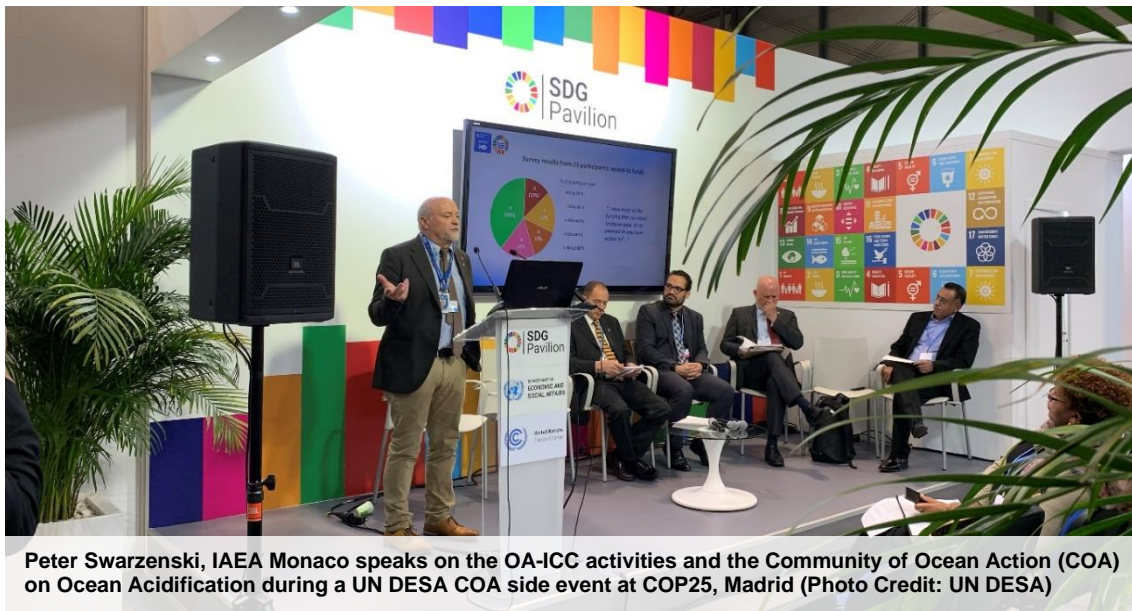




OA-ICC HIGHLIGHTS

The latest news and updates from the OA-ICC and partners



Peter Swarzenski, IAEA Monaco speaks on the OA-ICC activities and the Community of Ocean Action (COA) on Ocean Acidification during a UN DESA COA side event at COP25, Madrid (Photo Credit: UN DESA)

Ocean acidification highlighted at the UNFCCC Blue COP

The UNFCCC COP25, referred to as the “Blue COP”, emphasized the need to protect the ocean and its role in controlling the world’s climate. The OA-ICC and its partners were involved in a series of side events on ocean acidification during COP25, held in Madrid, Spain from 2-13 December 2019. These sessions highlighted regional and global efforts on ocean acidification, including highlighting OA-ICC activities, the Global Ocean Acidification Observing Network ([GOA-ON](#)), the Intergovernmental Panel on Climate Change (IPCC) Special Report on the Ocean and Cryosphere in a Changing Climate ([SROCC](#)), the Community of Ocean Action on Ocean Acidification ([COA on OA](#)), and other initiatives.

The OA-ICC supported three ocean acidification scientists representing [GOA-ON regional hubs](#) to participate in a COP25 side event entitled “Understanding Changing Ocean Conditions and Impacts to Marine Species



Nayrah Shaltout, Egypt, highlighting achievements and challenges of the OA-Africa network at COP25, Madrid (Photo Credit: Peter Swarzenski, IAEA)

and Ecosystems: Global Networks that are Advancing Regional Science, Monitoring, and Response Strategies”, organized by [the International Alliance to Combat Ocean Acidification](#). These

representatives from the South Pacific, Latin America, and Africa presented on success stories and regional challenges in addressing ocean acidification. [#COMMUNICATION](#)

THIS QUARTER:

UNFCCC COP25

GOA-ON IN A BOX
TRAINING COURSE

OA-iRUG WORKSHOP

HIGH-CO₂ SYMPOSIUM CALL
FOR ABSTRACTS

IAEA OA MEETING,
ECUADOR

TARA OCEAN OUTREACH

COLACMAR, ARGENTINA

OA-ICC BY THE NUMBERS,
2019



IAEA hosts hands-on ocean acidification training course in Monaco

Fifteen participants from three different projects of the IAEA Technical Cooperation Programme met during 2-6 December 2019 at the IAEA Environment Laboratories in Monaco to receive training on ocean acidification monitoring. Participants learned how to measure pH and total alkalinity using a set of simplified methodologies developed by The Ocean Foundation (TOF), the OA-ICC and experts in the field in the framework of the Global Ocean Acidification Observing network (GOA-ON), referred to as the “GOA-ON in a Box”. The training aimed to empower participants to start ocean acidification monitoring in their countries, report toward the UN Sustainable Development Goal 14.3.1 on ocean acidification, and, ultimately, to inspire mitigation and adaptation actions. The course included both lectures and practical sessions on carbonate chemistry, sampling design and data quality and assurance, as well as biological impacts, experimental design, and opportunities for international networking and collaboration. #CAPACITYBUILDING



Participants of the IAEA training course learned how to measure total alkalinity using a manual titration method (Photo Credit: Marine Lebec, IAEA)

Addressing ocean acidification in the Western Indian Ocean

The OA-ICC supported the Second Regional Meeting of the Ocean Acidification International Reference User Group (OA-iRUG), held in Zanzibar, Tanzania from 28 to 29 October 2019. The workshop brought together 40 regional scientists, stakeholders, and international ocean acidification experts to identify priorities and challenges facing the Western Indian Ocean, and to produce an action plan that the region could use to address ocean acidification. The workshop was organized by the OA-iRUG and was chaired by the International Union for Conservation of Nature (IUCN), the Western Indian Ocean Marine Science Association (WIOMSA) in collaboration with the OA-ICC, the Prince Albert II of Monaco Foundation (FPA2), and the UN Environment Nairobi Convention. More information about this workshop can be found in the IAEA article [here](#). #SCIENCE



Local and international participants at the OA-iRUG workshop in Tanzania (Photo Credit: WIOMSA)

First call for abstracts: 5th Symposium on the Ocean in a High-CO₂ World

This Symposium, to be held 7 to 10 September 2020 in Lima, Peru, will be the venue for sharing advances in ocean acidification science in the context of other drivers of ocean change. The Symposium will feature keynote talks by some of the leading experts in the field, as well as special events on aquaculture, carbonate chemistry, the Global Ocean Acidification Observing Network (GOA-ON), and the Latin American Ocean Acidification Network (LAOCA). The deadline for abstract submissions is 6 March 2020. The OA-ICC is cooperating in this Symposium and will provide travel support for qualified scientists to present their research. More information, including abstract submissions and travel support details, can be found on the [Symposium website](#). #SCIENCE



Ecuador hosts the final meeting of IAEA Interregional Technical Cooperation project

The IAEA interregional [Technical Cooperation](#) project INT/7/019 “Supporting a Global Ocean Acidification Observing Network – toward increased involvement of developing states” came to an end in December 2019. The project held its final coordination meeting in Guayaquil, Ecuador, from 6-10 October 2019. Twenty-four participants and IAEA representatives discussed progress, needs and opportunities for continued collaboration in the future.

The project used a targeted strategy for ocean acidification capacity building, with different levels of training tailored to participants’ needs. The needs and capacities of each participating institute were first evaluated using a capacity questionnaire. As part of the project, simplified and low-cost methodology to study ocean acidification were developed in partnership with The Ocean Foundation and experts from GOA-ON. Many of the participants are now able to communicate their research to broader audiences and contribute to concrete action to address ocean acidification in their countries. The meeting included a half-day workshop delivered by the International Alliance to Combat Ocean Acidification on how to effectively communicate scientific results to stakeholders, as well as lectures on OA-ICC resources and coordination, research proposal writing and the SDG14.3.1 reporting process.

[#CAPACITYBUILDING](#) [#SCIENCE](#)



The final IAEA INT7019 project meeting participants in Guayaquil, Ecuador

Engaging in outreach with the Tara Ocean Foundation

The OA-ICC staff presented on ocean acidification to over 400 schoolchildren ranging in age from 7 to 18 years old, as part of the [Tara Ocean Foundation](#) autumn 2019 videoconference education series. The OA-ICC gave an overview of what ocean acidification is, and students had the opportunity to interact and ask questions related to the subject. Educational resources for school children related to ocean acidification can be found on the [OA-ICC website](#). [#COMMUNICATION](#)



OA-ICC participation at Latin American Congress on Marine Sciences, Argentina

The OA-ICC supported twelve scientists from seven countries to participate in the Latin American Congress of Marine Science (XVIII COLACMAR), held in Mar del Plata, Argentina, 4-8 November 2019. During the conference, Argentinian researcher Betina Lomovasky presented on the recently-launched [IAEA Coordinated Research Project](#) (CRP) aimed at studying the impacts of ocean acidification on socio-economically important seafood around the world. The COLACMAR is one of the largest oceanographic meetings in South America, and therefore served as an important venue for raising awareness on ocean acidification and the new IAEA CRP. [#SCIENCE](#) [#COMMUNICATION](#)



Participants of the 2019 Latin American Congress of Marine Science (Photo Credit: Betina Lomovasky, Universidad Nacional de Mar Del Plata)

OA-ICC by the numbers in 2019

- **OA-ICC News Stream** – 1,171 posts published, and 35,292 visitors representing 180 countries
- **OA-ICC website** – 7,100 views from over 3,000 representing 64 countries
- **OA-ICC bibliographic database** – 603 publications were added in 2019; the database now includes a total of 6,116 references
- **OA-ICC capacity building** – the OA-ICC supported 50 scientists from 36 countries (through training courses and support to attend international workshops)



Happy New Year from the OA-ICC team!

From left to right: David Osborn, Marine Lebrec, Lina Hansson, Peter Swarzenski, Hasti Dessa, Yan Yang

NEXT ISSUE

- *Ocean acidification capacity building workshop, Kolkata, India, 25-29 January 2020*
- *Fifth webinar of the Community of Ocean Action on Ocean Acidification, February 2020*
- *Third Regional Meeting of the Ocean Acidification International Reference User Group (OA-iRUG), Monaco, March 2020*

OA-ICC online resources:

- **OA-ICC news stream** - recent publications, media coverage, meeting announcements, jobs etc.
- **OA-ICC website** – Information about activities and resources for different audiences / languages
- **OA-ICC bibliographic database** - over 5,900 references with citations, abstracts and keywords.
- **OA-ICC portal for OA biological response data** – access to over 1,000 data sets along with references.

The IAEA OA-ICC promotes global collaboration and activities to advance ocean acidification science, capacity building, and communication

Contact the OA-ICC: oaicc@iaea.org

OA-ICC project office: Marine Lebrec, Hasti Dessa and Peter Swarzenski