

How following the FAIR principles has allowed EMODnet Seabed Habitats to aggregate and combine disparate data into new products for the benefit of many

Helen Lillis

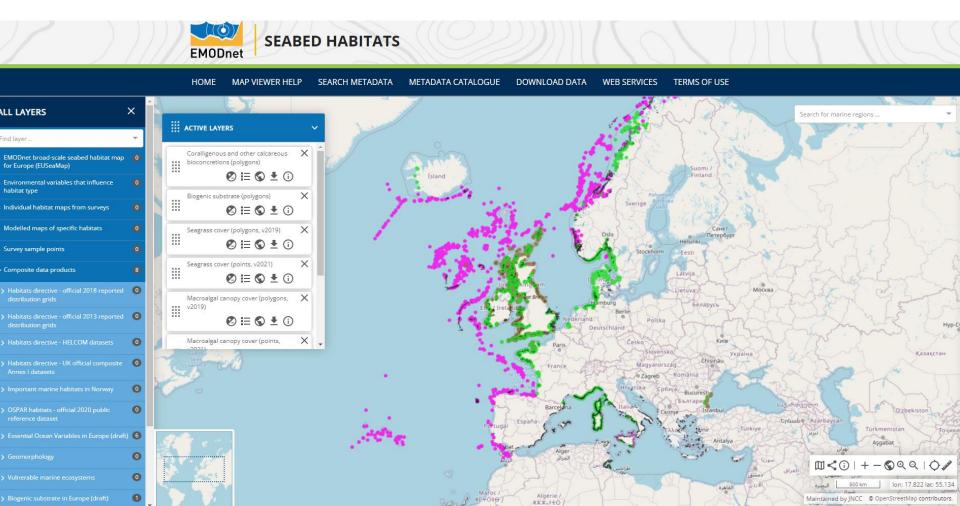
JNCC, helen.lillis@jncc.gov.uk





What is EMODnet Seabed Habitats

www.emodnet-seabedhabitats.eu





Who is EMODnet Seabed Habitats







Italian National Institute for Environmental Protection National Research and Development Institute for and Research







Geological Survey of Denmark and Greenland







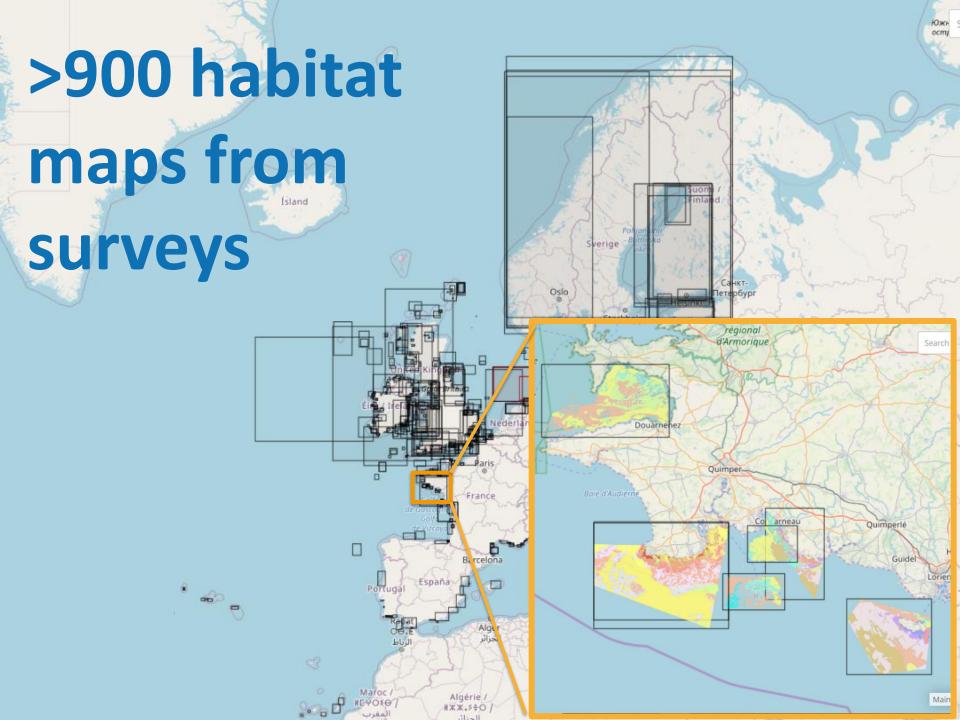
Marine Geology and Geoecology

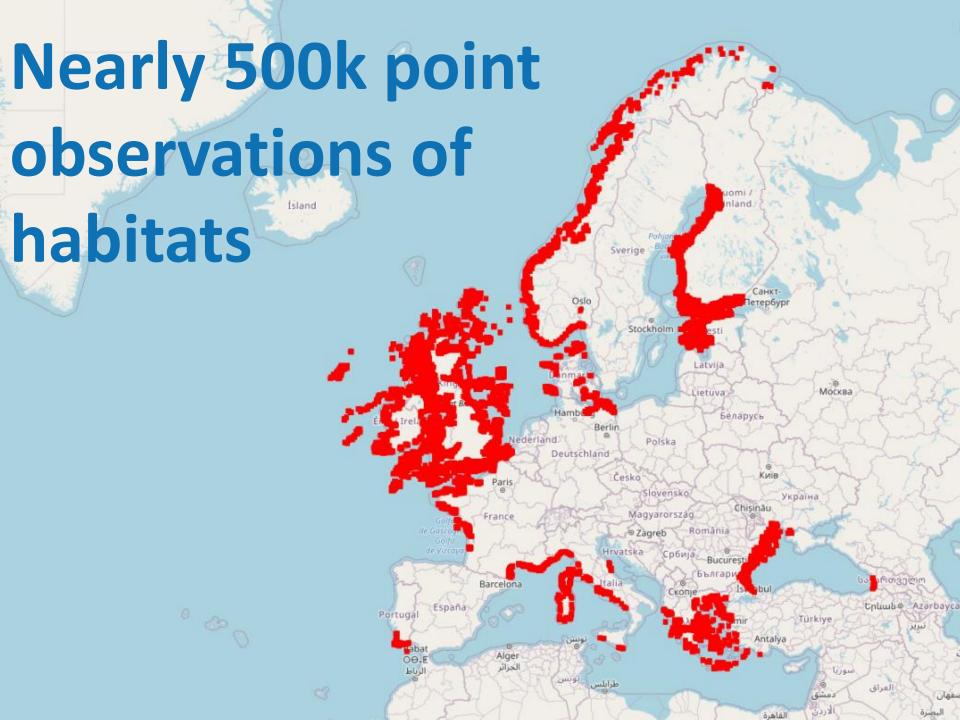


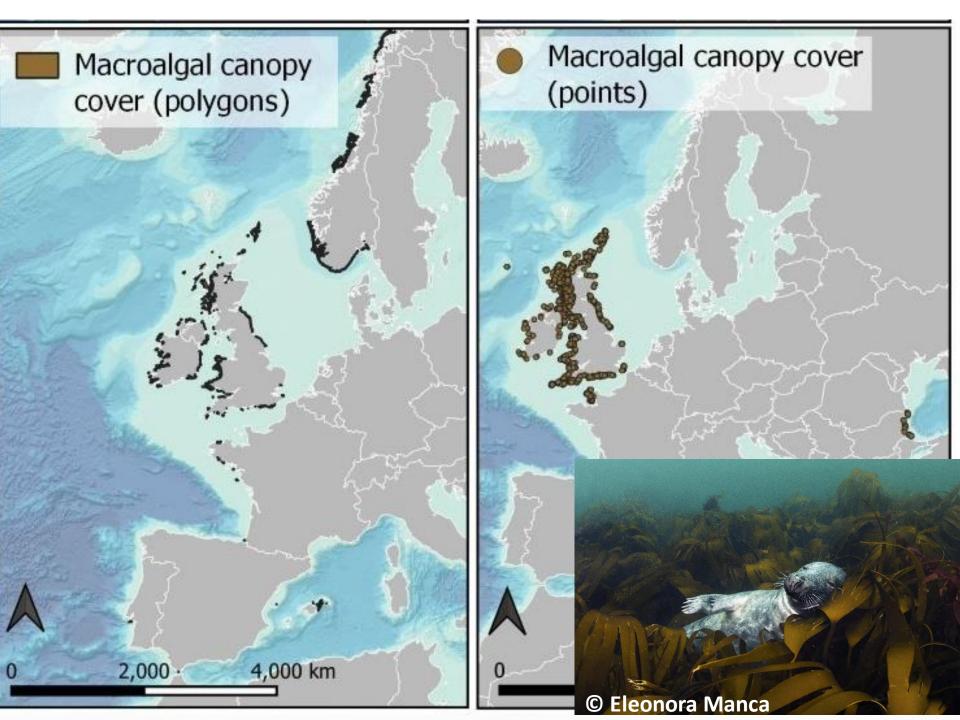
Hellenic Centre for Marine Research



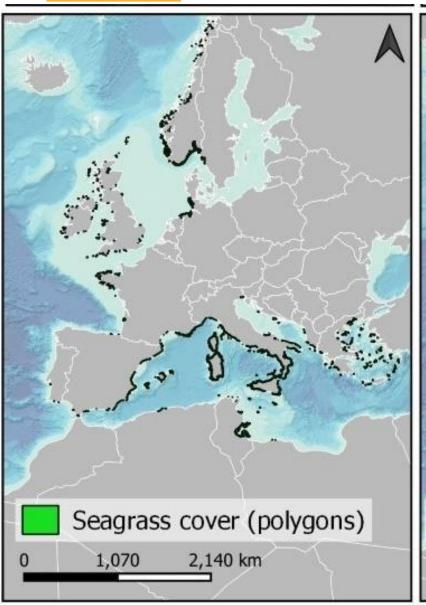
Institute of Oceanography - Bulgarian Academy of Sciences

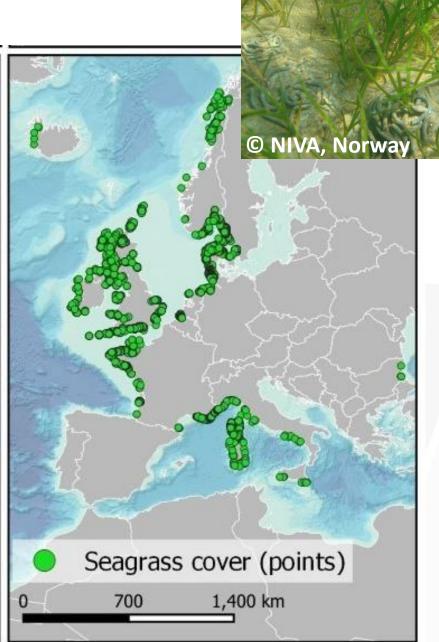


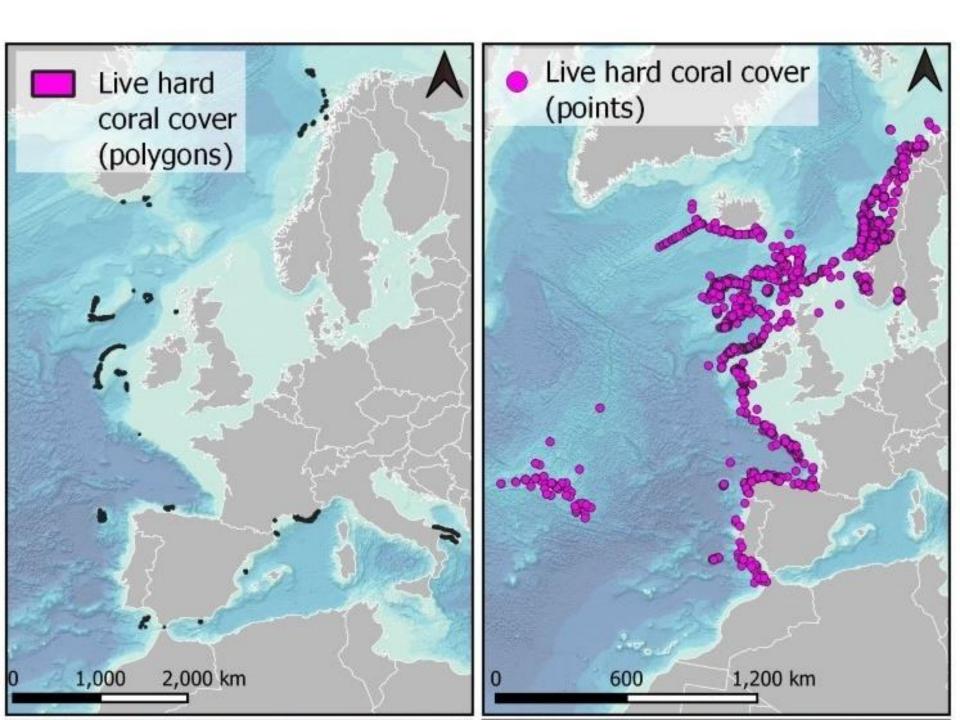


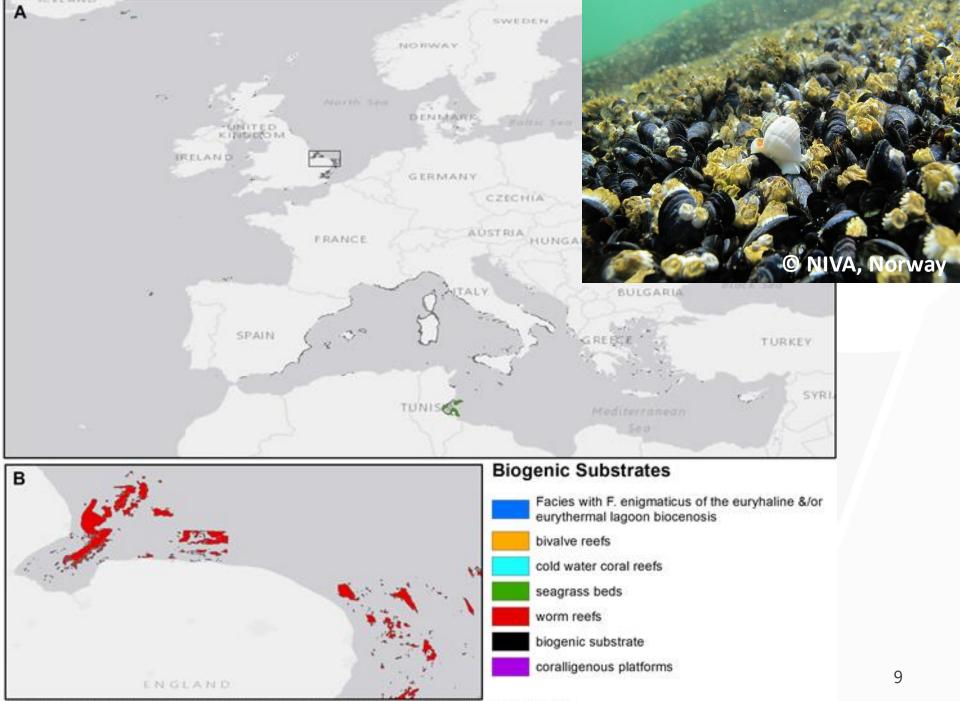












Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community











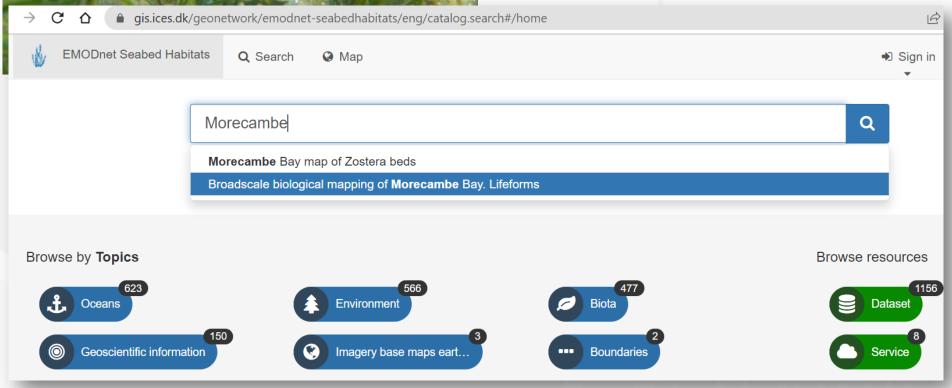






F4 Metadata in a searchable resource:

GeoNetwork





F1 Unique and persistent identifiers:

controlled vocabularies

▲ Not secure vocab.nerc.ac.uk/collection/M22/current/









The NERC Vocabulary Server (NVS)

Service Status

NVS Home | Vocabularies | Thesauri | Search NVS | SPARQL | Other Tools | About NVS

Vocabulary

OSPAR List of Threatened and/or Declining Species and **Habitats**

Alternate Formats

Other formats for this page:

RDF/XML

Turtle

JSON-LD

Alternate Profiles

A1 (Meta)data are retrievable by their identifier using a standardised communication protocol:

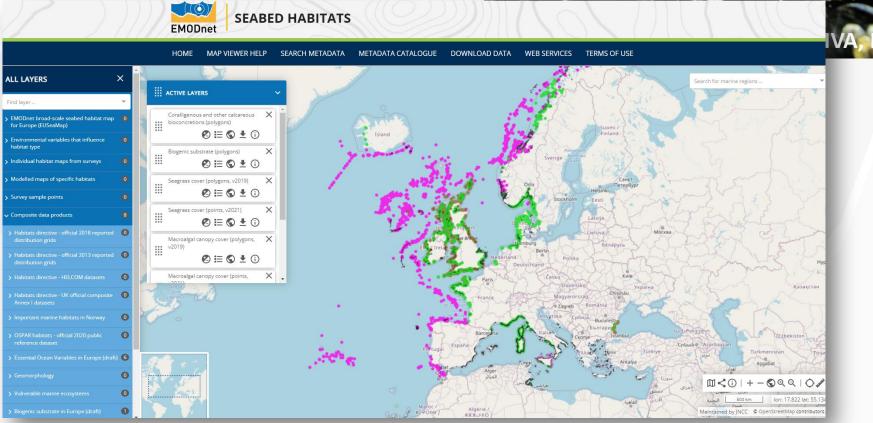
Open Geospatial Consortium (OGC) web services





A1 (Meta)data are retrievable by their identifier using a standardised communication protocol:

Free, web-based map viewer



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Habitat Point Data Submission Process

Habitat Map Submission Process

Data exchange format

HOME / CONTRIBUTE DATA / Data exchange format

Data exchange format

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A standardised attribute table format simplifies the process of combining multiple habitat maps and makes the information easier to understand for end users. We call this the Data Exchange Format (DEF). A PDF version of this page is also available.

For submission to EMODnet Seabed Habitats, a had according to one of the EMODnet Seabed Habitats published in 2005 as part of the EU-funded MESH

For habitat maps, the type of DEF depends on the

nteroperable

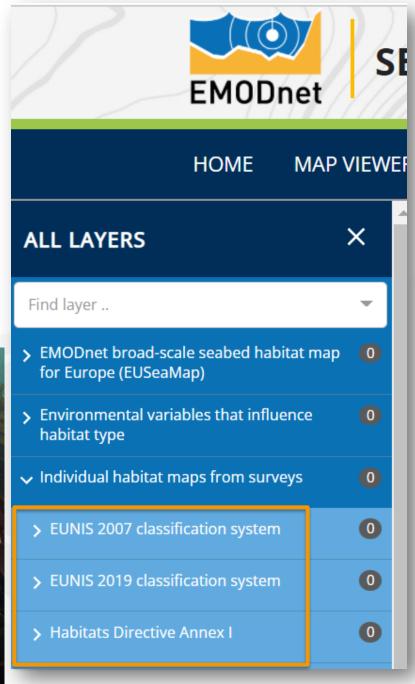
I1 (Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation:

Data schema for habitat maps

I2 (Meta)data use vocabularies that follow FAIR principles:

Standard vocabularies for habitat types







Biogenic substrate in Europe (View layer metadata)

Biogenic substrate type - most detailed level	Sabellaria spinulosa reefs	
Biogenic substrate type - level 1	biogenic substrate	
Biogenic substrate type - level 2	worm reefs	
Biogenic substrate type - level 3	Sabellaria spinulosa reefs	
Biogenic substrate type -	not applicable	
Source data product name	OSPAR habitats - official 2020 public reference dataset	
Source data product type	Composite data product - international	
Source habitat type	Sabellaria spinulosa reefs	
Source classification OSPAR threatened and/or declining habitats		
Original map ID	GB_D_00001	
Original habitat type	Ross worm (Sabellaria spinulosa) reefs + A4.2	
Original classification system	unknown	
Original map date	2013-12-31	
Area of source polygon	67473587.6214	

R1.2 (Meta)data are associated with detailed provenance

Provenance of each polygon is described in composite data products



Dunoon

R1.1 (Meta)data are released with a clear and accessible data usage license

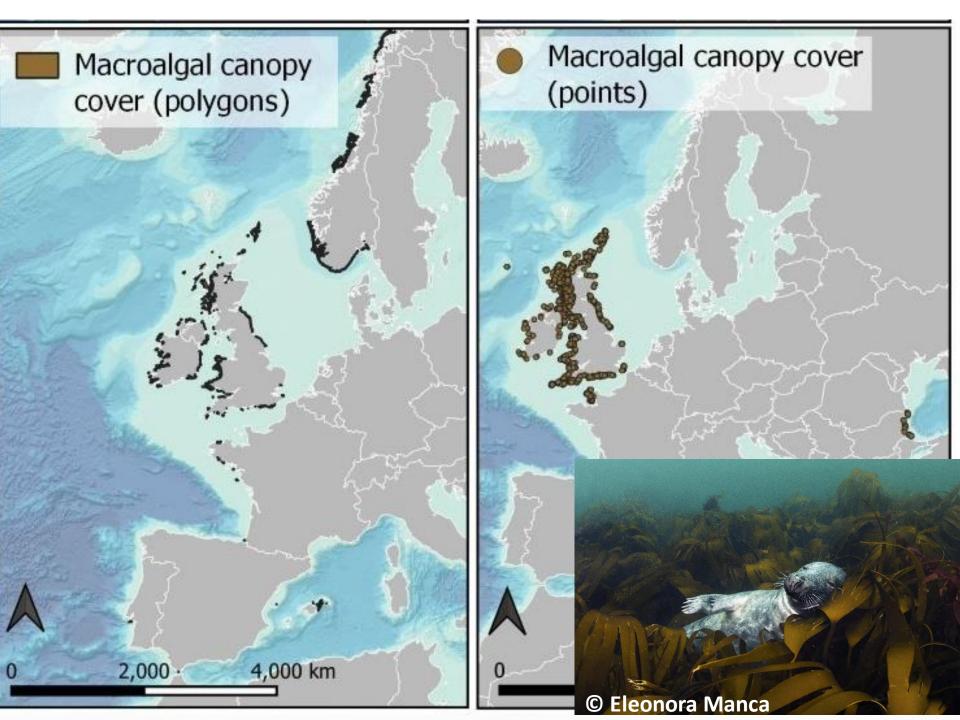
Habitat maps dataset-level information

		The state of the s	
Dataset Gl (identifier	l Availability	MESH confidence score	Habitat classification system
GB000287 (View metadata)	View/Download (Download this dataset)	42	Eunis
GB000288 (View metadata)	View/Download (Download this dataset)	42	Eunis

Medium-scale EUNIS habitat maps (View layer metadata)

GUI	GB000287
Habitat	A1.3
EUNIS version	EUNIS version 2007-11
Original habitat	Sheltered, littoral stone, gravel and sediment flats with Mytilus beds, fucoids and infauna of bivalves and polychaetes





Classify all matching habitats as 'Macroalgal canopy' for new data product

