

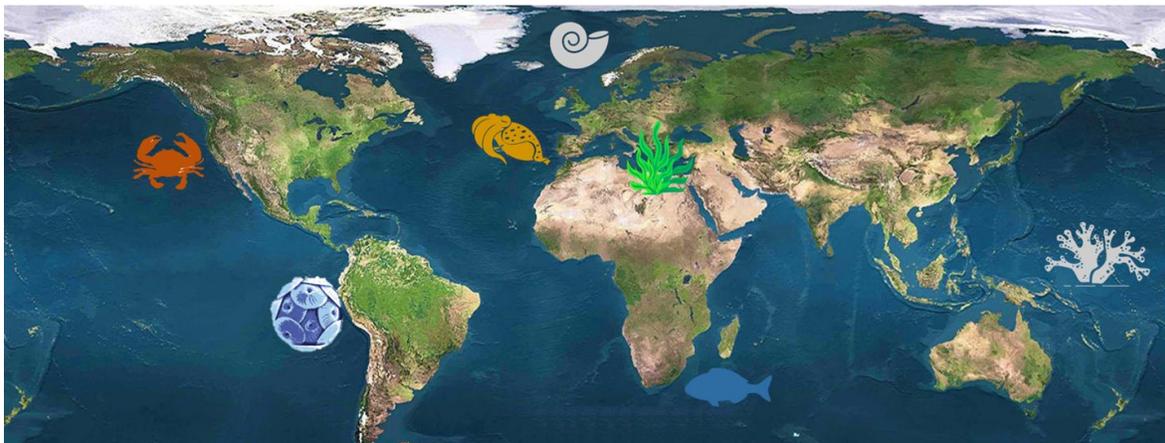


Global Ocean Acidification
Observing Network

Newsletter of the Global Ocean Acidification Observing Network (GOA-ON)

Issue 13, December 2020

GOA-ON News



OA Week 2020

In September, GOA-ON hosted Ocean Acidification Week 2020. This multi-day forum consisted of 10 sessions that highlighted the latest in OA research and initiatives. The sessions featured presentations from across the GOA-ON regional hubs, including GOA-ON's newest - the Arctic Hub. One of the sessions was presented by organizations that work closely with GOA-ON, including GOOS, MBON, TOF, and OA Alliance. The final session, the capstone, was a conversation between the co-chairs of GOA-ON and co-chair of the upcoming High CO₂ Symposium. Here, Jan Newton, Bronte Tilbrook, and Jean-Pierre Gattuso discussed what they saw as the biggest challenges related to OA as well as what makes them most hopeful for the future.

OA Week 2020 brought tremendous attention to GOA-ON and the upcoming [5th International Symposium on the Ocean in a High CO₂ World](#). Nearly every session had more than 100 participants, who logged on from around the globe. Researchers, policy makers, and other stakeholders actively participated during the sessions and over



GOA-ON's [Twitter](#) and [Facebook](#) page. Moreover, the conversations sparked during the sessions continued after OA Week on the [OA Information Exchange](#).

Traffic to the GOA-ON website increased dramatically during the month leading up to OA Week, with more than 2400 page views from 955 new users. Engagement with GOA-ON's Facebook page also increased during this period - by more than 2900%! GOA-ON also added more than 45 members in the two month period around OA Week, doubling the amount of new members since the start of 2020.

OA Week 2020 demonstrated that despite the challenges posed by the coronavirus pandemic, the GOA-ON community remains as resilient and adaptable as ever. All session recordings can be viewed on the [GOA-ON Youtube Channel](#).

GOA-ON Webinar Series: Speakers Wanted!

Following the success of OA Week 2020, GOA-ON will begin regularly hosting webinars. The goal of the GOA-ON Webinar Series is to foster greater collaboration and a sense of community among GOA-ON members. GOA-ON also hopes to use this webinar series to lift the voices of early career scientists and other members of the GOA-ON research community who wish to share their science with a broader audience. If you are interested in giving a presentation or would like to suggest a topic, please send an email to the GOA-ON Secretariat (secretariat@goa-on.org).

Thank you, Marine Lebre!

Marine has officially ended her tenure with the IAEA OA-ICC and is no longer a member of the GOA-ON Secretariat. She has now joined the [Moss Landing Marine Labs](#) as a graduate student in chemical oceanography and we wish her every success in her new endeavour.

In the GOA-ON Secretariat, Marine was responsible for many of the day-to-day functions of GOA-ON: coordinating meetings, supporting the Mediterranean and African regional hubs, organising capacity building activities and keeping the GOA-ON Data Portal up-to-date. Additionally, she managed the OA-ICC news stream and bibliographic database, which now contains over 6300 documents.

Over the past few years, Marine played an important role in the success and expansion of GOA-ON. As such, the GOA-ON co-chairs, Executive Council, and Secretariat would like to acknowledge all of Marine's hard work, her diligence, kindness, and great sense of humor, and send her a big thank you! We miss Marine, but we feel confident she will remain an active member of the GOA-ON community. Au revoir, Marine!





GOA-ON in a Box Instructional Videos

The GOA-ON in a Box Instructional Videos Series was produced by The Ocean Foundation in partnership with GOA-ON, IAEA OA-ICC, and IOC UNESCO. Alexis Valauri-Orton, Chris Sabine, Andrew Dickson, Sophie Chu, Kim Currie, Lina Hansson, Leticia Barbero, Melissa Meléndez, Damboia Cossa, and many others helped to create this content.

There are four videos that cover different aspects of the GOA-ON in a Box kit. These videos review the operation of the kit's specialized equipment and outline the protocols for collecting ocean acidification data.

1. Measuring Alkalinity of Discrete Samples
2. Measuring pH of Discrete Samples
3. Collecting Discrete Samples for Analysis
4. How and Why to Use Certified Reference Materials

These videos provide an opportunity for individuals who have received training in the past, but wish to refresh their memories. These videos are also useful for individuals who are accessing training for the first time. The videos can even supplement remote training sessions.

Each video is available with subtitles in English, French, Portuguese, and Spanish. You can access all of the videos [here](#).

In The Spotlight

SDG 14.3.1 Data Portal now online

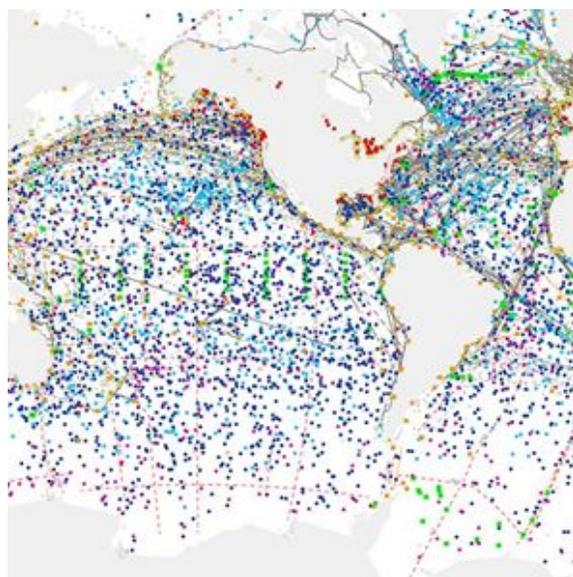
To facilitate the submission, storage and sharing of ocean acidification data submitted towards the Sustainable Development Goal (SDG) 14.3.1 Indicator, [IOC-UNESCO](#) and [IODE](#) have developed an [online data portal for the Indicator](#).

IOC is the custodian agency for the SDG Indicator 14.3.1, which calls for the "Average marine acidity (pH) measured at agreed suite of representative sampling stations" associated to the SDG Target 14.3. Together with GOA-ON and other experts in the field of ocean acidification, IOC has developed the [SDG 14.3.1 Indicator Methodology](#). The Methodology provides the necessary guidance on how to conduct ocean acidification observations, what to measure and how, providing best practice and methods approved by the scientific ocean acidification community. It further offers support on how to and what kind of data sets to submit to IOC, to ensure the production of quality controlled global and possibly regional products. The Methodology, as well as the associated data and metadata templates and the metadata instructions can be found on the [SDG 14.3.1 portal homepage](#), along with instructions on how to upload data to the portal and an [FAQ section](#) with helpful answers.

Ocean Observing System Report Card 2020

The [2020 Ocean Observing System Report Card](#) has been published, providing an update on the status of the [Global Ocean Observing System \(GOOS\)](#), including the impact of the COVID-19 pandemic on ocean observations, the advances in observing measurements and initiatives, and the connection with vital services resulting from the observations.

Motivated by the increasing importance of ocean knowledge for development needs as well as addressing climate-related trends, this issue of the Ocean Observing System Report Card provides an update on the status of the global ocean observing system and its ability to address these international needs. Over 2 million ocean in-situ observations are reported daily from the systems reflected in this report, including such various sources and platforms as profiling Argo floats, autonomous buoys, ship-based observations, repeated transects and satellite-based observations. The Report also introduces the newly endorsed Animal Borne Ocean Sensors (AniBOS).



*OceanOPS data sources as of September 2020:
operational platforms latest location*

Vendée Globe 2020: skippers support ocean observations

From the start of the Vendée Globe race, [10 skippers will carry scientific instruments](#) onboard to support the [Global Ocean Observing System \(GOOS\)](#), within the framework of the [United Nations Decade of Ocean Science for Sustainable Development \(2021-2030\)](#). During the Vendée Globe, 7 meteorological buoys and 3 Argo profiling floats will be deployed by the IMOCA skippers, in under-sampled areas of the ocean. *“Racing yachts allow us to reach remote and not yet well sampled areas of the ocean, filling critical observational gaps, especially during this challenging pandemic period”* says Mathieu Belbéoch, OceanOPS Lead. The instruments deployed during the race will monitor the global ocean and measure physical and biogeochemical parameters, including $p\text{CO}_2$, providing key data for applications such as climate studies, forecasts and early warnings, and marine ecosystems health monitoring.



Boris Herrmann, skipper on Seaexplorer - Yacht Club de Monaco, released an Argo float during the Vendée Globe 2020

Regional Updates

OA Med-Hub:

We are expanding! The hub currently involves more than 50 scientists from 10 Mediterranean countries. Check them out here:

http://www.goa-on.org/regional_hubs/mediterranean/members/members.php

GOA-ON in the 1st MedECC report

Regional observation networks such as the OA Med-Hub can be considered a tool for adaptation. This is what was mentioned in a newly published report by the Mediterranean Experts on Climate and environmental Change (MedECC), entitled "[Climate and Environmental Change in the Mediterranean Basin-Current Situation and Risks for the Future - 1st Mediterranean Assessment Report](#)".

To improve the effectiveness of managed adaptation strategies towards climate change consequences, an interesting approach is proposed in this report: ***the establishment of active regional and local observation networks!*** Such networks that include scientists from different Mediterranean countries/sub-basins create a solid platform for peers to collaborate in monitoring climate change drivers and impacts, enhance data sharing policies and accessibility, and improve capacity-building among the members of their scientific community. Our OA Med-Hub, one of the GOA-ON regional hubs, has been highlighted as a good example in chapter 4 'Ecosystems' of the First Mediterranean Assessment Report (MAR1). Check the multiple risks on marine & coastal ecosystems, highlighted in a chapter co-led by Abed El Rahman Hassoun, [here](#), and you may watch the promotion interview of the report [here](#).

OA Session at ASLO

An ocean acidification session entitled "Ocean acidification: trends and effects from local to regional scales" was submitted by the GOA-ON Mediterranean Hub and has been approved for the ASLO 2021 ASM conference in Palma de Mallorca, Spain. The conference is scheduled for the 22-27 of June, though the timing is dependent on the global COVID-19 situation. For more information on the conference visit [the ASLO website](#).

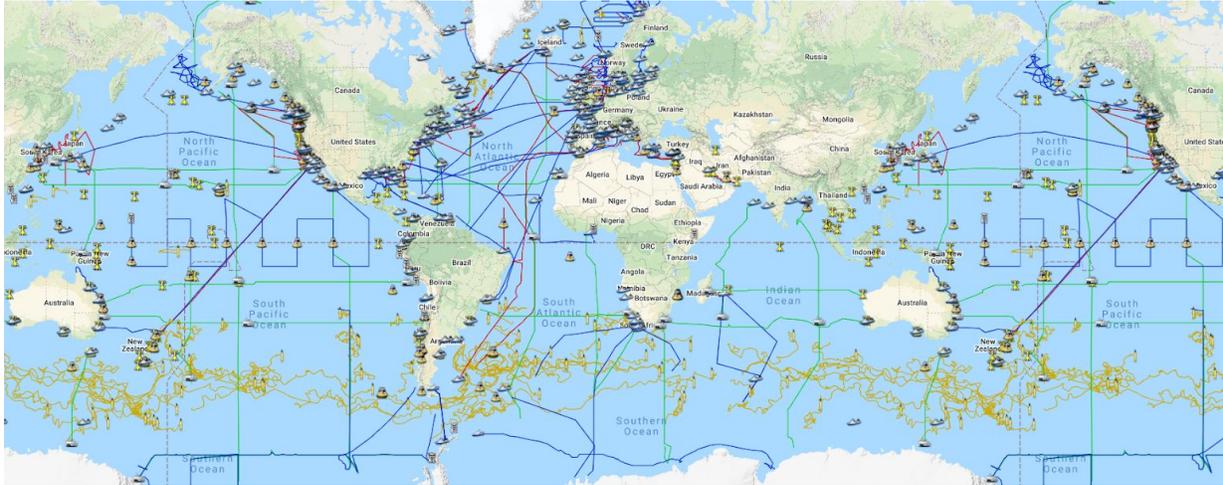
OA proposal for COST

A new proposal has been submitted by OA Med-Hub members to obtain a fund from COST. This project aims to provide networking opportunities for Mediterranean OA researchers which will make the hub more efficient and open new ways of collaborations in the Mediterranean OA research. Fingers crossed!

Stay tuned:

Stay updated about our activities and the latest Mediterranean OA research via social media platforms! Feel free to like us on [Facebook](#) and follow us on [Twitter](#) and [Instagram](#).

Announcements & Reminders



Request for data providers to update GOA-ON Data Portal platforms

The GOA-ON Data Portal includes over 700 assets monitoring ocean acidification parameters throughout the world's oceans. Fifty-seven of these assets have data that are accessible directly on the Portal, and 282 assets have links to externally accessible data. It is important for data providers to update their assets in order for this portal to include accurate metadata and links to data. If your assets need to be updated, or if you would like to add a new platform, please fill out [this short survey](#). For any questions, please contact the GOA-ON Secretariat (secretariat@goa-on.org).



COVID-19 Update: New dates for the 5th International Symposium on the Ocean in a High-CO2 World

The [5th International Symposium on the Ocean in a High CO2 World](#) has officially been rescheduled for **13-16 September 2021**. The deadline for abstract submissions and travel grant applications has also been extended to 15 March 2021. The organisers will continue to monitor the situation with COVID-19 that may require further adjustments to the dates.

Job Announcement

The International Oceanographic Data and Information Exchange ([IODE](#)) and the Ocean Science Section of the Intergovernmental Oceanographic Commission ([IOC](#)) of UNESCO are inviting written proposals for a [Consultant for data platform management and development](#) to update and expand the capacities of their SDG 14.3.1 Data Portal.

OA-ICC receives new funding

The OA-ICC gratefully acknowledges generous support provided from Sweden and the US in 2020. These commitments support all three pillars of the OA-ICC: global capacity building, communication and networking, as well as research and development. The resources will be directed towards technical workshops, scientific conferences, GOA-ON capacity building events, and support for OA research in developing countries.

OA Day of Action

January 8, 2021

[The Ocean Foundation](#) created this event in 2018 to promote OA awareness, advocacy and research. GOA-ON Africa Hub members are proposing a regional event titled, "Ocean Acidification Research in Africa – "the Other CO₂ Problem" to be held in Monrovia which will have both in person and remote ways to participate. To receive more information about OA Day of Action and ways to get involved you can sign up [online](#) and receive a free download of the song "Suspend the Time" by Animal Collective.



Arctic Science Summit Week 2021

The Arctic Science Summit Week, from 20-26 March 2021, will now be an online event: <https://assw2021.pt>

Join the OA Info Exchange (OAIE)

The OA Information Exchange ([OAIE](#)) is a website for the ocean acidification community to share ideas and resources, ask questions, and interact with people in a variety of disciplines

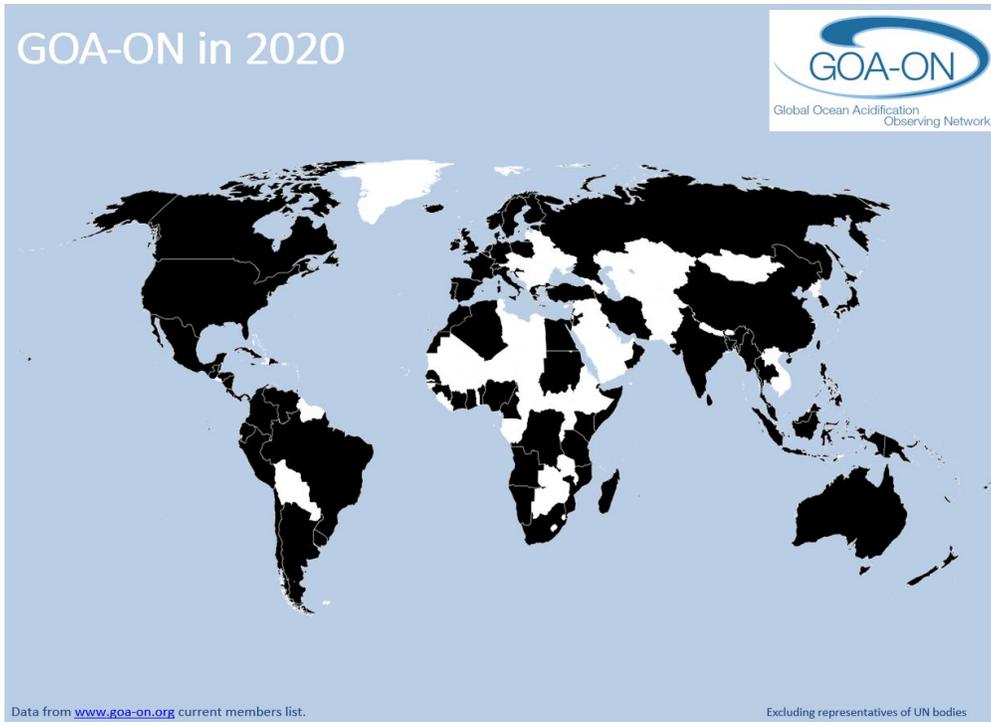


Ocean Acidification Information Exchange

around the world. Scientists, citizen scientists, educators, NGO and government employees, resource managers, concerned citizens, and others are all welcome to take part in the OAIE.

Subscribe to the [OA-ICC news stream](#) for daily posts with new OA publications, media coverage, upcoming events, job postings, and much more.

- Use the [OA-ICC portal](#) for ocean acidification biological response data to access over 1000 data sets.
- Access over 6,300 ocean acidification publications from the [OA-ICC bibliographic database](#).



GOA-ON keeps growing

GOA-ON is a network composed of more than 800 members from 105 countries! We appreciate the interest and look forward to facilitating new and exciting collaborations together. A full list of GOA-ON members is available online on the [GOA-ON website](http://www.goa-on.org). If you wish to change your affiliation as it is presented online, please email the GOA-ON Secretariat (secretariat@goa-on.org).

Are you involved in OA work that you would like to have included in future newsletters? Contact the GOA-ON Secretariat: secretariat@goa-on.org

GOA-ON Secretariat

Michael Acquafredda, NOAA Ocean Acidification Program
Trevor Eakes, IAEA Ocean Acidification International Coordination Centre
Katherina Schoo, Intergovernmental Oceanographic Commission of UNESCO



<https://www.facebook.com/GOAON/>
https://twitter.com/goa_on (@goa_on)
<https://www.youtube.com/channel/UCWZnXpGzQWwWfT3LEMkxXgg>

