



Supporting global reporting on marine and coastal biodiversity for the post-2020 global biodiversity framework

OVERVIEW



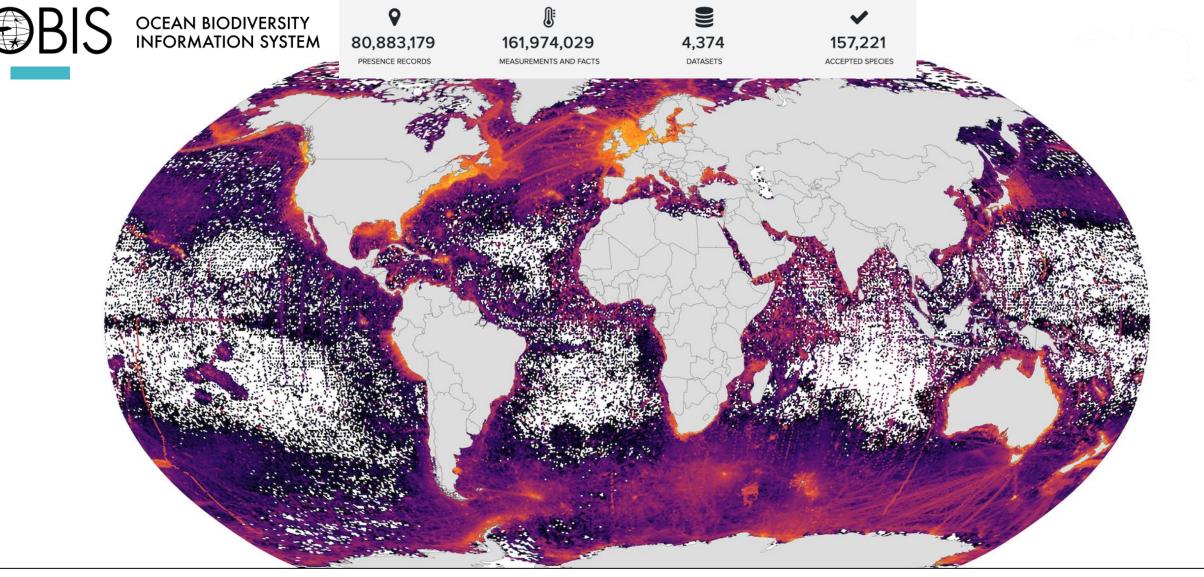


IOC-UNESCO

- i. Ocean Biodiversity Information System (OBIS)
- ii. Global Ocean Observing System (GOOS)/biological Essential Ocean Variables (EOVs)
- iii. Global Ocean Science Report (GOSR)

UN Decade for Ocean Science – Ocean Decade

- Introduction to the Ocean Decade
- ii. Links to Ocean Decade Monitoring & Evaluation (OD M&E) framework
- iii. Examples of endorsed Decade Programmes addressing biodiversity

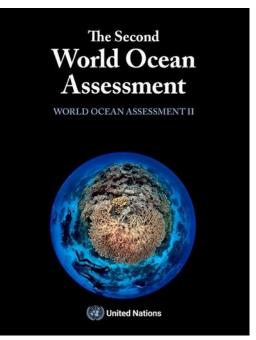


OBIS is a global open-access data and information clearing-house on ocean biodiversity for science, conservation and sustainable development (IOC-XXX/7.2.1)



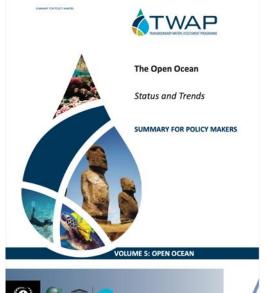
OBIS already supports several Global & Regional Ocean Assessments







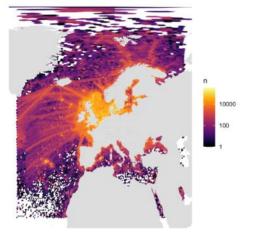


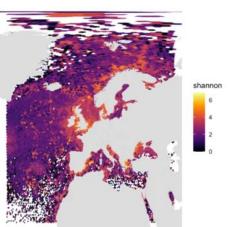


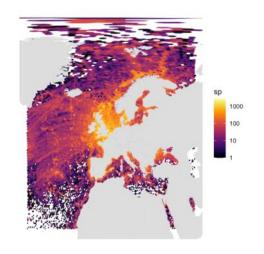


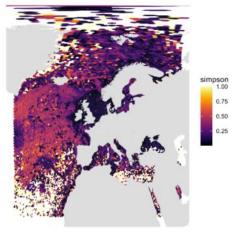
Ecologically or Biologically Significant Areas (EBSAs):

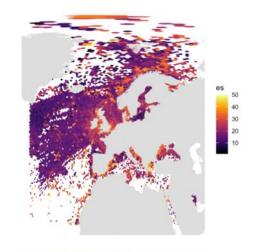


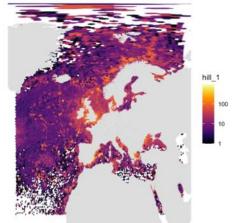












OBIS has been supporting all the regional EBSA workshops by providing a number of data and information products (biodiversity indices).

The scritps (R code) to generate these maps are publicly available through our GitHub repository

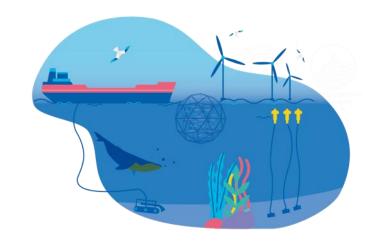
R code to calculate biodiversity indices and other metrics in support of the CBD EBSA process



https://github.com/iobis/ebsa









's flip the narrative that places blame on victims and lower of language in service of survivors, not perpeti End violence against women now! Respond, Innovate & leave no one behind to 'Orange

BAF and **USP** partner to strengthen detection of marine invasive species

TIMOCI VULA | 17 November, 2021, 7:30 am











Fiji's capability in detecting high-risk marine invasive alien species (MIAS) will be significantly strengthened following an operational arrangement between the University of the South Pacific's Institute of Applied Science (IAS) and the Biosecurity Authority of Fiji



Pacman.obis.org

Bioinvasions Alert Network





eDNA expeditions in Marine World Heritage sites

World Heritage Convention

binnenland

In een paar liters water zit een hele zee

NATUUR Door een nieuwe op DNA gebaseerde techniek moeten biologen niet langer op beschermde soorten vissen om te weten wat er waar leeft. Dat zal de Unesco helpen om marien werelderfgoed zoals het Great Barrier Reef beter te beschermen.







weten selle vie en andere
om die marine belofferwirteit ist menselijke activisit verboden is.

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UNESCO 'eDNA' initiative to 'unlock' knowledge for biodiversity protection



18 October 2021 | Climate and Environme





Usarán ADN ambiental para entender cambio climático en áreas marinas



Hay especies marinas muy vulnerables, que podrían desaparecer incluso con pequeños cambios de temperatura Crédito de la imagen: Alex Mustard / Ocean Image Bank



https://ednaexpeditions.org

GOOS Biology & Ecosystems Monitoring Facility





GOOS BioEco monitoring programs		Under development	Open GeoNode
Select variables			+
Phytoplankton	Zooplankton		- Carlotte Carlotte
Fish	Turtles		•
Birds	Mammals		
Hard coral	Seagrass		W- 2 1
Macroalgae	Mangrove		A STATE OF THE STA
Microbes	Invertebrates		
Select all Deselect all			
Readiness levels			
Requirements	‡		
Coordination	•)		
Data	*]		
579 monitoring progra			
Ocean Observatories Initiative			
Skomer Marine Nature Reserve.Marine Conservation Zone			
The Gulf of Riga littoral biodiversity			
Infrastructure de Recherch (Wimereux)	he Littorale et Côtière (ILICO): SOMLIT		
Projeto Toninhas; Projeto Tartarugas Marinhas; Projeto Aves; Projeto de Monitoramento de Praias da Bacia de Santos			
		© Mapbox Improve this map © Natural Ea	arth Data © Mapbox © OpenStreetMap Improve this map

GOSR — offers a global record of how, where and by whom ocean science is conducted



 Provides information for SDG indicator for target 14.a as the proportion of total research budget allocated to research in the field of ocean science

 GOSR2020 extends the 2017 report to include: contribution of science to sustainable development, blue patent applications, extended gender analysis, and capacity development in ocean science

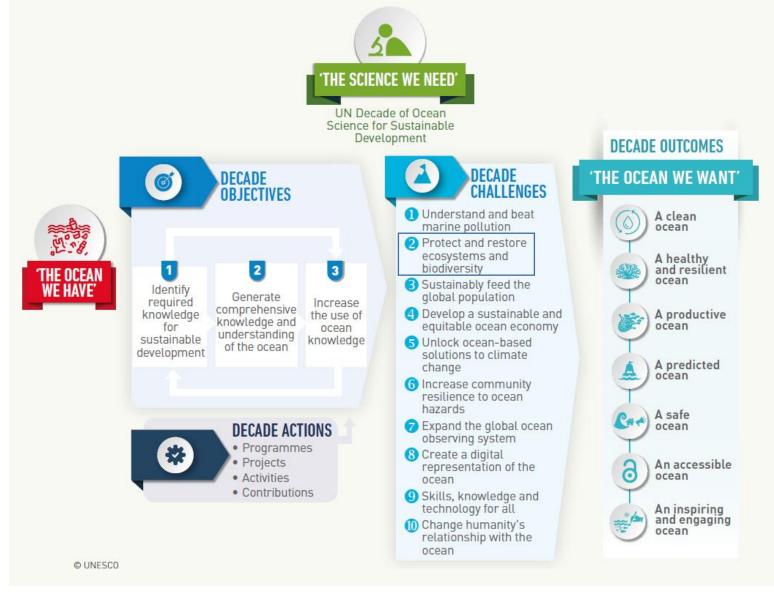
Charting Capacity for Ocean Sustainability



Next GOSR is due to be published in 2025

Ocean Decade





Call for Decade Actions No. 01/2020: 20 Programmes, 35 Projects, 7 Contributions on ODC 2

Call for Decade Actions No. 02/2020: Focus on ODC 2 (1 and 5)

Conceptual Framework for Monitoring & Evaluation



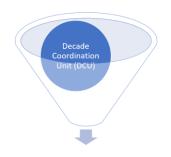


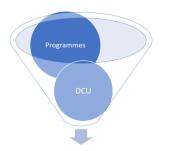


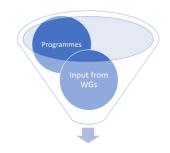
Educational, Scientific and · Oceanographic Cultural Organization . Commission

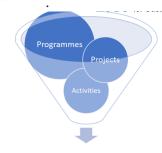
2030 for Sustainable Development

Approved by the **Advisory Board in** Q2 2021









Enabling Environment Level M&E

Capacity Development

Indicators drawn from Global Ocean Science Report framework where possible, to show system/behaviour change

Engagement and Outreach

Indicators for Stakeholder participation measured via Global Stakeholder Forum; Communications impact & reach (from Comms Advisory Group)

Resource Mobilisation

Indicators for financial and in-kind support (beyond Business as Usual) and linked to GOSR framework & resource mobilisation strategy



- · Identify relevant frameworks and indicators
- Will not directly attribute **Decade contributions**
- Decade analysis to develop a narrative on correlations between trends in these indicators and Decade implementation

Decade Outcomes

- 7 global headline indicators i.e. one for each outcome.
- Based on existing indicators and methods.
- · Supported and fed by ocean basin specific indicators
- Measurement via information from Decade Actions and peer reviewed publications / grey literature

Decade Challenges

- Indicators measured at the Decade programme level:
 - 5 x knowledge indicators - (i) generation and (ii) uptake
 - 3 x infrastructure indicators - (i) sustainability and (ii) 'fit for purpose'
- Knowledge gaps: incorporating Indigenous knowledge and how to measure attribution

Decade Actions – Output Level Indicators

Operational/ process indicators linked directly to Decade implementation mechanisms

Operational Level M&E

Impact Level M&E





Regular Decade reporting and review processes



Calls for Decade Actions resource mobilisation



Example relevant endorsed Decade Programmes







Cultural Organization . Commission



Marine Life 2030

A Global Integrated Marine Biodiversity Information Management and **Forecasting System for Sustainable Development** and Conservation

Marine Biodiversity Observation Network (MBON)

Establish the globally coordinated system to deliver actionable, transdisciplinary knowledge of ocean life to those who need it ...



CoastPredict

Observing and Predicting the Global Coastal Ocean

Alma Mater Studiorum, University of Bologna | University of Miami/RSMAS | **SOCIB and CSIC-IMEDEA**

Create a digital representation of the Ocean, Expand the Global Ocean Observing System, Increase community resilience to ocean hazards



SMARTNET

Sustainability of Marine Ecosystems through global knowledge networks

International Council for the **Exploration of the Sea (ICES), The North Pacific Marine Science Organization (PICES)**

Establish a global knowledge network (GKN) for ocean science by strengthening and expanding the collaboration of ICES/PICES and partner organizations

Example relevant endorsed Decade Programmes







Cultural Organization . Commission



OARS

Ocean Acidification Research for Sustainability

Global Ocean Acidification Observing Network (GOA-ON)

OARS will foster the development of the science of ocean acidification including the impacts on marine life and sustainability of marine ecosystems in estuarinecoastal-open ocean environments

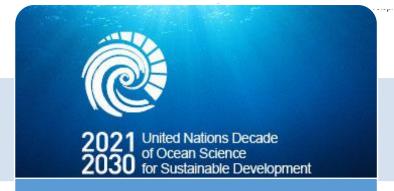


JETZON

Joint Exploration of the Twilight Zone Ocean Network

National Oceanography Centre, UK

Focuses on the ocean region spanning 200m to 1000m depth. This contains the largest and least exploited fish stocks of the world's oceans



For more information visit: www.oceandecade.org/ decade-actions/

Possible suggestions for collaboration with the CBD

- OBIS to contribute to CBD's Global Biodiversity Outlook
- OBIS to support national reporting (headline indicators and NBSAPs) reduce reporting burden
- OBIS to inform countries of what information is available, and guidance on how they can use
 it (fit for purpose, limitations), also in the context of EBSA management
- OBIS to collaborate with countries to develop science capacity in monitoring biodiversity and awareness raising (cfr PacMAN, eDNA projects in World Heritage)
- OBIS to participate in the ad-hoc technical group on biodiversity indicators, including indicators on ecosystem health and with a stronger focus on integrating biodiversity data with data on pressures
- GOSR could provide data relevant to proposed targets. E.g. Targets 18 and 19
 - Target 18. By 2030, redirect, repurpose, reform or eliminate incentives harmful for biodiversity, including [X] reduction in the most harmful subsidies, ensuring that incentives, including public and private economic and regulatory incentives, are either positive or neutral for biodiversity.
 - Target 19. Increase financial resources from all sources to at least 200 billion per year, including new, additional and effective financial resources
- Links between CBD marine indicators and the Ocean Decade M&E framework
- Specific Decade Programmes to generate data to populate CBD marine indicators



Intergovernmental Oceanographic Commission

Thank you for your attention

oceandecade@unesco.org

