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OBIS Capacity Development Initiatives in light of the OBIS-GBIF Strategy

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Canada *United States of
America*



Capacity Development in OBIS

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Data systems are only as strong as
the **capacity of the people**
contributing to them



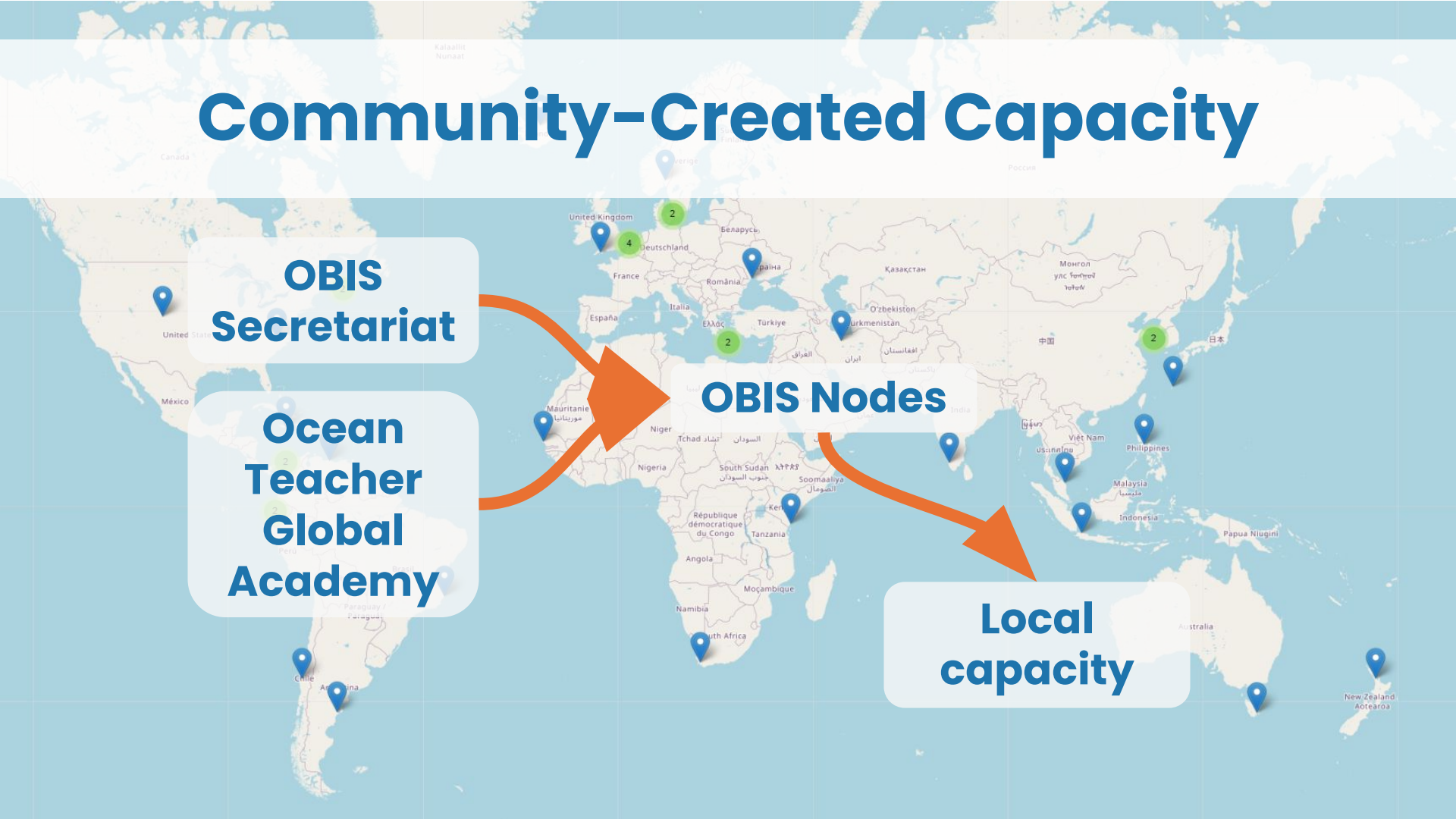
Community-Created Capacity

**OBIS
Secretariat**

**Ocean
Teacher
Global
Academy**

OBIS Nodes

**Local
capacity**



OBIS Partnerships in Capacity Development



GBIF



OceanTeacher Global Academy

MBON

Marine Biodiversity
Observation Network











**Ocean best
practices**



Ocean Teacher Global Academy



OceanTeacher Global Academy

 <p>OBIS2026EN</p> <p>Contributing and publishing datasets to OBIS (self-paced) copy 1</p> <p>14a Scientific Knowledge And Research, 14.7 Sustainable Use Of Marine Resources</p> <p>Belgium Training Center</p> <p>English</p>	 <p>OBIS-CMAR2025</p> <p>Entrenamiento en gestión de datos de biodiversidad para incrementar el conocimiento en áreas profundas del...</p> <p>14.7 Sustainable Use Of Marine Resources, 14a Scientific Knowledge And Research</p> <p>Colombia Training Center</p> <p>Spanish</p>	 <p>EMODnet</p> <p>SP-EMODnetBiology</p> <p>Contributing datasets to EMODnet Biology</p> <p>14.7 Sustainable Use Of Marine Resources, 14a Scientific Knowledge And Research</p> <p>Belgium Training Center</p> <p>English</p>	 <p>SP-OBIS2024ES</p> <p>Fundamentos para la publicación de datos de biodiversidad marina en OBIS</p> <p>14.7 Sustainable Use Of Marine Resources, 14a Scientific Knowledge And Research</p> <p>Colombia Training Center</p> <p>Spanish</p>
 <p>IB-MBONP2P2024</p> <p>2nd Taller de la Red de Monitoreo de Biodiversidad Marina Polo a Polo de las Américas: implementación d...</p> <p>14a Scientific Knowledge And Research</p> <p>Belgium Training Center</p> <p>Spanish</p>	 <p>OBIS2023EN</p> <p>Contributing and publishing datasets to OBIS (self-paced)</p> <p>14.7 Sustainable Use Of Marine Resources, 14a Scientific Knowledge And Research</p> <p>Belgium Training Center</p> <p>English</p>	 <p>SP-PacMAN eDNA 2023</p> <p>PacMAN eDNA: Marine Invasive Species Early Detection: Utilising Molecular Tools_2023 (self-paced)</p> <p>14.2 Marine And Coastal Ecosystems, 14.7 Sustainable Use Of Marine Resources</p> <p>Belgium Training Center</p> <p>English</p>	 <p>MAY 2022</p> <p>AlgaeTraits: a trait database for (European) seaweeds</p> <p>14.7 Sustainable Use Of Marine Resources, 14a Scientific Knowledge And Research</p> <p>Belgium Training Center</p> <p>English</p>
 <p>GGBN_2022</p> <p>Data management and publication through the Global Genome Biodiversity Network (GGBN)</p>	 <p>PacMAN eDNA 2022</p> <p>Marine Invasive Species Early Detection: Utilising Molecular Tools</p> <p>14.2 Marine And Coastal Ecosystems</p>	 <p>WORMS Editors_2022</p> <p>World Register of Marine Species (for editors)</p> <p>14.7 Sustainable Use Of Marine Resources, 14a Scientific Knowledge And Research</p>	 <p>INVEIMAR_OBIS2021</p> <p>Publicación y gestión de datos de biodiversidad marina (The Ocean Biodiversity Information System - OBIS)</p>

Certified
courses through
Regional
Training Centres

Each OBIS
node must have
certified staff



OBIS Training Resources

Manuals
&
Courses

Tools

Vocabulary

OBIS Manual

- Comprehensive guidelines
- DwC Term checklist
- Example datasets

How-To Videos

- 18 videos on data formatting and publishing
- 7 translated into Spanish



OTGA Courses

- OBIS certification course
- Data management, eDNA
- Spanish courses

Workshops

- Community organized with Secretariat support
 - E.g. MBDM workshop, DOOS, MBON, AIR Centre



OBIS Training Resources

Manuals
&
Courses

Tools

Vocabulary

Coding & QC Tools

- R & Python packages
- Data QC Tools
- OBIS notebooks
 - Parquet data exports, speciesgrids, environmental
- Community-created code examples
 - E.g. IOOS BioData Guide



Georeference tools

- Map and geometry string tools
- Shiny app coordinate converters

Metadata

- GOOS BioEco Portal
- EOY Metadata Application

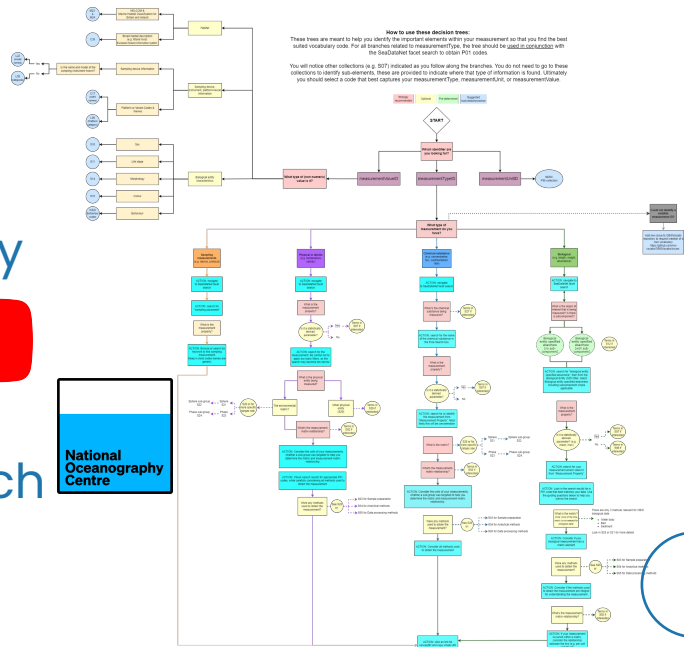
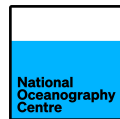
Manuals
&
Courses

Tools

Vocabulary

Controlled vocabulary

- OBIS Vocabulary Team
 - Includes GBIF members
- Tools for finding vocabulary in measurement data
 - OBIS decision tree
 - How-To YouTube series
 - SeaDataNet Facet Search

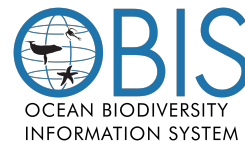


OBIS & GBIF Strategy

Areas of Collaboration

**Technical
Cooperation**

**Community and
Capacity**



OBIS & GBIF Strategy

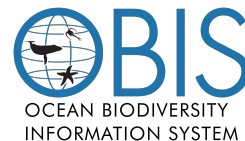
Areas of Collaboration

Actions

- Joint data mobilization and data calls
- Enable coordination mechanisms
- Develop clear messaging around the partnership
- **Develop joint training resources**

Technical
Cooperation

Community and
Capacity

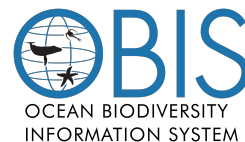


OBIS & GBIF Strategy

Areas of Collaboration

Technical
Cooperation

Community and
Capacity



Develop joint training resources

- Encourage data mobilization to/from OBIS
- GBIF technical support data hour
- Joint training for new Darwin Core Data Package

**Marine data
has unique
considerations**

Future Directions

Strengthen OBIS-GBIF collaboration

- Joint training & resources
- Co-develop shared training
- curriculums
- Integrations with OTGA
-

Pursue shared fundraising

Explore joint community engagement roles

Summary

Capacity development is
collaboration



The OBIS Team

helpdesk@obis.org



unesco

Intergovernmental
Oceanographic
Commission



**Ward
Appeltans**

Programme
manager



**Pieter
Provoost**

Data
Manager



**Silas C.
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**Saara
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**Laurent
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**Steve
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Data
Officer

With the support
of



**Sofie de
Baenst**



**Kristin de
Lichtevelde**