

Name: **Submerged Landscapes**

Abstract:	Sea level is known to have fluctuated by more than 100 metres over repeated glacial cycles resulting in recurring exposure, inundation and migration of coastlines not only across Europe, but worldwide. Landscape response to these changes in sea level, and the preservation of these features on continental shelves around Europe, are an invaluable resource for improving our understanding of human history and environmental change over geological time. More than 10,000 features representing 27 classes of submerged landscape and palaeoenvironmental indicator ranging from mapped and modelled palaeocoastlines, evidence for submerged forests and peats, thickness of post-Last Glacial Maximum sediments and submerged freshwater springs have been collated.
Purpose:	The material has been created for the decision-making, research and large-scale marine spatial planning
Use limitation:	The dataset has been compiled at multi-scales from background information that in cases has been produced at a more detailed scale. The data therefore gives an overview of the marine regions in question. It is not suitable for local/detail scale analysis. The holders of the intellectual property rights (IPR) to the data, which existed prior to the Contract being entered into, are the EMODNET-Geology partners. The EMODNET-Geology partners (the IPR holders) give no warranty, condition or representation as to the quality, accuracy or completeness of the data, information, or service, or its suitability for any use or purpose. All

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Theme keyword:	seabed, substrates, sediments, marine geology, regional planning, mapping
Reference system identifier:	EPSG:4978 – WGS84
Distribution format:	ArcGIS, filegeodatabase

Metadata point of contact	
Organisation:	British Geological Survey
Role:	Producer
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Data Identification	
Date of publication:	October 2012
Alternate name:	
Version:	1.0

Responsible party	
Organisation	British Geological Survey
Role:	Producer
Contact e-mail:	cbond@bgs.ac.uk

Keywords	
Keywords:	Marine Geology
Data identification places	
Keywords:	Europe, Baltic Sea, North Sea, Celtic Sea, White Sea, Barents Sea, Norwegian Sea, North Atlantic, Bay of Biscay, Iberian coast , Black Sea, Macaronesia, Mediterranean Sea, Adriatic Sea, Aegean Sea, Levantine Sea, Ionian Sea
Temporal	
Keywords:	Holocene-Pleistocene
Additional keywords	
Keywords:	GEMET – INSPIRE Geology
Credits	
References:	The EU and the EMODNET Geology project partners
Language:	English

Status:	Completed
Maintenance information:	When needed
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Availability:	Public

Coordinate System Reference System	
Code:	4978
Namespace:	EPSG
Data quality information source	
History:	Copyright: European Community, represented by the European Commission. The holders of the intellectual property rights (IPR) to the data, which existed prior to the Contract being entered into, are the EMODNET-Geology partners
Process step:	A harmonised classification of submerged landscape features (landforms and deposits) and palaeoenvironmental indicators utilises existing records (e.g. maps, geophysical data, databases, reports, literature) to assemble an inventory of submerged landscape data. Submerged landscapes features included are: coastal, riverine, subaerial, water points and archaeological data. Palaeoenvironmental information will comprise records of flora and fauna and indicators of former sea level. Chronological information (e.g. 14C) will be included as an attribute, and used to assign features to a specific palaeogeographic reconstruction. An assessment of Holocene sediment

	thickness will be made using existing geological maps and/or borehole databases. The compiled information on submerged landscape features, palaeoenvironmental indicators and age will be used to underpin palaeogeographic reconstructions across various time-frames.
Processing environment:	The material has been produced in the ESRI ArcGIS environment.