

- Barbieux, M., J. Uitz, A. Mignot, C. Roesler, H. Claustre, B. Gentili, V. Taillandier, F. D'Ortenzio, H. Loisel, A. Poteau, E. Leymarie, C. Penkerch, C. Schmechtig, and A. Bricaud, 2021: 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 BGC-Argo profiling floats. *Biogeosciences Discuss.*, **2021**, 1-74, <https://bg.copernicus.org/preprints/bg-2021-123/>
- 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. *Geophysical Research Letters*, **48**, e2020GL090909, <https://doi.org/10.1029/2020GL090909>
- 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**, 849-859, <https://doi.org/10.5194/bg-18-849-2021>
- 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, <https://doi.org/10.1016/j.marpolbul.2020.111844>
- Cliff, E., S. Khatiwala, and A. Schmittner, 2021: Glacial deep ocean deoxygenation driven by biologically mediated air-sea disequilibrium. *Nature Geoscience*, **14**, 43-50, <https://doi.org/10.1038/s41561-020-00667-z>
- 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. *Global Biogeochemical Cycles*, **35**, e2020GB006759, <https://doi.org/10.1029/2020GB006759>
- Cornec, M., R. Laxenaire, S. Speich, and H. Claustre, 2021: Impact of Mesoscale Eddies on Deep Chlorophyll Maxima. *Geophysical Research Letters*, **48**, e2021GL093470, <https://doi.org/10.1029/2021GL093470>
- 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**, 1011-1030, <https://os.copernicus.org/articles/17/1011/2021/>
- D'Ortenzio, F., V. Taillandier, H. Claustre, L. Coppola, P. Conan, F. Dumas, X. Durrieu du Madron, M. Fourier, A. Gogou, A. Karageorgis, D. Lefevre, E. Leymarie, A. Oviedo, A. Pavlidou, A. Poteau, P. M. Poulain, L. Prieur, S. Psarra, M. Puyo-Pay, M. Ribera d'Alcalà, C. Schmechtig, L. Terrats, D. Velaoras, T. Wagener, and C. Wimart-Rousseau, 2021: BGC-Argo Floats Observe Nitrate Injection and Spring Phytoplankton Increase in the Surface Layer of Levantine Sea (Eastern Mediterranean). *Geophysical Research Letters*, **48**, e2020GL091649, <https://doi.org/10.1029/2020GL091649>
- 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**, e2021JC017178, <https://doi.org/10.1029/2021JC017178>
- 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**,

- e2020JC016808, <https://doi.org/10.1029/2020JC016808>
- Ford, D., 2021: Assimilating synthetic Biogeochemical-Argo and ocean colour observations into a global ocean model to inform observing system design. *Biogeosciences*, **18**, 509-534, <https://doi.org/10.5194/bg-18-509-2021>
- 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**, <https://doi.org/10.3390/oceans2010016>
- 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**, <https://doi.org/10.3389/fmars.2021.613265>
- 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 Modelling*, **160**, 101768, <https://doi.org/10.1016/j.ocemod.2021.101768>
- Hague, M. and M. Vichi, 2021: Southern Ocean Biogeochemical Argo detect under-ice phytoplankton growth before sea ice retreat. *Biogeosciences*, **18**, 25-38, <https://doi.org/10.5194/bg-18-25-2021>
- 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**, e2021JC017274, <https://doi.org/10.1029/2021JC017274>
- Inoue, R., C. Sukigara, S. Bishop, E. Oka, and T. Nagai, 2021: Geophysical and biogeochemical observations using BGC Argo floats in the western North Pacific during late winter and early spring. Part 1: Restratification processes of the surface mixed layer. *Ocean Sci. Discuss.*, **2021**, 1-37, <https://os.copernicus.org/preprints/os-2021-38/>
- 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, <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*, <https://doi.org/10.1007/s12524-021-01317-6>
- 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**, <https://www.frontiersin.org/article/10.3389/fmars.2021.676537>
- 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**, e2020JC016685, <https://doi.org/10.1029/2020JC016685>
- Jorge, D. S. F., H. Loisel, C. Jamet, D. Dessailly, J. Demaria, A. Bricaud, S. Maritorena, X. Zhang, D. Antoine, T. Kutser, S. Bélanger, V. O. Brando, J. Werdell, E. Kwiatkowska, A. Mangin, and O. F. d'Andon, 2021: A three-step semi analytical algorithm (3SAA) for estimating inherent optical properties over oceanic, coastal, and inland waters from remote sensing reflectance. *Remote Sensing of Environment*, **263**, 112537,

- <https://doi.org/10.1016/j.rse.2021.112537>
- 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, <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. *Journal of Marine Systems*, **213**, 103461, <https://doi.org/10.1016/j.jmarsys.2020.103461>
- 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**, 11, <https://doi.org/10.1038/s41612-021-00166-x>
- 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**, 675-697, <https://os.copernicus.org/articles/17/675/2021/>
- 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**, 12288, <https://doi.org/10.1038/s41598-021-91547-y>
- Maneesha, K., D. H. Prasad, and K. V. K. R. K. Patnaik, 2021: Biophysical responses to tropical cyclone Hudhud over the Bay of Bengal. *Journal of Operational Oceanography*, **14**, 87-97, <https://doi.org/10.1080/1755876X.2019.1684135>
- 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, <https://doi.org/10.1016/j.dsr2.2021.104935>
- Mignot, A., H. Claustre, G. Cossarini, F. D'Ortenzio, E. Gutknecht, J. Lamouroux, P. Lazzari, C. Perruche, S. Salon, R. Sauzède, V. Taillandier, and A. Terruzzi, 2021: Defining BGC-Argo-based metrics of ocean health and biogeochemical functioning for the evaluation of global ocean models. *Biogeosciences Discuss.*, **2021**, 1-66, <https://bg.copernicus.org/preprints/bg-2021-2/>
- 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**, e2020JC016677, <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, <https://doi.org/10.1016/j.dsr2.2021.104926>
- 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**, 755-774, <https://doi.org/10.5194/bg-18-755-2021>
- Seelanki, V., T. Nigam, and V. Pant, 2021: Upper-ocean physical and biological features associated with Hudhud cyclone: A bio-physical modelling study. *Journal of Marine Systems*, **215**, 103499, <https://doi.org/10.1016/j.jmarsys.2020.103499>

- Su, J., P. G. Strutton, and C. Schallenberg, 2021: The subsurface biological structure of Southern Ocean eddies revealed by BGC-Argo floats. *Journal of Marine Systems*, **220**, 103569, <https://doi.org/10.1016/j.jmarsys.2021.103569>
- Sukigara, C., R. Inoue, K. Sato, Y. Mino, T. Nagai, A. J. Fassbender, Y. Takeshita, and E. Oka, 2021: Geophysical and biogeochemical observations using BGC Argo floats in the western North Pacific during late winter and early spring, Part 2: Biological processes during restratification periods in the euphotic and twilight layers. *Biogeosciences Discuss.*, **2021**, 1-26, <https://bg.copernicus.org/preprints/bg-2021-116/>
- Sutton, A. J., N. L. Williams, and B. Tilbrook, 2021: Constraining Southern Ocean CO₂ Flux Uncertainty Using Uncrewed Surface Vehicle Observations. *Geophysical Research Letters*, **48**, e2020GL091748, <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**, e2021JC017235, <https://doi.org/10.1029/2021JC017235>
- Terzić, E., A. Miró, P. Lazzari, E. Organelli, and F. D'Ortenzio, 2021: Radiative transfer modeling with BGC-Argo float data in the Mediterranean Sea. *Biogeosciences Discuss.*, **2021**, 1-30, <https://bg.copernicus.org/preprints/bg-2020-473/>
- Terzić, E., S. Salon, G. Cossarini, C. Solidoro, A. Teruzzi, A. Miró, and P. Lazzari, 2021: Impact of interannually variable diffuse attenuation coefficients for downwelling irradiance on biogeochemical modelling. *Ocean Modelling*, **161**, 101793, <https://doi.org/10.1016/j.ocemod.2021.101793>
- 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**, e2021JG006341, <https://doi.org/10.1029/2021JG006341>
- Ulses, C., C. Estournel, M. Fourrier, L. Coppola, F. Kessouri, D. Lefèvre, and P. Marsaleix, 2021: Oxygen budget of the north-western Mediterranean deep- convection region. *Biogeosciences*, **18**, 937-960, <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. *Progress in Oceanography*, **194**, 102570, <https://doi.org/10.1016/j.pocean.2021.102570>
- 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. *Progress in Oceanography*, **197**, 102631, <https://doi.org/10.1016/j.pocean.2021.102631>
- 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. *Progress in Oceanography*, **193**, 102543, <https://doi.org/10.1016/j.pocean.2021.102543>
- Wimart-Rousseau, C., T. Wagener, M. Álvarez, T. Moutin, M. Fourrier, L. Coppola, L. Niclas-Chirurgien, P. Raimbault, F. D'Ortenzio, X. Durrieu de Madron, V. Taillandier, F. Dumas, P. Conan, M. Pujo-Pay, and D. Lefèvre, 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**,
<https://doi.org/10.3389/fmars.2021.649246>
- Xing, X. and E. Boss, 2021: Chlorophyll-Based Model to Estimate Underwater Photosynthetically Available Radiation for Modeling, In-Situ, and Remote-Sensing Applications. *Geophysical Research Letters*, **48**, e2020GL092189, <https://doi.org/10.1029/2020GL092189>
- 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**, e2020JG006116, <https://doi.org/10.1029/2020JG006116>
- Zhao, D., Y. Xu, X. Zhang, and C. Huang, 2021: Global chlorophyll distribution induced by mesoscale eddies. *Remote Sensing of Environment*, **254**, 112245, <https://doi.org/10.1016/j.rse.2020.112245>

2020 (64)

- 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>
- 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. Nogr , C. Penker 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>
- 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>
- 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>
- Baldry, K., P. G. Strutton, 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>
- Beadling, R. L., J. L. Russell, R. J. Stouffer, M. Mazloff, L. D. Talley, P. J. Goodman, J. B. Sall e, 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Demuynck, 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>
- 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>
- 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>
- 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>
- 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>
- Haskell li, 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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 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://www.frontiersin.org/article/10.3389/fmars.2020.577408>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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, 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>
- 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>
- 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>
- Wu, Y., 2020: Investigation of surface ocean carbon distribution using large global dataset, University of Southampton, <http://eprints.soton.ac.uk/id/eprint/437856>
- 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>
- 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>

2019 (68)

- Ardyna, M., L. Lacour, S. Sergi, F. d'Ovidio, J.-B. Sallée, M. Rembauville, S. Blain, A. Tagliabue, R. Schlitzer, C. Jeandel, K. R. Arrigo, and H. Claustre, 2019: Hydrothermal vents trigger massive phytoplankton blooms in the Southern Ocean. *Nature Communications*, **10**, 2451, <https://doi.org/10.1038/s41467-019-09973-6>
- Barbieux, M., J. Uitz, B. Gentili, O. Pasqueron de Fommervault, A. Mignot, A. Poteau, C. Schmechtig, V. Taillandier, E. Leymarie, C. Penkerch, F. D'Ortenzio, H. Claustre, and A. Bricaud, 2019: Bio-optical characterization of subsurface chlorophyll maxima in the Mediterranean Sea from a Biogeochemical-Argo float database. *Biogeosciences*, **16**,

- 1321-1342, <https://doi.org/10.5194/bg-16-1321-2019>
- Bellacicco, M., M. Cornec, E. Organelli, R. J. W. Brewin, G. Neukermans, G. Volpe, M. Barbieux, A. Poteau, C. Schmechtig, F. D'Ortenzio, S. Marullo, H. Claustre, and J. Pitarch, 2019: Global Variability of Optical Backscattering by Non-algal particles From a Biogeochemical-Argo Data Set. *Geophysical Research Letters*, **46**, 9767-9776, <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**, 3032, <https://doi.org/10.3390/s19133032>
- Bernardi Bif, M., 2019: Understanding Resistant Organic Carbon in the Ocean: From Microbes to Large-Scale Processes, University of Miami, https://scholarlyrepository.miami.edu/oa_dissertations/2322
- Bif, M. B. and D. A. Hansell, 2019: Seasonality of Dissolved Organic Carbon in the Upper Northeast Pacific Ocean. *Global Biogeochemical Cycles*, **33**, 526-539, <https://doi.org/10.1029/2018GB006152>
- Bittig, H. C., T. L. Maurer, J. N. Plant, C. Schmechtig, A. P. S. Wong, H. Claustre, T. W. Trull, T. V. S. Udaya Bhaskar, E. Boss, G. Dall'Olmo, E. Organelli, A. Poteau, K. S. Johnson, C. Hanstein, E. Leymarie, S. Le Reste, S. C. Riser, A. R. Rupan, V. Taillandier, V. Thierry, and X. Xing, 2019: A BGC-Argo Guide: Planning, Deployment, Data Handling and Usage. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00502>
- 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**, 327-335, <https://doi.org/10.1038/s41586-019-1098-2>
- Bushinsky, S. M., Y. Takeshita, and N. L. Williams, 2019: Observing Changes in Ocean Carbonate Chemistry: Our Autonomous Future. *Current Climate Change Reports*, **5**, 207-220, <https://doi.org/10.1007/s40641-019-00129-8>
- 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**, 319-325, <https://doi.org/10.1038/s41586-019-1294-0>
- Caputi, L., Q. Carradec, D. Eveillard, A. Kirilovsky, E. Pelletier, J. J. Pierella Karlusich, F. Rocha Jimenez Vieira, E. Villar, S. Chaffron, S. Malviya, E. Scalco, S. G. Acinas, A. Alberti, J.-M. Aury, A.-S. Benoiston, A. Bertrand, T. Biard, L. Bittner, M. Boccara, J. R. Brum, C. Brunet, G. Busseni, A. Carratalà, H. Claustre, L. P. Coelho, S. Colin, S. D'Aniello, C. Da Silva, M. Del Core, H. Doré, S. Gasparini, F. Kokoszka, J.-L. Jamet, C. Lejeusne, C. Lepoivre, M. Lescot, G. Lima-Mendez, F. Lombard, J. Lukeš, N. Maillet, M.-A. Madoui, E. Martinez, M. G. Mazzocchi, M. B. Néou, J. Paz-Yepes, J. Poulain, S. Ramondenc, J.-B. Romagnan, S. Roux, D. Salvagio Manta, R. Sanges, S. Speich, M. Sprovieri, S. Sunagawa, V. Taillandier, A. Tanaka, L. Tirichine, C. Trottier, J. Uitz, A. Veluchamy, J. Veselá, F. Vincent, S. Yau, S. Kandels-Lewis, S. Searson, C. Dimier, M. Picheral, T. O. Coordinators, P. Bork, E. Boss, C. de Vargas, M. J. Follows, N. Grimsley, L. Guidi, P. Hingamp, E. Karsenti, P. Sordino, L. Stemmann, M. B. Sullivan, A. Tagliabue, A. Zingone, L. Garczarek, F. d'Ortenzio, P. Testor, F. Not, M. R. d'Alcalà, P. Wincker, C. Bowler, and D. Iudicone, 2019: Community-Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. *Global*

- Biogeochemical Cycles*, **33**, 391-419, <https://doi.org/10.1029/2018GB006022>
- 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. *Journal of Operational Oceanography*, 1-27, <https://doi.org/10.1080/1755876X.2019.1588697>
- Chakraborty, K., A. A. Lotliker, S. Majumder, A. Samanta, S. K. Baliarsingh, J. Ghosh, P. P. Madhuri, A. Saravanakumar, N. S. Sarma, B. S. Rao, and P. Shanmugam, 2019: Assessment of model-simulated upper ocean biogeochemical dynamics of the Bay of Bengal. *Journal of Sea Research*, **146**, 63-76, <https://doi.org/10.1016/j.seares.2019.01.001>
- 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**, 2705, <https://doi.org/10.3390/rs11222705>
- 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**, 15550, <https://doi.org/10.1038/s41598-019-51989-x>
- Ciavatta, S., S. Kay, R. J. W. Brewin, R. Cox, A. Di Cicco, F. Nencioli, L. Polimene, M. Sammartino, R. Santoleri, J. Skákala, and M. Tsapakis, 2019: Ecoregions in the Mediterranean Sea Through the Reanalysis of Phytoplankton Functional Types and Carbon Fluxes. *Journal of Geophysical Research: Oceans*, **124**, 6737-6759, <https://doi.org/10.1029/2019JC015128>
- 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 Modelling*, **133**, 112-128, <https://doi.org/10.1016/j.ocemod.2018.11.005>
- 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**, 2716-2727, <https://doi.org/10.1029/2018JC014786>
- Fennel, K., M. Gehlen, P. Brasseur, C. W. Brown, S. Ciavatta, G. Cossarini, A. Crise, C. A. Edwards, D. Ford, M. A. M. Friedrichs, M. Gregoire, E. Jones, H.-C. Kim, J. Lamouroux, R. Murtugudde, C. Perruche, t. G. O. M. E. A. , and P. T. Team, 2019: Advancing Marine Biogeochemical and Ecosystem Reanalyses and Forecasts as Tools for Monitoring and Managing Ecosystem Health. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00089>
- Foltz, G. R., P. Brandt, I. Richter, B. Rodríguez-Fonseca, F. Hernandez, M. Dengler, R. R. Rodrigues, J. O. Schmidt, L. Yu, N. Lefevre, L. C. Da Cunha, M. J. McPhaden, M. Araujo, J. Karstensen, J. Hahn, M. Martín-Rey, C. M. Patricola, P. Poli, P. Zuidema, R. Hummels, R. C. Perez, V. Hatje, J. F. Lübbecke, I. Polo, R. Lumpkin, B. Bourlès, F. E. Asuquo, P. Lehodey, A. Conchon, P. Chang, P. Dandin, C. Schmid, A. Sutton, H. Giordani, Y. Xue, S. Illig, T. Losada, S. A. Grodsky, F. Gasparin, T. Lee, E. Mohino, P. Nobre, R. Wanninkhof, N. Keenlyside, V. Garcon, E. Sánchez-Gómez, H. C. Nnamchi, M. Drévillon, A. Storto, E. Remy, A. Lazar, S. Speich, M. Goes, T. Dorrington, W. E. Johns, J. N. Moum, C. Robinson, C. Perruche, R. B. de Souza, A. T. Gaye, J. López-Parages, P.-A. Monerie, P. Castellanos, N. U. Benson, M. N. Hounkonnou, J. T. Duhá, R. Laxenaire, and N. Reul, 2019: The Tropical Atlantic Observing System. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00206>

- Freeman, N. M., D. R. Munro, J. Sprintall, M. R. Mazloff, S. Purkey, I. Rosso, C. A. DeRanek, 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**, 4763–4783, <https://doi.org/10.1029/2019JC015052>
- Fujii, Y., E. Rémy, H. Zuo, P. Oke, G. Halliwell, F. Gasparin, M. Benkiran, N. Loose, J. Cummings, J. Xie, Y. Xue, S. Masuda, G. C. Smith, M. Balmaseda, C. Germaineaud, D. J. Lea, G. Larnicol, L. Bertino, A. Bonaduce, P. Brasseur, C. Donlon, P. Heimbach, Y. Kim, V. Kourafalou, P.-Y. Le Traon, M. Martin, S. Paturi, B. Tranchant, and N. Usui, 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**, <https://doi.org/10.3389/fmars.2019.00417>
- Germaineaud, C., J.-M. Brankart, and P. Brasseur, 2019: An Ensemble-Based Probabilistic Score Approach to Compare Observation Scenarios: An Application to Biogeochemical-Argo Deployments. *Journal of Atmospheric and Oceanic Technology*, **36**, 2307–2326, <https://doi.org/10.1175/JTECH-D-19-0002.1>
- Girishkumar, M. S., V. P. Thangaprakash, T. V. S. Udaya Bhaskar, K. Suprit, N. Sureshkumar, S. K. Baliarsingh, J. Jofia, V. Pant, S. Vishnu, G. George, K. R. Abhilash, and S. Shivaprasad, 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**, 1945–1963, <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**, 674, <https://doi.org/10.1038/s41598-018-37370-4>
- 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**, 147–165, <https://doi.org/10.1029/2018JG004665>
- Groom, S., S. Sathyendranath, Y. Ban, S. Bernard, R. Brewin, V. Brotas, C. Brockmann, P. Chauhan, J.-k. Choi, A. Chuprin, S. Ciavatta, P. Cipollini, C. Donlon, B. Franz, X. He, T. Hirata, T. Jackson, M. Kampel, H. Krasemann, S. Lavender, S. Pardo-Martinez, F. Mélin, T. Platt, R. Santoleri, J. Skakala, B. Schaeffer, M. Smith, F. Steinmetz, A. Valente, and M. Wang, 2019: Satellite Ocean Colour: Current Status and Future Perspective. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00485>
- 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**, 1489–1516, <https://doi.org/10.5194/os-15-1489-2019>
- Hermes, J. C., Y. Masumoto, L. M. Beal, M. K. Roxy, J. Vialard, M. Andres, H. Annamalai, S. Behera, N. D'Adamo, T. Doi, M. Feng, W. Han, N. Hardman-Mountford, H. Hendon, R. Hood, S. Kido, C. Lee, T. Lee, M. Lengaigne, J. Li, R. Lumpkin, K. N. Navaneeth, B. Milligan, M. J. McPhaden, M. Ravichandran, T. Shinoda, A. Singh, B. Sloyan, P. G. Strutton, A. C. Subramanian, S. Thorston, T. Tozuka, C. C. Ummenhofer, A. S. Unnikrishnan, R. Venkatesan, D. Wang, J. Wiggert, L. Yu, and W. Yu, 2019: A Sustained Ocean Observing System in the Indian Ocean for Climate Related Scientific Knowledge and Societal Needs. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00355>

- 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, <https://doi.org/10.1016/j.dsr.2019.03.009>
- 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**, 1875-1882, <https://doi.org/10.1007/s12524-019-01034-1>
- Johnson, K. S., S. C. Riser, and M. Ravichandran, 2019: Oxygen Variability Controls Denitrification in the Bay of Bengal Oxygen Minimum Zone. *Geophysical Research Letters*, **46**, 804-811, <https://doi.org/10.1029/2018GL079881>
- 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. *Journal of Marine Systems*, **199**, 103220, <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. *Journal of Marine Systems*, **194**, 11-24, <https://doi.org/10.1016/j.jmarsys.2019.02.004>
- 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. *Global Biogeochemical Cycles*, **33**, 266-281, <https://doi.org/10.1029/2018GB005997>
- Le Traon, P. Y., A. Reppucci, E. Alvarez Fanjul, L. Aouf, A. Behrens, M. Belmonte, A. Bentamy, L. Bertino, V. E. Brando, M. B. Kreiner, M. Benkiran, T. Carval, S. A. Ciliberti, H. Claustre, E. Clementi, G. Coppini, G. Cossarini, M. De Alfonso Alonso-Muñoyerro, A. Delamarche, G. Dibarboure, F. Dinessen, M. Drevillon, Y. Drillet, Y. Faugere, V. Fernández, A. Fleming, M. I. Garcia-Hermosa, M. G. Sotillo, G. Garric, F. Gasparin, C. Giordan, M. Gehlen, M. L. Gregoire, S. Guinehut, M. Hamon, C. Harris, F. Hernandez, J. B. Hinkler, J. Hoyer, J. Karvonen, S. Kay, R. King, T. Lavergne, B. Lemieux-Dudon, L. Lima, C. Mao, M. J. Martin, S. Masina, A. Melet, B. Buongiorno Nardelli, G. Nolan, A. Pascual, J. Pistoia, A. Palazov, J. F. Piolle, M. I. Pujol, A. C. Pequignet, E. Peneva, B. Pérez Gómez, L. Petit de la Villeon, N. Pinardi, A. Pisano, S. Pouliquen, R. Reid, E. Remy, R. Santoleri, J. Siddorn, J. She, J. Staneva, A. Stoffelen, M. Tonani, L. Vandenbulcke, K. von Schuckmann, G. Volpe, C. Wettre, and A. Zacharioudaki, 2019: From Observation to Information and Users: The Copernicus Marine Service Perspective. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00234>
- Levin, L. A., B. J. Bett, A. R. Gates, P. Heimbach, B. M. Howe, F. Janssen, A. McCurdy, H. A. Ruhl, P. Snelgrove, K. I. Stocks, D. Bailey, S. Baumann-Pickering, C. Beaverson, M. C. Benfield, D. J. Booth, M. Carreiro-Silva, A. Colaço, M. C. Eblé, A. M. Fowler, K. M. Gjerde, D. O. B. Jones, K. Katsumata, D. Kelley, N. Le Bris, A. P. Leonardi, F. Lejzerowicz, P. I. Macreadie, D. McLean, F. Meitz, T. Morato, A. Netburn, J. Pawlowski, C. R. Smith, S. Sun, H. Uchida, M. F. Vardaro, R. Venkatesan, and R. A. Weller, 2019: Global Observing Needs in the Deep Ocean. *Frontiers in Marine Science*, **6**, <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. *Geophysical*

- Research Letters*, **46**, 4836-4843, <https://doi.org/10.1029/2018GL081639>
- 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**, 8400-8413, <https://doi.org/10.1029/2019JC015631>
- Lombard, F., E. Boss, A. M. Waite, M. Vogt, J. Uitz, L. Stemmann, H. M. Sosik, J. Schulz, J.-B. Romagnan, M. Picheral, J. Pearlman, M. D. Ohman, B. Niehoff, K. O. Möller, P. Miloslavich, A. Lara-Lpez, R. Kudela, R. M. Lopes, R. Kiko, L. Karp-Boss, J. S. Jaffe, M. H. Iversen, J.-O. Irisson, K. Fennel, H. Hauss, L. Guidi, G. Gorsky, S. L. C. Giering, P. Gaube, S. Gallager, G. Dubelaar, R. K. Cowen, F. Carlotti, C. Briseño-Avena, L. Berline, K. Benoit-Bird, N. Bax, S. Batten, S. D. Ayata, L. F. Artigas, and W. Appeltans, 2019: Globally Consistent Quantitative Observations of Planktonic Ecosystems. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00196>
- Maneesha, K., D. H. Prasad, and K. V. K. R. K. Patnaik, 2019: Biophysical responses to tropical cyclone Hudhud over the Bay of Bengal. *Journal of Operational Oceanography*, 1-11, <https://doi.org/10.1080/1755876X.2019.1684135>
- 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, <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, <https://doi.org/10.1016/j.ecolind.2018.08.053>
- Margolskee, A., H. Frenzel, S. Emerson, and C. Deutsch, 2019: Ventilation Pathways for the North Pacific Oxygen Deficient Zone. *Global Biogeochemical Cycles*, **33**, 875-890, <https://doi.org/10.1029/2018GB006149>
- 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**, S181-S184, <https://doi.org/10.1175/2019BAMSStateoftheClimate.1>
- 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. *Geophysical Research Letters*, **46**, 4330-4337, <https://doi.org/10.1029/2018GL080541>
- Moltmann, T., J. Turton, H.-M. Zhang, G. Nolan, C. Gouldman, L. Griesbauer, Z. Willis, Á. M. Piniella, S. Barrell, E. Andersson, C. Gallage, E. Charpentier, M. Belbeoch, P. Poli, A. Rea, E. F. Burger, D. M. Legler, R. Lumpkin, C. Meinig, K. O'Brien, K. Saha, A. Sutton, D. Zhang, and Y. Zhang, 2019: A Global Ocean Observing System (GOOS), Delivered Through Enhanced Collaboration Across Regions, Communities, and New Technologies. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00291>
- Newman, L., P. Heil, R. Trebilco, K. Katsumata, A. Constable, E. van Wijk, K. Assmann, J. Beja, P. Bricher, R. Coleman, D. Costa, S. Diggs, R. Farneti, S. Fawcett, S. T. Gille, K. R. Hendry, S. Henley, E. Hofmann, T. Maksym, M. Mazloff, A. Meijers, M. M. Meredith, S. Moreau, B. Ozsoy, R. Robertson, I. Schloss, O. Schofield, J. Shi, E. Sikes, I. J. Smith, S. Swart, A. Wahlin,

- G. Williams, M. J. M. Williams, L. Herraiz-Borreguero, S. Kern, J. Lieser, R. A. Massom, J. Melbourne-Thomas, P. Miloslavich, and G. Spreen, 2019: Delivering Sustained, Coordinated, and Integrated Observations of the Southern Ocean for Global Impact. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00433>
- Organelli, E. and H. Claustre, 2019: Small Phytoplankton Shapes Colored Dissolved Organic Matter Dynamics in the North Atlantic Subtropical Gyre. *Geophysical Research Letters*, **46**, 12183-12191, <https://doi.org/10.1029/2019GL084699>
- Pearlman, J., M. Bushnell, L. Coppola, J. Karstensen, P. L. Buttigieg, F. Pearlman, P. Simpson, M. Barbier, F. E. Muller-Karger, C. Munoz-Mas, P. Pissierssens, C. Chandler, J. Hermes, E. Heslop, R. Jenkyns, E. P. Achterberg, M. Bensi, H. C. Bittig, J. Blandin, J. Bosch, B. Bourles, R. Bozzano, J. J. H. Buck, E. F. Burger, D. Cano, V. Cardin, M. C. Llorens, A. Cianca, H. Chen, C. Cusack, E. Delory, R. Garello, G. Giovanetti, V. Harscoat, S. Hartman, R. Heitsenrether, S. Jirka, A. Lara-Lopez, N. Lantéri, A. Leadbetter, G. Manzella, J. Maso, A. McCurdy, E. Moussat, M. Ntoumas, S. Pensieri, G. Petihakis, N. Pinardi, S. Pouliquen, R. Przeslawski, N. P. Roden, J. Silke, M. N. Tamburri, H. Tang, T. Tanhua, M. Telszewski, P. Testor, J. Thomas, C. Waldmann, and F. Whoriskey, 2019: Evolving and Sustaining Ocean Best Practices and Standards for the Next Decade. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00277>
- 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, <https://doi.org/10.1016/j.dsr2.2019.03.005>
- 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. *Global Biogeochemical Cycles*, **33**, 1611-1630, <https://doi.org/10.1029/2019GB006305>
- Roemmich, D., M. H. Alford, H. Claustre, K. Johnson, B. King, J. Moum, P. Oke, W. B. Owens, S. Pouliquen, S. Purkey, M. Scanderbeg, T. Suga, S. Wijffels, N. Zilberman, D. Bakker, M. Baringer, M. Belbeoch, H. C. Bittig, E. Boss, P. Calil, F. Carse, T. Carval, F. Chai, D. Ó. Conchubhair, F. d'Ortenzio, G. Dall'Olmo, D. Desbruyeres, K. Fennel, I. Fer, R. Ferrari, G. Forget, H. Freeland, T. Fujiki, M. Gehlen, B. Greenan, R. Hallberg, T. Hibiya, S. Hosoda, S. Jayne, M. Jochum, G. C. Johnson, K. Kang, N. Kolodziejczyk, A. Körtzinger, P.-Y. L. Traon, Y.-D. Lenn, G. Maze, K. A. Mork, T. Morris, T. Nagai, J. Nash, A. N. Garabato, A. Olsen, R. R. Pattabhi, S. Prakash, S. Riser, C. Schmechtig, C. Schmid, E. Shroyer, A. Sterl, P. Sutton, L. Talley, T. Tanhua, V. Thierry, S. Thomalla, J. Toole, A. Troisi, T. W. Trull, J. Turton, P. J. Velez-Belchi, W. Walczowski, H. Wang, R. Wanninkhof, A. F. Waterhouse, S. Waterman, A. Watson, C. Wilson, A. P. S. Wong, J. Xu, and I. Yasuda, 2019: On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00439>
- 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**, 997-1022, <https://doi.org/10.5194/os-15-997-2019>
- 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. *Journal of Operational Oceanography*,

12, <https://doi.org/10.1080/1755876X.2018.1544783>

- Sloyan, B. M., R. Wanninkhof, M. Kramp, G. C. Johnson, L. D. Talley, T. Tanhua, E. McDonagh, C. Cusack, E. O'Rourke, E. McGovern, K. Katsumata, S. Diggs, J. Hummon, M. Ishii, K. Azetsu-Scott, E. Boss, I. Ansorge, F. F. Perez, H. Mercier, M. J. M. Williams, L. Anderson, J. H. Lee, A. Murata, S. Kouketsu, E. Jeansson, M. Hoppema, and E. Campos, 2019: The Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP): A Platform for Integrated Multidisciplinary Ocean Science. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00445>
- Smith, N., W. S. Kessler, S. Cravatte, J. Sprintall, S. Wijffels, M. F. Cronin, A. Sutton, Y. L. Serra, B. Dewitte, P. G. Strutton, K. Hill, A. Sen Gupta, X. Lin, K. Takahashi, D. Chen, and S. Brunner, 2019: Tropical Pacific Observing System. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00031>
- Talley, L. D., I. Rosso, I. Kamenkovich, M. R. Mazloff, J. Wang, E. Boss, A. R. Gray, K. S. Johnson, R. M. Key, S. C. Riser, N. L. Williams, and J. L. Sarmiento, 2019: Southern Ocean Biogeochemical Float Deployment Strategy, With Example From the Greenwich Meridian Line (GO-SHIP A12). *Journal of Geophysical Research: Oceans*, **124**, 403-431, <https://doi.org/10.1029/2018JC014059>
- 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**, 2527-2542, <https://doi.org/10.5194/bg-16-2527-2019>
- Tilbrook, B., E. B. Jewett, M. D. DeGrandpre, J. M. Hernandez-Ayon, R. A. Feely, D. K. Gledhill, L. Hansson, K. Isensee, M. L. Kurz, J. A. Newton, S. A. Siedlecki, F. Chai, S. Dupont, M. Graco, E. Calvo, D. Greeley, L. Kapsenberg, M. Lebrech, C. Pelejero, K. L. Schoo, and M. Telszewski, 2019: An Enhanced Ocean Acidification Observing Network: From People to Technology to Data Synthesis and Information Exchange. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00337>
- Tintoré, J. and N. Pinardi and E. Álvarez-Fanjul and E. Aguiar and D. Álvarez-Berastegui and M. Bajo and R. Balbin and R. Bozzano and B. B. Nardelli and V. Cardin and B. Casas and M. Charcos-Llorens and J. Chiggiato and E. Clementi and G. Coppini and L. Coppola and G. Cossarini and A. Deidun and S. Deudero and F. D'Ortenzio and A. Drago and M. Drudi and G. El Serafy and R. Escudier and P. Farcy and I. Federico and J. G. Fernández and C. Ferrarin and C. Fossi and C. Frangoulis and F. Galgani and S. Gana and J. García Lafuente and M. G. Sotillo and P. Garreau and I. Gertman and L. Gómez-Pujol and A. Grandi and D. Hayes and J. Hernández-Lasheras and B. Herut and E. Heslop and K. Hilmi and M. Juza and G. Kallos and G. Korres and R. Lecci and P. Lazzari and P. Lorente and S. Liubartseva and F. Louanchi and V. Malacic and G. Mannarini and D. Marchand S. Marullo and E. Mauri and L. Meszaros and B. Mourre and L. Mortier and C. Muñoz-Mas and A. Novellino and D. Obaton and A. Orfila and A. Pascual and S. Pensieri and B. Pérez Gómez and S. Pérez Rubio and L. Perivoliotis and G. Petihakis and L. P. de la Villéon and J. Pistoia and P.-M. Poulain and S. Pouliquen and L. Prieto and P. Raimbault and P. Reglero and E. Reyes and P. Rotllan and S. Ruiz and J. Ruiz and I. Ruiz and L. F. Ruiz-Orejón and B. Salihoglu and S. Salon and S. Sammartino and A. Sánchez Arcilla and A. Sánchez-Román and G. Sannino and R. Santoleri and R. Sardá and K. Schroeder and S. Simoncelli and S. Sofianos and G. Sylaios and T. Tanhua and A. Teruzzi and

- P. Testor and D. Tezcan and M. Torner and F. Trotta and G. Umgiesser and K. von Schuckmann and G. Verri and I. Vilibic and M. Yucel and M. Zavatarelli and G. Zodiatis, 2019: Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00568>
- Uchida, T., 2019: Seasonality in surface (sub)mesoscale turbulence and its impact on iron transport and primary production, Columbia University, <https://search.proquest.com/docview/2312585871?accountid=14524>
- 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**, 3934-3958, <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**, 7328-7343, <https://doi.org/10.1029/2019JC015355>
- Wang, Z. A., H. Moustahfid, A. V. Mueller, A. P. M. Michel, M. Mowlem, B. T. Glazer, T. A. Mooney, W. Michaels, J. S. McQuillan, J. C. Robidart, J. Churchill, M. Sourisseau, A. Daniel, A. Schaap, S. Monk, K. Friedman, and P. Brehmer, 2019: Advancing Observation of Ocean Biogeochemistry, Biology, and Ecosystems With Cost-Effective in situ Sensing Technologies. *Frontiers in Marine Science*, **6**, <https://doi.org/10.3389/fmars.2019.00519>
- Wilson, E. A., 2019: Sea ice and upper ocean variability in the southern ocean, University of Washington, <https://search.proquest.com/docview/2292188682?accountid=14524>
- 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, <https://doi.org/10.1016/j.scitotenv.2018.12.384>
- Yang, B., S. R. Emerson, and P. D. Quay, 2019: The Subtropical Ocean's Biological Carbon Pump Determined From O₂ and DIC/DI₁₃C Tracers. *Geophysical Research Letters*, **46**, 5361-5368, <https://doi.org/10.1029/2018GL081239>

2018 (46)

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Conan, P., P. Testor, C. Estournel, F. D'Ortenzio, M. Pujo-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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Leymarie, E., C. Penkerc'h, 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Siiriä, S., P. Roiha, L. Tuomi, T. Purokoski, N. Haavisto, and P. Alenius, 2018: Applying area-locked, shallow water Argo floats in Baltic Sea monitoring. *Journal of Operational Oceanography*, 1-15, <https://doi.org/10.1080/1755876X.2018.1544783>
- 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>
- 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>

- 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>
- Williams, N. L., L. W. Juraneck, 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>
- 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>

2017 (33)

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Karstensen, J., F. Schütte, A. Pietri, G. Krahmann, 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>

2016 (29)

- 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>
- 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>
- 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>
- 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>
- 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>
- 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 Geoscience*, **9**, 820-823, <http://dx.doi.org/10.1038/ngeo2818>
- 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>
- 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>
- 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>
- 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>
- 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. 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>
- Johnson, K. S. and H. Claustre, 2016: Bringing Biogeochemistry into the Argo Age. *Eos*, **97**, <https://doi.org/10.1029/2016EO062427>
- 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>
- 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>
- 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, 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Schütte, F., J. Karstensen, G. Krahmann, 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>
- 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>
- 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>
- Westberry, T. K., P. Schultz, M. J. Behrenfeld, J. P. Dunne, M. R. Hiscock, S. Maritorena, 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>
- 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>

2015 (12)

- 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,
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>

2014 (7)

- Bittig, H. C., B. Fiedler, R. Scholz, G. Krahmann, 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>

- 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>
- 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>
- 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>
- 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>
- 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>

2013 (6)

- 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>
- 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>
- Lavigne, H., F. D'Ortenzio, C. Migon, H. Claustre, P. Testor, M. R. d'Alcalà, 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>
- 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>
- 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>
- 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>

2012 (6)

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>

2011 (3)

- 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>
- 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>
- 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>

2010 (8)

- 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>
- 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>.
- 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>
- 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>
- 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>
- 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>

2009 (3)

- 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>
- 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>

2008 (4)

- 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
- 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
- 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>

2006 (1)

- Tengberg, A., J. Hovdenes, H. J. Andersson, O. Brocandel, R. Diaz, D. Hebert, T. Arnerich, C. Huber, A. Körtzinger, A. Khripounoff, F. Rey, C. Rönning, 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>

2005 (1)

- 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>

2002 (1)

- 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>