BE-AWARE II Task D: Project Resource Database

Chris Moulton

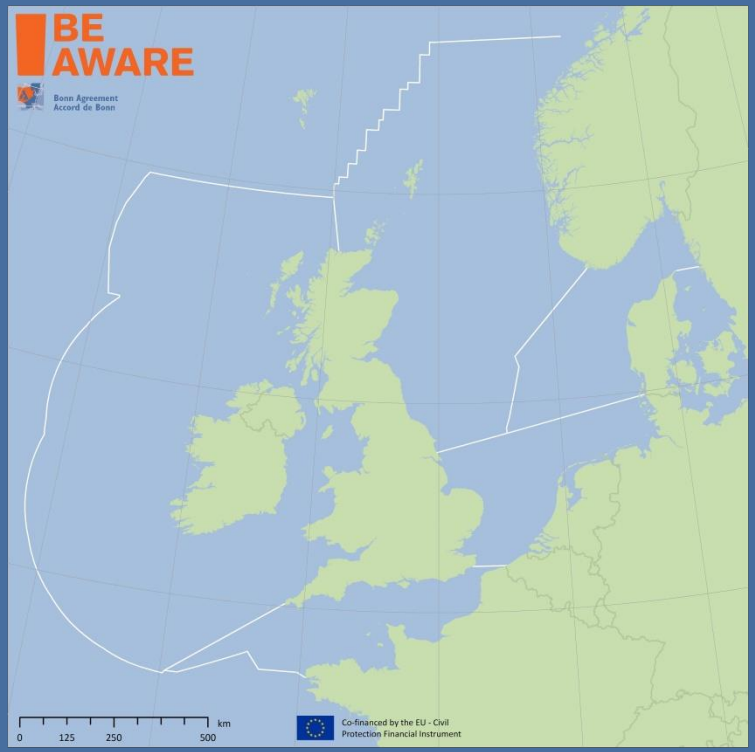
Bonn Agreement Secretariat

Project Resource Database

- Collection of data in line with the Data Request Note
- Expected results: A centrally-held database with georeferenced data, where applicable, containing the data required for the project
- Data to meet requirements for analysis at a regional scale

Data Request Note

- Project Partner Countries
  - Response capability
  - Scenario modelling
  - Selected socioeconomic features



- Bonn Agreement Secretariat & COWI
  - Habitat mapping
  - Socioeconomic sites
  - Spawning/nursery areas for fish
  - Marine mammal areas
  - Protected areas
  - Bird Areas

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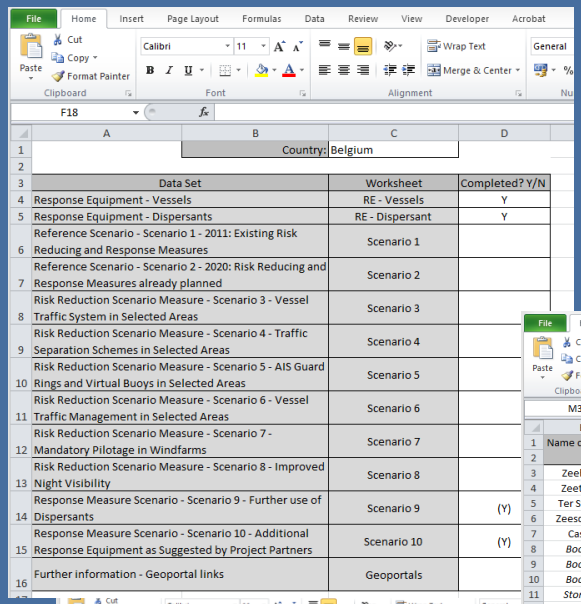
Data Request Note

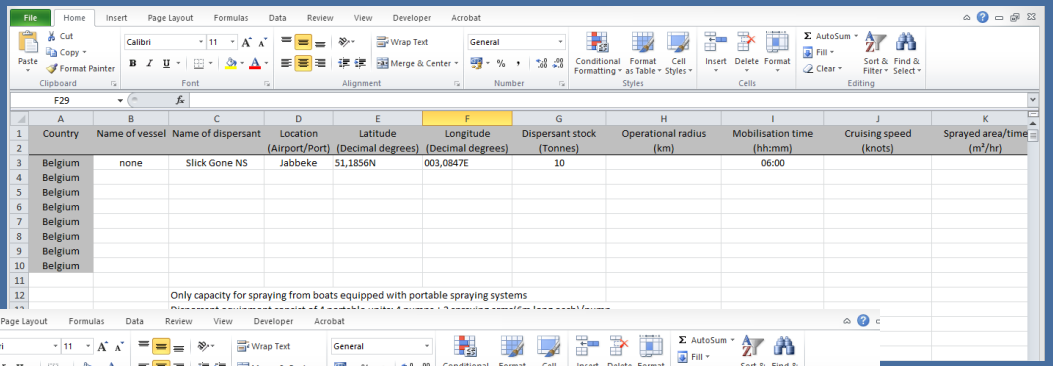
- Project Partner Countries
  - Response capability
    - Vessels
    - Dispersant
  - Scenario modelling
    - Vessel Traffic Services
    - Emergency Towing Vessels
    - Dispersants
    - Traffic Separation Scheme
    - Night Response Capabilities
    - Additional Response Vessels
  - Selected socioeconomic features
    - Shellfish/Seaweed harvesting
    - Aquaculture
    - Tourism sites
    - Coastal Facilities with water intake
    - Heritage sites

Data Request Note – Project Partners



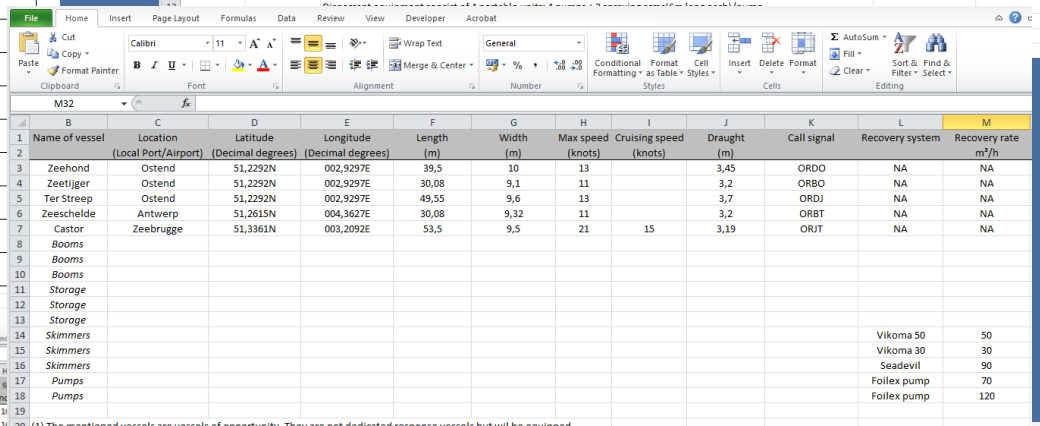
Country: Belgium

Data Set	Worksheet	Completed? Y/N
Response Equipment - Vessels	RE - Vessels	Y
Response Equipment - Dispersants	RE - Dispersant	Y
Reference Scenario - Scenario 1 - 2011: Existing Risk Reducing and Response Measures	Scenario 1	
Reference Scenario - Scenario 2 - 2020: Risk Reducing and Response Measures already planned	Scenario 2	
Risk Reduction Scenario Measure - Scenario 3 - Vessel Traffic System in Selected Areas	Scenario 3	
Risk Reduction Scenario Measure - Scenario 4 - Traffic Separation Schemes in Selected Areas	Scenario 4	
Risk Reduction Scenario Measure - Scenario 5 - AIS Guard Rings and Virtual Buoys in Selected Areas	Scenario 5	
Risk Reduction Scenario Measure - Scenario 6 - Vessel Traffic Management in Selected Areas	Scenario 6	
Risk Reduction Scenario Measure - Scenario 7 - Mandatory Pilotage in Windfarms	Scenario 7	
Risk Reduction Scenario Measure - Scenario 8 - Improved Night Visibility	Scenario 8	
Response Measure Scenario - Scenario 9 - Further use of Dispersants	Scenario 9	(Y)
Response Measure Scenario - Scenario 10 - Additional Response Equipment as Suggested by Project Partners	Scenario 10	(Y)
Further information - Geoportal links	Geoportals	



Country	Name of vessel	Name of dispersant	Location (Airport/Port)	Latitude (Decimal degrees)	Longitude (Decimal degrees)	Dispersant stock (Tonnes)	Operational radius (km)	Mobilisation time (hh:mm)	Cruising speed (knots)	Sprayed area/time (m²/hr)
Belgium	none	Slick Gone NS	Jabbeke	51,1856N	003,0847E	10		06:00		
Belgium										
Belgium										
Belgium										
Belgium										
Belgium										
Belgium										
Belgium										

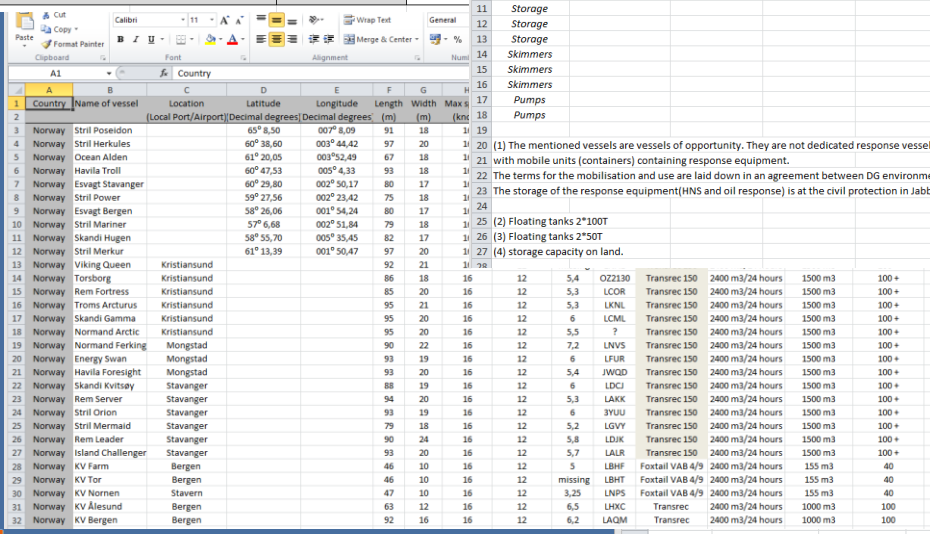
Only capacity for spraying from boats equipped with portable spraying systems



Name of vessel	Location (Local Port/Airport)	Latitude (Decimal degrees)	Longitude (Decimal degrees)	Length (m)	Width (m)	Max speed (knots)	Cruising speed (knots)	Draught (m)	Call signal	Recovery system	Recovery rate m³/h
Zeehond	Ostend	51,2292N	002,9297E	39,5	10	13		3,45	ORDO	NA	NA
Zeetijger	Ostend	51,2292N	002,9297E	30,08	9,1	11		3,2	ORBO	NA	NA
Ter Streep	Ostend	51,2292N	002,9297E	49,55	9,6	13		3,7	ORDJ	NA	NA
Zeeschelde	Antwerp	51,2615N	004,3627E	30,08	9,32	11		3,2	ORBT	NA	NA
Castor	Zeebrugge	51,3361N	003,2092E	53,5	9,5	21	15	3,19	ORJT	NA	NA
Booms											
Booms											
Booms											
Storage											
Storage											
Storage											
Skimmers										Vikoma 50	50
Skimmers										Vikoma 30	30
Skimmers										Seadevil	90
Pumps										Foilex pump	70
Pumps										Foilex pump	120

(1) The mentioned vessels are vessels of opportunity. They are not dedicated response vessels but wil be equipped with mobile units (containers) containing response equipment.
The terms for the mobilisation and use are laid down in an agreement between DG environment and DAB Vloot (Zeetijger, Zeehond, Ter Streep, Zeeschelde) and Navy (patrol vessel Castor)
The storage of the response equipment(HNS and oil response) is at the civil protection in Jabbeke who is also the key player for the transport to port.

(2) Floating tanks 2*100T
(3) Floating tanks 2*50T
(4) storage capacity on land.



Country	Name of vessel	Location (Local Port/Airport)	Latitude Decimal degrees	Longitude Decimal degrees	Length (m)	Width (m)	Max s (kn
Norway	Stril Poseidon		65° 8,50	007° 8,09	91	18	1
Norway	Stril Herkules		60° 38,60	003° 44,42	97	20	1
Norway	Ocean Alden		61° 20,05	003°52,49	67	18	1
Norway	Havila Troll		60° 47,53	005° 4,33	93	18	1
Norway	Esvagt Stavanger		60° 29,80	002° 50,17	80	17	1
Norway	Stril Power		59° 27,56	002° 23,42	75	18	1
Norway	Esvagt Bergen		58° 26,06	001° 54,24	80	17	1
Norway	Stril Mariner		57° 6,68	002° 51,84	79	18	1
Norway	Skandi Hugen		58° 55,70	005° 35,45	82	17	1
Norway	Stril Merkur		61° 13,39	001° 50,47	97	20	1
Norway	Viking Queen	Kristiansund			92	21	1
Norway	Torsborg	Kristiansund			86	18	16
Norway	Rem Fortress	Kristiansund			85	20	16
Norway	Troms Arcturus	Kristiansund			95	21	16
Norway	Skandi Gamma	Kristiansund			95	20	16
Norway	Normand Arctic	Kristiansund			95	20	16
Norway	Normand Ferking	Mongstad			90	22	16
Norway	Energy Swan	Mongstad			93	19	16
Norway	Havila Foresight	Mongstad			93	20	16
Norway	Skandi Kvitsøy	Stavanger			88	19	16
Norway	Rem Server	Stavanger			94	20	16
Norway	Stril Orion	Stavanger			93	19	16
Norway	Stril Mermaid	Stavanger			79	18	16
Norway	Rem Leader	Stavanger			90	24	16
Norway	Island Challenger	Stavanger			93	20	16
Norway	KV Farm	Bergen			46	10	16
Norway	KV Tor	Bergen			46	10	16
Norway	KV Nornen	Stavern			47	10	16
Norway	KV Ålesund	Bergen			63	12	16
Norway	KV Bergen	Bergen			92	16	16

12	5,4	OZ2130	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	5,3	LCOR	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	5,3	LKNL	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	6	LCML	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	5,5	?	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	7,2	LNVS	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	6	LFUR	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	5,4	JWQD	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	6	LDCJ	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	5,3	LAKK	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	6	3YUU	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	5,2	LGVY	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	5,8	LDJK	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	5,7	LALR	Transrec 150	2400 m3/24 hours	1500 m3	100 +		
12	5	LBHF	Foxtail VAB 4/9	2400 m3/24 hours	155 m3	40		
12	missing	LBHT	Foxtail VAB 4/9	2400 m3/24 hours	155 m3	40		
12	3,25	LNPS	Foxtail VAB 4/9	2400 m3/24 hours	155 m3	40		
12	6,5	LHXC	Transrec	2400 m3/24 hours	1000 m3	100		
12	6,2	LAQM	Transrec	2400 m3/24 hours	1000 m3	100		

D	E	F	G	H	I
Scenario name	Area name	Response effect Efficiency (0-1)	Initial investment (EUR)	Lifetime (Years)	Running costs (EUR/Year)
roved Night Visibility					
roved Night Visibility					
roved Night Visibility					
roved Night Visibility					
roved Night Visibility					
roved Night Visibility					
roved Night Visibility					
roved Night Visibility					

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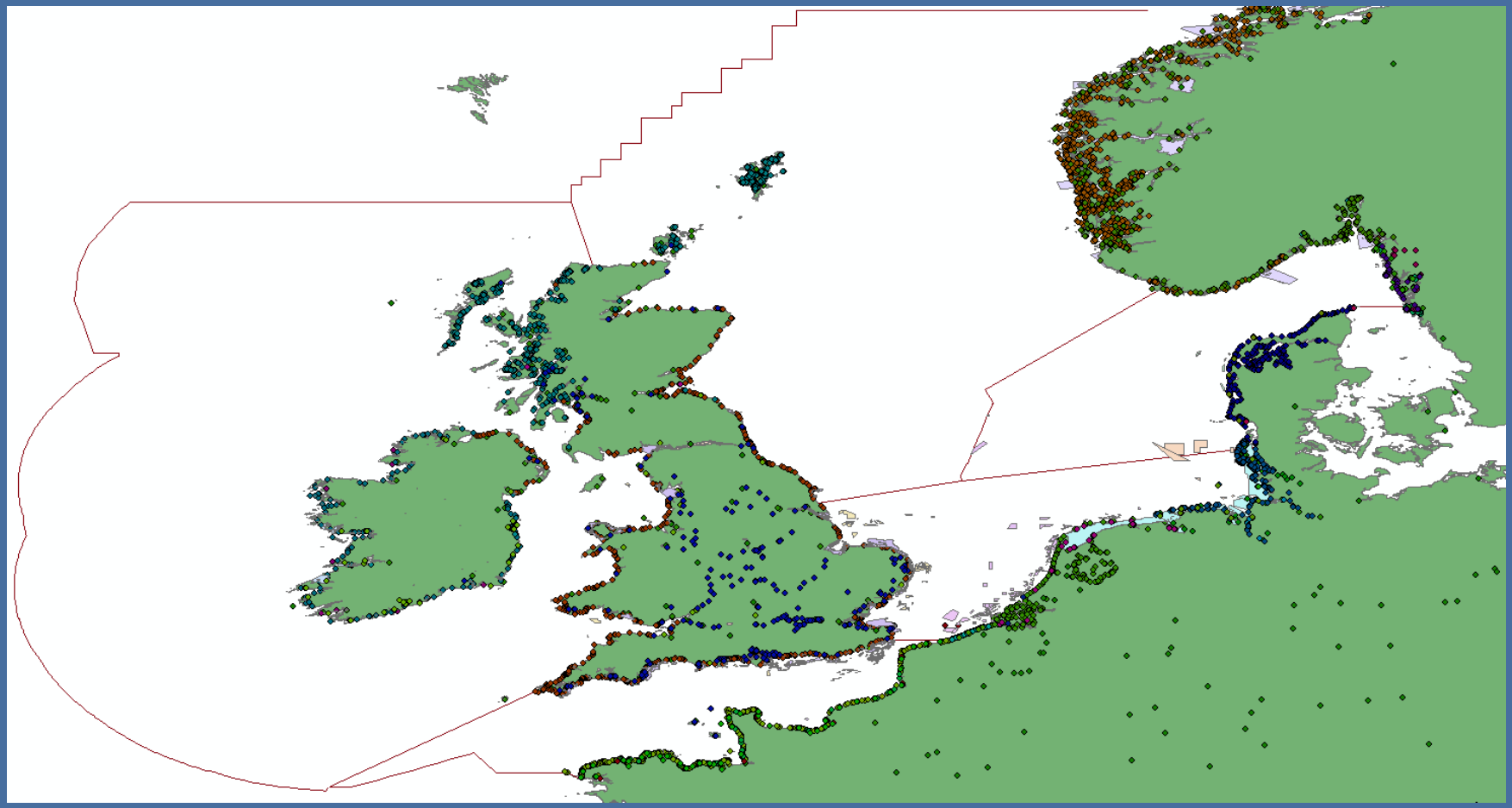
Selected Socioeconomic features



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Habitat mapping

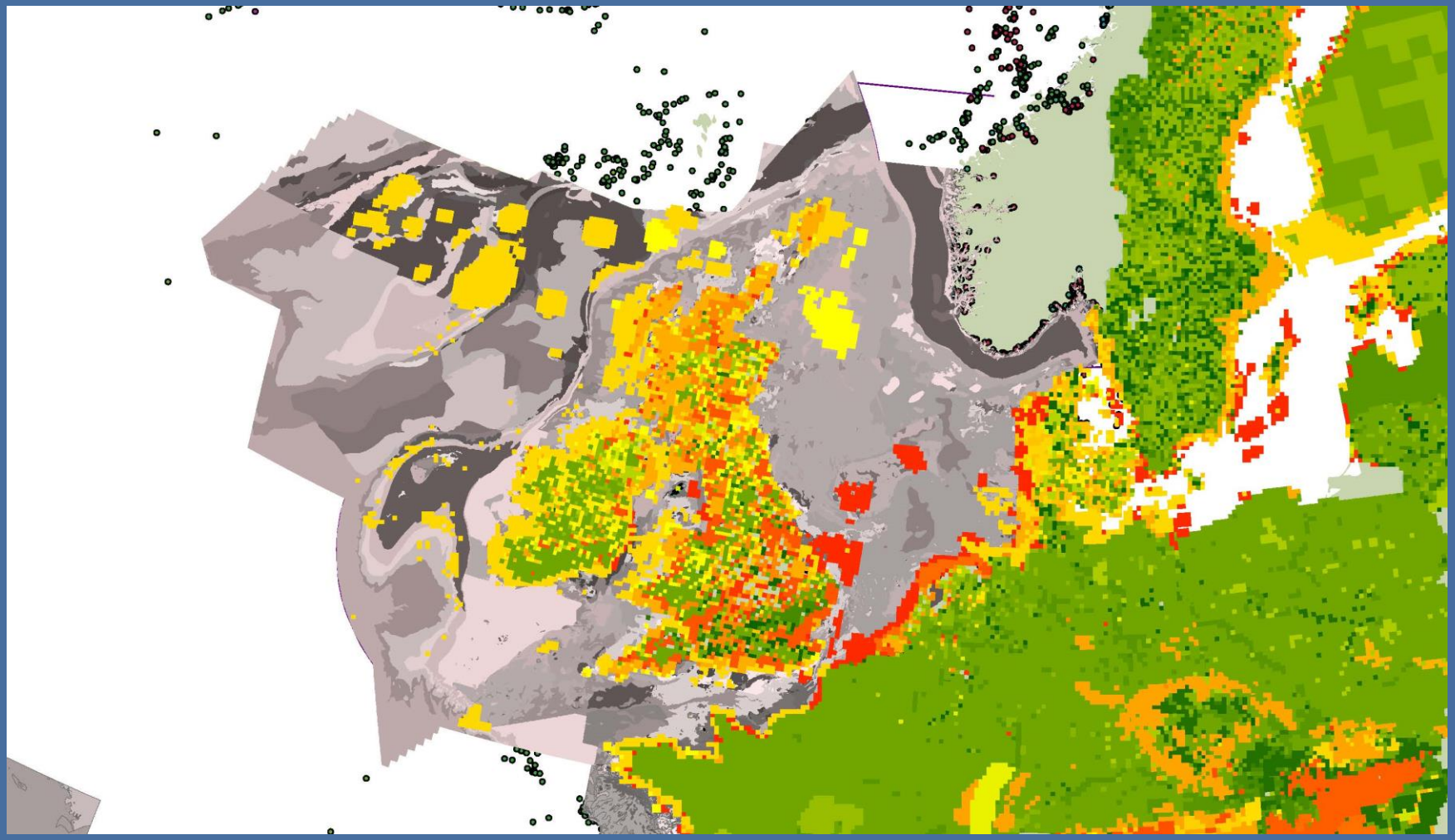
Shoreline and Coastal Habitats
- Exposed rocky shores and reefs
- Sheltered rocky shores and reefs
- Littoral chalk communities
- Sandy beaches
- Shingle beaches
- Muddy beaches
- Tidal sand and mud flats
- Salt marshes
- Estuaries
- Large shallow inlets and bays
- Coastal lagoons (open to the sea)
- Underwater sandbanks
- Biogenic reefs
- Maerl beds
- Seagrass beds

Open Sea Habitats
- Open water (<20m)
- Deep sea floor (>20m)
- Deep sea water column (>20m)
- Seamounts
- Coral gardens and sponge aggregations
- Carbonate mounds
- Lophelia pertusa reefs
- Sea-pen and burrowing megafauna

Habitat data sources

- EEA (Article 17 – Habitat Distribution)
- EUROSION (European initiative for sustainable coastal erosion management)
- EMODnet
  - JNCC (Joint Nature Conservation Committee) (EU / UK Seamap)
  - MESH (Mapping European Seabed Habitats)
  - OSPAR

Habitat data



Bird areas

- Important breeding areas (including offshore feeding areas around breeding colonies)
- Important moulting areas
- Important staging areas for birds
- Included species:

- Red throated Diver (Gavia stellata)
- Great Northern Diver (Gavia immer)
- Red-necked Grebe (Podiceps grisegena)
- Shag (Phalacrocorax aristotelis)
- Gannet (Morus bassanus)
- Common eider (Somateria mollissima)
- Velvet scoter (Melanitta fusca)
- Red-breasted Merganser (Mergus serrator)
- Great Skua (Catharacta skua)
- Common Gull (Larus canus)
- Herring Gull (Larus argentatus)
- Kittiwake (Rissa tridactyla)
- Common tern (Sterna hirundo)
- Razorbill (Alca torda)
- Little auk (Alle alle)

Black-throated Diver (Gavia arctica)
Great Crested Grebe (Podiceps cristatus)
Cormorant (Phalacrocorax carbo)
Fulmar (Fulmarus glacialis)
Scaup (Aythya marila)
Common scoter (Melanitta nigra)
Goldeneye (Bucephala clangula)
Goosander (Mergus merganser)
Little gull (Larus minutus)
Lesser Black-backed Gull (Larus fuscus)
Great Black-backed Gull (Larus marinus)
Sandwich tern (Sterna sandvicensis)
Guillemot (Uria aalge)
Black Guillemot (Cepphus grylle)
Puffin (Fratercula arctica)

Bird area data sources

- BirdLife Interational
- BTO (British Trust for Ornithology)
- JNCC
- OBIS (Ocean Biogeographic Information System)
- Contracting Parties

Bird areas

Layers
BA_Subregion_Boundary
BirdLife International
Alca_torda_22694852
Alle_alle_22694837
Aythya_marila_22680398
Bucephala_clangula_22680455
Catharacta_skua_22694160
Cepphus_grylle_22694861
Fratercula_arctica_22694927
Fulmarus_glacialis_22697866
Gavia_arctica_22697834
Gavia_immer_22697842
Gavia_stellata_22697829
Hydrocoloeus_minutus_22694469
Larus_argentatus_62030608
Larus_canus_22694308
Larus_fuscus_22694373
Larus_marinus_22694324
Melanitta_nigra_22724879
Mergus_merganser_22680492
Mergus_serrator_22680485
Phalacrocorax_carbo_22696792
Podiceps_cristatus_22696602
Rissa_tridactyla_22694497
Somateria_mollissima_22680405
Sterna_hirundo_22694623
Thalasseus_sandvicensis_22694591
BTO
026Melanitta fusca
027Bucephala clangula
028Mergus serrator
029Mergus merganser
030Gavia stellata Breeding
031Gavia stellata Nonbreeding
Resident
Breeding season
Non-breeding season
Passage
Seasonal occurance uncertain

Marine mammal areas

- Coastal feeding grounds for otters
- Breeding, moulting and haul-out sites for Harbour and Grey Seals

Marine mammal areas data sources

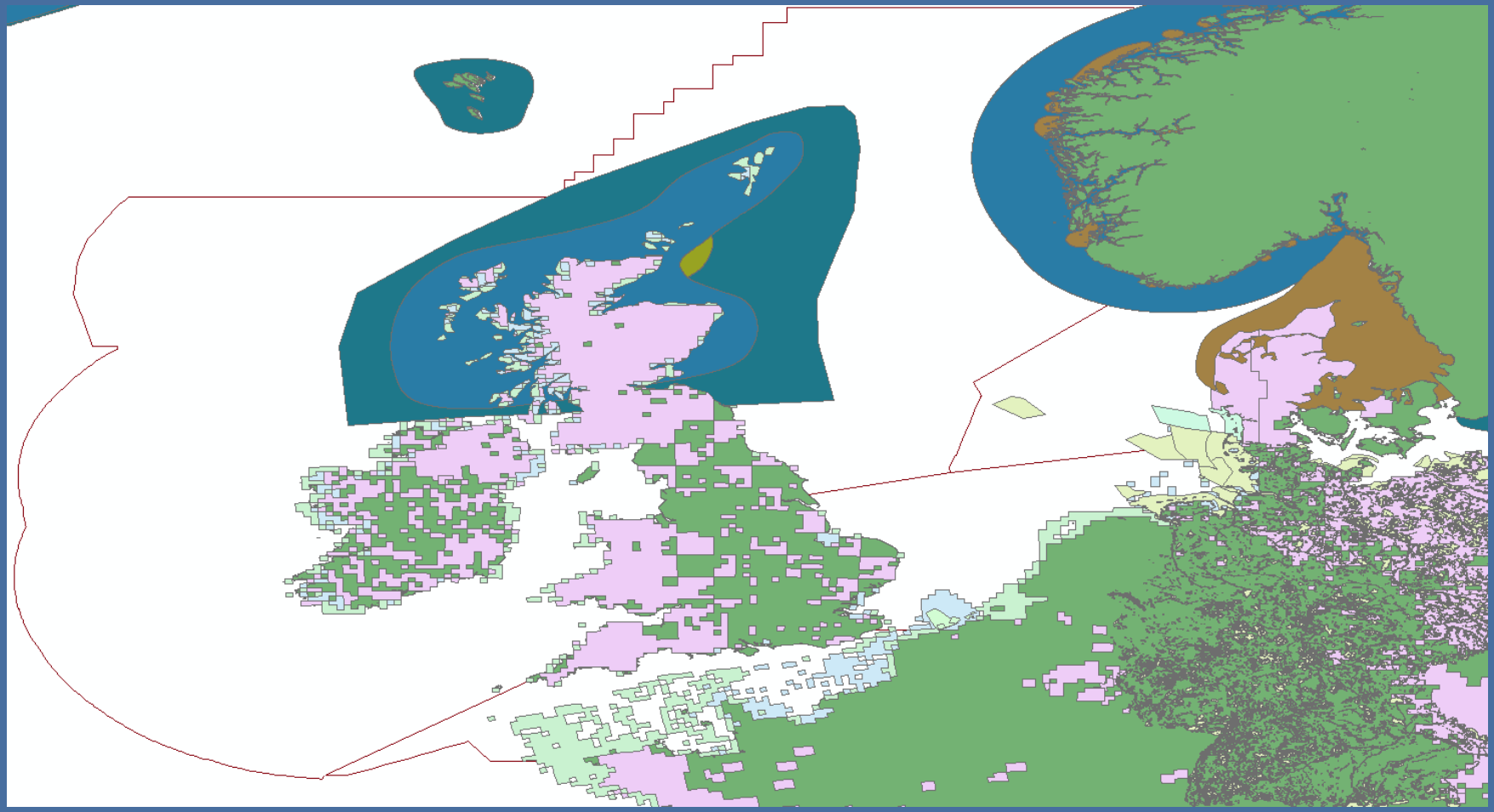
- EEA
- EurOBIS (European Ocean Biogeographic Information System)
- JNCC
- Norway
- OBIS-SEAMAP (Ocean Biogeographic Information System Spatial Ecological Analysis of Megavertebrate Populations)
- SMRU (Sea Mammal Research Unit)

Sea Mammal Research Unit

OBIS SEAMAP

EurOBIS

Marine mammal areas



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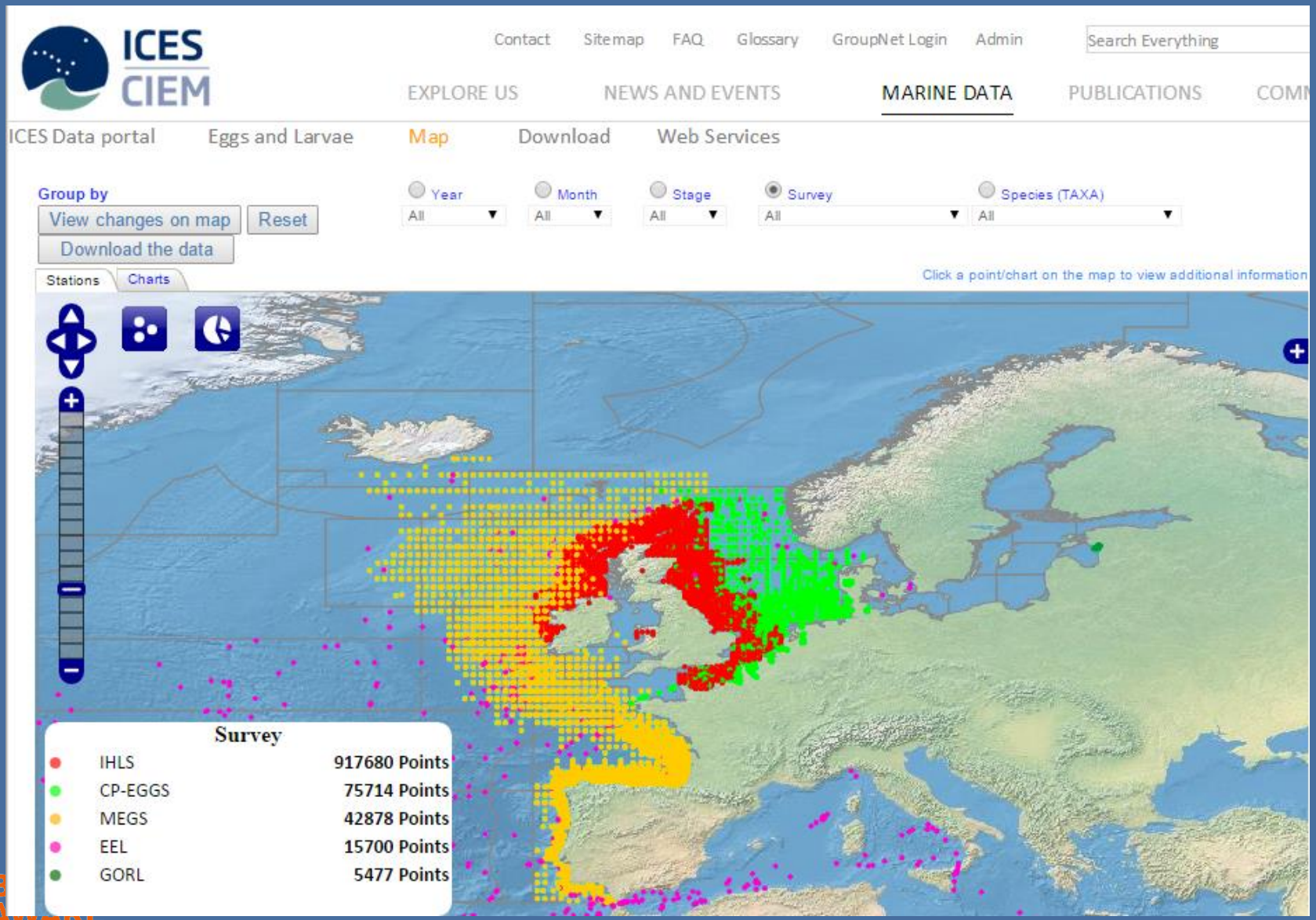
Spawning/Nursery areas for fish

- Herring (Clupea harengus)
- Sprat (Sprattus sprattus)
- Cod (Gadus morhua)
- Saithe (Pollachius virens)
- Sandeels (Ammodytes marinus)
- Whiting (Merlangius merlangus)
- Norway pout (Trisopterus esmarkii)
- Horse mackerel (Trachurus trachurus)
- Blue whiting (Micromesistius poutassou)
- European hake (Merlucchius merlucchius)
- Sole (Solea sole)
- Mackerel (Scomber scombrus)
- Haddock (Melanogrammus aeglefinus)
- Plaice (Pleuronectes platessa)

Fish spawning and nursery areas data sources

- ICES (International Council for the Exploration of the Sea)

Spawning/Nursery areas for fish



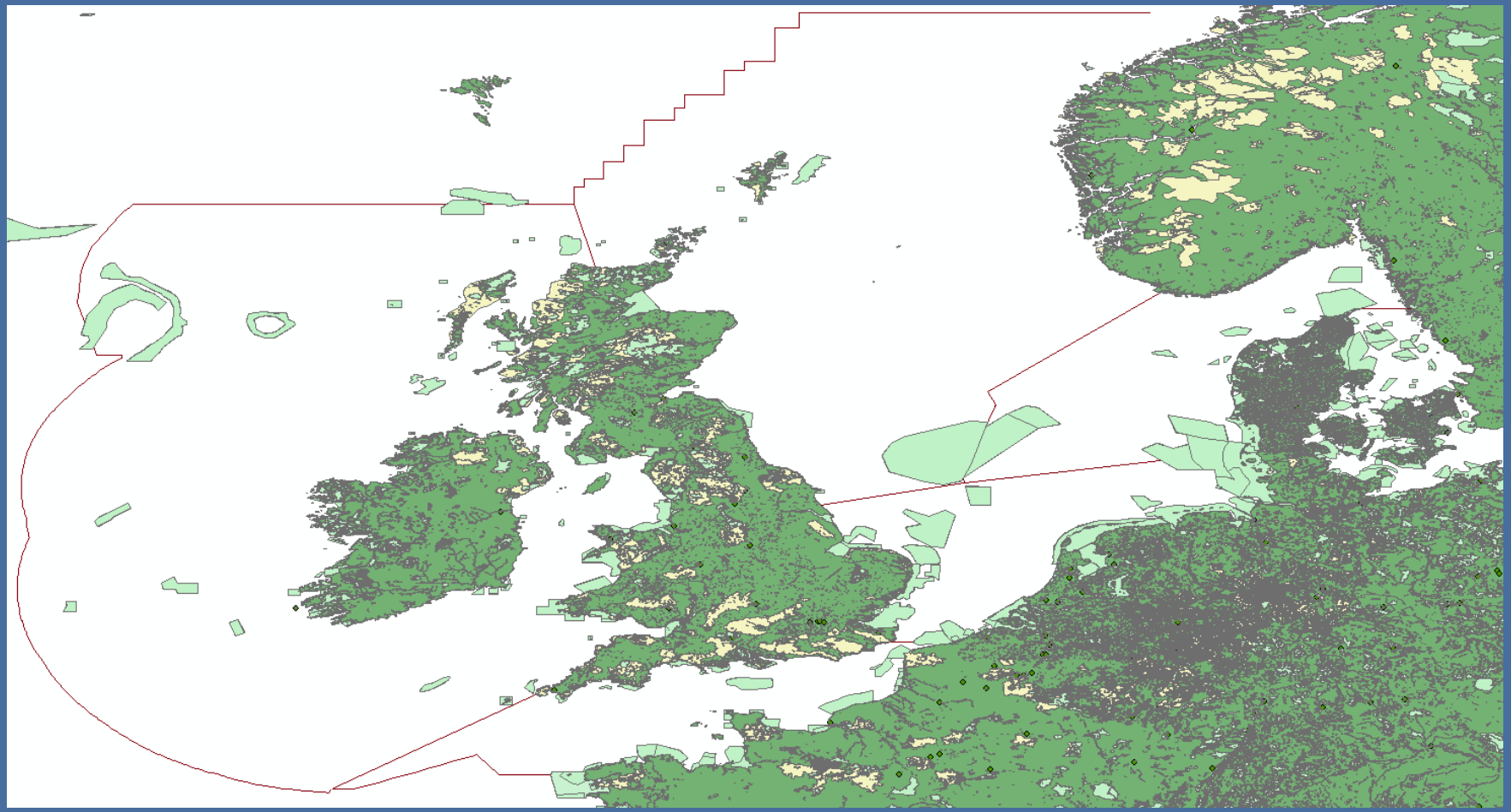
Protected areas

- EC and Birds Directive sites (SACs and SPAs, Natura 2000)
- RAMSAR Convention sites
- OSPAR Convention sites

Protected areas data sources

- EEA
- Norway
- OSPAR
- Protected Planet
- Ramsar (Convention on Wetlands of International Importance)
- UNESCO

Protected Areas



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Socioeconomic Features

Location of:

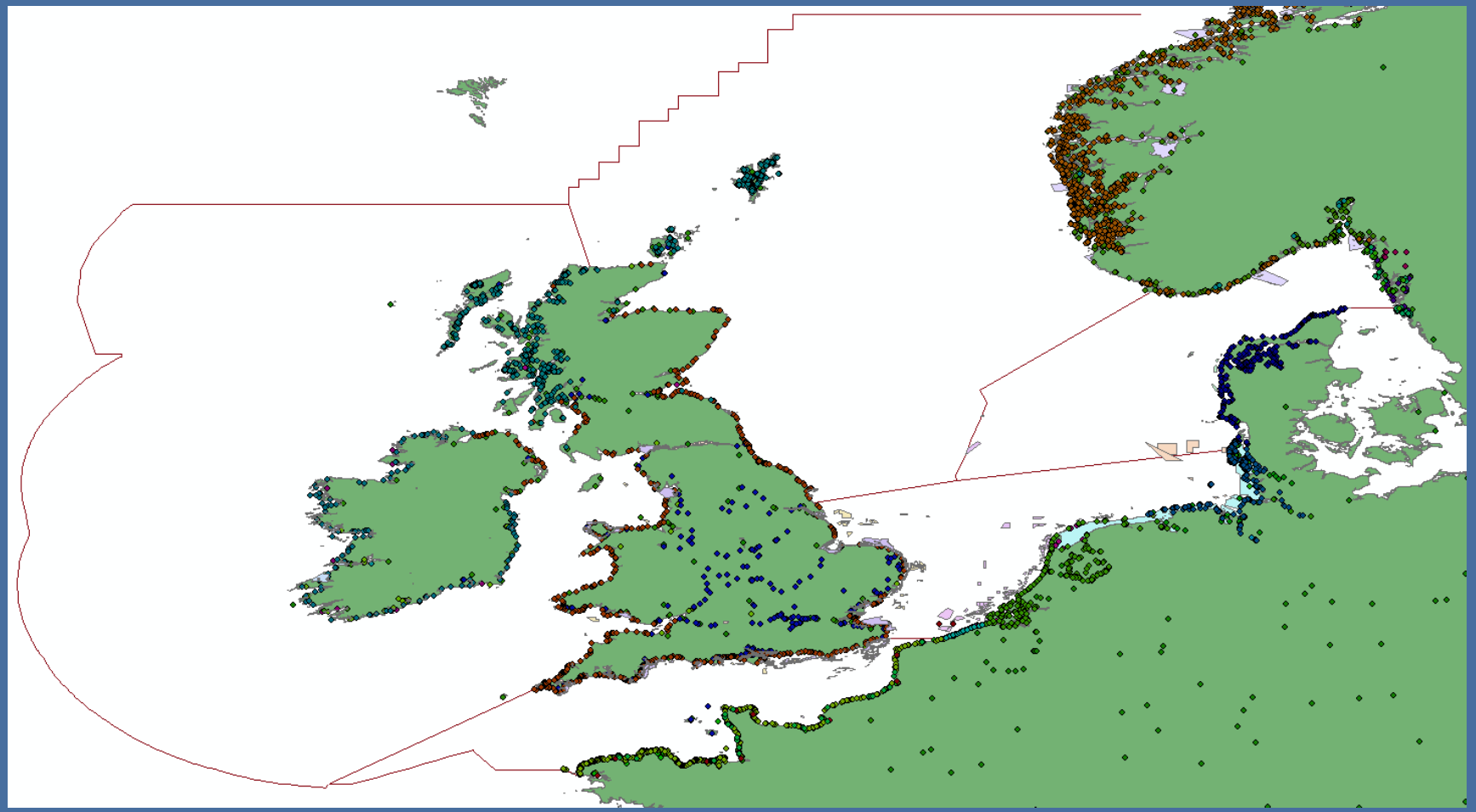
- Ports
- Fishing harbours
- Tourism activity
- Densely populated town and communities
- Offshore fisheries and coastal fisheries, Aquaculture, Shellfish/Seaweed harvesting

- Cruise liner stops
- Mineral extraction areas
- Wind farms

Socioeconomic features data sources

- NGI (National Geospatial-Intelligence Agency)
- Contracting Parties

Socioeconomic Features



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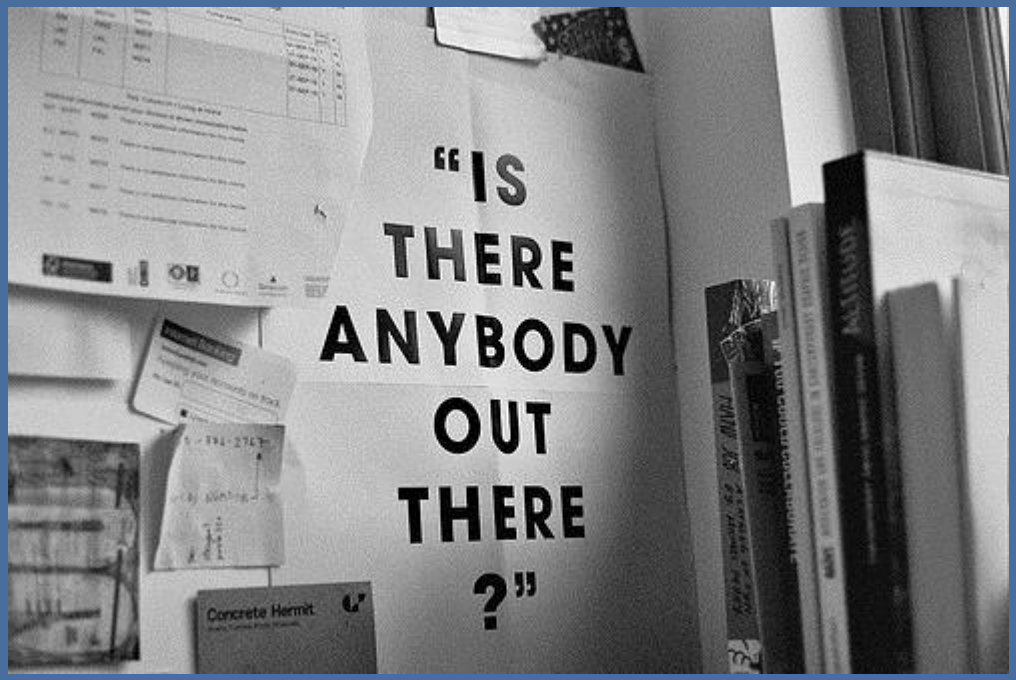
Case Studies

- Data was not always available to respond to the data request note



Case Study 1 – Shoreline Classification

- Shoreline Classification – Habitat Mapping

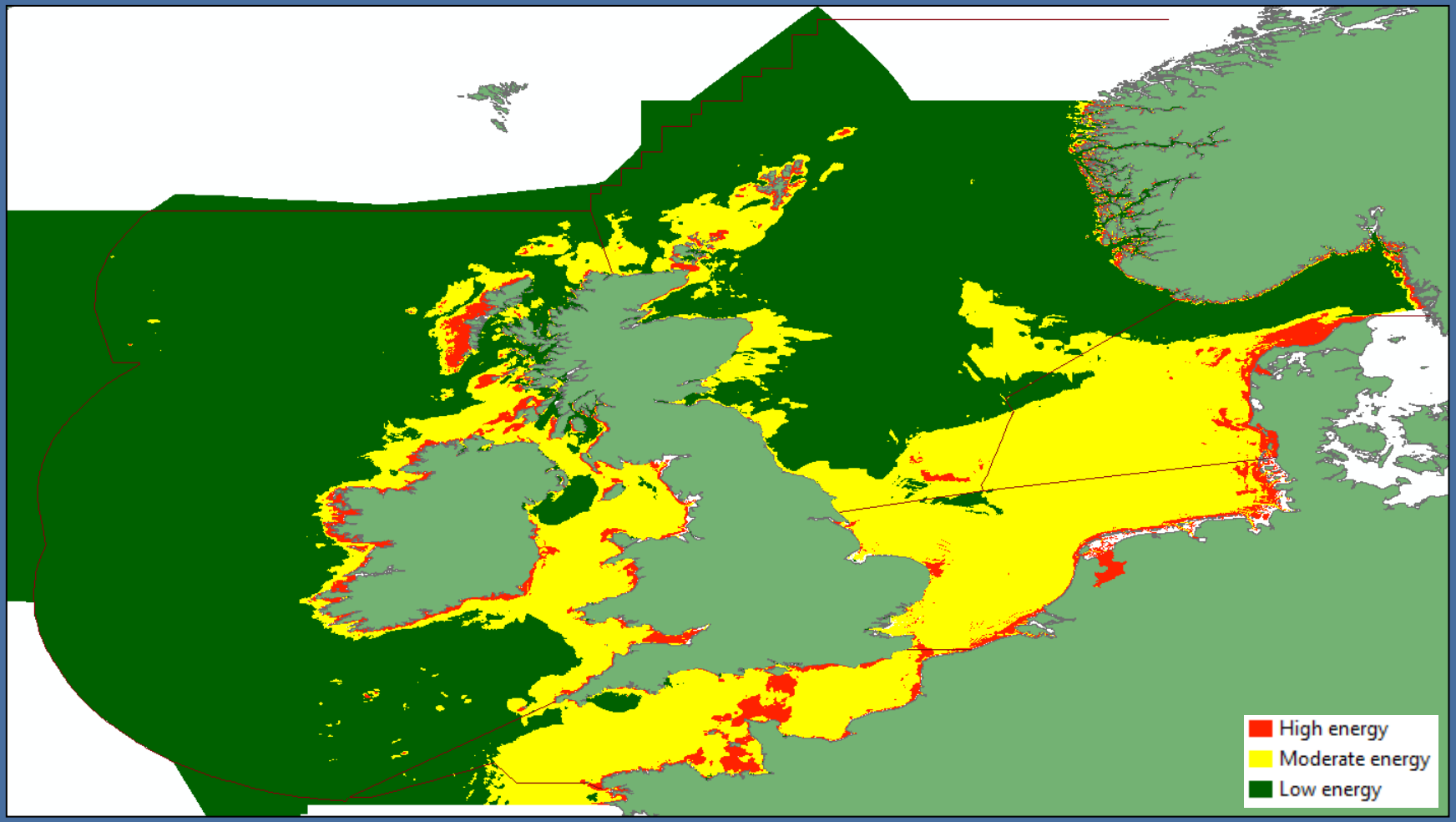
"Shoreline and Coastal Habitats

- Exposed rocky shores and reefs

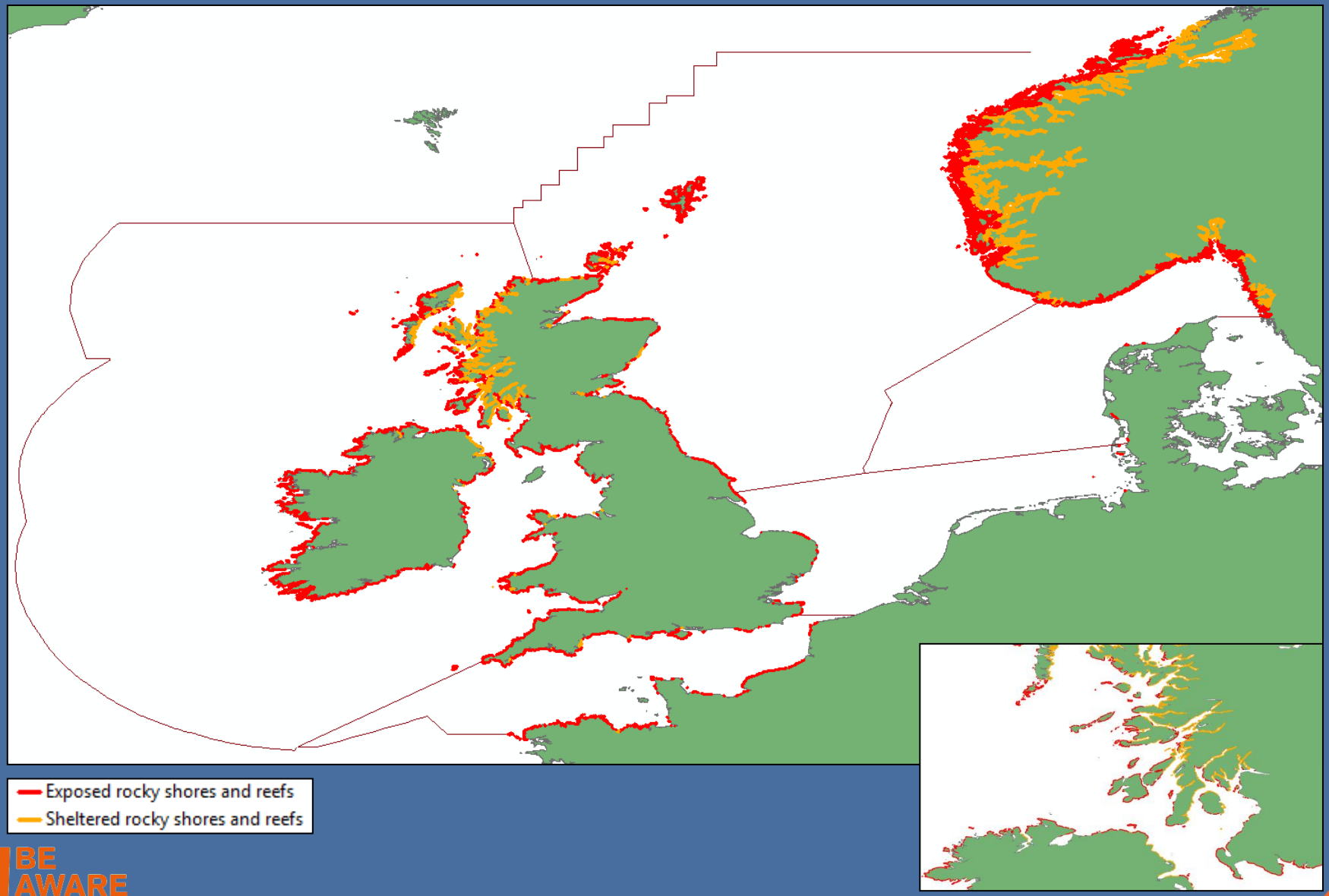
- Sheltered rocky shores and reefs"

- ...wave exposure, habitat and species data...were used to identify numeric boundaries in the seabed kinetic wave energy layer which were equivalent to the energy classes used in the EUNIS habitat classification. EUNIS splits infralittoral and circalittoral rock into three energy classes: high, moderate and low.

Case Study 1 – Shoreline Classification



Case Study 1 – Shoreline Classification



Case Study 2 - Habitat Mapping

- Habitat Mapping
  - Complete regional overview
  - Multiple sources
  - Different resolutions
  - Varying geometry

EMODnet
European Marine Observation and Data Network

European Environment Agency

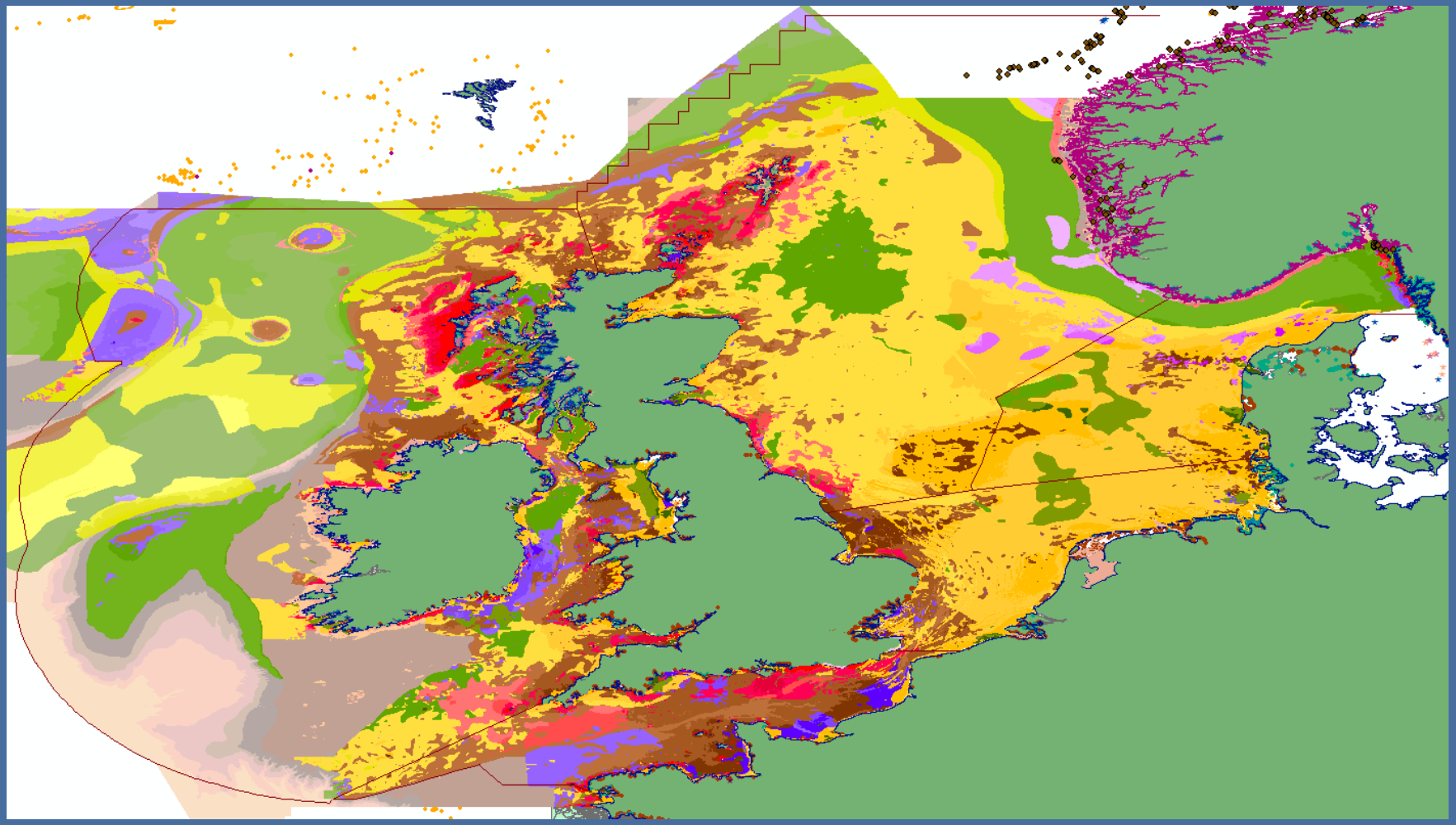
OSPAR COMMISSION
Protecting and conserving the North-East Atlantic and its resources

eurosion

MESH
MESH ATLANTIC

JNCC
Joint Nature Conservation Committee

Case Study 2 - Habitat Mapping



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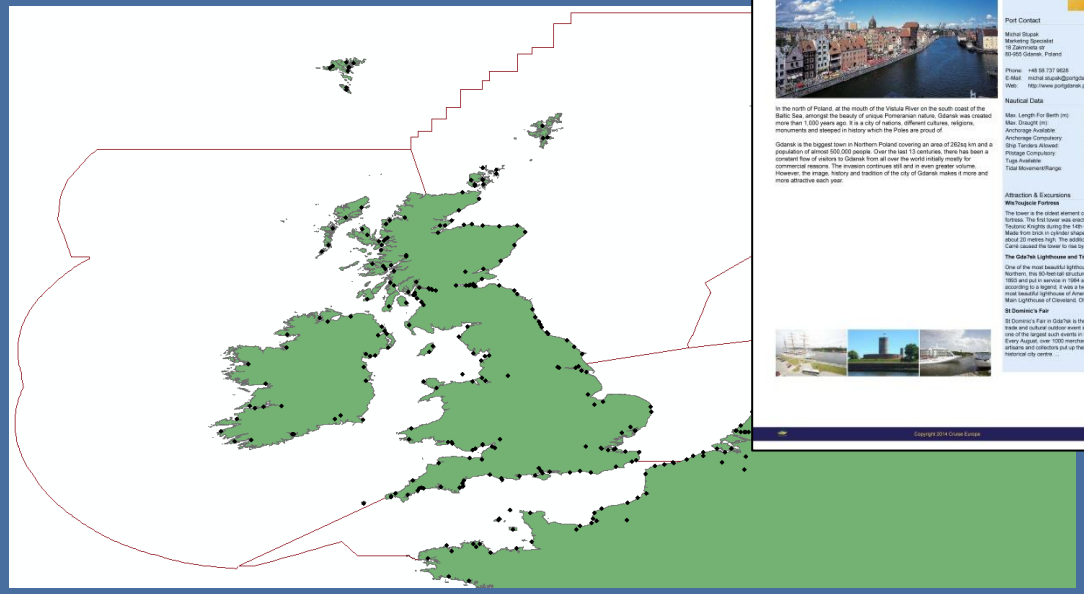
Case Study 3 - Cruise Ports

- Amalgam of multiple data sources

World port index



Cruise Europe

Cruise Destinations Norway

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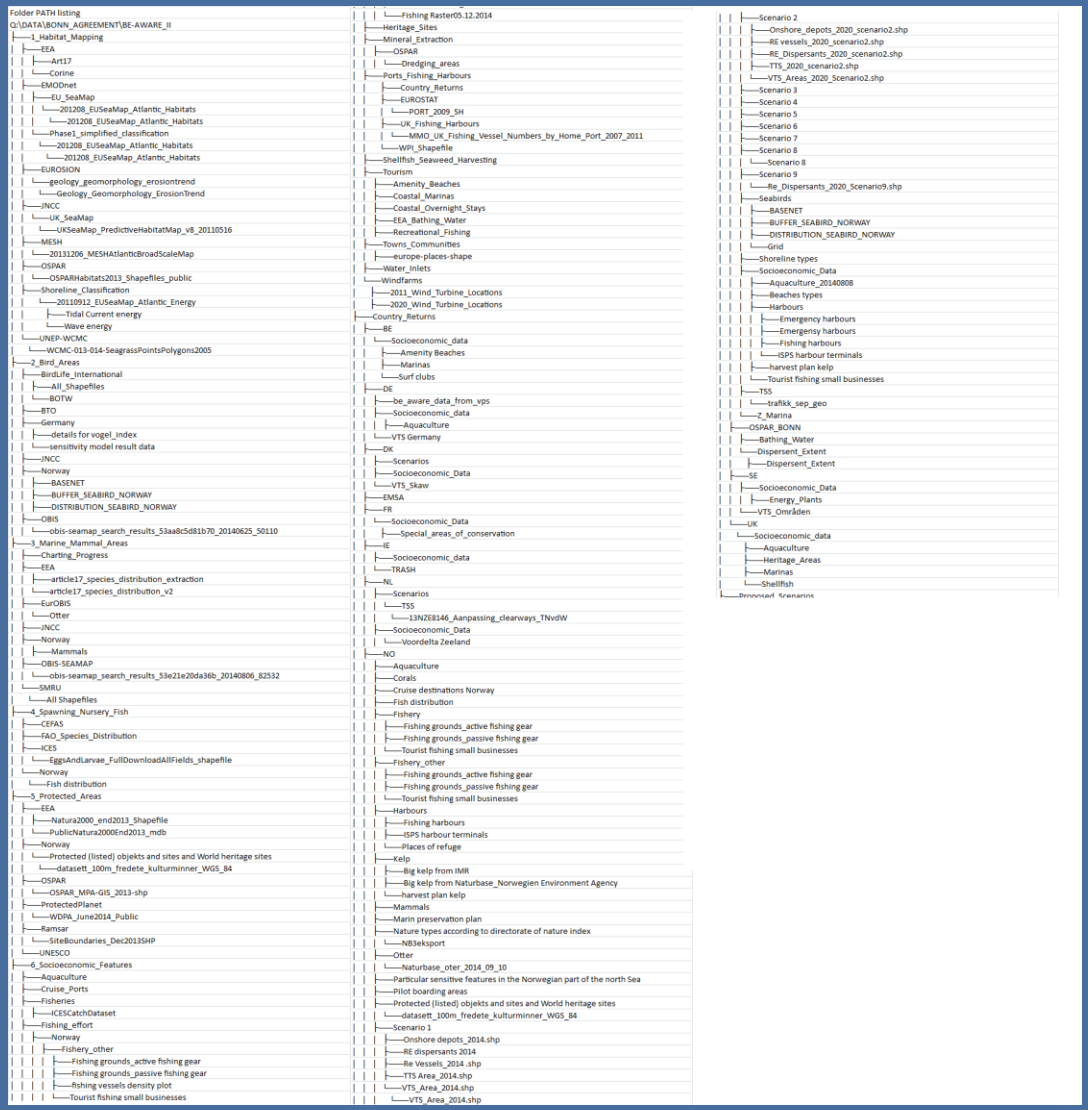
Applied lessons from BE-AWARE I

- Strict reporting formats
- Allow more time
- Iterative development
- Data compilation where possible
- Maintenance of data sourcing

Final Project Resource Database



```
Folder PATH listing
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├──1_Habitat_Mapping
│  ├──EEA
│  │  ├──Art17
│  │  └──Corine
│  ├──EMODnet
│  │  ├──EU_SeaMap
│  │  │  └──201208_EUSeaMap_Atlantic_Habitats
│  │  │     └──201208_EUSeaMap_Atlantic_Habitats
│  │  └──Phase1_simplified_classification
│  │     └──201208_EUSeaMap_Atlantic_Habitats
│  │        └──201208_EUSeaMap_Atlantic_Habitats
│  ├──EUROSION
│  │  └──geology_geomorphology_erosiontrend
│  │     └──Geology_Geomorphology_ErosionTrend
│  ├──JNCC
│  │  └──UK_SeaMap
│  │     └──UKSeaMap_PredictiveHabitatMap_v8_20110516
│  ├──MESH
│  │  └──20131206_MESHAtlanticBroadScaleMap
│  ├──OSPAR
│  │  └──OSPARHabitats2013_Shapefiles_public
│  ├──Shoreline_Classification
│  │  └──20110912_EUSeaMap_Atlantic_Energy
│  │     ├──Tidal Current energy
│  │     └──Wave energy
│  └──UNEP-WCMC
│     └──WCMC-013-014-SeagrassPointsPolygons2005
├──2_Bird_Areas
│  ├──BirdLife_International
│  │  ├──All_Shapefiles
│  │  └──BOTW
│  ├──BTO
│  ├──Germany
│  │  ├──details for vogel_index
│  │  └──sensitivity model result data
│  ├──JNCC
│  ├──Norway
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├──4_Spawning_Nursery_Fish
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│  ├──FAO_Species_Distribution
│  ├──ICES
│  │  └──EggsAndLarvae_FullDownloadAllFields_shapefile
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│  │  └──WDPA_June2014_Public
│  ├──Ramsar
│  │  └──SiteBoundaries_Dec2013SHP
│  └──UNESCO
├──6_Socioeconomic_Features
│  ├──Aquaculture
│  ├──Cruise_Ports
│  ├──Fisheries
│  │  ├──ICESCatchDataset
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│  │  │  │  ├──Fishing grounds_passive fishing gear
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│  ├──Mineral_Extraction
│  │  ├──OSPAR
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│  │  ├──EUROSTAT
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│  ├──Water_Inlets
│  └──Windfarms
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│  │  │  └──harvest plan kelp
│  │  ├──Mammals
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│  │  ├──Scenario 2
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│  │  │  └──VTS_Areas_2020_Scenario2.shp
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│  │  ├──Scenario 4
│  │  ├──Scenario 5
│  │  ├──Scenario 6
│  │  ├──Scenario 7
│  │  ├──Scenario 8
│  │  │  └──Scenario 8
│  │  ├──Scenario 9
│  │  │  └──Re_Dispersants_2020_Scenario9.shp
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│  │  │  └──trafikk_sep_geo
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│        └──Shellfish
└──Proposed_Scenarios
```

Questions?