

2020 (10)

- 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>
- Briggs, N., G. Dall'Olmo, and H. Claustre, 2020: Major role of particle fragmentation in regulating biological sequestration of CO<sub>2</sub> 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>
- 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>
- 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>
- 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>
- 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*, 1-21, <https://doi.org/10.1080/01431161.2019.1707903>
- 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*, 1-18, <https://doi.org/10.1080/01431161.2020.1727057>
- 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>
- 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 (67)

- 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](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 N<sub>2</sub> 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.

- Garçon, E. Sánchez-Gómez, H. C. Nnamchi, M. Drévilion, 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. Germineaud, 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>
- Germineaud, C., J.-M. Brankart, and P. Brasseur, 2019: An Ensemble-Based Probabilistic Score Approach to Compare Observation Scenarios: An Application to Biogeochemical-Argo Deployments. *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. Thurston, 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 CO<sub>2</sub>. *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. Gallagher, 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>
- 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. Lebec, 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. Pinar 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. Hilm 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. Abernathy, 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. Abernathy, 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 O<sub>2</sub> and DIC/DI<sup>13</sup>C 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 CO<sub>2</sub> Variables and Nutrient Concentrations From T, S, and O<sub>2</sub> 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 pCO<sub>2</sub> 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 pCO<sub>2</sub>. *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. Penkerch, V. Vellucci, C. Lerebourg, D. Antoine, E. Boss, M. R. Lewis, F. D'Ortenzio, and H. Claustre, 2018: ProVal: A New Autonomous Profiling Float for High Quality Radiometric Measurements. *Frontiers in Marine Science*, **5**, <https://doi.org/10.3389/fmars.2018.00437>
- 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 Oxidic-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 CO<sub>2</sub>. *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-O<sub>2</sub> 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-O<sub>2</sub> 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. Krahnmann, B. Fiedler, D. Grundle, H. Hauss, A. Körtzinger, C. R. Löscher, P. Testor, N. Vieira, and M. Visbeck, 2017: Upwelling and isolation in oxygen-depleted anticyclonic modewater eddies and implications for nitrate cycling. *Biogeosciences*, **14**, 2167-2181, <https://doi.org/10.5194/bg-14-2167-2017>
- 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 pCO<sub>2</sub> 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 O<sub>2</sub>/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 N<sub>2</sub>O 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. Krahnemann, H. Hauss, B. Fiedler, P. Brandt, M. Visbeck, and A. Körtzinger, 2016: Characterization of "dead-zone" eddies in the eastern tropical North Atlantic. *Biogeosciences*, **13**, 5865-5881, <http://dx.doi.org/10.5194/bg-13-5865-2016>
- 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. Juraneck, 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. Mignon, 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. Krahnemann, and A. Körtzinger, 2014: Time response of oxygen optodes on profiling platforms and its dependence on flow speed and temperature.

*Limnology and Oceanography: Methods*, **12**, 617-636,  
<http://dx.doi.org/10.4319/lom.2014.12.617>

- 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 NO<sub>3</sub> 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 CO<sub>2</sub> and O<sub>2</sub> 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. Körtzinger, 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](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](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. Rønning, J. Schimanski, S. Sommer, and A. Stangelmayer, 2006: Evaluation of a lifetime-based optode to measure oxygen in aquatic systems. *Limnology and Oceanography: Methods*, **4**, 7-17, <http://dx.doi.org/10.4319/lom.2006.4.7>

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>