

EMODnet-Geology

4th EMODnet Steering Committee, JRC, Ispra, Italy. 1-2 July 2015

Alan Stevenson, Jonathan Lowndes (British Geological Survey) and the project team



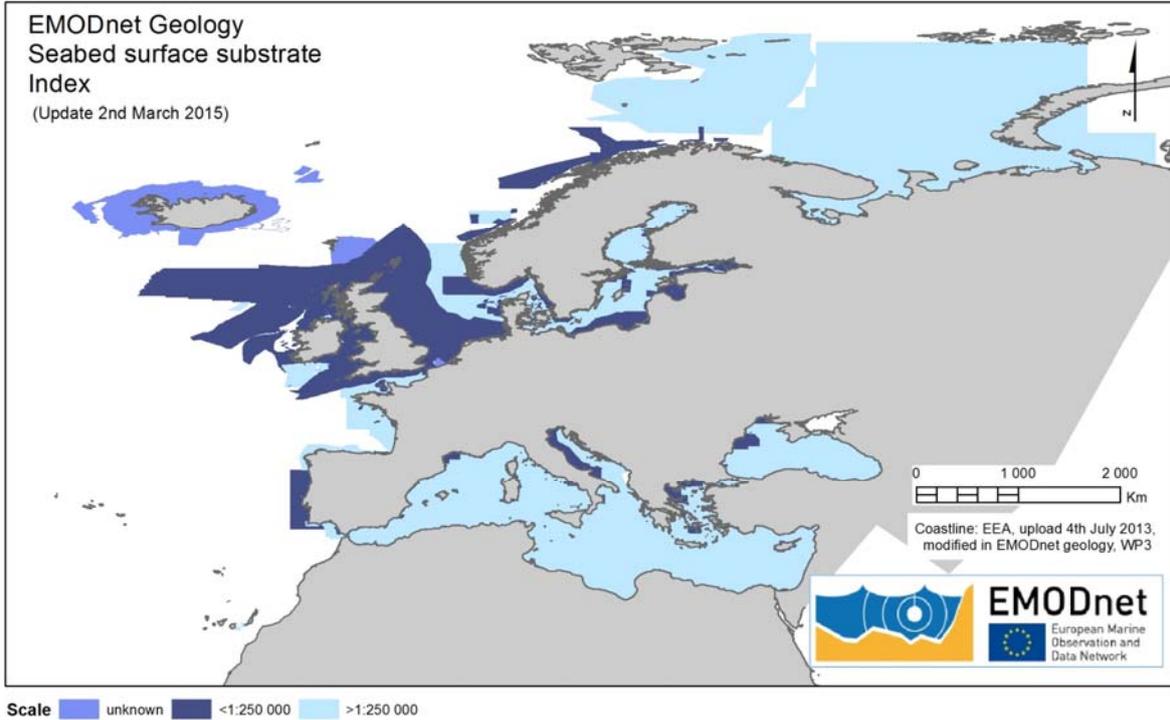
EMODnet

Workpackages

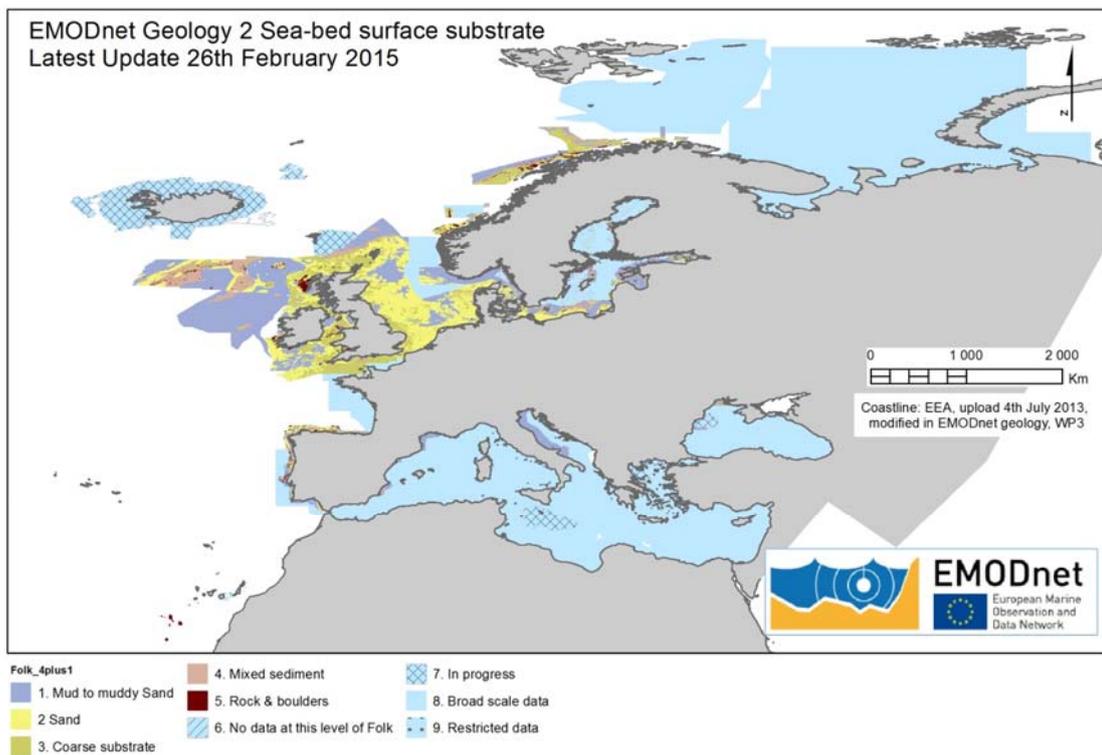
- WP1. Project Management
- WP2. Geological data specification and sourcing
- WP3. Sea-bed substrate. Led by GTK, Finland. Includes case study led by CEFAS, UK)
- WP4. Sea-floor geology. Led by BGR, Germany
- WP5. Coastal behaviour. Led by TNO, The Netherlands
- WP6. Geological events and probabilities. Led by ISPRA, Italy
- WP7. Minerals. Led by GSI, Ireland
- WP8. Web services and technology. Construction phase October 2013-October 2014
- WP9. Dissemination.
- WP10. Liaison with EMODnet lots and other related groups/projects.
- WP11. Project analysis and sustainability



EMODnet WP3. Seabed substrate

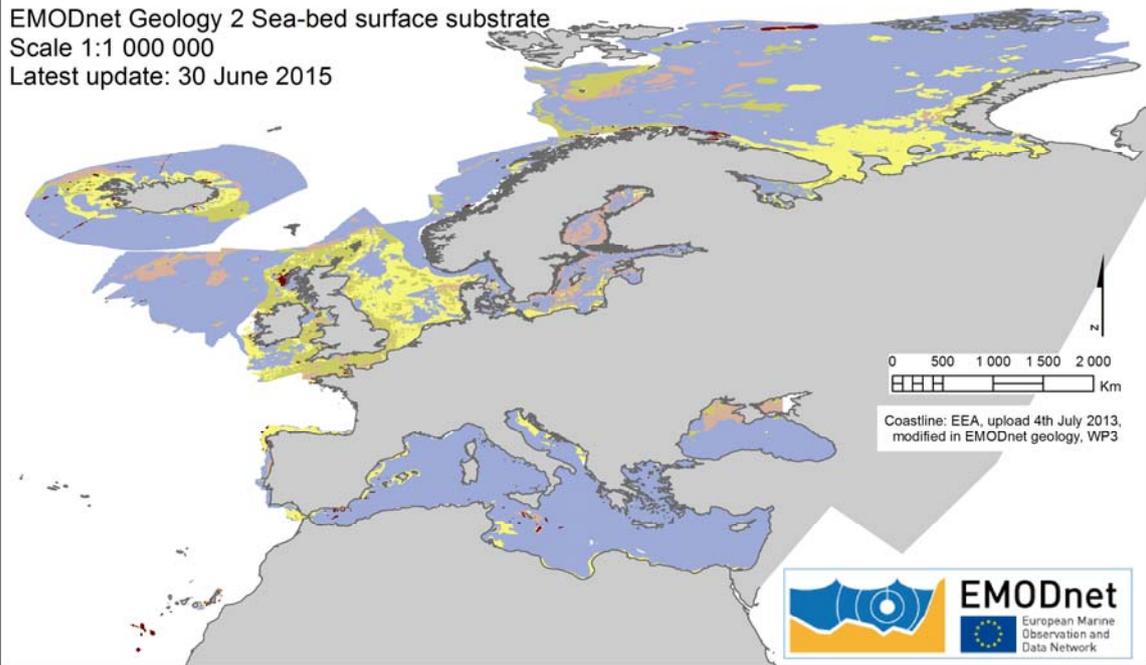


EMODnet 1:250,000 information (19%)





EMODnet Geology 2 Sea-bed surface substrate
 Scale 1:1 000 000
 Latest update: 30 June 2015

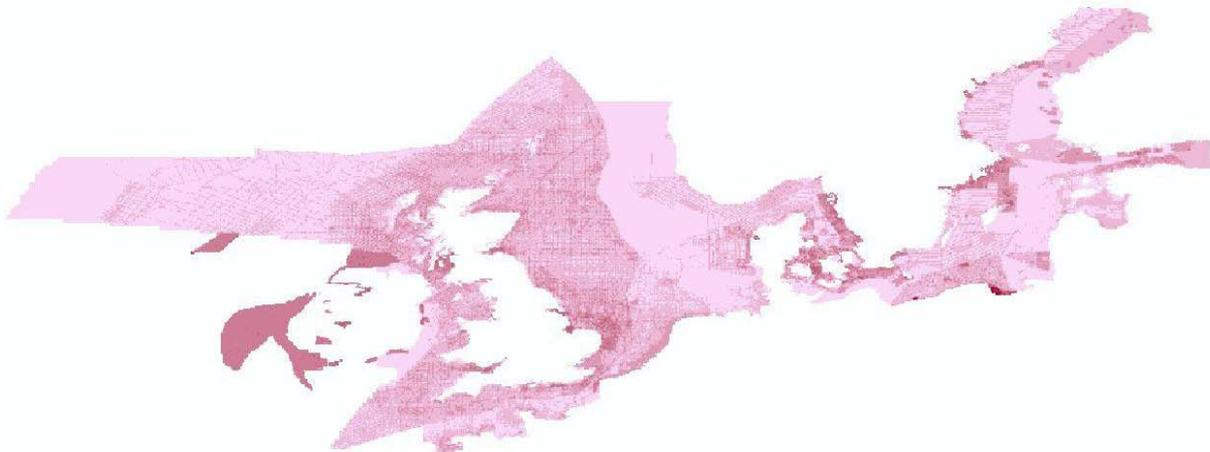


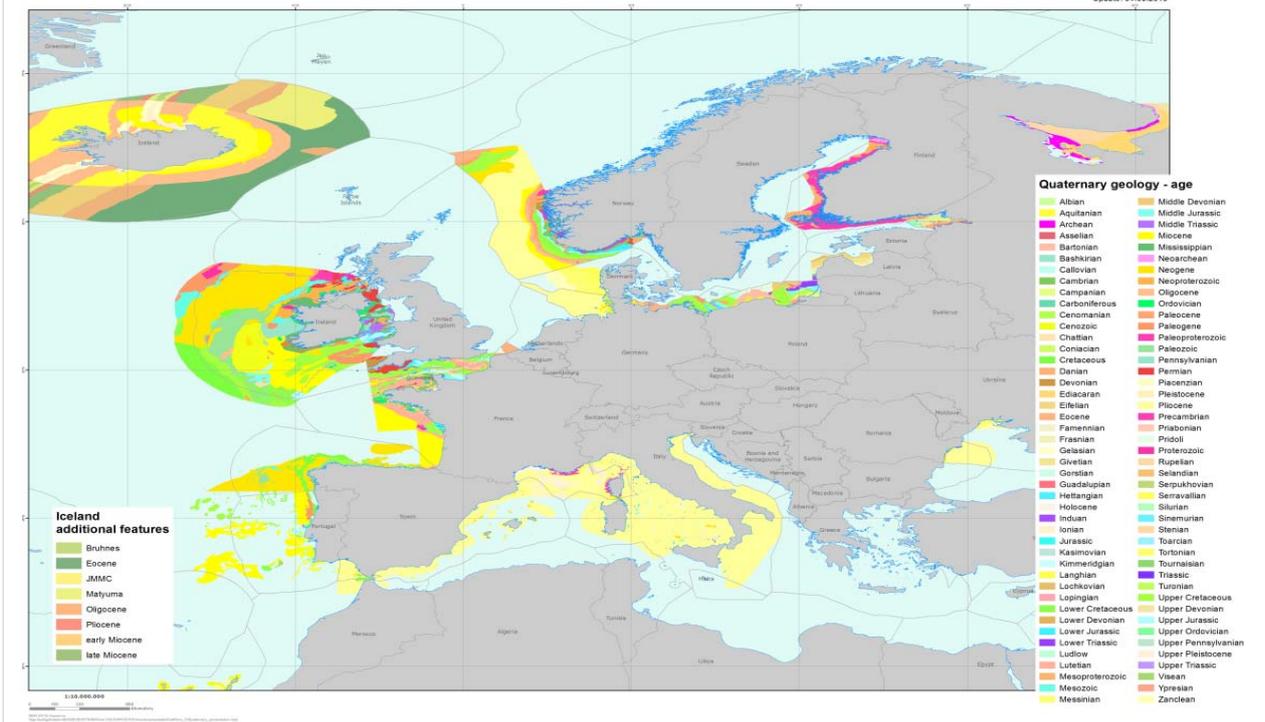
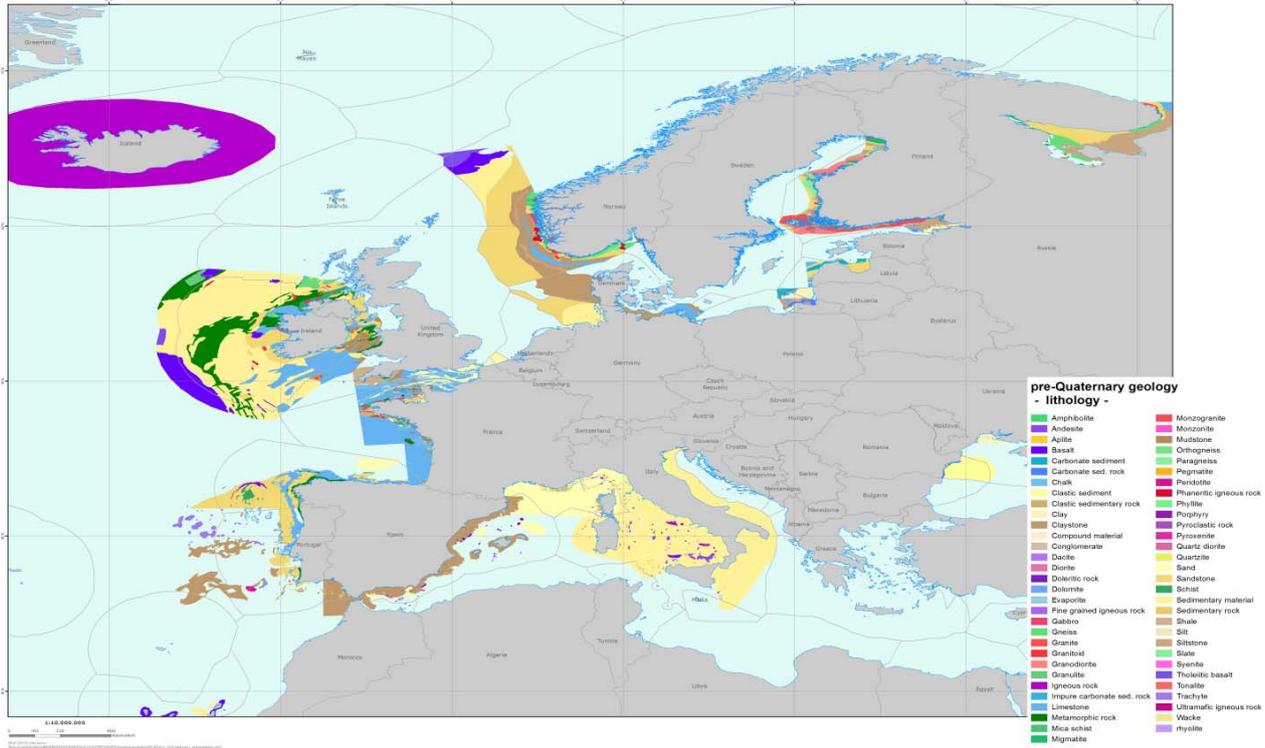
Folk substrates

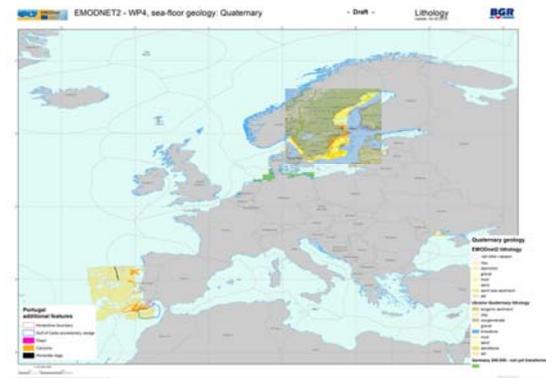
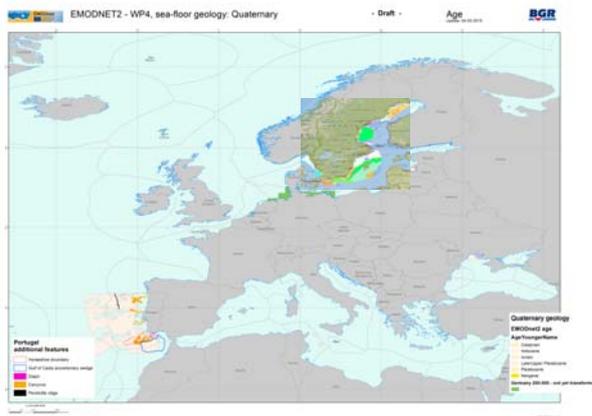
- | | |
|----------------------|----------------------------------|
| 1. Mud to muddy Sand | 4. Mixed sediment |
| 2. Sand | 5. Rock & boulders |
| 3. Coarse substrate | 6. No data at this level of Folk |

Datasets (30.6. 2015) in "display" order

- 1 M data from Partners
- Generalized EMODnet data 1:250 000 (Code: EU-006)
- urEMODnet data, Mediterranean (Code: EU-002)
- & Black Sea from HCMR (Code: EU-003)



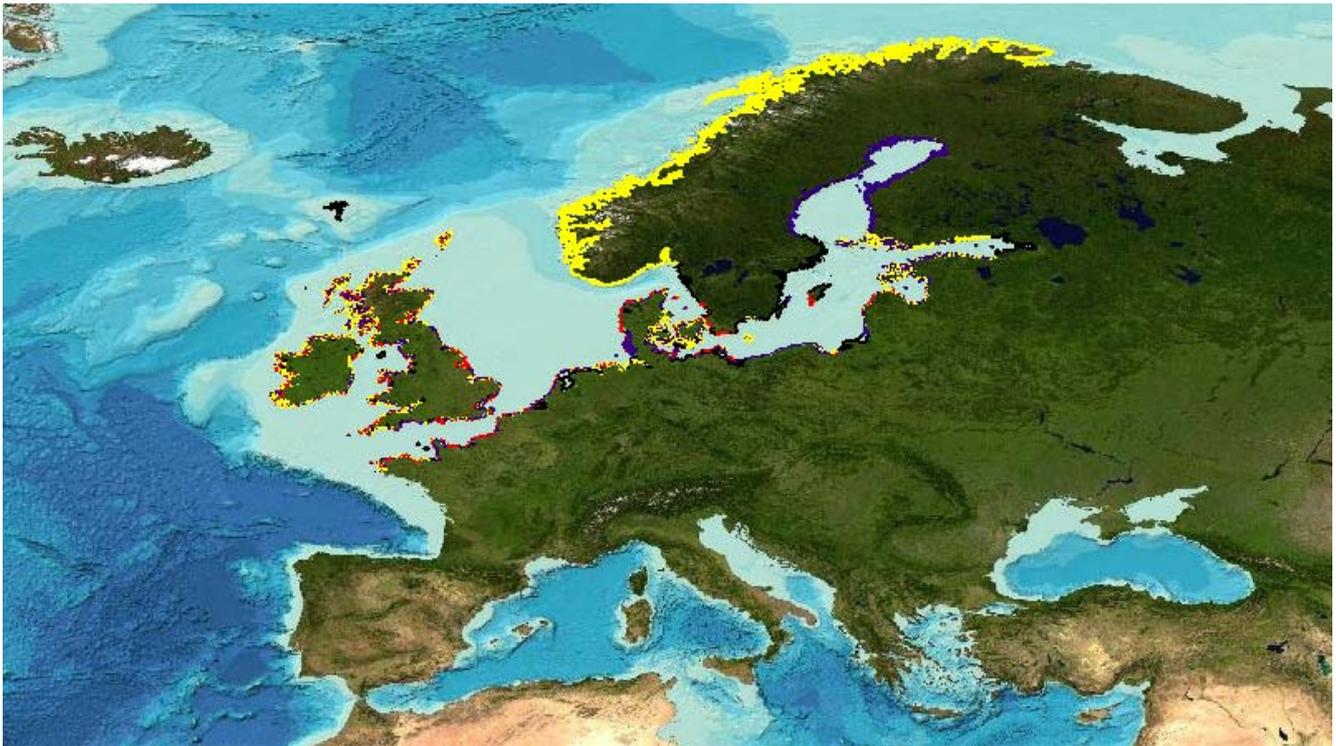




WP5: Coastal Behaviour

- migration
- Resilience
- Guidance document and associated ArcGIS attribute table completed and distributed to partners
- Next update shortly before Ostend Jamboree

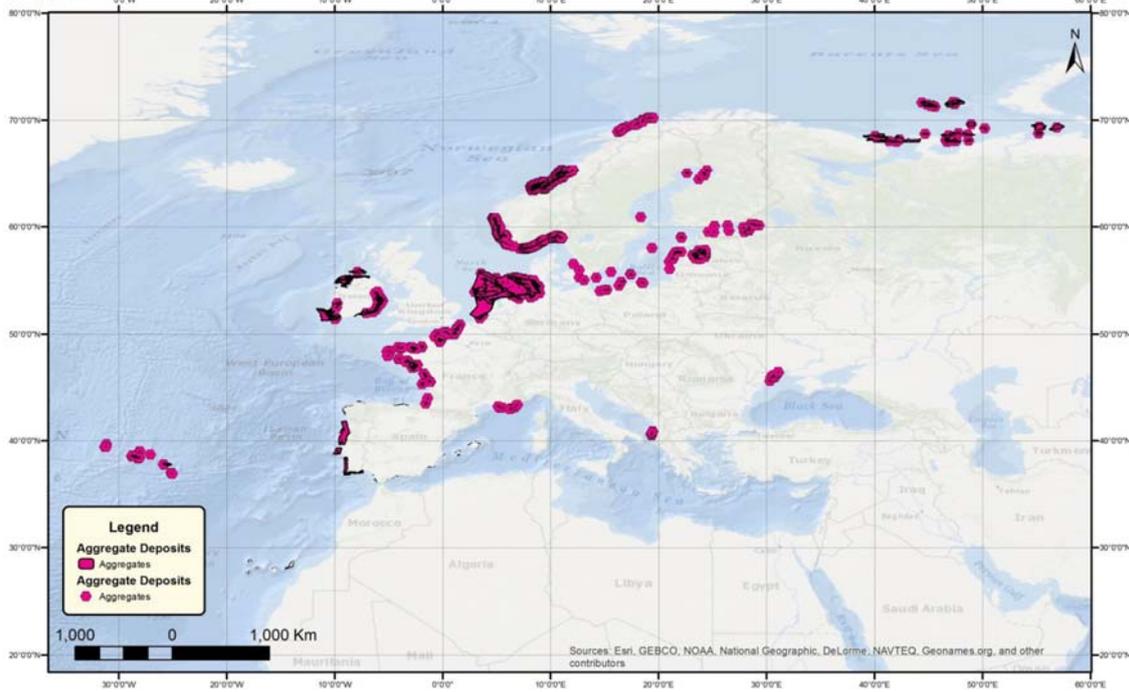
NAME	WP5_Coastal_migration_[name organisation]		
FIELD	FORMAT	EXPLANATION	COMMENT/ADVICE
FID	Number	Feature ID. An automatically generated unique identification number for each polygon.	
Shape	Line	Polyline, Automatically generated text, defining the feature type.	
Country_cd	Text (2)	Two letter country code (http://www.iso.org/iso/english_country_names_and_code_elements).	
Segment_cd	Text (10)	Identifier of every coastal segment. Composed of 2 letters (country code) followed by a sequential number. The code should be the same as the code in the INDEX map.	
Segment_In	Float Precision (10) Scale (2)	Length of segment in meters.	
Morpho	Text (5)	Description of the morpho-sedimentological entity as defined in EUROSION (http://www.euroSION.org/reports-online/databasestructure.pdf , page 46-47).	A, B, CA, C, D, E, F, G, H, J, K, L, M, N, P, R, S, X, Y, Z, Nda (no data)
Migr	Text (50)	Description of coastline migration.	-erosion (coastline retrogradation) -accretion (coastline progradation) -stable (imperceptible change) -no information on evolution
Accuracy_M	Text (50)	Accuracy of observations used to describe coastline migration.	-high accuracy, migration measured -low accuracy, migration estimated -no accuracy available
Migr_rate	Float Precision (10) Scale (2)	Quantified mean annual coastline-migration rate, calculated over a certain time period. Negative values indicate erosion. Positive values indicate accretion.	###,###
Period_R	Text (10)	Time period for which the mean annual migration rate was calculated.	XXXXX-XXXXX (first and last years covered)



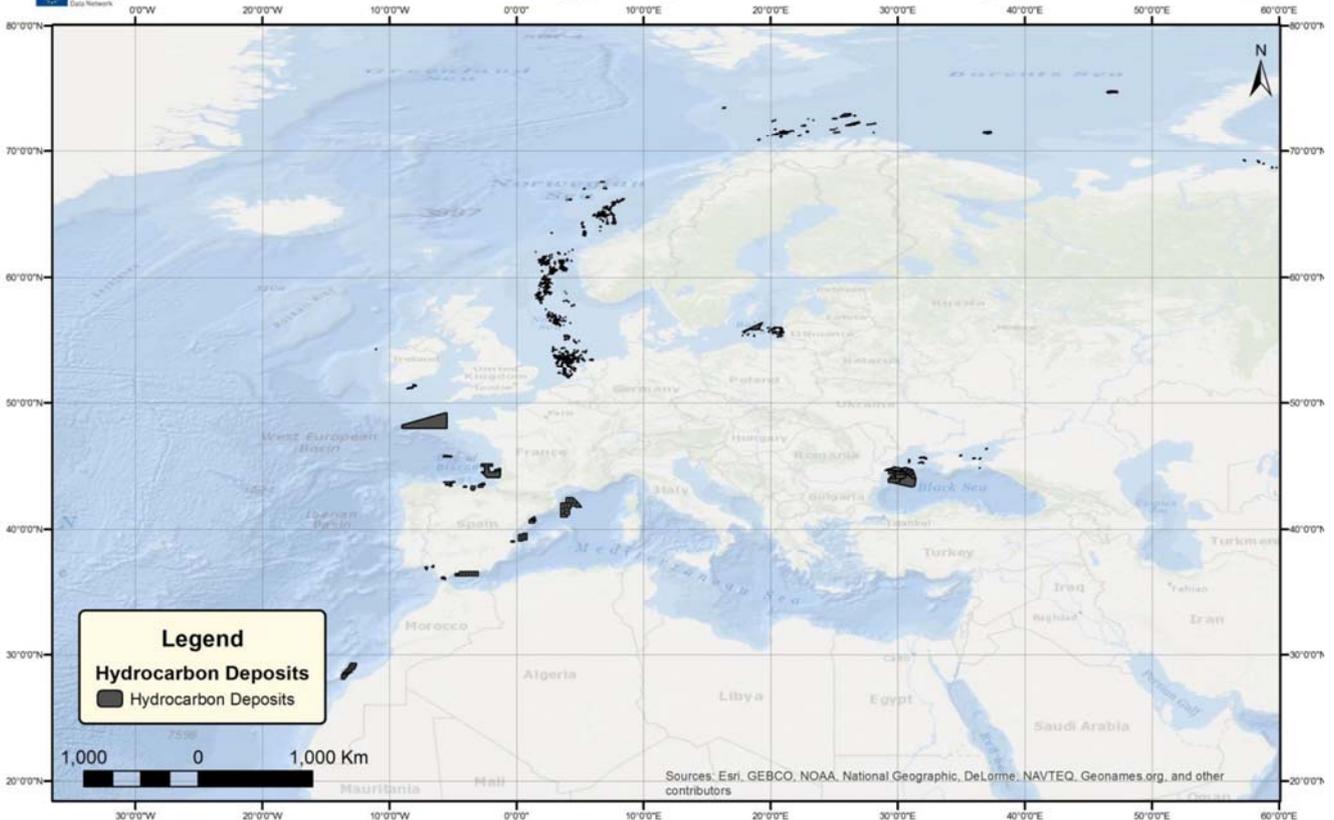
- Ongoing discussions about the features included in WP6.
- For example, additional linear shapefile represents the coasts affected by tsunamis.
- This information is needed in order to evidence the area impacted by the tsunami or in case of unknown source location.
- Features falling within the Adriatic Sea are spread over the EEZs of bordering countries. These countries agreed to cooperate creating a working group on Adriatic Sea geology which will work on all WPs of the EMODnet-Geology 2 Project. The first meeting of the Adriatic Sea Group was held in Rome on May 25th and 26th.

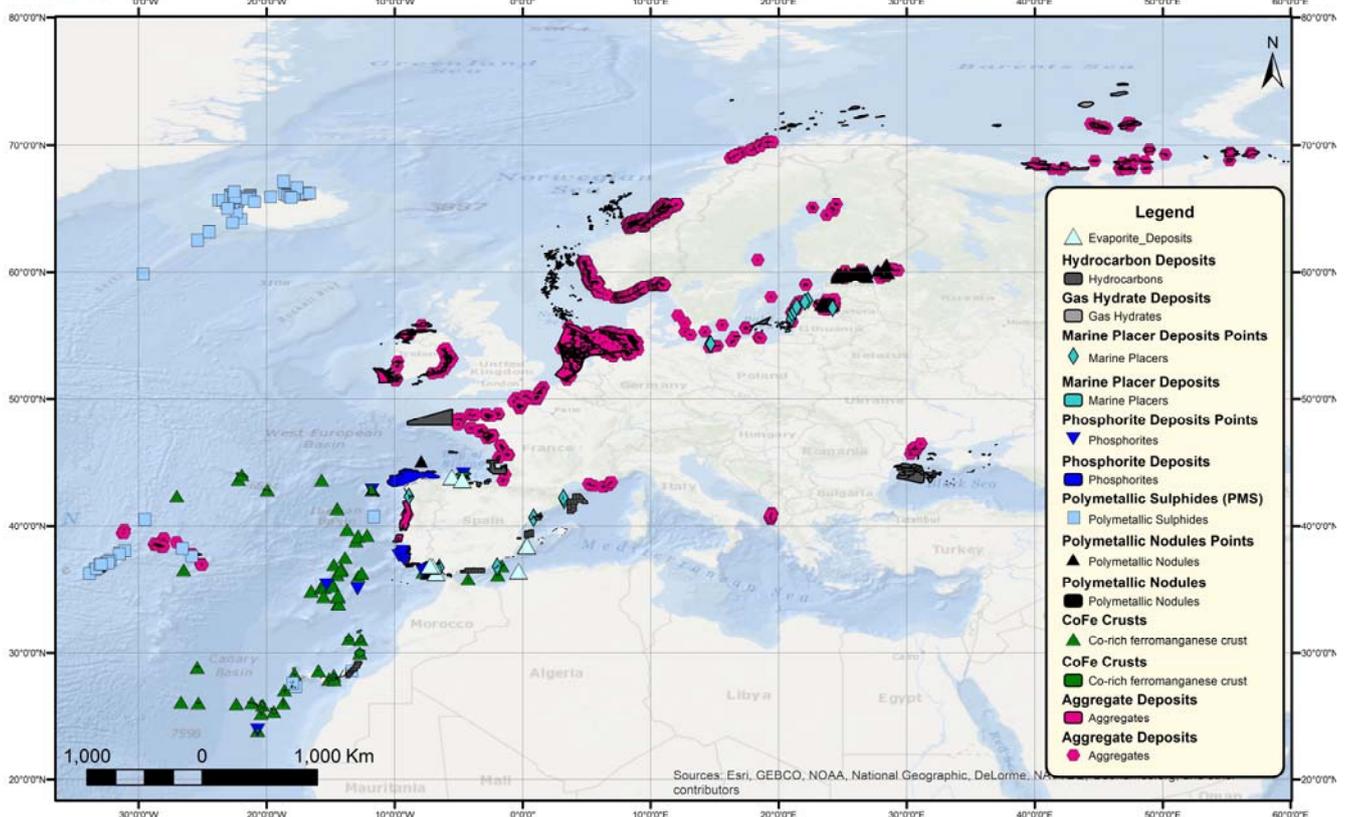
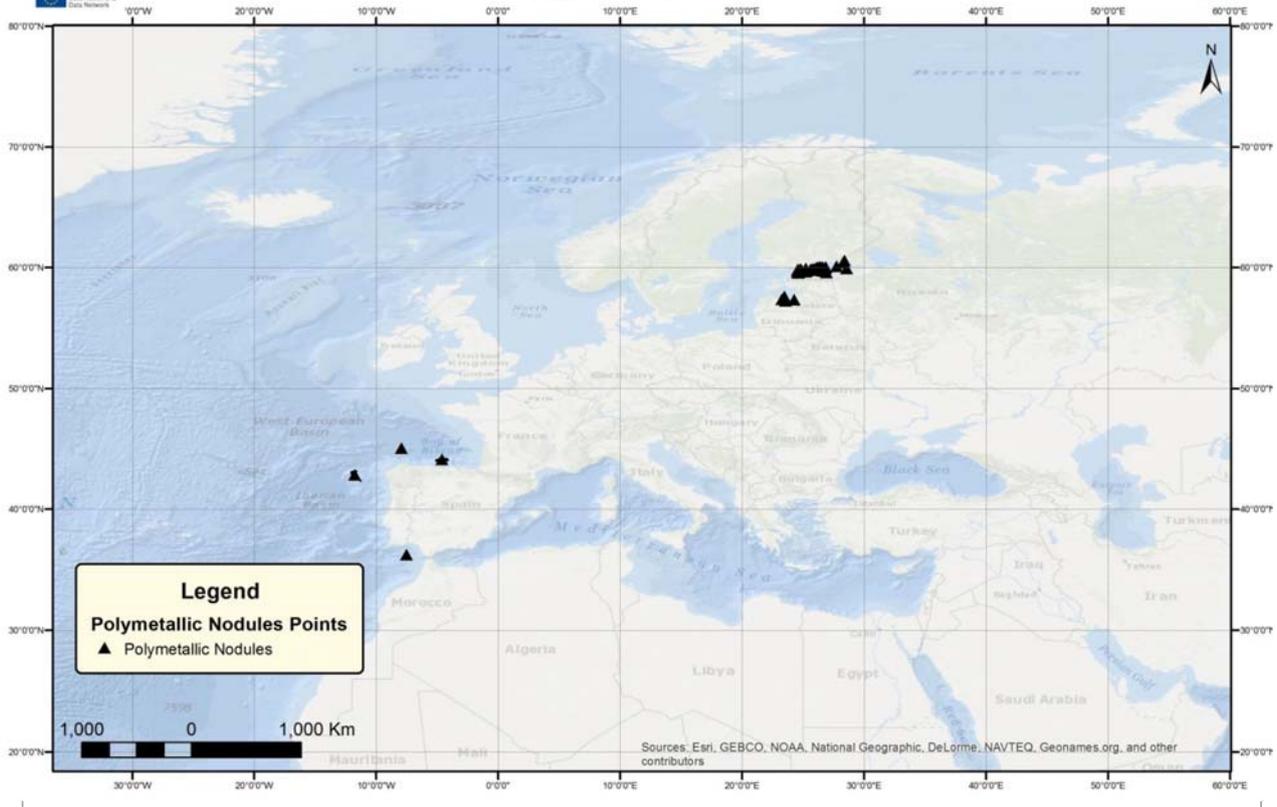


EMODnet Geology Aggregate deposits



EMODnet Geology Hydrocarbon deposits







- Chair of Atlantic Seabed Mapping International Working Group. Next meeting in Cork, Ireland on 9 July. Meeting on October 28 in St Johns, Canada.
- Session accepted on 'Mapping the oceans: co-ordinating seabed and habitat mapping for maritime spatial planning' at the AGU Ocean Sciences Meeting in New Orleans, 21-26 February 2016.
- Session on Marine Mapping submitted to International Geological Congress in Cape Town, August/September 2016.
- Attended workshop on establishing the European Ocean Observing System in Brussels in April.