters as inferred from Argo floats. *Geophysical Research Letters*, **40**, 5456-5460, <http://dx.doi.org/10.1002/2013GL057797>
- Rypina, I. I., S. R. Jayne, S. Yoshida, A. M. Macdonald, E. Douglass, and K. Buesseler, 2013: Short-term dispersal of Fukushima-derived radionuclides off Japan: modeling efforts and model-data intercomparison. *Biogeosciences*, **10**, 4973-4990, <http://dx.doi.org/10.5194/bg-10-4973-2013>
- Sala, I., R. M. A. Caldeira, S. N. Estrada-Allis, E. Froufe, and X. Couvelard, 2013: Lagrangian transport pathways in the northeast Atlantic and their environmental impact. *Limnology and Oceanography: Fluids & Environments*, **3**, 40-60, <http://dx.doi.org/10.1215/21573689-2152611>
- Sallée, J. B., E. Shuckburgh, N. Bruneau, A. J. S. Meijers, T. J. Bracegirdle, and Z. Wang, 2013: Assessment of Southern Ocean mixed-layer depths in CMIP5 models: Historical bias and forcing response. *Journal of Geophysical Research: Oceans*, **118**, 1845-1862, <http://dx.doi.org/10.1002/jgrc.20157>
- Sasaki, H., S.-P. Xie, B. Taguchi, M. Nonaka, S. Hosoda, and Y. Masumoto, 2013: Interannual variations of the Hawaiian Lee Countercurrent induced by potential vorticity variability in the subsurface. *New Developments in Mode-Water Research*, A. Kubokawa, S.-P. Xie, F. Kobashi, and H. Mitsudera, Eds., Springer Japan, 89-107, http://dx.doi.org/10.1007/978-4-431-54162-2_7.
- Schiller, A., T. Lee, and S. Masuda, 2013: Methods and Applications of Ocean State Estimation and Data Assimilation in Climate Research. *Ocean Circulation and Climate - Observing and Modelling the Global Ocean*, G. Siedler, S. M. Griffies, J. Gould, and J. A. Church, Eds., Academic Press,
- Schiller, A., R. J. Matear, R. Fiedler, M. Chamberlain, and J. V. Mansbridge, 2013: Comments on the parameterization of barotropic tide-induced bottom friction mixing in ocean circulation models. *Ocean Modelling*, **69**, 108-122, <http://dx.doi.org/10.1016/j.ocemod.2013.06.005>
- Schiller, A. and K. R. Ridgway, 2013: Seasonal mixed-layer dynamics in an eddy-resolving ocean circulation model. *Journal of Geophysical Research: Oceans*, **118**, 3387-3405, <http://dx.doi.org/10.1002/jgrc.20250>
- Schmidtko, S., G. C. Johnson, and J. M. Lyman, 2013: MIMOC: A global monthly isopycnal upper-ocean climatology with mixed layers. *Journal of Geophysical Research: Oceans*, **118**, 1658-1672, <http://dx.doi.org/10.1002/jgrc.20122>
- Schofield, O., S. Glenn, and M. Moline, 2013: The Robot Ocean Network. *American Scientist*, **101**, 434-441, <https://doi.org/10.1511/2013.105.434>
- Schroeder, K., C. Millot, L. Bengara, S. Ben Ismail, M. Bensi, M. Borghini, G. Budillon, V. Cardin, L. Coppola, C. Cutil, A. Drago, B. El Moumni, J. Font, J. L. Fuda, J. García-Lafuente, G. P. Gasparini, H. Kontoyiannis, D. Lefevre, P. Puig, P. Raimbault, G. Rougier, J. Salat, C. Sammari, J. C. Sánchez Garrido, A. Sanchez-Roman, S. Sparnocchia, C. Tamburini, I. Taupier-Letage, A. Theocharis, M. Vargas-Yáñez, and A. Vetrano, 2013: Long-term monitoring programme of the hydrological variability in the Mediterranean Sea: a first overview of the HYDROCHANGES network. *Ocean*

- Science*, **9**, 301-324, <http://dx.doi.org/10.5194/os-9-301-2013>
- Séférián, R., L. Bopp, M. Gehlen, J. Orr, C. Ethé, P. Cadule, O. Aumont, D. Salas y Méliá, A. Voltaire, and G. Madec, 2013: Skill assessment of three earth system models with common marine biogeochemistry. *Climate Dynamics*, **40**, 2549-2573, <http://dx.doi.org/10.1007/s00382-012-1362-8>
- Seiki, A., M. Katsumata, T. Horii, T. Hasegawa, K. J. Richards, K. Yoneyama, and R. Shirooka, 2013: Abrupt cooling associated with the oceanic Rossby wave and lateral advection during CINDY2011. *Journal of Geophysical Research: Oceans*, **118**, 5523-5535, <http://dx.doi.org/10.1002/jgrc.20381>
- Sengupta, S., A. Parekh, S. Chakraborty, K. Ravi Kumar, and T. Bose, 2013: Vertical variation of oxygen isotope in Bay of Bengal and its relationships with water masses. *Journal of Geophysical Research: Oceans*, **118**, 6411-6424, <http://dx.doi.org/10.1002/2013JC008973>
- Shao, A. E., S. Mecking, L. Thompson, and R. E. Sonnerup, 2013: Mixed layer saturations of CFC-11, CFC-12, and SF6 in a global isopycnal model. *Journal of Geophysical Research: Oceans*, **118**, 4978-4988, <http://dx.doi.org/10.1002/jgrc.20370>
- Shiozaki, T. and Y.-I. L. Chen, 2013: Different mechanisms controlling interannual phytoplankton variation in the South China Sea and the western North Pacific subtropical gyre: A satellite study. *Advances in Space Research*, **52**, 668-676, <http://dx.doi.org/10.1016/j.asr.2013.05.005>
- Shu, Q., F. Qiao, Z. Song, and X. Yin, 2013: A comparison of two global ocean-ice coupled models with different horizontal resolutions. *Acta Oceanologica Sinica*, **32**, 1-11, <http://dx.doi.org/10.1007/s13131-013-0335-z>
- Shulman, I., S. Frolov, S. Anderson, B. Penta, R. Gould, P. Sakalaukus, and S. Ladner, 2013: Impact of bio-optical data assimilation on short-term coupled physical, bio-optical model predictions. *Journal of Geophysical Research: Oceans*, **118**, 2215-2230, <http://dx.doi.org/10.1002/jgrc.20177>
- Shulman, I., S. R. Ramp, S. Anderson, E. J. Metzger, and P. Sakalaukus, 2013: Impact of remote forcing, model resolution and bathymetry on predictions of currents on the shelf. *Dynamics of Atmospheres and Oceans*, **61-62**, 35-45, <http://dx.doi.org/10.1016/j.dynatmoce.2013.03.001>
- Song, D. and X. H. Wang, 2013: Suspended sediment transport in the Deepwater Navigation Channel, Yangtze River Estuary, China, in the dry season 2009: 2. Numerical simulations. *Journal of Geophysical Research: Oceans*, **118**, 5568-5590, <http://dx.doi.org/10.1002/jgrc.20411>
- Sonnewald, M., J. J. M. Hirschi, R. Marsh, E. L. McDonagh, and B. A. King, 2013: Atlantic meridional ocean heat transport at 26°N: impact on subtropical ocean heat content variability. *Ocean Science*, **9**, 1057-1069, <http://dx.doi.org/10.5194/os-9-1057-2013>
- Speer, K. and G. Forget, 2013: Chapter 9 - Global Distribution and Formation of Mode Waters. *International Geophysics*, S. M. G. J. G. Gerold Siedler and A. C. John, Eds., Academic Press, 211-226, <http://dx.doi.org/10.1016/B978-0-12-391851-2.00009-X>
- Stanev, E. V., Y. He, S. Grayek, and A. Boetius, 2013: Oxygen dynamics in the Black Sea as seen by Argo profiling floats. *Geophysical Research Letters*, **40**, 3085-3090,

- <http://dx.doi.org/10.1002/grl.50606>
- Stanev, E. V. and X. Lu, 2013: European Semi-enclosed Seas: Basic Physical Processes and Their Numerical Modelling. *Preventive Methods for Coastal Protection*, T. Soomere and E. Quak, Eds., Springer International Publishing, 131-179, http://dx.doi.org/10.1007/978-3-319-00440-2_5.
- Storto, A., S. Masina, and S. Dobricic, 2013: Ensemble spread-based assessment of observation impact: application to a global ocean analysis system. *Quarterly Journal of the Royal Meteorological Society*, **139**, 1842-1862, <http://dx.doi.org/10.1002/qj.2071>
- Sturges, W. and A. Bozec, 2013: A Puzzling Disagreement between Observations and Numerical Models in the Central Gulf of Mexico. *Journal of Physical Oceanography*, **43**, 2673-2681, <http://dx.doi.org/10.1175/JPO-D-13-081.1>
- Subrahmanyam, B., G. Grunseich, and E. S. Nyadjro, 2013: Preliminary SMOS Salinity Measurements and Validation in the Indian Ocean. *Ieee Transactions on Geoscience and Remote Sensing*, **51**, 19-27, <https://doi.org/10.1109/TGRS.2012.2199122>
- Sudre, J., C. Maes, and V. Garcon, 2013: On the global estimates of geostrophic and Ekman surface currents. *Limnology and Oceanography: Fluids & Environments*, **3**, 1-20, <http://dx.doi.org/10.1215/21573689-2071927>
- Sugimoto, S., N. Takahashi, and K. Hanawa, 2013: Marked freshening of North Pacific subtropical mode water in 2009 and 2010: Influence of freshwater supply in the 2008 warm season. *Geophysical Research Letters*, **40**, 3102-3105, <http://dx.doi.org/10.1002/grl.50600>
- Takeshita, Y., T. R. Martz, K. S. Johnson, J. N. Plant, D. Gilbert, S. C. Riser, C. Neill, and B. Tilbrook, 2013: A climatology-based quality control procedure for profiling float oxygen data. *Journal of Geophysical Research: Oceans*, **118**, 5640-5650, <http://dx.doi.org/10.1002/jgrc.20399>
- Timothy, D. A., C. S. Wong, J. E. Barwell-Clarke, J. S. Page, L. A. White, and R. W. Macdonald, 2013: Climatology of sediment flux and composition in the subarctic Northeast Pacific Ocean with biogeochemical implications. *Progress in Oceanography*, **116**, 95-129, <http://dx.doi.org/10.1016/j.pocean.2013.06.017>
- Toyama, K. and T. Suga, 2013: Roles of mode waters in the formation and maintenance of central water in the North Pacific. *New Developments in Mode-Water Research*, A. Kubokawa, S.-P. Xie, F. Kobashi, and H. Mitsudera, Eds., Springer Japan, 75-88, http://dx.doi.org/10.1007/978-4-431-54162-2_6.
- Trenary, L. L. and W. Han, 2013: Local and remote forcing of decadal sea level and thermocline depth variability in the South Indian Ocean. *Journal of Geophysical Research: Oceans*, **118**, 381-398, <http://dx.doi.org/10.1029/2012JC008317>
- Tsimplis, M. N., F. M. Calafat, M. Marcos, G. Jordà, D. Gomis, L. Fenoglio-Marc, M. V. Struglia, S. A. Josey, and D. P. Chambers, 2013: The effect of the NAO on sea level and on mass changes in the Mediterranean Sea. *Journal of Geophysical Research: Oceans*, **118**, 944-952, <http://dx.doi.org/10.1002/jgrc.20078>
- Ueno, H., 2013: Decadal variation of temperature inversions along Line P. *Journal of Oceanography*, **69**, 277-283, <http://dx.doi.org/10.1007/s10872-013-0172-x>
- Våge, K., R. S. Pickart, M. A. Spall, G. W. K. Moore, H. Valdimarsson, D. J. Torres, S. Y.

- Erofeeva, and J. E. Ø. Nilsen, 2013: Revised circulation scheme north of the Denmark Strait. *Deep Sea Research Part I: Oceanographic Research Papers*, **79**, 20-39, <http://dx.doi.org/10.1016/j.dsr.2013.05.007>
- van Kooten, G. C., 2013: Weather and the Instrumental Record. *Climate Change, Climate Science and Economics*, Springer Netherlands, 15-57, http://dx.doi.org/10.1007/978-94-007-4988-7_2.
- van Sebille, E., P. Spence, M. R. Mazloff, M. H. England, S. R. Rintoul, and O. A. Saenko, 2013: Abyssal connections of Antarctic Bottom Water in a Southern Ocean State Estimate. *Geophysical Research Letters*, **40**, 2177-2182, <http://dx.doi.org/10.1002/grl.50483>
- Vecchi, G. A., R. Msadek, W. Anderson, Y.-S. Chang, T. Delworth, K. Dixon, R. Gudgel, A. Rosati, B. Stern, G. Villarini, A. Wittenberg, X. Yang, F. Zeng, R. Zhang, and S. Zhang, 2013: Multiyear Predictions of North Atlantic Hurricane Frequency: Promise and Limitations. *Journal of Climate*, **26**, 5337-5357, <http://dx.doi.org/10.1175/JCLI-D-12-00464.1>
- Vialard, J., K. Drushka, H. Bellenger, M. Lengaigne, S. Pous, and J. P. Duvel, 2013: Understanding Madden-Julian-Induced sea surface temperature variations in the North Western Australian Basin. *Climate Dynamics*, **41**, 3203-3218, <http://dx.doi.org/10.1007/s00382-012-1541-7>
- Vilibić, I. and H. Mihanović, 2013: Observing the bottom density current over a shelf using an Argo profiling float. *Geophysical Research Letters*, **40**, 910-915, <http://dx.doi.org/10.1002/grl.50215>
- Vinayachandran, P. N., D. Shankar, S. Vernekar, K. K. Sandeep, P. Amol, C. P. Neema, and A. Chatterjee, 2013: A summer monsoon pump to keep the Bay of Bengal salty. *Geophysical Research Letters*, **40**, 1777-1782, <http://dx.doi.org/10.1002/grl.50274>
- Vinogradova, N. T. and R. M. Ponte, 2013: Clarifying the link between surface salinity and freshwater fluxes on monthly to interannual time scales. *Journal of Geophysical Research: Oceans*, **118**, 3190-3201, <http://dx.doi.org/10.1002/jgrc.20200>
- Vinogradova, N. T. and R. M. Ponte, 2013: Small-Scale Variability in Sea Surface Salinity and Implications for Satellite-Derived Measurements. *Journal of Atmospheric and Oceanic Technology*, **30**, 2689-2694, <http://dx.doi.org/10.1175/JTECH-D-13-00110.1>
- Vissa, N. K., A. N. V. Satyanarayana, and B. P. Kumar, 2013: Response of upper ocean and impact of barrier layer on Sidr cyclone induced sea surface cooling. *Ocean Science Journal*, **48**, 279-288, <http://dx.doi.org/10.1007/s12601-013-0026-x>
- Vissa, N. K., A. N. V. Satyanarayana, and B. Prasad Kumar, 2013: Intensity of tropical cyclones during pre- and post-monsoon seasons in relation to accumulated tropical cyclone heat potential over Bay of Bengal. *Natural Hazards*, **68**, 351-371, <http://dx.doi.org/10.1007/s11069-013-0625-y>
- Vissa, N. K., A. N. V. Satyanarayana, and B. Prasad Kumar, 2013: Comparison of mixed layer depth and barrier layer thickness for the Indian Ocean using two different climatologies. *International Journal of Climatology*, **33**, 2855-2870, <http://dx.doi.org/10.1002/joc.3635>
- Waite, A. M., V. Rossi, M. Roughan, B. Tilbrook, P. A. Thompson, M. Feng, A. S. J. Wyatt, and E. J. Raes, 2013: Formation and maintenance of high-nitrate, low pH layers in the eastern Indian Ocean and the role of nitrogen fixation. *Biogeosciences*, **10**,

- 5691-5702, <http://dx.doi.org/10.5194/bg-10-5691-2013>
- Wakita, M., S. Watanabe, M. Honda, A. Nagano, K. Kimoto, K. Matsumoto, M. Kitamura, K. Sasaki, H. Kawakami, T. Fujiki, K. Sasaoka, Y. Nakano, and A. Murata, 2013: Ocean acidification from 1997 to 2011 in the subarctic western North Pacific Ocean. *Biogeosciences*, **10**, 7817-7827, <http://dx.doi.org/10.5194/bg-10-7817-2013>
- Wang, C. and L. Zhang, 2013: Multidecadal Ocean Temperature and Salinity Variability in the Tropical North Atlantic: Linking with the AMO, AMOC, and Subtropical Cell. *Journal of Climate*, **26**, 6137-6162, <http://dx.doi.org/10.1175/JCLI-D-12-00721.1>
- Wang, C., L. Zhang, and S.-K. Lee, 2013: Response of Freshwater Flux and Sea Surface Salinity to Variability of the Atlantic Warm Pool. *Journal of Climate*, **26**, 1249-1267, <http://dx.doi.org/10.1175/JCLI-D-12-00284.1>
- Wang, F., Y. Li, Y. Zhang, and D. Hu, 2013: The subsurface water in the North Pacific tropical gyre. *Deep Sea Research Part I: Oceanographic Research Papers*, **75**, 78-92, <http://dx.doi.org/10.1016/j.dsr.2013.01.002>
- Wang, L.-C. and C.-R. Wu, 2013: Contrasting the Flow Patterns in the Equatorial Pacific Between Two Types of El Niño. *Atmosphere-Ocean*, **51**, 60-74, <http://dx.doi.org/10.1080/07055900.2012.744294>
- Wang, X., V. Bhatt, and Y.-J. Sun, 2013: Study of seasonal variability and heat budget of the East Australian Current using two eddy-resolving ocean circulation models. *Ocean Dynamics*, **63**, 549-563, <http://dx.doi.org/10.1007/s10236-013-0605-5>
- Wang, X., G. Han, W. Li, X. Wu, and X. Zhang, 2013: Salinity drift of global Argo profiles and recent halosteric sea level variation. *Global and Planetary Change*, **108**, 42-55, <http://dx.doi.org/10.1016/j.gloplacha.2013.06.005>
- Wang, Z., S. F. DiMarco, A. E. Jochens, and S. Ingle, 2013: High salinity events in the northern Arabian Sea and Sea of Oman. *Deep Sea Research Part I: Oceanographic Research Papers*, **74**, 14-24, <http://dx.doi.org/10.1016/j.dsr.2012.12.004>
- Watanabe, M. and T. Hibiya, 2013: Assessment of mixed layer models embedded in an ocean general circulation model. *Journal of Oceanography*, **69**, 329-338, <http://dx.doi.org/10.1007/s10872-013-0176-6>
- White, A. E., R. A. Foster, C. R. Benitez-Nelson, P. Masqué, E. Verdeny, B. N. Popp, K. E. Arthur, and F. G. Prahl, 2013: Nitrogen fixation in the Gulf of California and the Eastern Tropical North Pacific. *Progress in Oceanography*, **109**, 1-17, <http://dx.doi.org/10.1016/j.pocean.2012.09.002>
- Wienberg, C., P. Wintersteller, L. Beuck, and D. Hebbeln, 2013: Coral Patch seamount (NE Atlantic) - a sedimentological and megafaunal reconnaissance based on video and hydroacoustic surveys. *Biogeosciences*, **10**, 3421-3443, <http://dx.doi.org/10.5194/bg-10-3421-2013>
- Wilkin, J. L. and E. J. Hunter, 2013: An assessment of the skill of real-time models of Mid-Atlantic Bight continental shelf circulation. *Journal of Geophysical Research: Oceans*, **118**, 2919-2933, <http://dx.doi.org/10.1002/jgrc.20223>
- Wilson, C., T. A. Villareal, M. A. Brzezinski, J. W. Krause, and A. Y. Shcherbina, 2013: Chlorophyll bloom development and the subtropical front in the North Pacific. *Journal of Geophysical Research: Oceans*, **118**, 1473-1488, <http://dx.doi.org/10.1002/jgrc.20143>

- Wong, A. P. S. and S. C. Riser, 2013: Modified shelf water on the continental slope north of Mac Robertson Land, East Antarctica. *Geophysical Research Letters*, **40**, 6186-6190, <http://dx.doi.org/10.1002/2013GL058125>
- Woodham, R., G. B. Brassington, R. Robertson, and O. Alves, 2013: Propagation characteristics of coastally trapped waves on the Australian Continental Shelf. *Journal of Geophysical Research: Oceans*, **118**, 4461-4473, <http://dx.doi.org/10.1002/jgrc.20317>
- Woolfe, K. F., S. Lani, and K. G. Sabra, 2013: Passive acoustic thermometry of the deep water sound channel using ambient noise. *The Journal of the Acoustical Society of America*, **134**, 3983-3983, <http://dx.doi.org/10.1121/1.4830512>
- Wouters, B., W. Hazeleger, S. Drijfhout, G. J. van Oldenborgh, and V. Guemas, 2013: Multiyear predictability of the North Atlantic subpolar gyre. *Geophysical Research Letters*, **40**, 3080-3084, <http://dx.doi.org/10.1002/grl.50585>
- Wu, C.-R. and L.-C. Wang, 2013: Contrasting the evolution between two types of El Niño in a data assimilation model. *Ocean Dynamics*, **63**, 577-587, <http://dx.doi.org/10.1007/s10236-013-0610-8>
- Wunsch, C., 2013: Covariances and linear predictability of the Atlantic Ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, **85**, 228-243, <http://dx.doi.org/10.1016/j.dsr2.2012.07.015>
- Xie, S.-P., 2013: Advancing climate dynamics toward reliable regional climate projections. *Journal of Ocean University of China*, **12**, 191-200, <http://dx.doi.org/10.1007/s11802-013-2277-7>
- Yan, Y., E. P. Chassignet, Y. Qi, and W. K. Dewar, 2013: Freshening of Subsurface Waters in the Northwest Pacific Subtropical Gyre: Observations and Dynamics. *Journal of Physical Oceanography*, **43**, 2733-2751, <http://dx.doi.org/10.1175/JPO-D-13-03.1>
- Yang, G., F. Wang, Y. Li, and P. Lin, 2013: Mesoscale eddies in the northwestern subtropical Pacific Ocean: Statistical characteristics and three-dimensional structures. *Journal of Geophysical Research: Oceans*, **118**, 1906-1925, <http://dx.doi.org/10.1002/jgrc.20164>
- Yasunaka, S., Y. Nojiri, S.-i. Nakaoka, T. Ono, H. Mukai, and N. Usui, 2013: Monthly maps of sea surface dissolved inorganic carbon in the North Pacific: Basin-wide distribution and seasonal variation. *Journal of Geophysical Research: Oceans*, **118**, 3843-3850, <http://dx.doi.org/10.1002/jgrc.20279>
- Yoneyama, K., C. Zhang, and C. Long, 2013: Tracking Pulses of the Madden-Julian Oscillation. *Bulletin of the American Meteorological Society*, **94**, 1871-1891, <http://dx.doi.org/10.1175/BAMS-D-12-00157.1>
- Yuhong, Z., D. Yan, Z. Shaojun, Y. Yali, and C. Xuhua, 2013: Impact of Indian Ocean Dipole on the salinity budget in the equatorial Indian Ocean. *Journal of Geophysical Research: Oceans*, **118**, <http://dx.doi.org/10.1002/jgrc.20392>
- Zakharova, N. B., V. I. Agoshkov, and E. I. Parmuzin, 2013: A new interpolation method for observation data obtained from Argo buoys system. *Russian Journal of Numerical Analysis and Mathematical Modelling*, **28**, 67-84, <http://dx.doi.org/10.1515/rnam-2013-0005>
- Zhang, C., J. Xu, X. Bao, and Z. Wang, 2013: An effective method for improving the accuracy of Argo objective analysis. *Acta Oceanologica Sinica*, **32**, 66-77,

- <http://dx.doi.org/10.1007/s13131-013-0333-1>
- Zhang, H., G. Chen, C. Qian, and H. Jiang, 2013: Assessment of Two SMOS Sea Surface Salinity Level 3 Products Against Argo Upper Salinity Measurements. *IEEE Geoscience and Remote Sensing Letters*, **10**, 1434-1438, <https://doi.org/10.1109/LGRS.2013.2259792>
- Zhang, R., Z.-s. Huang, L. I. Jia-xun, and L. I. U. Wei, 2013: INTERPOLATION TECHNIQUE FOR SPARSE DATA BASED ON INFORMATION DIFFUSION PRINCIPLE-ELLIPSE MODEL. *Journal of Tropical Meteorology*, **19**, 59-66, <http://search.ebscohost.com/login.aspx?direct=true&db=a9h&AN=84924633&site=ehost-live>
- Zhang, R.-H., F. Zheng, J. Zhu, and Z. Wang, 2013: A successful real-time forecast of the 2010–11 La Niña event. *Scientific Reports*, **3**, <http://dx.doi.org/10.1038/srep01108>
- Zhang, Z., D. Yuan, and P. C. Chu, 2013: Geostrophic meridional transport in tropical Northwest Pacific based on Argo profiles. *Chinese Journal of Oceanology and Limnology*, **31**, 656-664, <http://dx.doi.org/10.1007/s00343-013-2169-0>
- Zhang, Z., Y. Zhang, W. Wang, and R. X. Huang, 2013: Universal structure of mesoscale eddies in the ocean. *Geophysical Research Letters*, **40**, 3677-3681, <http://dx.doi.org/10.1002/grl.50736>
- Zhang, Z., W. Zhao, J. Tian, and X. Liang, 2013: A mesoscale eddy pair southwest of Taiwan and its influence on deep circulation. *Journal of Geophysical Research: Oceans*, **118**, 6479-6494, <http://dx.doi.org/10.1002/2013JC008994>
- Zhu, J., B. Huang, M. Balmaseda, J. Kinter, III, P. Peng, Z.-Z. Hu, and L. Marx, 2013: Improved reliability of ENSO hindcasts with multi-ocean analyses ensemble initialization. *Climate Dynamics*, **41**, 2785-2795, <http://dx.doi.org/10.1007/s00382-013-1965-8>
- Zhuang, W., M. Feng, Y. Du, A. Schiller, and D. Wang, 2013: Low-frequency sea level variability in the southern Indian Ocean and its impacts on the oceanic meridional transports. *Journal of Geophysical Research: Oceans*, **118**, 1302-1315, <http://dx.doi.org/10.1002/jgrc.20129>
- Zilberman, N. V., D. H. Roemmich, and S. T. Gille, 2013: The Mean and the Time Variability of the Shallow Meridional Overturning Circulation in the Tropical South Pacific Ocean. *Journal of Climate*, **26**, 4069-4087, <http://dx.doi.org/10.1175/JCLI-D-12-00120.1>
- Zu, T., D. Wang, C. Yan, I. Belkin, W. Zhuang, and J. Chen, 2013: Evolution of an anticyclonic eddy southwest of Taiwan. *Ocean Dynamics*, **63**, 519-531, <http://dx.doi.org/10.1007/s10236-013-0612-6>

2012 (260)

- Agarwal, N., R. Sharma, A. Parekh, S. Basu, A. Sarkar, and V. K. Agarwal, 2012: Argo observations of barrier layer in the tropical Indian Ocean. *Advances in Space Research*, **50**, 642-654, <http://dx.doi.org/10.1016/j.asr.2012.05.021>
- Agoshkov, V. I. and V. B. Zalesny, 2012: Variational Data Assimilation Technique in Mathematical Modeling of Ocean Dynamics. *Pure and Applied Geophysics*, **169**, 555-578, <http://dx.doi.org/10.1007/s00024-011-0372-5>
- Baird, M. E. and K. R. Ridgway, 2012: The southward transport of sub-mesoscale lenses of

- Bass Strait Water in the centre of anti-cyclonic mesoscale eddies. *Geophysical Research Letters*, **39**, L02603, <http://dx.doi.org/10.1029/2011GL050643>
- Banks, C. J., C. P. Gommenginger, M. A. Srokosz, and H. M. Snaith, 2012: Validating SMOS Ocean Surface Salinity in the Atlantic With Argo and Operational Ocean Model Data. *IEEE Transactions on Geoscience and Remote Sensing*, **50**, 1688-1702, <https://doi.org/10.1109/TGRS.2011.2167340>
- Belyaev, K. P., C. A. S. Tanajura, and N. P. Tuchkova, 2012: Comparison of methods for argo drifters data assimilation into a hydrodynamical model of the ocean. *Oceanology*, **52**, 593-603, <http://dx.doi.org/10.1134/S0001437012050025>
- Bernardello, R., J. G. Cardoso, N. Bahamon, D. Donis, I. Marinov, and A. Cruzado, 2012: Factors controlling interannual variability of vertical organic matter export and phytoplankton bloom dynamics – a numerical case-study for the NW Mediterranean Sea. *Biogeosciences*, **9**, 4233-4245, <http://dx.doi.org/10.5194/bg-9-4233-2012>
- Bhaskar, T. V. S. U., D. Swain, and M. Ravichandran, 2012: Determination of Sonic Layer Depth from XBT Profiles and Climatological Salinities in the Arabian Sea. *International Journal of Earth Sciences and Engineering*, **5**, 35-43,
- Bingham, F. M., G. R. Foltz, and M. J. McPhaden, 2012: Characteristics of the seasonal cycle of surface layer salinity in the global ocean. *Ocean Science*, **8**, 915-929, <http://dx.doi.org/10.5194/os-8-915-2012>
- Boeing, C., J. K. Willis, F. W. Landerer, R. S. Nerem, and J. Fasullo, 2012: The 2011 La Niña: So strong, the oceans fell. *Geophysical Research Letters*, **39**, L19602, <http://dx.doi.org/10.1029/2012GL053055>
- Boutin, J., N. Martin, X. Yin, J. Font, N. Reul, and P. Spurgeon, 2012: First Assessment of SMOS Data Over Open Ocean: Part II: 2014; Sea Surface Salinity. *IEEE Transactions on Geoscience and Remote Sensing*, **50**, 1662-1675, <https://doi.org/10.1109/TGRS.2012.2184546>
- Boyer, T., S. Levitus, J. Antonov, J. R. Reagan, C. Schmid, and R. A. Locarnini, 2012: Subsurface Salinity. In State of the Climate 2011. Blunden, J. and D. S. Arndt, Eds. *Bulletin of the American Meteorological Society*, S72-S75, <http://dx.doi.org/10.1175/2012BAMSStateoftheClimate.1>
- Buongiorno Nardelli, B., S. Guinehut, A. Pascual, Y. Drillet, S. Ruiz, and S. Mulet, 2012: Towards high resolution mapping of 3-D mesoscale dynamics from observations. *Ocean Science*, **8**, 885-901, <http://dx.doi.org/10.5194/os-8-885-2012>
- Calafat, F. M., G. Jordà, M. Marcos, and D. Gomis, 2012: Comparison of Mediterranean sea level variability as given by three baroclinic models. *Journal of Geophysical Research: Oceans*, **117**, C02009, <http://dx.doi.org/10.1029/2011JC007277>
- Camps, A., J. Font, I. Corbella, M. Vall-Llossera, M. Portabella, J. Ballabrera-Poy, V. González, M. Piles, A. Aguasca, R. Acevo, X. Bosch, N. Duffo, P. Fernández, C. Gabarró, J. Gourrion, S. Guimard, A. Marín, J. Martínez, A. Monerris, B. Mourre, F. Pérez, N. Rodríguez, J. Salvador, R. Sabia, M. Talone, F. Torres, M. Pablos, A. Turiel, E. Valencia, J. Martínez-Fernández, N. Sánchez, C. Pérez-Gutiérrez, G. Baroncini-Turricchia, A. Rius, and S. Ribó, 2012: Review of the CALIMAS Team Contributions to European Space Agency's Soil Moisture and Ocean Salinity Mission Calibration and Validation. *Remote Sensing*, **4**, 1272-1309, <https://doi.org/10.3390/rs4051272>

- Carton, J. A., H. F. Seidel, and B. S. Giese, 2012: Detecting historical ocean climate variability. *Journal of Geophysical Research: Oceans*, **117**, C02023, <http://dx.doi.org/10.1029/2011JC007401>
- Carton, X., P. L'Hegaret, and R. Baraille, 2012: Mesoscale variability of water masses in the Arabian Sea as revealed by ARGO floats. *Ocean Science*, **8**, 227-248, <http://dx.doi.org/10.5194/os-8-227-2012>
- Castro-Morales, K. and J. Kaiser, 2012: Using dissolved oxygen concentrations to determine mixed layer depths in the Bellingshausen Sea. *Ocean Science*, **8**, <http://dx.doi.org/10.5194/os-8-1-2012>
- Chacko, N., M. Ravichandran, R. R. Rao, and S. S. C. Shenoi, 2012: An anomalous cooling event observed in the Bay of Bengal during June 2009. *Ocean Dynamics*, **62**, 671-681, <http://dx.doi.org/10.1007/s10236-012-0525-9>
- Chang, Y.-S. and H.-R. Shin, 2012: Objective analysis of monthly temperature and salinity around the southwestern East Sea (Japan Sea) on a 0.1° grid. *Continental Shelf Research*, **45**, 54-64, <http://dx.doi.org/10.1016/j.csr.2012.06.001>
- Chatterjee, A., D. Shankar, S. S. C. Shenoi, G. V. Reddy, G. S. Michael, M. Ravichandran, V. V. Gopalakrishna, E. P. Rama Rao, T. V. S. U. Bhaskar, and V. N. Sanjeevan, 2012: A new atlas of temperature and salinity for the North Indian Ocean. *Journal of Earth System Science*, **121**, 559-593, <http://dx.doi.org/10.1007/s12040-012-0191-9>
- Chen, C., R. Limeburner, G. Gao, Q. Xu, J. Qi, P. Xue, Z. Lai, H. Lin, R. Beardsley, B. Owens, and B. Carlson, 2012: FVCOM model estimate of the location of Air France 447. *Ocean Dynamics*, **62**, 943-952, <http://dx.doi.org/10.1007/s10236-012-0537-5>
- Chen, G., J. Gan, Q. Xie, X. Chu, D. Wang, and Y. Hou, 2012: Eddy heat and salt transports in the South China Sea and their seasonal modulations. *Journal of Geophysical Research: Oceans*, **117**, C05021, <http://dx.doi.org/10.1029/2011JC007724>
- Chen, G., D. Wang, and Y. Hou, 2012: The features and interannual variability mechanism of mesoscale eddies in the Bay of Bengal. *Continental Shelf Research*, **47**, 178-185, <http://dx.doi.org/10.1016/j.csr.2012.07.011>
- Chen, J., R. Zhang, H. Wang, Y. An, P. Peng, and W. Zhang, 2012: Isolation of sea surface salinity maps on various timescales in the tropical Pacific Ocean. *Journal of Oceanography*, **68**, 687-701, <http://dx.doi.org/10.1007/s10872-012-0126-8>
- Chen, X., D. Pan, X. He, Y. Bai, and D. Wang, 2012: Upper ocean responses to category 5 typhoon Megi in the western north Pacific. *Acta Oceanologica Sinica*, **31**, 51-58, <http://dx.doi.org/10.1007/s13131-012-0175-2>
- Chen, X., Y. Zhang, M. Zhang, Y. Feng, Z. Wu, F. Qiao, and N. E. Huang, 2012: Intercomparison between observed and simulated variability in global ocean heat content using empirical mode decomposition, part I: modulated annual cycle. *Climate Dynamics*, **41**, 2797-2815, <http://dx.doi.org/10.1007/s00382-012-1554-2>
- Chierici, M., S. R. Signorini, M. Mattsdotter-Björk, A. Fransson, and A. Olsen, 2012: Surface water fCO₂ algorithms for the high-latitude Pacific sector of the Southern Ocean. *Remote Sensing of Environment*, **119**, 184-196, <http://dx.doi.org/10.1016/j.rse.2011.12.020>
- Cho, K.-H., H. V. Wang, J. Shen, A. Valle-Levinson, and Y.-c. Teng, 2012: A modeling study on the response of Chesapeake Bay to hurricane events of Floyd and Isabel. *Ocean*

- Modelling*, **49–50**, 22–46, <http://dx.doi.org/10.1016/j.ocemod.2012.02.005>
- Cléroux, C., M. Debret, E. Cortijo, J.-C. Duplessy, F. Dewilde, J. Reijmer, and N. Massei, 2012: High-resolution sea surface reconstructions off Cape Hatteras over the last 10 ka. *Paleoceanography*, **27**, PA1205, <http://dx.doi.org/10.1029/2011PA002184>
- Close, S. E. and A. C. Naveira Garabato, 2012: Baroclinic adjustment in Drake Passage driven by tropical Pacific forcing. *Geophysical Research Letters*, **39**, L19610, <http://dx.doi.org/10.1029/2012GL053402>
- Collins, M. A., G. Stowasser, S. Fielding, R. Shreeve, J. C. Xavier, H. J. Venables, P. Enderlein, Y. Cherel, and A. Van de Putte, 2012: Latitudinal and bathymetric patterns in the distribution and abundance of mesopelagic fish in the Scotia Sea. *Deep Sea Research Part II: Topical Studies in Oceanography*, **59–60**, 189–198, <http://dx.doi.org/10.1016/j.dsr2.2011.07.003>
- Cravatte, S., W. S. Kessler, and F. Marin, 2012: Intermediate Zonal Jets in the Tropical Pacific Ocean Observed by Argo Floats. *Journal of Physical Oceanography*, **42**, 1475–1485, <http://dx.doi.org/10.1175/JPO-D-11-0206.1>
- Czeschel, R., L. Stramma, and G. C. Johnson, 2012: Oxygen decreases and variability in the eastern equatorial Pacific. *Journal of Geophysical Research: Oceans*, **117**, C11019, <http://dx.doi.org/10.1029/2012JC008043>
- Davis, R. E., W. S. Kessler, and J. T. Sherman, 2012: Gliders Measure Western Boundary Current Transport from the South Pacific to the Equator. *Journal of Physical Oceanography*, **42**, 2001–2013, <http://dx.doi.org/10.1175/JPO-D-12-022.1>
- Demidov, A. N., B. N. Filyushkin, and N. G. Kozhelupova, 2012: Detection of Mediterranean lenses in the Atlantic ocean by profilers of the Argo project. *Oceanology*, **52**, 171–180, <http://dx.doi.org/10.1134/S0001437012020038>
- Deng, Z., Y. Tang, D. Chen, and G. Wang, 2012: A Time-Averaged Covariance Method in the EnKF for Argo Data Assimilation. *Atmosphere-Ocean*, **50**, 129–145, <http://dx.doi.org/10.1080/07055900.2012.719823>
- Dietze, H. and I. Kriest, 2012: 137Cs off Fukushima Dai-ichi, Japan - model based estimates of dilution and fate. *Ocean Science*, **8**, 319–332, <http://dx.doi.org/10.5194/os-8-319-2012>
- Dobricic, S., C. Dufau, P. Oddo, N. Pinardi, I. Pujol, and M. H. Rio, 2012: Assimilation of SLA along track observations in the Mediterranean with an oceanographic model forced by atmospheric pressure. *Ocean Science*, **8**, 787–795, <http://dx.doi.org/10.5194/os-8-787-2012>
- Douglass, D. H. and R. S. Knox, 2012: Ocean heat content and Earth's radiation imbalance. II. Relation to climate shifts. *Physics Letters A*, **376**, 1226–1229, <http://dx.doi.org/10.1016/j.physleta.2012.02.027>
- Drushka, K., J. Sprintall, S. T. Gille, and S. Wijffels, 2012: In Situ Observations of Madden–Julian Oscillation Mixed Layer Dynamics in the Indian and Western Pacific Oceans. *Journal of Climate*, **25**, 2306–2328, <http://dx.doi.org/10.1175/JCLI-D-11-00203.1>
- Durack, P. J., S. E. Wijffels, and R. J. Matear, 2012: Ocean Salinities Reveal Strong Global Water Cycle Intensification During 1950 to 2000. *Science*, **336**, 455–458, <http://dx.doi.org/10.1126/science.1212222>

- Ebuchi, N. and H. Abe, 2012: Evaluation of sea surface salinity observed by Aquarius. *Proceedings of IGARSS 2012*, 5767-5769,
- Everett, J. D., M. E. Baird, P. R. Oke, and I. M. Suthers, 2012: An avenue of eddies: Quantifying the biophysical properties of mesoscale eddies in the Tasman Sea. *Geophysical Research Letters*, **39**, L16608, <http://dx.doi.org/10.1029/2012GL053091>
- Featherstone, W. E. and M. S. Filmer, 2012: The north-south tilt in the Australian Height Datum is explained by the ocean's mean dynamic topography. *Journal of Geophysical Research: Oceans*, **117**, C08035, <http://dx.doi.org/10.1029/2012JC007974>
- Femke de Jong, M., H. M. van Aken, K. Våge, and R. S. Pickart, 2012: Convective mixing in the central Irminger Sea: 2002–2010. *Deep Sea Research Part I: Oceanographic Research Papers*, **63**, 36-51, <http://dx.doi.org/10.1016/j.dsr.2012.01.003>
- Fenoglio-Marc, L., R. Rietbroek, S. Grayek, M. Becker, J. Kusche, and E. Stanev, 2012: Water mass variation in the Mediterranean and Black Seas. *Journal of Geodynamics*, **59–60**, 168-182, <http://dx.doi.org/10.1016/j.jog.2012.04.001>
- Foltz, G. R., M. J. McPhaden, and R. Lumpkin, 2012: A Strong Atlantic Meridional Mode Event in 2009: The Role of Mixed Layer Dynamics. *Journal of Climate*, **25**, 363-380, <http://dx.doi.org/10.1175/JCLI-D-11-00150.1>
- Forryan, A., A. P. Martin, M. A. Srokosz, E. E. Popova, S. C. Painter, and M. C. Stinchcombe, 2012: Turbulent nutrient fluxes in the Iceland Basin. *Deep Sea Research Part I: Oceanographic Research Papers*, **63**, 20-35, <http://dx.doi.org/10.1016/j.dsr.2011.12.006>
- Fu, W., 2012: Altimetric data assimilation by EnOI and 3DVAR in a tropical Pacific model: Impact on the simulation of variability. *Advances in Atmospheric Sciences*, **29**, 823-837, <http://dx.doi.org/10.1007/s00376-011-1022-7>
- Fujii, Y., M. Kamachi, S. Matsumoto, and S. Ishizaki, 2012: Barrier Layer and Relevant Variability of the Salinity Field in the Equatorial Pacific Estimated in an Ocean Reanalysis Experiment. *Pure and Applied Geophysics*, **169**, 579-594, <http://dx.doi.org/10.1007/s00024-011-0387-y>
- Gary, S. F., M. S. Lozier, A. Biastoch, and C. W. Böning, 2012: Reconciling tracer and float observations of the export pathways of Labrador Sea Water. *Geophysical Research Letters*, **39**, L24606, <http://dx.doi.org/10.1029/2012GL053978>
- Giglio, D., D. Roemmich, and S. T. Gille, 2012: Wind-Driven Variability of the Subtropical North Pacific Ocean. *Journal of Physical Oceanography*, **42**, 2089-2100, <http://dx.doi.org/10.1175/JPO-D-12-029.1>
- Gille, S. T., 2012: Diurnal variability of upper ocean temperatures from microwave satellite measurements and Argo profiles. *Journal of Geophysical Research: Oceans*, **117**, C11027, <http://dx.doi.org/10.1029/2012JC007883>
- Gleckler, P. J., B. D. Santer, C. M. Domingues, D. W. Pierce, T. P. Barnett, J. A. Church, K. E. Taylor, K. M. AchutaRao, T. P. Boyer, M. Ishii, and P. M. Caldwell, 2012: Human-induced global ocean warming on multidecadal timescales. *Nature Climate Change*, **2**, 524-529, <http://dx.doi.org/10.1038/nclimate1553>
- Gouretski, V., J. Kennedy, T. Boyer, and A. Köhl, 2012: Consistent near-surface ocean warming since 1900 in two largely independent observing networks. *Geophysical*

- Research Letters*, **39**, L19606, <http://dx.doi.org/10.1029/2012GL052975>
- Greatbatch, R. J., P. Brandt, M. Claus, S. H. Didwischus, and Y. Fu, 2012: On the Width of the Equatorial Deep Jets. *Journal of Physical Oceanography*, **42**, 1729-1740, <http://dx.doi.org/10.1175/JPO-D-11-0238.1>
- Gregory, J. M., N. J. White, J. A. Church, M. F. P. Bierkens, J. E. Box, M. R. van den Broeke, J. G. Cogley, X. Fettweis, E. Hanna, P. Huybrechts, L. F. Konikow, P. W. Leclercq, B. Marzeion, J. Oerlemans, M. E. Tamisiea, Y. Wada, L. M. Wake, and R. S. W. van de Wal, 2012: Twentieth-Century Global-Mean Sea Level Rise: Is the Whole Greater than the Sum of the Parts? *Journal of Climate*, **26**, 4476-4499, <http://dx.doi.org/10.1175/JCLI-D-12-00319.1>
- Griesel, A., M. R. Mazloff, and S. T. Gille, 2012: Mean dynamic topography in the Southern Ocean: Evaluating Antarctic Circumpolar Current transport. *Journal of Geophysical Research: Oceans*, **117**, C01020, <http://dx.doi.org/10.1029/2011JC007573>
- Grodsky, S. A., N. Reul, G. Lagerloef, G. Reverdin, J. A. Carton, B. Chapron, Y. Quilfen, V. N. Kudryavtsev, and H.-Y. Kao, 2012: Haline hurricane wake in the Amazon/Orinoco plume: AQUARIUS/SACD and SMOS observations. *Geophysical Research Letters*, **39**, L20603, <http://dx.doi.org/10.1029/2012GL053335>
- Guinehut, S., A. L. Dhomps, G. Larnicol, and P. Y. Le Traon, 2012: High resolution 3-D temperature and salinity fields derived from in situ and satellite observations. *Ocean Science*, **8**, 845-857, <http://dx.doi.org/10.5194/os-8-845-2012>
- Haines, K., M. Valdivieso, H. Zuo, and V. N. Stepanov, 2012: Transports and budgets in a 1/4 ° global ocean reanalysis 1989–2010. *Ocean Science*, **8**, 333-344, <http://dx.doi.org/10.5194/os-8-333-2012>
- Hamon, M., G. Reverdin, and P. Y. Le Traon, 2012: Empirical Correction of XBT Data. *Journal of Atmospheric and Oceanic Technology*, **29**, 960-973, <http://dx.doi.org/10.1175/JTECH-D-11-00129.1>
- Hartman, S. E., R. S. Lampitt, K. E. Larkin, M. Pagnani, J. Campbell, T. Gkritzalis, Z.-P. Jiang, C. A. Pebody, H. A. Ruhl, A. J. Gooday, B. J. Bett, D. S. M. Billett, P. Provost, R. McLachlan, J. D. Turton, and S. Lankester, 2012: The Porcupine Abyssal Plain fixed-point sustained observatory (PAP-SO): variations and trends from the Northeast Atlantic fixed-point time-series. *ICES Journal of Marine Science: Journal du Conseil*, **69**, 776-783, <http://dx.doi.org/10.1093/icesjms/fss077>
- Hasson, A., A. Koch-Larrouy, R. Morrow, M. Juza, and T. Penduff, 2012: The origin and fate of mode water in the southern Pacific Ocean. *Ocean Dynamics*, **62**, 335-354, <http://dx.doi.org/10.1007/s10236-011-0507-3>
- He, J., Y. He, and S. Cai, 2012: Assessing the Application of Argo Profiling Float Data to the Study of the Seasonal Variation of the Hydrological Parameters and the Current Field East of Luzon Strait. *Atmosphere-Ocean*, **50**, 77-91, <http://dx.doi.org/10.1080/07055900.2012.719822>
- Helber, R. W., A. B. Kara, J. G. Richman, M. R. Carnes, C. N. Barron, H. E. Hurlburt, and T. Boyer, 2012: Temperature versus salinity gradients below the ocean mixed layer. *Journal of Geophysical Research: Oceans*, **117**, C05006, <http://dx.doi.org/10.1029/2011JC007382>
- Henry, O., P. Prandi, W. Llovel, A. Cazenave, S. Jevrejeva, D. Stammer, B. Meyssignac, and N.

- Koldunov, 2012: Tide gauge-based sea level variations since 1950 along the Norwegian and Russian coasts of the Arctic Ocean: Contribution of the steric and mass components. *Journal of Geophysical Research: Oceans*, **117**, C06023, <http://dx.doi.org/10.1029/2011JC007706>
- Hobbs, W. R. and J. K. Willis, 2012: Midlatitude North Atlantic heat transport: A time series based on satellite and drifter data. *J. Geophys. Res.*, **117**, C01008, <http://dx.doi.org/10.1029/2011JC007039>
- Holte, J. W., L. D. Talley, T. K. Chereskin, and B. M. Sloyan, 2012: The role of air-sea fluxes in Subantarctic Mode Water formation. *Journal of Geophysical Research: Oceans*, **117**, C03040, <http://dx.doi.org/10.1029/2011JC007798>
- Hu, J., Q. Zheng, Z. Sun, and C.-K. Tai, 2012: Penetration of nonlinear Rossby eddies into South China Sea evidenced by cruise data. *Journal of Geophysical Research: Oceans*, **117**, C03010, <http://dx.doi.org/10.1029/2011JC007525>
- Hu, S. and D. Hu, 2012: Heat center of the western Pacific warm pool. *Chinese Journal of Oceanology and Limnology*, **30**, 169-176, <http://dx.doi.org/10.1007/s00343-012-1193-9>
- Huang, B., Y. Xue, A. Kumar, and D. W. Behringer, 2012: AMOC variations in 1979–2008 simulated by NCEP operational ocean data assimilation system. *Climate Dynamics*, **38**, 513-525, <http://dx.doi.org/10.1007/s00382-011-1035-z>
- Huang, C. J., F. Qiao, Q. Shu, and Z. Song, 2012: Evaluating austral summer mixed-layer response to surface wave-induced mixing in the Southern Ocean. *Journal of Geophysical Research: Oceans*, **117**, C00J18, <http://dx.doi.org/10.1029/2012JC007892>
- Isobe, A., S. i. Kako, X. Guo, and H. Takeoka, 2012: Ensemble numerical forecasts of the sporadic Kuroshio water intrusion (kyucho) into shelf and coastal waters. *Ocean Dynamics*, **62**, 633-644, <http://dx.doi.org/10.1007/s10236-011-0519-z>
- Janeiro, J., F. Martins, and P. Relvas, 2012: Towards the development of an operational tool for oil spills management in the Algarve coast. *Journal of Coastal Conservation*, **16**, 449-460, <http://dx.doi.org/10.1007/s11852-012-0201-8>
- Janjić, T., J. Schröter, R. Savcenko, W. Bosch, A. Albertella, R. Rummel, and O. Klatt, 2012: Impact of combining GRACE and GOCE gravity data on ocean circulation estimates. *Ocean Science*, **8**, 65-79, <http://dx.doi.org/10.5194/os-8-65-2012>
- Jena, B., D. Swain, and K. Avinash, 2012: Investigation of the biophysical processes over the oligotrophic waters of South Indian Ocean subtropical gyre, triggered by cyclone Edzani. *International Journal of Applied Earth Observation and Geoinformation*, **18**, 49-56, <http://dx.doi.org/10.1016/j.jag.2012.01.006>
- Johnson, G. C. and J. M. Lyman, 2012: Sea Surface Salinity. In State of the Climate in 2011. Blunden, J. and D. S. Arndt, Eds. *Bulletin of the American Meteorological Society*, S68-S69, <http://dx.doi.org/10.1175/2012BAMSStateoftheClimate.1>
- Johnson, G. C., J. M. Lyman, J. K. Willis, S. Levitus, T. Boyer, J. Antonov, and S. A. Good, 2012: Global Oceans: Ocean Heat Content. In State of the Climate in 2011. Blunden, J. and D. S. Arndt, Eds. *Bulletin of the American Meteorological Society*, S62-S65, <http://dx.doi.org/10.1175/2012BAMSStateoftheClimate.1>
- Johnson, G. C., S. Schmidtko, and J. M. Lyman, 2012: Relative contributions of temperature and salinity to seasonal mixed layer density changes and horizontal density

- gradients. *Journal of Geophysical Research: Oceans*, **117**, C04015, <http://dx.doi.org/10.1029/2011JC007651>
- Joyce, T. M., 2012: New perspectives on eighteen-degree water formation in the North Atlantic. *Journal of Oceanography*, **68**, 45-52, <http://dx.doi.org/10.1007/s10872-011-0029-0>
- Jury, M. R., 2012: Physical Oceanographic Influences on Central Benguela Fish Catch. *Earth Interactions*, **16**, 1-15, <http://dx.doi.org/10.1175/2012EI421.1>
- Juza, M., T. Penduff, J. M. Brankart, and B. Barnier, 2012: Estimating the distortion of mixed layer property distributions induced by the Argo sampling. *Journal of Operational Oceanography*, **5**, 45-58, <http://dx.doi.org/10.1080/1755876X.2012.11020131>
- Kobashi, F. and A. Kubokawa, 2012: Review on North Pacific Subtropical Countercurrents and Subtropical Fronts: role of mode waters in ocean circulation and climate. *Journal of Oceanography*, **68**, 21-43, <http://dx.doi.org/10.1007/s10872-011-0083-7>
- Kobashi, F. and S.-P. Xie, 2012: Interannual variability of the North Pacific Subtropical Countercurrent: role of local ocean-atmosphere interaction. *Journal of Oceanography*, **68**, 113-126, <http://dx.doi.org/10.1007/s10872-011-0048-x>
- Kobayashi, T., K. Mizuno, and T. Suga, 2012: Long-term variations of surface and intermediate waters in the southern Indian Ocean along 32°S. *Journal of Oceanography*, **68**, 243-265, <http://dx.doi.org/10.1007/s10872-011-0093-5>
- Köhl, A., F. Siegmund, and D. Stammer, 2012: Impact of assimilating bottom pressure anomalies from GRACE on ocean circulation estimates. *Journal of Geophysical Research: Oceans*, **117**, C04032, <http://dx.doi.org/10.1029/2011JC007623>
- Kolodziejczyk, N. and F. Gaillard, 2012: Observation of spiciness interannual variability in the Pacific pycnocline. *Journal of Geophysical Research: Oceans*, **117**, C12018, <http://dx.doi.org/10.1029/2012JC008365>
- Kouketsu, S., H. Tomita, E. Oka, S. Hosoda, T. Kobayashi, and K. Sato, 2012: The role of meso-scale eddies in mixed layer deepening and mode water formation in the western North Pacific. *Journal of Oceanography*, **68**, 63-77, <http://dx.doi.org/10.1007/s10872-011-0049-9>
- Kovačević, V., B. B. Manca, L. Ursella, K. Schroeder, S. Cozzi, M. Burca, E. Mauri, R. Gerin, G. Notarstefano, and D. Deponte, 2012: Water mass properties and dynamic conditions of the Eastern Mediterranean in June 2007. *Progress in Oceanography*, **104**, 59-79, <http://dx.doi.org/10.1016/j.pocean.2012.05.006>
- Lagerloef, G., F. Wentz, S. Yueh, H.-Y. Kao, G. C. Johnson, and J. M. Lyman, 2012: Aquarius Satellite Mission Provides New, Detailed View of Sea Surface Salinity. In State of the Climate in 2011. Blunden, J. and D. S. Arndt, Eds. *Bulletin of the American Meteorological Society*, S70-S71, <http://dx.doi.org/10.1175/2012BAMSStateoftheClimate.1>
- Lau, W. K. M., D. E. Waliser, and W. S. Kessler, 2012: The oceans. *Intraseasonal Variability in the Atmosphere-Ocean Climate System*, Springer Berlin Heidelberg, 199-246, http://dx.doi.org/10.1007/978-3-642-13914-7_6.
- Lavigne, H., F. D'Ortenzio, H. Claustre, and A. Poteau, 2012: Towards a merged satellite and in situ fluorescence ocean chlorophyll product. *Biogeosciences*, **9**, 2111-2125, <http://dx.doi.org/10.5194/bg-9-2111-2012>

- Lefevre, N. and L. Merlivat, 2012: Carbon and oxygen net community production in the eastern tropical Atlantic estimated from a moored buoy. *Global Biogeochemical Cycles*, **26**, GB1009, <http://dx.doi.org/10.1029/2010GB004018>
- Lemarie, F., J. Kurian, A. F. Shchepetkin, M. Jeroen Molemaker, F. Colas, and J. C. McWilliams, 2012: Are there inescapable issues prohibiting the use of terrain-following coordinates in climate models? *Ocean Modelling*, **42**, 57-79, <http://dx.doi.org/10.1016/j.ocemod.2011.11.007>
- Levitus, S., J. I. Antonov, T. P. Boyer, O. K. Baranova, H. E. Garcia, R. A. Locarnini, A. V. Mishonov, J. R. Reagan, D. Seidov, E. S. Yarosh, and M. M. Zweng, 2012: World ocean heat content and thermosteric sea level change (0–2000 m), 1955–2010. *Geophysical Research Letters*, **39**, L10603, <http://dx.doi.org/10.1029/2012GL051106>
- Levitus, S., T. Boyer, J. Antonov, and S. A. Good, 2012: Ocean Heat Content. In the State of the Climate in 2011. Blunden, J. and D. S. Arndt, Eds. *Bulletin of the American Meteorological Society*, S62-S65, <http://dx.doi.org/10.1175/2012BAMSStateoftheClimate.1>
- Li, Y. and F. Wang, 2012: Spreading and salinity change of North Pacific Tropical Water in the Philippine Sea. *Journal of Oceanography*, **68**, 439-452, <http://dx.doi.org/10.1007/s10872-012-0110-3>
- Li, Y., F. Wang, and Y. Sun, 2012: Low-frequency spiciness variations in the tropical Pacific Ocean observed during 2003–2012. *Geophysical Research Letters*, **39**, L23601, <http://dx.doi.org/10.1029/2012GL053971>
- Li, Y., F. Wang, and F. Zhai, 2012: Interannual Variations of Subsurface Spiciness in the Philippine Sea: Observations and Mechanism. *Journal of Physical Oceanography*, **42**, 1022-1038, <http://dx.doi.org/10.1175/JPO-D-12-06.1>
- Li, Z., 2012: Interannual and decadal variability of the subtropical mode water formation in the South Pacific Ocean. *Ocean Modelling*, **47**, 96-112, <http://dx.doi.org/10.1016/j.ocemod.2012.02.001>
- Liao, G., Y. Yuan, C. Yang, H. Chen, H. Wang, and W. Huang, 2012: Current Observations of Internal Tides and Parametric Subharmonic Instability in Luzon Strait. *Atmosphere-Ocean*, **50**, 59-76, <http://dx.doi.org/10.1080/07055900.2012.742007>
- Lim, S., C. J. Jang, I. S. Oh, and J. Park, 2012: Climatology of the mixed layer depth in the East/Japan Sea. *Journal of Marine Systems*, **96–97**, 1-14, <http://dx.doi.org/10.1016/j.jmarsys.2012.01.003>
- Lin, I. I., 2012: Typhoon-induced phytoplankton blooms and primary productivity increase in the western North Pacific subtropical ocean. *Journal of Geophysical Research: Oceans*, **117**, C03039, <http://dx.doi.org/10.1029/2011JC007626>
- Liu, C., A. Köhl, and D. Stammer, 2012: Adjoint-Based Estimation of Eddy-Induced Tracer Mixing Parameters in the Global Ocean. *Journal of Physical Oceanography*, **42**, 1186-1206, <http://dx.doi.org/10.1175/JPO-D-11-0162.1>
- Liu, Y., C. Dong, Y. Guan, D. Chen, J. McWilliams, and F. Nencioli, 2012: Eddy analysis in the subtropical zonal band of the North Pacific Ocean. *Deep Sea Research Part I: Oceanographic Research Papers*, **68**, 54-67, <http://dx.doi.org/10.1016/j.dsr.2012.06.001>
- Loeb, N. G., J. M. Lyman, G. C. Johnson, R. P. Allan, D. R. Doelling, T. Wong, B. J. Soden, and

- G. L. Stephens, 2012: Observed changes in top-of-the-atmosphere radiation and upper-ocean heating consistent within uncertainty. *Nature Geosci*, **5**, 110-113, <http://dx.doi.org/10.1038/ngeo1375>
- Luo, H., A. Bracco, I. Yashayaev, and E. Di Lorenzo, 2012: The interannual variability of potential temperature in the central Labrador Sea. *Journal of Geophysical Research: Oceans*, **117**, C10016, <http://dx.doi.org/10.1029/2012JC007988>
- Lyman, J. M., 2012: Estimating Global Energy Flow from the Global Upper Ocean. *Surveys in Geophysics*, **33**, 387-393, <http://dx.doi.org/10.1007/s10712-011-9167-6>
- Mahadevan, A., E. D'Asaro, C. Lee, and M. J. Perry, 2012: Eddy-Driven Stratification Initiates North Atlantic Spring Phytoplankton Blooms. *Science*, **337**, 54-58, <http://dx.doi.org/10.1126/science.1218740>
- Maneesha, K., V. S. N. Murty, M. Ravichandran, T. Lee, W. Yu, and M. J. McPhaden, 2012: Upper ocean variability in the Bay of Bengal during the tropical cyclones Nargis and Laila. *Progress in Oceanography*, **106**, 49-61, <http://dx.doi.org/10.1016/j.pocean.2012.06.006>
- Mankad, B. M., R. Sharma, S. Basu, and P. K. Pal, 2012: Altimeter data assimilation in the tropical Indian Ocean using water property conserving scheme. *Journal of Earth System Science*, **121**, 251-262, <http://dx.doi.org/10.1007/s12040-012-0149-y>
- Mankad, B. M., R. Sharma, P. K. Pal, and S. Basu, 2012: Estimating depth of the 20°C isotherm from sea level in the Arabian Sea. *Remote Sensing Letters*, **3**, 413-421, <http://dx.doi.org/10.1080/01431161.2011.610377>
- Marchuk, G. I. and V. B. Zalesny, 2012: Modeling of the World Ocean circulation with the four-dimensional assimilation of temperature and salinity fields. *Izvestiya Atmospheric and Oceanic Physics*, **48**, 15-29, <http://dx.doi.org/10.1134/S0001433812010070>
- Martin, M., P. Dash, A. Ignatov, V. Banzon, H. Beggs, B. Brasnett, J.-F. Cayula, J. Cummings, C. Donlon, C. Gentemann, R. Grumbine, S. Ishizaki, E. Maturi, R. W. Reynolds, and J. Roberts-Jones, 2012: Group for High Resolution Sea Surface temperature (GHRSSST) analysis fields inter-comparisons. Part 1: A GHRSSST multi-product ensemble (GMPE). *Deep Sea Research Part II: Topical Studies in Oceanography*, **77-80**, 21-30, <http://dx.doi.org/10.1016/j.dsr2.2012.04.013>
- Mateus, M., G. Riflet, P. Chambel, L. Fernandes, R. Fernandes, M. Juliano, F. Campuzano, H. de Pablo, and R. Neves, 2012: An operational model for the West Iberian coast: products and services. *Ocean Science*, **8**, 713-732, <http://dx.doi.org/10.5194/os-8-713-2012>
- Matthews, D., B. S. Powell, and I. Janeković, 2012: Analysis of four-dimensional variational state estimation of the Hawaiian waters. *Journal of Geophysical Research: Oceans*, **117**, C03013, <http://dx.doi.org/10.1029/2011JC007575>
- McCarthy, G. D., B. A. King, P. Cipollini, E. L. McDonagh, J. R. Blundell, and A. Biastoch, 2012: On the sub-decadal variability of South Atlantic Antarctic Intermediate Water. *Geophysical Research Letters*, **39**, L10605, <http://dx.doi.org/10.1029/2012GL051270>
- McPhaden, M. J., 2012: A 21st century shift in the relationship between ENSO SST and warm water volume anomalies. *Geophysical Research Letters*, **39**, L09706, <http://dx.doi.org/10.1029/2012GL051826>

- Mecklenburg, S., M. Drusch, Y. H. Kerr, J. Font, M. Martin-Neira, S. Delwart, G. Buenadicha, N. Reul, E. Daganzo-Eusebio, R. Oliva, and R. Crapolicchio, 2012: ESA's Soil Moisture and Ocean Salinity Mission: Mission Performance and Operations. *Ieee Transactions on Geoscience and Remote Sensing*, **50**, 1354-1366, <http://dx.doi.org/10.1109/tgrs.2012.2187666>
- Meinen, C. S., A. R. Piola, R. C. Perez, and S. L. Garzoli, 2012: Deep Western Boundary Current transport variability in the South Atlantic: preliminary results from a pilot array at 34.5° S. *Ocean Science*, **8**, 1041-1054, <http://dx.doi.org/10.5194/os-8-1041-2012>
- Melsom, A., F. Counillon, J. H. LaCasce, and L. Bertino, 2012: Forecasting search areas using ensemble ocean circulation modeling. *Ocean Dynamics*, **62**, 1245-1257, <http://dx.doi.org/10.1007/s10236-012-0561-5>
- Ménesguen, C., B. L. Hua, X. Carton, F. Klingelhoefer, P. Schnürle, and C. Reichert, 2012: Arms winding around a meddy seen in seismic reflection data close to the Morocco coastline. *Geophysical Research Letters*, **39**, L05604, <http://dx.doi.org/10.1029/2011GL050798>
- Merchant, C. J., O. Embury, N. A. Rayner, D. I. Berry, G. K. Corlett, K. Lean, K. L. Veal, E. C. Kent, D. T. Llewellyn-Jones, J. J. Remedios, and R. Saunders, 2012: A 20 year independent record of sea surface temperature for climate from Along-Track Scanning Radiometers. *Journal of Geophysical Research: Oceans*, **117**, C12013, <http://dx.doi.org/10.1029/2012JC008400>
- Merrifield, M., P. Thompson, D. P. Chambers, G. Mitchum, M. Menendez, R. S. Nerem, E. W. Leuliette, L. Miller, S. Holgate, J. J. Marra, and W. V. Sweet, 2012: Sea level variability and change. In the State of the Climate in 2011. Blunden, J. and D. S. Arndt, Eds. *Bulletin of the American Meteorological Society*, S81-S83, <http://dx.doi.org/10.1175/2012BAMSStateoftheClimate.1>
- Messenger, C. and V. Faure, 2012: Validation of remote sensing and weather model forecasts in the Agulhas ocean area to 57S by ship observations. *South African Journal of Science*, **108**, <http://dx.doi.org/10.4102/sajs.v108i3/4.735>
- Meyssignac, B. and A. Cazenave, 2012: Sea level: A review of present-day and recent-past changes and variability. *Journal of Geodynamics*, **58**, 96-109, <http://dx.doi.org/10.1016/j.jog.2012.03.005>
- Mignot, J., A. Lazar, and M. Lacarra, 2012: On the formation of barrier layers and associated vertical temperature inversions: A focus on the northwestern tropical Atlantic. *Journal of Geophysical Research: Oceans*, **117**, C02010, <http://dx.doi.org/10.1029/2011JC007435>
- Moore, A. M., H. G. Arango, and G. Broquet, 2012: Estimates of Analysis and Forecast Error Variances Derived from the Adjoint of 4D-Var. *Monthly Weather Review*, **140**, 3183-3203, <http://dx.doi.org/10.1175/MWR-D-11-00141.1>
- Mulet, S., M. H. Rio, A. Mignot, S. Guinehut, and R. Morrow, 2012: A new estimate of the global 3D geostrophic ocean circulation based on satellite data and in-situ measurements. *Deep Sea Research Part II: Topical Studies in Oceanography*, **77-80**, 70-81, <http://dx.doi.org/10.1016/j.dsr2.2012.04.012>
- Nagai, T., A. Tandon, H. Yamazaki, M. J. Doubell, and S. Gallagher, 2012: Direct observations of microscale turbulence and thermohaline structure in the Kuroshio Front. *Journal*

- of Geophysical Research: Oceans*, **117**, C08013,
<http://dx.doi.org/10.1029/2011JC007228>
- Nagamani, P. V., M. M. Ali, G. J. Goni, D. N. Pedro, J. C. Pezzullo, T. V. S. Udaya Bhaskar, V. V. Gopalakrishna, and N. Kurian, 2012: Validation of satellite-derived tropical cyclone heat potential with in situ observations in the North Indian Ocean. *Remote Sensing Letters*, **3**, 615-620, <http://dx.doi.org/10.1080/01431161.2011.640959>
- Nagano, A., H. Ichikawa, Y. Yoshikawa, S. Kizu, and K. Hanawa, 2012: Variation of the southward interior flow of the North Pacific subtropical gyre, as revealed by a repeat hydrographic survey. *Journal of Oceanography*, **68**, 361-368, <http://dx.doi.org/10.1007/s10872-012-0102-3>
- Nagura, M. and M. J. McPhaden, 2012: The dynamics of wind-driven intraseasonal variability in the equatorial Indian Ocean. *Journal of Geophysical Research: Oceans*, **117**, C02001, <http://dx.doi.org/10.1029/2011JC007405>
- Nakano, M. and P. P. Povinec, 2012: Long-term simulations of the ¹³⁷Cs dispersion from the Fukushima accident in the world ocean. *Journal of Environmental Radioactivity*, **111**, 109-115, <http://dx.doi.org/10.1016/j.jenvrad.2011.12.001>
- Nam, S., D.-j. Kim, and W. Moon, 2012: Observed impact of mesoscale circulation on oceanic response to Typhoon Man-Yi (2007). *Ocean Dynamics*, **62**, 1-12, <http://dx.doi.org/10.1007/s10236-011-0490-8>
- Nardelli, B. B., 2012: A Novel Approach for the High-Resolution Interpolation of In Situ Sea Surface Salinity. *Journal of Atmospheric and Oceanic Technology*, **29**, 867-879, <http://dx.doi.org/10.1175/JTECH-D-11-00099.1>
- Neetu, S., M. Lengaigne, E. M. Vincent, J. Vialard, G. Madec, G. Samson, M. R. Ramesh Kumar, and F. Durand, 2012: Influence of upper-ocean stratification on tropical cyclone-induced surface cooling in the Bay of Bengal. *Journal of Geophysical Research: Oceans*, **117**, C12020, <http://dx.doi.org/10.1029/2012JC008433>
- Nilsson, J. A. U., S. Dobricic, N. Pinardi, P. M. Poulain, and D. Pettenuzzo, 2012: Variational assimilation of Lagrangian trajectories in the Mediterranean ocean Forecasting System. *Ocean Science*, **8**, 249-259, <http://dx.doi.org/10.5194/os-8-249-2012>
- Nyadjro, E. S., B. Subrahmanyam, V. S. N. Murty, and J. F. Shriver, 2012: The role of salinity on the dynamics of the Arabian Sea mini warm pool. *Journal of Geophysical Research: Oceans*, **117**, C09002, <http://dx.doi.org/10.1029/2012JC007978>
- Oka, E. and B. Qiu, 2012: Progress of North Pacific mode water research in the past decade. *Journal of Oceanography*, **68**, 5-20, <http://dx.doi.org/10.1007/s10872-011-0032-5>
- Oka, E., B. Qiu, S. Kouketsu, K. Uehara, and T. Suga, 2012: Decadal seesaw of the Central and Subtropical Mode Water formation associated with the Kuroshio Extension variability. *Journal of Oceanography*, **68**, 355-360, <http://dx.doi.org/10.1007/s10872-011-0098-0>
- Oke, P. R., G. B. Brassington, J. Cummings, M. Martin, and F. Hernandez, 2012: GODAE inter-comparisons in the Tasman and Coral Seas. *Journal of Operational Oceanography*, **5**, 11-24, <http://dx.doi.org/10.1080/1755876X.2012.11020135>
- Oke, P. R. and P. Sakov, 2012: Assessing the footprint of a regional ocean observing system. *Journal of Marine Systems*, **105-108**, 30-51, <http://dx.doi.org/10.1016/j.jmarsys.2012.05.009>

- Ollivier, A., Y. Faugere, N. Picot, M. Ablain, P. Femenias, and J. Benveniste, 2012: Envisat Ocean Altimeter Becoming Relevant for Mean Sea Level Trend Studies. *Marine Geodesy*, **35**, 118-136, <http://dx.doi.org/10.1080/01490419.2012.721632>
- Panteleev, G., M. Yaremchuk, V. Luchin, D. Nechaev, and T. Kukuchi, 2012: Variability of the Bering Sea circulation in the period 1992–2010. *Journal of Oceanography*, **68**, 485-496, <http://dx.doi.org/10.1007/s10872-012-0113-0>
- Park, G.-H. and R. Wanninkhof, 2012: A large increase of the CO₂ sink in the western tropical North Atlantic from 2002 to 2009. *Journal of Geophysical Research: Oceans*, **117**, C08029, <http://dx.doi.org/10.1029/2011JC007803>
- Parmuzin, E. I., 2012: The study and numerical solution to the inverse problem of salinity fluxes in the ocean dynamics model based on ARGO buoys data. *Russian Journal of Numerical Analysis and Mathematical Modelling*, **27**, 261-288, <http://dx.doi.org/10.1515/rnam-2012-0015>
- Pérez-Hernández, M. D., A. Hernández-Guerra, T. M. Joyce, and P. Vélez-Belchí, 2012: Wind-Driven Cross-Equatorial Flow in the Indian Ocean. *Journal of Physical Oceanography*, **42**, 2234-2253, <http://dx.doi.org/10.1175/JPO-D-12-033.1>
- Piecuch, C. G. and R. M. Ponte, 2012: Importance of Circulation Changes to Atlantic Heat Storage Rates on Seasonal and Interannual Time Scales. *Journal of Climate*, **25**, 350-362, <http://dx.doi.org/10.1175/JCLI-D-11-00123.1>
- Piecuch, C. G. and R. M. Ponte, 2012: Buoyancy-driven interannual sea level changes in the southeast tropical Pacific. *Geophysical Research Letters*, **39**, L05607, <http://dx.doi.org/10.1029/2012GL051130>
- Plaza, M. A. S., J. L. Pelegrí, F. Machin, and V. B. Barrios, 2012: Inter-decadal changes in stratification and double diffusion in a transatlantic section along 7.5 degrees N. *Scientia Marina*, **76**, 189-207, <http://dx.doi.org/10.3989/scimar.03616.19G>
- Ponte, R. M., 2012: Heat Content ocean/oceanic heat content and Temperature ocean/oceanic temperature of the Ocean ocean/oceanic. *Encyclopedia of Sustainability Science and Technology*, R. Meyers, Ed., Springer New York, 4909-4928, http://dx.doi.org/10.1007/978-1-4419-0851-3_485.
- Potemra, J. T., 2012: Numerical modeling with application to tracking marine debris. *Marine Pollution Bulletin*, **65**, 42-50, <http://dx.doi.org/10.1016/j.marpolbul.2011.06.026>
- Prakash, P., S. Prakash, H. Rahaman, M. Ravichandran, and S. Nayak, 2012: Is the trend in chlorophyll-a in the Arabian Sea decreasing? *Geophysical Research Letters*, **39**, L23605, <http://dx.doi.org/10.1029/2012GL054187>
- Prakash, S., C. Mahesh, and R. M. Gairola, 2012: Observational Study of the Oceanic Surface Parameters in the Eastern Indian Ocean During Two Contrasting Dipole Years 2005 and 2006. *IEEE Geoscience and Remote Sensing Letters*, **9**, 906-909, <http://dx.doi.org/10.1109/lgrs.2012.2182987>
- Prakash, S., C. Mahesh, and R. M. Gairola, 2012: Observed Relationships between Surface Freshwater Flux and Salinity in the North Indian Ocean. *Atmospheric and Oceanic Science Letters*, **5**, 163-169, <http://dx.doi.org/10.1080/16742834.2012.11446984>
- Prakash, S., T. M. B. Nair, T. V. S. U. Bhaskar, P. Prakash, and D. Gilbert, 2012: Oxycline variability in the central Arabian Sea: An Argo-oxygen study. *Journal of Sea Research*, **71**, 1-8, <http://dx.doi.org/10.1016/j.seares.2012.03.003>

- Putman, N. F., R. Scott, P. Verley, R. Marsh, and G. C. Hays, 2012: Natal site and offshore swimming influence fitness and long-distance ocean transport in young sea turtles. *Marine Biology*, **159**, 2117-2126, <http://dx.doi.org/10.1007/s00227-012-1995-5>
- Qiu, Y., W. Cai, L. Li, and X. Guo, 2012: Argo profiles variability of barrier layer in the tropical Indian Ocean and its relationship with the Indian Ocean Dipole. *Geophysical Research Letters*, **39**, L08605, <http://dx.doi.org/10.1029/2012GL051441>
- Quay, P., J. Stutsman, and T. Steinhoff, 2012: Primary production and carbon export rates across the subpolar N. Atlantic Ocean basin based on triple oxygen isotope and dissolved O₂ and Ar gas measurements. *Global Biogeochemical Cycles*, **26**, GB2003, <http://dx.doi.org/10.1029/2010GB004003>
- Radenac, M.-H., F. Léger, A. Singh, and T. Delcroix, 2012: Sea surface chlorophyll signature in the tropical Pacific during eastern and central Pacific ENSO events. *Journal of Geophysical Research: Oceans*, **117**, C04007, <http://dx.doi.org/10.1029/2011JC007841>
- Ratheesh, S., R. Sharma, and S. Basu, 2012: Projection-Based Assimilation of Satellite-Derived Surface Data in an Indian Ocean Circulation Model. *Marine Geodesy*, **35**, 175-187, <http://dx.doi.org/10.1080/01490419.2011.637855>
- Ravichandran, M., M. S. Girishkumar, and S. Riser, 2012: Observed variability of chlorophyll-a using Argo profiling floats in the southeastern Arabian Sea. *Deep Sea Research Part I: Oceanographic Research Papers*, **65**, 15-25, <http://dx.doi.org/10.1016/j.dsr.2012.03.003>
- Rayson, M. D., N. L. Jones, and G. N. Ivey, 2012: Temporal variability of the standing internal tide in the Browse Basin, Western Australia. *Journal of Geophysical Research: Oceans*, **117**, C06013, <http://dx.doi.org/10.1029/2011JC007523>
- Reul, N., J. Tenerelli, J. Boutin, B. Chapron, F. Paul, E. Brion, F. Gaillard, and O. Archer, 2012: Overview of the First SMOS Sea Surface Salinity Products. Part I: Quality Assessment for the Second Half of 2010. *Ieee Transactions on Geoscience and Remote Sensing*, **50**, 1636-1647, <http://dx.doi.org/10.1109/tgrs.2012.2188408>
- Reverdin, G., S. Morisset, J. Boutin, and N. Martin, 2012: Rain-induced variability of near sea-surface T and S from drifter data. *Journal of Geophysical Research: Oceans*, **117**, C02032, <http://dx.doi.org/10.1029/2011JC007549>
- Rimaud, J., S. Speich, B. Blanke, and N. Grima, 2012: The exchange of Intermediate Water in the southeast Atlantic: Water mass transformations diagnosed from the Lagrangian analysis of a regional ocean model. *Journal of Geophysical Research: Oceans*, **117**, C08034, <http://dx.doi.org/10.1029/2012JC008059>
- Rintoul, S., M. P. Meredith, O. Schofield, and L. Newman, 2012: The Southern Ocean Observing System. *Oceanography*, **25**, 68-69, <http://dx.doi.org/10.5670/oceanog.2012.76#sthash.lyNnKDUU.dpuf>
- Roberts-Jones, J., E. K. Fiedler, and M. J. Martin, 2012: Daily, Global, High-Resolution SST and Sea Ice Reanalysis for 1985–2007 Using the OSTIA System. *Journal of Climate*, **25**, 6215-6232, <http://dx.doi.org/10.1175/JCLI-D-11-00648.1>
- Roemmich, D., W. J. Gould, and J. Gilson, 2012: 135 years of global ocean warming between the Challenger expedition and the Argo Programme. *Nature Clim. Change*, **2**, 425-428, <http://dx.doi.org/10.1038/nclimate1461>

- Rousseaux, C. S. G., R. Lowe, M. Feng, A. M. Waite, and P. A. Thompson, 2012: The role of the Leeuwin Current and mixed layer depth on the autumn phytoplankton bloom off Ningaloo Reef, Western Australia. *Continental Shelf Research*, **32**, 22-35, <http://dx.doi.org/10.1016/j.csr.2011.10.010>
- Rusciano, E., S. Speich, and M. Ollitrault, 2012: Inter-ocean exchanges and the spreading of Antarctic Intermediate Water south of Africa. *Journal of Geophysical Research: Oceans*, **117**, C10010, <http://dx.doi.org/10.1029/2012JC008266>
- Sadhuram, Y., K. Maneesha, and T. V. Ramana Murty, 2012: Intensification of Aila (May 2009) due to a warm core eddy in the north Bay of Bengal. *Natural Hazards*, **63**, 1515-1525, <http://dx.doi.org/10.1007/s11069-011-9837-1>
- Sakov, P., F. Counillon, L. Bertino, K. A. Lisæter, P. R. Oke, and A. Korabely, 2012: TOPAZ4: an ocean-sea ice data assimilation system for the North Atlantic and Arctic. *Ocean Science*, **8**, 633-656, <http://dx.doi.org/10.5194/os-8-633-2012>
- Salim, M., R. Nayak, D. Swain, and V. Dadhwal, 2012: Sea Surface Height Variability in the Tropical Indian Ocean: Steric Contribution. *Journal of the Indian Society of Remote Sensing*, **40**, 679-688, <http://dx.doi.org/10.1007/s12524-011-0188-x>
- Sallee, J. B., R. J. Matear, S. R. Rintoul, and A. Lenton, 2012: Localized subduction of anthropogenic carbon dioxide in the Southern Hemisphere oceans. *Nature Geoscience*, **5**, 579-584, <http://dx.doi.org/10.1038/ngeo1523>
- Sasaki, H., S.-P. Xie, B. Taguchi, M. Nonaka, S. Hosoda, and Y. Masumoto, 2012: Interannual variations of the Hawaiian Lee Countercurrent induced by potential vorticity variability in the subsurface. *Journal of Oceanography*, **68**, 93-111, <http://dx.doi.org/10.1007/s10872-011-0074-8>
- Schmidtko, S. and G. C. Johnson, 2012: Multidecadal Warming and Shoaling of Antarctic Intermediate Water. *Journal of Climate*, **25**, 207-221, <http://dx.doi.org/10.1175/JCLI-D-11-00021.1>
- Scott, R. B., N. Ferry, M. Drévillon, C. Barron, N. Jourdain, J.-M. Lellouche, E. Metzger, M.-H. Rio, and O. Smedstad, 2012: Estimates of surface drifter trajectories in the equatorial Atlantic: a multi-model ensemble approach. *Ocean Dynamics*, **62**, 1091-1109, <http://dx.doi.org/10.1007/s10236-012-0548-2>
- Sharma, R., B. Mankad, N. Agarwal, R. Kumar, and S. Basu, 2012: An assessment of two different satellite-derived precipitation products in relation to simulation of sea surface salinity in the tropical Indian Ocean. *Journal of Geophysical Research: Oceans*, **117**, C07001, <http://dx.doi.org/10.1029/2012JC008078>
- Sil, S. and A. Chakraborty, 2012: The Mechanism of the 20°C Isotherm Depth Oscillations for the Bay of Bengal. *Marine Geodesy*, **35**, 233-245, <http://dx.doi.org/10.1080/01490419.2011.637865>
- Simav, M., H. Yıldız, A. Türkezer, O. Lenk, and E. Özsoy, 2012: Sea level variability at Antalya and Menteş tide gauges in Turkey: atmospheric, steric and land motion contributions. *Studia Geophysica et Geodaetica*, **56**, 215-230, <http://dx.doi.org/10.1007/s11200-010-0067-x>
- Skagseth, Ø. and K. A. Mork, 2012: Heat content in the Norwegian Sea, 1995–2010. *ICES Journal of Marine Science: Journal du Conseil*, **69**, 826-832, <http://dx.doi.org/10.1093/icesjms/fss026>

- Smith, D. M., A. A. Scaife, and B. P. Kirtman, 2012: What is the current state of scientific knowledge with regard to seasonal and decadal forecasting? *Environmental Research Letters*, **7**, 015602, <http://dx.doi.org/10.1088/1748-9326/7/1/015602>
- Smith, H. E. K., T. Tyrrell, A. Charalampopoulou, C. Dumousseaud, O. J. Legge, S. Birchenough, L. R. Pettit, R. Garley, S. E. Hartman, M. C. Hartman, N. Sagoo, C. J. Daniels, E. P. Achterberg, and D. J. Hydes, 2012: Predominance of heavily calcified coccolithophores at low CaCO₃ saturation during winter in the Bay of Biscay. *Proceedings of the National Academy of Sciences*, **109**, 8845-8849, <http://dx.doi.org/10.1073/pnas.1117508109>
- Søiland, H. and G. Huse, 2012: Using RAFOS floats to simulate overwinter transport of *Calanus finmarchicus* in the Norwegian Sea. *Marine Biology Research*, **8**, 502-507, <http://dx.doi.org/10.1080/17451000.2011.639780>
- Song, H., A. J. Miller, S. McClatchie, E. D. Weber, K. M. Nieto, and D. M. Checkley, 2012: Application of a data-assimilation model to variability of Pacific sardine spawning and survivor habitats with ENSO in the California Current System. *Journal of Geophysical Research: Oceans*, **117**, C03009, <http://dx.doi.org/10.1029/2011JC007302>
- Soto-Mendoza, S., C. Parada, L. Castro, F. Colas, and W. Schneider, 2012: Modeling transport and survival of anchoveta eggs and yolk-sac larvae in the coastal zone off central-southern Chile: Assessing spatial and temporal spawning parameters. *Progress in Oceanography*, **92-95**, 178-191, <http://dx.doi.org/10.1016/j.pocean.2011.07.001>
- Soto-Navarro, J., F. Criado-Aldeanueva, J. C. Sánchez-Garrido, and J. García-Lafuente, 2012: Recent thermohaline trends of the Atlantic waters inflowing to the Mediterranean Sea. *Geophysical Research Letters*, **39**, L01604, <http://dx.doi.org/10.1029/2011GL049907>
- Srokosz, M., M. Baringer, H. Bryden, S. Cunningham, T. Delworth, S. Lozier, J. Marotzke, and R. Sutton, 2012: Past, Present, and Future Changes in the Atlantic Meridional Overturning Circulation. *Bulletin of the American Meteorological Society*, **93**, 1663-1676, <http://dx.doi.org/10.1175/BAMS-D-11-00151.1>
- Steiner, N. S., M. Robert, M. Arychuk, M. L. Lavoisier, A. Merzouk, M. A. Peña, W. A. Richardson, and P. D. Tortell, 2012: Evaluating DMS measurements and model results in the Northeast subarctic Pacific from 1996–2010. *Biogeochemistry*, **110**, 269-285, <http://dx.doi.org/10.1007/s10533-011-9669-9>
- Stepanov, V. N., K. Haines, and G. C. Smith, 2012: Assimilation of RAPID array observations into an ocean model. *Quarterly Journal of the Royal Meteorological Society*, **138**, 2105-2117, <http://dx.doi.org/10.1002/qj.1945>
- Stephens, G. L., J. Li, M. Wild, C. A. Clayson, N. Loeb, S. Kato, T. L'Ecuyer, P. W. Stackhouse, M. Lebsock, and T. Andrews, 2012: An update on Earth's energy balance in light of the latest global observations. *Nature Geoscience*, **5**, 691-696, <http://dx.doi.org/10.1038/ngeo1580>
- Sterl, A., R. Bintanja, L. Brodeau, E. Gleeson, T. Koenigk, T. Schmith, T. Semmler, C. Severijns, K. Wyser, and S. Yang, 2012: A look at the ocean in the EC-Earth climate model. *Climate Dynamics*, **39**, 2631-2657, <http://dx.doi.org/10.1007/s00382-011-1239-2>

- Sun, C., M. Feng, R. J. Matear, M. A. Chamberlain, P. Craig, K. R. Ridgway, and A. Schiller, 2012: Marine Downscaling of a Future Climate Scenario for Australian Boundary Currents. *Journal of Climate*, **25**, 2947-2962, <http://dx.doi.org/10.1175/JCLI-D-11-00159.1>
- Sun, L., Y.-J. Yang, T. Xian, Y. Wang, and Y.-F. Fu, 2012: Ocean Responses to Typhoon Namtheun Explored with Argo Floats and Multiplatform Satellites. *Atmosphere-Ocean*, **50**, 15-26, <http://dx.doi.org/10.1080/07055900.2012.742420>
- Taguchi, B., R. Furue, N. Komori, A. Kuwano-Yoshida, M. Nonaka, H. Sasaki, and W. Ohfuchi, 2012: Deep oceanic zonal jets constrained by fine-scale wind stress curls in the South Pacific Ocean: A high-resolution coupled GCM study. *Geophysical Research Letters*, **39**, L08602, <http://dx.doi.org/10.1029/2012GL051248>
- Taylor, K. E., R. J. Stouffer, and G. A. Meehl, 2012: An Overview of CMIP5 and the Experiment Design. *Bulletin of the American Meteorological Society*, **93**, 485-498, <http://dx.doi.org/10.1175/BAMS-D-11-00094.1>
- Terray, L., L. Corre, S. Cravatte, T. Delcroix, G. Reverdin, and A. Ribes, 2012: Near-Surface Salinity as Nature's Rain Gauge to Detect Human Influence on the Tropical Water Cycle. *Journal of Climate*, **25**, 958-977, <http://dx.doi.org/10.1175/JCLI-D-10-05025.1>
- Thadathil, P., C. C. Bajish, S. Behera, and V. V. Gopalakrishna, 2012: Drift in Salinity Data from Argo Profiling Floats in the Sea of Japan. *Journal of Atmospheric and Oceanic Technology*, **29**, 129-138, <http://dx.doi.org/10.1175/JTECH-D-11-00018.1>
- Torres, R. R. and M. N. Tsimplis, 2012: Seasonal sea level cycle in the Caribbean Sea. *Journal of Geophysical Research: Oceans*, **117**, C07011, <http://dx.doi.org/10.1029/2012JC008159>
- Toyama, K. and T. Suga, 2012: Roles of mode waters in the formation and maintenance of central water in the North Pacific. *Journal of Oceanography*, **68**, 79-92, <http://dx.doi.org/10.1007/s10872-011-0040-5>
- Trenary, L. L. and W. Han, 2012: Intraseasonal-to-Interannual Variability of South Indian Ocean Sea Level and Thermocline: Remote versus Local Forcing. *Journal of Physical Oceanography*, **42**, 602-627, <http://dx.doi.org/10.1175/JPO-D-11-084.1>
- Turner, A. G., M. Joshi, E. S. Robertson, and S. J. Woolnough, 2012: The effect of Arabian Sea optical properties on SST biases and the South Asian summer monsoon in a coupled GCM. *Climate Dynamics*, **39**, 811-826, <http://dx.doi.org/10.1007/s00382-011-1254-3>
- Ueno, H., I. Yasuda, S. Itoh, H. Onishi, Y. Hiroe, T. Suga, and E. Oka, 2012: Modification of a Kenai eddy along the Alaskan Stream. *Journal of Geophysical Research: Oceans*, **117**, C08032, <http://dx.doi.org/10.1029/2011JC007506>
- Ullgren, J. E. and M. White, 2012: Observations of mesoscale variability in the Rockall Trough. *Deep Sea Research Part I: Oceanographic Research Papers*, **64**, 1-8, <http://dx.doi.org/10.1016/j.dsr.2012.01.015>
- Valladeau, G., J. F. Legeais, M. Ablain, S. Guinehut, and N. Picot, 2012: Comparing Altimetry with Tide Gauges and Argo Profiling Floats for Data Quality Assessment and Mean Sea Level Studies. *Marine Geodesy*, **35**, 42-60, <http://dx.doi.org/10.1080/01490419.2012.718226>
- Van Roekel, L. P., B. Fox-Kemper, P. P. Sullivan, P. E. Hamlington, and S. R. Haney, 2012: The form and orientation of Langmuir cells for misaligned winds and waves. *Journal of*

- Geophysical Research: Oceans*, **117**, C05001,
<http://dx.doi.org/10.1029/2011JC007516>
- Venables, H., M. P. Meredith, A. Atkinson, and P. Ward, 2012: Fronts and habitat zones in the Scotia Sea. *Deep Sea Research Part II: Topical Studies in Oceanography*, **59-60**, 14-24,
<http://dx.doi.org/10.1016/j.dsr2.2011.08.012>
- Vialard, J., K. Drushka, H. Bellenger, M. Lengaigne, S. Pous, and J. P. Duvel, 2012: Understanding Madden-Julian-Induced sea surface temperature variations in the North Western Australian Basin. *Climate Dynamics*, **41**, 3203-3218,
<http://dx.doi.org/10.1007/s00382-012-1541-7>
- Vidal-Vijande, E., A. Pascual, B. Barnier, J. M. Molines, N. Ferry, and J. Tintore, 2012: Multiparametric analysis and validation in the western Mediterranean of three global OGCM hindcasts. *2012*, **76**, 18, <https://doi.org/10.3989/scimar.03613.19D>
- Vincent, E. M., M. Lengaigne, G. Madec, J. Vialard, G. Samson, N. C. Jourdain, C. E. Menkes, and S. Jullien, 2012: Processes setting the characteristics of sea surface cooling induced by tropical cyclones. *Journal of Geophysical Research: Oceans*, **117**, C02020,
<http://dx.doi.org/10.1029/2011JC007396>
- Vinogradova, N. T. and R. M. Ponte, 2012: Assessing Temporal Aliasing in Satellite-Based Surface Salinity Measurements. *Journal of Atmospheric and Oceanic Technology*, **29**, 1391-1400, <http://dx.doi.org/10.1175/JTECH-D-11-00055.1>
- Vissa, N. K., A. N. V. Satyanarayana, and B. Prasad Kumar, 2012: Response of Upper Ocean during passage of MALA cyclone utilizing ARGO data. *International Journal of Applied Earth Observation and Geoinformation*, **14**, 149-159,
<http://dx.doi.org/10.1016/j.jag.2011.08.015>
- Volpe, G., B. B. Nardelli, P. Cipollini, R. Santoleri, and I. S. Robinson, 2012: Seasonal to interannual phytoplankton response to physical processes in the Mediterranean Sea from satellite observations. *Remote Sensing of Environment*, **117**, 223-235,
<http://dx.doi.org/10.1016/j.rse.2011.09.020>
- Wada, A., N. Usui, and K. Sato, 2012: Relationship of maximum tropical cyclone intensity to sea surface temperature and tropical cyclone heat potential in the North Pacific Ocean. *Journal of Geophysical Research: Atmospheres*, **117**, D11118,
<http://dx.doi.org/10.1029/2012JD017583>
- Wagawa, T., Y. Yoshikawa, Y. Isoda, E. Oka, K. Uehara, T. Nakano, K. Kuma, and S. Takagi, 2012: Flow fields around the Emperor Seamounts detected from current data. *Journal of Geophysical Research: Oceans*, **117**, C06006,
<http://dx.doi.org/10.1029/2011JC007530>
- Wang, C., D. Wilson, T. Haack, P. Clark, H. Lean, and R. Marshall, 2012: Effects of Initial and Boundary Conditions of Mesoscale Models on Simulated Atmospheric Refractivity. *Journal of Applied Meteorology and Climatology*, **51**, 115-132,
<http://dx.doi.org/10.1175/JAMC-D-11-012.1>
- Wang, D. X., Y. H. Qin, X. J. Xiao, Z. Q. Zhang, and F. M. Wu, 2012: Preliminary results of a new global ocean reanalysis. *Chinese Science Bulletin*, **57**, 3509-3517,
<http://dx.doi.org/10.1007/s11434-012-5232-x>
- Wang, G., D. Wang, and T. Zhou, 2012: Upper layer circulation in the Luzon Strait. *Aquatic Ecosystem Health & Management*, **15**, 39-45,

- <http://dx.doi.org/10.1080/14634988.2012.649241>
- Wang, H., G. Wang, D. Chen, and R. Zhang, 2012: Reconstruction of Three-Dimensional Pacific Temperature with Argo and Satellite Observations. *Atmosphere-Ocean*, **50**, 116-128, <http://dx.doi.org/10.1080/07055900.2012.742421>
- Wang, H., Z. Wang, X. Zhu, D. Wang, and G. Liu, 2012: Numerical study and prediction of nuclear contaminant transport from Fukushima Daiichi nuclear power plant in the North Pacific Ocean. *Chinese Science Bulletin*, **57**, 3518-3524, <http://dx.doi.org/10.1007/s11434-012-5171-6>
- Wang, H., Y. Yuan, W. Guan, C. Yang, G. Liao, and Z. Cao, 2012: Circulation Around Luzon Strait in September as Inferred from CTD, Argos and Argo Measurements and a Generalized Topography-Following Ocean Model. *Atmosphere-Ocean*, **50**, 40-58, <http://dx.doi.org/10.1080/07055900.2012.741563>
- Wang, H. Z. and R. Zhang, 2012: Freshwater flux product reconstruction based on Argo data and mixed layer model. *Acta Physica Sinica*, **61**,
- Wang, H. Z., R. Zhang, G. H. Wang, Y. Z. An, and B. G. Jin, 2012: Quality control of Argo temperature and salinity observation profiles. *Chinese Journal of Geophysics-Chinese Edition*, **5**, 577-588,
- Wang, L. and T.-J. Zhou, 2012: Assessing the Quality of Regional Ocean Reanalysis Data from ENSO Signals. *Atmospheric and Oceanic Science Letters*, **5**, 55-61, <http://dx.doi.org/10.1080/16742834.2012.11446965>
- Wang, X., W. Li, Y. Qi, and G. Han, 2012: Heat, salt and volume transports by eddies in the vicinity of the Luzon Strait. *Deep Sea Research Part I: Oceanographic Research Papers*, **61**, 21-33, <http://dx.doi.org/10.1016/j.dsr.2011.11.006>
- Wang, Z., S. F. DiMarco, M. M. Stössel, X. Zhang, M. K. Howard, and K. du Vall, 2012: Oscillation responses to tropical Cyclone Gonu in northern Arabian Sea from a moored observing system. *Deep Sea Research Part I: Oceanographic Research Papers*, **64**, 129-145, <http://dx.doi.org/10.1016/j.dsr.2012.02.005>
- Ward, P., A. Atkinson, H. J. Venables, G. A. Tarling, M. J. Whitehouse, S. Fielding, M. A. Collins, R. Korb, A. Black, G. Stowasser, K. Schmidt, S. E. Thorpe, and P. Enderlein, 2012: Food web structure and bioregions in the Scotia Sea: A seasonal synthesis. *Deep Sea Research Part II: Topical Studies in Oceanography*, **59-60**, 253-266, <http://dx.doi.org/10.1016/j.dsr2.2011.08.005>
- Wen, C., Y. Xue, and A. Kumar, 2012: Seasonal Prediction of North Pacific SSTs and PDO in the NCEP CFS Hindcasts. *Journal of Climate*, **25**, 5689-5710, <http://dx.doi.org/10.1175/JCLI-D-11-00556.1>
- Wen, C., Y. Xue, and A. Kumar, 2012: Ocean-Atmosphere Characteristics of Tropical Instability Waves Simulated in the NCEP Climate Forecast System Reanalysis. *Journal of Climate*, **25**, 6409-6425, <http://dx.doi.org/10.1175/JCLI-D-11-00477.1>
- Whalen, C. B., L. D. Talley, and J. A. MacKinnon, 2012: Spatial and temporal variability of global ocean mixing inferred from Argo profiles. *Geophysical Research Letters*, **39**, L18612, <http://dx.doi.org/10.1029/2012GL053196>
- Wu, B. and T. Zhou, 2012: Prediction of decadal variability of sea surface temperature by a coupled global climate model FGOALS_gl developed in LASG/IAP. *Chinese Science Bulletin*, **57**, 2453-2459, <http://dx.doi.org/10.1007/s11434-012-5134-y>

- Wu, L., W. Cai, L. Zhang, H. Nakamura, A. Timmermann, T. Joyce, M. J. McPhaden, M. Alexander, B. Qiu, M. Visbeck, P. Chang, and B. Giese, 2012: Enhanced warming over the global subtropical western boundary currents. *Nature Climate Change*, **2**, 161-166, <http://dx.doi.org/10.1038/nclimate1353>
- Wu, Q. and D. Chen, 2012: Typhoon-Induced Variability of the Oceanic Surface Mixed Layer Observed by Argo Floats in the Western North Pacific Ocean. *Atmosphere-Ocean*, **50**, 4-14, <http://dx.doi.org/10.1080/07055900.2012.712913>
- Wu, X., X.-H. Yan, Y.-H. Jo, and W. T. Liu, 2012: Estimation of Subsurface Temperature Anomaly in the North Atlantic Using a Self-Organizing Map Neural Network. *Journal of Atmospheric and Oceanic Technology*, **29**, 1675-1688, <http://dx.doi.org/10.1175/JTECH-D-12-00013.1>
- Wu, Y., C. Tang, and C. Hannah, 2012: The circulation of eastern Canadian seas. *Progress in Oceanography*, **106**, 28-48, <http://dx.doi.org/10.1016/j.pocean.2012.06.005>
- Xing, X., A. Morel, H. Claustre, F. D'Ortenzio, and A. Poteau, 2012: Combined processing and mutual interpretation of radiometry and fluorometry from autonomous profiling Bio-Argo floats: 2. Colored dissolved organic matter absorption retrieval. *Journal of Geophysical Research: Oceans*, **117**, C04022, <http://dx.doi.org/10.1029/2011JC007632>
- Xu, L., S.-P. Xie, and Q. Liu, 2012: Mode water ventilation and subtropical countercurrent over the North Pacific in CMIP5 simulations and future projections. *Journal of Geophysical Research: Oceans*, **117**, C12009, <http://dx.doi.org/10.1029/2012JC008377>
- Xu, X., W. J. Schmitz, H. E. Hurlburt, and P. J. Hogan, 2012: Mean Atlantic meridional overturning circulation across 26.5°N from eddy-resolving simulations compared to observations. *Journal of Geophysical Research: Oceans*, **117**, C03042, <http://dx.doi.org/10.1029/2011JC007586>
- Xue, Y., M. A. Balmaseda, T. Boyer, N. Ferry, S. Good, I. Ishikawa, A. Kumar, M. Rienecker, A. J. Rosati, and Y. Yin, 2012: A Comparative Analysis of Upper-Ocean Heat Content Variability from an Ensemble of Operational Ocean Reanalyses. *Journal of Climate*, **25**, 6905-6929, <http://dx.doi.org/10.1175/JCLI-D-11-00542.1>
- Yan, Y., D. Xu, Y. Qi, and Z. Gan, 2012: Observations of Freshening in the Northwest Pacific Subtropical Gyre near Luzon Strait. *Atmosphere-Ocean*, **50**, 92-102, <http://dx.doi.org/10.1080/07055900.2012.715078>
- Yang, Y.-J., L. Sun, A.-M. Duan, Y.-B. Li, Y.-F. Fu, Y.-F. Yan, Z.-Q. Wang, and T. Xian, 2012: Impacts of the binary typhoons on upper ocean environments in November 2007. *Journal of Applied Remote Sensing*, **6**, 063583, <http://dx.doi.org/10.1117/1.JRS.6.063583>
- Yin, X., J. Boutin, N. Martin, and P. Spurgeon, 2012: Optimization of L-Band Sea Surface Emissivity Models Deduced From SMOS Data. *IEEE Transactions on Geoscience and Remote Sensing*, **50**, 1414-1426, <https://doi.org/10.1109/TGRS.2012.2184547>
- Yin, X., J. Boutin, and P. Spurgeon, 2012: First Assessment of SMOS Data Over Open Ocean: Part I-Pacific Ocean. *IEEE Transactions on Geoscience and Remote Sensing*, **50**, 1648-1661, <http://dx.doi.org/10.1109/tgrs.2012.2188407>
- Yin, X., F. Qiao, Y. Yang, C. Xia, and X. Chen, 2012: Argo data assimilation in ocean general

- circulation model of Northwest Pacific Ocean. *Ocean Dynamics*, **62**, 1059-1071, <http://dx.doi.org/10.1007/s10236-012-0549-1>
- Yu, T., Z. Deng, G. Han, X. Wu, H. Fu, and K. Wu, 2012: The Reanalysis of Currents and Throughflow Volume Transport in the Taiwan Strait. *Marine Geodesy*, **35**, 16-31, <http://dx.doi.org/10.1080/01490419.2011.572765>
- Yuan, Y., G. Liao, C. Yang, Z. Liu, and H. Chen, 2012: Currents in Luzon Strait Obtained from CTD and Argo Observations and a Diagnostic Model in October 2008. *Atmosphere-Ocean*, **50**, 27-39, <http://dx.doi.org/10.1080/07055900.2012.712914>
- Zavala-Garay, J., J. L. Wilkin, and H. G. Arango, 2012: Predictability of Mesoscale Variability in the East Australian Current Given Strong-Constraint Data Assimilation. *Journal of Physical Oceanography*, **42**, 1402-1420, <http://dx.doi.org/10.1175/JPO-D-11-0168.1>
- Zhai, X. and L. Sheldon, 2012: On the North Atlantic Ocean Heat Content Change between 1955–70 and 1980–95. *Journal of Climate*, **25**, 3619-3628, <http://dx.doi.org/10.1175/JCLI-D-11-00187.1>
- Zhang, L. and C. Wang, 2012: Remote influences on freshwater flux variability in the Atlantic warm pool region. *Geophysical Research Letters*, **39**, L19714, <http://dx.doi.org/10.1029/2012GL053530>
- Zhang, Q., H. Liu, H. Zhou, and D. Zheng, 2012: Variation Features of the Mindanao Eddy from Argo Data. *Atmosphere-Ocean*, **50**, 103-115, <http://dx.doi.org/10.1080/07055900.2012.742855>
- Zhang, Q., H. Zhou, and H. Liu, 2012: Interannual variability in the Mindanao Eddy and its impact on thermohaline structure pattern. *Acta Oceanologica Sinica*, **31**, 56-65, <http://dx.doi.org/10.1007/s13131-012-0247-3>
- Zhang, X., R. D. Hetland, M. Marta-Almeida, and S. F. DiMarco, 2012: A numerical investigation of the Mississippi and Atchafalaya freshwater transport, filling and flushing times on the Texas-Louisiana Shelf. *Journal of Geophysical Research: Oceans*, **117**, C11009, <http://dx.doi.org/10.1029/2012JC008108>
- Zhang, Y. and Y. Du, 2012: Seasonal variability of salinity budget and water exchange in the northern Indian Ocean from HYCOM assimilation. *Chinese Journal of Oceanology and Limnology*, **30**, 1082-1092, <http://dx.doi.org/10.1007/s00343-012-1284-7>
- Zheng, F., L. Y. Wan, and H. Wang, 2012: Distinguished Effects of Interannual Salinity Variability on the Development of the Central-Pacific El Niño Events. *Atmospheric and Oceanic Science Letters*, **5**, 123-127, <http://dx.doi.org/10.1080/16742834.2012.11446977>
- Zheng, F. and R.-H. Zhang, 2012: Effects of interannual salinity variability and freshwater flux forcing on the development of the 2007/08 La Niña event diagnosed from Argo and satellite data. *Dynamics of Atmospheres and Oceans*, **57**, 45-57, <http://dx.doi.org/10.1016/j.dynatmoce.2012.06.002>
- Zhu, J., B. Huang, and M. A. Balmaseda, 2012: An ensemble estimation of the variability of upper-ocean heat content over the tropical Atlantic Ocean with multi-ocean reanalysis products. *Climate Dynamics*, **39**, 1001-1020, <http://dx.doi.org/10.1007/s00382-011-1189-8>
- Zuo, H., A. C. Naveira Garabato, A. L. New, and A. Oschlies, 2012: Mechanisms of subantarctic mode water upwelling in a hybrid-coordinate global GCM. *Ocean*

2011 (229)

- Adani, M., S. Dobricic, and N. Pinardi, 2011: Quality Assessment of a 1985–2007 Mediterranean Sea Reanalysis. *Journal of Atmospheric and Oceanic Technology*, **28**, 569–589, <http://dx.doi.org/10.1175/2010JTECHO798.1>
- Agoshkov, V. I., N. B. Zakharova, and E. I. Parmuzin, 2011: The study and numerical solution of the inverse problem of heat flows in the ocean dynamics model based on ARGO buoys data. *Russian Journal of Numerical Analysis and Mathematical Modelling*, **26**, 231–261, <http://dx.doi.org/10.1515/rjnamm.2011.013>
- Alessandri, A., A. Borrelli, S. Gualdi, E. Scoccimarro, and S. Masina, 2011: Tropical Cyclone Count Forecasting Using a Dynamical Seasonal Prediction System: Sensitivity to Improved Ocean Initialization. *Journal of Climate*, **24**, 2963–2982, <http://dx.doi.org/10.1175/2010JCLI3585.1>
- Alves, O., D. Hudson, M. Balmaseda, and L. Shi, 2011: Seasonal and Decadal Prediction. *Operational Oceanography in the 21st Century*, A. Schiller and G. Brassington, Eds., Springer Netherlands, 513–542, http://dx.doi.org/10.1007/978-94-007-0332-2_20.
- Annapurnaiah, K., T. V. S. U. Bhaskar, and T. M. B. Nair, 2011: Validation of mixed layer depth derived using satellite data and wave model with in-situ observations. *International Journal of Oceans and Oceanography*, **5**, 23–34,
- Arango, H. G., J. C. Levin, E. N. Curchitser, B. Zhang, A. M. Moore, W. Q. Han, A. L. Gordon, C. M. Lee, and J. B. Girton, 2011: Development of a Hindcast/Forecast Model for the Philippine Archipelago. *Oceanography*, **24**, 58–69, <http://dx.doi.org/10.5670/oceanog.2011.04>
- Arhan, M., S. Speich, C. Messenger, G. Dencausse, R. Fine, and M. Boye, 2011: Anticyclonic and cyclonic eddies of subtropical origin in the subantarctic zone south of Africa. *J. Geophys. Res.*, **116**, C11004, <http://dx.doi.org/10.1029/2011JC007140>
- Arnault, S., I. Pujol, and J. L. Melice, 2011: In Situ Validation of Jason-1 and Jason-2 Altimetry Missions in the Tropical Atlantic Ocean. *Marine Geodesy*, **34**, 319–339, <http://dx.doi.org/10.1080/01490419.2011.584833>
- Auad, G., D. Roemmich, and J. Gilson, 2011: The California Current System in relation to the Northeast Pacific Ocean circulation. *Progress in Oceanography*, **91**, 576–592, <https://doi.org/10.1016/j.pocean.2011.09.004>
- Baird, M. E., J. D. Everett, and I. M. Suthers, 2011: Analysis of southeast Australian zooplankton observations of 1938–42 using synoptic oceanographic conditions. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 699–711, <http://dx.doi.org/10.1016/j.dsr2.2010.06.002>
- Baird, M. E., I. M. Suthers, D. A. Griffin, B. Hollings, C. Pattiaratchi, J. D. Everett, M. Roughan, K. Oubelkheir, and M. Doblin, 2011: The effect of surface flooding on the physical-biogeochemical dynamics of a warm-core eddy off southeast Australia. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 592–605, <http://dx.doi.org/10.1016/j.dsr2.2010.10.002>
- Barbero, L., J. Boutin, L. Merlivat, N. Martin, T. Takahashi, S. C. Sutherland, and R.

- Wanninkhof, 2011: Importance of water mass formation regions for the air-sea CO₂ flux estimate in the Southern Ocean. *Global Biogeochemical Cycles*, **25**, <http://dx.doi.org/10.1029/2010GB003818>
- Barker, P. M., J. R. Dunn, C. M. Domingues, and S. E. Wijffels, 2011: Pressure Sensor Drifts in Argo and Their Impacts. *Journal of Atmospheric and Oceanic Technology*, **28**, 1036-1049, <http://dx.doi.org/10.1175/2011JTECHO831.1>
- Barre, N., C. Provost, A. Renault, and N. Senneael, 2011: Fronts, meanders and eddies in Drake Passage during the ANT-XXIII/3 cruise in January-February 2006: A satellite perspective. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 2533-2554, <http://dx.doi.org/10.1016/j.dsr2.2011.01.003>
- Behrendt, A., E. Fahrbach, M. Hoppema, G. Rohardt, O. Boebel, O. Klatt, A. Wisotzki, and H. Witte, 2011: Variations of Winter Water properties and sea ice along the Greenwich meridian on decadal time scales. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 2524-2532, <http://dx.doi.org/10.1016/j.dsr2.2011.07.001>
- Belokopytov, V. N., 2011: Interannual variations of the renewal of waters of the cold intermediate layer in the Black Sea for the last decades. *Physical Oceanography*, **20**, 347-355, <http://dx.doi.org/10.1007/s11110-011-9090-x>
- Biancamaria, S., A. Cazenave, N. M. Mognard, W. Llovel, and F. Frappart, 2011: Satellite-based high latitude snow volume trend, variability and contribution to sea level over 1989/2006. *Global and Planetary Change*, **75**, 99-107, <http://dx.doi.org/10.1016/j.gloplacha.2010.10.011>
- Brandt, P., A. Funk, V. Hormann, M. Dengler, R. J. Greatbatch, and J. M. Toole, 2011: Interannual atmospheric variability forced by the deep equatorial Atlantic Ocean. *Nature*, **473**, 497-500, <http://dx.doi.org/10.1038/nature10013>
- Brassington, G. B., 2011: System Design for Operational Ocean Forecasting. *Operational Oceanography in the 21st Century*, A. Schiller and G. Brassington, Eds., Springer Netherlands, 441-486, http://dx.doi.org/10.1007/978-94-007-0332-2_18.
- Brassington, G. B., N. Summons, and R. Lumpkin, 2011: Observed and simulated Lagrangian and eddy characteristics of the East Australian Current and the Tasman Sea. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 559-573, <http://dx.doi.org/10.1016/j.dsr2.2010.10.001>
- Broquet, G., A. M. Moore, H. G. Arango, and C. A. Edwards, 2011: Corrections to ocean surface forcing in the California Current System using 4D variational data assimilation. *Ocean Modelling*, **36**, 116-132, <http://dx.doi.org/10.1016/j.ocemod.2010.10.005>
- Byju, P. and S. Prasanna Kumar, 2011: Physical and biological response of the Arabian Sea to tropical cyclone Phyan and its implications. *Marine Environmental Research*, **71**, 325-330, <http://dx.doi.org/10.1016/j.marenvres.2011.02.008>
- Chaigneau, A., M. Le Texier, G. Eldin, C. Grados, and O. Pizarro, 2011: Vertical structure of mesoscale eddies in the eastern South Pacific Ocean: A composite analysis from altimetry and Argo profiling floats. *J. Geophys. Res.*, **116**, C11025, <http://dx.doi.org/10.1029/2011JC007134>
- Chambers, D. P., 2011: ENSO-correlated fluctuations in the ocean bottom pressure and wind-stress curl in the North Pacific. *Ocean Science*, **7**, 685-692,

- <http://dx.doi.org/10.5194/os-7-685-2011>
- Chambers, D. P. and J. Schroter, 2011: Measuring ocean mass variability from satellite gravimetry. *Journal of Geodynamics*, **52**, 333-343, <http://dx.doi.org/10.1016/j.jog.2011.04.004>
- Chang, P.-H., C.-H. Cho, and S.-B. Ryoo, 2011: Recent changes of Mixed Layer Depth in the East/Japan Sea: 1994–2007. *Asia-Pacific Journal of Atmospheric Sciences*, **47**, 497-501, <http://dx.doi.org/10.1007/s13143-011-0034-7>
- Chang, Y.-S., A. Rosati, and S. Zhang, 2011: A construction of pseudo salinity profiles for the global ocean: Method and evaluation. *J. Geophys. Res.*, **116**, C02002, <http://dx.doi.org/10.1029/2010JC006386>
- Chang, Y.-S., S. Zhang, and A. Rosati, 2011: Improvement of salinity representation in an ensemble coupled data assimilation system using pseudo salinity profiles. *Geophysical Research Letters*, **38**, L13609, <http://dx.doi.org/10.1029/2011GL048064>
- Chassignet, E. P., 2011: Isopycnic and Hybrid Ocean Modeling in the Context of GODAE. *Operational Oceanography in the 21st Century*, A. Schiller and G. Brassington, Eds., Springer Netherlands, 263-293, http://dx.doi.org/10.1007/978-94-007-0332-2_11.
- Chen, D. K., Y. H. Pei, and X. M. Zhang, 2011: Luzon Strait Argo experiments. *A Collection of Argo research papers*, Ocean Press, 39-56,
- Chen, G., Y. Hou, and X. Chu, 2011: Mesoscale eddies in the South China Sea: Mean properties, spatiotemporal variability, and impact on thermohaline structure. *J. Geophys. Res.*, **116**, C06018, <http://dx.doi.org/10.1029/2010JC006716>
- Chen, S., D. Wang, and Z. X. Zhang, 2011: Comparison of PFL Data from WOD09 and Argo Data. *Ocean Technology*, **4**, 21-32,
- Christoffersen, P., R. I. Mugford, K. J. Heywood, I. Joughin, J. A. Dowdeswell, J. P. M. Syvitski, A. Luckman, and T. J. Benham, 2011: Warming of waters in an East Greenland fjord prior to glacier retreat: mechanisms and connection to large-scale atmospheric conditions. *Cryosphere*, **5**, 701-714, <http://dx.doi.org/10.5194/tc-5-701-2011>
- Chu, P. C., 2011: Global upper ocean heat content and climate variability. *Ocean Dynamics*, **61**, 1189-1204, <http://dx.doi.org/10.1007/s10236-011-0411-x>
- Church, J. A., N. J. White, L. F. Konikow, C. M. Domingues, J. G. Cogley, E. Rignot, J. M. Gregory, M. R. van den Broeke, A. J. Monaghan, and I. Velicogna, 2011: Revisiting the Earth's sea-level and energy budgets from 1961 to 2008. *Geophysical Research Letters*, **38**, L18601, <http://dx.doi.org/10.1029/2011GL048794>
- Ciasto, L. M., M. A. Alexander, C. Deser, and M. H. England, 2011: On the Persistence of Cold-Season SST Anomalies Associated with the Annular Modes. *Journal of Climate*, **24**, 2500-2515, <http://dx.doi.org/10.1175/2010JCLI3535.1>
- Cummings, J. A., 2011: Ocean Data Quality Control. *Operational Oceanography in the 21st Century*, A. Schiller and G. Brassington, Eds., Springer Netherlands, 91-121, http://dx.doi.org/10.1007/978-94-007-0332-2_4.
- Czeschel, R., L. Stramma, F. U. Schwarzkopf, B. S. Giese, A. Funk, and J. Karstensen, 2011: Middepth circulation of the eastern tropical South Pacific and its link to the oxygen minimum zone. *J. Geophys. Res.*, **116**, C01015, <http://dx.doi.org/10.1029/2010JC006565>
- David, D. T., S. P. Kumar, P. Byju, M. S. S. Sarma, A. Suryanarayana, and V. S. N. Murty, 2011:

- Observational evidence of lower-frequency Yanai waves in the central equatorial Indian Ocean. *J. Geophys. Res.*, **116**, C06009, <http://dx.doi.org/10.1029/2010JC006603>
- Delcroix, T., G. Alory, S. Cravatte, T. Correge, and M. J. McPhaden, 2011: A gridded sea surface salinity data set for the tropical Pacific with sample applications (1950-2008). *Deep Sea Research Part I: Oceanographic Research Papers*, **58**, 38-48, <http://dx.doi.org/10.1016/j.dsr.2010.11.002>
- Deng, Z., Y. Tang, and H. J. Freeland, 2011: Evaluation of several model error schemes in the EnKF assimilation: Applied to Argo profiles in the Pacific Ocean. *J. Geophys. Res.*, **116**, C09027, <http://dx.doi.org/10.1029/2011JC006942>
- Despres, A., G. Reverdin, and F. d'Ovidio, 2011: Summertime modification of surface fronts in the North Atlantic subpolar gyre. *J. Geophys. Res.*, **116**, C10003, <http://dx.doi.org/10.1029/2011JC006950>
- Dessler, A. E., 2011: Cloud variations and the Earth's energy budget. *Geophysical Research Letters*, **38**, L19701, <http://dx.doi.org/10.1029/2011GL049236>
- Dhomps, A. L., S. Guinehut, P. Y. Le Traon, and G. Larnicol, 2011: A global comparison of Argo and satellite altimetry observations. *Ocean Science*, **7**, 175-183, <https://doi.org/10.5194/os-7-175-2011>
- Divakaran, P. and G. B. Brassington, 2011: Arterial ocean circulation of the southeast Indian Ocean. *Geophysical Research Letters*, **38**, L01802, <http://dx.doi.org/10.1029/2010GL045574>
- Dong, S., M. Baringer, G. Goni, and S. Garzoli, 2011: Importance of the assimilation of Argo float measurements on the Meridional Overturning Circulation in the South Atlantic. *Geophysical Research Letters*, **38**, L18603, <http://dx.doi.org/10.1029/2011GL048982>
- Donohue, S. M. and M. W. Stacey, 2011: Rossby Waves and the Variability of the North Pacific Current during 2002-03. *Journal of Physical Oceanography*, **41**, 1708-1719, <http://dx.doi.org/10.1175/2011JPO4463.1>
- Downes, S. M., A. Gnanadesikan, S. M. Griffies, and J. L. Sarmiento, 2011: Water Mass Exchange in the Southern Ocean in Coupled Climate Models. *Journal of Physical Oceanography*, **41**, 1756-1771, <http://dx.doi.org/10.1175/2011JPO4586.1>
- Fahrbach, E., M. Hoppema, G. Rohardt, O. Boebel, O. Klatt, and A. Wisotzki, 2011: Warming of deep and abyssal water masses along the Greenwich meridian on decadal time scales: The Weddell gyre as a heat buffer. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 2509-2523, <http://dx.doi.org/10.1016/j.dsr2.2011.06.007>
- Fauchereau, N., A. Tagliabue, L. Bopp, and P. M. S. Monteiro, 2011: The response of phytoplankton biomass to transient mixing events in the Southern Ocean. *Geophysical Research Letters*, **38**, L17601, <http://dx.doi.org/10.1029/2011GL048498>
- Faure, V., M. Arhan, S. Speich, and S. Gladyshev, 2011: Heat budget of the surface mixed layer south of Africa. *Ocean Dynamics*, **61**, 1441-1458, <http://dx.doi.org/10.1007/s10236-011-0444-1>
- Feng, M., C. Boning, A. Biastoch, E. Behrens, E. Weller, and Y. Masumoto, 2011: The reversal of the multi-decadal trends of the equatorial Pacific easterly winds, and the Indonesian Throughflow and Leeuwin Current transports. *Geophysical Research Letters*, **38**, L11604, <http://dx.doi.org/10.1029/2011GL047291>

- Ferron, B., 2011: A 4D-variational approach applied to an eddy-permitting North Atlantic configuration: Synthetic and real data assimilation of altimeter observations. *Ocean Modelling*, **39**, 370-385, <http://dx.doi.org/10.1016/j.ocemod.2011.06.001>
- Fiorino, S. T., R. M. Randall, R. J. Bartell, A. D. Downs, P. C. Chu, and C. W. Fan, 2011: Climate Change: Anticipated Effects on High-Energy Laser Weapon Systems in Maritime Environments. *Journal of Applied Meteorology and Climatology*, **50**, 153-166, <http://dx.doi.org/10.1175/2010JAMC2482.1>
- Forget, G., G. Maze, M. Buckley, and J. Marshall, 2011: Estimated Seasonal Cycle of North Atlantic Eighteen Degree Water Volume. *Journal of Physical Oceanography*, **41**, 269-286, <http://dx.doi.org/10.1175/2010JPO4257.1>
- Fox-Kemper, B., G. Danabasoglu, R. Ferrari, S. M. Griffies, R. W. Hallberg, M. M. Holland, M. E. Maltrud, S. Peacock, and B. L. Samuels, 2011: Parameterization of mixed layer eddies. III: Implementation and impact in global ocean climate simulations. *Ocean Modelling*, **39**, 61-78, <http://dx.doi.org/10.1016/j.ocemod.2010.09.002>
- Fu, W., J. L. Hoyer, and J. She, 2011: Assessment of the three dimensional temperature and salinity observational networks in the Baltic Sea and North Sea. *Ocean Science*, **7**, 75-90, <http://dx.doi.org/10.5194/os-7-75-2011>
- Fu, W. and J. Zhu, 2011: Effects of Sea Level Data Assimilation by Ensemble Optimal Interpolation and 3D Variational Data Assimilation on the Simulation of Variability in a Tropical Pacific Model. *Journal of Atmospheric and Oceanic Technology*, **28**, 1624-1640, <http://dx.doi.org/10.1175/JTECH-D-11-00044.1>
- Fujii, Y., M. Kamachi, S. Matsumoto, and S. Ishizaki, 2011: Barrier Layer and Relevant Variability of the Salinity Field in the Equatorial Pacific Estimated in an Ocean Reanalysis Experiment. *Pure and Applied Geophysics*, **169**, 579-594, <http://dx.doi.org/10.1007/s00024-011-0387-y>
- Garcia-Lafuente, J., A. Sanchez-Roman, C. Naranjo, and J. C. Sanchez-Garrido, 2011: The very first transformation of the Mediterranean outflow in the Strait of Gibraltar. *J. Geophys. Res.*, **116**, C07010, <http://dx.doi.org/10.1029/2011JC006967>
- Garzoli, S. L. and R. Matano, 2011: The South Atlantic and the Atlantic Meridional Overturning Circulation. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 1837-1847, <http://dx.doi.org/10.1016/j.dsr2.2010.10.063>
- Gasparin, F., A. Ganachaud, and C. Maes, 2011: A western boundary current east of New Caledonia: Observed characteristics. *Deep Sea Research Part I: Oceanographic Research Papers*, **58**, 956-969, <http://dx.doi.org/10.1016/j.dsr.2011.05.007>
- Geetha, G., T. V. S. U. Bhaskar, and E. P. R. Rao, 2011: Argo data and products of Indian Ocean for low bandwidth users. *International Journal of Oceans and Oceanography*, **5**, 1-8,
- George, S., R. Sharma, N. Agarwal, S. Basu, and A. Sarkar, 2011: Dynamic height anomaly from Argo profiles and sea-level anomaly from satellite altimetry: a comparative study in the Indian Ocean. *International Journal of Remote Sensing*, **32**, 5105-5113, <http://dx.doi.org/10.1080/01431161.2010.494638>
- Girishkumar, M. S., M. Ravichandran, M. J. McPhaden, and R. R. Rao, 2011: Intraseasonal variability in barrier layer thickness in the south central Bay of Bengal. *Journal of Geophysical Research-Oceans*, **116**, C03009,

- <http://dx.doi.org/10.1029/2010JC006657>
- Grist, J. P., S. A. Josey, L. Boehme, M. P. Meredith, F. J. M. Davidson, G. B. Stenson, and M. O. Hammill, 2011: Temperature signature of high latitude Atlantic boundary currents revealed by marine mammal-borne sensor and Argo data. *Geophysical Research Letters*, **38**, L15601, <http://dx.doi.org/10.1029/2011GL048204>
- Grunseich, G., B. Subrahmanyam, V. S. N. Murty, and B. S. Giese, 2011: Sea surface salinity variability during the Indian Ocean Dipole and ENSO events in the tropical Indian Ocean. *J. Geophys. Res.*, **116**, C11013, <http://dx.doi.org/10.1029/2011JC007456>
- Hackert, E., J. Ballabrera-Poy, A. J. Busalacchi, R.-H. Zhang, and R. Murtugudde, 2011: Impact of sea surface salinity assimilation on coupled forecasts in the tropical Pacific. *Journal of Geophysical Research-Oceans*, **116**, C05009, <http://dx.doi.org/10.1029/2010JC006708>
- Haines, K., J. A. Johannessen, P. Knudsen, D. Lea, M. H. Rio, L. Bertino, F. Davidson, and F. Hernandez, 2011: An ocean modelling and assimilation guide to using GOCE geoid products. *Ocean Science*, **7**, 151-164, <http://dx.doi.org/10.5194/os-7-151-2011>
- Halkides, D. and T. Lee, 2011: Mechanisms controlling seasonal mixed layer temperature and salinity in the Southwestern Tropical Indian Ocean. *Dynamics of Atmospheres and Oceans*, **51**, 77-93, <http://dx.doi.org/10.1016/j.dynatmoce.2011.03.002>
- Han, G., W. Li, X. F. Zhang, D. Li, Z. J. He, X. D. Wang, X. R. Wu, T. Yu, and J. R. Ma, 2011: A Regional Ocean Reanalysis System for Coastal Waters of China and Adjacent Seas. *Advances in Atmospheric Sciences*, **28**, 682-690, <http://dx.doi.org/10.1007/s00376-010-9184-2>
- Hansen, J., M. Sato, P. Kharecha, and K. von Schuckmann, 2011: Earth's energy imbalance and implications. *Atmospheric Chemistry and Physics* **11**, 13421-13449, <http://dx.doi.org/10.5194/acpd-11-27031-2011>
- He, Z. J., H. L. Fu, and G. J. Han, 2011: The impact of Argo data on the forecast accuracy of temperature and salinity in the China coastal waters and adjacent seas. *A Collection of Argo research papers*, Ocean Press, 72-81,
- Herraiz-Borreguero, L. and S. R. Rintoul, 2011: Subantarctic mode water: distribution and circulation. *Ocean Dynamics*, **61**, 103-126, <http://dx.doi.org/10.1007/s10236-010-0352-9>
- Herraiz-Borreguero, L. and S. R. Rintoul, 2011: Regional circulation and its impact on upper ocean variability south of Tasmania. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 2071-2081, <http://dx.doi.org/10.1016/j.dsr2.2011.05.022>
- Higginson, S., K. R. Thompson, J. Huang, M. Veronneau, and D. G. Wright, 2011: The mean surface circulation of the North Atlantic subpolar gyre: A comparison of estimates derived from new gravity and oceanographic measurements. *J. Geophys. Res.*, **116**, C08016, <http://dx.doi.org/10.1029/2010JC006877>
- Hobday, A. J., J. R. Hartog, C. M. Spillman, and O. Alves, 2011: Seasonal forecasting of tuna habitat for dynamic spatial management. *Canadian Journal of Fisheries and Aquatic Sciences*, **68**, 898-911, <http://dx.doi.org/10.1139/f2011-031>
- Holt, T., J. Cummings, C. Bishop, J. Doyle, X. Hong, S. Chen, and Y. Jin, 2011: Development and testing of a coupled ocean-atmosphere mesoscale ensemble prediction system. *Ocean Dynamics*, **61**, 1937-1954, <http://dx.doi.org/10.1007/s10236-011-0449-9>

- Horton, T. W., R. N. Holdaway, A. N. Zerbini, N. Hauser, C. Garrigue, A. Andriolo, and P. J. Clapham, 2011: Straight as an arrow: humpback whales swim constant course tracks during long-distance migration. *Biology Letters*, **7**, 674-679, <http://rsbl.royalsocietypublishing.org/content/early/2011/04/14/rsbl.2011.0279.abstract>
- Hosoda, S. and T. Suga, 2011: Argo Programme : Real Time Global Ocean Observing System for Monitoring Climate Variability and Change. *Bulletin of the Society of Sea Water Science, Japan*, **65**, 29-34, <http://dx.doi.org/10.11457/swsj.65.29>
- Hu, R. J., S. S. Sun, and Q. Y. Liu, 2011: Characteristics of the intraseasonal oscillations of temperature in the tropical Indian Ocean. *A Collection of Argo research papers*, Ocean Press, 82-95,
- Huang, B., Y. Xue, A. Kumar, and D. Behringer, 2011: AMOC variations in 1979-2008 simulated by NCEP operational ocean data assimilation system. *Climate Dynamics*, **38**, 513-525, <http://dx.doi.org/10.1007/s00382-011-1035-z>
- Iskandar, I. and M. J. McPhaden, 2011: Dynamics of wind-forced intraseasonal zonal current variations in the equatorial Indian Ocean. *Journal of Geophysical Research-Oceans*, **116**, C06019, <http://dx.doi.org/10.1029/2010JC006864>
- Itoh, S., T. Saruwatari, H. Nishikawa, I. Yasuda, K. Komatsu, A. Tsuda, T. Setou, and M. Shimizu, 2011: Environmental variability and growth histories of larval Japanese sardine (*Sardinops melanostictus*) and Japanese anchovy (*Engraulis japonicus*) near the frontal area of the Kuroshio. *Fisheries Oceanography*, **20**, 114-124, <http://dx.doi.org/10.1111/j.1365-2419.2011.00572.x>
- Johannessen, O., A. Korabely, V. Miles, M. Miles, and K. Solberg, 2011: Interaction Between the Warm Subsurface Atlantic Water in the Sermilik Fjord and Helheim Glacier in Southeast Greenland. *Surveys in Geophysics*, **32**, 387-396, <http://dx.doi.org/10.1007/s10712-011-9130-6>
- Johnson, G. C., 2011: Deep Signatures of Southern Tropical Indian Ocean Annual Rossby Waves*. *Journal of Physical Oceanography*, **41**, 1958-1964, <http://dx.doi.org/10.1175/JPO-D-11-029.1>
- Johnson, G. C. and J. M. Lyman, 2011: Global Oceans: Sea Surface Salinity. In the State of the Climate in 2010. Blunden, J., D. S. Arndt, and M. O. Barringer, Eds. *Bulletin of the American Meteorological Society*, **92**, S86-S88, <http://dx.doi.org/10.1175/1520-0477-92.6.S1>
- Johnson, G. C., J. M. Lyman, J. K. Willis, S. Levitus, T. Boyer, J. I. Antonov, and S. A. Good, 2011: Ocean heat content. In State of the Climate in 2010. Blunden, J., D. S. Arndt, and M. O. Barringer, Eds. *Bulletin of the American Meteorological Society*, **92**, S81-S86, <http://dx.doi.org/10.1175/JPO-D-11-029.1>
- Johnson, G. C. and S. Wijffels, 2011: Ocean density change contributions to sea level rise. *Oceanography*, **24**, 112-121, <http://dx.doi.org/10.5670/oceanog.2011.31>
- Joyce, T. M., 2011: New perspectives on eighteen-degree water formation in the North Atlantic. *Journal of Oceanography*, **68**, 45-52, <http://dx.doi.org/10.1007/s10872-011-0029-0>
- Juranek, L. W., R. A. Feely, D. Gilbert, H. Freeland, and L. A. Miller, 2011: Real-time estimation of pH and aragonite saturation state from Argo profiling floats: Prospects for an

- autonomous carbon observing strategy. *Geophysical Research Letters*, **38**, L17603, <http://dx.doi.org/10.1029/2011GL048580>
- Jury, M. R. and E. Rodriguez, 2011: Caribbean hurricanes: interannual variability and prediction. *Theoretical and Applied Climatology*, **106**, 105-115, <http://dx.doi.org/10.1007/s00704-011-0422-z>
- Kamenkovich, I., W. Cheng, C. Schmid, and D. E. Harrison, 2011: Effects of eddies on an ocean observing system with profiling floats: Idealized simulations of the Argo array. *J. Geophys. Res.*, **116**, C06003, <http://dx.doi.org/10.1029/2010JC006910>
- Kashino, Y., A. Ishida, and S. Hosoda, 2011: Observed Ocean Variability in the Mindanao Dome Region. *Journal of Physical Oceanography*, **41**, 287-302, <http://dx.doi.org/10.1175/2010JPO4329.1>
- Kimizuka, M., F. Kobashi, and N. Iwasaka, 2011: Water characteristics and temporal variations of the warm core ring of Sanriku of Japan observed by Argo floats. *Oceanography in Japan*, **20**, 149-165,
- Klingaman, N. P., S. J. Woolnough, H. Weller, and J. M. Slingo, 2011: The Impact of Finer-Resolution Air-Sea Coupling on the Intraseasonal Oscillation of the Indian Monsoon. *Journal of Climate*, **24**, 2451-2468, <http://dx.doi.org/10.1175/2010JCLI3868.1>
- Kobashi, F. and S.-P. Xie, 2011: Interannual variability of the North Pacific Subtropical Countercurrent: role of local ocean-atmosphere interaction. *Journal of Oceanography*, **68**, 113-126, <http://dx.doi.org/10.1007/s10872-011-0048-x>
- Kobayashi, T., K. Amaike, K. Watanabe, T. Ino, K. Asakawa, T. Suga, T. Kawano, and T. Hyakudome, 2011: Deep NINJA: A new float for deep ocean observation developed in Japan. *Proc. International Symposium on Underwater Technology 2011 and International Workshop on Scientific Use of Submarine Cables & Related Technologies*,
- Lachkar, Z. and N. Gruber, 2011: What controls biological production in coastal upwelling systems? Insights from a comparative modeling study. *Biogeosciences*, **8**, 2961-2976, <http://dx.doi.org/10.5194/bg-8-2961-2011>
- Langlais, C., S. Rintoul, and A. Schiller, 2011: Variability and mesoscale activity of the Southern Ocean fronts: Identification of a circumpolar coordinate system. *Ocean Modelling*, **39**, 79-96, <http://dx.doi.org/10.1016/j.ocemod.2011.04.010>
- Lee, H. J., J.-H. Park, M. Wimbush, K. T. Jung, C. J. Jang, Y.-K. Cho, Y.-K. Seo, and J. H. Nam, 2011: Tidal Effects on Intermediate Waters: A Case Study in the East/Japan Sea. *Journal of Physical Oceanography*, **41**, 234-240, <http://dx.doi.org/10.1175/2010JPO4510.1>
- Lee, M.-M., A. J. G. Nurser, I. Stevens, and J.-B. Sallee, 2011: Subduction over the Southern Indian Ocean in a High-Resolution Atmosphere-Ocean Coupled Model. *Journal of Climate*, **24**, 3830-3849, <http://dx.doi.org/10.1175/2011JCLI3888.1>
- Leuliette, E. W. and J. K. Willis, 2011: Balancing the sea level budget. *Oceanography*, **24**, 122-129, <http://dx.doi.org/10.5670/oceanog.2011.32>
- Levitus, S., J. Antonov, T. Boyer, J. R. Reagan, and C. Schmid, 2011: Sub-surface salinity. State of the Climate in 2010, Global Oceans. *Bulletin of the American Meteorological Society*, **92**, S88-S92, <http://dx.doi.org/10.1175/1520-0477-92.6.S1>

- Li, H. and J. P. Xu, 2011: Development of data assimilation and its application in ocean science. *Marine Science Bulletin*, **30**, 463-472,
- Li, W., G. J. Han, and Q. Li, 2011: Impact of Argo data on the regional ocean reanalysis for China coastal waters and adjacent seas. *A Collection of Argo research papers*, Ocean Press, 96-105,
- Lique, C., G. Garric, A.-M. Treguier, B. Barnier, N. Ferry, C.-E. Testut, and F. Girard-Ardhuin, 2011: Evolution of the Arctic Ocean Salinity, 2007-08: Contrast between the Canadian and the Eurasian Basins. *Journal of Climate*, **24**, 1705-1717, <http://dx.doi.org/10.1175/2010JCLI3762.1>
- Liu, H., Q. Zhang, Y. Duan, and Y. Hou, 2011: The three-dimensional structure and seasonal variation of the North Pacific meridional overturning circulation. *Acta Oceanologica Sinica*, **30**, 33-42, <http://dx.doi.org/10.1007/s13131-011-0117-4>
- Liu, Q., M. Feng, and D. Wang, 2011: ENSO-induced interannual variability in the southeastern South China Sea. *Journal of Oceanography*, **67**, 127-133, <http://dx.doi.org/10.1007/s10872-011-0002-y>
- Liu, Y. and Y. L. Zhao, 2011: Assimilation of temperature and salinity using isotropic and anisotropic recursive filters in Tropic Pacific. *Acta Oceanologica Sinica*, **30**, 15-23, <http://dx.doi.org/10.1007/s13131-011-0086-7>
- Liu, Z.-H., J. P. Xu, and C. H. Sun, 2011: *Combining sea surface height and temperature profile data to estimate global upper ocean heat content anomaly*. . *A Collection of Argo research papers*, Ocean press.
- Liu, Z.-H., J. P. Xu, C. H. Sun, and B. K. Zhu, 2011: The Characteristics of water mass distribution and its seasonal variation near the Luzon Strait. *Journal of Tropical Oceanography*, **30**, 11-19, <http://www.jto.ac.cn/EN/Y2011/V30/I1/11>
- Llovel, W., M. Becker, A. Cazenave, S. Jevrejeva, R. Alkama, B. Decharme, H. Douville, M. Ablain, and B. Beckley, 2011: Terrestrial waters and sea level variations on interannual time scale. *Global and Planetary Change*, **75**, 76-82, <http://dx.doi.org/10.1016/j.gloplacha.2010.10.008>
- Llovel, W., B. Meyssignac, and A. Cazenave, 2011: Steric sea level variations over 2004-2010 as a function of region and depth: Inference on the mass component variability in the North Atlantic Ocean. *Geophysical Research Letters*, **38**, L15608, <http://dx.doi.org/10.1029/2011GL047411>
- Lloyd, I. D. and G. A. Vecchi, 2011: Observational Evidence for Oceanic Controls on Hurricane Intensity. *Journal of Climate*, **24**, 1138-1153, <http://dx.doi.org/10.1175/2010JCLI3763.1>
- Lozier, M. S., A. C. Dave, J. B. Palter, L. M. Gerber, and R. T. Barber, 2011: On the relationship between stratification and primary productivity in the North Atlantic. *Geophysical Research Letters*, **38**, L18609, <http://dx.doi.org/10.1029/2011GL049414>
- Mahajan, S., R. Zhang, T. L. Delworth, S. Zhang, A. J. Rosati, and Y.-S. Chang, 2011: Predicting Atlantic meridional overturning circulation (AMOC) variations using subsurface and surface fingerprints. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 1895-1903, <http://dx.doi.org/10.1016/j.dsr2.2010.10.067>
- Marcos, M., F. M. Calafat, W. Llovel, D. Gomis, and B. Meyssignac, 2011: Regional distribution of steric and mass contributions to sea level changes. *Global and*

- Planetary Change*, **76**, 206-218, <http://dx.doi.org/10.1016/j.dsr2.2010.10.067>
- Martinez, E., D. Antoine, F. D'Ortenzio, and C. de Boyer Montégut, 2011: Phytoplankton spring and fall blooms in the North Atlantic in the 1980s and 2000s. *Journal of Geophysical Research: Oceans*, **116**, C11029, <http://dx.doi.org/10.1029/2010JC006836>
- Masina, S., P. Di Pietro, A. Storto, and A. Navarra, 2011: Global ocean re-analyses for climate applications. *Dynamics of Atmospheres and Oceans*, **52**, 341-366, <http://dx.doi.org/10.1016/j.dynatmoce.2011.03.006>
- Matthews, D., B. Powell, and R. Milliff, 2011: Dominant spatial variability scales from observations around the Hawaiian Islands. *Deep Sea Research Part I: Oceanographic Research Papers*, **58**, 979-987, <http://dx.doi.org/10.1016/j.dsr.2011.07.004>
- Mauritzen, C., E. Hansen, M. Andersson, B. Berx, A. Beszczynska-Moller, I. Burud, K. H. Christensen, J. Debernard, L. de Steur, P. Dodd, S. Gerland, O. Godoy, B. Hansen, S. Hudson, F. Hoydalsvik, R. Ingvaldsen, P. E. Isachsen, Y. Kasajima, I. Koszalka, K. M. Kovacs, M. Koltzow, J. LaCasce, C. M. Lee, T. Lavergne, C. Lydersen, M. Nicolaus, F. Nilsen, O. A. Nost, K. A. Orvik, M. Reigstad, H. Schyberg, L. Seuthe, O. Skagseth, J. Skardhamar, R. Skogseth, A. Sperrevik, C. Svensen, H. Soiland, S. H. Teigen, V. Tverberg, and C. W. Riser, 2011: Closing the loop - Approaches to monitoring the state of the Arctic Mediterranean during the International Polar Year 2007-2008. *Progress in Oceanography*, **90**, 62-89, <http://dx.doi.org/10.1016/j.pocean.2011.02.010>
- Maze, G. and J. Marshall, 2011: Diagnosing the Observed Seasonal Cycle of Atlantic Subtropical Mode Water Using Potential Vorticity and Its Attendant Theorems. *Journal of Physical Oceanography*, **41**, 1986-1999, <http://dx.doi.org/10.1175/2011JPO4576.1>
- McCarthy, G. D., E. McDonagh, and B. King, 2011: Decadal Variability of Thermocline and Intermediate Waters at 24 degrees S in the South Atlantic. *Journal of Physical Oceanography*, **41**, 157-165, <http://dx.doi.org/10.1175/2010JPO4467.1>
- McPhaden, M. J., T. Lee, and D. McClurg, 2011: El Nino and its relationship to changing background conditions in the tropical Pacific Ocean. *Geophysical Research Letters*, **38**, L15709, <http://dx.doi.org/10.1029/2011GL048275>
- Mehta, V., G. Meehl, L. Goddard, J. Knight, A. Kumar, M. Latif, T. Lee, A. Rosati, and D. Stammer, 2011: Decadal Climate Predictability and Prediction: Where Are We? *Bulletin of the American Meteorological Society*, **92**, 637-640, <http://dx.doi.org/10.1175/2010BAMS3025.1>
- Meijers, A. J. S., N. L. Bindoff, and S. R. Rintoul, 2011: Estimating the Four-Dimensional Structure of the Southern Ocean Using Satellite Altimetry. *Journal of Atmospheric and Oceanic Technology*, **28**, 548-568, <http://dx.doi.org/10.1175/2010JTECHO790.1>
- Meijers, A. J. S., N. L. Bindoff, and S. R. Rintoul, 2011: Frontal movements and property fluxes: Contributions to heat and freshwater trends in the Southern Ocean. *J. Geophys. Res.*, **116**, C08024, <http://dx.doi.org/10.1029/2010JC006832>
- Mongin, M., R. Matear, and M. Chamberlain, 2011: Seasonal and spatial variability of remotely sensed chlorophyll and physical fields in the SAZ-Sense region. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 2082-2093,

- <http://dx.doi.org/10.1016/j.dsr2.2011.06.002>
- Moore, A. M., H. G. Arango, G. Broquet, C. Edwards, M. Veneziani, B. Powell, D. Foley, J. D. Doyle, D. Costa, and P. Robinson, 2011: The Regional Ocean Modeling System (ROMS) 4-dimensional variational data assimilation systems: Part III - Observation impact and observation sensitivity in the California Current System. *Progress in Oceanography*, **91**, 74-94, <http://dx.doi.org/10.1016/j.pocean.2011.05.005>
- Moore, A. M., H. G. Arango, G. Broquet, C. Edwards, M. Veneziani, B. Powell, D. Foley, J. D. Doyle, D. Costa, and P. Robinson, 2011: The Regional Ocean Modeling System (ROMS) 4-dimensional variational data assimilation systems: Part II - Performance and application to the California Current System. *Progress in Oceanography*, **91**, 50-73, <http://dx.doi.org/10.1016/j.pocean.2011.05.003>
- Moore, A. M., A. Schiller, and G. B. Brassington, 2011: Adjoint Data Assimilation Methods. *Operational Oceanography in the 21st Century*, A. Schiller and G. Brassington, Eds., Springer Netherlands, 351-379, http://dx.doi.org/10.1007/978-94-007-0332-2_14.
- Nam, S., D.-j. Kim, and W. Moon, 2011: Observed impact of mesoscale circulation on oceanic response to Typhoon Man-Yi (2007). *Ocean Dynamics*, **62**, 1-12, <http://dx.doi.org/10.1007/s10236-011-0490-8>
- Nilsson, J. A. U., S. Dobricic, N. Pinardi, V. Taillandier, and P.-M. Poulain, 2011: On the assessment of Argo float trajectory assimilation in the Mediterranean Forecasting System. *Ocean Dynamics*, **61**, 1475-1490, <http://dx.doi.org/10.1007/s10236-011-0437-0>
- Nost, O. A., M. Biuw, V. Tverberg, C. Lydersen, T. Hattermann, Q. Zhou, L. H. Smedsrud, and K. M. Kovacs, 2011: Eddy overturning of the Antarctic Slope Front controls glacial melting in the Eastern Weddell Sea. *J. Geophys. Res.*, **116**, C11014, <http://dx.doi.org/10.1029/2011JC006965>
- Nudds, S. H. and J. A. Shore, 2011: Simulated eddy induced vertical velocities in a Gulf of Alaska model. *Deep Sea Research Part I: Oceanographic Research Papers*, **58**, 1060-1068, <http://dx.doi.org/10.1016/j.dsr.2011.08.010>
- Nuncio, M., A. J. Luis, and X. Yuan, 2011: Topographic meandering of Antarctic Circumpolar Current and Antarctic Circumpolar Wave in the ice-ocean-atmosphere system. *Geophysical Research Letters*, **38**, L13708, <http://dx.doi.org/10.1029/2011GL046898>
- Oka, E., S. Kouketsu, K. Toyama, K. Uehara, T. Kobayashi, S. Hosoda, and T. Suga, 2011: Formation and Subduction of Central Mode Water Based on Profiling Float Data, 2003-08. *Journal of Physical Oceanography*, **41**, 113-129, <http://dx.doi.org/10.1175/2010JPO4419.1>
- Oka, E., T. Suga, C. Sukigara, K. Toyama, K. Shimada, and J. Yoshida, 2011: "Eddy Resolving" Observation of the North Pacific Subtropical Mode Water. *Journal of Physical Oceanography*, **41**, 666-681, <http://dx.doi.org/10.1175/2011JPO4501.1>
- O'Kane, T. J., P. R. Oke, and P. A. Sandery, 2011: Predicting the East Australian Current. *Ocean Modelling*, **38**, 251-266, <http://dx.doi.org/10.1016/j.ocemod.2011.04.003>
- Oke, P. R. and D. A. Griffin, 2011: The cold-core eddy and strong upwelling off the coast of New South Wales in early 2007. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 574-591, <http://dx.doi.org/10.1016/j.dsr2.2010.06.006>
- Oke, P. R. and T. J. O'Kane, 2011: Observing System Design and Assessment. *Operational*

- Oceanography in the 21st Century*, A. Schiller and G. Brassington, Eds., Springer Netherlands, 123-151, http://dx.doi.org/10.1007/978-94-007-0332-2_5.
- Palmer, M. D. and P. Brohan, 2011: Estimating sampling uncertainty in fixed-depth and fixed-isotherm estimates of ocean warming. *International Journal of Climatology*, **31**, 980-986, <http://dx.doi.org/10.1002/joc.2224>
- Pan, A. J. and X. F. Wan, 2011: Interannual variability of the Kuroshio Extension and its impacts on the formation locality of the North Pacific Central Mode Water. A *Collection of Argo research papers*, Ocean Press,
- Panteleev, G., M. Yaremchuk, P. J. Stabeno, V. Luchin, D. A. Nechaev, and T. Kikuchi, 2011: Dynamic topography of the Bering Sea. *Journal of Geophysical Research-Oceans*, **116**, C05017, <http://dx.doi.org/10.1029/2010JC006354>
- Park, J. J., Y.-O. Kwon, and J. F. Price, 2011: Argo array observation of ocean heat content changes induced by tropical cyclones in the north Pacific. *J. Geophys. Res.*, **116**, C12025, <http://dx.doi.org/10.1029/2011JC007165>
- Passaro, M. and F. Seitz, 2011: Steric sea level variations in the central-eastern Mediterranean Sea from Argo observations. *Bollettino di Geofisica Teorica ed Applicata*, **52**, 131-147, http://www3.ogs.trieste.it/bgta/provavpage.php?id_articolo=505
- Perivoliotis, L., G. Krokos, K. Nittis, and G. Korres, 2011: The Aegean sea marine security decision support system. *Ocean Science*, **7**, 671-683, <http://dx.doi.org/10.5194/os-7-671-2011>
- Piecuch, C. G. and R. M. Ponte, 2011: Mechanisms of interannual steric sea level variability. *Geophysical Research Letters*, **38**, L15605, <http://dx.doi.org/10.1029/2011GL048440>
- Podymov, O., E. Yakushev, and A. Kostyleva, 2011: On Interannual Variability of Chemical Characteristics of Redox Layer and Cold Intermediate Layer of the Black Sea. *The Handbook of Environmental Chemistry*, Springer Berlin / Heidelberg, 1-15, http://dx.doi.org/10.1007/698_2011_122.
- Qiu, B. and S. Chen, 2011: Effect of Decadal Kuroshio Extension Jet and Eddy Variability on the Modification of North Pacific Intermediate Water. *Journal of Physical Oceanography*, **41**, 503-515, <http://dx.doi.org/10.1175/2010JPO4575.1>
- Quinn, K. J. and R. M. Ponte, 2011: Estimating high frequency ocean bottom pressure variability. *Geophysical Research Letters*, **38**, L08611, <http://dx.doi.org/10.1029/2010GL046537>
- Rabe, B., M. Karcher, U. Schauer, J. M. Toole, R. A. Krishfield, S. Pisarev, F. Kauker, R. Gerdes, and T. Kikuchi, 2011: An assessment of Arctic Ocean freshwater content changes from the 1990s to the 2006-2008 period. *Deep Sea Research Part I: Oceanographic Research Papers*, **58**, 173-185, <http://dx.doi.org/10.1016/j.dsr.2010.12.002>
- Ravichandran, M., 2011: In-Situ Ocean Observing System. *Operational Oceanography in the 21st Century*, A. Schiller and G. Brassington, Eds., Springer Netherlands, 55-90, http://dx.doi.org/10.1007/978-94-007-0332-2_3.
- Ren, L., K. Speer, and E. P. Chassignet, 2011: The mixed layer salinity budget and sea ice in the Southern Ocean. *J. Geophys. Res.*, **116**, C08031, <http://dx.doi.org/10.1029/2010JC006634>
- Rhein, M., D. Kieke, S. Huttel-Kabus, A. Roessler, C. Mertens, R. Meissner, B. Klein, C. W.

- Boning, and I. Yashayaev, 2011: Deep water formation, the subpolar gyre, and the meridional overturning circulation in the subpolar North Atlantic. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 1819-1832, <http://dx.doi.org/10.1016/j.dsr2.2010.10.061>
- Rio, M. H., S. Guinehut, and G. Larnicol, 2011: New CNES-CLS09 global mean dynamic topography computed from the combination of GRACE data, altimetry, and in situ measurements. *Journal of Geophysical Research-Oceans*, **116**, C07018, <http://dx.doi.org/10.1029/2010JC006505>
- Rivas, D. and R. M. Samelson, 2011: A Numerical Modeling Study of the Upwelling Source Waters along the Oregon Coast during 2005. *Journal of Physical Oceanography*, **41**, 88-112, <http://dx.doi.org/10.1175/2010JPO4327.1>
- Rixen, T., P. Ramachandran, L. Lehnhoff, D. Dasbach, B. Gaye, B. Urban, R. Ramachandran, and V. Ittekkot, 2011: Impact of monsoon-driven surface ocean processes on a coral off Port Blair on the Andaman Islands and their link to North Atlantic climate variations. *Global and Planetary Change*, **75**, 1-13, <http://dx.doi.org/10.1016/j.gloplacha.2010.09.005>
- Roemmich, D. and J. Gilson, 2011: The global ocean imprint of ENSO. *Geophysical Research Letters*, **38**, L13606, <http://dx.doi.org/10.1029/2011GL047992>
- Roughan, M., H. S. Macdonald, M. E. Baird, and T. M. Glasby, 2011: Modelling coastal connectivity in a Western Boundary Current: Seasonal and inter-annual variability. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 628-644, <http://dx.doi.org/10.1016/j.dsr2.2010.06.004>
- Ruescas, A. B., M. Arbelo, J. A. Sobrino, and C. Mattar, 2011: Examining the Effects of Dust Aerosols on Satellite Sea Surface Temperatures in the Mediterranean Sea Using the Medspiration Matchup Database. *Journal of Atmospheric and Oceanic Technology*, **28**, 684-697, <http://dx.doi.org/10.1175/2010JTECHA1450.1>
- Ruhl, H. A., M. Andre, L. Beranzoli, M. N. Cagatay, A. Colaco, M. Cannat, J. J. Danobeitia, P. Favali, L. Geli, M. Gillooly, J. Greinert, P. O. J. Hall, R. Huber, J. Karstensen, R. S. Lampitt, K. E. Larkin, V. Lykousis, J. Mienert, J. Miguel Miranda, R. Person, I. G. Priede, I. Puillat, L. Thomsen, and C. Waldmann, 2011: Societal need for improved understanding of climate change, anthropogenic impacts, and geo-hazard warning drive development of ocean observatories in European Seas. *Progress in Oceanography*, **91**, 1-33, <http://dx.doi.org/10.1016/j.pocean.2011.05.001>
- Saito, H., T. Suga, K. Hanawa, and N. Shikama, 2011: The Transition Region Mode Water of the North Pacific and Its Rapid Modification. *Journal of Physical Oceanography*, **41**, 1639-1658, <http://dx.doi.org/10.1175/2011JPO4346.1>
- Salisbury, J., D. Vandemark, J. Campbell, C. Hunt, D. Wisser, N. Reul, and B. Chapron, 2011: Spatial and temporal coherence between Amazon River discharge, salinity, and light absorption by colored organic carbon in western tropical Atlantic surface waters. *J. Geophys. Res.*, **116**, C00H02, <http://dx.doi.org/10.1029/2011JC006989>
- Sallee, J. B. and S. R. Rintoul, 2011: Parameterization of eddy-induced subduction in the Southern Ocean surface-layer. *Ocean Modelling*, **39**, 146-153, <http://dx.doi.org/10.1016/j.ocemod.2011.04.001>
- Sandery, P. A., G. B. Brassington, and J. Freeman, 2011: Adaptive nonlinear dynamical

- initialization. *Journal of Geophysical Research-Oceans*, **116**, C01021, <http://dx.doi.org/10.1029/2010JC006260>
- Sasaki, Y. N. and N. Schneider, 2011: Decadal Shifts of the Kuroshio Extension Jet: Application of Thin-Jet Theory. *Journal of Physical Oceanography*, **41**, 979-993, <http://dx.doi.org/10.1175/2011JPO4550.1>
- Schiller, A., 2011: Ocean circulation on the North Australian Shelf. *Continental Shelf Research*, **31**, 1087-1095, <http://dx.doi.org/10.1016/j.csr.2011.03.013>
- Scott, R. B., J. A. Goff, A. C. Naveira Garabato, and A. J. G. Nurser, 2011: Global rate and spectral characteristics of internal gravity wave generation by geostrophic flow over topography. *J. Geophys. Res.*, **116**, C09029, <http://dx.doi.org/10.1029/2011JC007005>
- Seale, A., P. Christoffersen, R. I. Mugford, and M. O'Leary, 2011: Ocean forcing of the Greenland Ice Sheet: Calving fronts and patterns of retreat identified by automatic satellite monitoring of eastern outlet glaciers. *J. Geophys. Res.*, **116**, F03013, <http://dx.doi.org/10.1029/2010JF001847>
- Shen, M.-L., Y.-H. Tseng, and S. Jan, 2011: The formation and dynamics of the cold-dome off northeastern Taiwan. *Journal of Marine Systems*, **86**, 10-27, <http://dx.doi.org/10.1016/j.jmarsys.2011.01.002>
- Shi, W. and M. Wang, 2011: Satellite observations of asymmetrical physical and biological responses to Hurricane Earl. *Geophysical Research Letters*, **38**, L04607, <http://dx.doi.org/10.1029/2010GL046574>
- Shu, Q., F. Qiao, Z. Song, C. Xia, and Y. Yang, 2011: Improvement of MOM4 by including surface wave-induced vertical mixing. *Ocean Modelling*, **40**, 42-51, <http://dx.doi.org/10.1016/j.ocemod.2011.07.005>
- Siegismund, F., V. Romanova, A. Kohl, and D. Stammer, 2011: Ocean bottom pressure variations estimated from gravity, nonsteric sea surface height and hydrodynamic model simulations. *J. Geophys. Res.*, **116**, C07021, <http://dx.doi.org/10.1029/2010JC006727>
- Simav, M., H. Yildiz, A. Turkezer, O. Lenk, and E. Ozsoy, 2011: Sea level variability at Antalya and Menteş tide gauges in Turkey: atmospheric, steric and land motion contributions. *Studia Geophysica et Geodaetica*, **56**, 215-230, <http://dx.doi.org/10.1007/s11200-010-0067-x>
- Singh, A. and T. Delcroix, 2011: Estimating the effects of ENSO upon the observed freshening trends of the western tropical Pacific Ocean. *Geophysical Research Letters*, **38**, L21607, <http://dx.doi.org/10.1029/2011GL049636>
- Singh, A., T. Delcroix, and S. Cravatte, 2011: Contrasting the flavors of El Nino-Southern Oscillation using sea surface salinity observations. *J. Geophys. Res.*, **116**, C06016, <http://dx.doi.org/10.1029/2010JC006862>
- Song, J., H. Xue, X. Bao, D. Wu, F. Chai, L. Shi, Z. Yao, Y. Wang, F. Nan, and K. Wan, 2011: A spectral mixture model analysis of the Kuroshio variability and the water exchange between the Kuroshio and the East China Sea. *Chinese Journal of Oceanology and Limnology*, **29**, 446-459, <http://dx.doi.org/10.1007/s00343-011-0114-7>
- Souza, J. M. A. C., C. de Boyer Montegut, C. Cabanes, and P. Klein, 2011: Estimation of the Agulhas ring impacts on meridional heat fluxes and transport using ARGO floats and satellite data. *Geophysical Research Letters*, **38**, L21602,

- <http://dx.doi.org/10.1029/2011GL049359>
- Stockdale, T., D. Anderson, M. Balmaseda, F. Doblas-Reyes, L. Ferranti, K. Mogensen, T. Palmer, F. Molteni, and F. Vitart, 2011: ECMWF seasonal forecast system 3 and its prediction of sea surface temperature. *Climate Dynamics*, **37**, 455-471, <http://dx.doi.org/10.1007/s00382-010-0947-3>
- Storto, A., S. Dobricic, S. Masina, and P. Di Pietro, 2011: Assimilating Along-Track Altimetric Observations through Local Hydrostatic Adjustment in a Global Ocean Variational Assimilation System. *Monthly Weather Review*, **139**, 738-754, <http://dx.doi.org/10.1175/2010MWR3350.1>
- Strutton, P. G., T. R. Martz, M. D. DeGrandpre, W. R. McGillis, W. M. Drennan, and E. Boss, 2011: Bio-optical observations of the 2004 Labrador Sea phytoplankton bloom. *J. Geophys. Res.*, **116**, C11037, <http://dx.doi.org/10.1029/2010JC006872>
- Subrahmanyam, B., V. S. N. Murty, and D. M. Heffner, 2011: Sea surface salinity variability in the tropical Indian Ocean. *Remote Sensing of Environment*, **115**, 944-956, <http://dx.doi.org/10.1016/j.rse.2010.12.004>
- Sukigara, C., T. Suga, T. Saino, K. Toyama, D. Yanagimoto, K. Hanawa, and N. Shikama, 2011: Biogeochemical evidence of large diapycnal diffusivity associated with the subtropical mode water of the North Pacific. *Journal of Oceanography*, **67**, 77-85, <http://dx.doi.org/10.1007/s10872-011-0008-5>
- Sun, L., Y. J. Yang, T. Xian, and Y. F. Fu, 2011: The ocean response to typhoon Namtheun explored by Argo floats. *A Collection of Argo research papers*, Ocean Press, 126-139,
- Sutton, P. J. H. and D. Roemmich, 2011: Decadal steric and sea surface height changes in the Southern Hemisphere. *Geophysical Research Letters*, **38**, L08604, <http://dx.doi.org/10.1029/2011GL046802>
- Sydeman, W. J., S. A. Thompson, J. C. Field, W. T. Peterson, R. W. Tanasichuk, H. J. Freeland, S. J. Bograd, and R. R. Rykaczewski, 2011: Does positioning of the North Pacific Current affect downstream ecosystem productivity? *Geophysical Research Letters*, **38**, L12606, <http://dx.doi.org/10.1029/2011GL047212>
- Tang, Q. and C. Zheng, 2011: Thermohaline structures across the Luzon Strait from seismic reflection data. *Dynamics of Atmospheres and Oceans*, **51**, 94-108, <http://dx.doi.org/10.1016/j.dynatmoce.2011.02.001>
- Tarakanov, R., 2011: Southern Jets of the Antarctic Circumpolar Current in the Eastern Pacific Antarctic. *Oceanology*, **51**, 588-598, <http://dx.doi.org/10.1134/S0001437011040175>
- Taws, S. L., R. Marsh, N. C. Wells, and J. Hirschi, 2011: Re-emerging ocean temperature anomalies in late-2010 associated with a repeat negative NAO. *Geophysical Research Letters*, **38**, L20601, <http://dx.doi.org/10.1029/2011GL048978>
- Thomalla, S. J., N. Fauchereau, S. Swart, and P. M. S. Monteiro, 2011: Regional scale characteristics of the seasonal cycle of chlorophyll in the Southern Ocean. *Biogeosciences*, **8**, 2849-2866, <http://dx.doi.org/10.5194/bg-8-2849-2011>
- Thoppil, P. G., J. G. Richman, and P. J. Hogan, 2011: Energetics of a global ocean circulation model compared to observations. *Geophysical Research Letters*, **38**, L15607, <http://dx.doi.org/10.1029/2011GL048347>
- Todd, R. E., D. L. Rudnick, M. R. Mazloff, R. E. Davis, and B. D. Cornuelle, 2011: Poleward flows in the southern California Current System: Glider observations and numerical

- simulation. *J. Geophys. Res.*, **116**, C02026, <http://dx.doi.org/10.1029/2010JC006536>
- Tomita, H., S. Kouketsu, E. Oka, and M. Kubota, 2011: Locally enhanced wintertime air-sea interaction and deep oceanic mixed layer formation associated with the subarctic front in the North Pacific. *Geophysical Research Letters*, **38**, L24607, <http://dx.doi.org/10.1029/2011GL049902>
- Toyama, K. and T. Suga, 2011: Roles of mode waters in the formation and maintenance of central water in the North Pacific. *Journal of Oceanography*, **68**, 79-92, <http://dx.doi.org/10.1007/s10872-011-0040-5>
- Tulloch, R., J. Marshall, C. Hill, and K. S. Smith, 2011: Scales, Growth Rates, and Spectral Fluxes of Baroclinic Instability in the Ocean. *Journal of Physical Oceanography*, **41**, 1057-1076, <http://dx.doi.org/10.1175/2011JPO4404.1>
- Valsala, V., S. Maksyutov, and R. Murtugudde, 2011: Interannual to Interdecadal Variabilities of the Indonesian Throughflow Source Water Pathways in the Pacific Ocean. *Journal of Physical Oceanography*, **41**, 1921-1940, <http://dx.doi.org/10.1175/2011JPO4561.1>
- van Aken, H. M., M. Femke de Jong, and I. Yashayaev, 2011: Decadal and multi-decadal variability of Labrador Sea Water in the north-western North Atlantic Ocean derived from tracer distributions: Heat budget, ventilation, and advection. *Deep Sea Research Part I: Oceanographic Research Papers*, **58**, 505-523, <http://dx.doi.org/10.1016/j.dsr.2011.02.008>
- van Sebille, E., I. Kamenkovich, and J. K. Willis, 2011: Quasi-zonal jets in 3-D Argo data of the northeast Atlantic. *Geophysical Research Letters*, **38**, <http://dx.doi.org/10.1029/2010gl046267>
- von Schuckmann, K. and P. Y. Le Traon, 2011: How well can we derive Global Ocean Indicators from Argo data? *Ocean Science*, **7**, 783-791, <http://dx.doi.org/10.5194/os-7-783-2011>
- Wade, M., G. Caniaux, and Y. du Penhoat, 2011: Variability of the mixed layer heat budget in the eastern equatorial Atlantic during 2005-2007 as inferred using Argo floats. *Journal of Geophysical Research-Oceans*, **116**, C08006, <http://dx.doi.org/10.1029/2010JC006683>
- Wang, X., G. Han, Y. Qi, and W. Li, 2011: Impact of barrier layer on typhoon-induced sea surface cooling. *Dynamics of Atmospheres and Oceans*, **52**, 367-385, <http://dx.doi.org/10.1016/j.dynatmoce.2011.05.002>
- Wang, X. D., G. J. Han, P. C. Chu, and W. Li, 2011: Formation and variability of barrier layer during typhoon passage. *A Collection of Argo research papers*, Ocean Press, 140-151,
- Williams, A., F. Althaus, M. R. Clark, and K. Gowlett-Holmes, 2011: Composition and distribution of deep-sea benthic invertebrate megafauna on the Lord Howe Rise and Norfolk Ridge, southwest Pacific Ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 948-958, <http://dx.doi.org/10.1016/j.dsr2.2010.10.050>
- Williams, G. D., A. J. S. Meijers, A. Poole, P. Mathiot, T. Tamura, and A. Klocker, 2011: Late winter oceanography off the Sabrina and BANZARE coast (117-128 degrees E), East Antarctica. *Deep Sea Research Part II: Topical Studies in Oceanography*, **58**, 1194-1210, <http://dx.doi.org/10.1016/j.dsr2.2010.10.035>
- Wilson, C., 2011: Chlorophyll anomalies along the critical latitude at 30N in the NE Pacific. *Geophysical Research Letters*, **38**, L15603, <http://dx.doi.org/10.1029/2011GL048210>

- Wong, A. P. S. and S. C. Riser, 2011: Profiling Float Observations of the Upper Ocean Under Sea Ice off the Wilkes Land Coast of Antarctica. *Journal of Physical Oceanography*, **41**, 1102-1115, <http://dx.doi.org/10.1175/2011JPO4516.1>
- Wu, L., Z. Jing, S. Riser, and M. Visbeck, 2011: Seasonal and spatial variations of Southern Ocean diapycnal mixing from Argo profiling floats. *Nature Geoscience*, **4**, 363-366, <http://dx.doi.org/10.1038/ngeo1156>
- Wu, X. F., J. P. Xu, Q. L. Zhang, and Z.-H. Liu, 2011: A preliminary study on the upper ocean heat content of the tropical western Pacific. *A Collection of Argo research papers*, Ocean Press, 152-165,
- Wu, X. F., J. P. Xu, Q. L. Zhang, and Z.-H. Liu, 2011: A Preliminary Study on Upper Ocean Heat Content of Tropical Western Pacific. *Marine Forecast* **28**, 76-85,
- Wu, X. F., J. P. Xu, Q. L. Zhang, and Z.-H. Liu, 2011: Analysis of the Upper Ocean Heat Content over Tropical Western Pacific. *Journal of Tropical Oceanography*, **30**, 37-46, <http://www.jto.ac.cn/EN/Y2011/V30/I6/37>
- Wu, X. F., J. P. Xu, Q. L. Zhang, and Z. H. Sun, 2011: A preliminary study on upper ocean heat content of tropical Western Pacific. *Marine Forecasts*, **4**, http://en.cnki.com.cn/Article_en/CJFDTOTAL-HYYB201104013.htm
- Xie, J. P., F. Counillion, J. Zhu, and L. Bertino, 2011: An eddy resolving tidal-driven model of the South China Sea assimilating along-track SLA data using the EnOI. *Ocean Science*, **7**, 609-627, <http://dx.doi.org/10.5194/os-7-609-2011>
- Xie, L., J. Tian, S. Zhang, Y. Zhang, and Q. Yang, 2011: An anticyclonic eddy in the intermediate layer of the Luzon Strait in Autumn 2005. *Journal of Oceanography*, **67**, 37-46, <http://dx.doi.org/10.1007/s10872-011-0004-9>
- Xing, X., A. Morel, H. Claustre, D. Antoine, F. D'Ortenzio, A. Poteau, A. Mignot, Z. Lee, S. Shang, and C. Hu, 2011: Combined processing and mutual interpretation of radiometry and fluorimetry from autonomous profiling Bio Argo floats: Chlorophyll a retrieval. *J. Geophys. Res.*, **116**, C06020, <http://dx.doi.org/10.1029/2010JC006899>
- Yearsley, J. M. and J. D. Sigwart, 2011: Larval Transport Modeling of Deep-Sea Invertebrates Can Aid the Search for Undiscovered Populations. *PLoS ONE*, **6**, e23063, <http://dx.doi.org/10.1371/journal.pone.0023063>
- Yin, X., F. Qiao, and Q. Shu, 2011: Using ensemble adjustment Kalman filter to assimilate Argo profiles in a global OGCM. *Ocean Dynamics*, **61**, 1017-1031, <http://dx.doi.org/10.1007/s10236-011-0419-2>
- Yin, Y., O. Alves, and P. R. Oke, 2011: An Ensemble Ocean Data Assimilation System for Seasonal Prediction. *Monthly Weather Review*, **139**, 786-808, <http://dx.doi.org/10.1175/2010MWR3419.1>
- Yu, L. and M. J. McPhaden, 2011: Ocean Preconditioning of Cyclone Nargis in the Bay of Bengal: Interaction between Rossby Waves, Surface Fresh Waters, and Sea Surface Temperatures. *Journal of Physical Oceanography*, **41**, 1741-1755, <http://dx.doi.org/10.1175/2011JPO4437.1>
- Yu, T., G. J. Han, and W. Li, 2011: The thermohaline structure of Southern Ocean eddies: a case study using Argo floats. *A Collection of Argo research papers*, Ocean Press, 166-175,
- Zalesny, V. B., N. B. Zakharova, and A. V. Gusev, 2011: Four-dimensional problem of

- variational initialization of hydrophysical fields of the World Ocean. *Russian Journal of Numerical Analysis and Mathematical Modelling*, **26**, 209-229, <http://dx.doi.org/10.1515/RJNAMM.2011.012>
- Zhang, Q. L., H. W. Liu, H. Zhou, and D. M. Zheng, 2011: Variation features of the Mindanao Eddy from Argo data. *A Collection of Argo research papers*, Ocean Press, 176-189,
- Zhang, X., B. Cornuelle, and D. Roemmich, 2011: Adjoint Sensitivity of the Nino-3 Surface Temperature to Wind Forcing. *Journal of Climate*, **24**, 4480-4493, <http://dx.doi.org/10.1175/2011JCLI3917.1>
- Zhang, X. F., G. J. Han, W. Li, X. R. Wu, and T. Yu, 2011: Evaluation of the effect of Argo data assimilation on the oceanic reanalysis in the Pacific Ocean. *A Collection of Argo research papers*, Ocean Press, 190-199,
- Zheng, Y., T. Shinoda, J.-L. Lin, and G. N. Kiladis, 2011: Sea Surface Temperature Biases under the Stratus Cloud Deck in the Southeast Pacific Ocean in 19 IPCC AR4 Coupled General Circulation Models. *Journal of Climate*, **24**, 4139-4164, <http://dx.doi.org/10.1175/2011JCLI4172.1>
- Zhu, J., 2011: Overview of Regional and Coastal Systems. *Operational Oceanography in the 21st Century*, A. Schiller and G. Brassington, Eds., Springer Netherlands, 413-439, http://dx.doi.org/10.1007/978-94-007-0332-2_17.
- Zhu, J., B. Huang, and M. Balmaseda, 2011: An ensemble estimation of the variability of upper-ocean heat content over the tropical Atlantic Ocean with multi-ocean reanalysis products. *Climate Dynamics*, **39**, 1001-1020, <http://dx.doi.org/10.1007/s00382-011-1189-8>
- Zhu, J. and J. C. Kang, 2011: Relationship between Sea Temperature Change and Tropical Cyclones Based on Argo. *Advanced Building Materials, Pts 1-4*, **250-253**, 2782-2786, <http://dx.doi.org/10.4028/www.scientific.net/AMR.250-253.2782>

2010 (227)

- Abernathey, R., J. Marshall, M. Mazloff, and E. Shuckburgh, 2010: Enhancement of Mesoscale Eddy Stirring at Steering Levels in the Southern Ocean. *Journal of Physical Oceanography*, **40**, 170-184, <http://dx.doi.org/10.1175%2F2009JPO4201.1>
- Agoshkov, V. I., V. M. Ipatova, V. B. Zalesnyi, E. I. Parmuzin, and V. P. Shutyaev, 2010: Problems of variational assimilation of observational data for ocean general circulation models and methods for their solution. *Izvestiya Atmospheric and Oceanic Physics*, **46**, 677-712, <http://dx.doi.org/10.1134/s0001433810060034>
- Alessandri, A., A. Borrelli, S. Masina, A. Cherchi, S. Gualdi, A. Navarra, P. Di Pietro, and A. F. Carril, 2010: The INGV-CMCC Seasonal Prediction System: Improved Ocean Initial Conditions. *Monthly Weather Review*, **138**, 2930-2952, <http://dx.doi.org/10.1175/2010MWR3178.1>
- Annoni, A., M. Craglia, A. Roo, and J. San-Miguel, 2010: Earth Observations and Dynamic Mapping: Key Assets for Risk Management. *Geographic Information and Cartography for Risk and Crisis Management*, 3-21, http://dx.doi.org/10.1007/978-3-642-03442-8_1.
- Aoki, S., Y. Sasai, H. Sasaki, H. Mitsudera, and G. Williams, 2010: The cyclonic circulation in

- the Australian-Antarctic basin simulated by an eddy-resolving general circulation model. *Ocean Dynamics*, **60**, 743-757, <http://dx.doi.org/10.1007/s10236-009-0261-y>
- Ascani, F., E. Firing, P. Dutrieux, J. P. McCreary, and A. Ishida, 2010: Deep Equatorial Ocean Circulation Induced by a Forced-Dissipated Yanai Beam. *Journal of Physical Oceanography*, **40**, 1118-1142, <http://dx.doi.org/10.1175/2010JPO4356.1>
- Baehr, J., 2010: Influence of the 26 degrees N RAPID-MOCHA Array and Florida Current Cable Observations on the ECCO-GODAE State Estimate. *Journal of Physical Oceanography*, **40**, 865-879, <http://dx.doi.org/10.1175/2009jpo4118.1>
- Balmaseda, M. and co-authors, 2010: Initialization for Seasonal and Decadal Forecasts. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.02>.
- Balmaseda, M., Y. Fujii, O. Alves, T. Lee, M. Rienecker, A. Rosati, D. Stammer, Y. Xue, H. J. Freeland, M. J. McPhaden, L. Goddard, and C. Coelho, 2010: Role of the Ocean Observing System in an End-to-End Seasonal Forecasting System. *In Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, Venice, Italy, J. Hall, D. E. Harrison, and D. Stammer, ESA Publication, WPP-306, <http://dx.doi.org/10.5270/OceanObs09.pp.03>
- Becker, M., W. Llovel, A. Cazenave, A. Guntner, and J.-F. Cretaux, 2010: Recent hydrological behavior of the East African great lakes region inferred from GRACE, satellite altimetry and rainfall observations. *Comptes Rendus Geoscience*, **342**, 223-233, <https://doi.org/10.1016/j.crte.2009.12.010>
- Belbeoch, M. and co-authors, 2010: The JCOMM In Situ Observing Platform Support Centre: A Decade of Progress and Remaining Challenges. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.04>.
- Belmadani, A., B. Dewitte, and S.-I. An, 2010: ENSO Feedbacks and Associated Time Scales of Variability in a Multimodel Ensemble. *Journal of Climate*, **23**, 3181-3204, <http://dx.doi.org/10.1175/2010JCLI2830.1>
- Bhaskar, T. V. S. U., D. Swain, and M. Ravichandran, 2010: Sonic Layer Depth variability in the Arabian Sea. *International Journal of Oceans and Oceanography*, **4**, 17-28,
- Bhaskaran, P. K., R. R. Kumar, R. Barman, and R. Muthalagu, 2010: A new approach for deriving temperature and salinity fields in the Indian Ocean using artificial neural networks. *Journal of Marine Science and Technology*, **15**, 160-175, <http://dx.doi.org/10.1007/s00773-009-0081-2>
- Bindoff, N. L., D. Stammer, P. Y. Le Traon, K. Trenberth, C. Mauritzen, J. A. Church, N. Smith, T. Malone, T. Suga, J. Tintoré, and S. Wilson, 2010: Capabilities of Global Ocean Programmes to Inform Climate Services. *Procedia Environmental Sciences*, **1**, 342-353, <http://dx.doi.org/10.1016/j.proenv.2010.09.022>
- Bingham, F. M., G. R. Foltz, and M. J. McPhaden, 2010: Seasonal cycles of surface layer salinity in the Pacific Ocean. *Ocean Science*, **6**, 775-787, <http://dx.doi.org/10.5194/os-6-775-2010>
- Boss, E. and M. Behrenfeld, 2010: In situ evaluation of the initiation of the North Atlantic phytoplankton bloom. *Geophysical Research Letters*, **37**, L18603,

- <http://dx.doi.org/10.1029/2010GL044174>
- Brassington, G. B., 2010: Estimating Surface Divergence of Ocean Eddies Using Observed Trajectories from a Surface Drifting Buoy. *Journal of Atmospheric and Oceanic Technology*, **27**, 705-720, <http://dx.doi.org/10.1175/2009JTECHO651.1>
- Byun, S.-S., J. J. Park, K.-I. Chang, and R. W. Schmitt, 2010: Observation of near-inertial wave reflections within the thermocline layer of an anticyclonic mesoscale eddy. *Geophysical Research Letters*, **37**, L01606, <http://dx.doi.org/10.1029/2009GL041601>
- Calafat, F. M., M. Marcos, and D. Gomis, 2010: Mass contribution to Mediterranean Sea level variability for the period 1948-2000. *Global and Planetary Change*, **73**, 193-201, <http://dx.doi.org/10.1016/j.gloplacha.2010.06.002>
- Chambers, D. P. and J. K. Willis, 2010: A Global Evaluation of Ocean Bottom Pressure from GRACE, OMCT, and Steric-Corrected Altimetry. *Journal of Atmospheric and Oceanic Technology*, **27**, 1395-1402, <http://dx.doi.org/10.1175/2010JTECHO738.1>
- Chang, Y.-S., A. J. Rosati, and G. A. Vecchi, 2010: Basin patterns of global sea level changes for 2004-2007. *Journal of Marine Systems*, **80**, 115-124, <http://dx.doi.org/10.1016/j.jmarsys.2009.11.003>
- Chen, G., Y. Hou, Q. Zhang, and X. Chu, 2010: The eddy pair off eastern Vietnam: Interannual variability and impact on thermohaline structure. *Continental Shelf Research*, **30**, 715-723, <http://dx.doi.org/10.1016/j.csr.2009.11.013>
- Chen, G. X., Y. J. Hou, X. Q. Chu, and P. Qi, 2010: Vertical structure and evolution of the Luzon Warm Eddy. *Chinese Journal of Oceanology and Limnology*, **28**, 955-961, <http://dx.doi.org/10.1007/s00343-010-9040-3>
- Chi, J. J., C. N. Sun, and Y. J. Luo, 2010: The research on satellite remote sensing SSH data in describing the vertical distributing in the underwater (in Chinese). *Marine Forecasts*, **27**, 59-61,
- Chiodi, A. M. and D. E. Harrison, 2010: The Annual Range of Southern Hemisphere SST: Comparison with Surface Heating and Possible Reasons for the High-Latitude Falloff. *Journal of Climate*, **23**, 1994-2009, <http://dx.doi.org/10.1175/2009JCLI3154.1>
- Choi, Y. J. and J. H. Yoon, 2010: Structure and Seasonal Variability of the Deep Mean Circulation of the East Sea (Sea of Japan). *Journal of Oceanography*, **66**, 349-361, <http://dx.doi.org/10.1007/s10872-010-0031-y>
- Church, J. A., D. Roemmich, C. M. Domingues, J. K. Willis, N. J. White, J. E. Gilson, D. Stammer, A. Kohl, D. P. Chambers, F. W. Landerer, J. Marotzke, J. M. Gregory, T. Suzuki, A. Cazenave, and P. Y. Le Traon, 2010: Ocean Temperature and Salinity Contributions to Global and Regional Sea-Level Change. *Understanding sea level rise and variability*, J. A. Church, P. Woodworth, T. Aarup, and W. S. Wilson, Eds., 143-168, <http://dx.doi.org/10.1002/9781444323276.ch6>.
- Clark, M. R., F. Althaus, A. Williams, E. Niklitschek, G. M. Menezes, N.-R. Hareide, P. Sutton, and C. O'Donnell, 2010: Are deep-sea demersal fish assemblages globally homogenous? Insights from seamounts. *Marine Ecology*, **31**, 39-51, <http://dx.doi.org/10.1111/j.1439-0485.2010.00384.x>
- Claustre, H., J. Bishop, E. Boss, B. Stewart, J.-F. Berthon, C. Coatanoan, K. Johnson, A. Lotiker, O. Ulloa, M. J. Perry, F. D'Ortenzio, O. Hembise Fanton D'Andon, and J. Utiz, 2010: Bio-Optical Profiling Floats as New Observational Tools for Biogeochemical and

- Ecosystem Studies: Potential Synergies with Ocean Color Remote Sensing. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, Venice, Italy, J. Hall, D. E. Harrison, and D. Stammer, ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.17>
- Claustre, H. and co-authors, 2010: Bio-optical Profiling Floats as New Observational Tools for Biogeochemical and Ecosystem Studies. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society* J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.17>.
- Corre, L., L. Terray, M. Balmaseda, A. Ribes, and A. Weaver, 2010: Can oceanic reanalyses be used to assess recent anthropogenic changes and low-frequency internal variability of upper ocean temperature? *Climate Dynamics*, **38**, 877-896, <http://dx.doi.org/10.1007/s00382-010-0950-8>
- Cronin, M. and co-authors, 2010: Monitoring Ocean-Atmosphere Interactions in Western Boundary Current Extensions. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.20>.
- de Boisseson, E., V. Thierry, H. Mercier, and G. Caniaux, 2010: Mixed layer heat budget in the Iceland Basin from Argo. *Journal of Geophysical Research* **115**, C10055, <http://dx.doi.org/10.1029/2010JC006283>
- Dencausse, G., M. Arhan, and S. Speich, 2010: Routes of Agulhas rings in the southeastern Cape Basin. *Deep Sea Research Part I: Oceanographic Research Papers*, **57**, 1406-1421, <http://dx.doi.org/10.1016/j.dsr.2010.07.008>
- Deng, Z. W., Y. M. Tang, and G. H. Wang, 2010: Assimilation of Argo temperature and salinity profiles using a bias-aware localized EnKF system for the Pacific Ocean. *Ocean Modelling*, **35**, 187-205, <http://dx.doi.org/10.1016/j.ocemod.2010.07.007>
- DiNezio, P. N. and G. J. Goni, 2010: Identifying and Estimating Biases between XBT and Argo Observations Using Satellite Altimetry. *Journal of Atmospheric and Oceanic Technology*, **27**, 226-240, <http://dx.doi.org/10.1175%2F2009JTECHO711.1>
- Dobricic, S., N. Pinardi, P. Testor, and U. Send, 2010: Impact of data assimilation of glider observations in the Ionian Sea (Eastern Mediterranean). *Dynamics of Atmospheres and Oceans*, **50**, 78-92, <http://dx.doi.org/10.1016/j.dynatmoce.2010.01.001>
- Doi, T., T. Tozuka, and T. Yamagata, 2010: The Atlantic Meridional Mode and Its Coupled Variability with the Guinea Dome. *Journal of Climate*, **23**, 455-475, <http://dx.doi.org/10.1175%2F2009JCLI3198.1>
- Donlon, C., K. Casey, C. Gentemann, R. Le Borgne, I. Robinson, R. Reynolds, C. J. Merchant, D. T. Llewellyn-Jones, P. Minnett, J. Piolle, P. C. Cornillon, N. Rayner, T. Brandon, J. Vazquez, E. Armstrong, H. Beggs, I. Barton, G. A. Wick, S. L. Castro, J. Hoeyer, D. May, O. Arino, D. Poulter, R. H. Evans, C. Mutlow, A. Bingham, and A. Harris, 2010: Successes and Challenges for the Modern Sea Surface Temperature Observing System. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.24>.
- Donohue, K. A., D. R. Watts, K. L. Tracey, A. D. Greene, and M. Kennelly, 2010: Mapping Circulation in the Kuroshio Extension with an Array of Current and Pressure

- Recording Inverted Echo Sounders. *Journal of Atmospheric and Oceanic Technology*, **27**, 507-527, <http://dx.doi.org/10.1175/2009JTECHO686.1>
- Douglass, E., D. Roemmich, and D. Stammer, 2010: Interannual variability in North Pacific heat and freshwater budgets. *Deep Sea Research Part II: Topical Studies in Oceanography*, **57**, 1127-1140, <http://dx.doi.org/10.1016/j.dsr2.2010.01.001>
- Drushka, K., J. Sprintall, S. T. Gille, and I. Brodjonegoro, 2010: Vertical Structure of Kelvin Waves in the Indonesian Throughflow Exit Passages. *Journal of Physical Oceanography*, **40**, 1965-1987, <http://dx.doi.org/10.1175/2010JPO4380.1>
- Dumousseaud, C., E. P. Achterberg, T. Tyrrell, A. Charalampopoulou, U. Schuster, M. Hartman, and D. J. Hydes, 2010: Contrasting effects of temperature and winter mixing on the seasonal and inter-annual variability of the carbonate system in the Northeast Atlantic Ocean. *Biogeosciences*, **7**, 1481-1492, <https://doi.org/10.5194/bg-7-1481-2010>
- Dunstone, N. J. and D. M. Smith, 2010: Impact of atmosphere and sub-surface ocean data on decadal climate prediction. *Geophysical Research Letters*, **37**, <http://dx.doi.org/10.1029/2009GL041609>
- Durack, P. J. and S. E. Wijffels, 2010: Fifty-Year Trends in Global Ocean Salinities and Their Relationship to Broad-Scale Warming. *Journal of Climate*, **23**, 4342-4362, <http://dx.doi.org/10.1175/2010JCLI3377.1>
- Fan, C. H., J. J. Wang, and J. B. Song, 2010: Factors influencing the climatological mixed layer depth in the South China Sea: numerical simulations. *Chinese Journal of Oceanology and Limnology*, **28**, 1112-1118, <http://dx.doi.org/10.1007/s00343-010-0002-6>
- Feng, J. Q., X. Z. Bai, Y. L. Chen, and D. X. Hu, 2010: Effect of low-frequency Rossby wave on thermal structure of the upper southwestern tropical Indian Ocean. *Chinese Journal of Oceanology and Limnology*, **28**, 344-353, <http://dx.doi.org/10.1007/s00343-010-9264-2>
- Flechtner, F. M., T. Gruber, A. Guntner, M. Manda, M. Rothacher, T. Schone, J. Wickert, F. Richter, D. Sidorenko, S. Danilov, and J. Schroter, 2010: Using ARGO, GRACE and Altimetry Data to Assess the Quasi Stationary North Atlantic Circulation. *System Earth via Geodetic-Geophysical Space Techniques*, L. Stroink, V. Mosbrugger, and G. Wefer, Eds., Springer Berlin Heidelberg, 351-358, http://dx.doi.org/10.1007/978-3-642-10228-8_29.
- Foltz, G. R., J. Vialard, B. Praveen Kumar, and M. J. McPhaden, 2010: Seasonal Mixed Layer Heat Balance of the Southwestern Tropical Indian Ocean. *Journal of Climate*, **23**, 947-965, <http://dx.doi.org/10.1175/2009JCLI3268.1>
- Forget, G., 2010: Mapping Ocean Observations in a Dynamical Framework: A 2004-06 Ocean Atlas. *Journal of Physical Oceanography*, **40**, 1201-1221, <http://dx.doi.org/10.1175/2009JPO4043.1>
- Frajka-Williams, E. and P. B. Rhines, 2010: Physical controls and interannual variability of the Labrador Sea spring phytoplankton bloom in distinct regions. *Deep Sea Research Part I: Oceanographic Research Papers*, **57**, 541-552, <http://dx.doi.org/10.1016/j.dsr.2010.01.003>
- Fratantoni, P. S. and M. S. McCartney, 2010: Freshwater export from the Labrador Current to the North Atlantic Current at the Tail of the Grand Banks of Newfoundland. *Deep Sea*

- Research Part I: Oceanographic Research Papers*, **57**, 258-283,
<http://dx.doi.org/10.1016/j.dsr.2009.11.006>
- Freeland, H. J., D. Roemmich, S. L. Garzoli, P. Y. Le Traon, M. Ravichandran, S. Riser, V. Thierry, S. Wijffels, M. Belbeoch, J. Gould, F. Grant, M. Ignazewski, B. King, B. Klein, K. A. MORK, B. Owens, S. Pouliquen, A. Sterl, T. Suga, M. S. Suk, P. Sutton, A. Troisi, P. Velez-Belchi, and J. Xu, 2010: Argo - A Decade of Progress. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publications,
<http://dx.doi.org/10.5270/OceanObs09.cwp.32>.
- Ganachaud, A., A. Vega, M. Rodier, C. Dupouy, C. Maes, P. Marchesiello, G. Eldin, K. Ridgway, and R. Le Borgne, 2010: Observed impact of upwelling events on water properties and biological activity off the southwest coast of New Caledonia. *Marine Pollution Bulletin*, **61**, 449-464, <http://dx.doi.org/10.1016/j.marpolbul.2010.06.042>
- Garcia-Garcia, D., B. F. Chao, and J. P. Boy, 2010: Steric and mass-induced sea level variations in the Mediterranean Sea revisited. *J. Geophys. Res.*, **115**, C12016,
<http://dx.doi.org/10.1029/2009JC005928>
- George, M. S., L. Bertino, O. M. Johannessen, and A. Samuelsen, 2010: Validation of a hybrid coordinate ocean model for the Indian Ocean. *Journal of Operational Oceanography*, **3**, 25-38,
- Gille, S. T., 2010: Climate science: Asymmetric response. *Nature Geoscience*, **3**, 227-228,
<http://dx.doi.org/10.1038/ngeo821>
- Grist, J. P., S. Josey, R. Marsh, S. Good, A. Coward, B. de Cuevas, S. Alderson, A. New, and G. Madec, 2010: The roles of surface heat flux and ocean heat transport convergence in determining Atlantic Ocean temperature variability. *Ocean Dynamics*, **60**, 771-790,
<http://dx.doi.org/10.1007/s10236-010-0292-4>
- Gruber, N., S. Doney, S. R. Emerson, D. Gilbert, T. Kobayashi, A. Kortzinger, G. C. Johnson, K. Johnson, S. Riser, and O. Ulloa, 2010: Addition Oxygen to Argo: Developing a Global In Situ Observatory for Ocean Deoxygenation and Biogeochemistry. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, Venice, Italy, J. Hall, D. E. Harrison, and D. Stammer, ESA Publication,
<http://dx.doi.org/10.5270/OceanObs09.cwp.39>
- Gruber, N., A. Kortzinger, A. Borges, H. Claustre, S. C. Doney, R. A. Feely, M. Hood, M. Ishii, A. Kozyr, and P. Monteiro, 2010: Towards an integrated observing system for ocean carbon and biogeochemistry at a time of change. *Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information for Society" Conference, Venice, Italy, 21-25 September 2009*, J. Hall, Harrison D.E. and Stammer, D., ESA Publication WPP-306, <http://dx.doi.org/10.5270/OceanObs09.cwp.39>
- Hartman, S. E., K. E. Larkin, R. S. Lampitt, M. Lankhorst, and D. J. Hydes, 2010: Seasonal and inter-annual biogeochemical variations in the Porcupine Abyssal Plain 2003-2005 associated with winter mixing and surface circulation. *Deep Sea Research Part II: Topical Studies in Oceanography*, **57**, 1303-1312,
<http://dx.doi.org/10.1016/j.dsr2.2010.01.007>
- Hartoko, A., 2010: SPATIAL DISTRIBUTION OF Thunnus. sp, VERTICAL AND HORIZONTAL SUB-SURFACE MULTILAYER TEMPERATURE PROFILES OF IN-SITU AGRO FLOAT

- DATA IN INDIAN OCEAN. *Journal of Coastal Development*, **14**, 61-74,
<http://ejournal.undip.ac.id/index.php/coastdev/article/view/950>
- He, Y. W., F. Z. Su, Y. Y. Du, and R. L. Xiao, 2010: Web-based spatiotemporal visualization of marine environment data. *Chinese Journal of Oceanology and Limnology*, **28**, 1086-1094, <http://dx.doi.org/10.1007/s00343-010-0029-8>
- Heimbach, P., G. Forget, R. M. Ponte, C. Wunsch, M. Balmaseda, T. Awaji, J. Baehr, D. Behringer, J. A. Carton, N. Ferry, A. S. Fischer, I. Fukumori, B. S. Giese, K. Haines, E. Harrison, F. Hernandez, M. Kamachi, C. Keppenne, A. Kohl, T. Lee, D. Menemenlis, P. Oke, E. Remy, M. Rienecker, A. Rosati, D. M. Smith, K. Speer, D. Stammer, and A. Weaver, 2010: Observational Requirements for Global-Scale Ocean Climate Analysis: Lessons from Ocean State Estimation. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.42>.
- Helber, R. W., J. F. Shriver, C. N. Barron, and O. M. Smedstad, 2010: Evaluating the Impact of the Number of Satellite Altimeters Used in an Assimilative Ocean Prediction System. *Journal of Atmospheric and Oceanic Technology*, **27**, 528-546, <http://dx.doi.org/10.1175/2009JTECHO683.1>
- Helm, K. P., N. L. Bindoff, and J. A. Church, 2010: Changes in the global hydrological-cycle inferred from ocean salinity. *Geophysical Research Letters*, **37**, L18701, <http://dx.doi.org/10.1029/2010GL044222>
- Henocq, C., J. Boutin, F. Petitcolin, G. Reverdin, S. Arnault, and P. Lattes, 2010: Vertical Variability of Near-Surface Salinity in the Tropics: Consequences for L-Band Radiometer Calibration and Validation. *Journal of Atmospheric and Oceanic Technology*, **27**, 192-209, <http://dx.doi.org/10.1175%2F2009JTECHO670.1>
- Hernandez-Guerra, A., T. M. Joyce, E. Fraile-Nuez, and P. Velez-Belchi, 2010: Using Argo data to investigate the Meridional Overturning Circulation in the North Atlantic. *Deep Sea Research Part I: Oceanographic Research Papers*, **57**, 29-36, <http://dx.doi.org/10.1016/j.dsr.2009.10.003>
- Hosoda, S., 2010: Argo program: A new observing system for ocean research and real time monitoring. *Blue Earth*, **22**, 12-13,
- Hosoda, S., 2010: Surface layer salinity change in the global ocean - hydrological cycle change detected by Argo. *Kaiyo Monthly*, **42**, 621-627,
- Hosoda, S. and M. Hirano, 2010: Argo float maintenance and checking at JAMSTEC. *Blue Earth, Special Issue 2010*, 22-23,
- Hosoda, S., T. Ohira, K. Sato, and T. Suga, 2010: Improved Description of Global Mixed-Layer Depth Using Argo Profiling Floats. *Journal of Oceanography*, **66**, 773-787, <http://dx.doi.org/10.1007/s10872-010-0063-3>
- Hosoda, S., T. Suga, N. Shikama, and K. Mizuno, 2010: Recent Change in Global Sea Surface Layer Salinity Detected by Argo Float Array. In *Proceedings of Ocean Obs'09: Sustained Ocean Observations and Information for Society (Annex)*, Venice, Italy, J. Hall, D. E. Harrison, and D. Stammer, ESA Publication, <http://dx.doi.org/10.5270/OceanObs09>
- Hoteit, I., B. Cornuelle, and P. Heimbach, 2010: An eddy-permitting, dynamically consistent adjoint-based assimilation system for the tropical Pacific: Hindcast experiments in

2000. *Journal of Geophysical Research: Oceans*, **115**, 23, <http://dx.doi.org/10.1029/2009jc005437>
- Howell, E., P. Dutton, J. Polovina, H. Bailey, D. Parker, and G. Balazs, 2010: Oceanographic influences on the dive behavior of juvenile loggerhead turtles (*Caretta caretta*) in the North Pacific Ocean. *Marine Biology*, **157**, 1011-1026, <http://dx.doi.org/10.1007/s00227-009-1381-0>
- Huang, B., Y. Xue, D. Zhang, A. Kumar, and M. J. McPhaden, 2010: The NCEP GODAS Ocean Analysis of the Tropical Pacific Mixed Layer Heat Budget on Seasonal to Interannual Time Scales. *Journal of Climate*, **23**, 4901-4925, <http://dx.doi.org/10.1175/2010JCLI3373.1>
- Ishii, M., 2010: Argo and historical ocean heat content changes. *Kaiyo Monthly*, **42**, 614-620,
- Ito, S. I., Y. Shimizu, S. Takehi, T. Wagawa, and M. Sato, 2010: Current status of underwater glider observations. *Kaiyo Monthly*, **42**, 658-667,
- Itoh, S. and I. Yasuda, 2010: Water Mass Structure of Warm and Cold Anticyclonic Eddies in the Western Boundary Region of the Subarctic North Pacific. *Journal of Physical Oceanography*, **40**, 2624-2642, <http://dx.doi.org/10.1175/2010JPO4475.1>
- Ivanov, L. M., C. A. Collins, T. M. Margolina, and V. N. Eremeev, 2010: Nonlinear Rossby waves off California. *Geophysical Research Letters*, **37**, L13602, <http://dx.doi.org/10.1029/2010GL043708>
- Ivchenko, V. O., N. C. Wells, D. L. Aleynik, and A. G. P. Shaw, 2010: Variability of heat and salinity content in the North Atlantic in the last decade. *Ocean Science*, **6**, 719-735, <https://doi.org/10.5194/os-6-719-2010>
- Jin, G. D., Z. Tao, and X. M. Liu, 2010: Analysis of temperature and salinity of sea based on Argo data (in Chinese). *Marine Environmental Science*, **29**, 415-419,
- Johnson, G. C. and J. M. Lyman, 2010: Global Oceans: Sea Surface Salinity. In State of the Climate 2009. *Bulletin of the American Meteorological Society*, **91**, S63-S64, <http://dx.doi.org/10.1175/BAMS-91-7-StateoftheClimate>
- Johnson, G. C., J. M. Lyman, J. Willis, S. Levitus, T. Boyer, J. I. Antonov, M. D. Palmer, and S. A. Good, 2010: Global Oceans: Ocean Heat Content. In State of the Climate in 2009. *Bulletin of the American Meteorological Society*, **91**, S56-S59, <http://dx.doi.org/10.1175/BAMS-91-7-StateoftheClimate>
- Johnson, G. C. and K. E. McTaggart, 2010: Equatorial Pacific 13 degree C Water Eddies in the Eastern Subtropical South Pacific Ocean. *Journal of Physical Oceanography*, **40**, 226-236, <http://dx.doi.org/10.1175%2F2009JPO4287.1>
- Johnson, K. S., S. C. Riser, and D. M. Karl, 2010: Nitrate supply from deep to near-surface waters of the North Pacific subtropical gyre. *Nature*, **465**, 1062-1065, <http://dx.doi.org/10.1038/nature09170>
- Jorda, G. and D. Gomis, 2010: Toward SMOS L4 SSS Products: Improving L3 SSS With Auxiliary SSS Data. *Ieee Transactions on Geoscience and Remote Sensing*, **48**, 2204-2214, <https://doi.org/10.1109/TGRS.2009.2037899>
- Kara, A. B., R. W. Helber, and A. J. Wallcraft, 2010: Evaluations of threshold and curvature mixed layer depths by various mixing schemes in the Mediterranean Sea. *Ocean Modelling*, **34**, 166-184, <http://dx.doi.org/10.1016/j.ocemod.2010.05.006>
- Katsumata, K. and H. Yoshinari, 2010: Uncertainties in global mapping of Argo drift data at

- the parking level. *Journal of Oceanography*, **66**, 553-569,
<http://dx.doi.org/10.1007/s10872-010-0046-4>
- Katsumata, K. and H. Yoshinari, 2010: Grid data of intermediate-depth velocity estimated from Argo drift: G-YoMaHa. *Kaiyo Monthly*, **42**, 709-714,
- Kawai, Y., 2010: New-surface temperature and salinity observations by Argo for air-sea interaction research. *Kaiyo Monthly*, **42**, 678-693,
- Kawamiya, M., 2010: Suggestions from a biogeochemical-modling point of view. *Kaiyo Monthly*, **42**, 702-708,
- Kihm, C. and A. Kortzinger, 2010: Air-sea gas transfer velocity for oxygen derived from float data. *J. Geophys. Res.*, **115**, C12003, <http://dx.doi.org/10.1029/2009JC006077>
- Kikuchi, T., O. Klatt, and E. Fahrbach, 2010: Application of Argo profiling float for the Polar Ocean Monitoring. *Kaiyo Monthly*, **42**, 671-677,
- Kim, E. J., S. K. Kang, S.-T. Jang, J. H. Lee, Y. H. Kim, H.-W. Kang, Y. Y. Kwon, and Y. H. Seung, 2010: Satellite-derived SST validation based on in-situ data during summer in the East China Sea and western North Pacific. *Ocean Science Journal*, **45**, 159-170,
<http://dx.doi.org/10.1007/s12601-010-0014-3>
- Kobayashi, T., 2010: Development of a profiling float for deep ocean observation. *Kaiyo Monthly*, **42**,
- Kobayashi, T., K. Mizuno, and T. Suga, 2010: Long-term variations of Subantarctic Mode Water at 32 S in the Indian Ocean. In *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society Conference (Annex)*, Venice, Italy, J. Hall, D. E. Harrison, and D. Stammer, ESA Publication,
<http://dx.doi.org/10.5270/OceanObs09>
- Kobayashi, T., T. Nakamura, N. Ogita, and H. Nakajima, 2010: Quality control of Argo surface trajectory data considering position errors fixed by Argos system. In *Proceeding of OceanObs'09: Sustained Ocean Observations and Information for Society Conference (Annex)*, Venice, Italy, J. Hall, D. E. Harrison, and D. Stammer, ESA Publication, <http://dx.doi.org/10.5270/OceanObs09>
- Koch-Larrouy, A., R. Morrow, T. Penduff, and M. Juza, 2010: Origin and mechanism of Subantarctic Mode Water formation and transformation in the Southern Indian Ocean. *Ocean Dynamics*, **60**, 563-583, <http://dx.doi.org/10.1007/s10236-010-0276-4>
- Korres, G., K. Nitti, L. Perivoliotis, K. Tsiaras, A. Papadopoulos, G. Triantafyllou, and I. Hoteit, 2010: Forecasting the Aegean Sea hydrodynamics within the POSEIDON-II operational system. *Journal of Operational Oceanography*, **3**, 37-49,
<http://dx.doi.org/10.1080/1755876X.2010.11020112>
- Kumar, B. P., R. Barman, S. K. Dube, P. C. Pandey, M. Ravichandran, and S. Nayak, 2010: Development of a New Comprehensive Ocean Atlas for Indian Ocean utilizing ARGO Data. *International Journal of Climatology*, **30**, 185-196,
<http://dx.doi.org/10.1002/joc.1885>
- Kumar, M. R. R. and P. Byju, 2010: A multi-sensor study of conditions leading to the formation of a cyclone over the Arabian Sea during 5-9 May 2004. *International Journal of Remote Sensing*, **31**, 4683-4697,
<http://dx.doi.org/10.1080/01431161.2010.485214>
- Lagerloef, G., J. Boutin, Y. Chao, T. Delcroix, J. Font, P. P. Niiler, N. Reul, S. Riser, R. W.

- Schmitt, D. Stammer, and F. Wentz, 2010: Resolving the Global Surface Salinity Field and Variations by Blending Satellite and In Situ Observations. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.51>.
- Latarius, K. and D. Quadfasel, 2010: Seasonal to inter-annual variability of temperature and salinity in the Greenland Sea Gyre: heat and freshwater budgets. *Tellus A*, **62**, 497-515, <http://dx.doi.org/10.1111/j.1600-0870.2010.00453.x>
- Le Traon, P. Y., M. J. Bell, E. Dombrowsky, A. Schiller, and K. Wilmer-Becker, 2010: GODAE OceanView: From an Experiment Towards a Long-term Ocean Analysis and Forecasting International Program. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.57>.
- Lee, T., T. Awaji, M. Balmaseda, N. Ferry, Y. Fujii, I. Fukumori, B. Giese, P. Heimbach, A. Kohl, S. Masina, E. Remy, A. Rosati, M. Schodlok, D. Stammer, and A. Weaver, 2010: Consistency and fidelity of Indonesian-throughflow total volume transport estimated by 14 ocean data assimilation products. *Dynamics of Atmospheres and Oceans*, **50**, 201-223, <http://dx.doi.org/10.1016/j.dynatmoce.2009.12.004>
- Lee, T., D. Stammer, T. Awaji, M. Balmaseda, D. Behringer, J. A. Carton, N. Ferry, A. S. Fischer, I. Fukumori, B. S. Giese, K. Haines, E. Harrison, P. Heimbach, M. Kamachi, C. Keppenne, A. Kohl, S. Masina, D. Menemenlis, R. M. Ponte, E. Remy, M. Rienecker, A. Rosati, J. Schroeter, D. M. Smith, A. Weaver, C. Wunsch, and Y. Xue, 2010: Ocean State Estimation for Climate Research. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.55>.
- Liu, Y., J. A. T. Bye, Y. You, X. Bao, and D. Wu, 2010: The flushing and exchange of the South China Sea derived from salt and mass conservation. *Deep Sea Research Part II: Topical Studies in Oceanography*, **57**, 1212-1220, <http://dx.doi.org/10.1016/j.dsr2.2009.12.010>
- Liu, Y. and C. Yan, 2010: Application of a recursive filter to a three-dimensional variational ocean data assimilation system. *Advances in Atmospheric Sciences*, **27**, 293-302, <http://dx.doi.org/10.1007/s00376-009-8112-9>
- Liu, Z.-H., T. Zhang, and B. K. Zhu, 2010: A method to extend the lifetime of APEX Argo profiler (in Chinese). *Ocean Technology*, **29**, 115-118,
- Llovel, W., S. Guinehut, and A. Cazenave, 2010: Regional and interannual variability in sea level over 2002-2009 based on satellite altimetry, Argo float data and GRACE ocean mass. *Ocean Dynamics*, **60**, 1193-1204, <http://dx.doi.org/10.1007/s10236-010-0324-0>
- Lyman, J. M., S. A. Good, V. V. Gouretski, M. Ishii, G. C. Johnson, M. D. Palmer, D. M. Smith, and J. K. Willis, 2010: Robust warming of the global upper ocean. *Nature*, **465**, 334-337, <http://dx.doi.org/10.1038/nature09043>
- Mackinnon, J., M. H. Alford, P. Bouruet-Aubertot, N. L. Bindoff, S. Elipot, S. T. Gille, J. B. Girton, M. C. Gregg, R. W. Hallberg, E. Kunze, A. Naviera Garabato, H. E. Phillips, R. Pinkel, K. Polzin, T. B. Sanford, H. Simmons, and K. Speer, 2010: Using global arrays

- to investigate internal-waves and mixing. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.58>.
- Marullo, S., R. Santoleri, V. Banzon, R. H. Evans, and M. Guarracino, 2010: A diurnal-cycle resolving sea surface temperature product for the tropical Atlantic. *J. Geophys. Res.*, **115**, C05011, <http://dx.doi.org/10.1029/2009JC005466>
- Masuda, S., T. Awaji, N. Sugiura, J. P. Matthews, T. Toyoda, Y. Kawai, T. Doi, S. Kouketsu, H. Igarashi, K. Katsumata, H. Uchida, T. Kawano, and M. Fukasawa, 2010: Simulated Rapid Warming of Abyssal North Pacific Waters. *Science*, **329**, 319-322, <http://dx.doi.org/10.1126/science.1188703>
- Matthews, A. J., P. Singhruck, and K. J. Heywood, 2010: Ocean temperature and salinity components of the Madden-Julian oscillation observed by Argo floats. *Climate Dynamics*, **35**, 1149-1168, <http://dx.doi.org/10.1007/s00382-009-0631-7>
- Mazloff, M. R., P. Heimbach, and C. Wunsch, 2010: An Eddy-Permitting Southern Ocean State Estimate. *Journal of Physical Oceanography*, **40**, 880-899, <http://dx.doi.org/10.1175/2009jpo4236.1>
- Menna, M. and P. M. Poulain, 2010: Mediterranean intermediate circulation estimated from Argo data in 2003-2010. *Ocean Science*, **6**, 331-343, <http://dx.doi.org/10.5194/os-6-331-2010>
- Merrifield, M., S. Gill, E. W. Leuliette, L. Miller, G. Mitchum, R. S. Nerem, and P. Woodworth, 2010: Global Oceans: Sea level variations. In State of the Climate 2009. *Bulletin of the American Meteorological Society*, **91**, S69-S70, <http://dx.doi.org/10.1175/BAMS-91-7-StateoftheClimate>
- Mizuno, K., 2010: Argo Chronicle. *Kaiyo Monthly*, **42**, 715-721,
- Moller, G. S. F., E. M. L. d. M. Novo, and M. Kampel, 2010: Space-time variability of the Amazon River plume based on satellite ocean color. *Continental Shelf Research*, **30**, 342-352, <http://dx.doi.org/10.1016/j.csr.2009.11.015>
- Mooers, C. N. K., 2010: Quasi-Operational Coastal Ocean Nowcast/Forecast Systems. *Terrestrial Atmospheric and Oceanic Sciences*, **21**, 181-193, [http://dx.doi.org/10.3319/TAO.2009.06.08.04\(IWNOP\)](http://dx.doi.org/10.3319/TAO.2009.06.08.04(IWNOP))
- Morel, A., H. Claustre, and B. Gentili, 2010: The most oligotrophic subtropical zones of the global ocean: similarities and differences in terms of chlorophyll and yellow substance. *Biogeosciences*, **7**, 3139-3151, <http://dx.doi.org/10.5194/bg-7-3139-2010>
- Nagura, M. and M. J. McPhaden, 2010: Dynamics of zonal current variations associated with the Indian Ocean dipole. *Journal of Geophysical Research-Oceans*, **115**, C11026, <http://dx.doi.org/10.1029/2010JC006423>
- Nairn, R., S. Bateman, and R. H. Woodham, 2010: Oceanography and Force 2030: harnessing Australian marine science as a force multiplier. *Australian Defence Force Journal*, **182**, 5-15, http://www.adfjournal.adc.edu.au/UserFiles/issues/182%202010%20Jul_Aug.pdf
- Nakano, Y., T. Fuhuki, and S. Watanabe, 2010: Observation of seawater carbonate species by in situ sensor. *Kaiyo Monthly*, **42**, 684-688,
- Nerem, R. S., D. P. Chambers, E. W. Leuliette, G. Mitchum, M. Merrifield, and J. Willis, 2010: Observations of Sea Level Change: What Have We Learned and What are the

- Remaining Challenges? *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.65>.
- Nonaka, M. and co-authors, 2010: A revisit of the reason why the properties of the Central Mode Water in the North Pacific changed in regime shifts. *In Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Annex)*, Venice, Italy, J. Hall, D. E. Harrison, and D. Stammer, ESA Publication, <http://dx.doi.org/10.5270/OceanObs09>
- Ohshima, K. I., T. Nakanowatari, S. Riser, and M. Wakatsuchi, 2010: Seasonal variation in the in- and outflow of the Okhotsk Sea with the North Pacific. *Deep Sea Research Part II: Topical Studies in Oceanography*, **57**, 1247-1256, <http://dx.doi.org/10.1016/j.dsr2.2009.12.012>
- Ohshima, K. I., T. Nakanowatari, S. Riser, and M. Wakatsuchi, 2010: Float observations in the ice-covered Sea of Okhotsk. *Kaiyo Monthly*, **42**, 643-653,
- Oka, E., 2010: Seasonal and Interannual Variation of North Pacific Subtropical Mode Water in 2003-2006. *In Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Annex)*, Venice, Italy, J. Hall, D. E. Harrison, and D. Stammer, ESA Publication, <http://dx.doi.org/10.5270/OceanObs09>
- Oka, E., 2010: Mode Waters in the North Pacific Ocean. *Aquabiology*, **32**, 205-210,
- Oka, E., 2010: New aspects on the circulation of Subtropical and Central Mode Waters in the North Pacific Ocean. *Kaiyo Monthly*, **42**, 628-637,
- Okamoto, S., T. Hirawake, and S.-I. Saitoh, 2010: Interannual variability in the magnitude and timing of the spring bloom in the Oyashio region. *Deep Sea Research Part II: Topical Studies in Oceanography*, **57**, 1608-1617, <http://dx.doi.org/10.1016/j.dsr2.2010.03.005>
- Oke, P. R., M. Balmaseda, M. Benkiran, J. Cummings, E. Dombrowsky, Y. Fujii, S. Guinehut, G. Larnicol, P. Y. Le Traon, and M. Martin, 2010: Observational Requirements of GODAE Systems. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.67>.
- Oke, P. R., G. B. Brassington, D. A. Griffin, and A. Schiller, 2010: Ocean data assimilation: a case for ensemble optimal interpolation. *Australian Meteorological and Oceanographic Journal*, **59**, 67-76, <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.442.1356&rep=rep1&type=pdf>
- Osafune, S. and I. Yasuda, 2010: Bidecadal variability in the Bering Sea and the relation with 18.6 year period nodal tidal cycle. *J. Geophys. Res.*, **115**, C02014, <http://dx.doi.org/10.1029/2008JC005110>
- Palmer, M. D., J. Antonov, P. Barker, N. L. Bindoff, T. Boyer, M. Carson, C. M. Domingues, S. Gille, P. J. Gleckler, S. A. Good, V. Gouretski, S. Guinehut, K. Haines, D. E. Harrison, M. Ishii, G. C. Johnson, S. Levitus, M. S. Lozier, J. M. Lyman, A. J. S. Meijers, K. von Schuckmann, D. M. Smith, S. Wijffels, and J. Willis, 2010: Future Observations for Monitoring Global Ocean Heat Content. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D.

- Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.68>.
- Parampil, S. R., A. Gera, M. Ravichandran, and D. Sengupta, 2010: Intraseasonal response of mixed layer temperature and salinity in the Bay of Bengal to heat and freshwater flux. *J. Geophys. Res.*, **115**, C05002, <http://dx.doi.org/10.1029/2009JC005790>
- Park, Y.-G., A. Choi, Y. H. Kim, H. S. Min, J. H. Hwang, and S. H. Choi, 2010: Direct flows from the Ulleung Basin into the Yamato Basin in the East/Japan Sea. *Deep Sea Research Part I: Oceanographic Research Papers*, **57**, 731-738, <http://dx.doi.org/10.1016/j.dsr.2010.03.006>
- Pinardi, N. and G. Coppini, 2010: Operational oceanography in the Mediterranean Sea: the second stage of development Preface. *Ocean Science*, **6**, 263-267, <http://dx.doi.org/10.5194/os-6-263-2010>
- Pouliquen, S., C. Schmid, A. Wong, S. Guinehut, and M. Belbeoch, 2010: Argo Data Management. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.70>.
- Pujol, M.-I., S. Dobricic, N. Pinardi, and M. Adani, 2010: Impact of Multialtimeter Sea Level Assimilation in the Mediterranean Forecasting Model. *Journal of Atmospheric and Oceanic Technology*, **27**, 2065-2082, <http://dx.doi.org/10.1175/2010JTECHO715.1>
- Qiu, B. and S. Chen, 2010: Interannual Variability of the North Pacific Subtropical Countercurrent and Its Associated Mesoscale Eddy Field. *Journal of Physical Oceanography*, **40**, 213-225, <http://dx.doi.org/10.1175%2F2009JPO4285.1>
- Read, J. F., R. T. Pollard, P. I. Miller, and A. C. Dale, 2010: Circulation and variability of the North Atlantic Current in the vicinity of the Mid-Atlantic Ridge. *Deep Sea Research Part I: Oceanographic Research Papers*, **57**, 307-318, <http://dx.doi.org/10.1016/j.dsr.2009.11.010>
- Ren, L. and S. C. Riser, 2010: Observations of decadal time scale salinity changes in the subtropical thermocline of the North Pacific Ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, **57**, 1161-1170, <http://dx.doi.org/10.1016/j.dsr2.2009.12.005>
- Resnyanskii, Y., M. Tsyrlunikov, B. Strukov, and A. Zelenko, 2010: Statistical structure of spatial variability of the ocean thermohaline fields from argo profiling data, 2005-2007. *Oceanology*, **50**, 149-165, <http://dx.doi.org/10.1134/S0001437010020013>
- Richter, F., D. Sidorenko, S. Danilov, J. Schroter, F. M. Flechtner, T. Gruber, A. Guntner, M. Manda, M. Rothacher, T. Schone, and J. Wickert, 2010: Using ARGO, GRACE and Altimetry Data to Assess the Quasi Stationary North Atlantic Circulation System Earth via Geodetic-Geophysical Space Techniques. *Advanced Technologies in Earth Sciences*, L. Stroink, V. Mosbrugger, and G. Wefer, Eds., Springer Berlin Heidelberg, 351-358, http://dx.doi.org/10.1007/978-3-642-10228-8_29.
- Ridgway, K. R. and J. R. Dunn, 2010: Using satellite altimetry to correct mean temperature and salinity fields derived from Argo floats in the ocean regions around Australia. *Deep Sea Research Part I: Oceanographic Research Papers*, **57**, 1137-1151, <http://dx.doi.org/10.1016/j.dsr.2010.05.010>
- Rintoul, S., K. Speer, M. Sparrow, M. P. Meredith, E. Hofmann, E. Fahrbach, C. Summerhayes,

- A. Worby, M. H. England, R. Bellerby, S. Speich, D. Costa, J. Hall, M. Hildell, G. Hosie, K. Stanfield, Y. Fukamachi, T. de Bruin, A. C. Naveira Garabato, K. Alverson, V. Ryabinin, H. Shin, and S. Gladyshev, 2010: Southern Ocean Observing System (SOOS): Rationale and Strategy for Sustained Observations of the Southern Ocean. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.74>.
- Roemmich, D., L. Boehme, H. Claustre, H. Freeland, M. Fukasawa, G. Goni, W. J. Gould, N. Gruber, M. Hood, E. Kent, R. Lumpkin, S. Smith, and P. Testor, 2010: Integrating the Ocean Observing System: Mobile Platforms. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, Venice, Italy, J. Hall, D. E. Harrison, and D. Stammer, ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.pp.33>
- Rogachev, K. and N. Shlyk, 2010: The increased radius of the Aleutian eddies and their long-term evolution. *Russian Meteorology and Hydrology*, **35**, 206-210, <http://dx.doi.org/10.3103/S1068373910030076>
- Royer, S.-J., M. Lvasseur, M. Lizotte, M. Arychuk, M. G. Scarratt, C. S. Wong, C. Lovejoy, M. Robert, K. Johnson, A. Peña, S. Michaud, and R. P. Kiened, 2010: Microbial dimethylsulfoniopropionate (DMSP) dynamics along a natural iron gradient in the northeast subarctic Pacific. *Limnology and Oceanography*, **55**, 1614-1626, <http://dx.doi.org/10.4319/lo.2010.55.4.1614>
- Saha, S., S. Moorthi, H.-L. Pan, X. Wu, J. Wang, S. Nadiga, P. Tripp, R. Kistler, J. Woollen, D. Behringer, H. Liu, D. Stokes, R. Grumbine, G. Gayno, J. Wang, Y.-T. Hou, H.-Y. Chuang, H.-M. H. Juang, J. Sela, M. Iredell, R. Treadon, D. Kleist, P. Van Delst, D. Keyser, J. Derber, M. Ek, J. Meng, H. Wei, R. Yang, S. Lord, H. Van Den Dool, A. Kumar, W. Wang, C. Long, M. Chelliah, Y. Xue, B. Huang, J.-K. Schemm, W. Ebisuzaki, R. Lin, P. Xie, M. Chen, S. Zhou, W. Higgins, C.-Z. Zou, Q. Liu, Y. Chen, Y. Han, L. Cucurull, R. W. Reynolds, G. Rutledge, and M. Goldberg, 2010: The NCEP Climate Forecast System Reanalysis. *Bulletin of the American Meteorological Society*, **91**, 1015-1057, <http://dx.doi.org/10.1175/2010BAMS3001.1>
- Sallee, J. B., K. Speer, S. Rintoul, and S. Wijffels, 2010: Southern Ocean Thermocline Ventilation. *Journal of Physical Oceanography*, **40**, 509-529, <http://dx.doi.org/10.1175/2009jpo4291.1>
- Sallee, J. B., K. G. Speer, and S. R. Rintoul, 2010: Zonally asymmetric response of the Southern Ocean mixed-layer depth to the Southern Annular Mode. *Nature Geoscience*, **3**, 273-279, <http://dx.doi.org/10.1038/ngeo812>
- Sandery, P. A., G. B. Brassington, A. Craig, and T. Pugh, 2010: Impacts of Ocean-Atmosphere Coupling on Tropical Cyclone Intensity Change and Ocean Prediction in the Australian Region. *Monthly Weather Review*, **138**, 2074-2091, <http://dx.doi.org/10.1175/2010MWR3101.1>
- Santoso, A., A. Sen Gupta, and M. H. England, 2010: Genesis of Indian Ocean Mixed Layer Temperature Anomalies: A Heat Budget Analysis. *Journal of Climate*, **23**, 5375-5403, <http://dx.doi.org/10.1175/2010JCLI3072.1>
- Sarmiento, J. L., R. D. Slater, J. Dunne, A. Gnanadesikan, and M. R. Hiscock, 2010: Efficiency

- of small scale carbon mitigation by patch iron fertilization. *Biogeosciences*, **7**, 3593-3624, <http://dx.doi.org/10.5194/bg-7-3593-2010>
- Sasaki, Y. N., N. Schneider, N. Maximenko, and K. Lebedev, 2010: Observational evidence for propagation of decadal spiciness anomalies in the North Pacific. *Geophysical Research Letters*, **37**, L07708, <http://dx.doi.org/10.1029/2010GL042716>
- Sato, N., K. Yoneyama, Y. N. Takayabu, R. Shirooka, and M. Yoshizaki, 2010: Variability of the oceanic surface and subsurface layers in the warm pool associated with the atmospheric northward-propagating intraseasonal variability. *Deep Sea Research Part II: Topical Studies in Oceanography*, **57**, 1201-1211, <http://dx.doi.org/10.1016/j.dsr2.2009.12.009>
- Schiller, A., S. E. Wijffels, J. Sprintall, R. Molcard, and P. R. Oke, 2010: Pathways of intraseasonal variability in the Indonesian Throughflow region. *Dynamics of Atmospheres and Oceans*, **50**, 174-200, <http://dx.doi.org/10.1016/j.dynatmoce.2010.02.003>
- Sekiguchi, H. and N. Inoue, 2010: Larval recruitment and fisheries of the spiny lobster *Panulirus japonicus* coupling with the Kuroshio subgyre circulation in the western North Pacific: a review. *Journal of the marine biology association of India*, **52**, 195-207,
- Sharma, R., N. Agarwal, I. M. Momin, and V. K. Agarwal, 2010: Mixed Layer Depth and its Variability in the Eastern Equatorial Indian Ocean as Revealed by Observations and Model Simulations. *Marine Geodesy*, **33**, 154-163, <http://dx.doi.org/10.1080/01490419.2010.492281>
- Sharma, R., N. Agarwal, I. M. Momin, S. Basu, and V. K. Agarwal, 2010: Simulated Sea Surface Salinity Variability in the Tropical Indian Ocean. *Journal of Climate*, **23**, 6542-6554, <http://dx.doi.org/10.1175/2010jcli3721.1>
- Sloyan, B. M., L. D. Talley, T. K. Chereskin, R. Fine, and J. Holte, 2010: Antarctic Intermediate Water and Subantarctic Mode Water Formation in the Southeast Pacific: The Role of Turbulent Mixing. *Journal of Physical Oceanography*, **40**, 1558-1574, <http://dx.doi.org/10.1175/2010jpo4114.1>
- Smith, G. C., K. Haines, T. Kanzow, and S. Cunningham, 2010: Impact of hydrographic data assimilation on the modelled Atlantic meridional overturning circulation. *Ocean Science*, **6**, 761-774, <http://dx.doi.org/10.5194/os-6-761-2010>
- Snowden, D., M. Belbeoch, B. Burnett, T. Carval, J. Graybeal, T. Habermann, H. M. Snaith, H. Viola, and S. Woodruff, 2010: Metadata Management in Global Distributed Ocean Observation Networks. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.84>.
- Steinhoff, T., T. Friedrich, S. E. Hartman, A. Oschlies, D. W. R. Wallace, and A. Körtzinger, 2010: Estimating mixed layer nitrate in the North Atlantic Ocean. *Biogeosciences*, **7**, 795-807, <http://dx.doi.org/10.5194/bg-7-795-2010>
- Su, J., R. Zhang, T. Li, X. Rong, J.-S. Kug, and C.-C. Hong, 2010: Causes of the El Niño and La Niña Amplitude Asymmetry in the Equatorial Eastern Pacific. *Journal of Climate*, **23**, 605-617, <http://dx.doi.org/10.1175%2F2009JCLI2894.1>
- Suga, T., 2010: Argo: Its Accomplishment and Potential. *Tenki*, **57**, 762-767,

- Suga, T., 2010: Influence of subtropical mode waters on primary production. *Aquabiology*, **32**, 218-225,
- Suga, T., 2010: Overview of OceanObs'09 and the future of Argo. *Kaiyo Monthly*, **42**, 609-613,
- Suga, T., 2010: Strategic Ocean Monitoring Research: An Approach to Expanding Argo. *Kaiyo Monthly*, **42**, 654-657,
- Suga, T., C. Sukigara, T. Saino, K. Toyama, D. Yanagimoto, K. Hanawa, and N. Shikama, 2010: Physical-Biogeochemical Study Using a Profiling Float: Subsurface Primary Production in the Subtropical North Pacific. *In Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Annex)*, Venice, Italy, J. Hall, D. E. Harrison, and D. Stammer, ESA Publication, <http://dx.doi.org/10.5270/OceanObs09>
- Sugimoto, S. and K. Hanawa, 2010: Impact of Aleutian Low activity on the STMW formation in the Kuroshio recirculation gyre region. *Geophysical Research Letters*, **37**, L03606, <http://dx.doi.org/10.1029/2009GL041795>
- Sukigara, C., K. Toyama, and T. Suga, 2010: Physical processes from biogeochemical data observed by an Argo float. *Kaiyo Monthly*, **42**, 638-642,
- Sun, C., A. Thresher, R. Keeley, N. Hall, M. Hamilton, P. Chinn, A. Tran, G. Goni, L. Petit de la Villeon, T. Carval, L. Cowen, G. M. R. Manzella, V. V. Gopalakrishna, R. Guerro, F. Reseghetti, Y. Kanno, B. Klein, L. Rickards, A. Baldoni, S. Lin, F. Ji, and Y. Nagaya, 2010: The Data Management System for the Global Temperature and Salinity Profile Programme. *Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society*, J. Hall, D. E. Harrison, and D. Stammer, Eds., ESA Publication, <http://dx.doi.org/10.5270/OceanObs09.cwp.86>.
- Swart, S. and S. Speich, 2010: An altimetry-based gravest empirical mode south of Africa: 2. Dynamic nature of the Antarctic Circumpolar Current fronts. *Journal of Geophysical Research: Oceans*, **115**, C03003, <http://dx.doi.org/10.1029/2009JC005300>
- Swart, S., S. Speich, I. J. Ansorge, and J. R. E. Lutjeharms, 2010: An altimetry-based gravest empirical mode south of Africa: 1. Development and validation. *Journal of Geophysical Research: Oceans*, **115**, C03002, <http://dx.doi.org/10.1029/2009JC005299>
- Taillandier, V., S. Dobricic, P. Testor, N. Pinardi, A. Griffa, L. Mortier, and G. P. Gasparini, 2010: Integration of Argo trajectories in the Mediterranean Forecasting System and impact on the regional analysis of the western Mediterranean circulation. *Journal of Geophysical Research: Oceans*, **115**, 17, <http://dx.doi.org/10.1029/2008jc005251>
- Talone, M., R. Sabia, A. Camps, M. Vall-Ilossera, C. Gabarru, and J. Font, 2010: Sea surface salinity retrievals from HUT-2D L-band radiometric measurements. *Remote Sensing of Environment*, **114**, 1756-1764, <http://dx.doi.org/10.1016/j.rse.2010.03.006>
- Tanguy, Y., S. Arnault, and P. Lattes, 2010: Isothermal, mixed, and barrier layers in the subtropical and tropical Atlantic Ocean during the ARAMIS experiment. *Deep Sea Research Part I: Oceanographic Research Papers*, **57**, 501-517, <http://dx.doi.org/10.1016/j.dsr.2009.12.012>
- Thresher, R. E., N. C. Wilson, C. M. MacRae, and H. Neil, 2010: Temperature effects on the calcite skeletal composition of deep-water gorgonians (Isididae). *Geochimica et*

- Cosmochimica Acta*, **74**, 4655-4670, <http://dx.doi.org/10.1016/j.gca.2010.05.024>
- Tomita, H., S. i. Kako, M. F. Cronin, and M. Kubota, 2010: Preconditioning of the wintertime mixed layer at the Kuroshio Extension Observatory. *J. Geophys. Res.*, **115**, C12053, <http://dx.doi.org/10.1029/2010JC006373>
- Toyama, K. and T. Suga, 2010: Vertical structure of North Pacific mode waters. *Deep Sea Research Part II: Topical Studies in Oceanography*, **57**, 1152-1160, <http://dx.doi.org/10.1016/j.dsr2.2009.12.004>
- Tsubouchi, T., T. Suga, and K. Hanawa, 2010: Indian Ocean Subtropical Mode Water: its water characteristics and spatial distribution. *Ocean Science*, **6**, 41-50, <http://dx.doi.org/10.5194/os-6-41-2010>
- Ullgren, J. E. and M. White, 2010: Water mass interaction at intermediate depths in the southern Rockall Trough, northeastern North Atlantic. *Deep Sea Research Part I: Oceanographic Research Papers*, **57**, 248-257, <http://dx.doi.org/10.1016/j.dsr.2009.11.005>
- van Wijk, E. M., S. R. Rintoul, B. M. Ronai, and G. D. Williams, 2010: Regional circulation around Heard and McDonald Islands and through the Fawn Trough, central Kerguelen Plateau. *Deep Sea Research Part I: Oceanographic Research Papers*, **57**, 653-669, <http://dx.doi.org/10.1016/j.dsr.2010.03.001>
- Velez-Belchi, P., A. Hernandez-Guerra, E. Fraile-Nuez, and V. Benitez-Barrios, 2010: Changes in Temperature and Salinity Tendencies of the Upper Subtropical North Atlantic Ocean at 24.5 degrees N. *Journal of Physical Oceanography*, **40**, 2546-2555, <http://dx.doi.org/10.1175/2010jpo4410.1>
- Venables, H. and C. M. Moore, 2010: Phytoplankton and light limitation in the Southern Ocean: Learning from high-nutrient, high-chlorophyll areas. *J. Geophys. Res.*, **115**, C02015, <http://dx.doi.org/10.1029/2009JC005361>
- Vianna, M. L., V. V. Menezes, A. B. Pezza, and I. Simmonds, 2010: Interactions between Hurricane Catarina (2004) and warm core rings in the South Atlantic Ocean. *Journal of Geophysical Research: Oceans*, **115**, 19, <http://dx.doi.org/10.1029/2009jc005974>
- Vivier, F., D. Iudicone, F. Busdraghi, and Y.-H. Park, 2010: Dynamics of sea-surface temperature anomalies in the Southern Ocean diagnosed from a 2D mixed-layer model. *Climate Dynamics*, **34**, 153-184, <http://dx.doi.org/10.1007/s00382-009-0724-3>
- Voet, G., D. Quadfasel, K. A. Mork, and H. Soiland, 2010: The mid-depth circulation of the Nordic Seas derived from profiling float observations. *Tellus Series a-Dynamic Meteorology and Oceanography*, **62**, 516-529, <http://dx.doi.org/10.1111/j.1600-0870.2010.00444.x>
- Walsh, K. J. E., P. Sandery, G. B. Brassington, M. Entel, C. Siegenthaler-LeDrian, J. D. Kepert, and R. Darbyshire, 2010: Constraints on drag and exchange coefficients at extreme wind speeds. *Journal of Geophysical Research: Oceans*, **115**, <https://doi.org/10.1029/2009JC005876>
- Wan, L. Y., L. Bertino, and J. Zhu, 2010: Assimilating Altimetry Data into a HYCOM Model of the Pacific: Ensemble Optimal Interpolation versus Ensemble Kalman Filter. *Journal of Atmospheric and Oceanic Technology*, **27**, 753-765, <http://dx.doi.org/10.1175/2009jtecho626.1>

- Wang, W., M. Chen, and A. Kumar, 2010: An Assessment of the CFS Real-Time Seasonal Forecasts. *Weather and Forecasting*, **25**, 950-969, <http://dx.doi.org/10.1175/2010WAF2222345.1>
- Williams, A., F. Althaus, P. K. Dunstan, G. C. B. Poore, N. J. Bax, R. J. Kloser, and F. R. McEnnulty, 2010: Scales of habitat heterogeneity and megabenthos biodiversity on an extensive Australian continental margin (100-1100 m depths). *Marine Ecology-an Evolutionary Perspective*, **31**, 222-236, <http://dx.doi.org/10.1111/j.1439-0485.2009.00355.x>
- Willis, J. K., 2010: Can in situ floats and satellite altimeters detect long-term changes in Atlantic Ocean overturning? *Geophysical Research Letters*, **37**, L06602, <http://dx.doi.org/10.1029/2010GL042372>
- Willis, J. K., D. P. Chambers, C. Y. Kuo, and C. K. Shum, 2010: Global Sea Level Rise RECENT PROGRESS AND CHALLENGES FOR THE DECADE TO COME. *Oceanography*, **23**, 26-35, <http://dx.doi.org/10.5670/oceanog.2010.03>
- Wu, X. F. and J. P. Xu, 2010: A summary of upper ocean heat content in the tropical western Pacific and its distribution features, variations and observations (in Chinese). *Journal of Marine Science*, **28**, 46-54,
- Wunsch, C., 2010: Variability of the Indo-Pacific Ocean exchanges. *Dynamics of Atmospheres and Oceans*, **50**, 157-173, <http://dx.doi.org/10.1016/j.dynatmoce.2009.12.001>
- Xie, J. P. and J. Zhu, 2010: Ensemble optimal interpolation schemes for assimilating Argo profiles into a hybrid coordinate ocean model. *Ocean Modelling*, **33**, 283-298, <http://dx.doi.org/10.1016/j.ocemod.2010.03.002>
- Xu, J. P., 2010: A Collection of Papers on the Observation and Application of Argo profiling floats in the West Pacific Ocean (in Chinese). *Ocean Press*, 344,
- Xu, L., P. Zhang, J. Xu, S. Wu, G. Han, and D. Xu, 2010: Conflict Analysis of Multi-source SST Distribution. *High Performance Computing and Applications*, 479-484, http://dx.doi.org/10.1007/978-3-642-11842-5_66.
- Xu, X. H., G. H. Liao, and D. F. Xu, 2010: Analysis of the Anticyclone eddy in the Northwest Pacific with Argo Drifter Data (in Chinese). *Journal of Marine Science* **28**, 1-13,
- Xue, Y., B. Huang, Z.-Z. Hu, A. Kumar, C. Wen, D. Behringer, and S. Nadiga, 2010: An assessment of oceanic variability in the NCEP climate forecast system reanalysis. *Climate Dynamics*, **37**, 2511-2539, <http://dx.doi.org/10.1007/s00382-010-0954-4>
- Yan, Y., Y. Qi, and W. Zhou, 2010: Interannual heat content variability in the South China Sea and its response to ENSO. *Dynamics of Atmospheres and Oceans*, **50**, 400-414, <http://dx.doi.org/10.1016/j.dynatmoce.2010.07.002>
- Yang, S.-C., M. Rienecker, and C. Keppenne, 2010: The Impact of Ocean Data Assimilation on Seasonal-to-Interannual Forecasts: A Case Study of the 2006 El Nino Event. *Journal of Climate*, **23**, 4080-4095, <http://dx.doi.org/10.1175/2010JCLI3319.1>
- Yang, S. L., G. F. Zhou, and W. F. Zhou, 2010: The relationship between skipjack *Katsuwonus pelamis* catch and water temperature and surface salinity in the west-central Pacific Ocean based on Argo data (in Chinese). *Journal of Dalian Fisheries University*, **25**, 34-40,
- Yang, Y. J., Y. F. Fu, and L. Sun, 2010: Responses of the upper ocean to Typhoon Tingting observed from multiplatform satellites and Argo float (in Chinese). *Journal of*

- university of science and technology of China*, **40**, 1-7,
- Yang, Y. J., L. A. Sun, Q. Liu, T. Xian, and Y. F. Fu, 2010: The biophysical responses of the upper ocean to the typhoons Namtheun and Malou in 2004. *International Journal of Remote Sensing*, **31**, 4559-4568, <http://dx.doi.org/10.1080/01431161.2010.485140>
- Yin, X., F. Qiao, Y. Yang, and C. Xia, 2010: An ensemble adjustment Kalman filter study for Argo data. *Chinese Journal of Oceanology and Limnology*, **28**, 626-635, <http://dx.doi.org/10.1007/s00343-010-9017-2>
- Yin, X. Q., F. L. Qiao, and C. S. Xia, 2010: The Compare of the Temperature in Gulf of Aden between model forecast and Argo Profiling Data (in Chinese). *Advance in Marine Science*, **28**, 42-48,
- You, Y., 2010: Thermocline circulation and ventilation of the Japan/East Sea, part II: A source water-mass mixing (SWAM) model. *Deep Sea Research Part I: Oceanographic Research Papers*, **57**, 1049-1078, <http://dx.doi.org/10.1016/j.dsr.2010.05.001>
- You, Y., K.-I. Chang, J.-Y. Yun, and K.-R. Kim, 2010: Thermocline circulation and ventilation of the East/Japan Sea, part I: Water-mass characteristics and transports. *Deep Sea Research Part II: Topical Studies in Oceanography*, **57**, 1221-1246, <http://dx.doi.org/10.1016/j.dsr2.2009.12.011>
- Yu, T., G. J. Han, C. L. Guan, and Z. G. Deng, 2010: Several Important Issues in Salinity Quality Control of Argo Float. *Marine Geodesy*, **33**, 424-436, <http://dx.doi.org/10.1080/01490419.2010.518496>
- Zeng, L. L., D. X. Wang, Y. Du, and P. Shi, 2010: Mesoscale structure of the central South China Sea detected by SCSMEX Buoy and Argo float. *Chinese Journal of Oceanology and Limnology*, **28**, 1102-1111, <http://dx.doi.org/10.1007/s00343-010-0146-4>
- Zhang, S. and A. Rosati, 2010: An Inflated Ensemble Filter for Ocean Data Assimilation with a Biased Coupled GCM. *Monthly Weather Review*, **138**, 3905-3931, <http://dx.doi.org/10.1175/2010MWR3326.1>
- Zhang, S., A. Rosati, and T. Delworth, 2010: The Adequacy of Observing Systems in Monitoring the Atlantic Meridional Overturning Circulation and North Atlantic Climate. *Journal of Climate*, **23**, 5311-5324, <http://dx.doi.org/10.1175/2010jcli3677.1>
- Zhang, S. M., Y. M. Wu, and S. L. Yang, 2010: Analysis of Spatial Distribution and Change about Argo Floats Observation Numbers (in Chinese). *Ocean Technology*, **29**, 108-114,
- Zhang, X. and M. J. McPhaden, 2010: Surface Layer Heat Balance in the Eastern Equatorial Pacific Ocean on Interannual Time Scales: Influence of Local versus Remote Wind Forcing. *Journal of Climate*, **23**, 4375-4394, <http://dx.doi.org/10.1175/2010JCLI3469.1>
- Zheng, Y., T. Shinoda, G. N. Kiladis, J. Lin, E. J. Metzger, H. E. Hurlburt, and B. S. Giese, 2010: Upper-Ocean Processes under the Stratus Cloud Deck in the Southeast Pacific Ocean. *Journal of Physical Oceanography*, **40**, 103-120, <http://dx.doi.org/10.1175%2F2009JPO4213.1>
- Zhou, H., D. L. Yuan, P. F. Guo, M. C. Shi, and Q. L. Zhang, 2010: Meso-scale circulation at the intermediate-depth east of Mindanao observed by Argo profiling floats. *Science China-Earth Sciences*, **53**, 432-440, <http://dx.doi.org/10.1007/s11430-009-0196-7>
- Zhou, H., D. L. Yuan, R. X. Li, and L. He, 2010: The western South China Sea currents from

measurements by Argo profiling floats during October to December 2007. *Chinese Journal of Oceanology and Limnology*, **28**, 398-406,
<http://dx.doi.org/10.1007/s00343-010-9052-z>

Zika, J. D., T. J. McDougall, and B. M. Sloyan, 2010: Weak Mixing in the Eastern North Atlantic: An Application of the Tracer-Contour Inverse Method. *Journal of Physical Oceanography*, **40**, 1881-1893, <http://dx.doi.org/10.1175/2010JPO4360.1>

2009 (121)

Aarestrup, K., F. Økland, M. M. Hansen, D. Righton, P. Gargan, M. Castonguay, L. Bernatchez, P. Howey, H. Sparholt, M. I. Pedersen, and R. S. McKinley, 2009: Oceanic Spawning Migration of the European Eel (*Anguilla anguilla*). *Science*, **325**, 1660,
<http://dx.doi.org/10.1126/science.1178120>

Baehr, J., S. Cunningham, H. Haak, P. Heimbach, T. Kanzow, and J. Marotzke, 2009: Observed and simulated estimates of the meridional overturning circulation at 26.5 N in the Atlantic. *Ocean Science*, **5**, 575-589,
<http://dx.doi.org/10.5194/os-5-575-2009>

Ballabrera-Poy, J., B. Mourre, E. Garcia-Ladona, A. Turiel, and J. Font, 2009: Linear and non-linear T-S models for the eastern North Atlantic from Argo data: Role of surface salinity observations. *Deep Sea Research Part I: Oceanographic Research Papers*, **56**, 1605-1614, <https://doi.org/10.1016/j.dsr.2009.05.017>

Balmaseda, M. and D. Anderson, 2009: Impact of initialization strategies and observations on seasonal forecast skill. *Geophysical Research Letters*, **36**,
<http://dx.doi.org/10.1029/2008gl035561>

Bell, M. J., M. Lefebvre, P. Y. Le Traon, N. Smith, and K. Wilmer-Becker, 2009: GODAE The Global Ocean Data Assimilation Experiment. *Oceanography*, **22**, 14-21,
<http://dx.doi.org/10.5670/oceanog.2009.62>

Bhaskar, T. V. S. U., S. H. Rahman, I. D. Pavan, M. Ravichandran, and S. Nayak, 2009: Comparison of AMSR-E and TMI sea surface temperature with Argo near-surface temperature over the Indian Ocean. *International Journal of Remote Sensing*, **30**, 2669-2684, <http://dx.doi.org/10.1080/01431160802555796>

Bishop, J. K. B., 2009: Autonomous Observations of the Ocean Biological Carbon Pump. *Oceanography*, **22**, 182-193, <http://dx.doi.org/10.5670/oceanog.2009.48>

Bishop, J. K. B. and T. J. Wood, 2009: Year-round observations of carbon biomass and flux variability in the Southern Ocean. *Global Biogeochemical Cycles*, **23**,
<http://dx.doi.org/10.1029/2008GB003206>

Bosc, C., T. Delcroix, and C. Maes, 2009: Barrier layer variability in the western Pacific warm pool from 2000 to 2007. *Journal of Geophysical Research: Oceans*, **114**, 14,
<http://dx.doi.org/10.1029/2008jc005187>

Boutin, J. and L. Merlivat, 2009: New in situ estimates of carbon biological production rates in the Southern Ocean from CARIOCA drifter measurements. *Geophysical Research Letters*, **36**, 6, <http://dx.doi.org/10.1029/2009gl038307>

Brasseur, P., N. Gruber, R. Barciela, K. Brander, M. Doron, A. El Moussaoui, A. J. Hobday, M. Huret, A. S. Kremer, P. Lehodey, R. Matear, C. Moulin, R. Murtugudde, I. Senina, and

- E. Svendsen, 2009: Integrating Biogeochemistry and Ecology Into Ocean Data Assimilation Systems. *Oceanography*, **22**, 206-215, <http://dx.doi.org/10.5670/oceanog.2009.80>
- Brassington, G. B. and P. Divakaran, 2009: The theoretical impact of remotely sensed sea surface salinity observations in a multi-variate assimilation system. *Ocean Modelling*, **27**, 70-81, <http://dx.doi.org/10.1016/j.ocemod.2008.12.005>
- Cazenave, A., and W. Llovel (2009), Contemporary Sea Level Rise, *Annual Review of Marine Science*, 2(1), 145-173, doi: <https://doi.org/10.1146/annurev-marine-120308-081105>.
- Cai, W., A. Pan, D. Roemmich, T. Cowan, and X. Guo, 2009: Argo profiles a rare occurrence of three consecutive positive Indian Ocean Dipole events, 2006-2008. *Geophysical Research Letters*, **36**, <http://dx.doi.org/10.1029/2008gl037038>
- Cazenave, A., K. Dominh, S. Guinehut, E. Berthier, W. Llovel, G. Ramillien, M. Ablain, and G. Larnicol, 2009: Sea level budget over 2003-2008: A reevaluation from GRACE space gravimetry, satellite altimetry and Argo. *Global and Planetary Change*, **65**, 83-88, <http://dx.doi.org/10.1016/j.gloplacha.2008.10.004>
- Chang, Y.-S., A. J. Rosati, S. Zhang, and M. J. Harrison, 2009: Objective analysis of monthly temperature and salinity for the world ocean in the 21st century: Comparison with World Ocean Atlas and application to assimilation validation. *Journal of Geophysical Research: Oceans*, **114**, <http://dx.doi.org/10.1029/2008jc004970>
- Chowdary, J. S., C. Gnanaseelan, and S. P. Xie, 2009: Westward propagation of barrier layer formation in the 2006-07 Rossby wave event over the tropical southwest Indian Ocean. *Geophysical Research Letters*, **36**, <http://dx.doi.org/10.1029/2008gl036642>
- Ciasto, L. M. and D. W. J. Thompson, 2009: Observational Evidence of Reemergence in the Extratropical Southern Hemisphere. *Journal of Climate*, **22**, 1446-1453, <http://dx.doi.org/10.1175/2008jcli2545.1>
- Clark, C. and S. Wilson, 2009: An Overview of Global Observing Systems Relevant to GODAE. *Oceanography*, **22**, 22-33, <http://dx.doi.org/10.5670/oceanog.2009.63>
- Cravatte, S., T. Delcroix, D. Zhang, M. McPhaden, and J. Leloup, 2009: Observed freshening and warming of the western Pacific Warm Pool. *Climate Dynamics*, **33**, 565-589, <http://dx.doi.org/10.1007/s00382-009-0526-7>
- Cummings, J. A., L. Bertino, P. Brasseur, I. Fukumori, M. Kamachi, M. J. Martin, K. Mogensen, P. Oke, C. E. Testut, J. Verron, and A. Weaver, 2009: OCEAN DATA ASSIMILATION SYSTEMS FOR GODAE. *Oceanography*, **22**, 96-109, <http://dx.doi.org/10.5670/oceanog.2009.69>
- Daget, N., A. T. Weaver, and M. A. Balmaseda, 2009: Ensemble estimation of background-error variances in a three-dimensional variational data assimilation system for the global ocean. *Quarterly Journal of the Royal Meteorological Society*, **135**, 1071-1094, <http://dx.doi.org/10.1002/qj.412>
- Di Iorio, D. and C. Sloan, 2009: Upper ocean heat content in the Nordic seas. *Journal of Geophysical Research: Oceans*, **114**, <http://dx.doi.org/10.1029/2007jc004674>
- Dobricic, S., 2009: A Sequential Variational Algorithm for Data Assimilation in Oceanography and Meteorology. *Monthly Weather Review*, **137**, 269-287, <http://dx.doi.org/10.1175/2008mwr2500.1>
- Dombrowsky, E., L. Bertino, G. B. Brassington, E. P. Chassignet, F. Davidson, H. E. Hurlburt, M.

- Kamachi, T. Lee, M. J. Martin, S. Mei, and M. Tonani, 2009: GODAE Systems in Operation. *Oceanography*, **22**, 80-95, <http://dx.doi.org/10.5670/oceanog.2009.68>
- Dong, S., S. L. Garzoli, and M. Baringer, 2009: An assessment of the seasonal mixed layer salinity budget in the Southern Ocean. *J. Geophys. Res.*, **114**, C12001, <http://dx.doi.org/10.1029/2008JC005258>
- Douglass, D. H. and R. S. Knox, 2009: Ocean heat content and Earth's radiation imbalance. *Physics Letters A*, **373**, 3296-3300, <http://dx.doi.org/10.1016/j.physleta.2009.07.023>
- Douglass, E., D. Roemmich, and D. Stammer, 2009: Data Sensitivity of the ECCO State Estimate in a Regional Setting. *Journal of Atmospheric and Oceanic Technology*, **26**, 2420-2443, <http://dx.doi.org/10.1175/2009jtecho641.1>
- Downes, S. M., N. L. Bindoff, and S. R. Rintoul, 2009: Impacts of Climate Change on the Subduction of Mode and Intermediate Water Masses in the Southern Ocean. *Journal of Climate*, **22**, 3289-3302, <http://dx.doi.org/10.1175/2008JCLI2653.1>
- Duncan, B. and W. Han, 2009: Indian Ocean intraseasonal sea surface temperature variability during boreal summer: Madden-Julian Oscillation versus submonthly forcing and processes. *J. Geophys. Res.*, **114**, <http://dx.doi.org/10.1029/2008JC004958>
- Dunn, M. R., G. J. Rickard, P. J. H. Sutton, and I. J. Doonan, 2009: Nursery grounds of the orange roughy around New Zealand. *ICES Journal of Marine Science: Journal du Conseil*, **66**, 871-885, <http://dx.doi.org/10.1093/icesjms/fsp093>
- Dushaw, B. D., P. F. Worcester, W. H. Munk, R. C. Spindel, J. A. Mercer, B. M. Howe, K. Metzger, T. G. Birdsall, R. K. Andrew, M. A. Dzieciuch, B. D. Cornuelle, and D. Menemenlis, 2009: A decade of acoustic thermometry in the North Pacific Ocean. *Journal of Geophysical Research-Oceans*, **114**, <http://dx.doi.org/10.1029/2008JC005124>
- Freeland, H. J. and D. Gilbert, 2009: Estimate of the Steric Contribution to Global Sea Level Rise from a Comparison of the WOCE One-Time Survey with 2006-2008 Argo Observations. *Atmosphere-Ocean*, **47**, 292-298, <http://dx.doi.org/10.3137/oc312.2009>
- Friedrich, T. and A. Oschlies, 2009: Basin-scale pCO₂ maps estimated from ARGO float data: A model study. *Journal of Geophysical Research: Oceans*, **114**, 9, <http://dx.doi.org/10.1029/2009jc005322>
- Funk, A., P. Brandt, and T. Fischer, 2009: Eddy diffusivities estimated from observations in the Labrador Sea. *Journal of Geophysical Research: Oceans*, **114**, 11, <http://dx.doi.org/10.1029/2008jc005098>
- Gaillard, F., E. Autret, V. Thierry, P. Galaup, C. Coatanoan, and T. Loubrieu, 2009: Quality Control of Large Argo Datasets. *Journal of Atmospheric and Oceanic Technology*, **26**, 337-351, <http://dx.doi.org/10.1175/2008jtecho552.1>
- Gemmell, A. L., G. C. Smith, K. Haines, and J. D. Blower, 2009: Validation of ocean model syntheses against hydrography using a new web application. *Journal of Operational Oceanography*, **2**, 29-41, <http://www.ingentaconnect.com/content/tandf/joo/2009/00000002/00000002/art00003>
- Guinehut, S., C. Coatanoan, A. L. Dhomps, P. Y. Le Traon, and G. Larnicol, 2009: On the Use of Satellite Altimeter Data in Argo Quality Control. *Journal of Atmospheric and*

- Oceanic Technology*, **26**, 395-402, <http://dx.doi.org/10.1175/2008jtecho648.1>
- Henson, S. A., J. P. Dunne, and J. L. Sarmiento, 2009: Decadal variability in North Atlantic phytoplankton blooms. *J. Geophys. Res.*, **114**, <http://dx.doi.org/10.1029/2008JC005139>
- Higginson, S., K. R. Thompson, and Y. Liu, 2009: Estimating ocean climatologies for short periods: A simple technique for removing the effect of eddies from temperature and salinity profiles. *Geophysical Research Letters*, **36**, 4, <http://dx.doi.org/10.1029/2009gl039647>
- Holte, J. and L. Talley, 2009: A New Algorithm for Finding Mixed Layer Depths with Applications to Argo Data and Subantarctic Mode Water Formation. *Journal of Atmospheric and Oceanic Technology*, **26**, 1920-1939, <http://dx.doi.org/10.1175/2009jtecho543.1>
- Hosoda, S., T. Suga, N. Shikama, and K. Mizuno, 2009: Global Surface Layer Salinity Change Detected by Argo and Its Implication for Hydrological Cycle Intensification. *Journal of Oceanography*, **65**, 579-586, <http://dx.doi.org/10.1007/s10872-009-0049-1>
- Hurlburt, H. E., G. B. Brassington, Y. Drillet, M. Kamachi, M. Benkiran, R. Bourdalle-Badie, E. P. Chassignet, G. A. Jacobs, O. Le Galloudec, J. M. Lellouche, E. J. Metzger, P. R. Oke, T. F. Pugh, A. Schiller, O. M. Smedstad, B. Tranchant, H. Tsujino, N. Usui, and A. J. Wallcraft, 2009: High-Resolution Global and Basin-Scale Ocean Analyses and Forecasts. *Oceanography*, **22**, 110-127, <http://dx.doi.org/10.5670/oceanog.2009.70>
- Ishii, M. and M. Kimoto, 2009: Reevaluation of historical ocean heat content variations with time-varying XBT and MBT depth bias corrections. *Journal of Oceanography*, **65**, 287-299, <http://dx.doi.org/10.1007/s10872-009-0027-7>
- Jackson, J. M., P. G. Myers, and D. Ianson, 2009: An Examination of Mixed Layer Sensitivity in the Northeast Pacific Ocean from July 2001-July 2005 Using the General Ocean Turbulence Model and Argo Data. *Atmosphere-Ocean*, **47**, 139-153, <http://dx.doi.org/10.3137/oc308.2009>
- Janout, M. A., T. J. Weingartner, S. R. Okkonen, T. E. Whitley, and D. L. Musgrave, 2009: Some characteristics of Yakutat Eddies propagating along the continental slope of the northern Gulf of Alaska. *Deep Sea Research Part II: Topical Studies in Oceanography*, **56**, 2444-2459, <http://dx.doi.org/10.1016/j.dsr2.2009.02.006>
- Jayne, S. R., N. G. Hogg, S. N. Waterman, L. Rainville, K. A. Donohue, D. R. Watts, K. L. Tracey, J. L. McClean, M. E. Maltrud, B. Qiu, S. M. Chen, and P. Hacker, 2009: The Kuroshio Extension and its recirculation gyres. *Deep Sea Research Part I: Oceanographic Research Papers*, **56**, 2088-2099, <http://dx.doi.org/10.1016/j.dsr.2009.08.006>
- Johnson, G. C. and K. A. Kearney, 2009: Ocean climate change fingerprints attenuated by salt fingering? *Geophysical Research Letters*, **36**, <http://dx.doi.org/10.1029/2009GL040697>
- Johnson, G. C. and J. M. Lyman, 2009: Global Oceans: Sea Surface Salinity. In State of the Climate in 2008. *Bulletin of the American Meteorological Society*, **90**, S1-S196, <http://dx.doi.org/10.1175/BAMS-90-8-StateoftheClimate>
- Johnson, G. C., J. M. Lyman, J. Willis, S. Levitus, T. P. Boyer, J. I. Antonov, C. Schmid, and G. J. Goni, 2009: Global Oceans: Ocean Heat Content. In the State of the Climate in 2008. *Bulletin of the American Meteorological Society*, **90**, S1-S196,

- <http://dx.doi.org/10.1175/BAMS-90-8-StateoftheClimate>
- Johnson, K. S., W. M. Berelson, E. S. Boss, Z. Chase, H. Claustre, S. R. Emerson, N. Gruber, A. Kortzinger, M. J. Perry, and S. C. Riser, 2009: Observing Biogeochemical Cycles at Global Scales with Profiling Floats and Gliders Prospects for a Global Array. *Oceanography*, **22**, 216-225, <http://dx.doi.org/10.5670/oceanog.2009.81>
- Kamenkovich, I., W. Cheng, E. S. Sarachik, and D. E. Harrison, 2009: Simulation of the Argo observing system in an ocean general circulation model. *Journal of Geophysical Research: Oceans*, **114**, 16, <http://dx.doi.org/10.1029/2008jc005184>
- Kara, A. B., R. W. Helber, T. P. Boyer, and J. B. Elsner, 2009: Mixed layer depth in the Aegean, Marmara, Black and Azov Seas: Part I: General features. *Journal of Marine Systems*, **78**, S169-S180, <http://dx.doi.org/10.1016/j.jmarsys.2009.01.022>
- Kieke, D., B. Klein, L. Stramma, M. Rhein, and K. P. Koltermann, 2009: Variability and propagation of Labrador Sea Water in the southern subpolar North Atlantic. *Deep Sea Research Part I: Oceanographic Research Papers*, **56**, 1656-1674, <http://dx.doi.org/10.1016/j.dsr.2009.05.010>
- Kim, Y. H., K.-I. Chang, J. J. Park, S. K. Park, S.-H. Lee, Y.-G. Kim, K. T. Jung, and K. Kim, 2009: Comparison between a reanalyzed product by 3-dimensional variational assimilation technique and observations in the Ulleung Basin of the East/Japan Sea. *Journal of Marine Systems*, **78**, 249-264, <http://dx.doi.org/10.1016/j.jmarsys.2009.02.017>
- Kirchner, K., M. Rhein, S. Huttel-Kabus, and C. W. Boning, 2009: On the spreading of South Atlantic Water into the Northern Hemisphere. *Journal of Geophysical Research: Oceans*, **114**, 12, <http://dx.doi.org/10.1029/2008jc005165>
- Kobayashi, T., B. King, and N. Shikama, 2009: An estimation of the average lifetime of the latest model of APEX floats. *Journal of Oceanography*, **65**, 81-89, <http://dx.doi.org/10.1007/s10872-009-0008-x>
- Kobayashi, T., T. Namakura, S. Minato, and N. Shikama, 2009: The problem of pressure bias of Argo data and its effect. *Oceanography in Japan*, **18**, 351-391,
- Korres, G., K. Nittis, I. Hoteit, and G. Triantafyllou, 2009: A high resolution data assimilation system for the Aegean Sea hydrodynamics. *Journal of Marine Systems*, **77**, 325-340, <http://dx.doi.org/10.1016/j.jmarsys.2007.12.014>
- Lankhorst, M., D. Fratantoni, M. Ollitrault, P. Richardson, U. Send, and W. Zenk, 2009: The mid-depth circulation of the northwestern tropical Atlantic observed by floats. *Deep Sea Research Part I: Oceanographic Research Papers*, **56**, 1615-1632, <http://dx.doi.org/10.1016/j.dsr.2009.06.002>
- Le Hénaff, M., P. De Mey, and P. Marsaleix, 2009: Assessment of observational networks with the Representer Matrix Spectra method-application to a 3D coastal model of the Bay of Biscay. *Ocean Dynamics*, **59**, 3-20, <http://dx.doi.org/10.1007/s10236-008-0144-7>
- Le Traon, P. Y., G. Larnicol, S. Guinehut, S. Pouliquen, A. Bentamy, D. Roemmich, C. Donlon, H. Roquet, G. Jacobs, D. Griffin, F. Bonjean, N. Hoepffner, and L. A. Breivik, 2009: DATA ASSEMBLY AND PROCESSING FOR Operational Oceanography 10 YEARS OF ACHIEVEMENTS. *Oceanography*, **22**, 56-69, <http://dx.doi.org/10.5670/oceanog.2009.66>
- Lehmann, M. K., K. Fennel, and R. He, 2009: Statistical validation of a 3-D bio-physical model

- of the western North Atlantic. *Biogeosciences*, **6**, 1961-1974, <https://doi.org/10.5194/bg-6-1961-2009>
- Leuliette, E. W. and L. Miller, 2009: Closing the sea level rise budget with altimetry, Argo, and GRACE. *Geophysical Research Letters*, **36**, <http://dx.doi.org/10.1029/2008gl036010>
- Levitus, S., J. I. Antonov, T. P. Boyer, R. A. Locarnini, H. E. Garcia, and A. V. Mishonov, 2009: Global ocean heat content 1955-2008 in light of recently revealed instrumentation problems. *Geophysical Research Letters*, **36**, <http://dx.doi.org/10.1029/2008gl037155>
- Lin, I. I., I. F. Pun, and C. C. Wu, 2009: Upper-Ocean Thermal Structure and the Western North Pacific Category 5 Typhoons. Part II: Dependence on Translation Speed. *Monthly Weather Review*, **137**, 3744-3757, <http://dx.doi.org/10.1175/2009mwr2713.1>
- Liu, Y. M. and K. R. Thompson, 2009: Predicting Mesoscale Variability of the North Atlantic Using a Physically Motivated Scheme for Assimilating Altimeter and Argo Observations. *Monthly Weather Review*, **137**, 2223-2237, <http://dx.doi.org/10.1175/2008mwr2625.1>
- Maze, G., G. Forget, M. Buckley, J. Marshall, and I. Cerovecki, 2009: Using Transformation and Formation Maps to Study the Role of Air-Sea Heat Fluxes in North Atlantic Eighteen Degree Water Formation. *Journal of Physical Oceanography*, **39**, 1818-1835, <http://dx.doi.org/10.1175%2F2009JPO3985.1>
- McPhaden, M. J., G. R. Foltz, T. Lee, V. S. N. Murty, M. Ravichandran, G. A. Vecchi, J. Vialard, J. D. Wiggert, and L. Yu, 2009: Ocean-Atmosphere Interactions During Cyclone Nargis. *EOS*, **90**, <http://dx.doi.org/10.1029/2009EO070001>
- Mertens, C., M. Rhein, M. Walter, and K. Kirchner, 2009: Modulation of the inflow into the Caribbean Sea by North Brazil Current rings. *Deep Sea Research Part I: Oceanographic Research Papers*, **56**, 1057-1076, <http://dx.doi.org/10.1016/j.dsr.2009.03.002>
- Mignot, J., C. de Boyer Montegut, and M. Tomczak, 2009: On the porosity of barrier layers. *Ocean Science*, **5**, 379-387, <http://dx.doi.org/10.5194/os-5-379-2009>
- Naveira Garabato, A. C., L. Jullion, D. P. Stevens, K. J. Heywood, and B. A. King, 2009: Variability of Subantarctic Mode Water and Antarctic Intermediate Water in the Drake Passage during the Late-Twentieth and Early-Twenty-First Centuries. *Journal of Climate*, **22**, 3661-3688, <http://dx.doi.org/10.1175%2F2009JCLI2621.1>
- Nisha, K., S. A. Rao, V. V. Gopalakrishna, R. R. Rao, M. S. Girishkumar, T. Pankajakshan, M. Ravichandran, S. Rajesh, K. Girish, Z. Johnson, M. Anuradha, S. S. M. Gavaskar, V. Suneel, and S. M. Krishna, 2009: Reduced Near-Surface Thermal Inversions in 2005-06 in the Southeastern Arabian Sea (Lakshadweep Sea). *Journal of Physical Oceanography*, **39**, 1184-1199, <http://dx.doi.org/10.1175/2008jpo3879.1>
- Oddo, P., M. Adani, N. Pinardi, C. Fratianni, M. Tonani, and D. Pettenuzzo, 2009: A nested Atlantic-Mediterranean Sea general circulation model for operational forecasting. *Ocean Science*, **5**, 461-473, <http://dx.doi.org/10.5194/os-5-461-2009>
- Ohno, Y., N. Iwasaka, F. Kobashi, and Y. Sato, 2009: Mixed layer depth climatology of the North Pacific based on Argo observations. *Journal of Oceanography*, **65**, 1-16, <http://dx.doi.org/10.1007/s10872-009-0001-4>
- Oka, E., 2009: Seasonal and interannual variation of North Pacific Subtropical Mode Water in

- 2003-2006. *Journal of Oceanography*, **65**, 151-164,
<http://dx.doi.org/10.1007/s10872-009-0015-y>
- Oka, E., K. Toyama, and T. Suga, 2009: Subduction of North Pacific central mode water associated with subsurface mesoscale eddy. *Geophysical Research Letters*, **36**, 4,
<http://dx.doi.org/10.1029/2009gl037540>
- Oke, P. R., M. A. Balmaseda, M. Benkiran, J. A. Cummings, E. Dombrowsky, Y. Fujii, S. Guinehut, G. Larnicol, P. Y. Le Traon, and M. J. Martin, 2009: Observing System Evaluations Using Godae Systems. *Oceanography*, **22**, 144-153,
<http://dx.doi.org/10.5670/oceanog.2009.72>
- Oke, P. R., P. Sakov, and E. Schulz, 2009: A comparison of shelf observation platforms for assimilation in an eddy-resolving ocean model. *Dynamics of Atmospheres and Oceans*, **48**, 121-142, <http://dx.doi.org/10.1016/j.dynatmoce.2009.04.002>
- Owens, W. B. and A. P. S. Wong, 2009: An improved calibration method for the drift of the conductivity sensor on autonomous CTD profiling floats by theta-S climatology. *Deep Sea Research Part I: Oceanographic Research Papers*, **56**, 450-457,
<http://dx.doi.org/10.1016/j.dsr.2008.09.008>
- Palmer, M. D. and K. Haines, 2009: Estimating Oceanic Heat Content Change Using Isotherms. *Journal of Climate*, **22**, 4953-4969,
<http://dx.doi.org/10.1175/2009jcli2823.1>
- Prasad, S., T. Aung, and A. Singh, 2009: Analysis of Water Properties and Geostrophic Currents in Fiji Waters Before and After Tropical Cyclone Gene. *American Journal of Environmental Sciences*, **5**, 455-460, <http://dx.doi.org/10.3844/ajessp.2009.455.460>
- Price, J. F., 2009: Metrics of hurricane-ocean interaction: vertically-integrated or vertically-averaged ocean temperature? *Ocean Science*, **5**, 351-368,
<http://dx.doi.org/10.5194/os-5-351-2009>
- Rao, A. D., M. Joshi, and M. Ravichandran, 2009: Observed low-salinity plume off Gulf of Khambhat, India, during post-monsoon period. *Geophysical Research Letters*, **36**,
<http://dx.doi.org/10.1029/2008gl036091>
- Reddy, N., T. Aung, and A. Singh, 2009: Effect of the 2004 'Boxing Day' Tsunami on Water Properties and Currents in the Bay of Bengal. *American Journal of Environmental Sciences*, **5**, 247-255, <http://dx.doi.org/10.3844/ajessp.2009.247.255>
- Ren, L. and S. C. Riser, 2009: Seasonal salt budget in the northeast Pacific Ocean. *Journal of Geophysical Research: Oceans*, **114**, 11, <http://dx.doi.org/10.1029/2009jc005307>
- Resplandy, L., M. Levy, F. d'Ovidio, and L. Merlivat, 2009: Impact of submesoscale variability in estimating the air-sea CO₂ exchange: Results from a model study of the POMME experiment. *Global Biogeochemical Cycles*, **23**, 19,
<http://dx.doi.org/10.1029/2008gb003239>
- Roemmich, D. and J. Gilson, 2009: The 2004-2008 mean and annual cycle of temperature, salinity, and steric height in the global ocean from the Argo Program. *Progress in Oceanography*, **82**, 81-100, <http://dx.doi.org/10.1016/j.pocean.2009.03.004>
- Roemmich, D., G. C. Johnson, S. Riser, R. Davis, J. Gilson, W. B. Owens, S. L. Garzoli, C. Schmid, and M. Ignaszewski, 2009: The Argo Program: Observing the global oceans with profiling floats. *Oceanography*, **22**, 24-33,
<http://dx.doi.org/10.5670/oceanog.2009.36>

- Roemmich, D. and A. S. Team, 2009: Argo: The Challenge of Continuing 10 Years of Progress. *Oceanography*, **22**, <http://dx.doi.org/10.5670/oceanog.2009.65>
- Roquet, F., Y. H. Park, C. Guinet, F. Bailleul, and J. B. Charrassin, 2009: Observations of the Fawn Trough Current over the Kerguelen Plateau from instrumented elephant seals. *Journal of Marine Systems*, **78**, 377-393, <http://dx.doi.org/10.1016/j.jmarsys.2008.11.017>
- Salon, S., P. M. Poulain, E. Mauri, R. Gerin, D. Adami, and F. Davoli, 2009: Remote Oceanographic Instrumentation Integrated in a GRID Environment. *Computational Methods in Science and Technology*, **15**, 49-55, <http://dx.doi.org/10.12921/cmst.2009.15.01.49-55>
- Saraceno, M., C. Provost, and U. Zajaczkowski, 2009: Long-term variation in the anticyclonic ocean circulation over the Zapiola Rise as observed by satellite altimetry: Evidence of possible collapses. *Deep Sea Research Part I: Oceanographic Research Papers*, **56**, 1077-1092, <http://dx.doi.org/10.1016/j.dsr.2009.03.005>
- Sato, K. and T. Suga, 2009: Structure and Modification of the South Pacific Eastern Subtropical Mode Water. *Journal of Physical Oceanography*, **39**, 1700-1714, <http://dx.doi.org/10.1175/2008jpo3940.1>
- Schmid, C. and S. L. Garzoli, 2009: New observations of the spreading and variability of the Antarctic Intermediate Water in the Atlantic. *Journal of Marine Research*, **67**, 815-843, <http://dx.doi.org/10.1357/002224009792006151>
- Shimizu, Y., K. Takahashi, S. I. Ito, S. Kakehi, H. Tatebe, I. Yasuda, A. Kusaka, and T. Nakayama, 2009: Transport of subarctic large copepods from the Oyashio area to the mixed water region by the coastal Oyashio intrusion. *Fisheries Oceanography*, **18**, 312-327, <http://dx.doi.org/10.1111/j.1365-2419.2009.00513.x>
- Skachko, S., J. M. Brankart, B. F. Castruccio, P. Brasseur, and J. Verron, 2009: Improved Turbulent Air-Sea Flux Bulk Parameters for Controlling the Response of the Ocean Mixed Layer: A Sequential Data Assimilation Approach. *Journal of Atmospheric and Oceanic Technology*, **26**, 538-555, <http://dx.doi.org/10.1175/2008jtecho603.1>
- Smith, G. C. and K. Haines, 2009: Evaluation of the S(T) assimilation method with the Argo dataset. *Quarterly Journal of the Royal Meteorological Society*, **135**, 739-756, <http://dx.doi.org/10.1002/qj.395>
- Sokolov, S. and S. R. Rintoul, 2009: Circumpolar structure and distribution of the Antarctic Circumpolar Current fronts: 1. Mean circumpolar paths. *Journal of Geophysical Research: Oceans*, **114**, 19, <http://dx.doi.org/10.1029/2008jc005108>
- Somavilla, R., C. Gonzalez-Pola, C. Rodriguez, S. A. Josey, R. F. Sanchez, and A. Lavin, 2009: Large changes in the hydrographic structure of the Bay of Biscay after the extreme mixing of winter 2005. *J. Geophys. Res.*, **114**, <http://dx.doi.org/10.1029/2008JC004974>
- Srinivasan, A., Z. Garraffo, and M. Iskandarani, 2009: Abyssal circulation in the Indian Ocean from a 1/12o resolution global hindcast. *Deep Sea Research Part I: Oceanographic Research Papers*, **56**, 1907-1926, <http://dx.doi.org/10.1016/j.dsr.2009.07.001>
- Sun, L., Y.-J. Yang, and Y.-F. Fu, 2009: Impacts of Typhoons on Kuroshio Large Meander: Observation Evidences. *Atmospheric and Oceanic Science Letters*, **2**, 45-50, <http://dx.doi.org/10.1080/16742834.2009.11446772>

- Sweet, W. V., J. M. Morrison, Y. Liu, D. Kamykowski, B. A. Schaeffer, L. Xie, and S. Banks, 2009: Tropical instability wave interactions within the Galapagos Archipelago. *Deep Sea Research Part I: Oceanographic Research Papers*, **56**, 1217-1229, <http://dx.doi.org/10.1016/j.dsr.2009.02.005>
- Takano, A., H. Yamazaki, T. Nagai, and O. Honda, 2009: A Method to Estimate Three-Dimensional Thermal Structure from Satellite Altimetry Data. *Journal of Atmospheric and Oceanic Technology*, **26**, 2655-2664, <http://dx.doi.org/10.1175/2009jtecho669.1>
- Talone, M., A. Camps, B. Mourre, R. Sabia, M. Vall-Ilossera, J. Gourrion, C. Gabarro, and J. Font, 2009: Simulated SMOS Levels 2 and 3 Products: The Effect of Introducing ARGO Data in the Processing Chain and Its Impact on the Error Induced by the Vicinity of the Coast. *Ieee Transactions on Geoscience and Remote Sensing*, **47**, 3041-3050, <http://dx.doi.org/10.1109/tgrs.2008.2011618>
- Telszewski, M., A. Chazottes, U. Schuster, A. J. Watson, C. Moulin, D. C. E. Bakker, M. González-Dávila, T. Johannessen, A. Körtzinger, H. Lüger, A. Olsen, A. Omar, X. A. Padin, A. F. Ríos, T. Steinhoff, M. Santana-Casiano, D. W. R. Wallace, and R. Wanninkhof, 2009: Estimating the monthly pCO₂ distribution in the North Atlantic using a self-organizing neural network. *Biogeosciences*, **6**, 1405-1421, <http://dx.doi.org/10.5194/bg-6-1405-2009>
- Thomson, R. E. and I. V. Fine, 2009: A Diagnostic Model for Mixed Layer Depth Estimation with Application to Ocean Station P in the Northeast Pacific. *Journal of Physical Oceanography*, **39**, 1399-1415, <http://dx.doi.org/10.1175%2F2008JPO3984.1>
- Tonani, M., N. Pinardi, C. Fratianni, J. Pistoia, S. Dobricic, S. Pensieri, M. de Alfonso, and K. Nittis, 2009: Mediterranean Forecasting System: forecast and analysis assessment through skill scores. *Ocean Science*, **5**, 649-660, <http://dx.doi.org/10.5194/os-5-649-2009>
- Trossman, D. S., L. Thompson, K. A. Kelly, and Y. O. Kwon, 2009: Estimates of North Atlantic Ventilation and Mode Water Formation for Winters 2002-06. *Journal of Physical Oceanography*, **39**, 2600-2617, <http://dx.doi.org/10.1175/2009jpo3930.1>
- Tummala, S. K., R. S. Mupparthy, M. N. Kumar, and S. R. Nayak, 2009: Phytoplankton bloom due to Cyclone Sidr in the central Bay of Bengal. *Journal of Applied Remote Sensing*, **3**, 14, <http://dx.doi.org/10.1117/1.3238329>
- Ueno, H., H. J. Freeland, W. R. Crawford, H. Onishi, E. Oka, K. Sato, and T. Suga, 2009: Anticyclonic Eddies in the Alaskan Stream. *Journal of Physical Oceanography*, **39**, 934-951, <http://dx.doi.org/10.1175/2008jpo3948.1>
- Vage, K., R. S. Pickart, V. Thierry, G. Reverdin, C. M. Lee, B. Petrie, T. A. Agnew, A. Wong, and M. H. Ribergaard, 2009: Surprising return of deep convection to the subpolar North Atlantic Ocean in winter 2007-2008. *Nature Geoscience*, **2**, 67-72, <http://dx.doi.org/10.1038/ngeo382>
- Vialard, J., J. P. Duvel, M. J. McPhaden, P. Bouruet-Aubertot, B. Ward, E. Key, D. Bourras, R. Weller, P. Minnett, A. Weill, C. Cassou, L. Eymard, T. Fristedt, C. Basdevant, Y. Dandonneau, O. Duteil, T. Izumo, C. D. Montegut, S. Masson, F. Marsac, C. Menkes, and S. Kennan, 2009: CIRENE Air-Sea Interactions in the Seychelles-Chagos Thermocline Ridge Region. *Bulletin of the American Meteorological Society*, **90**,

- 45-61, <http://dx.doi.org/10.1175/2008bams2499.1>
- von Schuckmann, K., F. Gaillard, and P. Y. Le Traon, 2009: Global hydrographic variability patterns during 2003-2008. *Journal of Geophysical Research: Oceans*, **114**, 17, <http://dx.doi.org/10.1029/2008jc005237>
- Wan, L. Y., J. Zhu, H. Wang, C. X. Yan, and L. Bertino, 2009: A "Dressed" Ensemble Kalman Filter Using the Hybrid Coordinate Ocean Model in the Pacific. *Advances in Atmospheric Sciences*, **26**, 1042-1052, <http://dx.doi.org/10.1007/s00376-009-7208-6>
- Wells, N. C., S. A. Josey, and R. E. Hadfield, 2009: Towards closure of regional heat budgets in the North Atlantic using Argo floats and surface flux datasets. *Ocean Science*, **5**, 59-72, <http://dx.doi.org/10.5194/os-5-59-2009>
- Willis, J. K., J. M. Lyman, G. C. Johnson, and J. Gilson, 2009: In Situ Data Biases and Recent Ocean Heat Content Variability. *Journal of Atmospheric and Oceanic Technology*, **26**, 846-852, <http://dx.doi.org/10.1175/2008jtecho608.1>
- Xie, J. P., J. Zhu, 2009: A Dataset of Global Ocean Surface Currents for 1999-2007 Derived from Argo Float Trajectories: A Comparison with Surface Drifter and TAO Measurements. *Atmospheric and Oceanic Science Letters*, **2**, 97-102, <http://dx.doi.org/10.1080/16742834.2009.11446780>
- Yang, S.-C., C. Keppenne, M. Rienecker, and E. Kalnay, 2009: Application of Coupled Bred Vectors to Seasonal-to-Interannual Forecasting and Ocean Data Assimilation. *Journal of Climate*, **22**, 2850-2870, <http://dx.doi.org/10.1175%2F2008JCLI2427.1>
- Yashayaev, I. and J. W. Loder, 2009: Enhanced production of Labrador Sea Water in 2008. *Geophysical Research Letters*, **36**, <http://dx.doi.org/10.1029/2008gl036162>
- Zhang, S., A. Rosati, and M. J. Harrison, 2009: Detection of multidecadal oceanic variability by ocean data assimilation in the context of a "perfect" coupled model. *Journal of Geophysical Research: Oceans*, **114**, <http://dx.doi.org/10.1029/2008jc005261>

2008 (104)

- Agarwal, N., R. Sharma, S. Basu, and V. K. Agarwal, 2008: Assimilation of sub-surface temperature profiles from Argo floats in the Indian Ocean in an Ocean General Circulation Model. *Current Science*, **95**, 495-501, http://www.currentscience.ac.in/php/show_article.php?volume=095&issue=04&titleid=id_095_04_0495_0501_0&page=0495
- Anitha, G., M. Ravichandran, and R. Sayanna, 2008: Surface buoyancy flux in Bay of Bengal and Arabian Sea. *Annales Geophysicae*, **26**, 395-400, <http://dx.doi.org/10.5194/angeo-26-395-2008>
- Aoki, S., N. Fujii, S. Ushio, Y. Yoshikawa, S. Watanabe, G. Mizuta, Y. Fukamachi, and M. Wakatsuchi, 2008: Deep western boundary current and southern frontal systems of the Antarctic Circumpolar Current southeast of the Kerguelen Plateau. *Journal of Geophysical Research: Oceans*, **113**, <http://dx.doi.org/10.1029/2007jc004627>
- Balmaseda, M., A. Vidard, and D. L. T. Anderson, 2008: The ECMWF ocean analysis system: ORA-S3. *Monthly Weather Review*, **136**, 3018-3034, <http://dx.doi.org/10.1175/2008mwr2433.1>
- Barre, N., C. Provost, N. Sennechael, and J. H. Lee, 2008: Circulation in the Ona Basin,

- southern Drake Passage. *Journal of Geophysical Research: Oceans*, **113**,
<http://dx.doi.org/10.1029/2007jc004549>
- Benkiran, M. and E. Greiner, 2008: Impact of the Incremental Analysis Updates on a Real-Time System of the North Atlantic Ocean. *Journal of Atmospheric and Oceanic Technology*, **25**, 2055-2073, <http://dx.doi.org/10.1175/2008jtecho537.1>
- Bhaskar, T. V. S. U., D. Swain, and M. Ravichandran, 2008: Seasonal Variability of Sonic Layer Depth in the Central Arabian Sea. *Ocean Science Journal*, **43**, 147-152, <http://dx.doi.org/10.1007/BF03020695>
- Boehme, L., M. P. Meredith, S. E. Thorpe, M. Biuw, and M. Fedak, 2008: Antarctic Circumpolar Current frontal system in the South Atlantic: Monitoring using merged Argo and animal-borne sensor data. *Journal of Geophysical Research: Oceans*, **113**,
<http://dx.doi.org/10.1029/2007jc004647>
- Boning, C. W., A. Dispert, M. Visbeck, S. R. Rintoul, and F. U. Schwarzkopf, 2008: The response of the Antarctic Circumpolar Current to recent climate change. *Nature Geoscience*, **1**, 864-869, <http://dx.doi.org/10.1038/ngeo362>
- Bork, K., J. Karstensen, M. Visbeck, and A. Zimmermann, 2008: The legal regulation of floats and gliders - In quest of a new regime? *Ocean Development and International Law*, **39**, 298-328, <http://dx.doi.org/10.1080/00908320802235338>
- Boss, E., M. J. Perry, D. Swift, P. Brickley, R. Zaneveld, and S. Riser, 2008: Three Years of Ocean Data from a Bio-optical Profiling Float. *EOS*, **88**,
<http://dx.doi.org/10.1029/2008EO230001>
- Boss, E., D. Swift, L. Taylor, P. Brickley, R. Zaneveld, S. Riser, M. J. Perry, and P. G. Strutton, 2008: Observations of pigment and particle distributions in the western North Atlantic from an autonomous float and ocean color satellite. *Limnology and Oceanography*, **53**, 2112-2122, http://dx.doi.org/10.4319/lo.2008.53.5_part_2.2112
- Boutin, J., L. Merlivat, C. Henocq, N. Martin, and J. B. Sallee, 2008: Air-sea CO₂ flux variability in frontal regions of the Southern Ocean from CARbon Interface OCEan Atmosphere drifters. *Limnology and Oceanography*, **53**, 2062-2079,
http://dx.doi.org/10.4319/lo.2008.53.5_part_2.2062
- Campbell, R. W., 2008: Overwintering habitat of *Calanus finmarchicus* in the North Atlantic inferred from autonomous profiling floats. *Deep Sea Research Part I: Oceanographic Research Papers*, **55**, 630-645, <http://dx.doi.org/10.1016/j.dsr.2008.02.009>
- Carton, J. A. and B. S. Giese, 2008: A reanalysis of ocean climate using Simple Ocean Data Assimilation (SODA). *Monthly Weather Review*, **136**, 2999-3017,
<http://dx.doi.org/10.1175/2007mwr1978.1>
- Carton, J. A., S. A. Grodsky, and H. Liu, 2008: Variability of the oceanic mixed layer, 1960-2004. *Journal of Climate*, **21**, 1029-1047,
<http://dx.doi.org/10.1175/2007jcli1798.1>
- Cazes-Boezio, G., D. Menemenlis, and C. R. Mechoso, 2008: Impact of ECCO ocean-state estimates on the initialization of seasonal climate forecasts. *Journal of Climate*, **21**, 1929-1947, <http://dx.doi.org/10.1175/2007JCLI1574.1>
- Chambers, D. P. and J. K. Willis, 2008: Analysis of large-scale ocean bottom pressure variability in the North Pacific. *Journal of Geophysical Research: Oceans*, **113**,
<http://dx.doi.org/10.1029/2008jc004930>

- Cheng, X., Y. Qi, and W. Zhou, 2008: Trends of sea level variations in the Indo-Pacific warm pool. *Global and Planetary Change*, **63**, 57-66, <http://dx.doi.org/10.1016/j.gloplacha.2008.06.001>
- Chiggiato, J. and P. Oddo, 2008: Operational ocean models in the Adriatic Sea: a skill assessment. *Ocean Science*, **4**, 61-71, <http://dx.doi.org/10.5194/os-4-61-2008>
- Chiswell, S. M. and G. J. Rickard, 2008: Eulerian and Lagrangian statistics in the Bluelink numerical model and AVISO altimetry: Validation of model eddy kinetics. *Journal of Geophysical Research: Oceans*, **113**, <https://doi.org/10.1029/2007JC004673>
- Chu, P. C., L. M. Ivanov, O. V. Melnichenko, and R. Li, 2008: Argo floats revealing bimodality of large-scale mid-depth circulation in the North Atlantic. *Acta Oceanologica Sinica*, **27**, 1-10,
- Church, J. A., N. White, T. Aarup, W. Wilson, P. Woodworth, C. Domingues, J. Hunter, and K. Lambeck, 2008: Understanding global sea levels: past, present and future. *Sustainability Science*, **3**, 9-22, <http://dx.doi.org/10.1007/s11625-008-0042-4>
- Couvelard, X., P. Marchesiello, L. Gourdeau, and J. Lefevre, 2008: Barotropic zonal jets induced by islands in the southwest Pacific. *Journal of Physical Oceanography*, **38**, 2185-2204, <http://dx.doi.org/10.1175/2008jpo3903.1>
- Crosnier, L., M. Drevillon, S. R. Buarque, and F. Soulat, 2008: Three ocean state indices implemented in the Mercator-Ocean operational suite. *ICES Journal of Marine Science: Journal du Conseil*, **65**, 1504-1507, <http://www.dx.doi.org/10.1093/icesjms/fsn122>
- Dickey, J. O., S. L. Marcus, and J. K. Willis, 2008: Ocean cooling: Constraints from changes in Earth's dynamic oblateness ($J(2)$) and altimetry. *Geophysical Research Letters*, **35**, <http://dx.doi.org/10.1029/2008gl035115>
- Dobricic, S. and N. Pinardi, 2008: An oceanographic three-dimensional variational data assimilation scheme. *Ocean Modelling*, **22**, 89-105, <http://dx.doi.org/10.1016/j.ocemod.2008.01.004>
- Domingues, C. M., J. A. Church, N. J. White, P. J. Gleckler, S. E. Wijffels, P. M. Barker, and J. R. Dunn, 2008: Improved estimates of upper-ocean warming and multi-decadal sea-level rise. *Nature*, **453**, 1090-1093, <http://dx.doi.org/10.1038/nature07080>
- Dong, S., J. Sprintall, S. T. Gille, and L. Talley, 2008: Southern Ocean mixed-layer depth from Argo float profiles. *Journal of Geophysical Research: Oceans*, **113**, <http://dx.doi.org/10.1029/2006jc004051>
- Fischer, J., V. Hormann, P. Brandt, F. A. Schott, B. Rabe, and A. Funk, 2008: South equatorial undercurrent in the western to central tropical Atlantic. *Geophysical Research Letters*, L21601 (5 pp.), <http://dx.doi.org/10.1029/2008gl035753>
- Forget, G., B. Ferron, and H. Mercier, 2008: Combining Argo profiles with a general circulation model in the North Atlantic. Part 1: Estimation of hydrographic and circulation anomalies from synthetic profiles, over a year. *Ocean Modelling*, **20**, 1-16, <http://dx.doi.org/10.1016/j.ocemod.2007.06.001>
- Forget, G., H. Mercier, and B. Ferron, 2008: Combining Argo profiles with a general circulation model in the North Atlantic. Part 2: Realistic transports and improved hydrography, between spring 2002 and spring 2003. *Ocean Modelling*, **20**, 17-34, <http://dx.doi.org/10.1016/j.ocemod.2007.06.002>

- Fujii, Y., T. Yasuda, S. Matsumoto, M. Makachi, and K. Ando, 2008: Observing System Evaluation (OSE) using the El Nino forecasting system in Japan Meteorological Agency. *Proceedings of the oceanographic society of Japan fall meeting*,
- Ganachaud, A., L. Gourdeau, and W. Kessler, 2008: Bifurcation of the subtropical south equatorial current against New Caledonia in December 2004 from a hydrographic inverse box model. *Journal of Physical Oceanography*, **38**, 2072-2084, <http://dx.doi.org/10.1175/2008jpo3901.1>
- Gascard, J. C. and K. A. Mork, 2008: Climatic Importance of Large Scale and Mesoscale Circulation in the Lofoten Basin deduced from Lagrangian Observation. *Defining the Role of the Northern Seas in Climate*, R. R. Dickson, J. Meincke, and P. Rhines, Eds., Springer, 131-143, <http://www.springer.com/us/book/9781402067730>.
- Gille, S. T., 2008: Decadal-scale temperature trends in the Southern Hemisphere ocean. *Journal of Climate*, **21**, 4749-4765, <http://dx.doi.org/10.1175/2008jcli2131.1>
- Gopalakrishna, V. V., R. R. Rao, K. Nisha, M. S. Girishkumar, T. Pankajakshan, M. Ravichandran, Z. Johnson, K. Girish, N. Aneeshkumar, M. Srinath, S. Rajesh, and C. K. Rajan, 2008: Observed anomalous upwelling in the Lakshadweep Sea during the summer monsoon season of 2005. *Journal of Geophysical Research: Oceans*, C05001 (12 pp.), <http://dx.doi.org/10.1029/2007jc004240>
- Gourdeau, L., W. S. Kessler, R. E. Davis, J. Sherman, C. Maes, and E. Kestenare, 2008: Zonal jets entering the coral sea. *Journal of Physical Oceanography*, **38**, 715-725, <http://dx.doi.org/10.1175/2007jpo3780.1>
- Gronell, A. and S. E. Wijffels, 2008: A semiautomated approach for quality controlling large historical ocean temperature archives. *Journal of Atmospheric and Oceanic Technology*, **25**, 990-1003, <http://dx.doi.org/10.1175/jtecho539.1>
- Harrison, M. J. and R. W. Hallberg, 2008: Pacific subtropical cell response to reduced equatorial dissipation. *Journal of Physical Oceanography*, **38**, 1894-1912, <http://dx.doi.org/10.1175/2008jpo3708.1>
- Heffner, D. M., B. Subrahmanyam, and J. F. Shriver, 2008: Indian Ocean Rossby waves detected in HYCOM sea surface salinity. *Geophysical Research Letters*, **35**, <http://dx.doi.org/10.1029/2007gl032760>
- Henocq, C., J. Boutin, F. Petitcolin, S. Arnault, and P. Lattes, 2008: Vertical variability of sea surface salinity and influence on L-band brightness temperature. *2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007*, 990-3,
- Huang, B., Y. Xue, and D. W. Behringer, 2008: Impacts of argo salinity in NCEP global ocean data assimilation system: The tropical Indian ocean. *Journal of Geophysical Research: Oceans*, **113**, <http://dx.doi.org/10.1029/2007jc004388>
- Huang, Y. P., L. J. Kao, and F. E. Sandnes, 2008: Efficient mining of salinity and temperature association rules from ARGO data. *Expert Systems with Applications*, **35**, 59-68, <http://dx.doi.org/10.1016/j.eswa.2007.06.007>
- Hydes, D. J., M. C. Hartman, C. P. Barger, J. M. Campbell, M. S. Cure, and D. K. Woolf, 2008: A study of gas exchange during the transition from deep winter mixing to spring bloom in the Bay of Biscay measured by continuous observation from a ship of opportunity. *Journal of Operational Oceanography*, **1**, 41-50,
- Ivchenko, V. O., S. Danilov, D. Sidorenko, J. Schroter, M. Wenzel, and D. L. Aleynik, 2008:

- Steric height variability in the Northern Atlantic on seasonal and interannual scales. *Journal of Geophysical Research: Oceans*, **113**, <http://dx.doi.org/10.1029/2008jc004836>
- Izumo, T., C. D. Montegut, J. J. Luo, S. K. Behera, S. Masson, and T. Yamagata, 2008: The Role of the Western Arabian Sea Upwelling in Indian Monsoon Rainfall Variability. *Journal of Climate*, **21**, 5603-5623, <http://dx.doi.org/10.1175/2008jcli2158.1>
- Johnson, G. C. and J. M. Lyman, 2008: Global Oceans: Sea Surface Salinity. *Bulletin of the American Meteorological Society*, **89**, S45-S47, <http://dx.doi.org/10.1175/BAMS-89-7-StateoftheClimate>
- Johnson, G. C., J. M. Lyman, and J. K. Willis, 2008: Global Oceans: Ocean Heat Content. *Bulletin of the American Meteorological Society*, **89**, S39-S41, <http://dx.doi.org/10.1175/BAMS-89-7-StateoftheClimate>.
- Kamykowski, D., 2008: Estimating upper ocean phosphate concentrations using ARGO float temperature profiles. *Deep Sea Research Part I: Oceanographic Research Papers*, **55**, 1580-1589, <http://dx.doi.org/10.1016/j.dsr.2008.05.017>
- Kohl, A. and D. Stammer, 2008: Decadal sea level changes in the 50-year GECCO ocean synthesis. *Journal of Climate*, **21**, 1876-1890, <http://dx.doi.org/10.1175/2007jcli2081.1>
- Law, C. S., 2008: Predicting and monitoring the effects of large-scale ocean iron fertilization on marine trace gas emissions. *Marine Ecology Progress Series*, **364**, 283-288, <http://dx.doi.org/10.3354/meps07549>
- Li, W., Y. F. Xie, Z. J. He, G. J. Han, K. X. Liu, J. R. Ma, and D. Li, 2008: Application of the Multigrid Data Assimilation Scheme to the China Seas' Temperature Forecast. *Journal of Atmospheric and Oceanic Technology*, **25**, 2106-2116, <http://dx.doi.org/10.1175/2008jtecho510.1>
- Liu, Z.-H., J. P. Xu, and B. K. Zhu, 2008: Observing process of an Argo profiling float and discussion on its data application. *Journal of Tropical Oceanography*, **27**, 66-72,
- Lumpkin, R., K. G. Speer, and K. P. Koltermann, 2008: Transport across 48 degrees N in the Atlantic Ocean. *Journal of Physical Oceanography*, **38**, 733-752, <http://dx.doi.org/10.1175/2007jpo3636.1>
- Lyman, J. M. and G. C. Johnson, 2008: Estimating Annual Global Upper-Ocean Heat Content Anomalies despite Irregular In Situ Ocean Sampling. *Journal of Climate*, **21**, 5629-5641, <http://dx.doi.org/10.1175/2008jcli2259.1>
- Maes, C., 2008: On the ocean salinity stratification observed at the eastern edge of the equatorial Pacific warm pool. *Journal of Geophysical Research: Oceans*, C03027 (15 pp.), <http://dx.doi.org/10.1029/2007jc004297>
- Martz, T. R., K. S. Johnson, and S. C. Riser, 2008: Ocean metabolism observed with oxygen sensors on profiling floats in the South Pacific. *Limnology and Oceanography*, **53**, 2094-2111, http://dx.doi.org/10.4319/lo.2008.53.5_part_2.2094
- Maximenko, N. A., O. V. Melnichenko, P. P. Niiler, and H. Sasaki, 2008: Stationary mesoscale jet-like features in the ocean. *Geophysical Research Letters*, L08603 (6 pp.), <http://dx.doi.org/10.1029/2008gl033267>
- McDonagh, E. L., H. L. Bryden, B. A. King, and R. J. Sanders, 2008: The circulation of the Indian Ocean at 32 degrees S. *Progress in Oceanography*, **79**, 20-36,

- <http://dx.doi.org/10.1016/j.pocean.2008.07.001>
- Mourre, B., J. Ballabrera-Poy, E. Garcia-Ladona, and J. Font, 2008: Surface salinity response to changes in the model parameters and forcings in a climatological simulation of the eastern North-Atlantic Ocean. *Ocean Modelling*, **23**, 21-32, <http://dx.doi.org/10.1016/j.ocemod.2008.03.002>
- Oke, P. R., G. B. Brassington, D. A. Griffin, and A. Schiller, 2008: The Bluelink ocean data assimilation system (BODAS). *Ocean Modelling*, **21**, 46-70, <http://dx.doi.org/10.1016/j.ocemod.2007.11.002>
- Oke, P. R. and P. Sakov, 2008: Representation error of oceanic observations for data assimilation. *Journal of Atmospheric and Oceanic Technology*, **25**, 1004-1017, <http://dx.doi.org/10.1175/2007jtecho558.1>
- Olsen, A., K. R. Brown, M. Chierici, T. Johannessen, and C. Neill, 2008: Sea-surface CO₂ fugacity in the subpolar North Atlantic. *Biogeosciences*, **5**, 535-547, <http://dx.doi.org/10.5194/bg-5-535-2008>
- Ono, J., K. I. Ishima, G. Mizuta, Y. Fukainachi, and M. Wakatsuchi, 2008: Diurnal coastal-trapped waves on the eastern shelf of Sakhalin in the Sea of Okhotsk and their modification by sea ice. *Continental Shelf Research*, **28**, 697-709, <http://dx.doi.org/10.1016/j.csr.2007.11.008>
- Park, J., M. S. Suk, S. Yoon, and S. Yoo, 2008: Variability of surface chlorophyll concentration in the Northwest Pacific Ocean. *Ocean and Polar Research*, **30**, 277-287, <http://dx.doi.org/10.4217/OPR.2008.30.3.277>
- Park, J. J., K. Kim, and J. Y. Yang, 2008: Aspiration and outflow of the intermediate water in the East/Japan Sea through the Tsugaru Strait. *Geophysical Research Letters*, **35**, 6, <http://dx.doi.org/10.1029/2007gl032981>
- Park, Y.-H., F. Roquet, I. Durand, and J.-L. Fuda, 2008: Large-scale circulation over and around the Northern Kerguelen Plateau. *Deep Sea Research Part II: Topical Studies in Oceanography*, **55**, 566-581, <http://dx.doi.org/10.1016/j.dsr2.2007.12.030>
- Qiu, B., S. Chen, P. Hacker, N. G. Hogg, S. R. Jayne, and H. Sasaki, 2008: The Kuroshio Extension northern recirculation gyre: Profiling float measurements and forcing mechanism. *Journal of Physical Oceanography*, **38**, 1764-1779, <http://dx.doi.org/10.1175/2008jpo3921.1>
- Qu, T. D., S. Gao, I. Fukumori, R. A. Fine, and E. J. Lindstrom, 2008: Subduction of South Pacific waters. *Geophysical Research Letters*, **35**, <http://dx.doi.org/10.1029/2007gl032605>
- Rao, A. D., M. Joshi, and M. Ravichandran, 2008: Oceanic upwelling and downwelling processes in waters off the west coast of India. *Ocean Dynamics*, **58**, 213-226, <http://dx.doi.org/10.1007/s10236-008-0147-4>
- Rao, R. R., M. S. G. Kumar, M. Ravichandran, V. V. Gopalakrishna, and P. Thadathil, 2008: A cold pool south of Indo-Sri-Lanka channel and its intrusion into the Southeastern Arabian Sea during winter. *Deep Sea Research Part I: Oceanographic Research Papers*, **55**, 1009-1020, <http://dx.doi.org/10.1016/j.dsr.2008.04.006>
- Riser, S. C. and K. S. Johnson, 2008: Net production of oxygen in the subtropical ocean. *Nature*, **451**, 323-5, <http://dx.doi.org/10.1038/nature06441>
- Riser, S. C., J. Nystuen, and A. Rogers, 2008: Monsoon effects in the Bay of Bengal inferred

- from profiling float-based measurements of wind speed and rainfall. *Limnology and Oceanography*, **53**, 2080-2093, http://dx.doi.org/10.4319/lo.2008.53.5_part_2.2080
- Riser, S. C., L. Ren, and A. Wong, 2008: Salinity in Argo: A Modern View of a Changing Ocean. *Oceanography*, **21**, 56-67, <http://dx.doi.org/10.5670/oceanog.2008.67>
- Sahu, S. K. and P. Challenor, 2008: A space-time model for joint modeling of ocean temperature and salinity levels as measured by Argo floats. *Environmetrics*, **19**, 509-528, <http://dx.doi.org/10.1002/env.895>
- Sallee, J. B., R. Morrow, and K. Speer, 2008: Eddy heat diffusion and Subantarctic Mode Water formation. *Geophysical Research Letters*, **35**, <http://dx.doi.org/10.1029/2007GL032827>
- Sallee, J. B., K. Speer, and R. Morrow, 2008: Response of the Antarctic Circumpolar Current to atmospheric variability. *Journal of Climate*, **21**, 3020-3039, <http://dx.doi.org/10.1175/2007jcli1702.1>
- Schiller, A., P. R. Oke, G. Brassington, M. Entel, R. Fiedler, D. A. Griffin, and J. V. Mansbridge, 2008: Eddy-resolving ocean circulation in the Asian-Australian region inferred from an ocean reanalysis effort. *Progress in Oceanography*, **76**, 334-365, <http://dx.doi.org/10.1016/j.pocean.2008.01.003>
- Schroeder, K., V. Taillandier, A. Vetrano, and G. P. Gasparini, 2008: The circulation of the western Mediterranean Sea in spring 2005 as inferred from observations and from model outputs. *Deep Sea Research Part I: Oceanographic Research Papers*, **55**, 947-965, <http://dx.doi.org/10.1016/j.dsr.2008.04.003>
- Siswanto, E., J. Ishizaka, A. Morimoto, K. Tanaka, K. Okamura, A. Kristijono, and T. Saino, 2008: Ocean physical and biogeochemical responses to the passage of Typhoon Meari in the East China Sea observed from Argo float and multiplatform satellites. *Geophysical Research Letters*, **35**, <http://dx.doi.org/10.1029/2008gl035040>
- Smith, R. O., H. L. Bryden, and K. Stansfield, 2008: Observations of new western Mediterranean deep water formation using Argo floats 2004-2006. *Ocean Science*, **4**, 133-149, <http://dx.doi.org/10.5194/os-4-133-2008>
- Sreenivas, P., K. V. K. R. K. Patnaik, and K. V. S. R. Prasad, 2008: Monthly variability of mixed layer over Arabian Sea using ARGO data. *Marine Geodesy*, **31**, 17-38, <http://dx.doi.org/10.1080/01490410701812311>
- Stramma, L., P. Brandt, J. Schafstall, F. Schott, J. Fischer, and A. Kortzinger, 2008: Oxygen minimum zone in the North Atlantic south and east of the Cape Verde Islands. *Journal of Geophysical Research: Oceans*, **113**, <http://dx.doi.org/10.1029/2007jc004369>
- Stramma, L., G. C. Johnson, J. Sprintall, and V. Mohrholz, 2008: Expanding oxygen-minimum zones in the tropical oceans. *Science*, **320**, 655-658, <http://dx.doi.org/10.1126/science.1153847>
- Thacker, W. C., 2008: Estimating salinity between 25 degrees and 45 degrees S in the Atlantic Ocean using local regression. *Journal of Atmospheric and Oceanic Technology*, **25**, 114-130, <http://dx.doi.org/10.1175/2007jtecho530.1>
- Thadathil, P., P. Thoppil, R. R. Rao, P. M. Muraleedharan, Y. K. Somayajulu, V. V. Gopalakrishna, R. Murthugudde, G. V. Reddy, and C. Revichandran, 2008: Seasonal variability of the observed barrier layer in the Arabian sea. *Journal of Physical*

- Oceanography*, **38**, 624-638, <http://dx.doi.org/10.1175/2007jpo3798.1>
- Thierry, V., E. de Boisseson, and H. Mercier, 2008: Interannual variability of the Subpolar Mode Water properties over the Reykjanes Ridge during 1990-2006. *Journal of Geophysical Research: Oceans*, **113**, <http://dx.doi.org/10.1029/2007jc004443>
- Tonani, M., N. Pinardi, S. Dobricic, I. Pujol, and C. Fratianni, 2008: A high-resolution free-surface model of the Mediterranean Sea. *Ocean Science*, **4**, 1-14, <http://dx.doi.org/10.5194/os-4-1-2008>
- Tranchant, B., C. E. Testut, L. Renault, N. Ferry, F. Birol, and P. Brasseur, 2008: Expected impact of the future SMOS and Aquarius Ocean surface salinity missions in the Mercator Ocean operational systems: New perspectives to monitor ocean circulation. *Remote Sensing of Environment*, **112**, 1476-1487, <http://dx.doi.org/10.1016/j.rse.2007.06.023>
- Uchida, H. and S. Imawaki, 2008: Estimation of the sea level trend south of Japan by combining satellite altimeter data with in situ hydrographic data. *Journal of Geophysical Research: Oceans*, **113**, <http://dx.doi.org/10.1029/2008jc004796>
- Uchida, H., T. Kawano, and M. Fukasava, 2008: In situ calibration of moored CTDs used for monitoring abyssal water. *Journal of Atmospheric and Oceanic Technology*, **25**, 1695-1702, <http://dx.doi.org/10.1175/2008jtecho581.1>
- Vialard, J., G. R. Foltz, M. J. McPhaden, J. P. Duvel, and C. de Boyer Montegut, 2008: Strong Indian Ocean sea surface temperature signals associated with the Madden-Julian Oscillation in late 2007 and early 2008. *Geophysical Research Letters*, **35**, <http://dx.doi.org/10.1029/2008GL035238>
- Vinayachandran, P. N. and N. H. Saji, 2008: Mechanisms of South Indian Ocean intraseasonal cooling. *Geophysical Research Letters*, **35**, <http://dx.doi.org/10.1029/2008gl035733>
- Vinogradov, S. V., R. M. Ponte, P. Heimbach, and C. Wunsch, 2008: The mean seasonal cycle in sea level estimated from a data-constrained general circulation model. *J. Geophys. Res.*, **113**, <http://dx.doi.org/10.1029/2007JC004496>
- Wijffels, S. E., J. Willis, C. M. Domingues, P. Barker, N. J. White, A. Gronell, K. Ridgway, and J. A. Church, 2008: Changing Expendable Bathythermograph Fall Rates and Their Impact on Estimates of Thermosteric Sea Level Rise. *Journal of Climate*, **21**, 5657-5672, <http://dx.doi.org/10.1175/2008jcli2290.1>
- Willis, J. K., D. P. Chambers, and R. S. Nerem, 2008: Assessing the globally averaged sea level budget on seasonal to interannual timescales. *Journal of Geophysical Research: Oceans*, **113**, 9, <http://dx.doi.org/10.1029/2007jc004517>
- Willis, J. K. and L. L. Fu, 2008: Combining altimeter and subsurface float data to estimate the time-averaged circulation in the upper ocean. *Journal of Geophysical Research: Oceans*, **113**, <http://dx.doi.org/10.1029/2007jc004690>
- Wunsch, C. and P. Heimbach, 2008: Decadal changes in the North Atlantic and Pacific meridional overturning circulation and heat flux - Reply. *Journal of Physical Oceanography*, **38**, 2108-2110, <http://dx.doi.org/10.1175/2008jpo3936.1>
- Xie, J. P. and J. Zhu, 2008: Estimation of the surface and mid-depth currents from Argo floats in the Pacific and error analysis. *Journal of Marine Systems*, **73**, 61-75, <http://dx.doi.org/10.1016/j.jmarsys.2007.09.001>
- Xie, J. P., J. Zhu, and Y. Li, 2008: Assessment and inter-comparison of five high-resolution

- sea surface temperature products in the shelf and coastal seas around China. *Continental Shelf Research*, **28**, 1286-1293, <http://dx.doi.org/10.1016/j.csr.2008.02.020>
- Yoneyama, K., K. Katsumata, K. Mizuno, M. Yoshizaki, R. Shirooka, K. Yasunaga, H. Yamada, N. Sato, T. Ushiyama, Q. Moteki, A. Sieki, M. Fujita, K. Ando, H. Hase, I. Ueki, T. Horii, Y. Masumoto, T. Kuroda, Y. N. Takayabu, A. Shareef, Y. Fujiyoshi, M. J. McPhaden, V. S. N. Murty, C. Yokoyama, and T. Miyakawa, 2008: Mismo Field Experiment in the Equatorial Indian Ocean*. *Bulletin of the American Meteorological Society*, **89**, 1889-1903, <http://dx.doi.org/10.1175/2008BAMS2519.1>
- Zhang, Y. H., X. L. Yu, and F. Wang, 2008: Origins and pathways of the subsurface and intermediate water masses of the Indonesian Throughflow derived from historical and Argo data. *Acta Oceanologica Sinica*, **27**, 17-25,
- Zheng, Z. W., C. R. Ho, and N. J. Kuo, 2008: Importance of pre-existing oceanic conditions to upper ocean response induced by Super Typhoon Hai-Tang. *Geophysical Research Letters*, **35**, <http://dx.doi.org/10.1029/2008gl035524>

2007 (93)

- AchutaRao, K. M., M. Ishii, B. D. Santer, P. J. Gleckler, K. E. Taylor, T. P. Barnett, D. W. Pierce, R. J. Stouffer, and T. M. L. Wigley, 2007: Simulated and observed variability in ocean temperature and heat content. *Proceedings of the National Academy of Sciences of the United States of America*, **104**, 10768-10773, <http://dx.doi.org/10.1073/pnas.0611375104>
- Acreman, D. M. and C. D. Jeffery, 2007: The use of Argo for validation and tuning of mixed layer models. *Ocean Modelling*, **19**, 53-69, <http://dx.doi.org/10.1016/j.ocemod.2007.06.005>
- Agarwal, N., R. Sharma, S. Basu, and V. K. Agarwal, 2007: Derivation of Salinity Profiles in the Indian Ocean from Satellite Surface Observations. *IEEE Geoscience and Remote Sensing Letters*, **4**, 322-325, <https://doi.org/10.1109/LGRS.2007.894163>
- Aoki, S., M. Hariyama, H. Mitsudera, H. Sasaki, and Y. Sasai, 2007: Formation regions of Subantarctic Mode Water detected by OFES and Argo profiling floats. *Geophysical Research Letters*, **34**, 5, <http://dx.doi.org/10.1029/2007gl029828>
- Balmaseda, M., D. Anderson, and A. Vidard, 2007: Impact of Argo on analyses of the global ocean. *Geophysical Research Letters*, **34**, 6, <http://dx.doi.org/10.1029/2007gl030452>
- Baringer, M. and S. L. Garzoll, 2007: Meridional heat transport determined with expendable bathythermographs - Part 1: Error estimates from model and hydrographic data. *Deep Sea Research Part I: Oceanographic Research Papers*, **54**, 1390-1401, <http://dx.doi.org/10.1016/j.dsr.2007.03.011>
- Batten, S. D. and H. J. Freeland, 2007: Plankton populations at the bifurcation of the North Pacific Current. *Fisheries Oceanography*, **16**, 536-546, <http://dx.doi.org/10.1111/j.1365-2419.2007.00448.x>
- Bhaskar, T. V. S. U., D. Swain, and M. Ravichandran, 2007: Mixed layer variability in Northern Arabian Sea as detected by an Argo float. *Ocean Science Journal*, **42**, 241-246, <http://dx.doi.org/10.1007/BF03020915>

- Carmack, E. C., 2007: The alpha/beta ocean distinction: A perspective on freshwater fluxes, convection, nutrients and productivity in high-latitude seas. *Deep Sea Research Part II: Topical Studies in Oceanography*, **54**, 2578-2598, <http://dx.doi.org/10.1016/j.dsr2.2007.08.018>
- Chassignet, E. P., H. E. Hurlburt, O. M. Smedstad, G. R. Halliwell, P. J. Hogan, A. J. Wallcraft, R. Baraille, and R. Bleck, 2007: The HYCOM (HYbrid Coordinate Ocean Model) data assimilative system. *Journal of Marine Systems*, **65**, 60-83, <http://dx.doi.org/10.1016/j.jmarsys.2005.09.016>
- Chen, S. M., B. Qiu, and P. Hacker, 2007: Profiling float measurements of the recirculation gyre south of the Kuroshio Extension in May to November 2004. *Journal of Geophysical Research: Oceans*, **112**, 10, <http://dx.doi.org/10.1029/2006jc004005>
- Chinn, B. S. and S. T. Gille, 2007: Estimating eddy heat flux from float data in the North Atlantic: The impact of temporal sampling interval. *Journal of Atmospheric and Oceanic Technology*, **24**, 923-934, <http://dx.doi.org/10.1175/jtech2057.1>
- Chu, P. C., L. M. Ivanov, O. V. Melnichenko, and N. C. Wells, 2007: On long baroclinic Rossby waves in the tropical North Atlantic observed from profiling floats. *Journal of Geophysical Research: Oceans*, **112**, 24, <http://dx.doi.org/10.1029/2006jc003698>
- Crawford, W., P. J. Brickley, and A. C. Thomas, 2007: Mesoscale eddies dominate surface phytoplankton in northern Gulf of Alaska. *Progress in Oceanography*, **75**, 287-303, <http://dx.doi.org/10.1016/j.pocean.2007.08.016>
- Crawford, W., J. Galbraith, and N. Bolingbroke, 2007: Line P ocean temperature and salinity, 1956-2005. *Progress in Oceanography*, **75**, 161-178, <http://dx.doi.org/10.1016/j.pocean.2007.08.017>
- Crosnier, L. and C. Le Provost, 2007: Inter-comparing five forecast operational systems in the North Atlantic and Mediterranean basins: The MERSEA-strand1 methodology. *Journal of Marine Systems*, **65**, 354-375, <http://dx.doi.org/10.1016/j.jmarsys.2005.01.003>
- Cummins, P. F. and H. J. Freeland, 2007: Variability of the North Pacific current and its bifurcation. *Progress in Oceanography*, **75**, 253-265, <http://dx.doi.org/10.1016/j.pocean.2007.08.006>
- de Boyer Montegut, C., J. Mignot, A. Lazar, and S. Cravatte, 2007: Control of salinity on the mixed layer depth in the world ocean. 1. General description. *Journal of Geophysical Research: Oceans*, 1-12, <http://dx.doi.org/10.1029/2006jc003953>
- de Boyer Montegut, C., J. Vialard, S. S. C. Shenoi, D. Shankar, F. Durand, C. Ethe, and G. Madec, 2007: Simulated Seasonal and Interannual Variability of the Mixed Layer Heat Budget in the Northern Indian Ocean. *Journal of Climate*, **20**, 3249-3268, <http://dx.doi.org/10.1175%2FJCLI4148.1>
- Dobricic, S., N. Pinardi, M. Adani, M. Tonani, C. Fratianni, A. Bonazzi, and V. Fernandez, 2007: Daily oceanographic analyses by Mediterranean Forecasting System at the basin scale. *Ocean Science*, **3**, 149-157, <http://dx.doi.org/10.5194/os-3-149-2007>
- Dong, S., S. T. Gille, and J. Sprintall, 2007: An assessment of the Southern Ocean mixed layer heat budget. *Journal of Climate*, 4425-42, <http://dx.doi.org/10.1175/jcli4259.1>
- Durand, F., D. Shankar, C. D. B. Montegut, S. S. C. Shenoi, B. Blanke, and G. Madec, 2007: Modeling the barrier-layer formation in the southeastern Arabian Sea. *Journal of*

- Climate*, **20**, 2109-2120, <http://dx.doi.org/10.1175/jcli4112.1>
- Forget, G. and C. Wunsch, 2007: Estimated global hydrographic variability. *Journal of Physical Oceanography*, **37**, 1997-2008, <http://dx.doi.org/10.1175/jpo3072.1>
- Freeland, H. J., D. Roemmich, W. J. Gould, and M. Belbeoch, 2007: Argo - a global ocean observing system for the 21st century. *The Full Picture, Group on Earth Observations (GEO)*, 67-71, https://www.earthobservations.org/documents/the_full_picture.pdf
- Garzoli, S. L. and M. O. Baringer, 2007: Meridional heat transport determined with expandable bathythermographs - Part II: South Atlantic transport. *Deep Sea Research Part I: Oceanographic Research Papers*, **54**, 1402-1420, <http://dx.doi.org/10.1016/j.dsr.2007.04.013>
- Hackert, E., J. Ballabrera-Poy, A. J. Busalacchi, R. H. Zhang, and R. Murtugudde, 2007: Comparison between 1997 and 2002 El Nino events: Role of initial state versus forcing. *Journal of Geophysical Research: Oceans*, **112**, 20, <http://dx.doi.org/10.1029/2006jc003724>
- Hadfield, R. E., N. C. Wells, S. A. Josey, and J. J. M. Hirschi, 2007: On the accuracy of North Atlantic temperature and heat storage fields from Argo. *Journal of Geophysical Research: Oceans*, **112**, 17, <http://dx.doi.org/10.1029/2006jc003825>
- Hu, H., Q. Liu, X. Lin, and W. Liu, 2007: The South Pacific Subtropical Mode Water in the Tasman Sea. *Journal of Ocean University of China*, **6**, 107-116, <http://dx.doi.org/10.1007/s11802-007-0107-5>
- Huang, Y. P., L. J. Kao, and F. E. Sandnes, 2007: Predicting ocean salinity and temperature variations using data mining and fuzzy inference. *International Journal of Fuzzy Systems*, **9**, 143-151,
- Hyrenbach, K. D., R. R. Veit, H. Weimerskirch, N. Metz, and G. L. Hunt Jr, 2007: Community structure across a large-scale ocean productivity gradient: Marine bird assemblages of the Southern Indian Ocean. *Deep Sea Research Part I: Oceanographic Research Papers*, **54**, 1129-1145, <http://dx.doi.org/10.1016/j.dsr.2007.05.002>
- Ingleby, B. and M. Huddleston, 2007: Quality control of ocean temperature and salinity profiles - Historical and real-time data. *Journal of Marine Systems*, **65**, 158-175, <http://dx.doi.org/10.1016/j.jmarsys.2005.11.019>
- Iudicone, D., K. B. Rodgers, R. Schopp, and G. Madec, 2007: An exchange window for the injection of Antarctic Intermediate Water into the South Pacific. *Journal of Physical Oceanography*, **37**, 31-49, <http://dx.doi.org/10.1175/JPO2985.1>
- Ivchenko, V. O., S. D. Danilov, D. V. Sidorenko, J. Schroter, M. Wenzel, and D. L. Aleynik, 2007: Comparing the steric height in the Northern Atlantic with satellite altimetry. *Ocean Science*, **3**, 485-490, <http://dx.doi.org/10.5194/os-3-485-2007>
- Johnson, G. C. and J. M. Lyman, 2007: Global Oceans: Sea Surface Salinity. *Bulletin of the American Meteorological Society*, **88**, S34-S35, <http://dx.doi.org/10.1175/BAMS-88-6-StateoftheClimate>
- Johnson, G. C., J. M. Lyman, and J. K. Willis, 2007: Global Oceans: Heat Content. *Bulletin of the American Meteorological Society*, **88**, S31-S33, <http://dx.doi.org/10.1175/BAMS-88-6-StateoftheClimate>
- Johnson, G. C., J. M. Toole, and N. G. Larson, 2007: Sensor corrections for sea-bird SBE-41CP

- and SBE-41 CTDs. *Journal of Atmospheric and Oceanic Technology*, **24**, 1117-1130, <http://dx.doi.org/10.1175/jtech2016.1>
- Kako, S. and M. Kubota, 2007: Variability of mixed layer depth in Kuroshio/Oyashio Extension region: 2005-2006. *Geophysical Research Letters*, **34**, 4, <http://dx.doi.org/10.1029/2007gl030362>
- Kikuchi, T., J. Inoue, and D. Langevin, 2007: Argo-type profiling float observations under the Arctic multiyear ice. *Deep Sea Research Part I: Oceanographic Research Papers*, **54**, 1675-1686, <http://dx.doi.org/10.1016/j.dsr.2007.05.011>
- Klatt, O., O. Boebel, and E. Fahrbach, 2007: A profiling float's sense of ice. *Journal of Atmospheric and Oceanic Technology*, **24**, 1301-1308, <http://dx.doi.org/10.1175/JTECH2026.1>
- Kohl, A., D. Stammer, and B. Cornuelle, 2007: Interannual to decadal changes in the ECCO global synthesis. *Journal of Physical Oceanography*, **37**, 313-337, <http://dx.doi.org/10.1175/jpo3014.1>
- Krishnamurti, T. N., A. Chakraborty, R. Krishnamurti, W. K. Dewar, and C. A. Clayson, 2007: Passage of intraseasonal waves in the subsurface oceans. *Geophysical Research Letters*, **34**, 5, <http://dx.doi.org/10.1029/2007gl030496>
- Lebedev, K. V., H. Yoshinari, N. A. Maximenko, and P. Hacker, 2007: YoMaHa'07: Velocity data assessed from trajectories of Argo floats at parking level and at the sea surface. *IPRC Technical Note*, **4**, <http://apdrc.soest.hawaii.edu/projects/yomaha/yomaha07/YoMaHa070612.pdf>
- Liu, Z., J. Xu, B. Zhu, C. Sun, and L. Zhang, 2007: The upper ocean response to tropical cyclones in the northwestern Pacific analyzed with Argo data. *Chinese Journal of Oceanology and Limnology*, **25**, 123-131, <http://dx.doi.org/10.1007/s00343-007-0123-8>
- Mackas, D. L., S. Batten, and M. Trudel, 2007: Effects on zooplankton of a warmer ocean: Recent evidence from the Northeast Pacific. *Progress in Oceanography*, **75**, 223-252, <http://dx.doi.org/10.1016/j.pocean.2007.08.010>
- Maes, C., L. Gourdeau, X. Couvelard, and A. Ganachaud, 2007: What are the origins of the Antarctic intermediate waters transported by the North Caledonian Jet? *Geophysical Research Letters*, L21608-1-5, <http://dx.doi.org/10.1029/2007gl031546>
- Martin, A. J., A. Hines, and M. J. Bell, 2007: Data assimilation in the FOAM operational short-range ocean forecasting system: A description of the scheme and its impact. *Quarterly Journal of the Royal Meteorological Society*, **133**, 981-995, <http://dx.doi.org/10.1002/qj.74>
- Marullo, S., B. Buongiorno Nardelli, M. Guarracino, and R. Santoleri, 2007: Observing the Mediterranean Sea from space: 21 years of Pathfinder-AVHRR sea surface temperatures (1985 to 2005): re-analysis and validation. *Ocean Science*, **3**, 299-310, <http://dx.doi.org/10.5194/os-3-299-2007>
- Matthews, A. J., P. Singhruck, and K. J. Heywood, 2007: Deep ocean impact of a Madden-Julian Oscillation observed by Argo floats. *Science*, **318**, 1765-1769, <http://dx.doi.org/10.1126/science.1147312>
- Mignot, J., C. D. Montegut, A. Lazar, and S. Cravatte, 2007: Control of salinity on the mixed layer depth in the world ocean: 2. Tropical areas. *Journal of Geophysical Research*:

- Oceans*, **112**, <http://dx.doi.org/10.1029/2006jc003954>
- Muraleedharan, K. R., P. Jasmine, C. T. Achuthankutty, C. Revichandran, P. K. Dinesh Kumar, P. Anand, and G. Rejomon, 2007: Influence of basin-scale and mesoscale physical processes on biological productivity in the Bay of Bengal during the summer monsoon. *Progress in Oceanography*, **72**, 364-383, <http://dx.doi.org/10.1016/j.pocean.2006.09.012>
- Nanjundiah, R. S. and T. N. Krishnamurti, 2007: Intraseasonal oscillation of tropical convergence zones: Theory and prediction. *Current Science*, **93**, 173-181, http://www.currentscience.ac.in/php/show_article.php?volume=093&issue=02&titleid=id_093_02_0173_0181_0&page=0173
- Nittis, K., C. Tziavos, R. Bozzano, V. Cardin, Y. Thanos, G. Petihakis, M. E. Schiano, and F. Zanon, 2007: The M3A multi-sensor buoy network of the Mediterranean Sea. *Ocean Science*, **3**, 229-243, <http://dx.doi.org/10.5194/os-3-229-2007>
- Oka, E., L. D. Talley, and T. Suga, 2007: Temporal variability of winter mixed layer in the mid-to high-latitude North Pacific. *Journal of Oceanography*, **63**, 293-307, <http://dx.doi.org/10.1007/s10872-007-0029-2>
- Oke, P. R. and A. Schiller, 2007: Impact of Argo, SST, and altimeter data on an eddy-resolving ocean reanalysis. *Geophysical Research Letters*, **34**, <http://dx.doi.org/10.1029/2007gl031549>
- Oke, P. R. and A. Schiller, 2007: A model-based assessment and design of a tropical Indian Ocean mooring array. *Journal of Climate*, **20**, 3269-3283, <http://dx.doi.org/10.1175/jcli4170.1>
- Palmer, M. D., K. Haines, S. F. B. Tett, and T. J. Ansell, 2007: Isolating the signal of ocean global warming. *Geophysical Research Letters*, <http://dx.doi.org/10.1029/2007GL031712>
- Park, J. J. and K. Kim, 2007: Evaluation of calibrated salinity from profiling floats with high resolution conductivity-temperature-depth data in the East/Japan Sea. *Journal of Geophysical Research: Oceans*, **112**, 9, <http://dx.doi.org/10.1029/2006jc003869>
- Pizzigalli, C. and V. Rupolo, 2007: Simulations of ARGO profilers and of surface floating objects: applications in MFSTEP. *Ocean Science*, **3**, 205-222, <http://dx.doi.org/10.5194/os-3-205-2007>
- Pollard, R. T., H. J. Venables, J. F. Read, and J. T. Allen, 2007: Large-scale circulation around the Crozet Plateau controls an annual phytoplankton bloom in the Crozet Basin. *Deep Sea Research Part I: Topical Studies in Oceanography*, **54**, 1915-1929, <http://dx.doi.org/10.1016/j.dsr2.2007.06.012>
- Poulain, P. M., R. Barbanti, J. Font, A. Cruzado, C. Millot, I. Gertman, A. Griffa, A. Molcard, V. Rupolo, S. Le Bras, and L. P. de la Villeon, 2007: MedArgo: a drifting profiler program in the Mediterranean Sea. *Ocean Science*, **3**, 379-395, <http://dx.doi.org/10.5194/os-3-379-2007>
- Power, S. B., N. Plummer, and P. Alford, 2007: Making climate model forecasts more useful. *Australian Journal of Agricultural Research*, **58**, 945-951, <http://dx.doi.org/10.1071/ar06196>
- Pun, I.-F., Lin, H., C. R. Wu, D. H. Ko, and W. T. Liu, 2007: Validation and application of altimetry-derived upper ocean thermal structure in the western North Pacific Ocean

- for typhoon-intensity forecast. *Ieee Transactions on Geoscience and Remote Sensing*, **45**, 1616-1630, <http://dx.doi.org/10.1109/tgrs.2007.895950>
- Qiu, B., S. M. Chen, and P. Hacker, 2007: Effect of mesoscale eddies on subtropical mode water variability from the Kuroshio Extension System Study (KESS). *Journal of Physical Oceanography*, **37**, 982-1000, <http://dx.doi.org/10.1175/jpo3097.1>
- Reverdin, G., P. Blouch, J. Boutin, P. P. Niiler, J. Rolland, W. Scuba, A. Lourenco, and A. F. Rios, 2007: Surface salinity measurements - COSMOS 2005 experiment in the Bay of Biscay. *Journal of Atmospheric and Oceanic Technology*, **24**, 1643-1654, <http://dx.doi.org/10.1175/jtech2079.1>
- Roemmich, D., 2007: Physical oceanography - Super spin in the southern seas. *Nature*, **449**, 34-35, <http://dx.doi.org/10.1038/449034a>
- Roemmich, D., J. Gilson, R. Davis, P. Sutton, S. Wijffels, and S. Riser, 2007: Decadal spinup of the South Pacific subtropical gyre. *Journal of Physical Oceanography*, **37**, 162-173, <http://dx.doi.org/10.1175/jpo3004.1>
- Rogachev, K., N. Shlyk, and E. Carmack, 2007: The shedding of mesoscale anticyclonic eddies from the Alaskan Stream and westward transport of warm water. *Deep Sea Research Part I: Topical Studies in Oceanography*, **54**, 2643-2656, <http://dx.doi.org/10.1016/j.dsr2.2007.08.017>
- Rong, Z., Y. Liu, H. Zong, and Y. Cheng, 2007: Interannual sea level variability in the South China Sea and its response to ENSO. *Global and Planetary Change*, **55**, 257-272, <http://dx.doi.org/10.1016/j.gloplacha.2006.08.001>
- Ruiz, S., D. Gomis, and J. Font, 2007: Recovery of North-East Atlantic temperature fields from profiling floats: Determination of the optimal float number from sampling and instrumental error analysis. *Journal of Marine Systems*, **65**, 212-223, <http://dx.doi.org/10.1016/j.jmarsys.2005.04.012>
- Schiermeier, Q., 2007: Earth monitoring: Observing the ocean from within. *Nature*, **450**, 780-781, <http://dx.doi.org/10.1038/450780a>
- Schmid, C., R. L. Molinari, R. Sabina, Y. H. Daneshzadeh, X. D. Xia, E. Forteza, and H. Q. Yang, 2007: The real-time data management system for argo profiling float observations. *Journal of Atmospheric and Oceanic Technology*, **24**, 1608-1628, <http://dx.doi.org/10.1175/jtech2070.1>
- Schneider, W., M. Fukasawa, J. Garces-Vargas, L. Bravo, H. Uchida, T. Kawano, and R. Fuenzalida, 2007: Spin-up of South Pacific subtropical gyre freshens and cools the upper layer of the eastern South Pacific Ocean. *Geophysical Research Letters*, **34**, <http://dx.doi.org/10.1029/2007gl031933>
- Sloyan, B. M. and I. V. Kamenkovich, 2007: Simulation of Subantarctic Mode and Antarctic Intermediate Waters in climate models. *Journal of Climate*, **20**, 5061-5080, <http://dx.doi.org/10.1175/jcli4295.1>
- Smith, D. M. and J. M. Murphy, 2007: An objective ocean temperature and salinity analysis using covariances from a global climate model. *Journal of Geophysical Research: Oceans*, **112**, 19, <http://dx.doi.org/10.1029/2005jc003172>
- Stammer, D., A. Kohl, and C. Wunsch, 2007: Impact of accurate geoid fields on estimates of the ocean circulation. *Journal of Atmospheric and Oceanic Technology*, **24**, 1464-1478, <http://dx.doi.org/10.1175/jtech2044.1>

- Sugimoto, S. and K. Hanawa, 2007: Further evidence for non-reemergence of winter SST anomalies in the North Pacific eastern subtropical mode water area. *Journal of Oceanography*, **63**, 625-635, <http://dx.doi.org/10.1007/s10872-007-0055-0>
- Thadathil, P., P. M. Muraleedharan, R. R. Rao, Y. K. Somayajulu, G. V. Reddy, and C. Revichandran, 2007: Observed seasonal variability of barrier layer in the Bay of Bengal. *Journal of Geophysical Research: Oceans*, **112**, 18, <http://dx.doi.org/10.1029/2006jc003651>
- Tomczak, M., 2007: Variability of antarctic intermediate water properties in the south pacific ocean. *Ocean Science*, **3**, 363-377, <http://dx.doi.org/10.5194/os-3-363-2007>
- Ueno, H., E. Oka, T. Suga, H. Onishi, and D. Roemmich, 2007: Formation and variation of temperature inversions in the eastern subarctic North Pacific. *Geophysical Research Letters*, **34**, 4, <http://dx.doi.org/10.1029/2006gl028715>
- Uz, B. M., 2007: What causes the sporadic phytoplankton bloom southeast of Madagascar? *Journal of Geophysical Research: Oceans*, **112**, <http://dx.doi.org/10.1029/2006jc003685>
- Vecchi, G. A. and M. J. Harrison, 2007: An observing system simulation experiment for the Indian Ocean. *Journal of Climate*, **20**, 3300-3319, <http://dx.doi.org/10.1175/jcli4147.1>
- Venables, H., R. T. Pollard, and E. E. Popova, 2007: Physical conditions controlling the development of a regular phytoplankton bloom north of the Crozet Plateau, Southern Ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, **54**, 1949-1965, <http://dx.doi.org/10.1016/j.dsr2.2007.06.014>
- Vidard, A., D. L. T. Anderson, and M. Balmaseda, 2007: Impact of ocean observation systems on ocean analysis and seasonal forecasts. *Monthly Weather Review*, **135**, 409-429, <http://dx.doi.org/10.1175/mwr3310.1>
- Wajsowicz, R. C., 2007: Seasonal-to-interannual forecasting of tropical Indian Ocean sea surface temperature anomalies: Potential predictability and barriers. *Journal of Climate*, **20**, 3320-3343, <http://dx.doi.org/10.1175/jcli4162.1>
- Whitney, F. A., H. J. Freeland, and M. Robert, 2007: Persistently declining oxygen levels in the interior waters of the eastern subarctic Pacific. *Progress in Oceanography*, **75**, 179-199, <http://dx.doi.org/10.1016/j.pocean.2007.08.007>
- Willis, J. K., J. M. Lyman, G. C. Johnson, and J. Gilson, 2007: Correction to Recent cooling of the upper ocean. *Geophysical Research Letters*, **34**, <http://dx.doi.org/10.1029/2007GL030323>
- Wunsch, C. and P. Heimbach, 2007: Practical global oceanic state estimation. *Physica D-Nonlinear Phenomena*, **230**, 197-208, <http://dx.doi.org/10.1016/j.physd.2006.09.040>
- Wunsch, C., R. M. Ponte, and P. Heimbach, 2007: Decadal trends in sea level patterns: 1993-2004. *Journal of Climate*, **20**, 5889-5911, <http://dx.doi.org/10.1175/2007jcli1840.1>
- Yan, C. X., J. Zhu, and G. Q. Zhou, 2007: Impacts of XBT, TAO, altimetry and ARGO observations on the tropical Pacific Ocean data assimilation. *Advances in Atmospheric Sciences*, **24**, 383-398, <http://dx.doi.org/10.1007/s00376-007-0383-4>
- Yasuda, I. and T. Watanabe, 2007: Chlorophyll a variation in the Kuroshio Extension revealed with a mixed-layer tracking float: implication on the long-term change of Pacific

- saury (*Cololabis saira*). *Fisheries Oceanography*, **16**, 482-488, <http://dx.doi.org/10.1111/j.1365-2419.2007.00457.x>
- Yeager, S. G. and W. G. Large, 2007: Observational evidence of winter spice injection. *Journal of Physical Oceanography*, **37**, 2895-2919, <http://dx.doi.org/10.1175/2007jpo3629.1>
- Zhang, S., M. J. Harrison, A. Rosati, and A. Wittenberg, 2007: System design and evaluation of coupled ensemble data assimilation for global oceanic climate studies. *Monthly Weather Review*, **135**, 3541-3564, <http://dx.doi.org/10.1175/mwr3466.1>
- Zhou, H., P. F. Guo, J. P. Xu, and M. C. Shi, 2007: Direct measurements of surface and mid-depth circulation in the Shikoku Basin by Argo profiling floats. *Acta Oceanologica Sinica*, **26**, 1-11,

2006 (82)

- Aagaard, K., T. J. Weingartner, S. L. Danielson, R. A. Woodgate, G. C. Johnson, and T. E. Whitledge, 2006: Some controls on flow and salinity in Bering Strait. *Geophysical Research Letters*, **33**, <http://dx.doi.org/10.1029/2006GL026612>
- Agarwal, N., R. Sharma, S. Basu, and V. K. Agarwal, 2006: Impact of Argo data assimilation in an Ocean General Circulation Model - art. no. 64040Z. *Remote Sensing and Modeling of the Atmosphere, Oceans, and Interactions*, **6404**, Z4040-Z4040, <http://dx.doi.org/10.1117/12.693674>
- Alverson, K. and D. J. Baker, 2006: Taking the pulse of the oceans. *Science*, **314**, 1657-1657, <http://dx.doi.org/10.1126/science.1135358>
- Avsic, T., J. Karstensen, U. Send, and J. Fischer, 2006: Internal variability of newly formed Labrador Sea Water from 1994-2005. *Geophysical Research Letters*, **33**, 1-6, <http://dx.doi.org/10.1029/2006gl026913>
- Batten, S. D., K. David Hyrenbach, W. J. Sydeman, K. H. Morgan, M. F. Henry, P. P. Y. Yen, and D. W. Welch, 2006: Characterising meso-marine ecosystems of the North Pacific. *Deep Sea Research Part II: Topical Studies in Oceanography*, **53**, 270-290, <https://doi.org/10.1016/j.dsr2.2006.01.004>
- Bhaskar, T. V. S. U., D. Swain, and M. Ravichandran, 2006: Inferring mixed-layer depth variability from Argo observations in the western Indian Ocean. *Journal of Marine Research*, **64**, 393-406, <https://doi.org/10.1357/002224006778189572>
- Bingham, F. M. and T. Suga, 2006: Distributions of mixed layer properties in North Pacific water mass formation areas: comparison of Argo floats and World Ocean Atlas 2001. *Ocean Science*, **2**, 61-70, <http://dx.doi.org/10.5194/os-2-61-2006>
- Boutin, J. and N. Martin, 2006: ARGO upper salinity measurements: perspectives for L-band radiometers calibration and retrieved sea surface salinity validation. *Ieee Geoscience and Remote Sensing Letters*, **3**, 202-206, <https://doi.org/10.1109/LGRS.2005.861930>
- Che, Y., R. Zheng, G. R. Jiang, and e. al, 2006: The type judge and characteristic analyses of the thermocline in the Pacific Ocean. Collection of Argo Application Papers *China Ocean Press*, 204-214,
- Chen, Y., R. Zheng, and G. R. Jiang, 2006: Evaluation and analysis of Mid-Depth currents of the equatorial Pacific using Argo float position information. *Marine Forecasts*, **23**, 37-46,

- Chen, Y., R. Zheng, and G. R. Jiang, 2006: A diagnostic analyses on the mid-depth currents of the equatorial Pacific. Collection of Argo Application Papers. *China Ocean Press*, 128-138,
- Emelianov, M., J. Font, A. Turiel, C. Millot, J. Sole, P. M. Poulain, A. Julia, and M. R. Vitria, 2006: Transformation of Levantine Intermediate Water tracked by MEDARGO floats in the Western Mediterranean. *Ocean Science*, **2**, 281-290, <https://doi.org/10.5194/os-2-281-2006>
- Emery, W. J., P. Brandt, A. Funk, and C. Boning, 2006: A comparison of sea surface temperatures from microwave remote sensing of the Labrador Sea with in situ measurements and model simulations. *J. Geophys. Res.*, **111**, <http://dx.doi.org/10.1029/2006JC003578>
- Fengying, J. and F. Wang, 2006: A calibration method of Argo floats based on multiple regression analysis. *Chinese Journal of Oceanology and Limnology*, **24**, 118-124, <http://dx.doi.org/10.1007/BF02842809>
- Fraile-Nuez, E. and A. Hernandez-Guerra, 2006: Wind-driven circulation for the eastern North Atlantic Subtropical Gyre from Argo data. *Geophysical Research Letters*, **33**, 4, <http://dx.doi.org/10.1029/2005gl025122>
- Freeland, H. J., 2006: What proportion of the North Pacific Current finds its way into the Gulf of Alaska? *Atmosphere-Ocean*, **44**, 321-330, <http://dx.doi.org/10.3137/ao.440401>
- Gould, W. J., 2006: Argo - a revolution in observing the oceans' interior. *World Maritime Technology Conference*, Queen Elizabeth Conference Centre, London,
- Gould, W. J. and J. Turton, 2006: Argo -Sounding the oceans. *Weather*, **61**, 17-21, <http://dx.doi.org/10.1256/wea.56.05>
- Griffa, A., A. Molcard, F. Raicich, and V. Rupolo, 2006: Assessment of the impact of TS assimilation from ARGO floats in the Mediterranean Sea. *Ocean Science*, **2**, 237-248, <https://doi.org/10.5194/os-2-237-2006>
- Guinehut, S., P.-Y. Le Traon, and G. Larnicol, 2006: What can we learn from Global Altimetry/Hydrography comparisons? *Geophysical Research Letters*, **33**, <http://dx.doi.org/10.1029/2005GL025551>
- Guo, J., J. P. Xie, and J. Zhu, 2006: Estimation of the surface and mid-depth currents of the equatorial Pacific. Collection of Argo Application Papers. *China Ocean Press*, 111-127,
- Haines, K., J. D. Blower, J.-P. Drecourt, C. Liu, A. Vidard, I. Astin, and X. Zhou, 2006: Salinity Assimilation Using S(T): Covariance Relationships. *Monthly Weather Review*, **134**, 759-771, <http://dx.doi.org/10.1175%2FMWR3089.1>
- He, Z. J., Y. F. Xie, and W. Li, 2006: Application of sequential 3 dimensional variation on assimilating Argo in a global ocean model. Collection of Argo Application papers. *China Ocean Press*,
- Hosoda, S., S. Minato, and N. Shikama, 2006: Seasonal temperature variation below the thermocline detected by Argo floats. *Geophysical Research Letters*, **33**, 5, <http://dx.doi.org/10.1029/2006gl026070>
- Isoguchi, O., H. Kawamura, and E. Oka, 2006: Quasi-stationary jets transporting surface warm waters across the transition zone between the subtropical and the subarctic gyres in the North Pacific. *J. Geophys. Res.*, **111**,

- <http://dx.doi.org/10.1029/2005JC003402>
- Ivchenko, V. O., N. C. Wells, and D. L. Aleynik, 2006: Anomaly of heat content in the northern Atlantic in the last 7 years: Is the ocean warming or cooling? *Geophysical Research Letters*, **33**, 6, <http://dx.doi.org/10.1029/2006gl027691>
- Iwasaka, N., F. Kobashi, Y. Kinoshita, and Y. Ohno, 2006: Seasonal variations of the upper ocean in the western North Pacific observed by an Argo float. *Journal of Oceanography*, **62**, 481-492, <http://dx.doi.org/10.1007/s10872-006-0070-6>
- Jackson, J. M., P. G. Myers, and D. Ianson, 2006: An examination of advection in the northeast Pacific Ocean, 2001-2005. *Geophysical Research Letters*, **33**, 5, <http://dx.doi.org/10.1029/2006gl026278>
- Jayne, S. R., 2006: Circulation of the North Atlantic Ocean from altimetry and the Gravity Recovery and Climate Experiment geoid. *J. Geophys. Res.*, **111**, <http://dx.doi.org/10.1029/2005JC003128>
- Johns, T. C., C. F. Durman, H. T. Banks, M. J. Roberts, A. J. McLaren, J. K. Ridley, C. A. Senior, K. D. Williams, A. Jones, G. J. Rickard, S. Cusack, W. J. Ingram, M. Crucifix, D. M. H. Sexton, M. M. Joshi, B.-W. Dong, H. Spencer, R. S. R. Hill, J. M. Gregory, A. B. Keen, A. K. Pardaens, J. A. Lowe, A. Bodas-Salcedo, S. Stark, and Y. Searl, 2006: The New Hadley Centre Climate Model (HadGEM1): Evaluation of Coupled Simulations. *Journal of Climate*, **19**, 1327-1353, <http://dx.doi.org/10.1175%2FJCLI3712.1>
- Johnson, G. C., 2006: Generation and initial evolution of a mode water theta-S anomaly. *Journal of Physical Oceanography*, **36**, 739-751, <http://dx.doi.org/10.1175/JPO2895.1>
- Johnson, G. C., J. M. Lyman, and J. K. Willis, 2006: Global Oceans: Heat Content *Bulletin of the American Meteorological Society*, **87**, s23-s24, <http://dx.doi.org/10.1175%2FBAMS-87-6-shein>
- Jordi, A., G. Basterretxea, A. Orfila, and J. Tintore, 2006: Analysis of the circulation and shelf-slope exchanges in the continental margin of the northwestern Mediterranean. *Ocean Science*, **2**, 173-181, <https://doi.org/10.5194/os-2-173-2006>
- Karstensen, J., T. Avsic, J. Fischer, and U. Send, 2006: Subsurface temperature maxima in the Labrador Sea and the subpolar North Atlantic. *Geophysical Research Letters*, **33**, 1-6, <http://dx.doi.org/10.1029/2006gl026613>
- Kieke, D., M. Rhein, L. Stramma, W. M. Smethie, D. A. LeBel, and W. Zenk, 2006: Changes in the CFC inventories and formation rates of Upper Labrador Sea Water, 1997-2001. *Journal of Physical Oceanography*, **36**, 64-86, <http://dx.doi.org/10.1175/JPO2814.1>
- Kim, E., Y. J. Ro, and Y. H. Youn, 2006: Structure of the Temperature and Salinity in 2003-2005 Profiled by the Argo Floats around the Ulleung-do area in the East Sea. *Journal of the Korean Society of Oceanography*, **11**, 21-30,
- Kington, J. A. and F. Selinger, 2006: The development and use of weather buoys 1940-2005. *Weather*, **61**, 164-166, <http://dx.doi.org/10.1256/wea.247.05>
- Kobayashi, T. and T. Suga, 2006: The Indian Ocean HydroBase: A high-quality climatological dataset for the Indian Ocean. *Progress in Oceanography*, **68**, 75-114, <http://dx.doi.org/10.1016/j.pocean.2005.07.001>
- Korotaev, G., T. Oguz, and S. Riser, 2006: Intermediate and deep currents of the Black Sea obtained from autonomous profiling floats. *Deep Sea Research Part II: Topical Studies in Oceanography*, **53**, 1901-1910, <https://doi.org/10.1016/j.dsr2.2006.04.017>

- Lankhorst, M. and W. Zenk, 2006: Lagrangian Observations of the Middepth and Deep Velocity Fields of the Northeastern Atlantic Ocean. *Journal of Physical Oceanography*, **36**, 43-63, <http://dx.doi.org/10.1175%2FJPO2869.1>
- Liu, Y., R. Zheng, and Y. H. Yin, 2006: The application of Argo data to a global 4-dimensional ocean data assimilation system. Collection of Argo Application papers. *China Ocean Press*, 139-150,
- Liu, Z.-H., J. P. Xu, and Y. R. Xiu, 2006: The effect of reference dataset on calibration of Argo profiling float salinity data. . *Marine Forecasts*, **23**, 1-12,
- Liu, Z.-H., J. P. Xu, and B. K. Zhu, 2006: Upper ocean response to the tropical cyclones in the northwestern Pacific by Argo data. Collection of Argo Application papers. *China Ocean Press*, 88-99,
- Liu, Z.-H., J. P. Xu, and B. K. Zhu, 2006: Calibration of Argo profiling Float salinity data using historical hydrographic data. Collection of Argo Application papers. *China Ocean Press*, 223-240,
- Lyman, J. M., J. K. Willis, and G. C. Johnson, 2006: Recent cooling of the upper ocean. *Geophysical Research Letters*, **33**, <http://dx.doi.org/10.1029/2006GL027033>
- Machin, F., U. Send, and W. Zenk, 2006: Intercomparing drifts from RAFOS and profiling floats in the Deep Western Boundary Current along the Mid-Atlantic Ridge. *Scientia Marina*, **70**, 1-8, <http://dx.doi.org/10.3989/scimar.2006.70n11>
- MacKenzie, A., 2006: Charting the Deep Ocean Currents: The Argo Programme. *e.nz magazine*, **7**, 36-39, <http://search.informit.com.au/documentSummary;dn=928636688904665;res=IELENG>
- Maes, C., K. Ando, T. Delcroix, W. S. Kessler, M. J. McPhaden, and D. Roemmich, 2006: Observed correlation of surface salinity, temperature and barrier layer at the eastern edge of the western Pacific warm pool. *Geophysical Research Letters*, **33**, 4 pp., <http://dx.doi.org/10.1029/2005gl024772>
- Narvekar, J. and S. Prasanna Kumar, 2006: Seasonal variability of the mixed layer in the central Bay of Bengal and associated changes in nutrients and chlorophyll. *Deep Sea Research Part I: Oceanographic Research Papers*, **53**, 820-835, <https://doi.org/10.1016/j.dsr.2006.01.012>
- Ollitrault, M., M. Lankhorst, D. Fratantoni, P. Richardson, and W. Zenk, 2006: Zonal intermediate currents in the equatorial Atlantic Ocean. *Geophysical Research Letters*, **33**, 4, <http://dx.doi.org/10.1029/2005gl025368>
- Pan, A. and X. G. Guo, 2006: A preliminary study of the formation zone of the North Pacific subtropical mode water. Collection of Argo Application papers. *China Ocean Press*, 62-71,
- Panteleev, G. G., P. Stabeno, V. A. Luchin, D. A. Nechaev, and M. Ikeda, 2006: Summer transport estimates of the Kamchatka Current derived as a variational inverse of hydrophysical and surface drifter data. *Geophysical Research Letters*, **33**, 5, <http://dx.doi.org/10.1029/2005gl024974>
- Peng, G., E. P. Chassignet, Y. O. Kwon, and S. C. Riser, 2006: Investigation of variability of the North Atlantic Subtropical Mode Water using profiling float data and numerical model output. *Ocean Modelling*, **13**, 65-85,

- <http://dx.doi.org/10.1016/j.ocemod.2005.07.001>
- Qiu, B. and S. Chen, 2006: Decadal Variability in the Formation of the North Pacific Subtropical Mode Water: Oceanic versus Atmospheric Control. *Journal of Physical Oceanography*, **36**, 1365-1380, <http://dx.doi.org/10.1175%2FJPO2918.1>
- Qiu, B., P. Hacker, S. M. Chen, K. A. Donohue, D. R. Watts, H. Mitsudera, N. G. Hogg, and S. R. Jayne, 2006: Observations of the subtropical mode water evolution from the Kuroshio Extension System Study. *Journal of Physical Oceanography*, **36**, 457-473, <http://dx.doi.org/10.1175/JPO2849.1>
- Raichich, F., 2006: The assessment of temperature and salinity sampling strategies in the Mediterranean Sea: idealized and real cases. *Ocean Science*, **2**, 97-112, <https://doi.org/10.5194/os-2-97-2006>
- Saha, S., S. Nadiga, C. Thiaw, J. Wang, W. Wang, Q. Zhang, H. M. Van den Dool, H.-L. Pan, S. Moorthi, D. Behringer, D. Stokes, M. Pena, S. Lord, G. White, W. Ebisuzaki, P. Peng, and P. Xie, 2006: The NCEP Climate Forecast System. *Journal of Climate*, **19**, 3483-3517, <http://dx.doi.org/10.1175%2FJCLI3812.1>
- Sallee, J. B., N. Wienders, K. Speer, and R. Morrow, 2006: Formation of subantarctic mode water in the southeastern Indian Ocean. *Ocean Dynamics*, **56**, 525-542, <http://dx.doi.org/10.1007/s10236-005-0054-x>
- Sato, K., T. Suga, and K. Hanawa, 2006: Barrier layers in the subtropical gyres of the world's oceans. *Geophysical Research Letters*, **33**, 4, <http://dx.doi.org/10.1029/2005gl025631>
- Sato, N., H. Tokinaga, R. Shirooka, and N. Suginohara, 2006: Influence of mechanical mixing on a low summertime SST in the western North Pacific ITCZ region. *Geophysical Research Letters*, **33**, 5, <http://dx.doi.org/10.1029/2006gl025997>
- Schneider, W. and L. Bravo, 2006: Argo profiling floats document Subantarctic Mode Water formation west of Drake Passage. *Geophysical Research Letters*, **33**, 4, <http://dx.doi.org/10.1029/2006gl026463>
- She, X., W. Fan, and X. D. Chen, 2006: Application of Argo floats datum to analysis longline bigeye tuna fishing grounds in the eastern and central Pacific Ocean. Collection of Argo Application papers. *China Ocean Press*, 215-222,
- Steiner, N., K. Denman, N. McFarlane, and L. Solheim, 2006: Simulating the coupling between atmosphere-ocean processes and the planktonic ecosystem during SERIES. *Deep Sea Research Part II: Topical Studies in Oceanography*, **53**, 2434-2454, <https://doi.org/10.1016/j.dsr2.2006.05.030>
- Straneo, F., 2006: Heat and freshwater transport through the central Labrador Sea. *Journal of Physical Oceanography*, **36**, 606-628, <http://dx.doi.org/10.1175/JPO2875.1>
- Taillandier, V. and A. Griffa, 2006: Implementation of position assimilation for ARGO floats in a realistic Mediterranean Sea OPA model and twin experiment testing. *Ocean Science*, **2**, 223-236, <https://doi.org/10.5194/os-2-223-2006>
- Taillandier, V., A. Griffa, and A. Molcard, 2006: A variational approach for the reconstruction of regional scale Eulerian velocity fields from Lagrangian data. *Ocean Modelling*, **13**, 1-24, <https://doi.org/10.1016/j.ocemod.2005.09.002>
- Taillandier, V., A. Griffa, P. M. Poulain, and K. Beranger, 2006: Assimilation of Argo float positions in the north western Mediterranean Sea and impact on ocean circulation simulations. *Geophysical Research Letters*, **33**, 5,

- <http://dx.doi.org/10.1029/2005gl025552>
- Teng, J., Z.-H. Liu, and M. X. Sun, 2006: Development of Online Argo Data Service Platform Based on GIS. *The Proceedings of IGARSS2006*, Denver, USA,
- Tengberg, A., J. Hovdenes, H. J. Andersson, O. Brocandel, R. Diaz, D. Hebert, T. Arnerich, C. Huber, A. Körtzinger, A. Khripounoff, F. Rey, C. Rønning, J. Schimanski, S. Sommer, and A. Stangelmayer, 2006: Evaluation of a lifetime-based optode to measure oxygen in aquatic systems. *Limnology and Oceanography: Methods*, **4**, 7-17, <http://dx.doi.org/10.4319/lom.2006.4.7>
- Thompson, B., C. Gnanaseelan, and P. S. Salvekar, 2006: Seasonal evolution of temperature inversions in the north Indian Ocean. *Current Science*, **90**, 697-704, http://www.currentscience.ac.in/php/show_article.php?volume=090&issue=05&titleid=id_090_05_0697_0704_0&page=0697
- Wang, G., Z.-H. Liu, and J. P. Xu, 2006: Three dimensional Pacific temperature, salinity and circulation reconstructions with Argo data. Collection of Argo Application papers. *China Ocean Press*, 16-26,
- Wunsch, C. and P. Heimbach, 2006: Estimated Decadal Changes in the North Atlantic Meridional Overturning Circulation and Heat Flux 1993-2004. *Journal of Physical Oceanography*, **36**, 2012-2024, <http://dx.doi.org/10.1175/JPO2957.1>
- Xu, D., Z.-H. Liu, and X. H. Xu, 2006: The influence of typhoon on the surface layer salinity in the Western Pacific Warm Pool. Collection of Argo Application papers. *China Ocean Press*, 100-110,
- Ying, Y. H., R. H. Zhang, and T. Niu, 2006: Using an intermediate complex model to simulate the annual variation of SST in the tropical Indian Ocean and its assimilation experiment. Collection of Argo Application papers. *China Ocean Press*, 162-181,
- Yoshida, T. and M. Hoshimoto, 2006: Heat content change in the surface isothermal layer of a warm core ring in the sea east of Japan. *Journal of Oceanography*, **62**, 283-287, <http://dx.doi.org/10.1007/s10872-006-0052-8>
- Zhang, D. and M. J. McPhaden, 2006: Decadal variability of the shallow Pacific meridional overturning circulation: Relation to tropical sea surface temperatures in observations and climate change models. *Ocean Modelling*, **15**, 250-273, <http://dx.doi.org/10.1016/j.ocemod.2005.12.005>
- Zhang, R. H., Y. H. Ying, and Q. Q. Li, 2006: Utilizing Argo Data to Improve the Prediction of ENSO and Short-term Climate Prediction of Summer Rainfall in China. *Journal of Applied Meteorological Science*, **17**,
- Zhong, M., H. Yan, X. Wu, J. Duan, and Y. Zhu, 2006: Non-tidal oceanic contribution to polar wobble estimated from two oceanic assimilation data sets. *Journal of Geodynamics*, **41**, 147-154, <https://doi.org/10.1016/j.jog.2005.10.011>
- Zhou, H., P. F. Guo, and J. P. Xu, 2006: The characteristics of the Kuroshio and eddies east of Taiwan Island. Collection of Argo Application papers. *China Ocean Press*, 47-61,
- Zhou, H., J. P. Xu, and P. F. Guo, 2006: Study of an anticyclonic eddy observed by Argo profiling float in the southeast off Philippine. Collection of Argo Application papers. *China Ocean Press*, 36-46,
- Zhu, J., C. X. Yan, and L. Y. Wang, 2006: Application of Argo data to the Pacific Ocean data assimilation. Collection of Argo Assimilation papers. *China Ocean Press*, 151-161,

Zhu, J., G. Q. Zhou, C. X. Yan, W. W. Fu, and X. B. You, 2006: A three-dimensional variational ocean data assimilation system: Scheme and preliminary results. *Science in China Series D-Earth Sciences*, **49**, 1212-1222,
<http://dx.doi.org/10.1007/s11430-006-1212-9>

2005 (54)

Alderson, S. G. and P. D. Killworth, 2005: A preoperational scheme for calculating sea surface height by Bernoulli inverse of Argo float data in the North Atlantic. *Journal of Atmospheric and Oceanic Technology*, **22**, 1416-1422,
<http://dx.doi.org/10.1175/JTECH1787.1>

Bohme, L. and U. Send, 2005: Objective analyses of hydrographic data for referencing profiling float salinities in highly variable environments. *Deep Sea Research Part II: Topical Studies in Oceanography*, **52**, 651-664,
<http://dx.doi.org/10.1016/j.dsr2.2004.12.014>

Bouruet-Aubertot, P., H. Mercier, F. Gaillard, and P. Lherminier, 2005: Evidence of strong inertia-gravity wave activity during the POMME experiment. *J. Geophys. Res.*, **110**,
<http://dx.doi.org/10.1029/2004JC002747>

Crawford, W., P. Sutherland, and P. van Hardenberg, 2005: Cold water intrusion in the eastern Gulf of Alaska in 2002. *Atmosphere-Ocean*, **43**, 119-128,
<http://dx.doi.org/10.3137/ao.430201>

Davis, R. E., 2005: Intermediate-Depth Circulation of the Indian and South Pacific Oceans Measured by Autonomous Floats. *Journal of Physical Oceanography*, **35**, 683-707,
<http://dx.doi.org/10.1175%2FJPO2702.1>

Durand, F. and G. Reverdin, 2005: A statistical method for correcting salinity observations from autonomous profiling floats: An ARGO perspective. *Journal of Atmospheric and Oceanic Technology*, **22**, 292-301, <http://dx.doi.org/10.1175/JTECH1693.1>

Eugenio, F., J. Marcello, A. Hernandez-Guerra, and E. Rovaris, 2005: Regional optimization of an atmospheric correction algorithm for the retrieval of sea surface temperature from the Canary Islands - Azores - Gibraltar area using NOAA/AVHRR data. *International Journal of Remote Sensing*, **26**, 1799-1814,
<http://dx.doi.org/10.1080/01431160582000298341>

Faure, V. and K. Speer, 2005: Labrador Sea Water circulation in the Northern North Atlantic Ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, **52**, 565-581,
<https://doi.org/10.1016/j.dsr2.2004.12.004>

Freeland, H. J. and P. F. Cummins, 2005: Argo: A new tool for environmental monitoring and assessment of the world's oceans, an example from the NE Pacific. *Progress in Oceanography*, **64**, 31-44, <http://dx.doi.org/10.1016/j.pocean.2004.11.002>

Gaillard, F., H. Mercier, and C. Kermabon, 2005: A synthesis of the POMME physical data set: One year monitoring of the upper layer. *J. Geophys. Res.*, **110**,
<http://dx.doi.org/10.1029/2004JC002764>

Gould, W. J., 2005: From Swallow floats to Argo - the development of neutrally buoyant floats. *Deep Sea Research Part II: Topical Studies in Oceanography*, **52**, 529-543,
<http://dx.doi.org/10.1016/j.dsr2.2004.12.005>

- Hansen, J., L. Nazarenko, R. Ruedy, M. Sato, J. Willis, A. Del Genio, D. Koch, A. Lacis, K. Lo, S. Menon, T. Novakov, J. Perlwitz, G. Russell, G. A. Schmidt, and N. Tausnev, 2005: Earth's Energy Imbalance: Confirmation and Implications. *Science*, **308**, 1431-1435, <http://www.sciencemag.org/cgi/content/abstract/308/5727/1431>
- Joseph, S. and H. J. Freeland, 2005: Salinity variability in the Arabian Sea. *Geophysical Research Letters*, **32**, 4, <http://dx.doi.org/10.1029/2005gl022972>
- King, B. A. and E. L. McDonagh, 2005: Decadal changes in ocean properties revealed by ARGO floats. *Geophysical Research Letters*, **32**, 4, <http://dx.doi.org/10.1029/2005gl023145>
- Kobayashi, T. and S. Minato, 2005: What observation scheme should we use for profiling floats to achieve the argo goal for salinity measurement accuracy? - Suggestions from software calibration. *Journal of Atmospheric and Oceanic Technology*, **22**, 1588-1601, <http://dx.doi.org/10.1175/JTECH1798.1>
- Kobayashi, T. and S. Minato, 2005: Importance of reference dataset improvements for Argo delayed-mode quality control. *Journal of Oceanography*, **61**, 995-1009, <http://dx.doi.org/10.1007/s10872-006-0016-z>
- Kortzinger, A., J. Schimanski, and U. Send, 2005: High Quality Oxygen Measurements from Profiling Floats: A Promising New Technique. *Journal of Atmospheric and Oceanic Technology*, **22**, 302-308, <http://dx.doi.org/10.1175%2FJTECH1701.1>
- Kwon, Y.-O. and S. C. Riser, 2005: General circulation of the western subtropical North Atlantic observed using profiling floats. *J. Geophys. Res.*, **110**, <http://dx.doi.org/10.1029/2005JC002909>
- Lavender, K. L., W. Brechner Owens, and R. E. Davis, 2005: The mid-depth circulation of the subpolar North Atlantic Ocean as measured by subsurface floats. *Deep Sea Research Part I: Oceanographic Research Papers*, **52**, 767-785, <https://doi.org/10.1016/j.dsr.2004.12.007>
- Le Cann, B., M. Assenbaum, J. C. Gascard, and G. Reverdin, 2005: Observed mean and mesoscale upper ocean circulation in the midlatitude northeast Atlantic. *Journal of Geophysical Research: Oceans*, **110**, 28 pp., <http://dx.doi.org/10.1029/2004jc002768>
- Li, M., P. G. Myers, and H. Freeland, 2005: An examination of historical mixed layer depths along Line P in the Gulf of Alaska. *Geophysical Research Letters*, **32**, <http://dx.doi.org/10.1029/2004GL021911>
- Lopez-Jurado, J. L., C. Gonzalez-Pola, and P. Velez-Belchi, 2005: Observation of an abrupt disruption of the long-term warming trend at the Balearic Sea, western Mediterranean Sea, in summer 2005. *Geophysical Research Letters*, **32**, <http://dx.doi.org/10.1029/2005GL024430>
- McMahon, C. R., E. Autret, J. D. R. Houghton, P. Lovell, A. E. Myers, and G. C. Hays, 2005: Animal-borne sensors successfully capture the real-time thermal properties of ocean basins. *Limnology and Oceanography-Methods*, **3**, 392-398, <http://dx.doi.org/10.4319/lom.2005.3.392>
- Molcard, A., A. Griffa, and T. M. Ozgokmen, 2005: Lagrangian Data Assimilation in Multilayer Primitive Equation Ocean Models. *Journal of Atmospheric and Oceanic Technology*, **22**, 70-83, <http://dx.doi.org/10.1175%2FJTECH-1686.1>
- Mooers, C. N. K., I. Bang, and F. J. Sandoval, 2005: Comparisons between observations and

- numerical simulations of Japan (East) Sea flow and mass fields in 1999 through 2001. *Deep Sea Research Part II: Topical Studies in Oceanography*, **52**, 1639-1661, <https://doi.org/10.1016/j.dsr2.2004.10.003>
- Nunez-Riboni, I., O. Boebel, M. Ollitrault, Y. You, P. L. Richardson, and R. Davis, 2005: Lagrangian circulation of Antarctic Intermediate Water in the subtropical South Atlantic. *Deep Sea Research Part II: Topical Studies in Oceanography*, **52**, 545-564, <https://doi.org/10.1016/j.dsr2.2004.12.006>
- Ohshima, K. I., S. C. Riser, and M. Wakatsuchi, 2005: Mixed layer evolution in the Sea of Okhotsk observed with profiling floats and its relation to sea ice formation. *Geophysical Research Letters*, **32**, 4, <http://dx.doi.org/10.1029/2004gl021823>
- Oka, E., 2005: Long-term sensor drift found in recovered Argo profiling floats. *Journal of Oceanography*, **61**, 775-781, <http://dx.doi.org/10.1007/s10872-005-0083-6>
- Oke, P. R., A. Schiller, D. A. Griffin, and G. B. Brassington, 2005: Ensemble data assimilation for an eddy-resolving ocean model of the Australian region. *Quarterly Journal of the Royal Meteorological Society*, **131**, 3301-3311, <https://doi.org/10.1256/qj.05.95>
- Pan, A. J. and Q. Y. Liu, 2005: Mesoscale eddy effects on the wintertime vertical mixing in the formation region of the North Pacific Subtropical Mode Water. *Chinese Science Bulletin*, **50**, 1949-1956, <http://dx.doi.org/10.1360/982004-757>
- Park, J. J., K. Kim, and B. A. King, 2005: Global statistics of inertial motions. *Geophysical Research Letters*, **32**, 5, <http://dx.doi.org/10.1029/2005gl023258>
- Park, J. J., K. Kim, B. A. King, and S. C. Riser, 2005: An advanced method to estimate deep currents from profiling floats. *Journal of Atmospheric and Oceanic Technology*, **22**, 1294-1304, <http://dx.doi.org/10.1175/JTECH1748.1>
- Park, Y.-G., K.-H. Oh, K.-I. Chang, and M. S. Suk, 2005: Water masses and flow fields of the Southern Ocean measured by autonomous profiling floats (Argo floats). *Ocean and Polar Research*, **27**, 183, <http://dx.doi.org/10.4217/OPR.2005.27.2.183>
- Phillips, H. E., S. E. Wijffels, and M. Feng, 2005: Interannual variability in the freshwater content of the Indonesian-Australian Basin. *Geophysical Research Letters*, **32**, 5, <http://dx.doi.org/10.1029/2004gl021755>
- Qiu, B. and S. M. Chen, 2005: Eddy-induced heat transport in the subtropical North Pacific from Argo, TMI, and altimetry measurements. *Journal of Physical Oceanography*, **35**, 458-473, <http://dx.doi.org/10.1175/JPO2696.1>
- Qu, T. D. and G. Meyers, 2005: Seasonal variation of barrier layer in the southeastern tropical Indian Ocean. *Journal of Geophysical Research: Oceans*, **110**, 13, <http://dx.doi.org/10.1029/2004jc002816>
- Ramesh, K. V. and R. Krishnan, 2005: Coupling of mixed layer processes and thermocline variations in the Arabian Sea. *Journal of Geophysical Research: Oceans*, **110**, 17, <http://dx.doi.org/10.1029/2004jc002515>
- Sanders, R., L. Brown, S. Henson, and M. Lucas, 2005: New production in the Irminger Basin during 2002. *Journal of Marine Systems*, **55**, 291-310, <http://dx.doi.org/10.1016/j.jmarsys.2004.09.002>
- Sato, N., 2005: Influences of intraseasonal disturbances on the oceanic mixed layer in the western North Pacific ITCZ region. *Geophysical Research Letters*, **32**, 4, <http://dx.doi.org/10.1029/2005gl023577>

- Schmid, C., 2005: Impact of Combining Temperature Profiles from Different Instruments on an Analysis of Mixed Layer Properties. *Journal of Atmospheric and Oceanic Technology*, **22**, 1571-1587, <http://dx.doi.org/10.1175%2FJTECH1785.1>
- Testor, P., U. Send, J. C. Gascard, C. Millot, I. Taupier-Letage, and K. Beranger, 2005: The mean circulation of the southwestern Mediterranean Sea: Algerian gyres. *Journal of Geophysical Research: Oceans*, **110**, 14 pp., <http://dx.doi.org/10.1029/2004jc002861>
- Ueno, H., E. Oka, T. Suga, and H. Onishi, 2005: Seasonal and interannual variability of temperature inversions in the subarctic North Pacific. *Geophysical Research Letters*, **32**, <http://dx.doi.org/10.1029/2005GL023948>
- Ueno, H. and I. Yasuda, 2005: Temperature inversions in the subarctic North Pacific. *Journal of Physical Oceanography*, **35**, 2444-2456, <http://dx.doi.org/10.1175/JPO2829.1>
- Vargas-Yanez, M., G. Parrilla, A. Lavin, P. Velez-Belchi, C. Gonzalez-Pola, and A. Hernandez-Guerra, 2005: Eddy-induced variability in a transatlantic section: Argo observing system-gyroscope 0302 cruise comparison. *Journal of Atmospheric and Oceanic Technology*, **22**, 1069-1079, <http://dx.doi.org/10.1175/JTECH1761.1>
- Vidard, A., D. L. T. Anderson, and M. Balmaseda, 2005: Impact of ocean observation systems on ocean analysis and seasonal forecasts. *ECMWF, Technical Memorandum*, **460**, 32,
- Vinayachandran, P. N., T. Kagimoto, Y. Masumoto, P. Chauhan, S. R. Nayak, and T. Yamagata, 2005: Bifurcation of the East India Coastal Current east of Sri Lanka. *Geophysical Research Letters*, **32**, 4, <http://dx.doi.org/10.1029/2005gl022864>
- Wirts, A. E. and G. C. Johnson, 2005: Recent interannual upper ocean variability in the deep southeastern Bering Sea. *Journal of Marine Research*, **63**, 381-405, <https://doi.org/10.1357/0022240053693725>
- Wong, A. P. S., 2005: Subantarctic Mode Water and Antarctic Intermediate Water in the South Indian Ocean based on profiling float data 2000-2004. *Journal of Marine Research*, **63**, 789-812, <https://doi.org/10.1357/0022240054663196>
- Xie, J. P., J. Zhu, L. Xu, and P. W. Guo, 2005: Evaluation of mid-depth currents of NCEP reanalysis data in the tropical Pacific using ARGO float position information. *Advances in Atmospheric Sciences*, **22**, 677-684, <http://dx.doi.org/10.1007/BF02918711>
- Xu, D., Z.-H. Liu, G. Liao, and J. P. Xu, 2005: The influence of typhoon on the sea surface salinity in the warm pool of the western Pacific. *Acta Meteorological Sinica*, 1-7, http://caod.oriprobe.com/articles/9435411/The_influence_of_typhoon_on_the_sea_surface_salinity_in_the_warm_pool.htm
- Yimin, L., W. Li, and P. Zhang, 2005: NCC 4-Dimensional Ocean Data Assimilation System and the Studies on its Results in the Middle Pacific. *Acta Oceanologica Sinica*, **27**, 27-35,
- Yimin, L., R. H. Zhang, Y. H. Yin, and T. Niu, 2005: The Application of Argo Data to the Global Ocean Data Assimilation Operational System of NCC. *Acta Meteorological Sinica*, 355-365, http://caod.oriprobe.com/articles/8849058/The_Application_of_ARGO_Data_to_the_Global_Ocean_Data_Assimilation_Ope.htm
- Youn, Y. H., H. Lee, Y. S. Chang, and P. Thadathil, 2005: Validation of Salinity Data from Argo floats: Comparison between the older Argo floats and that of later deployments.

Journal of Korean Earth Science Society, **26**, 129-136,
Zhang, S., M. J. Harrison, A. T. Wittenberg, A. Rosati, J. L. Anderson, and V. Balaji, 2005:
Initialization of an ENSO Forecast System Using a Parallelized Ensemble Filter.
Monthly Weather Review, **133**, 3176-3201, <http://dx.doi.org/10.1175%2FMWR3024.1>

2004 (26)

- Centurioni, L. R. and W. J. Gould, 2004: Winter conditions in the Irminger Sea observed with profiling floats. *Journal of Marine Research*, **62**, 313-336,
<https://doi.org/10.1357/0022240041446209>
- de Boyer Montegut, C., G. Madec, A. S. Fischer, A. Lazar, and D. Iudicone, 2004: Mixed layer depth over the global ocean: An examination of profile data and a profile-based climatology. *J. Geophys. Res.*, **109**, <http://dx.doi.org/10.1029/2004JC002378>
- Endoh, T., H. Mitsudera, S.-P. Xie, and B. Qiu, 2004: Thermohaline Structure in the Subarctic North Pacific Simulated in a General Circulation Model. *Journal of Physical Oceanography*, **34**, 360-371,
<http://dx.doi.org/10.1175%2F1520-0485%282004%29034%3C0360%3ATSITSN%3E2.0.CO%3B2>
- Fischer, J., F. A. Schott, and M. Dengler, 2004: Boundary Circulation at the Exit of the Labrador Sea. *Journal of Physical Oceanography*, **34**, 1548-1570,
<http://dx.doi.org/10.1175%2F1520-0485%282004%29034%3C1548%3ABCATEO%3E2.0.CO%3B2>
- Gould, W. J., 2004: Argo Profiling Floats Bring New Era of In Situ Ocean Observations. *EOS*, **85**, <http://dx.doi.org/10.1029/2004EO190002>
- Guinehut, S., P. Y. Le Traon, G. Larnicol, and S. Philipps, 2004: Combining Argo and remote-sensing data to estimate the ocean three-dimensional temperature fields - a first approach based on simulated observations. *Journal of Marine Systems*, **46**, 85-98, <http://dx.doi.org/10.1016/j.jmarsys.2003.11.022>
- Homan, L., T. H. Kim, J. H. Kim, J. W. Seo, and Y. H. Youn, 2004: Mean flow and variability in the upper portion of the East Sea proper water in the southwestern East Sea with APEX floats. *Journal of Environmental Sciences*, **13**, 135-141,
- Hu, C., E. T. Montgomery, R. W. Schmitt, and F. E. Muller-Karger, 2004: The dispersal of the Amazon and Orinoco River water in the tropical Atlantic and Caribbean Sea: Observation from space and S-PALACE floats. *Deep Sea Research Part II: Topical Studies in Oceanography*, **51**, 1151-1171,
<http://dx.doi.org/10.1016/j.dsr2.2004.04.001>
- Iwasaka, N., T. Okumura, E. Oka, and K. Takeuchi, 2004: A simulation of Argo float distribution in the South Pacific. *Report of Japan Marine Science and Technology Center*, **49**, 43-50,
- Johnson, G. C., P. J. Stabeno, and S. C. Riser, 2004: The Bering Slope Current system revisited. *Journal of Physical Oceanography*, **34**, 384-398,
[http://dx.doi.org/10.1175/1520-0485\(2004\)034%3C0384:TBSCSR%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2004)034%3C0384:TBSCSR%3E2.0.CO;2)
- McCulloch, M. E., J. O. S. Alves, and M. J. Bell, 2004: Modelling shallow mixed layers in the northeast Atlantic. *Journal of Marine Systems*, **52**, 107-119,

- <http://dx.doi.org/10.1016/j.jmarsys.2004.03.001>
- Molinari, R. L., 2004: Annual and decadal variability in the western subtropical North Atlantic: signal characteristics and sampling methodologies. *Progress in Oceanography*, **62**, 33-66, <http://dx.doi.org/10.1016/j.pocean.2004.07.002>
- Ohno, Y., T. Kobayashi, N. Iwasaka, and T. Suga, 2004: The mixed layer depth in the North Pacific as detected by the Argo floats. *Geophysical Research Letters*, **31**, 4, <http://dx.doi.org/10.1029/2004gl019576>
- Ohshima, K. I., D. Simizu, M. Itoh, G. Mizuta, Y. Fukamachi, S. C. Riser, and M. Wakatsuchi, 2004: Sverdrup Balance and the Cyclonic Gyre in the Sea of Okhotsk. *Journal of Physical Oceanography*, **34**, 513-525, <http://dx.doi.org/10.1175%2F1520-0485%282004%29034%3C0513%3ASBATCG%3E2.0.CO%3B2>
- Oka, E. and K. Ando, 2004: Stability of temperature and conductivity sensors of argo profiling floats. *Journal of Oceanography*, **60**, 253-258, <http://dx.doi.org/10.1023/B:JOCE.0000038331.10108.79>
- Park, J. J., K. Kim, and W. R. Crawford, 2004: Inertial currents estimated from surface trajectories of ARGO floats. *Geophysical Research Letters*, **31**, 4, <http://dx.doi.org/10.1029/2004gl020191>
- Park, Y.-G., K.-H. Oh, K.-I. Chang, and M.-S. Suk, 2004: Intermediate level circulation of the southwestern part of the East/Japan Sea estimated from autonomous isobaric profiling floats. *Geophysical Research Letters*, **31**, <http://dx.doi.org/10.1029/2004GL020424>
- Ravichandran, M., P. N. Vinayachandran, S. Joseph, and K. Radhakrishnan, 2004: Results from the first Argo float deployed by India. *Current Science*, **86**, 651-659, http://www.currentscience.ac.in/php/show_article.php?volume=086&issue=05&titleid=id_086_05_0651_0659_0&page=0651
- Roemmich, D., S. Riser, R. Davis, and Y. Desaubies, 2004: Autonomous profiling floats: Workhorse for broad-scale ocean observations. *Marine Technology Society Journal*, **38**, 21-29, <https://doi.org/10.4031/002533204787522802>
- Sato, K., T. Suga, and K. Hanawa, 2004: Barrier layer in the North Pacific subtropical gyre. *Geophysical Research Letters*, **31**, 4, <http://dx.doi.org/10.1029/2003gl018590>
- Schiller, A., S. E. Wijffels, and G. A. Meyers, 2004: Design requirements for an Argo float array in the Indian Ocean inferred from observing system simulation experiments. *Journal of Atmospheric and Oceanic Technology*, **21**, 1598-1620, [http://dx.doi.org/10.1175/1520-0426\(2004\)021%3C1598:DRFAAF%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0426(2004)021%3C1598:DRFAAF%3E2.0.CO;2)
- Shimizu, Y., T. Iwao, I. Yasuda, S. I. Ito, T. Watanabe, K. Uehara, N. Shikama, and T. Nakano, 2004: Formation process of North Pacific intermediate water revealed by profiling floats set to drift on 26.7 sigma(theta) isopycnal surface. *Journal of Oceanography*, **60**, 453-462, <http://dx.doi.org/10.1023/B:JOCE.0000038061.55914.eb>
- Thadathil, P., P. M. Muraleedharan, V. V. Gopalakrishna, G. V. Reddy, L. Ratnakaran, C. Ravichandran, and V. S. N. Murthy, 2004: Validation of ARGO data in the Indian Ocean. *Gayana*, **68**, 456-458, <http://dx.doi.org/10.4067/S0717-65382004000300025>
- Vargas-Yanez, M., G. Parrilla, A. Lavin, P. Velez-Belchi, and C. Gonzalez-Pola, 2004: Temperature and salinity increase in the eastern North Atlantic along the 24.5

- degree N in the last ten years. *Geophysical Research Letters*, **31**,
<http://dx.doi.org/10.1029/2003GL019308>
- Vinayachandran, P. N., 2004: Summer cooling of the Arabian Sea during contrasting monsoons. *Geophysical Research Letters*, **31**, 4,
<http://dx.doi.org/10.1029/2004gl019961>
- Willis, J. K., D. Roemmich, and B. Cornuelle, 2004: Interannual variability in upper ocean heat content, temperature, and thermosteric expansion on global scales. *Journal of Geophysical Research: Oceans*, **109**, 13, <http://dx.doi.org/10.1029/2003jc002260>
- 2003 (21)
- Bacon, S., W. J. Gould, and Y. Jia, 2003: Open-ocean convection in the Irminger Sea. *Geophysical Research Letters*, **30**, <http://dx.doi.org/10.1029/2002GL016271>
- Chapman, P., S. F. D. Marco, R. E. Davis, and A. C. Coward, 2003: Flow at intermediate depths around Madagascar based on ALACE float trajectories. *Deep Sea Research Part II: Topical Studies in Oceanography*, **50**, 1957-1986,
[http://dx.doi.org/10.1016/S0967-0645\(03\)00040-7](http://dx.doi.org/10.1016/S0967-0645(03)00040-7)
- Gille, S. T., 2003: Float observations of the Southern Ocean. Part I: Estimating mean fields, bottom velocities, and topographic steering. *Journal of Physical Oceanography*, **33**, 1167-1181,
[http://dx.doi.org/10.1175/1520-0485\(2003\)033%3C1167:FOOTSO%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2003)033%3C1167:FOOTSO%3E2.0.CO;2)
- Gille, S. T., 2003: Float observations of the Southern Ocean. Part II: Eddy fluxes. *Journal of Physical Oceanography*, **33**, 1182-1196,
[http://dx.doi.org/10.1175/1520-0485\(2003\)033%3C1182:FOOTSO%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2003)033%3C1182:FOOTSO%3E2.0.CO;2)
- Gille, S. T. and L. Romero, 2003: Statistical behavior of ALACE floats at the surface of the Southern Ocean. *Journal of Atmospheric and Oceanic Technology*, **20**, 1633-1640,
[http://dx.doi.org/10.1175/1520-0426\(2003\)020%3C1633:SBOAFA%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0426(2003)020%3C1633:SBOAFA%3E2.0.CO;2)
- Henson, S. A., R. Sanders, J. T. Allen, I. S. Robinson, and L. Brown, 2003: Seasonal constraints on the estimation of new production from space using temperature-nitrate relationships. *Geophysical Research Letters*, **30**, 4,
<http://dx.doi.org/10.1029/2003gl017982>
- Iwao, T., M. Endoh, N. Shikama, and T. Nakano, 2003: Intermediate Circulation in the Northwestern North Pacific Derived from Subsurface Floats. *Journal of Oceanography*, **59**, 893-904, <http://dx.doi.org/10.1023/B:JOCE.0000009579.86413.eb>
- Iwasaka, N., T. Suga, K. Takeuchi, K. Mizuno, Y. Takatsuki, K. Ando, T. Kobayashi, E. Oka, Y. Ichikawa, M. Miyazaki, H. Matsuura, K. Izawa, C. S. Yang, and N. Shikama, 2003: Pre-Japan-ARGO: Experimental observation of upper and middle layers south of the Kuroshio Extension region using profiling floats. *Journal of Oceanography*, **59**, 119-127, <http://dx.doi.org/10.1023/A:1022880809737>
- Lilly, J. M., P. B. Rhines, F. Schott, K. Lavender, J. Lazier, U. Send, and E. D'Asaro, 2003: Observations of the Labrador Sea eddy field. *Progress in Oceanography*, **59**, 75-176,
<http://dx.doi.org/10.1016/j.pocean.2003.08.013>
- Oka, E. and T. Suga, 2003: Formation region of North Pacific subtropical mode water in the late winter of 2003. *Geophysical Research Letters*, **30**, 4,

- <http://dx.doi.org/10.1029/2003gl018581>
- Roemmich, D. and J. Gould, 2003: The future of climate observations in the global ocean. *Sea Technology*, **44**, 10-15,
- Schmid, C., Z. D. Garraffo, E. Johns, and S. L. Garzoli, 2003: Pathways and variability at intermediate depths in the tropical Atlantic. *Interhemispheric Water Exchange in the Atlantic Ocean*, G. J. Goni and P. Malanotte-Rizzoli, Eds., Elsevier Oceanography Series, 233-268,
<http://store.elsevier.com/Interhemispheric-Water-Exchange-in-the-Atlantic-Ocean/isbn-9780080534893/>.
- Straneo, F., R. S. Pickart, and K. Lavender, 2003: Spreading of Labrador sea water: an advective-diffusive study based on Lagrangian data. *Deep Sea Research Part I: Oceanographic Research Papers*, **50**, 701-719,
[http://dx.doi.org/10.1016/S0967-0637\(03\)00057-8](http://dx.doi.org/10.1016/S0967-0637(03)00057-8)
- Thomson, R. E. and H. J. Freeland, 2003: Topographic steering of a mid-depth drifter in an eddy-like circulation region south and east of the Hawaiian Ridge. *Journal of Geophysical Research: Oceans*, **108**, 7, <http://dx.doi.org/10.1029/2002jc001715>
- Treguier, A. M., N. G. Hogg, M. Maltrud, K. Speer, and V. Thierry, 2003: The Origin of Deep Zonal Flows in the Brazil Basin. *Journal of Physical Oceanography*, **33**, 580-599,
<http://dx.doi.org/10.1175%2F1520-0485%282003%29033%3C0580%3ATOODZF%3E2.0.CO%3B2>
- Turton, J., 2003: Argo: An array of free-drifting profiling floats - Progress towards establishing a global array of 3,000 floats for observing the world's oceans. *Sea Technology*, **44**, 33-36,
- Uehara, H., T. Suga, K. Hanawa, and N. Shikama, 2003: A role of eddies in formation and transport of North Pacific Subtropical mode water. *Geophysical Research Letters*, **30**, 4, <http://dx.doi.org/10.1029/2003gl017542>
- Willis, J. K., D. Roemmich, and B. Cornuelle, 2003: Combining altimetric height with broadscale profile data to estimate steric height, heat storage, subsurface temperature, and sea-surface temperature variability. *J. Geophys. Res.*, **108**, <http://dx.doi.org/10.1029/2002JC001755>
- Wong, A. P. S. and G. C. Johnson, 2003: South Pacific Eastern Subtropical Mode Water. *Journal of Physical Oceanography*, **33**, 1493-1509,
[http://dx.doi.org/10.1175/1520-0485\(2003\)033%3C1493:SPESMW%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2003)033%3C1493:SPESMW%3E2.0.CO;2)
- Wong, A. P. S., G. C. Johnson, and W. B. Owens, 2003: Delayed-mode calibration of autonomous CTD profiling float salinity data by theta-S climatology. *Journal of Atmospheric and Oceanic Technology*, **20**, 308-318,
[http://dx.doi.org/10.1175/1520-0426\(2003\)020%3C0308:DMCOAC%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0426(2003)020%3C0308:DMCOAC%3E2.0.CO;2)
- Yanagimoto, D. and K. Taira, 2003: Current Measurements of the Japan Sea Proper Water and the Intermediate Water by ALACE Floats. *Journal of Oceanography*, **59**, 359-368,
<http://dx.doi.org/10.1023/A:1025572112019>

2002 (20)

Bishop, J. K. B., R. E. Davis, and J. T. Sherman, 2002: Robotic Observations of Dust Storm

- Enhancement of Carbon Biomass in the North Pacific. *Science*, **298**, 817-821, <http://dx.doi.org/10.1126/science.1074961>
- Bower, A. S., B. Le Cann, T. Rossby, W. Zenk, J. Gould, K. Speer, P. L. Richardson, M. D. Prater, and H. M. Zhang, 2002: Directly measured mid-depth circulation in the northeastern North Atlantic Ocean. *Nature*, **419**, 603-607, <http://dx.doi.org/10.1038/nature01078>
- Chapman, P. and J. Gould, 2002: The role of technology developments in WOCE. *International WOCE Newsletter* 21-23.
- Cuny, J., P. B. Rhines, P. P. Niiler, and S. Bacon, 2002: Labrador Sea Boundary Currents and the Fate of the Irminger Sea Water. *Journal of Physical Oceanography*, **32**, 627-647, <http://dx.doi.org/10.1175%2F1520-0485%282002%29032%3C0627%3ALSBCAT%3E2.0.CO%3B2>
- Dalton, R., 2002: Oceanography: Voyage of the argonauts. *Nature*, **415**, 954-955, <http://dx.doi.org/10.1038/415954a>
- Feng, M. and S. Wijffels, 2002: Intraseasonal variability in the south equatorial current of the east Indian Ocean. *Journal of Physical Oceanography*, **32**, 265-277, [http://dx.doi.org/10.1175/1520-0485\(2002\)032%3C0265:IVITSE%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2002)032%3C0265:IVITSE%3E2.0.CO;2)
- Fischer, J. and F. A. Schott, 2002: Labrador Sea water tracked by profiling floats - From the boundary current into the open North Atlantic. *Journal of Physical Oceanography*, **32**, 573-584, [http://dx.doi.org/10.1175/1520-0485\(2002\)032%3C0573:LSWTBP%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2002)032%3C0573:LSWTBP%3E2.0.CO;2)
- Gascard, J. C., A. J. Watson, M.-J. Messias, K. A. Olsson, T. Johannessen, and K. Simonsen, 2002: Long-lived vortices as a mode of deep ventilation in the Greenland Sea. *Nature*, **416**, 525-527, <http://dx.doi.org/10.1038/416525a>
- Gille, S. T., 2002: Warming of the Southern Ocean Since the 1950s. *Science*, **295**, 1275-1277, <http://dx.doi.org/10.1126/science.1065863>
- Guinehut, S., G. Larnicol, and P. Y. Le Traon, 2002: Design of an array of profiling floats in the North Atlantic from model simulations. *Journal of Marine Systems*, **35**, 1-9, [http://dx.doi.org/10.1016/S0924-7963\(02\)00042-8](http://dx.doi.org/10.1016/S0924-7963(02)00042-8)
- Kobayashi, T., H. Nakajima, T. Suga, K. Mizuno, N. Shikama, and K. Takeuchi, 2002: High quality climatological dataset for the Indian Ocean (Indian HydroBase). *Kaiyo Kagaku Gijutsu Senta Shiken Kenkyu Hokoku*, **46**, 11-27,
- Lavender, K. L., R. E. Davis, and W. B. Owens, 2002: Observations of open-ocean deep convection in the Labrador Sea from subsurface floats. *Journal of Physical Oceanography*, **32**, 511-526, [http://dx.doi.org/10.1175/1520-0485\(2002\)032%3C0511:OOOODC%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2002)032%3C0511:OOOODC%3E2.0.CO;2)
- Liu, Z.-H., J. P. Xu, B. K. Zhu, and M. Guo, 2002: The test and deployment of Argo profiling float. *Ocean Technology*, **21**, 35-40,
- Lumpkin, R., A. M. Treguier, and K. Speer, 2002: Lagrangian eddy scales in the Northern Atlantic Ocean. *Journal of Physical Oceanography*, **32**, 2425-2440, <http://dx.doi.org/10.1175/1520-0485%282002%29032%3C2425%3ALESITN%3E2.0.CO%3B2>
- Marchand, P. and J. Servain, 2002: NOR-50: Fast research vessel for operational oceanography - Implementing PIRATA & Argo programs in the Tropical & South Atlantic in a practical, economic way. *Sea Technology*, **43**, 49-54,

- Oka, E., K. Izawa, J. Inoue, K. Ando, N. Shikama, K. Mizuno, K. Suehiro, and K. Takeuchi, 2002: Is retrieve of Argo floats possible? *Kaiyo Kagaku Gijutsu Senta Shiken Kenkyu Hokoku*, **46**,
- Pingree, R., 2002: Ocean structure and climate (Eastern North Atlantic): in situ measurement and remote sensing (altimeter). *Journal of the Marine Biological Association of the UK*, **82**, 681-707, <http://dx.doi.org/10.1017/S0025315402006082>
- Rhein, M., J. Fischer, W. M. Smethie, D. Smythe-Wright, R. F. Weiss, C. Mertens, D. H. Min, U. Fleischmann, and A. Putzka, 2002: Labrador Sea Water: Pathways, CFC inventory, and formation rates. *Journal of Physical Oceanography*, **32**, 648-665, [http://dx.doi.org/10.1175/1520-0485\(2002\)032%3C0648:LSWPCI%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2002)032%3C0648:LSWPCI%3E2.0.CO;2)
- Riser, S. C., 2002: Studying the global ocean circulation with profiling floats. *Argos Forum*, **59**, 4-7,
- Yang, C. S., A. Ishida, and N. Iwasaka, 2002: On Prediction of the Argo Floats Drifted Ashore after Termination. *Kaiyo Kagaku Gijutsu Senta Shiken Kenkyu Hokoku*, **46**, 107-122,
- 2001 (16)
- Bacon, S., L. R. Centurioni, and W. J. Gould, 2001: The evaluation of salinity measurements from PALACE floats. *Journal of Atmospheric and Oceanic Technology*, **18**, 1258-1266, [http://dx.doi.org/10.1175/1520-0426\(2001\)018%3C1258:TEOSMF%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0426(2001)018%3C1258:TEOSMF%3E2.0.CO;2)
- Caniaux, G., H. Giordani, L. Prieur, and F. Hernandez, 2001: Observations of an intense anticyclonic warm eddy in the Newfoundland Basin. *Geophysical Research Letters*, **28**, 2649-2652, <http://dx.doi.org/10.1029/2001GL012838>
- Davis, R. E., J. T. Sherman, and J. Dufour, 2001: Profiling ALACEs and other advances in autonomous subsurface floats. *Journal of Atmospheric and Oceanic Technology*, **18**, 982-993, [http://dx.doi.org/10.1175/1520-0426\(2001\)018%3C0982:PAAOAI%3E2.0.CO;2](http://dx.doi.org/10.1175/1520-0426(2001)018%3C0982:PAAOAI%3E2.0.CO;2)
- Gille, S. T., 2001: Southern Ocean ALACE float temperatures are warmer than historic temperatures. *CLIVAR Exchanges*, 22.
- Griffiths, G., R. Davis, C. C. Eriksen, D. Frye, P. Marchand, and T. Dickey, 2001: Towards new platform technology for sustained application. *Observing the Oceans in the 21st Century*, C. Koblinksy and N. R. Smith, Eds., GODAE Project Office, 324-338,
- Ichikawa, Y., K. Takahashi, K. Mizuno, N. Shikama, and K. Takeuchi, 2001: Estimation of drifting velocity and error at parking depth for Argo float. *Kaiyo Kagaku Gijutsu Senta Shiken Kenkyu Hokoku*, **44**, 81-89,
- Inoue, A., M. Miyazaki, K. Izawa, K. Ando, Y. Takatsuki, and K. Mizuno, 2001: Stability of Water Temperature in the conductivity and temperature calibration system and result of calibration experiment. *Kaiyo Kagaku Gijutsu Senta Shiken Kenkyu Hokoku*, **44**, 1-8,
- Izawa, K., K. Mizuno, M. Miyazaki, A. Inoue, K. Ando, Y. Takatsuki, T. Kobayashi, and K. Takeuchi, 2001: On the weight adjustment of profiling float. *Kaiyo Kagaku Gijutsu Senta Shiken Kenkyu Hokoku*, **44**, 181-196,
- Kobayashi, T., Y. Ichikawa, Y. Takatsuki, T. Suga, N. Iwasaka, K. Ando, K. Mizuno, N. Shikama, and K. Takeuchi, 2001: Correcting method of Argo data based on HydroBase 1 -

- Introduction of Potential Conductivity. *Kaiyo Kagaku Gijutsu Senta Shiken Kenkyu Hokoku*, **44**, 115-124,
- Kobayashi, T., Y. Ichikawa, Y. Takatsuki, T. Suga, N. Iwasaka, K. Ando, K. Mizuno, N. Shikama, and K. Takeuchi, 2001: Quality control of Argo data based on high quality climatological data set (HydroBase) *Kaiyo Kagaku Gijutsu Senta Shiken Kenkyu Hokoku*, **44**, 101-114,
- Oka, E., 2001: A simulation for deployment of Argo floats. *Kaiyo Kagaku Gijutsu Senta Shiken Kenkyu Hokoku*, **44**, 9-16,
- Pingree, R. and B. Sinha, 2001: Westward moving waves or eddies (Storms) on the Subtropical/Azores Front near 32.5N? Interpretation of the Eulerian currents and temperature records at moorings 155 (35.5W) and 156 (34.4W). *Journal of Marine Systems*, **29**, 239-276, [http://dx.doi.org/10.1016/S0924-7963\(01\)00019-7](http://dx.doi.org/10.1016/S0924-7963(01)00019-7)
- Richardson, P. L. and H. S. John, 2001: Drifters And Floats. *Encyclopedia of Ocean Sciences*, Academic Press, 767-774, <https://doi.org/10.1006/rwos.2001.0305>.
- Schmid, C., R. L. Molinari, and S. L. Garzoli, 2001: New observations of the intermediate depth circulation in the tropical Atlantic. *Journal of Marine Research*, **59**, 281-312, <http://dx.doi.org/10.1357/002224001762882664>
- Takatsuki, Y., Y. Ichikawa, T. Kobayashi, K. Mizuno, and K. Takeuchi, 2001: Construction of the automated data processing and delayed-mode quality control system for profiling floats. *Kaiyo Kagaku Gijutsu Senta Shiken Kenkyu Hokoku*, **44**, 17-27,
- Wijffels, S. E., J. M. Toole, and R. Davis, 2001: Revisiting the South Pacific subtropical circulation: A synthesis of World Ocean Circulation Experiment observations along 32°S. *J. Geophys. Res.*, **106**, <http://dx.doi.org/10.1029/1999JC000118>
- 2000 (8)
- Feder, T., 2000: Argo begins systematic global probing of the upper oceans. *Physics Today*, **53**, 50-51,
- Freeland, H. J., 2000: Project Argo. *PICES Press*, **8**, 9,27, http://meetings.pices.int/publications/pices-press/volume8/issue2/Newsletter_May_00.pdf
- Guinehut, S., G. Larnicol, and P. Y. Le Traon, 2000: Design of an array of profiling floats in the North Atlantic from model simulations - preliminary results. *CLIVAR Exchanges*, 6-8.
- Lavender, K. L., R. E. Davis, and W. B. Owens, 2000: Mid-depth recirculation observed in the interior Labrador and Irminger seas by direct velocity measurements. *Nature*, **407**, 66-69, <http://dx.doi.org/10.1038/35024048>
- Molinari, R. L. and J. F. Festa, 2000: Effect of subjective choices on the objective analysis of sea surface temperature data in the tropical Atlantic and Pacific oceans. *Oceanologica Acta*, **23**, 3-14, [http://dx.doi.org/10.1016/S0399-1784\(00\)00108-0](http://dx.doi.org/10.1016/S0399-1784(00)00108-0)
- Roemmich, D. and W. B. Owens, 2000: The Argo Project: global ocean observations for the understanding and prediction of climate variability. *Oceanography*, **13**, 45-50, <http://dx.doi.org/10.5670/oceanog.2000.33>
- Turton, J. and H. Cattle, 2000: The UK contribution to Argo. *Marine Observer*, **70**, 173-175,
- Wilson, S., 2000: Launching the Argo Armada. *Oceanus*, **42**, 17-19,

<http://www.whoi.edu/oceanus/feature/launching-the-argo-armada>

1999 (4)

Bacon, S., L. R. Centurioni, and J. Gould, 1999: Profiling ALACE float salinity measurements. *International WOCE Newsletter*, 28-29.

Molinari, R. L., S. L. Garzoli, and R. W. Schmitt, 1999: Equatorial currents at 1000 m in the Atlantic Ocean. *Geophysical Research Letters*, **26**, 361-363, <http://dx.doi.org/10.1029/1998GL900284>

Speer, K. G., J. Gould, and J. LaCasce, 1999: Year-long float trajectories in the Labrador Sea Water of the eastern North Atlantic Ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, **46**, 165-179, [http://dx.doi.org/10.1016/S0967-0645\(98\)00103-9](http://dx.doi.org/10.1016/S0967-0645(98)00103-9)

Thomson, R. E. and H. J. Freeland, 1999: Lagrangian Measurement of Mid-Depth Currents in the Eastern Tropical Pacific. *Geophysical Research Letters*, **26**, <http://dx.doi.org/10.1029/1999GL002322>

1998 (4)

Argo_Steering_Team, 1998: On the design and Implementation of Argo - an initial plan for the global array of profiling floats. *International CLIVAR Project Office Report*, **21**, 32,

Bacon, S., L. R. Centurioni, and J. Gould, 1998: Evaluation of profiling ALACE float performance. *Southampton Oceanography Centre Internal Document*, 72.

Davis, R. E., 1998: Preliminary results from directly measuring middepth circulation in the tropical and South Pacific. *Journal of Geophysical Research-Oceans*, **103**, 24619-24639, <http://dx.doi.org/10.1029/98JC01913>

Davis, R. E., 1998: Autonomous floats in WOCE. *International WOCE Newsletter*, 3-6.

1997 (1)

Freeland, H. J., 1997: Calibration of the conductivity cells on P-ALACE floats. *US WOCE Implementation Report*, **9**, 37-38,

1996 (2)

Davis, R. E., 1996: ALACEs return data on mean circulation in the western South Pacific. *US WOCE Implementation Report*, **8**, 7-10,

Davis, R. E., P. D. Killworth, and J. R. Blundell, 1996: Comparison of Autonomous Lagrangian Circulation Explorer and fine resolution Antarctic model results in the South Atlantic. *J. Geophys. Res.*, **101**, <http://dx.doi.org/10.1029/95JC02538>

1995 (1)

Davis, R. E., 1995: ALACE tracks subsurface ocean currents with Argos. *Argos Newsletter*, **49**, 5,7,

1992 (1)

Davis, R. E., D. C. Webb, L. A. Regier, and J. Dufour, 1992: The Autonomous Lagrangian Circulation Explorer (ALACE). *Journal of Atmospheric and Oceanic Technology*, **9**, 264-285,
<http://dx.doi.org/10.1175%2F1520-0426%281992%29009%3C0264%3ATALCE%3E2.0.CO%3B2>

1991 (2)

Davis, R. E., 1991: OBSERVING THE GENERAL-CIRCULATION WITH FLOATS. *Deep Sea Research Part I: Oceanographic Research Papers*, **38**, S531-S571,
[http://dx.doi.org/10.1016/S0198-0149\(12\)80023-9](http://dx.doi.org/10.1016/S0198-0149(12)80023-9)

Davis, R. E., 1991: LAGRANGIAN OCEAN STUDIES. *Annual Review of Fluid Mechanics*, **23**, 43-64,