

Ocean Data & Information System

AOMI Database Workshop
Enhancing Ocean Microplastics Monitoring

Online 8th October 2024

Lotta Fyrberg
IOC/IODE



The Ocean Data & Information System (ODIS)

ODIS is a federation of systems that uses common conventions to share and exchange their (meta)data. ODIS is a global initiative supported by the UNESCO/IOC to:

- Improve access to marine and coastal data and information;
- Provide an **openly accessible online platform** to **network** stakeholders and **facilitate the exchange** of Ocean data and knowledge;
- Develop and implement principles fully based on **co-design**.



unesco

Intergovernmental
Oceanographic
Commission



Ocean InfoHub

Ocean InfoHub



ODIS



ODIS objectives



- Harness the proliferation and diversity of **Ocean data, online data systems and other digital resources**;
- Connect **global and local digital systems and infrastructures** using Web architecture;
- Support IOC member states and institutions;
- **Raise awareness of global data and information resources** among local users;
- Overcome **challenges of trust through socio-technical innovation** in some regions and communities.



... to shared goals

- **Develop interoperability between existing information systems**, improving the flow of information to end users;
- **Improve discoverability and access to marine and coastal data**, particularly to inform sustainable management and informed policy development;
- **Facilitate equitable access to ocean information and knowledge products**;
- **Promote a closer interaction** across regions and themes to support decision making;
- **Connect independent digital initiatives** to form a diverse, but interoperable and inclusive, **Ocean Data and Information System**.



A partner network



- Composed of **nodes**, through which data providers and partners can communicate, discover and share data, and connect;
- With **infinite potential**: gains richness and efficiency with growing number of nodes.
- Currently link **50 databases from 42 partner organizations**, who openly contribute discoverable content



African Coastal and Marine Atlas catalogue (ACMA)
IOC Africa Data Portal
AquaDocs
Argovis ARGO Collection
Better Biomolecular Ocean Practices (BeBOP) as part of Ocean Biomolecular Observing Network (OBON)
Benguela Current Convention (BCC)
GeoData Portal
Belgian Marine Data Centre (BMDC)
British Oceanographic Data Centre (BODC)
Caribbean Marine Atlas catalogue
CLIVAR and Carbon Hydrographic Data Office (CCHDO)
Canary Current Large Marine Ecosystem (CCLME)

Canadian Integrated Ocean Observing System (CIOOS)
European Directory of Marine Environmental Research Projects (EDMERP) SeaDataNet
European Directory of Marine Organisations (EDMO) SeaDataNet
European Marine Observation and Data Network (EMODnet)
EurOcean Organizations
EurOcean Projects
EurOcean Vessels
Global Biodiversity Information Facility (GBIF)
Indian National Centre for Ocean Information Services (INCOIS)
Latin America and the Caribbean Region (LAC) Documents
Latin America and the Caribbean Region (LAC) Experts

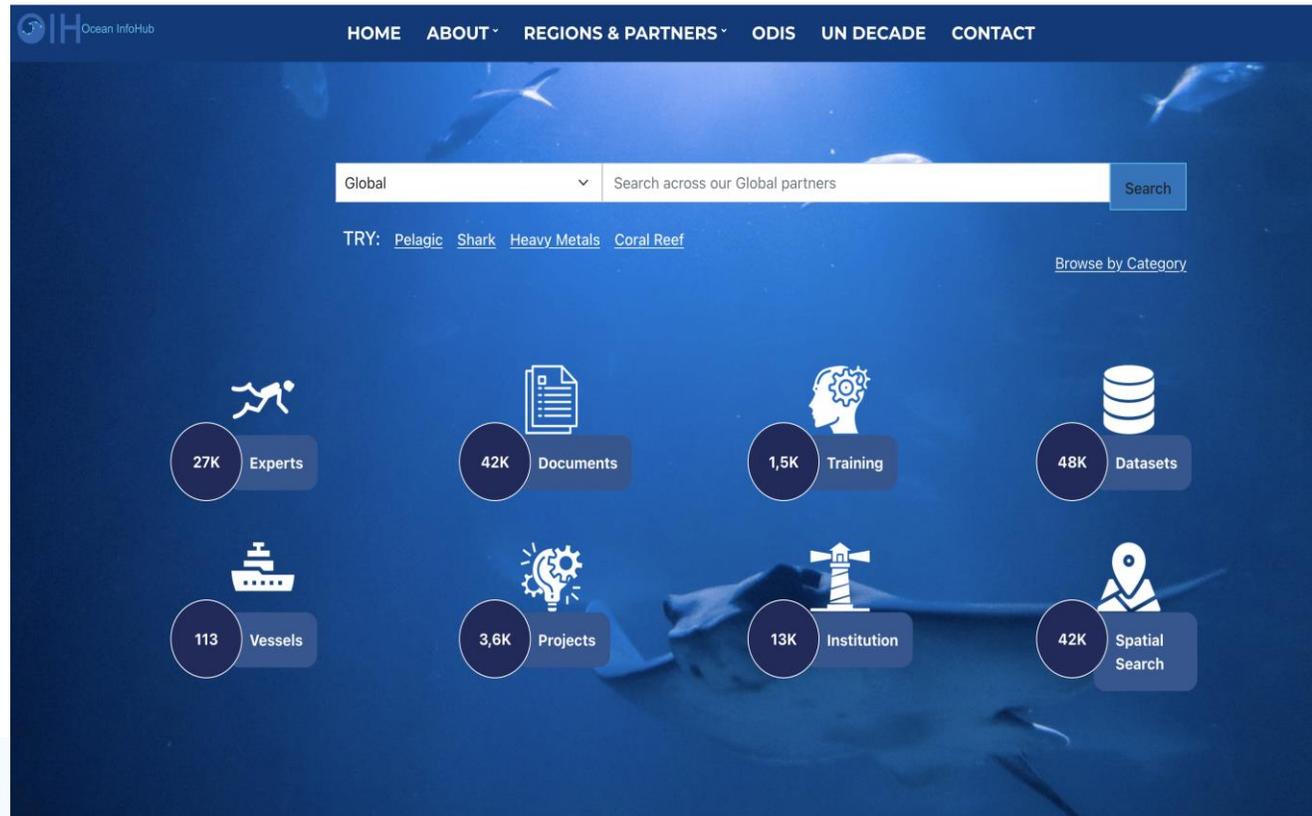
Latin America and the Caribbean Region (LAC) Geospatial
Latin America and the Caribbean Region (LAC) Institutions
Latin America and the Caribbean Region (LAC) Training
Latin America and the Caribbean Region (LAC) Vessels
MARine COastal BiODiversity Long-term Observations (MARCO-BOLO)
Marine Institute Data Catalogue (Ireland)
Marine Training EU
Marine Spatial Atlas for the Western Indian Ocean (MASPAWIO)
Marine Environmental Data and Information Network (MEDIN)
Research Coordination Network for Marine Ecological Time Series (METS-RCN)
Marine Information Management System (MIMS)
NCEI Marine Microplastics Catalogue

National Marine Data and Information Service (NMDIS)
Ocean Biodiversity Information System (OBIS)
Ocean Best Practices System (OBPS)
OceanExpert UNESCO/IOC Project Office for IODE
Oceanscape Project
ODIS Catalogue (ODISCat)
Aquatic Sciences and Fisheries Abstracts (OpenASFA)
Observing System Monitoring Center (OSMC)
Pacific Data Hub (PDH)
Pacific Environment Data Portal (PEDP)
Rolling Deck to Repository (R2R)
Research Data Australia (RDA)
UNEP Data Catalogue
WIO (Western Indian Ocean) Symphony
World Ocean Database (WOD)
Leibniz Center for Tropical Marine Research (ZMT)

Global Search portal



A Global Search portal has been developed as a demonstration of ODIS (<https://oceaninfohub.org>). The portal currently contains over 130,000 content items in seven content categories: (i) Experts (27,000); (ii) Institutions (13,000); (iii) Documents (42,000); (iv) Training (1,500); (v) Vessels (113); (vi) Projects (3,600); and (vii) Datasets (48,000).



Benefits of linking to ODIS

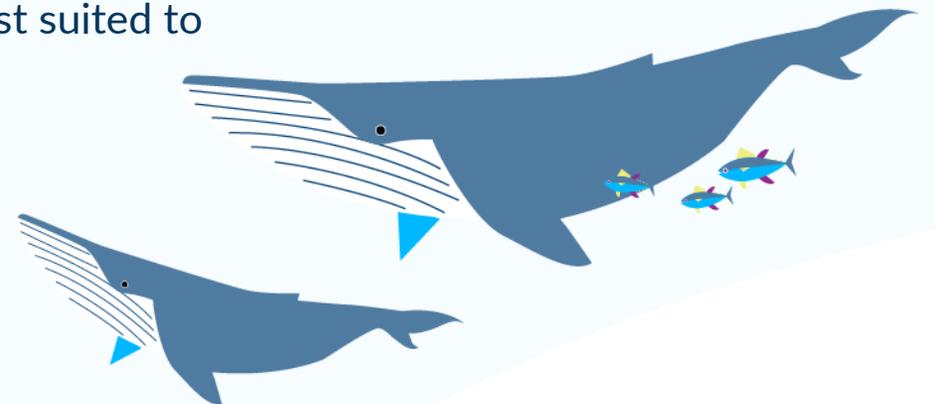


For data providers

- Share (meta) data only once;
- Retain ownership and control;
- Change visibility of your data as you choose;
- Increase visibility of your data and information to the world.

For data users

- Find data and information more easily from numerous sources;
- Easily see which are trusted sources (IODE accreditation);
- Access the same data set through the portal or resource best suited to you.



Contributes to international frameworks

