



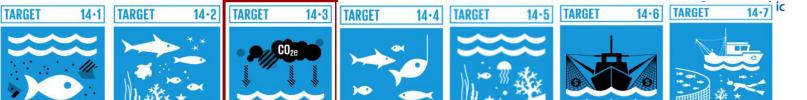


UPDATE ON IOC CUSTODIANSHIP ROLE IN RELATION TO SDG 14 INDICATORS, 2023

IOC/A-32/4.11.Doc(1)

IOC custodianship on SDG 14 indicators:

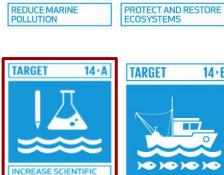




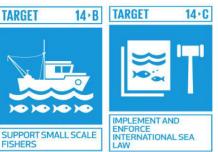
CONTRIBUTING TO

Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development.





DCEAN HEALTH



REDUCE OCEAN

ACIDIFICATION

Custodian Agency for SDG indicators for targets:

- 14.3 Minimize and address the impacts of ocean acidification, incl. through enhanced scientific cooperation at all levels.
- 14.a Increase scientific knowledge, develop research capacity and transfer marine technology, taking into account the Intergovernmental Oceanographic Commission Criteria and Guidelines on the Transfer of Marine Technology...

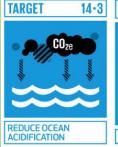
IOC custodianship on SDG 14 indicators:



Intergovernmental

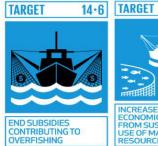








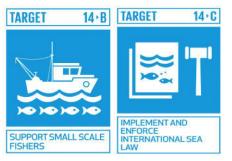




Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development.







Co-Custodian Agency for SDG indicators for targets:

14.1 By 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution.

14.2 By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans

From SDG 14 to indicator 14.3



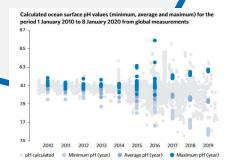
Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development.



Target 14.3 Minimize and address the impacts of ocean acidification, incl. through enhanced scientific cooperation at all levels.

14.3

REDUCE OCEAN ACIDIFICATION Indicator 14.3.1 Average marine acidity (pH) measured at agreed suite of representative sampling stations.

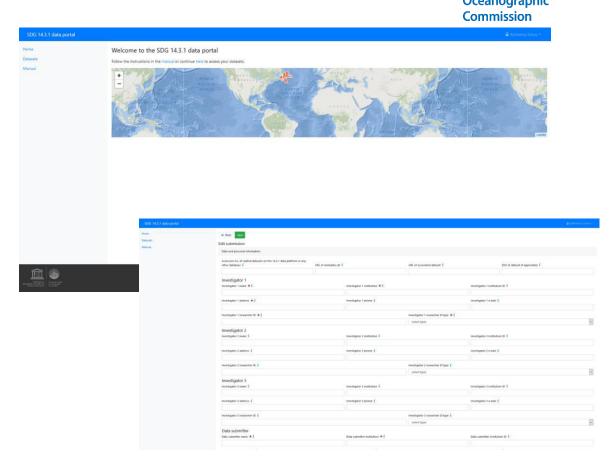


Current 14.3.1 portal http://oa.iode.org



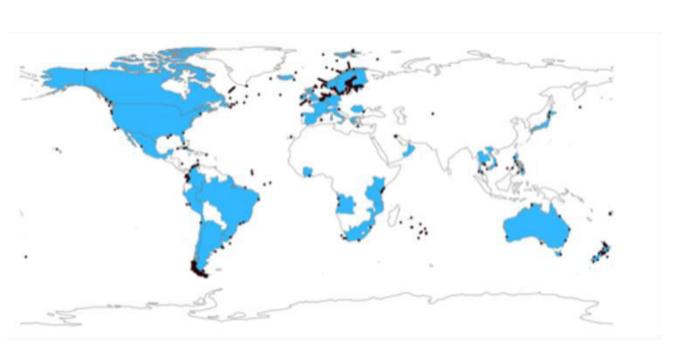
Currently the portal fulfils basic functions related to the collection of data towards the SDG 14.3.1 Indicator. Users can:

- 1. upload data and metadata files in excel format directly to the portal;
- 2. fill in the metadata information online;
- include several data sets per metadata file (e.g. for repeated measurements);
- 4. check data automatically to ensure the files were uploaded/prepared correctly;
- 5. verify the localization data on a map.
- 6. search for data sets submitted and download;
- 7. see available data sets on the map,
- 8. find more information on a dedicated FAQ webpage.

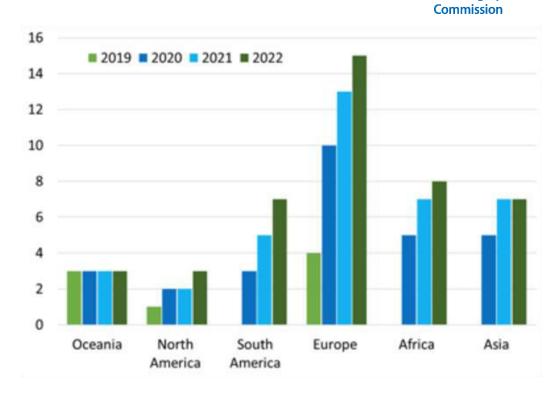


SDG 14.3.1 reporting – GOOD news





539 stations from 41 countries reported in 2023



2022 – **41** countries submitted data and information



- i. Set up a federated data integration/ingestion system using DAP (preferably ERDDAP) services for datassion relevant to the SDG 14.3.1 Indicator. The main outcome would be to establish ways to harvest data and metadata from different NODCs, and international data bases to obtain information relevant for the 14.3.1 SDG indicator involving relevant NODCs, NOAA, SOCAT, EMODNET, GLODAP among others, to agree on the metadata and data as well as with IODE's Ocean Data and Information System (ODIS) and IODE Ocean InfoHub
- i. Develop visualization tools embedded in the federated system, according to the SDG 14.3.1 methodology, to include maps showing the origin of the datasets received, organised by data quality; maps depicting trends for long-term datasets (>5 years).
- i. Improve the ingestion of relevant data provided by individual scientists, research organizations, as well as other data centres and data platforms to the SDG 14.3.1 Data Portal, and ensure interoperability of relevant data; The 14.3.1 data portal will be part of the federated system; however, to ensure the compatibility and that it in turn feeds into the other relevant databases some further work is required, such as enabling the uploading of different formats in addition to the excel.
- Moving from the indicator to the target, identifying the impacts of ocean acidification and providing the respective best practices and standard operating procedures

From SDG 14 to indicator 14.a.1



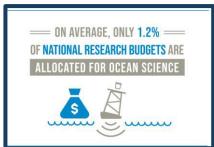
Oceanographic Commission



SDG 14 Conserve and sustainably use the oceans, seas and marine resources for sustainable development

Target 14.a Increase scientific knowledge, develop research capacity and transfer marine technology,





Indicator 14.a.1

Proportion of total research budget allocated to research in the field of marine technology

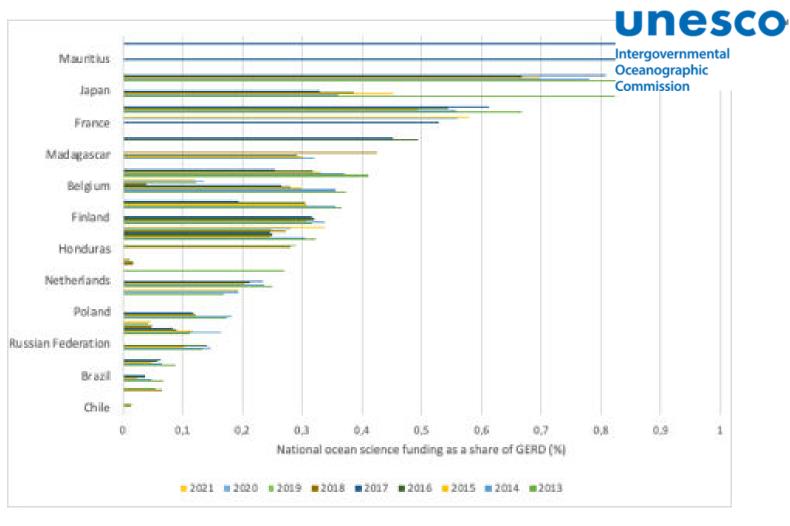
GOSR2020 Investments



There are large differences in countries' investment in ocean research.

On average, around 1.1% of total GERD was attributed to ocean science between 2013 to 2021 (1.2% for 2013-2017; 1.0% for 2018-2021), with shares ranging from around 0.01% to 9.5%.

SDG indicator 14.a.1 reported in 2023.



GOSR ROADMAP





Intermediate report based on the short GOSR tracker questionnaire ocusing on human and technical resources as well as SDG 14.a.1 and ocean science investment more general together with CD survey, to be published end 2023



Next full GOSR publication in 2024/2025, preparation to start in 2023



Update of GOSR portal with new data

From SDG 14 to indicator 14.1.1a

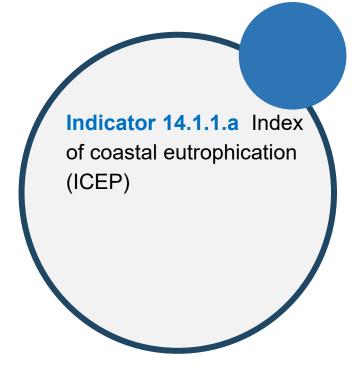




SDG 14 Conserve and sustainably use the oceans, seas and marine resources for sustainable development

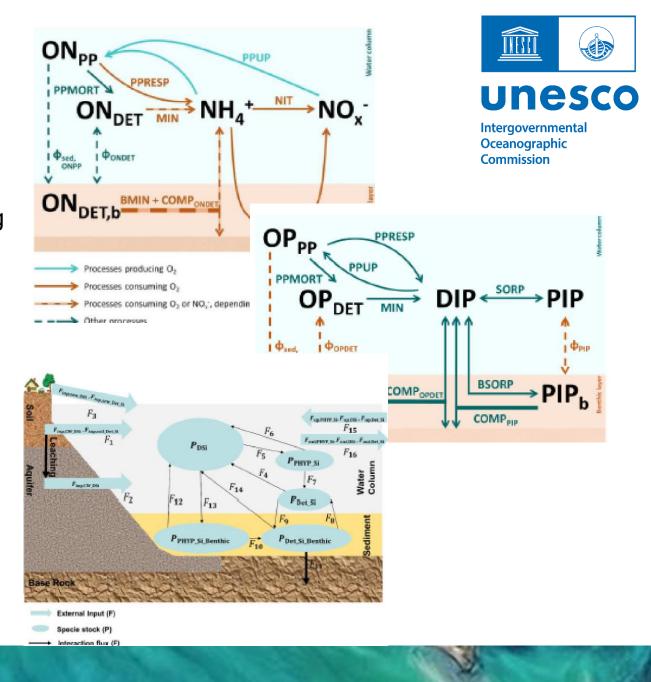
Target 14.1. By 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution (a).

TARGET 14.



14.1.1a status

- ICEP modelling tool under development incl. testing and validation by University of Utrecht and Washington State University
- A global model for the total nitrogen, total phosphorus and dissolved silica delivered at the mouth of the river basin. The model will allow the calculation of the Index of Coastal Eutrophication (ICEP).
- 1. In cooperation with and co-funded by UNEP
- 1. Work to be completed 2024.



From SDG 14 to indicator 14.2.1





SDG 14 Conserve and sustainably use the oceans, seas and marine resources for sustainable development

Target 14.2 By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, ...

TARGET 14.2

PROTECT AND RESTORE

Indicator 14.2.1

Number of countries using ecosystem-based approaches to managing marine areas

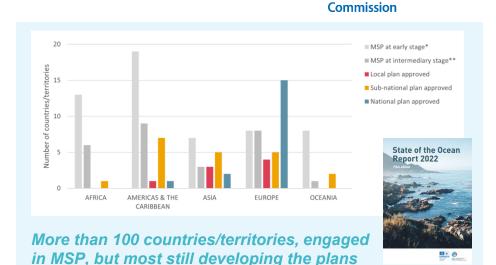
14.2.1 indicators & methodologies

unesco

Intergovernmental Oceanographic

- Primary (UNEP): Regional Seas Coordinated Indicator 22 'Integrated Coastal Zone Management' (ICZM)
- Complementary: implementation status of <u>Marine Spatial Planning</u>
 (MSP) or other area-based, integrated planning and management
- IOC-UNESCO work on monitoring national implementation of MSP:
 - Surveys with its Member States (last in 2022)
 - Country profiles on MSPglobal website
 - Typology based on 10 criteria to assess whether there are commonalities, differences and/or trends regarding approved marine spatial plans (developed and first tested for pilot State of the Ocean Report; to be broadly implemented in 2023*)
 - Web tool to track the number of countries and proportion of maritime areas under national jurisdictions covered by approved marine spatial plans (to be developed in 2023*)

(*) As part of MSPglobal 2.0 project, co-funded by the European Commission







THANK YOU