



*Atoms for Peace and Development*

الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

## IAEA Marine Environment Laboratories

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The Secretariat of the International Atomic Energy Agency (IAEA) presents its compliments to the IAEA's Member States and has the honour to draw their attention to the **Technical Meeting on Ocean Acidification Meta-Analyses Using the Ocean Acidification International Coordination Centre Bibliographic Database and Other Data Resources** (hereinafter referred to as "event") to be held virtually via Microsoft Teams from **13 to 17 February 2023**.

The purpose of the event is to use the Ocean Acidification International Coordination Centre databases to work on several meta-analysis projects and train the participants in the use of these resources.

The attached Information Sheet provides further details of the event.

The event will be held in English.

Member States are invited to designate one participant for this event. Member States are strongly encouraged to identify women participants.

Designations should be submitted to the IAEA through the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) not later than **12 January 2023** using the attached Participation Form (Form A). Completed and authorized Participation Forms should be sent either by email to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) or by fax to: +43 1 26007 (no hard copies needed). Copies should be sent by email to the Scientific Secretary of the event, Ms Sarah Flickinger, IAEA Marine Environment Laboratories, Department of Nuclear Sciences and Applications (Email: [S.Flickinger@iaea.org](mailto:S.Flickinger@iaea.org)), and to the Administrative Secretary, Ms Carolina Galdino (Email: [C.Galdino@iaea.org](mailto:C.Galdino@iaea.org)). The Scientific Secretary of the event will liaise with the participants directly concerning further arrangements, as appropriate, once the official designations have been received.

The IAEA takes no responsibility for, and the provider of the virtual meeting services has represented and warranted that the Services shall not contain, and that no end user shall receive from the software used to hold the virtual meeting, any virus, worm, trap door, back door, timer, clock, counter or other limiting routine, instruction or design, or other malicious, illicit or similar unrequested code, including surveillance software or routines which may, or is designed to, permit access by any person, or on its own, to erase, or otherwise harm or modify any data or any system, server, facility or other infrastructure of any end user (collectively, a "Disabling Code").

The Secretariat of the International Atomic Energy Agency avails itself of this opportunity to renew to the IAEA's Member States the assurances of its highest consideration.



2022-12-01

Enclosures:       Information Sheet  
                          Participation Form (Form A)



**IAEA**

International Atomic Energy Agency

*Atoms for Peace and Development*

**Technical Meeting on Ocean Acidification  
Meta-Analyses Using the Ocean Acidification  
International Coordination Centre Bibliographic  
Database and Other Data Resources**

**Virtual participation via Microsoft Teams**

**13 – 17 February 2023**

**Ref. No.: EVT1904960**

**Information Sheet**

## Introduction

Ocean acidification is a direct consequence of the release of anthropogenic CO<sub>2</sub> into the atmosphere. It has been a major area of work of the IAEA through the Ocean Acidification International Coordination Centre (OA-ICC). Over the years, the OA-ICC has developed key resources for the ocean acidification community including a bibliographic database and a data compilation which facilitates data comparison and meta-analyses. The use of these resources is increasingly important to synthesize the present knowledge, test new hypotheses and identify new research directions. Moreover, it provides a unique opportunity to create new knowledge for research teams in developing countries with limited access to field and laboratories. The purpose of the event is to promote the use of the OA-ICC databases through (i) teaching of the basics of synthesis and meta-analysis methodologies; (ii) identification of key questions that can be answered through synthesis and meta-analysis using the OA-ICC resources; and (iii) work on individual meta-analysis projects. Participants will be given some support beyond the training to develop their own meta-analysis projects.

## Objectives

The Ocean Acidification International Coordination Centre (OA-ICC) promotes data access and sharing within the ocean acidification research community. The OA-ICC provides access to two online databases:

- A bibliographic database which currently includes more than 9,800 references with custom OA-ICC keywords and is shared using Zotero and pCloud.
- A data compilation which facilitates data comparison and meta-analyses. To easily filter and access relevant biological response data from this compilation, a user-friendly portal was developed.

During this workshop, participants will learn:

- (i) Basics of the different synthesis and meta-analysis methodologies (narrative, semi-quantitative, quantitative) through lectures and critical evaluation of existing published material.
- (ii) How to navigate the OA-ICC databases and how to use these resources to test new hypotheses.
- (iii) Identify and develop their own questions and identify collaborators within the course.

The training will continue after the course through a mentoring program. Each participant will have the opportunity to work with an expert on their individual project with the goal to publish meta-analysis articles relevant for their region.

## Target Audience

The course is open to 10 trainees. Priority will be given to early-career scientists with experience in ocean acidification and marine biology. At least one publication in the field of ocean acidification is required. Participants should have an interest in data analyses and syntheses as well as some time to invest into a meta-analysis project beyond the course.

## Working Language(s)

English

## Expected Outputs

Increased capacity to perform meta-analyses and increased networking among scientists working on ocean acidification. Initiate/deepen connections with international networks such as the Global Ocean Acidification Observing Network (GOA-ON; [www.goa-on.org](http://www.goa-on.org)). Participants will also work on personal projects, developing strategies for their own research and a data-based projects using data resources from the OA-ICC.

## Structure

The training will include lectures and guest lectures and assignments in smaller groups (the level will depend on the basic knowledge of the selected participants). Subjects to be covered include:

- Best-practices in ocean acidification research and monitoring
- State-of-the-art in the field of ocean acidification and other global drivers
- Theory on different types of meta-analyses and synthesis
- Data extraction from OA-ICC databases, and other sources
- Standardization and data analysis
- Scientific writing

## Participation and Registration

All persons wishing to participate in the event have to be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State, participants are requested to send the **Participation Form (Form A)** to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent

Mission to the IAEA or National Atomic Energy Authority) for onward transmission to the IAEA by **12 January 2023**. Participants who are members of an organization invited to attend are requested to send the **Participation Form (Form A)** through their organization to the IAEA by the above deadline.

Selected participants will be informed in due course on the procedures to be followed with regard to administrative and financial matters.

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA's mandate.

## Venue

The event will be held virtually.

## Additional Information

Only those participants who have been designated by the relevant authorities of an IAEA Member State and have been selected by the IAEA will be informed by **23 January 2023**.

Participants should ensure continuous access to a stable internet connection for the duration of the course.

## Additional Requirements

The participants should have a university degree in marine chemistry, biology, oceanography or a related scientific field, and should be currently involved in or planning to study multiple stressors.

Selection will be based on merit and interest. Your applications should include:

- \* A motivation letter with a short description of your research interest, why you would like to participate, and your plans regarding present and future ocean acidification research (max one A4 page)

- \* CV with publication list

## **IAEA Contacts**

### **Scientific Secretary:**

#### **Ms Sarah Flickinger**

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### **Administrative Secretary:**

#### **Ms Carolina Galdino**

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary and correspondence on other matters related to the event to the Administrative Secretary.





# Participation Form

## Technical Meeting on Ocean Acidification Meta-Analyses Using the Ocean Acidification International Coordination Centre Bibliographic Database and Other Data Resources

IAEA Marine Environment Laboratories, Monaco

13 – 17 February 2023

To be completed by the participant and sent to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA) either by email to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary [[S.Flickinger@iaea.org](mailto:S.Flickinger@iaea.org)] and to the Administrative Secretary [[C.Galdino@iaea.org](mailto:C.Galdino@iaea.org)].

**Deadline for receipt by IAEA through official channels: 12 January 2023**

Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms
Institution:		
Full address:		
Tel. (Fax):		
Email:		
Nationality:	Representing following Member State/non-Member State/entity or invited organization:	
If/as applicable: Do you intend to submit a paper?                      Yes <input type="checkbox"/> No <input type="checkbox"/> Would you prefer to present your paper as a poster?      Yes <input type="checkbox"/> No <input type="checkbox"/> Title: I plan to attend virtually:                                      Yes <input type="checkbox"/> No <input type="checkbox"/>		

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary

purposes are consistent with the IAEA's mandate. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.