Ocean Acidification International Coordination Centre

OA-ICC

OA-ICC HIGHLIGHTS

July - September 2017

Promoting global cooperation in a changing ocean world



SCIENCE



Photo credit: F. Oberhaensli/IAEA

OA-ICC's As part of intercomparison activities, pilot а studv lookina methods to at assess calcification in marine initiated organisms was over the past few months at the IAEA laboratories in Monaco. Designed by researchers from the IAEA, Villefranche the Oceanography Laboratory in France, the Scientific Centre of Monaco, the

Centro de Estudios Ambientales de Cienfuegos in Cuba, and Xiamen University in China, the study measured rates of calcification in the tropical coral *Stylophora pistillata* using four different techniques: the alkalinity anomaly method, the calcium anomaly method, the Ca-45 incorporation technique and the C-13 incorporation technique. Preliminary results indicate good agreement between methods, and the exercise may be extended to include other coral species; other methods, and pelagic systems in collaboration with other institutes.

Another key effort of the OA-ICC is to ensure the archival and quality control of data on the biological response to ocean acidification, and to promote easy access to the data for all users. To this end, a portal to improve the search experience of data sets included in the OA-ICC Data Compilation, maintained in cooperation with Xiamen University and hosted at Pangaea, is in development. Building on community input that was received during the 2016 Ocean in a High-CO₂ World Symposium in Hobart, Australia, where a demonstration of the draft portal was shown, a set of keywords was established in collaboration with experts in the field. The keywords were designed to ensure that users would be able to search and extract the datasets they are interested in, ultimately facilitating data comparison and synthesis. The data portal is expected to be ready in the fall of 2018.

COMMUNICATION

New IAEA Brief:

Nuclear and isotopic techniques help assess ocean acidification and climate change impacts

IAEA briefs are often used in high-level communication with Member States to highlight important work of the Agency.

CAPACITY BUILDING

The OA-ICC facilitated the participation of three scientists from Lebanon, Peru and Tanzania to present their work on ocean acidification and to connect with peers at the 10th International



Kathy Cordova, Peru, was one of the OA-ICC supported participants, and one of seven proud recipients of the Conference «Outstanding poster» award. Photo credit: B. Fernandez. Carbon Dioxide Conference (ICDC10) in Interlaken, Switzerland, 21-25 August 2017. The conference, organized by the Oeschger Centre for Climate Change Research (OCCR) in collaboration with other leading Swiss institutions, brought together 520 participants and is the main global meeting for integrated carbon cycle research, organized once every four years. It is a key venue for scientists to present and discuss what is needed to implement the UN Paris Agreement and to prepare the next assessment report of the Intergovernmental Panel on Climate Change (IPCC).

5th OA-ICC Advisory Board Meeting

The Fifth OA-ICC Advisory Board meeting took place at the IAEA Environment Laboratories in Monaco on 28 September 2017 and brought together some of the leading scientists working on ocean acidification around the world. The group was tasked to provide technical advice and recommendations for future OA-ICC activities to ensure that these activities are properly aligned with Member States' needs and reflect recent advances and developments in the field.



Photo credit: S. Jones-Couture/IAEA

OA-ICC

ONLINE

RESOURCES

• <u>OA-ICC data compilation</u> on the biological response to ocean acidification - access to experimental data from 850 scientific papers

OA-ICC bibliographic database - over 4,500 references with citations, abstracts and keywords

Interested in knowing more about the OA-ICC online resources? Have a look at this <u>video presentation</u> !
<u>OA-ICC news stream</u> - recent publications, media coverage, meeting announcements, jobs etc.

OA-ICC web site - resources on ocean acidification listed according to audience and language