



# 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*

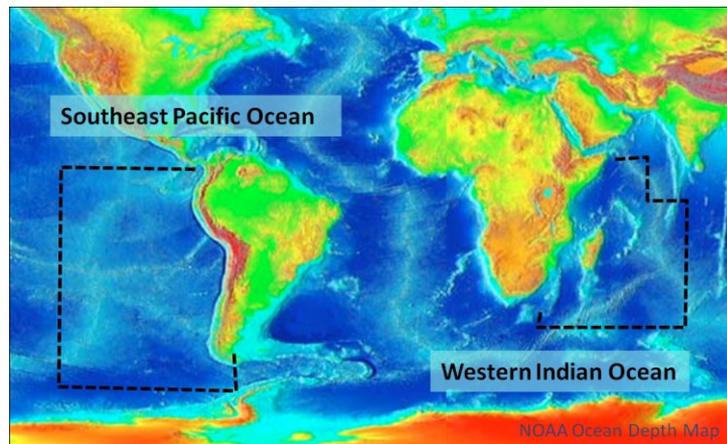


Food and Agriculture  
Organization of the  
United Nations





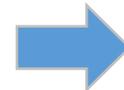
# The ABNJ Deep Seas Project



Capacity building & knowledge sharing



Data and tools



Governance framework



Review of **regional case studies** of ABP in ABNJ

Review of applicability of **ABP tools in ABNJ**

**Capacity assessment** of ABP in ABNJ in pilot regions

**Knowledge sharing workshops**

Collation of ecological and socio-economic **ABNJ datasets**

Map of regional scale **ecosystem services**

Study of ABNJ/EEZ **connectivity** at global and regional scales

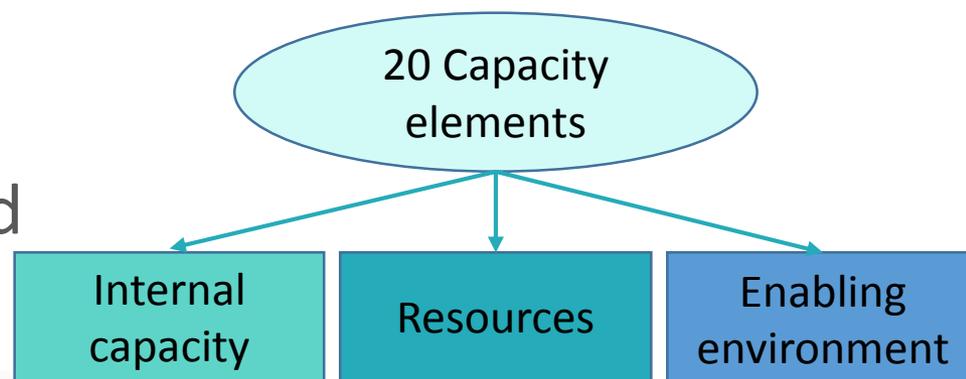
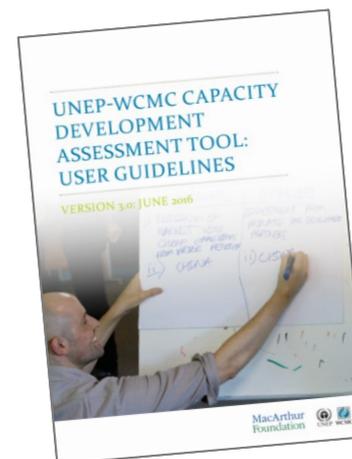
Map of regional scale **cumulative impacts**

Stocktake review of **institutional arrangements** related to ABNJ ABP in pilot regions



# 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

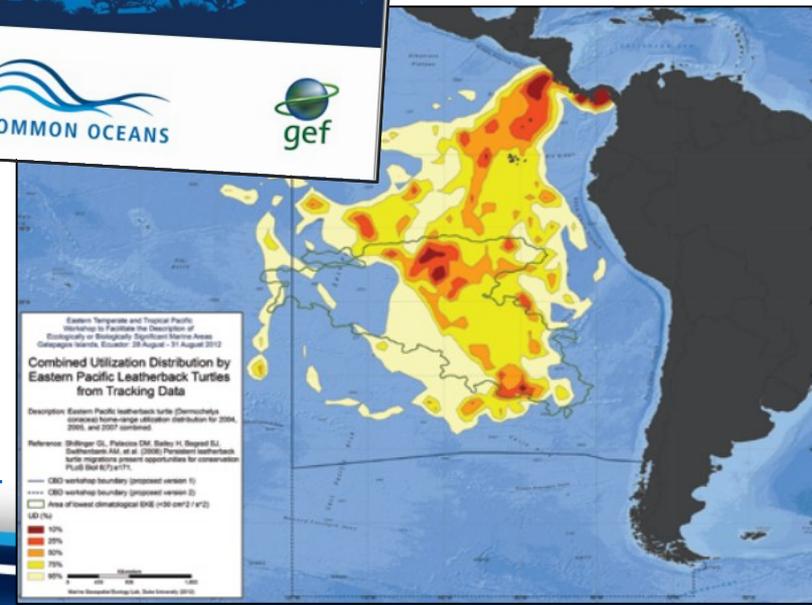
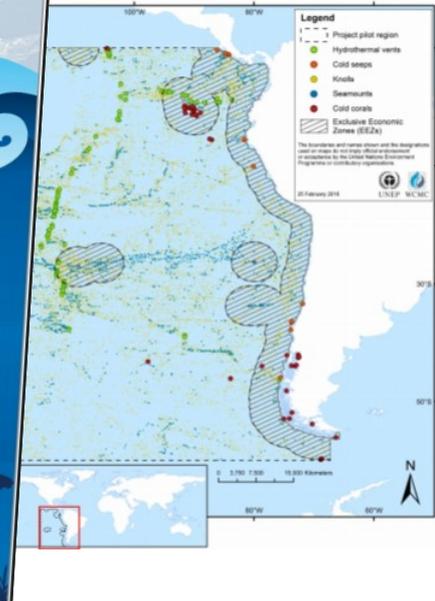
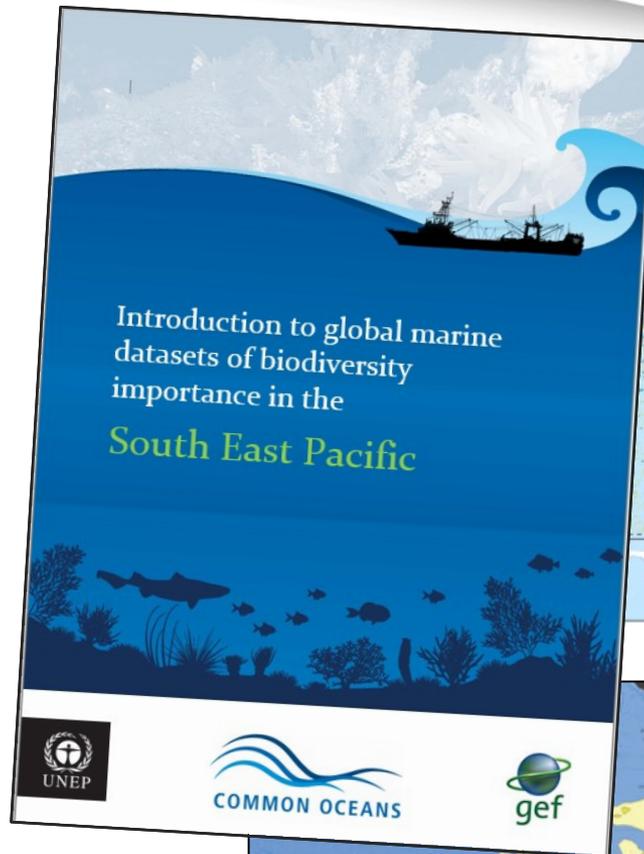
Difficult

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



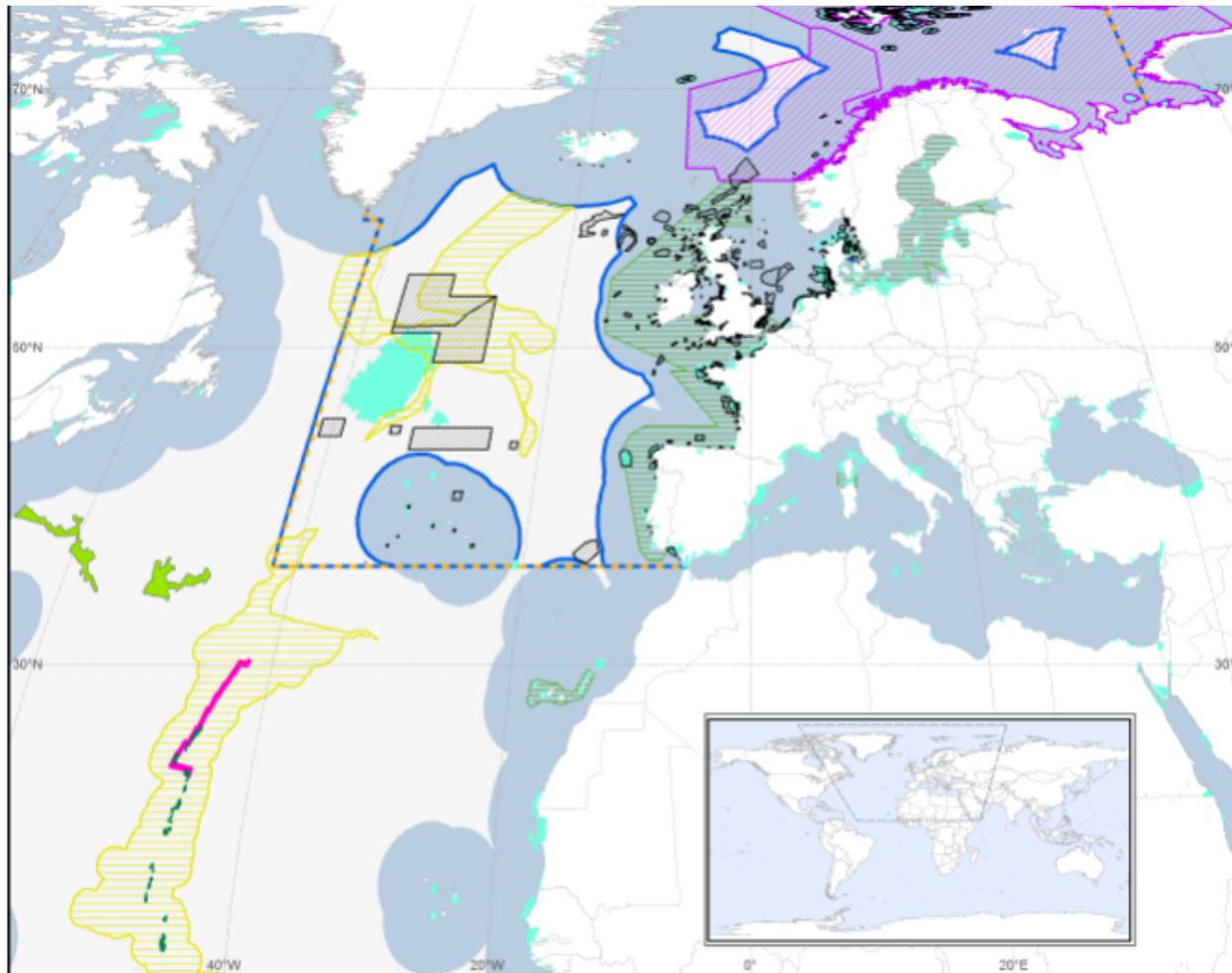
# Metadata inventory

- 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.



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# Case studies

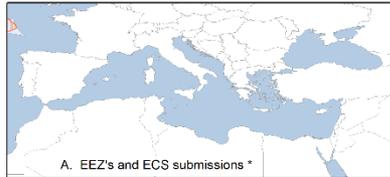
A  
EEZ's and ECS  
Submissions \*



B  
OSPAR  
Maritime Area

OSPAR  
Maritime Area

Recommendations



Extended Continental Shelf (ECS) submissions: Recommendations



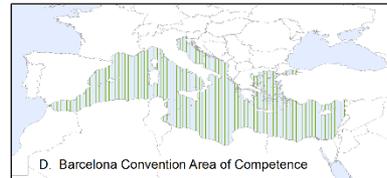
ICCAT regulatory area



Adriplan Focus Areas



GFCM Regulatory Area



Barcelona Convention Area of Competence

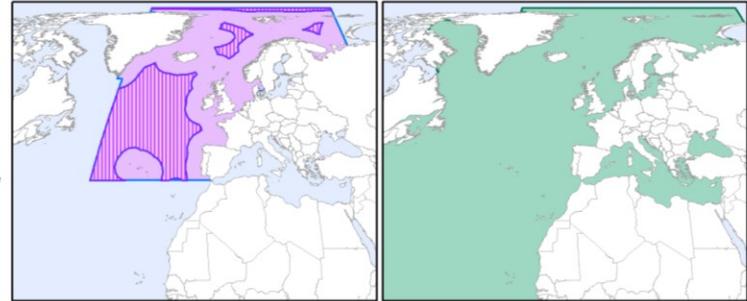


Parties to ACCOBAMS

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

C  
NEAFC  
Regulatory area

NEAFC  
Regulatory Area  
NEAFC Area of  
Competence

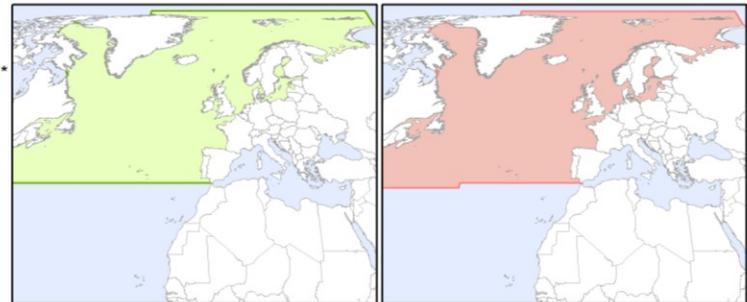


D  
ICCAT  
convention area \*

ICCAT  
Convention  
Area

E  
NASCO  
Regulatory Area \*

NASCO  
Regulatory  
Area

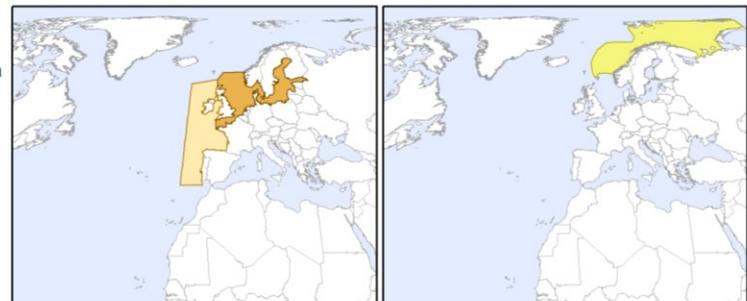


F  
NAMMCO  
Regulatory area \*

NAMMCO  
Regulatory  
Area

G  
ASCOBANS  
Agreement Area

ASCOBANS  
Original  
Agreement  
Area  
ASCOBANS  
Extended  
Agreement  
Area



H  
Jointfish  
Regulatory Area

JointFish  
Regulatory  
Area



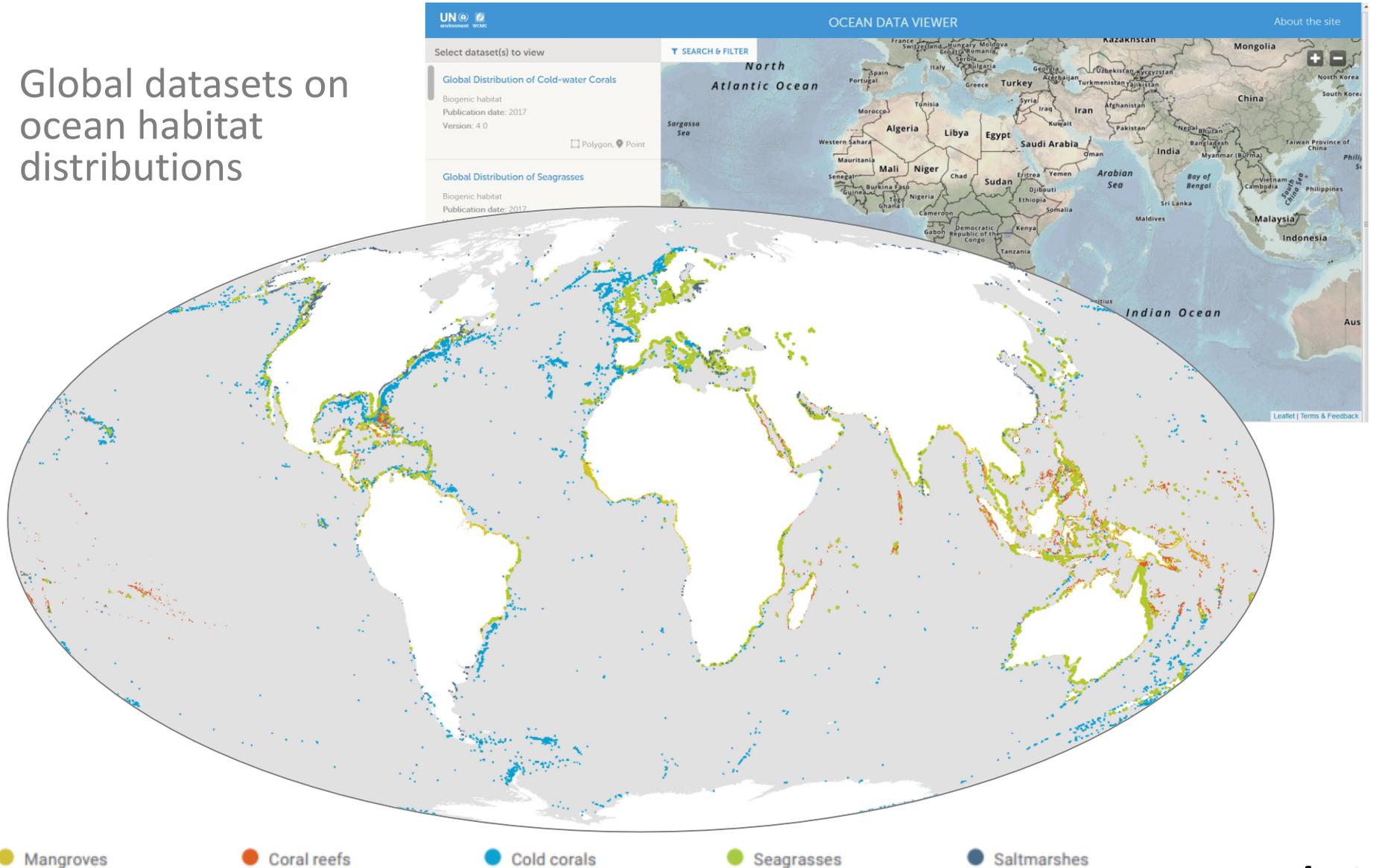
# *Marine component of Proteus*

proteus



# Ocean Data Viewer

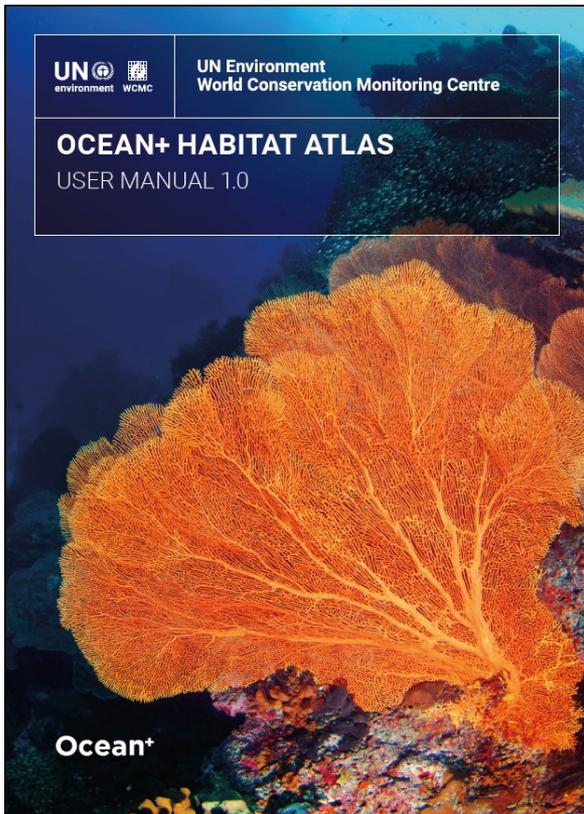
- Global datasets on ocean habitat distributions



● 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	<a href="#">Coral Trait Database</a>	2017	Macquarie University	1			
Biogenic habitat	<a href="#">Global Distribution of Cora...</a>	2	UN Environment World Conservation Monitoring Centre	2	<a href="#">Link</a>	<a href="#">Link</a>	
Biogenic habitat	<a href="#">Global Distribution of Cora...</a>	7	UN Environment World Conservation Monitoring Centre	3	<a href="#">Link</a>	<a href="#">Link</a>	
Biogenic habitat	<a href="#">Global Distribution of Cold...</a>	4	UN Environment World Conservation Monitoring Centre	4	<a href="#">Link</a>	<a href="#">Link</a>	
Biogenic habitat	<a href="#">Global Habitat Suitability...</a>	1	School of Ocean Sciences, University of Bangor	5	<a href="#">Link</a>	<a href="#">Link</a>	
Biogenic habitat	<a href="#">Global Distribution of Habi...</a>	2009	UN Environment World Conservation Monitoring Centre	6	<a href="#">Link</a>		

[wcmc.io/oceandata](https://wcmc.io/oceandata)

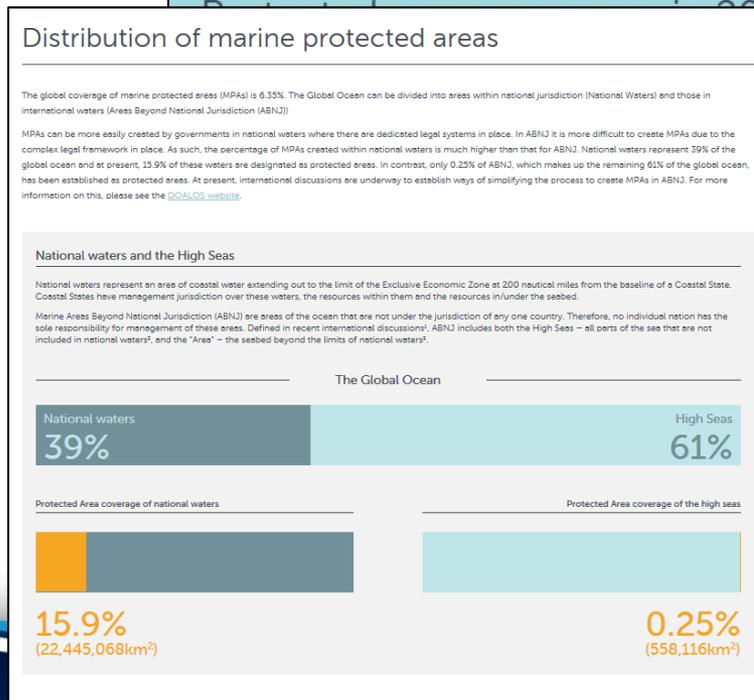


[wcmc.io/atlasbrochure](https://wcmc.io/atlasbrochure)

# Ocean+ Habitat Atlas

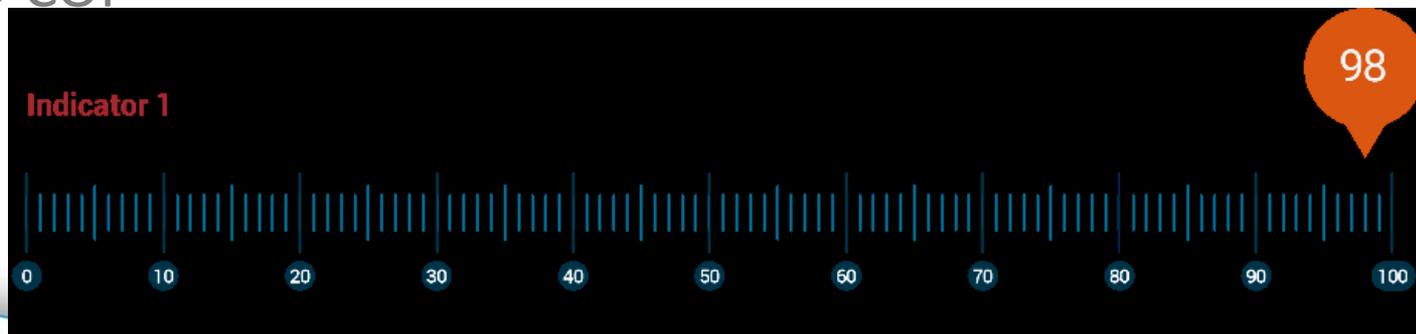
- Annually updated statistics on the known distribution of ocean habitats globally, and by country;
- Monthly updated statistics on the overlap with protected areas;
- Directly informing progress toward international targets.

**Linked to Marine Protected Planet ([wcmc.io/mpas](http://wcmc.io/mpas)).**



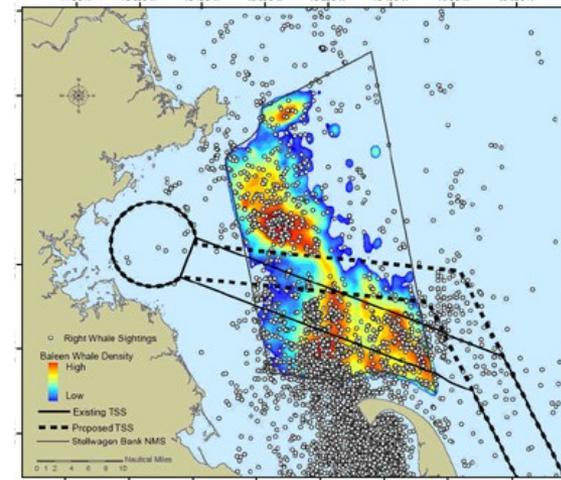
# Benefits

- 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:

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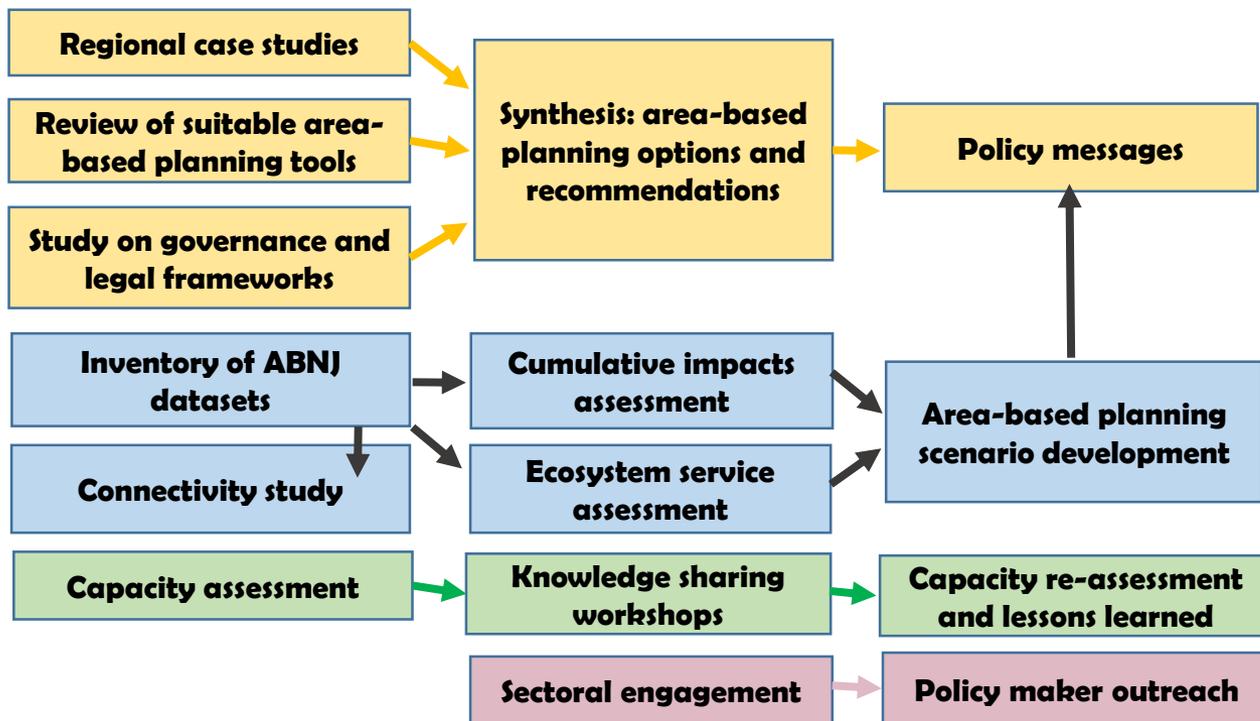
[www.eu-atlas.org](http://www.eu-atlas.org)



2017

2018

2019



*Reviews & studies*

*Data & tools*

*Capacity development*

*Stakeholder engagement*

### Outcomes

- Tools tested
- Experiences shared
- Capacity developed



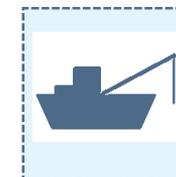
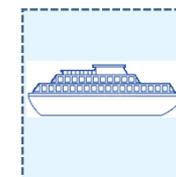
ACTION PLAN			
WHO	WHAT	WHEN	HOW

# 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

