



Workshop on Ocean Change and Blue Carbon

IAEA Marine Environment Laboratories, Monaco

28 August–8 September 2023

Ref. No.: EVT2205459

Information Sheet

Introduction

The **Workshop on Ocean Change and Blue Carbon** will provide participants with the foundations to carry out research on the capacity of coastal vegetated ecosystems (i.e. mangroves, seagrasses and saltmarshes) to sequester carbon.

Objectives

Coastal vegetated ecosystems such as mangrove forests, seagrass meadows and tidal marshes sequester large amounts of carbon in their sediment and are identified as both i) key players in the carbon cycle and ii) potentially important as a nature-based solution to climate change (Blue Carbon). This is an addition to the many other relevant ecosystem services they provide, such as nutrient cycling, support of fisheries and biodiversity and coastal protection.

During the last decade there has been an increasing growth of studies devoted to assessing the stocks and burial rates of carbon in this kind of habitats worldwide. Also, and in parallel, there has been plenty of initiatives related to their inclusion in Nationally Determined Contributions. However, the evaluation

of the contribution of these ecosystems to climate mitigation and adaptation is not as easy as it would seem, due to the existence of several questions yet to be resolved. For instance, and to mention a few, the lack of data for many parts of the world; the need to assess processes such as lateral exchange and gas exchange; or the role of carbonates formation and dissolution.

The aim of this course is to train early-career scientists interested on working on Blue Carbon with the key concepts involved when planning a research study, including designing and conducting the field work, preparation of the samples, carrying out the required analyses, and interpreting and scaling up the results. This will be accompanied by critical reflections on the challenges and open questions to promote discussion and advances on the subject.

Target Audience

The course is open to 10 trainees. Priority will be given to early-career scientists with experience in marine sciences. Scientific publications in related fields will be valued.

Working Language(s)

English

Expected Outputs

Gain capacity, conduct research and/or work on Blue Carbon and engage with a network of institutions and colleagues worldwide. To support/assistance of the organizers to work on personal projects initiated during the course may be possible.

Structure

The training will include plenary and guest lectures as well as field work and hands-on experiments. Subjects to be covered include theoretical aspects of blue carbon research, how to identify relevant scientific questions, best practices for sampling in the field, analyses including nuclear and isotopic techniques to determine carbon stocks and sequestration rates, and data interpretation.

Participation and Registration

All persons wishing to participate in the event must 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 **26 June 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 regards 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.

Expenditures and Grants

No registration fee is charged to participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the event.

The application for financial support should be made using the **Grant Application Form (Form C)**, which has to be stamped, signed and submitted by the competent national authority to the IAEA together with the **Participation Form (Form A)** by **26 June 2023**.

Venue

The event will be held at the IAEA Marine Environment Laboratories in Monaco.

Participants must make their own travel and accommodation arrangements. The closest airport is Nice, France.

Visas

Participants who require a visa to enter France should submit the necessary application as soon as possible to the nearest diplomatic or consular representative of France.

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 **12 July 2023**.

The course is funded through the IAEA and co-sponsored by the Prince Albert II of Monaco Foundation.

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 blue carbon.

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 blue carbon research (max one A4 page)
- * CV with publication list

IAEA Contacts

Scientific Secretary:

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Administrative Secretary:

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Fax: +377 97 97 72 73

Email: C.Galdino@iaea.org

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

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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 or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary O.Anghelici@iaea.org and to the Administrative Secretary C.Galdino@iaea.org.

Deadline for receipt by IAEA through official channels: 26 June 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"/>				

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Grant Application Form

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Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms:
Mailing address:	Tel.:	
	Fax:	
	Email:	
Date of birth (yy/mm/dd):	Nationality:	
I plan to attend virtually:	Yes <input type="checkbox"/> No <input type="checkbox"/>	

1. Education (post-secondary):

Name and place of institution	Field of study	Diploma or Degree	Years attended from to	

2. Recent employment record (starting with your present post):

Name and place of employer/ organization	Title of your position	Type of work	Years worked from to	

3. Description of work performed over the last three years:

4. Institute's/Member State's programme in field of event:

Date: **Signature of applicant:** _____

Date: **Name, signature and stamp of Ministry of Foreign Affairs, Permanent Mission
to the IAEA or National Atomic Energy Authority** _____