



## Publications

Peer-reviewed publications about GO-BGC programs, expeditions, and floats.

### **Scripps Argo Trajectory-Based Velocity Product: Global Estimates of Absolute Velocity Derived from Core, Biogeochemical, and Deep Argo Float Trajectories at Parking Depth.**

Zilberman, N. V., M. Scanderbeg, A.R. Gray, P.R. Oke (2023). Scripps Argo Trajectory-Based Velocity Product: Global Estimates of Absolute Velocity Derived from Core, Biogeochemical, and Deep Argo Float Trajectories at Parking Depth. *Journal of Atmospheric and Oceanic Technology*. Volume 40, Issue 3. <https://doi.org/10.1175/JTECH-D-22-0065.1>

### **Reviews and syntheses: Expanding the global coverage of gross primary production and net community production measurements using BGC-Argo floats.**

Izett, R. W., K. Fennel, A.C. Stoer, D.P. Nicholson (2023). Reviews and syntheses: Expanding the global coverage of gross primary production and net community production measurements using BGC-Argo floats. *Biogeosciences Discussions*. <https://doi.org/10.5194/bg-2023-46>

### **Partitioning the export of distinct biogenic carbon pools in the Northeast Pacific Ocean using a biogeochemical profiling float.**

Huang, Y., A. J. Fassbender, J.S. Long, S. Johannessen, & M. Bernardi Bif, M. (2022). Partitioning the export of distinct biogenic carbon pools in the Northeast Pacific Ocean using a biogeochemical profiling float. *Global Biogeochemical Cycles*, 36, e2021GB007178. <https://doi.org/10.1029/2021GB007178>

### **Building a Community of Biogeochemistry Float Data Users: An OCB and US CLIVAR Report**

Riser, S., A. Fassbender, K. Johnson, J. Sarmiento, L. Talley, S. Wijffels, R. Hotinski, A. Gray, Y. Takeshita, D. Nicholson, S. Purkey, T. Martz, G. I. Matsumoto, H. Cullen, 2023: Building a Community of Biogeochemistry Float Data Users. An OCB and US CLIVAR Report, 16 pp., doi:10.1575/1912/65885.

### **Updated temperature correction for computing seawater nitrate with ISUS and SUNA nitrate sensors.**

Plant, J. N., C. M. Sakamoto, K. S. Johnson, T. L. Maurer, M. B. Bif. (submitted). Updated temperature correction for computing seawater nitrate with ISUS and SUNA nitrate sensors. *Limnology and Oceanography: Methods*.

### **Acoustic float tracking with the Kalman smoother**

Chamberlain, P., B. Cornuelle, L. D. Talley, K. Speer, C. Hancock, and S. Riser (2023). Acoustic float tracking with the Kalman smoother. *J. Atm. Oceanic Tech.*, 40, 15-35. <https://doi.org/10.1175/JTECH-D-21-0063.1>.

## **Expanding Fleet of Autonomous Floating Robots Targets Deeper Understanding of Global Ocean Dynamics**

Palmer, C. (2023). Expanding Fleet of Autonomous Floating Robots Targets Deeper Understanding of Global Ocean Dynamics. *Engineering*. <https://doi.org/10.1016/j.eng.2023.01.001>

## **Real-time quality control of optical backscattering data from Biogeochemical-Argo floats**

Dall'Olmo, G., TVS. U. Bhaskar, H. Bittig, E. Boss, J. Brewster, H. Claustre, M. Donnelly, T. Maurer, D. Nicholson, , V. Paba, J. Plant, A. Poteau, R. Sauzède, C. Schallenberg, C. Schmechtig, C. Schmid, X. Xing (2022). Real-time quality control of optical backscattering data from Biogeochemical-Argo floats. *Open Research Europe*. 2 (118). <https://doi.org/10.12688/openreseurope.15047.1>

## **OneArgo: A New Paradigm for Observing the Global Ocean**

Owens, W. B., N. Zilberman, K.S. Johnson, H. Claustre, M. Scanderbeg, S. Wijffels, T. Suga (2022). OneArgo: A New Paradigm for Observing the Global Ocean. *Marine Technology Society Journal*. 56 (3) 84 to 90. <https://doi.org/10.4031/MTSJ.56.3.8>

## **What's climate change really doing to the ocean? Ask the robots**

Bif, M.B. (2022). What's climate change really doing to the ocean? Ask the robots. *Bulletin of the Atomic Scientists*.

## **The Technological, Scientific, and Sociological Revolution of Global Subsurface Ocean Observing**

Roemmich, D., L. Talley, N. Zilberman, E. Osborne, K.S. Johnson, L. Barbero, H.C. Bittig, N. Briggs, A.J. Fassbender, G.C. Johnson, B.A. King, E. McDonagh, S. Purkey, S. Riser, T. Suga, Y. Takeshita, V. Thierry, S. Wijffels (2022). The Technological, Scientific, and Sociological Revolution of Global Subsurface Ocean Observing. *Oceanography*. 34 (4) 2-8. <https://doi.org/10.5670/oceanog.2021.supplement.02-02>

## **A Global Ocean Biogeochemical Observatory Becomes Reality**

Schofield, O., A. Fassbender, M. Hood, K. Hill, K. Johnson (2022). A global ocean biogeochemical observatory becomes a reality. *Eos*. 103. <https://doi.org/10.1029/2022EO220149>

## **The Global Ocean Biogeochemistry (GO-BGC) Array of Profiling Floats to Observe Changing Ocean Chemistry and Biology**

Matsumoto, G. I., K.S. Johnson, S. Riser, L. Talley, S. Wijffels, R. Hotinski (2022). The Global Ocean Biogeochemistry (GO-BGC) Array of Profiling Floats to Observe Changing Ocean Chemistry and Biology. *Marine Technology Society Journal*. 56 (3) 122 to 123. <https://doi.org/10.4031/MTSJ.56.3.25>

## **Constraint on net primary productivity of the global ocean by Argo oxygen measurements**

Johnson, K.S. and M.B. Bif (2021). Constraint on net primary productivity of the global ocean by Argo oxygen measurements. *Nature Geoscience*. <https://doi.org/10.1038/s41561-021-00807-z>

Video abstract: <https://youtu.be/ikoyg04JZFc>

## **Global Ocean Climate Change: Observing From Ships**

Talley, L. (2021) Global Ocean Climate Change: Observing From Ships. *Frontiers for Young Minds*. 9:495240. <https://doi.org/10.3389/frym.2021.495240>