

IOC-UNESCO



United Nations Decade of Ocean Science for Sustainable Development (2021-2030)

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presented by Emily Smail (GEO Blue Planet)



United Nations Decade of Ocean Science for Sustainable Development (2021-2030)











United Nations Intergovernmental Susta cational, Scientific and Oceanographic Cultural Organization Commission Susta Devel

ustainable evelopment oals 2016: Thinktank of IOC, the idea! 2017: discussions, massive support from UN, IGOs, NGOs, ... Proposal to UN

6 December 2017
72nd UN General Assembly Resolution

UN Decade of Ocean Science for Sustainable Development (2021-2030)



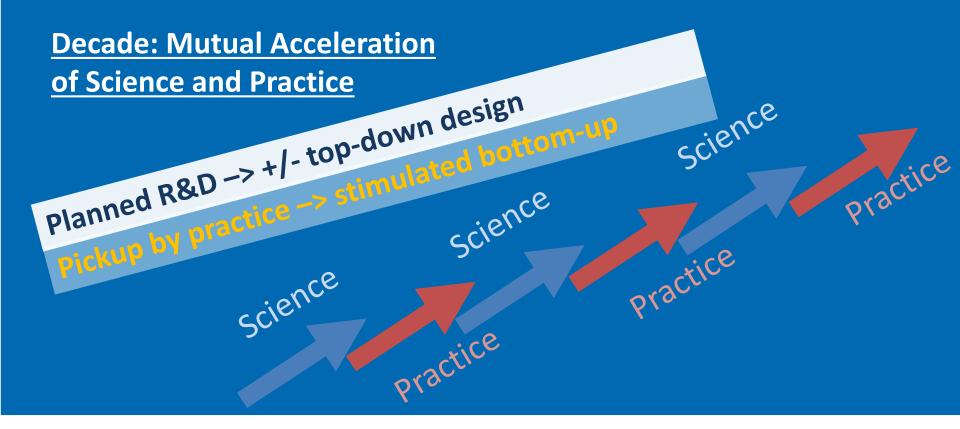
Proposal for an International Decade of Ocean Science for Sustainable Development (2021-2030)



One Planet, One Ocean



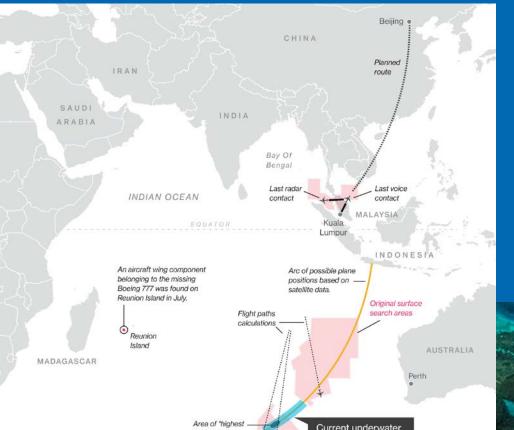
Develop scientific knowledge, build infrastructure, and foster partnerships towards a sustainable and healthy ocean





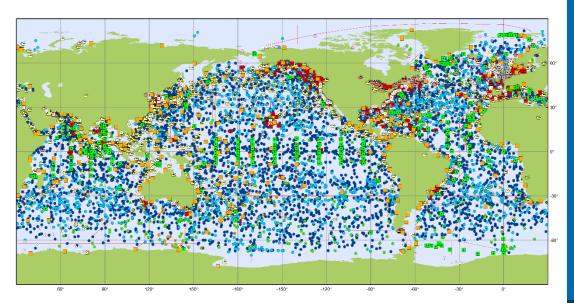
United Nations Intergovernmen
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Cultural Organization Commission





R&D Priority Area 1: Comprehensive map (digital atlas) of the ocean

(Scope: well beyond topography)



R&D Priority Area 2: A comprehensive ocean observing system

(polar, bio, eco, BGC, eDNA, deep ocean, +)

Main in situ Elements of the Global Ocean Observing System

Profiling Floats (Argo Data Buoys (DBCP) Core (3815)

- Surface Drifters (1408)
 - Offshore Platforms (96) Repeated Hydrography (GO-SHIP)
 - Tide Gauges (252)

Timeseries (OceanSITES)

- Interdisciplinary Moorings (338)
 - Research Vessel Lines (61)

Automated Weather Stations (248) Manned Weather Stations (1767)

Ship based Measurements (SOT)

eXpendable BathyThermographs (37)

Other Networks

April 2018

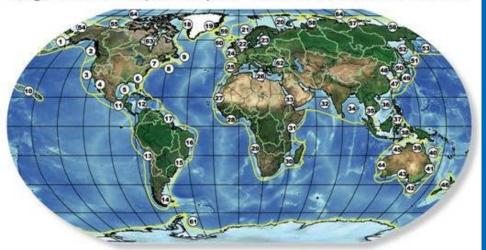








Large Marine Ecosystems of the World and Linked Watersheds



- 13 Humboldt Current

21 Nonwegian Shelf

22. North Sea

- - - 32 Arabian Sea

60 Faroe Plateau

61 Antarctic 62 Black Sea

- 56 Fast Siberian Sea

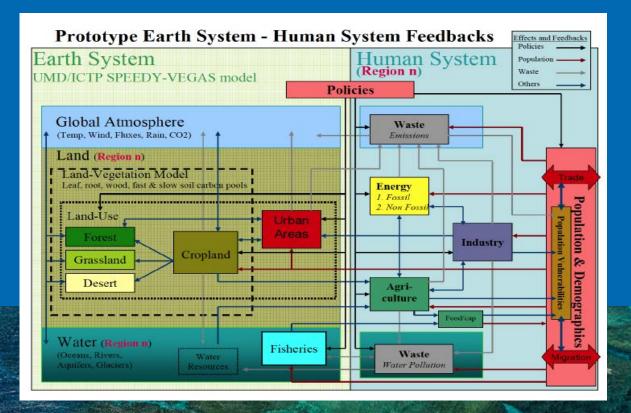
R&D Priority Area 3: A quantitative understanding of ocean ecosystems as the basis for their management and adaptation

(multiple stressors, deep ocean, bottom, predictive, assisted adaptation, e.g. of coral reef ecosystem)



R&D Priority Area 4: Data & information System



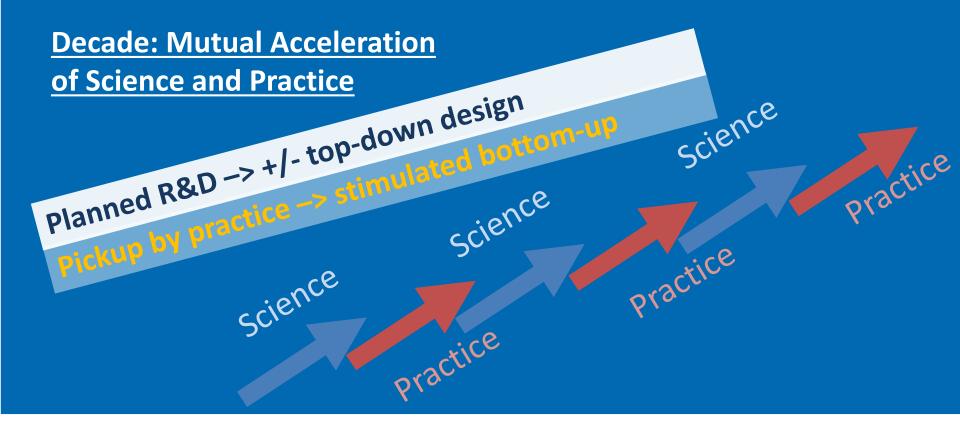


R&D Priority Area 6:
Ocean compartment
of the Earth System
Science and
Observations



R&D Priority Area 7: Capacity Development Education and Training Ocean Literacy









Key Societal Benefit Areas



Coastal zone management and adaptation



Marine
Spatial
Planning/
Blue economy



Establishment of Marine Protected Areas



Fishery management



Nationally
Determined
Contributions
to UNFCCC



Governance: Implemented national ocean policies



Development of national R&D strategies



Regional and national capacity development planning



Early warning systems

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Your UN Decade of Ocean Science for Sustainable Development!

Your once-in-a professional-life time opportunity to make the difference!

