

The PIER Review



Welcome to the July 2018 issue of the PIER Review, the monthly GOA-ON Pier2Peer newsletter. The Review highlights accomplishments, provides updates for our members, highlights open-access research on ocean acidification, and shares funding or job opportunities. Please send all of your ideas for the newsletter to Meredith Kurz (meredith.kurz@noaa.gov) and we will be sure to incorporate your feedback into future editions of The PIER Review.

P2P FEATURE

This month's P2P feature introduces the forthcoming methodology for the Sustainable Development Goal (SDG) target indicator 14.3.1, "average marine acidity measured at an agreed suite of representative sampling stations."

The [SDGs](#) are a set of seventeen collective global goals that were set by the United Nations General Assembly in 2015 to succeed the Millennium Development Goals. The formal name of this broad and interrelated set of goals is "Transforming our World: the 2030 Agenda for Sustainable Development," also known as the 2030 Agenda. Each goal has a set of targets to achieve by 2030, and associated indicators that measure progress toward each target. Access to some of the indicator data is available [here](#). The 193 member states of the UN General Assembly agreed to voluntarily [report progress](#) on the SDGs when they adopted the 2030 Agenda, and civil society organizations and businesses are also encouraged to participate.

SDG14, "Conserve and sustainably use the oceans, seas, and marine resources for sustainable development," includes ten targets. **Target 14.3 is "Minimize and address the impacts of ocean acidification, including through enhanced scientific cooperation at all levels,"** and the indicator for meeting this target is the aforementioned "average marine acidity measured at an agreed suite of representative sampling stations." The Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO) is the custodian agency of target indicator 14.3.1, meaning that they are charged with developing methodology for carrying out indicator measurements, receiving, and compiling the data. IOC-UNESCO worked with the GOA-ON Executive Council to prepare the SDG14.3.1 indicator methodology to ensure that it reflects the best practices established by the ocean acidification community.

As an ocean acidification researcher, you may hear about the SDG14.3.1 indicator methodology and the associated reporting process in the coming months. The IOC-UNESCO Executive Council is holding its 51st Session from 3-6 July and will be reviewing the [draft SDG14.3.1 indicator methodology](#), which has been reviewed and endorsed by the GOA-ON Executive Council. If it is endorsed by the IOC-UNESCO Executive Council, collection of pilot data sets will begin later in the year.

BECOME A Pier2Peer RECRUITER

We are always recruiting senior and experienced OA observing experts to serve as mentors and early career scientists from emerging regions to become mentees. If you know someone who would be a good mentor or mentee, direct them to the [Pier2Peer website](#) or put them in contact with Meredith Kurz (meredith.kurz@noaa.gov).

If you are attending a meeting or event, are interested in sharing a few slides on the program and disseminating sign-up information, please email Meredith and we will send you communication materials and sign-up sheets for your upcoming event. And thanks!

UPCOMING EVENTS and CONFERENCES

[The 4th GEO Blue Planet Symposium on Oceans and Society](#) will be held on 4-6 July 2018 in Toulouse, France. Abstract submission is closed, registration is still open.

[The International Council for the Exploration of the Sea \(ICES\) Annual Science Conference 2018](#) will be held on 24-27 September 2018 in Hamburg, Germany. Abstract submission is closed but registration is still open.

[The Sustainable Ocean Summit](#) organized by the World Ocean Council will be held on 14-16 November 2018 in Hong Kong.

[OceanObs'19](#) is part of a decadal conference series on setting ocean observation priorities to be held on 16-20 September 2019 in Honolulu, Hawaii, U.S.A. Abstract submission for white papers is closed; registration and a call for posters will be open in the fall of 2018. OceanObs'19 is expecting 1400-1500 attendees and will announce some scholarships to attend for early career scientists and those working in developing nations at a later date.

UPCOMING OA Workshops

The Ocean Foundation has released a **Request for Proposals by institutions in Latin America and the Caribbean to host a regional workshop and science and policy training as part of the Ocean Acidification Monitoring and Mitigation (OAMM) project**. Primary venue needs include a lecture hall that accommodates up to 100 people, additional meeting space, and a lab that can accommodate up to 30 people. The workshop will consist of two sessions that will span across two weeks and will occur in the Latin America and Caribbean region in the second half of January 2019. [Proposals must be submitted no later than 31 July, 2018, details here.](#)

FUNDING and JOB OPPORTUNITIES

The Ocean Foundation Pier2Peer Scholarships

Organization: The Ocean Foundation

Description: Small grant program providing funds to Pier2Peer matches to collaborate on a project, conduct training visits, collect data for GOA-ON submission, etc.

Requirements: Applicants must be in a Pier2Peer partnership and applying to use funds to support this collaboration.

Amount: USD 5,000

Application Deadline: July 16th is the due date for the Summer 2018 review period; applications are accepted on a continuing basis; submit to avalauriorton@oceanfdn.org and meredith.kurz@noaa.gov.

Application Details: Attachment with this email

UK Darwin Main Project Funding – Round 25

Organization: United Kingdom Darwin Initiative

Description: Supports projects tackling biodiversity threats in developing countries. Of particular relevance to this call is tackling the threats to marine biodiversity, such as damage to coral reefs, plastic waste and building resilience to ocean acidification.

Requirements: Check [application details](#) to ensure your country is eligible.

Amount: No specific maximum, check details for guidance on reasonable limits.

Application Deadline: 24 July

[Application Details](#)

Western Indian Ocean Marine Science Association Marine Research Grant Programme

Organization: Western Indian Ocean Marine Science Association (WIOMSA)

Description: The award is designed to enhance the capacity of scientists in the Western Indian Ocean region to conduct marine research. There are three tiers (MARG I, II, III) that vary in duration and amount. MARG I applications are closed.

Requirements: Applicants should be young scientists studying the Western Indian Ocean region

Amount: USD 3,000 (MARG III), USD 6,000 (MARG II)

Application Deadline: 30 September 2018 for MARG II, no deadline for MARG III

[Application Details](#)

US Agency for International Development Partnership for Enhanced Education and Research

Organization: US Agency for International Development and US National Science Foundation

Description: The award is intended to foster international partnerships between eligible developing country institutions and a partner US institution.

Requirements: Applications must be submitted together by representatives from either a higher education institution in the US or from a higher education institution in a developing country. Either institution may be the prime awardee and the two institutions must have well developed plans to collaborate. [Examples of previous awards](#)

Amount: USD 500,00 to 1,000,000

Application Deadline: Next deadline January 2019; proposals can take a while to develop
[Application Details](#)

EMBO Short-Term Travel Fellowships

Organization: European Molecular Biology Organization

Description: The fellowship funds research exchanges of up to three months between laboratories in [eligible member countries and cooperation partners](#).

Requirements: Applicants must be from one of the member or cooperation countries and traveling to a lab in another member or cooperation country. Research must be related to life sciences. The travel must be associated with a larger project and not just limited to training in a technique, though it can include that type of training.

Amount: Travel and living costs of the traveling fellow

Application Deadline: Three months before proposed starting date of travel

[Application Details](#)

Jobs Lists:

[The Global Marine Community Newsletter & Jobs List](#)

[Josh's Water Jobs List](#)

NEWS and links to select OPEN ACCESS ARTICLES on OA

News:

Please note that in order to view the links to these stories, you will have to have an account with the Ocean Acidification Information Exchange (OAIE). It is easy to [join](#)!

[A series of three workshops on citizen science](#) in coastal acidification monitoring were recently conducted by the US Northeast Coastal Acidification Network (NECAN). The workshops explored methods for citizen ocean monitoring groups to observe coastal acidification as part of their existing water quality monitoring efforts. Posted by Beth Turner of NECAN.

[Researchers at Rutgers University](#) in the US deployed the first integrated glider platform and sensor system for sampling pH in the water column of the coastal ocean, a significant development in observing coastal ocean conditions using autonomous coastal gliders. Posted by Grace Saba of Rutgers.

Science:

Boxhammer, T., Taucher, J., Bach, L.T., Achterberg, E.P., Algueró-Muñiz, M., Bellworthy, J., Czerny, J., Esposito, M., Haunost, M., Hellemann, D., Ludwig, A., Yong, J.C., Zark, M., Riebesell, U., and L.G. Anderson. 2018. [Enhanced transfer of organic matter to higher trophic levels caused by ocean acidification and its implications for export production: a mass balance approach](#). *PLoS One* 13(5): e0197502.

- Gao, G., Beardall, J., Bao, M., Wang, C., Ren, W., and J. Xu. 2018. [Ocean acidification and nutrient limitation synergistically reduce growth and photosynthetic performances of a green tide alga *Ulva linza*](#). *Biogeosciences* 15:2409-3420.
- Heinze, C., T. Ilyina, and M. Gehlen. 2018. [The potential of \$^{230}\text{Th}\$ for detection of ocean acidification impacts on pelagic carbonate production](#). *Biogeosciences* 15:3521-3539.
- Hernández-Hernández, N., Bach, L.T., Montero, M.F., Taucher, J., Baños, I, Guan, W., Espósito, M., Ludwig, A., Achterberg, E.P., Riebesell, U., and J. Arístegui. 2018. [High \$\text{CO}_2\$ under nutrient fertilization increases primary production and biomass in subtropical phytoplankton communities: a mesocosm approach](#). *Frontiers in Marine Science* doi: 10.3389/fmars.2018.00213
- Moore-Maley, B.L., Ianson, D., and S.E. Allen. 2018. [The sensitivity of estuarine aragonite saturation state and pH to the carbonate chemistry of a freshet-dominated river](#). *Biogeosciences*. 15: 3743-3760.
- Palter, J.B., Frölicher, T.L., Paynter, D., and J.G. John. 2018. [Climate, ocean circulation, and sea level changes under stabilization and overshoot pathways to 1.5K warming](#). *Earth System Dynamics* 9: 817-828.
- Richard, M., Xu, W., Mallozzi, A., Errera, R.M., and J. Supan. 2018. [Production of calcium-binding proteins in *Crassostrea virginica* in response to increased environmental \$\text{CO}_2\$ concentration](#). *Frontiers in Marine Science*. doi: 10.3389/fmars.2018.00203