

Intergovernmental Oceanographic Commission

6.2. SDG 14 indicators

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The global call to collect ocean

acidification data – a collaborative effort







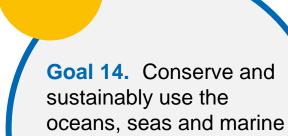








Intergovernmental Oceanographic Commission



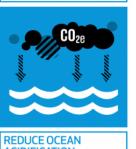
development.

resources for sustainable



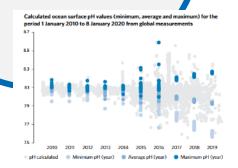
Target 14.3 Minimize and address the impacts of ocean acidification, incl. through enhanced scientific cooperation at all levels. TARGET

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



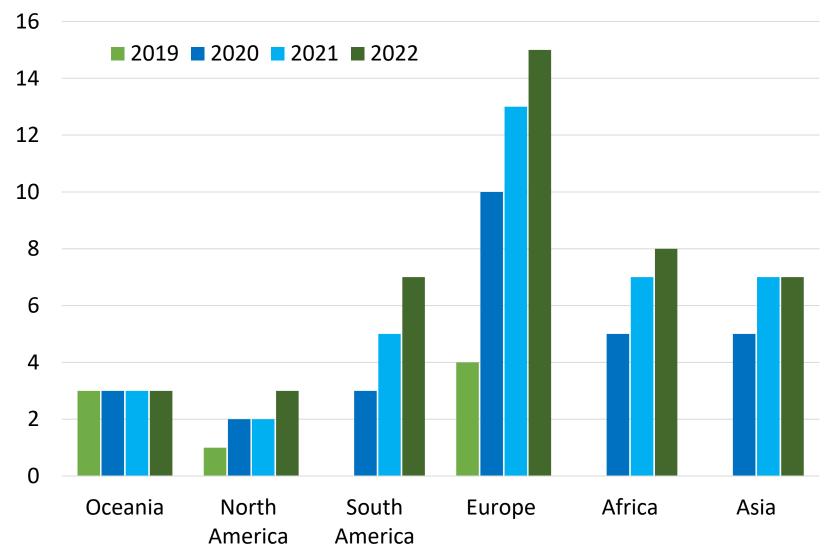
14.3

ACIDIFICATION



SDG 14.3.1 Reporting – GOOD news



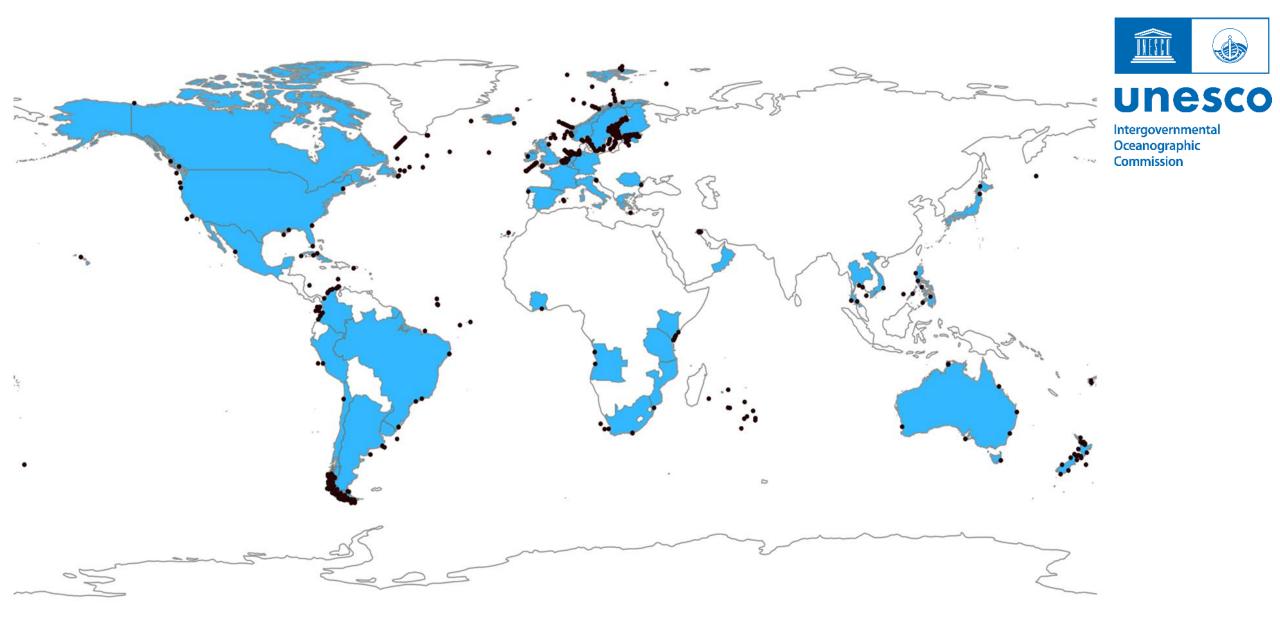


– **8** countries submitted data and information

– **28** countries submitted data and information

– **37** countries submitted data and information

– **41** countries submitted data and information



539 stations in 41 countries reported data in 2022

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,



ON AVERAGE, ONLY 1.2% —
OF NATIONAL RESEARCH BUDGETS ARE
ALLOCATED FOR OCEAN SCIENCE

Indicator 14.a.1 Proportion of total
research budget
allocated to research in
the field of marine
technology

Contributions to the GOSR2020

The Global Ocean Science Report 2020 literally a global endeavour:



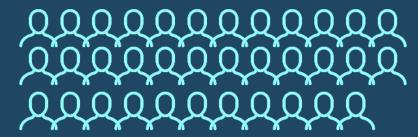
Figure ES.1. Global map indicating the Member States that responded to the GOSR2020 questionnaire (dark blue); countries where data from the GOSR2017 are used in the GOSR2020 assessments are shown in light blue. *Sources*: GOSR2017 and GOSR2020 questionnaires.

45 Member States answered the GOSR2020 questionnaire, and many more are presented in bibliometric, technometric and gender specific analyses.





Editorial Board: 12 (5 female, 7 male) members from 12 countries



Authors: 35 authors – experts from all 5 IOC electoral groups



Review: 19 internal and external reviewers, incl. UN, academia, governmental representatives...

Plus many more who made this possible....

GOSR2020 Investments

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

On average, only 1.7% of national research budgets are allocated for ocean science, with percentages ranging from around 0.03% to 11.8%. This is a small proportion compared to the modestly estimated US\$1.5 trillion contribution of the ocean to the global economy in 2010.

SDG indicator 14.a.1

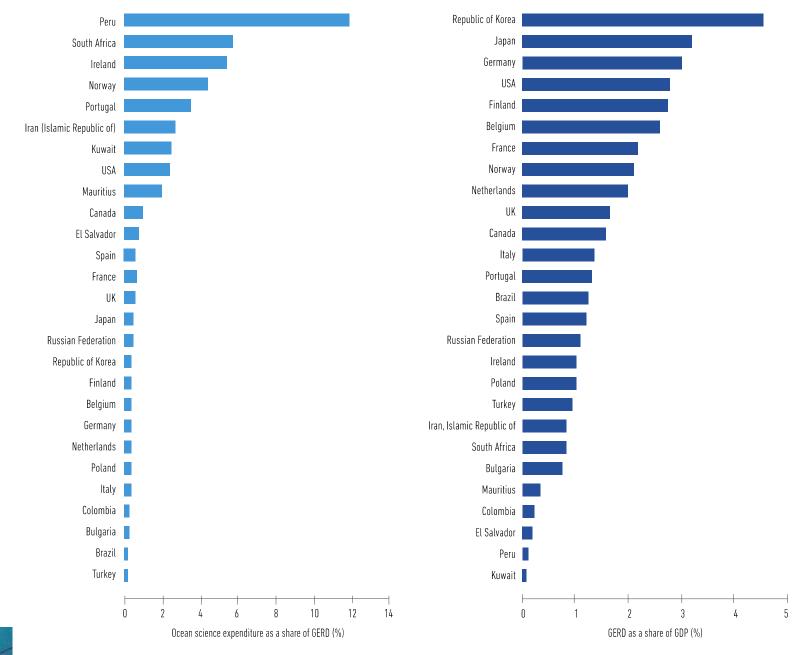


Figure ES.19. Estimates of ocean science funding as a share of GERD and GERD as a share of GDP in 2017. *Sources:* Data adapted from GOSR2020 questionnaire and UNESCO Institute for Statistics database. Note that ocean science funding is not identified as such in GERD data and can be found in natural sciences and other categories.

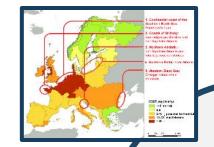
Joint efforts to stop ocean pollution





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..., including marine debris and nutrient pollution.



Indicator 14.1.1 - (a)
Index of coastal
eutrophication



Indicator of coastal eutrophication potential (ICEP)

unesco

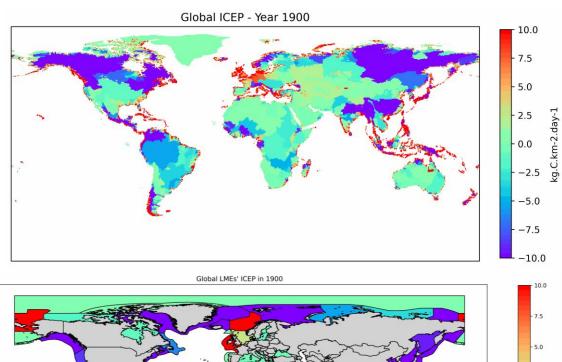
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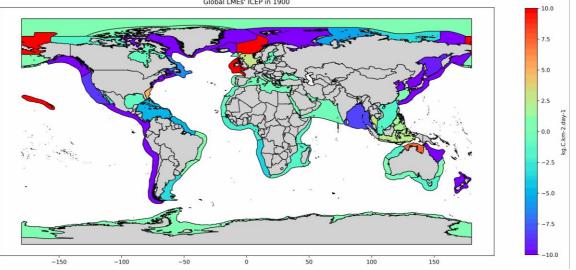
Indicator for SDG 14.1.1

Developed by IOC UNESCO for UNEP, co-funded by UNEP and Norway.

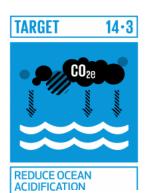
Monthly ICEP: N or P excess over Si for requirements of marine diatoms

Xiaochen Liu, Arthur Beusen, Lex Bouwman. "Exploring the global Index of Coastal Eutrophication Potential for the period 1900-2015." In AGU Fall Meeting Abstracts, vol. 2022, pp. H43E-08. 2022





Multistakeholder partnerships



TARGET

INCREASE SCIENTIFIC KNOWLEDGE, RESEARCH AND TECHNOLOGY FOR

OCEAN HEALTH

14 · A

TARGET

REDUCE MARINE **POLLUTION**





Commission

Global Ocean Acidification Observing Network





Global **Ocean** Science Report 2020





Charting Capacity for Ocean Sustainability



















The Sustainable Development Goals Report **Special edition**



WOA III







Member States







United Nations Environment Programme