



atlas

UNDERSTANDING DEEP ATLANTIC ECOSYSTEMS



Updates on the ABNJ Deep Seas Project and the marine component of Proteus

WP 6 – Maritime Spatial Planning

Juliette Martin, UN Environment World Conservation Monitoring Centre
(UNEP-WCMC)



The Areas Beyond National Jurisdiction (ABNJ) Deep Seas Project Component 4

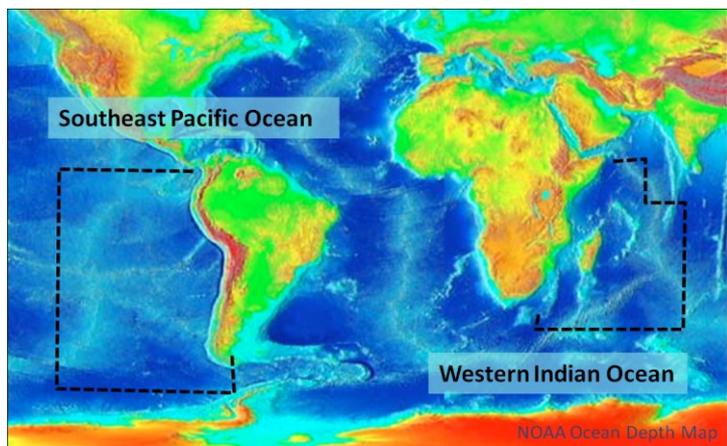


Food and Agriculture
Organization of the
United Nations





The ABNJ Deep Seas Project



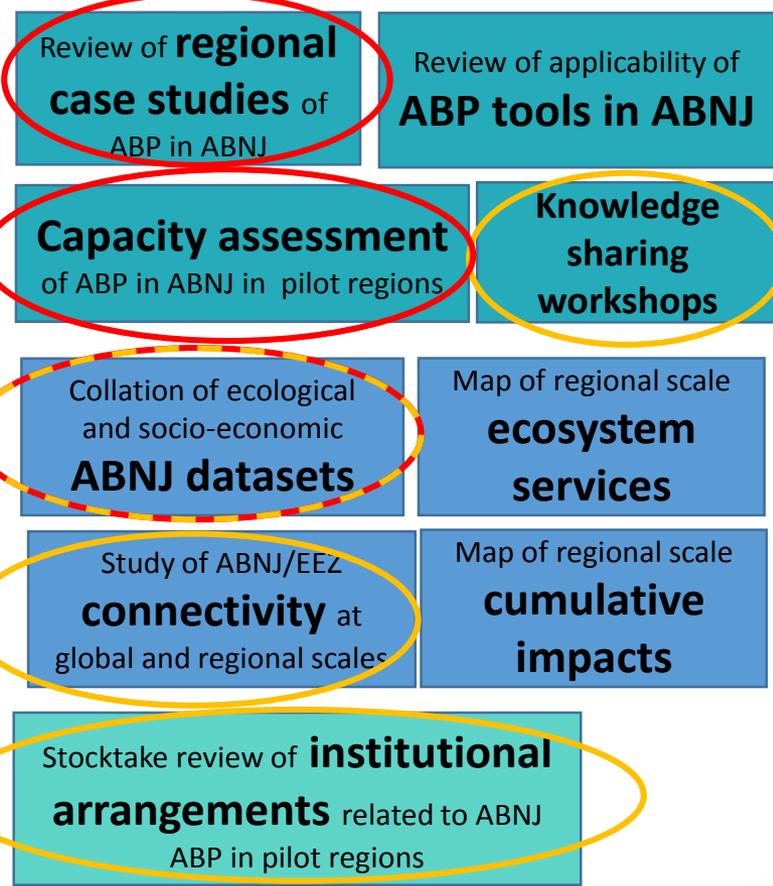
Capacity building & knowledge sharing



Data and tools



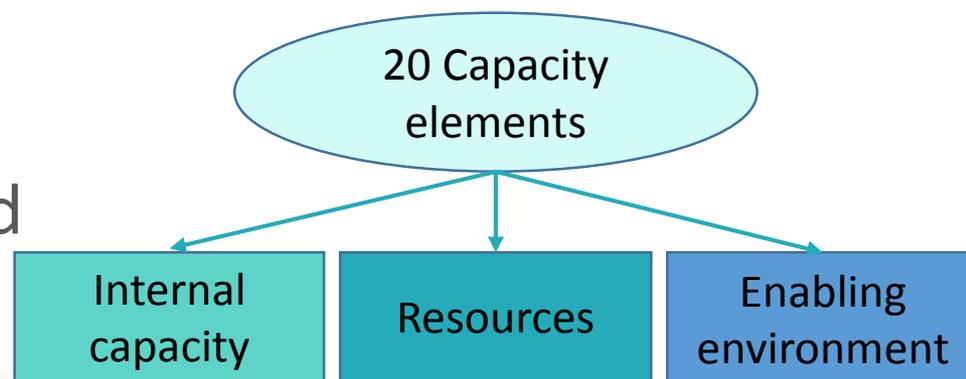
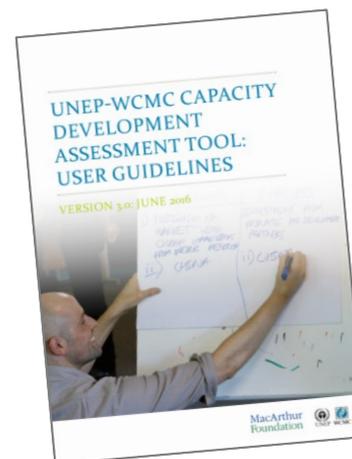
Governance framework





Capacity Assessment

- Assess existing capacity of two Regional Seas and member countries to undertake area-based planning in ABNJ
- Based on workshops held in 2016, verified in 2017
- Capacity assessment framework tool developed by UNEP-WCMC





Example Results

Component: Resources

Element: Data and Information

Minimum Capacity Situation

- Data on key species and ecosystems available at global resolution
- Data on two major human activities (e.g. fishing and mining) in deep sea ABNJ in the Western Indian Ocean at global resolution.
- Necessary data accessible to the Nairobi Convention Secretariat and member countries for area-based planning purposes

Possible Actions

- Run an exercise focused on collating available data in ABNJ
- Support collation of this data into a portal, such as Clearing House Mechanism

Feasibility Assessment

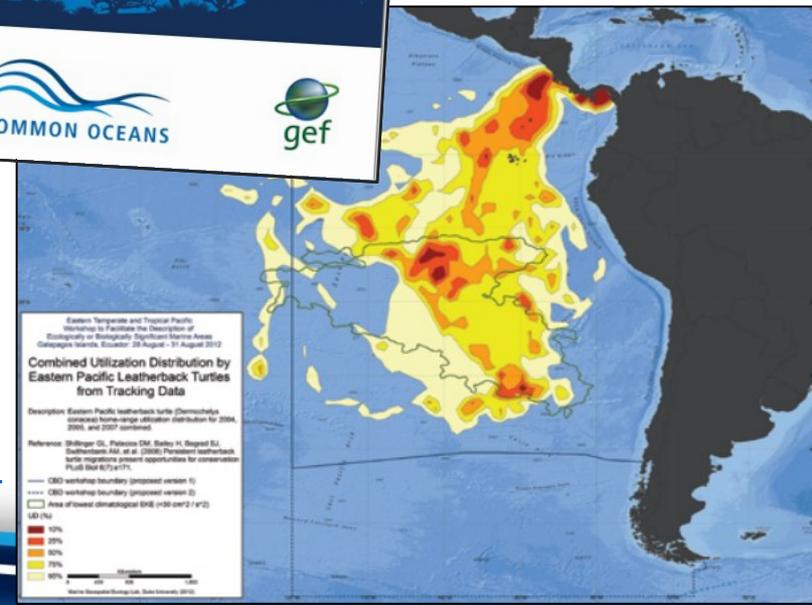
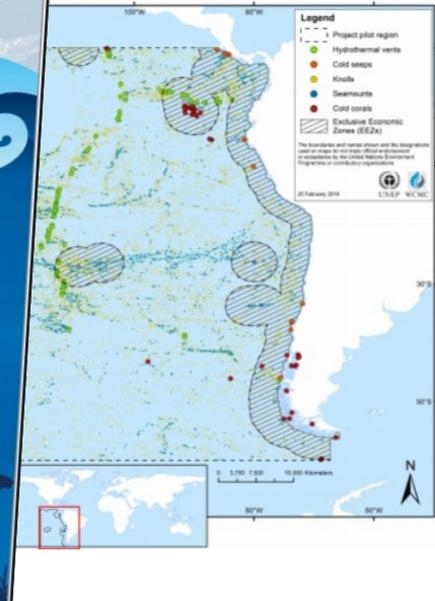
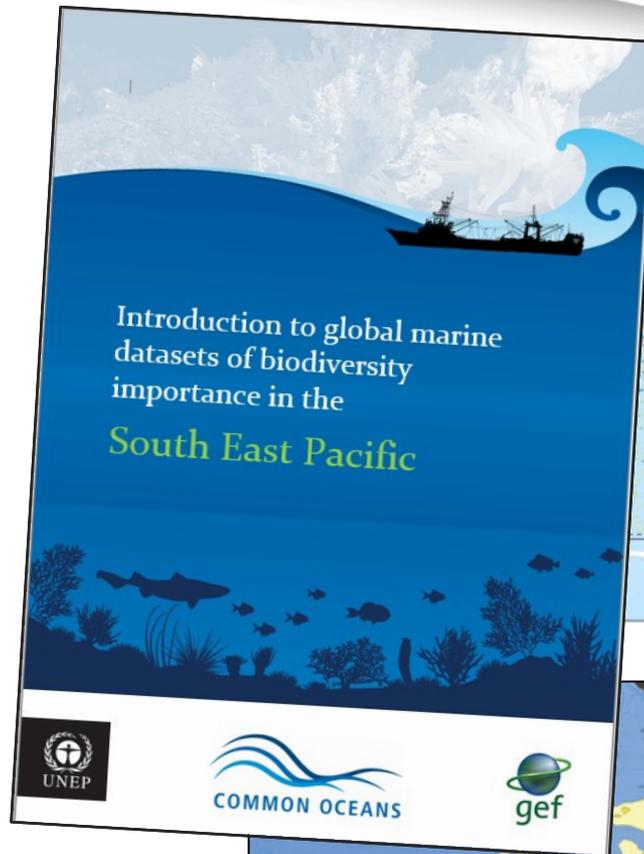
Difficult

Data are available for the Western Indian Ocean, collation could be a useful activity.



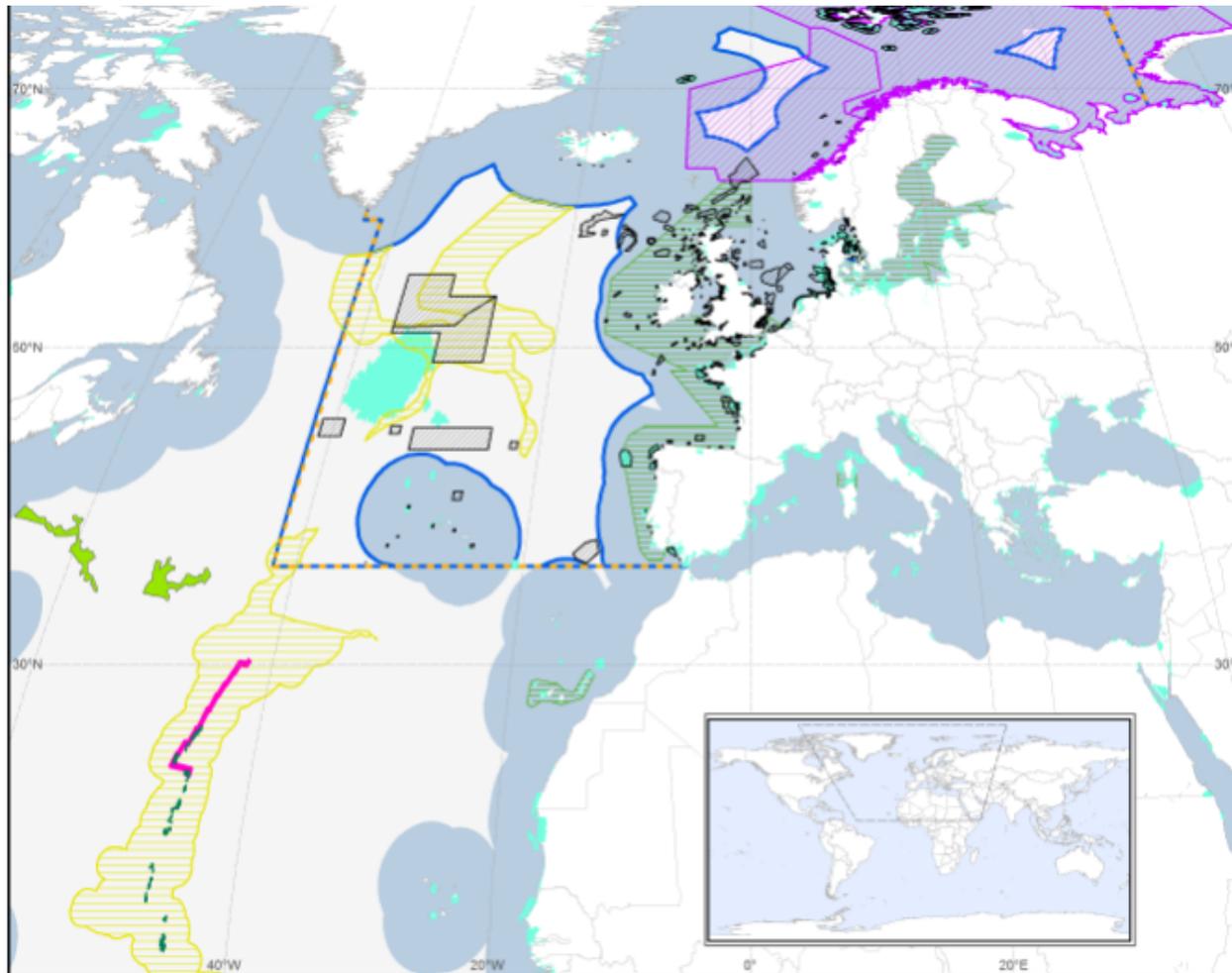
Metadata inventory

- Based on regional inventories published in 2017
- Metadata for regional and national datasets
- Data gaps for each region, limitations, barriers
- Metadata standards



<http://wcmc.io/SEPdata>

Case studies



-  OSPAR Marine Protected Areas
-  IMO Particularly Sensitive Sea Areas (PSSAs)
-  Polymetallic Sulfides Exploration Areas on the mid-Atlantic ridge
-  North-East Atlantic Fisheries Commission (NEAFC) regulatory area
-  OSPAR Maritime
-  Boundaries of the Strategic Environmental Management Plan for deep seabed mineral exploitation in the Atlantic basin (SEMPIA)
- Non-management designations**
-  CBD Corner Rise Seamount EBSA (North-west Atlantic workshop)
-  CBD Hydrothermal Vent EBSA (North-west Atlantic workshop)
-  CBD Arctic Ice EBSA (Arctic workshop)
-  Large Marine Ecosystems - Barents and Norwegian Seas (LMEs)
-  BirdLife International Important Bird Areas (IBAs) - showing all sites within 10km of the sea
-  Exclusive Economic Zones (EEZs)

The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

Global coastline and political boundaries data (1:1,000,000 scale) from the UN Boundaries dataset, UN Cartographic Section, 2016.



© UNEP-WCMC April 2018

Case studies

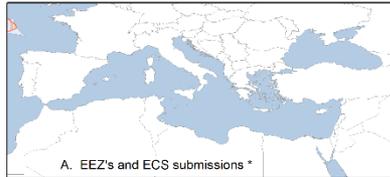
A
EEZ's and ECS
Submissions *



B
OSPAR
Maritime Area

OSPAR
Maritime Area

Recommendations



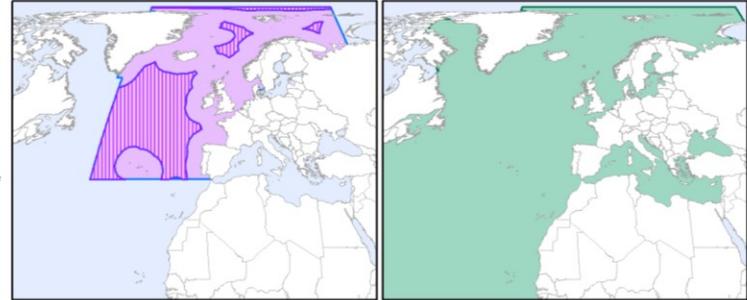
Extended Continental Shelf (ECS) submissions: Recommendations Exclusive Economic Zones (EEZs)



GFCM Regulatory Area

C
NEAFC
Regulatory area

NEAFC
Regulatory
Area
NEAFC Area of
Competence

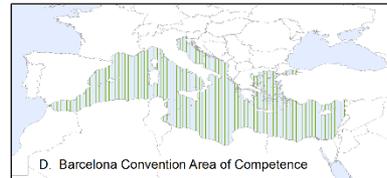


D
ICCAT
convention area *

ICCAT
Convention
Area



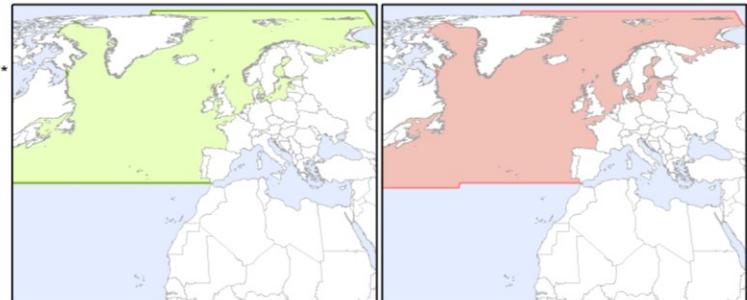
ICCAT regulatory area



Barcelona Convention Area of Competence

E
NASCO
Regulatory Area *

NASCO
Regulatory
Area



F
NAMMCO
Regulatory area *

NAMMCO
Regulatory
Area



Adriplan Focus Areas Adriplan participating countries

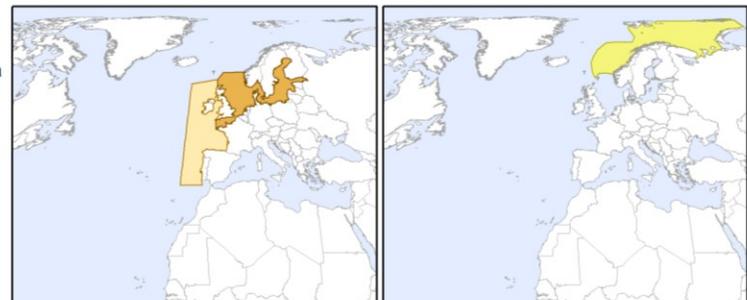


Parties to ACCOBAMS

*NOTE: The displayed map layer extends beyond the area shown in the map.

G
ASCOBANS
Agreement Area

ASCOBANS
Original
Agreement
Area
ASCOBANS
Extended
Agreement
Area



H
Jointfish
Regulatory Area

JointFish
Regulatory
Area



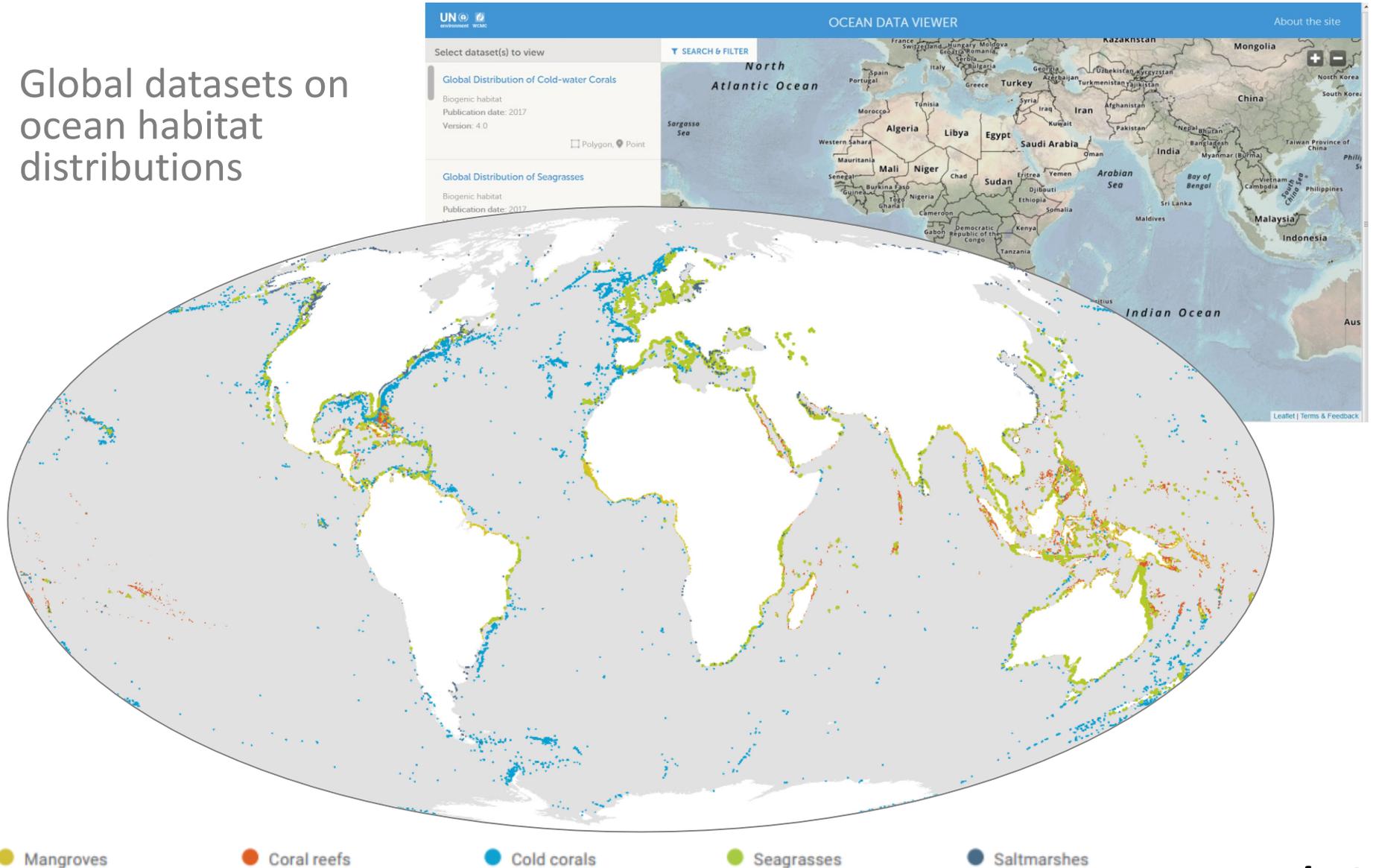
Marine component of Proteus

proteus



Ocean Data Viewer

- Global datasets on ocean habitat distributions



● Mangroves

● Coral reefs

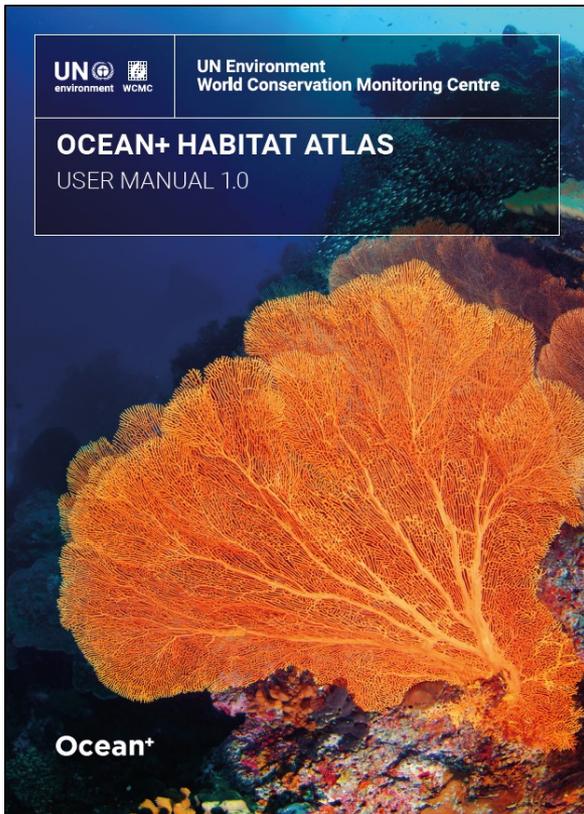
● Cold corals

● Seagrasses

● Saltmarshes

Introducing Ocean+

Mission: Contribute to a step-change in global access to, and use of, ocean and coastal biodiversity information and spatial data to support the transition to a healthy ocean



Ocean+ Data identifies 183 global marine and coastal datasets of biodiversity importance.

Ocean+ Habitat Atlas will provide up-to-date national and global statistics on ocean habitat extent and overlap with protected areas.

Category	Resource	Version	Contact Organisation	ID	Metadata	Factsheet	Themes
Biogenic habitat	Coral Trait Database	2017	Macquarie University	1			
Biogenic habitat	Global Distribution of Cora...	2	UN Environment World Conservation Monitoring Centre	2	Link	Link	
Biogenic habitat	Global Distribution of Cora...	7	UN Environment World Conservation Monitoring Centre	3	Link	Link	
Biogenic habitat	Global Distribution of Cold...	4	UN Environment World Conservation Monitoring Centre	4	Link	Link	
Biogenic habitat	Global Habitat Suitability...	1	School of Ocean Sciences, University of Bangor	5	Link	Link	
Biogenic habitat	Global Distribution of Habi...	2009	UN Environment World Conservation Monitoring Centre	6	Link		

wcmc.io/oceandata

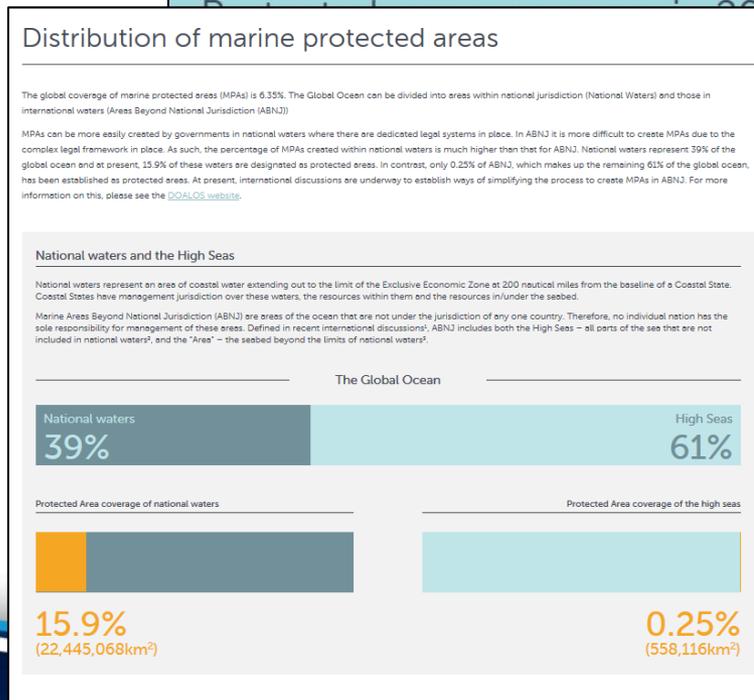


wcmc.io/atlasbrochure

Ocean+ Habitat Atlas

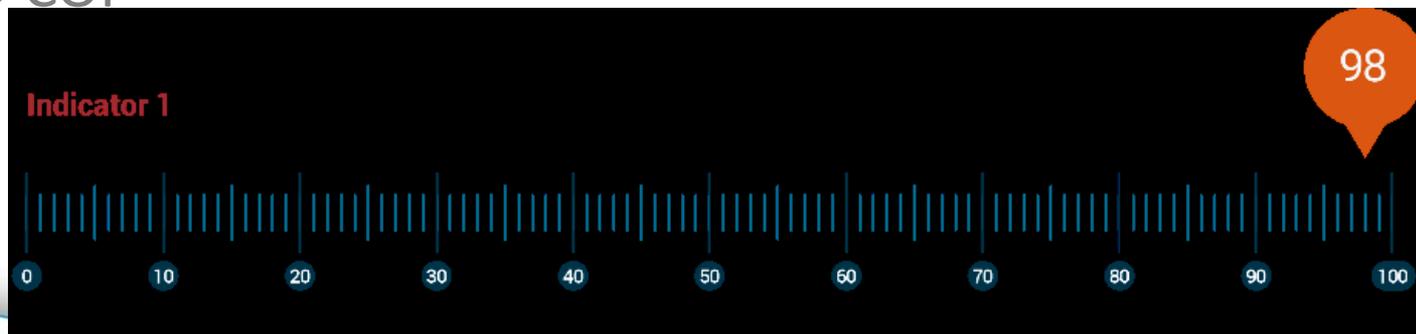
- Annually updated statistics on the known distribution of ocean habitats globally, and by country;
- Monthly updated statistics on the overlap with protected areas;
- Directly informing progress toward international targets.

Linked to Marine Protected Planet (wcmc.io/mpas).



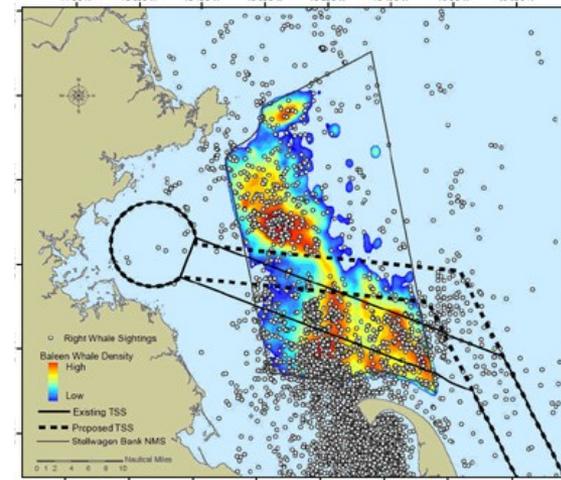
Benefits

- Provide high-quality marine biodiversity data with **greater transparency, coverage, and contextual information**
- **Track improvements** in the quality of our marine biodiversity datasets through quality metrics
- **Track progress** towards global marine-related targets, such as the Aichi Biodiversity Targets, SDGs and post-2020 biodiversity agenda
- Identify locations where **capacity development** is required
- **Establish partnerships** with key global biodiversity networks to strengthen our collective ability to monitor biodiversity
- Launch at CBD COP



Ocean+ data products uses

- Various planning phases of **environmental impact assessments**, such as high-level screening for areas of biodiversity importance (e.g. for vulnerability, diversity, health and threat analyses)
- **Site assessments and risk prevention** (e.g. for oil spills)
- Contributions to the identification of **ecosystem services and marine natural capital**, ocean literacy uptake and the development of **marine spatial plans**



Thank You!



Presenter details:

Juliette.Martin@unep-wcmc.org

Ruth.Fletcher@unep-wcmc.org

Lauren.Weatherdon@unep-wcmc.org



Project Contact Details:

Coordination: Professor Murray Roberts

murray.roberts@ed.ac.uk

Project Management: Dr. Katherine Simpson

katherine.simpson@ed.ac.uk

Follow us:  @eu_atlas

 @EuATLAS

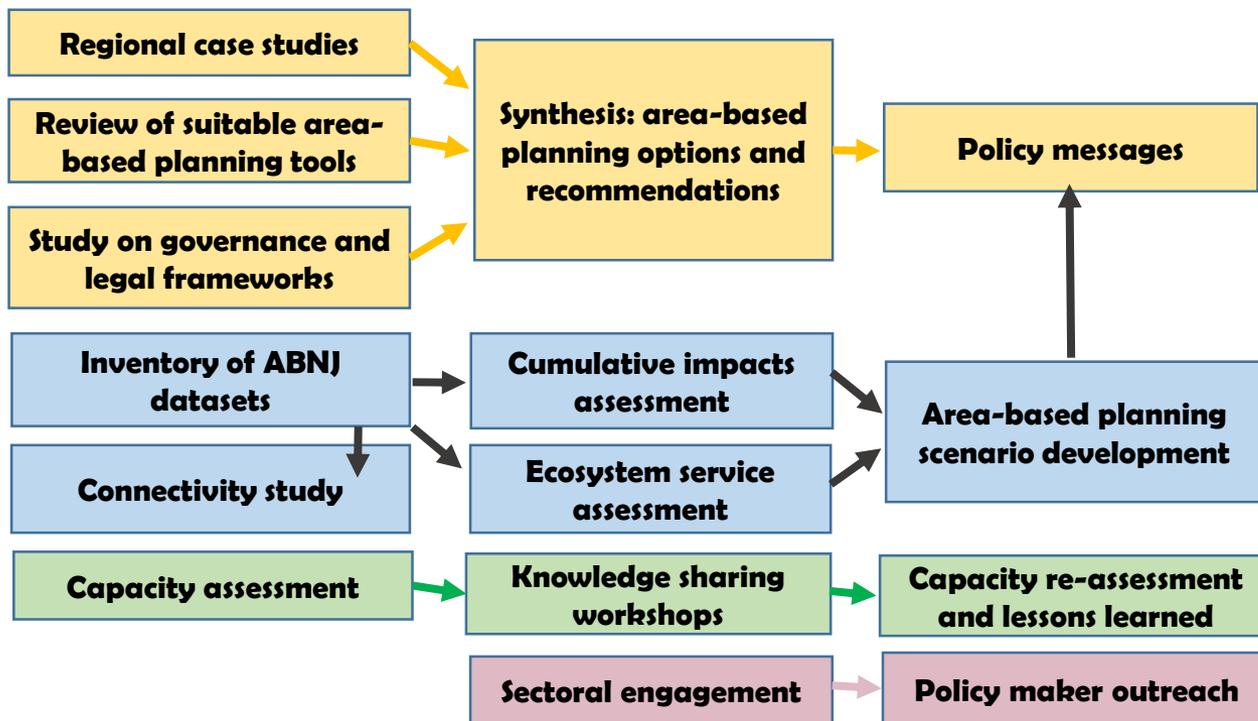
www.eu-atlas.org



2017

2018

2019



Reviews & studies

Data & tools

Capacity development

Stakeholder engagement

Outcomes

- Tools tested
- Experiences shared
- Capacity developed



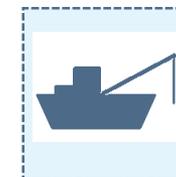
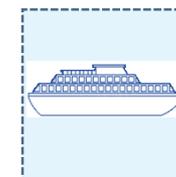
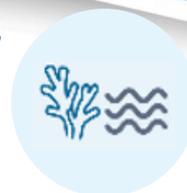
ACTION PLAN			
WHO	WHAT	WHEN	HOW

Area-Based Management Tools Review

Identify key features of tools which enable their use for conservation and sustainable use of Biodiversity Beyond National Jurisdiction

Key highlights:

- Sectoral tools implemented in ABNJ, but limited by organizational mandate
- Many guidelines have provisions to facilitate tool implementation in ABNJ
- Many challenges to overcome
- Supporting tools crucial



- In 2017, national “data packs” (see figure for contents) were created in preparation for the 2018 call for data.
- Ocean habitat datasets will **undergo government review and validation in 2018**, via CBD national/marine and GCRMN regional focal points.
- These annually updated datasets will be uploaded onto the Ocean Data Viewer and collated into the first version of the **Ocean+ Habitat Atlas**
- Launch at CBD Conference of the Parties in November 2018

