



## OA observing news

Issue 4, December 2017

*Newsletter of the Global Ocean Acidification Observing Network ([GOA-ON](#))*

### Network Updates

#### **New GOA-ON Distributed Secretariat**

IOC-UNESCO and the International Atomic Energy Agency have developed a reinforced Partnership to contribute to a distributed GOA-ON Secretariat. There will soon be two full-time positions, one based at IOC-UNESCO in Paris and the other at the IAEA Environment Laboratories in Monaco, who will strengthen the GOA-ON distributed Secretariat for the next two years, and help with the coordination of all of GOA-ON's activities, in close collaboration with the other Partners of the Network. These two positions are in addition to one position that already exists at the US National Oceanic and Atmospheric Administration; collectively these three roles will form the basis of a distributed GOA-ON secretariat. This reinforcement of the GOA-ON Secretariat will accelerate progress on all GOA-ON's activities towards increased OA research and monitoring capacity across the globe and centralized ocean acidification data.

Contact: Lina Hansson ([L.Hansson@iaea.org](mailto:L.Hansson@iaea.org)) & Kirsten Isensee ([k.isensee@unesco.org](mailto:k.isensee@unesco.org))

### Upcoming Events

#### **New course on carbonate chemistry and stable isotopes in the Galapagos Islands April 2018**

In April 2018, an international course and long-term experiment will be held in the Galapagos Islands. This course will mostly focus in carbon chemistry and use of stable isotopes for tracking carbon sources and changes in community structure in a natural CO<sub>2</sub> seep recently discovered in Roca Redonda, Galapagos. The course is currently being organized; more information about dates, invitations and content can be requested from Cristian Vargas.

Contact: Cristian Vargas ([crvargas@udec.cl](mailto:crvargas@udec.cl))

This e-newsletter is an effort by the GOA-ON Executive Council to keep the community engaged and informed about all the various related activities that are happening around the world. We intend to produce it bi-annually. If you have any upcoming activities, comments, or suggestions of items that you would like to see in this newsletter please email [maxwell.kaplan@noaa.gov](mailto:maxwell.kaplan@noaa.gov).



## **GOA-ON session at Ocean Sciences Meeting 11-16 February 2018**

GOA-ON is hosting a session at the 2018 Ocean Sciences meeting entitled “The Global Ocean Acidification Observing network, GOA-ON: linking local information globally.” The session includes presentations that provide insights and progress on the three GOA-ON goals, and those that demonstrate how regional hubs are fostering scientific collaborations around the world. All GOA-ON members who will be at the Ocean Sciences meeting are encouraged to attend this session.

Contact: Jan Newton ([janewton@uw.edu](mailto:janewton@uw.edu))

## **Session on ocean acidification at 4<sup>th</sup> Climate Change Symposium 4-8 June 2018**

This summer, at The Effects of Climate Change on the World’s Oceans, held in Washington DC, there will be a session entitled “Carbon uptake, ocean acidification, and ecosystems and human impacts.” This session will include talks on GOA-ON. Those who will be at the meeting are encouraged to attend this session. Abstract submission closes 12 January 2017.

Contact: Libby Jewett ([libby.jewett@noaa.gov](mailto:libby.jewett@noaa.gov))

## **Abstract submission open for OceanObs ’19 in Honolulu, 16-20 September 2019**

The [OceanObs’19 conference](#) will galvanize ocean observing communities to improve coordination of regional and national efforts to better observe the global ocean, to better respond to the joint scientific and societal needs of a fit-for-purpose ocean observing system, and maximize the overall benefit of more integrated observing.

Contact: Maciej Telszewski ([m.telszewski@ioccp.org](mailto:m.telszewski@ioccp.org))

## **Pier2Peer Program Updates**

### **Pier2Peer funding opportunity**

The Ocean Foundation is pleased to announce a new funding opportunity for Global Ocean Acidification Observing Network Pier2Peer program members. This year, ten awards of up to USD \$5000 will be available to help support international collaborations between mentors and mentees.

#### Objectives

This funding opportunity will allow Pier2Peer program participants to collaborate, thereby enhancing the quality and coverage of OA observations around the world.

#### Scope

Proposals will outline collaborative projects. The aim of the projects may include one or more activities, such as hands-on training with observing equipment, learning new sample analysis techniques, data analysis, data management training, manuscript preparation, joint proposal writing, and initiation or consolidation of joint observing projects. The funding is not intended to support travel to attend conferences. Proposals will be evaluated based on the potential to achieve the proposed activities. The funds granted must be spent within twelve months of receipt, and can be partitioned between the mentor and mentee as desired.

#### Applications



1. Applications should be jointly submitted by the Pier2Peer mentor and mentee and should contain the following:
2. Project proposal (500 words), including a description of the collaboration plan and expected outcomes;
3. Proposal budget, noting the amounts requested by mentor and mentee;
4. Brief biographical sketch of applicants (one paragraph each).

#### Submission information

Please submit your applications to Alexis Valauri-Orton ([avalauriorton@oceanfdn.org](mailto:avalauriorton@oceanfdn.org)). Applications will be accepted on a rolling basis and awards will be made pending the availability of funds. Grant recipients will commit to submitting a report within three months of the completion of their project that details the outcomes of their collaboration.

Contact: Alexis Valauri-Orton ([avalauriorton@oceanfdn.org](mailto:avalauriorton@oceanfdn.org))

#### **Join Pier2Peer today**

Pier2Peer is a scientific mentorship program supporting the expansion of OA observing capacity through two way sharing and capacity building activities. [Consider becoming a mentor or mentee today.](#)

Contact: Max Kaplan ([maxwell.kaplan@noaa.gov](mailto:maxwell.kaplan@noaa.gov))

#### **Recent Activities**

##### **Marine Evolution Under Climate Change Course in Chile, 17-23 December 2017**

An international course in Chile, “Marine Evolution Under Climate Change”, is fully funded by the Center for the Study of Multiple-Drivers on Marine Socio-Ecological Systems (MUSELS), and will take place at the Quintay Marine Research Centre, Chile. The invited teachers are Sam Dupont (Sweden) and Piero Calosi (Canada).

Contact: Cristian Vargas ([crvarqas@udec.cl](mailto:crvarqas@udec.cl))

##### **GOA-ON recognized in the UN General Assembly’s annual resolution on oceans**

On December 5, 2017, the United Nations General Assembly [adopted an omnibus text](#) titled “Oceans and the Law of the Sea” ([document A/72/L.18](#)), which “Notes the international scientific cooperation within the Global Ocean Acidification Observing Network and its efforts in building scientific capacity for ocean acidification monitoring, research and experimentation, including through the Pier2Peer scientific mentorship programme;” and “Recognizes the attention paid to ocean acidification at the fourteenth and eighteenth meetings of the Informal Consultative Process, and commits itself to continue to pay attention to this important issue, including by taking into account the First Global Integrated Marine Assessment (the first World Ocean Assessment), the ongoing work of the Ocean Acidification International Coordination Centre and the scientific cooperation fostered by the Global Ocean Acidification Observing Network.”

Contact: Max Kaplan ([maxwell.kaplan@noaa.gov](mailto:maxwell.kaplan@noaa.gov))

##### **Training on ocean acidification and first biological experiments in Costa Rica (November 2017)**

PhD candidate Celeste Sánchez Noguera from the Centro de Investigación en Ciencias del Mar y Limnología (CIMAR) at the University of Costa Rica and Dr. Sam Dupont from the University of

Gothenburg met for the first time in Tasmania in May 2016 at the 4th Symposium on the Ocean in a High CO<sub>2</sub> World and the 3rd Science meeting of the Global Ocean Acidification Observing Network (GOA-ON). With the support of a SCOR visiting scholar grant and CIMAR, they organized a training workshop on best practices in ocean acidification in November 2017. They also built an experimental set-up allowing them to manipulate the carbonate chemistry in a replicated aquarium system, where they tested the impact of OA on larval stages of invertebrates.



This was also an opportunity to evaluate strengths and challenges to develop monitoring and research in Costa Rica. Costa Rica is well known for its conservation efforts with important achievements in marine resources protection. During Dr. Dupont's visit, six different projects were identified including a monitoring strategy to evaluate the variability of this unique coastal system along Central America and experiments that will take advantage of the two coasts (Pacific and Caribbean) and the influence of an upwelling system (Papagayo) to test hypotheses on the relationship between natural variability, local adaptation and species sensitivity.

Contact: Sam Dupont ([sam.dupont@gu.se](mailto:sam.dupont@gu.se)) & Celeste Sánchez Noguera ([celeste08@gmail.com](mailto:celeste08@gmail.com))

### **Ocean acidification training course in Suva, Fiji, 30 October – 10 November 2017**

A training workshop on ocean acidification monitoring was held at the University of the South Pacific in Suva, Fiji. Twenty-two participants from eleven nations were in attendance. Trainers included Dr. Kim Currie (New Zealand), Dr. Max Kaplan and Dr. Chris Sabine (USA). This workshop was supported by the US Department of State and the Swedish International Development Agency and was organized by the Secretariat of the Pacific Regional Environment Program and The Ocean Foundation, in addition to numerous other partners including the X-PRIZE Foundation, the Commonwealth Marine Economies Programme, the Global Ocean Acidification Observing Network (GOA-ON), the IAEA Ocean Acidification International Coordination Centre, and the NOAA Ocean Acidification Program. Participants received lectures on ocean acidification impacts to marine ecosystems and how to measure carbonate chemistry, as well as practical hands-on training on autonomous sensor use and lab pH and total alkalinity analyses. This workshop supports the GOA-ON goal 1, "Improve our understanding of OA conditions" by increasing regional expertise, resulting in increased spatial coverage of ocean chemistry observations.

Contact: Max Kaplan ([maxwell.kaplan@noaa.gov](mailto:maxwell.kaplan@noaa.gov))

## First Latin-American Ocean Acidification Symposium, Buenos Aires, 24-26 October 2017

You can download the Abstract Book from: [http://laoca.cl/congreso2017/wp-content/uploads/2017/10/Programa\\_Libro\\_Resumenes\\_LAOCA2017-1.pdf](http://laoca.cl/congreso2017/wp-content/uploads/2017/10/Programa_Libro_Resumenes_LAOCA2017-1.pdf)

Contact: Cristian Vargas ([crvargas@udec.cl](mailto:crvargas@udec.cl))

## Developing capacity for ocean acidification in the western Indian Ocean, 24-25 October 2017

The Western Indian Ocean Marine Science Association (WIOMSA) [Ocean Acidification Workshop](#), held in Dar Es Salaam, Tanzania, provided a platform for a range of stakeholders, including scientists and policymakers, to discuss how to improve knowledge on the current and expected impacts of reduced pH on marine life in the region. Twenty-three international experts representing international organizations and six countries from the Western Indian Ocean (WIO) (Kenya, Madagascar, Mauritius, Mozambique, South Africa and Tanzania)



used this unique opportunity to develop strategies to improve their scientific capacity to detect and observe the effects of ocean acidification, based on their countries' vulnerability to ocean change. The two-day workshop was kindly hosted by [WIOMSA](#) and the [Nairobi Convention Secretariat](#), supported by [IOC-UNESCO](#), [Future Earth Coasts](#), the [Global Ocean Acidification Observing Network \(GOA-ON\)](#), and the [Ocean Acidification International Coordination Centre \(OA-ICC\) of the IAEA](#).

Contact: Kirsten Isensee ([k.isensee@unesco.org](mailto:k.isensee@unesco.org))

## Portal Update Request

### Please submit your OA monitoring assets to the GOA-ON data portal

The [GOA-ON data portal](#) displays OA monitoring assets around the world, including some display of near-real-time data streams. However, several geographic gaps remain. If you are working in an area that is not represented on the data portal, please [submit your asset information](#). The data portal helps researchers and policymakers around the world identify where there are monitoring gaps and where resources could be better directed.

Contact: Cathy Cosca ([cathy.cosca@noaa.gov](mailto:cathy.cosca@noaa.gov))