Decade Coordination Office for Ocean Data Sharing (DCO-ODS) & IODE

1st Webinar

Ocean Data: overview of training needs, legacy, and new opportunities
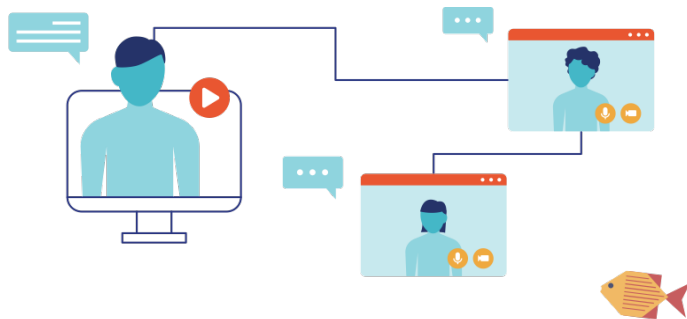
Ana Carolina Mazzuco
IODE Training Coordinator – OTGA Project Coordinator
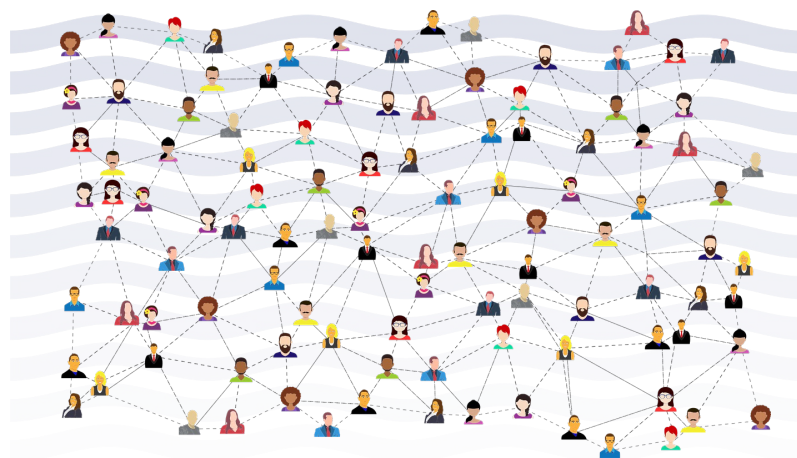UNESCO/IOC Project Office for IODE

DEVELOPMENT OF EXPERTISE & HUMAN CAPACITY

Ana Carolina Mazzuco
IODE Training Coordinator – OTGA Project Coordinator
UNESCO/IOC Project Office for IODE

To enable best practices in ocean data management globally, there is an enormous historical and geographical gap in expertise and human capacity to overcome

IOC CD assessment of gaps and needs
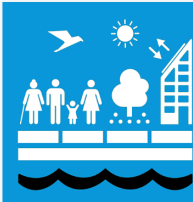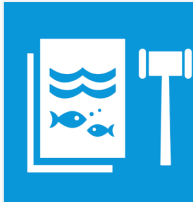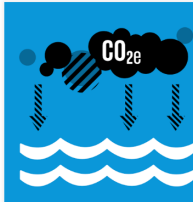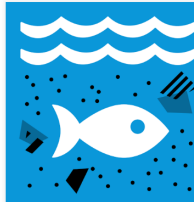
TRAINING
- in technology, instrumentation, and maintenance of data management networks
- on how to use data and information
- ocean observing (various topics)

OCEAN DATA EXPERTS AND DIGITAL LITERATE PROFESSIONALS

1 Develop an ocean digital ecosystem that encourages the sharing and equitable access of multidisciplinary data, information and knowledge by all.

2 Improve data and information discovery and usability across the ocean digital ecosystem.

3 Build trust in data and information shared across the ocean digital ecosystem.

4 Prioritise digital solutions that support decisions for sustainable ocean management.

5 Expand, empower, and mobilise global communities to advance and maintain the ocean digital ecosystem.

TRAINING LEGACY

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*Build **equitable capacity** related to ocean **research, observations**, and **services** in all IOC Member States by delivering **training courses** on a range of topics addressing the **priority areas** of the UN Decade of Ocean Science for Sustainable Development and the 2030 Agenda and its SDGs as well as supporting the implementation of the IOC Capacity Development Strategy.*

TRAINING COURSES
Face-to-face, online, blended

- ocean data <u>management</u>
- <u>quality</u> management for data centres
- <u>access</u> and <u>share</u> datasets
- <u>discovery and use</u> of operational data products and services
- data <u>analysis</u> and <u>visualization</u> tools
- techniques for data <u>acquisition</u>
- science-police interface

Scientific Knowledge and Research
Course topics include Research data management, OBIS, HAB

Sustainable Use of Marine Resources
Course topics include Marine Biodiversity Data Management

Marine Spatial Planning
Course topics include Marine spatial planning, GIS applications for ICZM.

Marine and Coastal Ecosystems
Course topics include Marine GIS applications, Coastal mapping & monitoring.

Disaster Risk Reduction
Course topics include Tsunami awareness, Storm surge forecasting.

Implement and Enforce International Sea Law
Course topics include Marine Scientific Research under the UNCLOS.

Ocean Acidification
Course topics include Impacts of ocean acidification.

Marine Pollution
Course topics include Prevention and reduction of marine pollution.

Network of Regional and Specialized Training Centres (RTC/STC) and other international partners

unesco
Intergovernmental Oceanographic Commission

IODE
International Oceanographic Data and Information Exchange

Flanders
State of the Art

ISO 29993 CERTIFIED

TRAINING OPPORTUNITIES

OceanTeacher Global Academy

https://oceanteacher.org/

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ONLINE SELF-PACED

COURSES

Open for registration early 2024

Ocean Data Management

Data Analysis with Python Programming for Early Career Ocean Professionals (ECOPs)

Implementing the Ocean Data and Information System (ODIS) architecture

Contributing and publishing datasets to OBIS

Contributing datasets to EMODnet Biology

Marine Data Management, Governance, and the MEDIN toolset

and many more announced

NEW opportunities to come!!