



# **BALANCE**

# Session 2: Towards marine landscapes in the Baltic Sea

#### **BALANCE Conference**

25-26 October 2007 Copenhagen, Denmark

**David Connor** 

Estonia
Finland
Germany
Latvia
Lithuania
Norway
Poland
Sweden

Denmark







## A wider European perspective

- National programmes
- •International programmes
  - -MESH & UKSeaMap
- Mapping for policy & legislation
  - -OSPAR Convention
  - -EC Habitats Directive
- Future needs
  - -Marine Strategy Directive
  - -Maritime Blue Book







#### **Ireland**

#### Full coverage geophysical survey

#### **Phase I - Irish National**

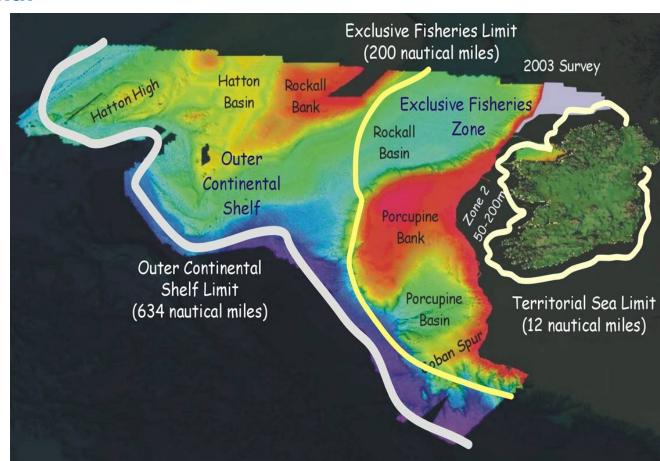
#### **Seabed Survey**

1999-2006 €32m 200 to >4000m depth 520,000 km<sup>2</sup>

#### Phase II - InfoMar

2006-2020 €70m 0 to 200m depth

www.gsiseabed.ie

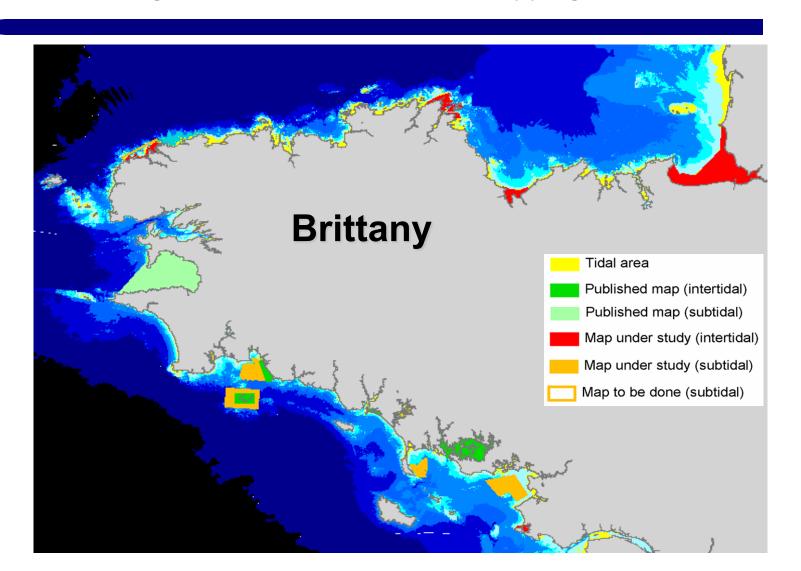






### France

REBENT: High resolution near-shore mapping







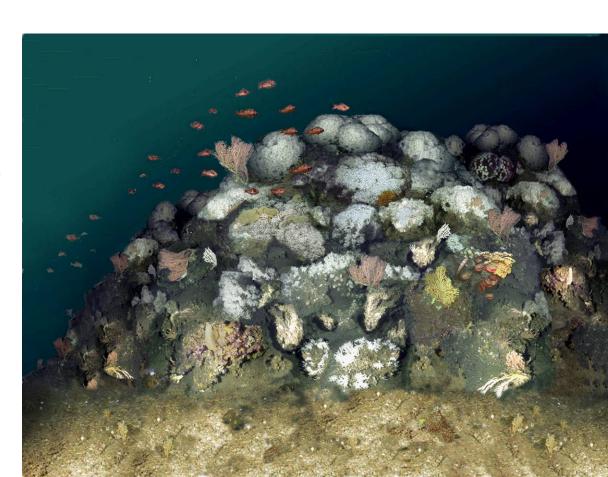


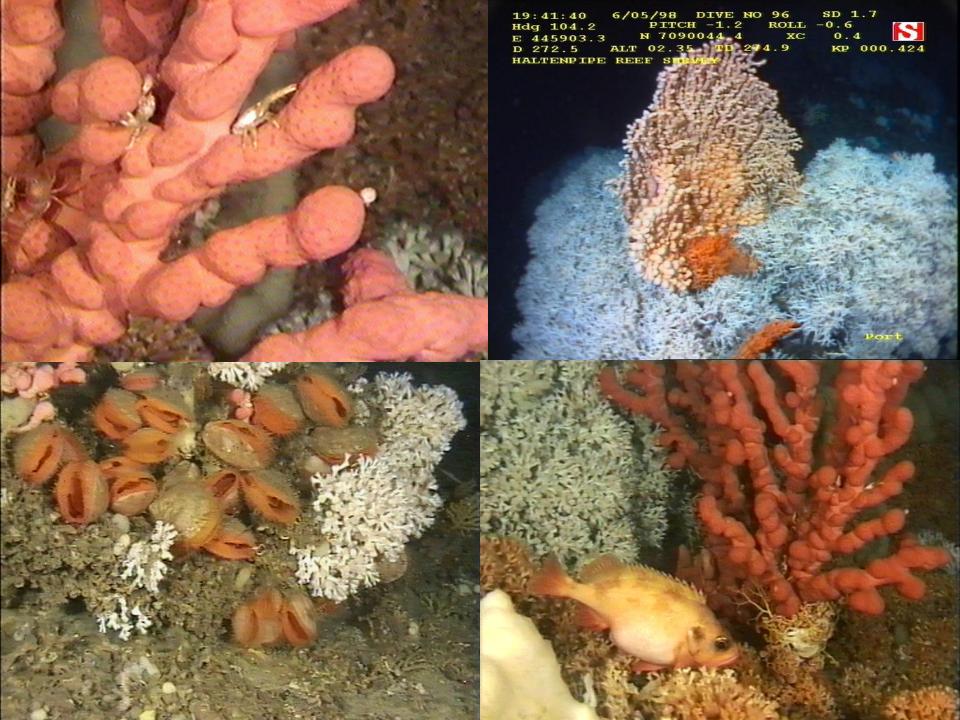
# Norway Cold-water corals & fisheries

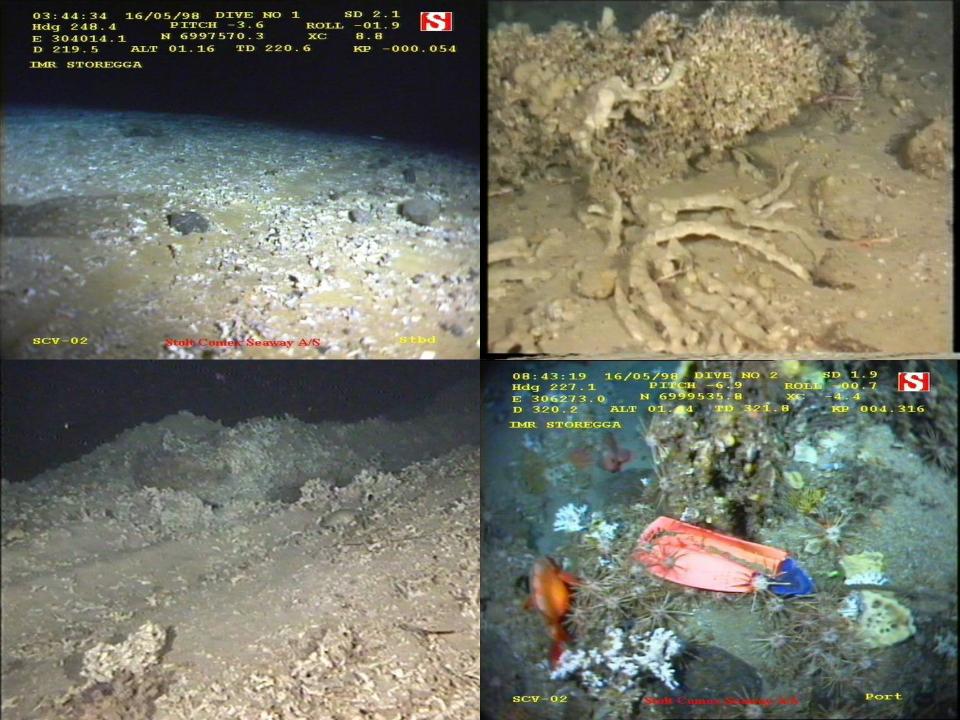
Cold-water coral mapping – Lophelia pertusa reef

Extensive use of multibeam echosounder and deep-water video

Reveals damage to coral reef from bottom trawling







# Hesteskoen, Norway





# International mapping programmes

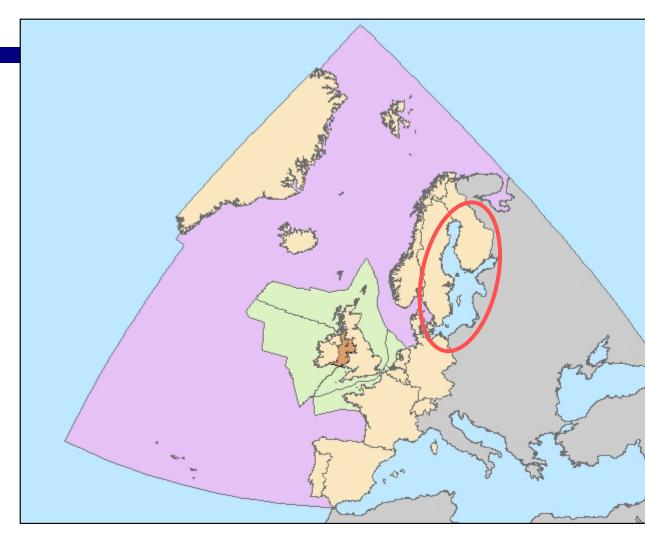
**UKSeaMap: UK** continental shelf

**MESH: Interreg NWE** 

sea areas

**OSPAR** priority habitat mapping: **OSPAR** area

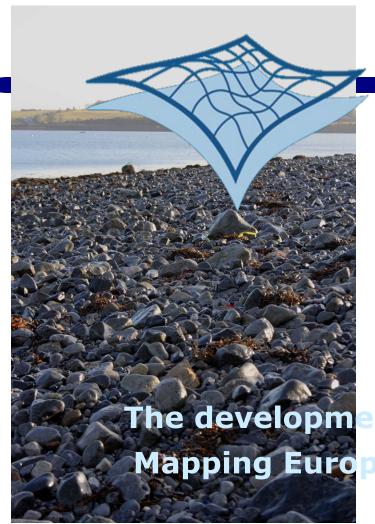
**BALANCE: Baltic Sea** 











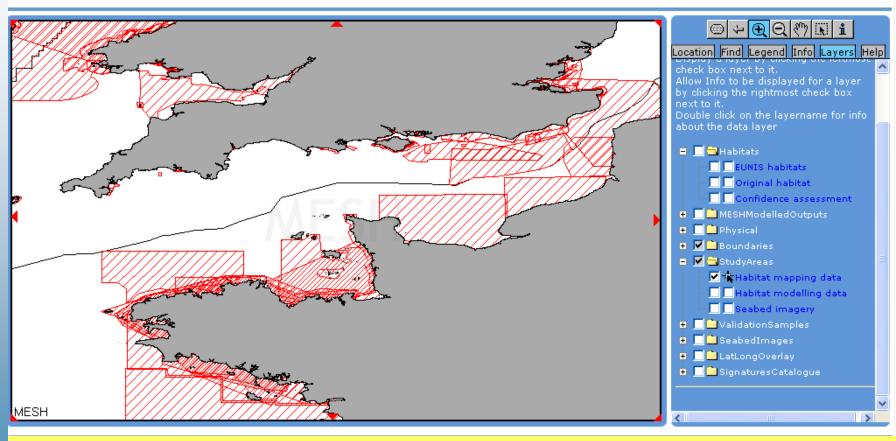








#### Give feedback



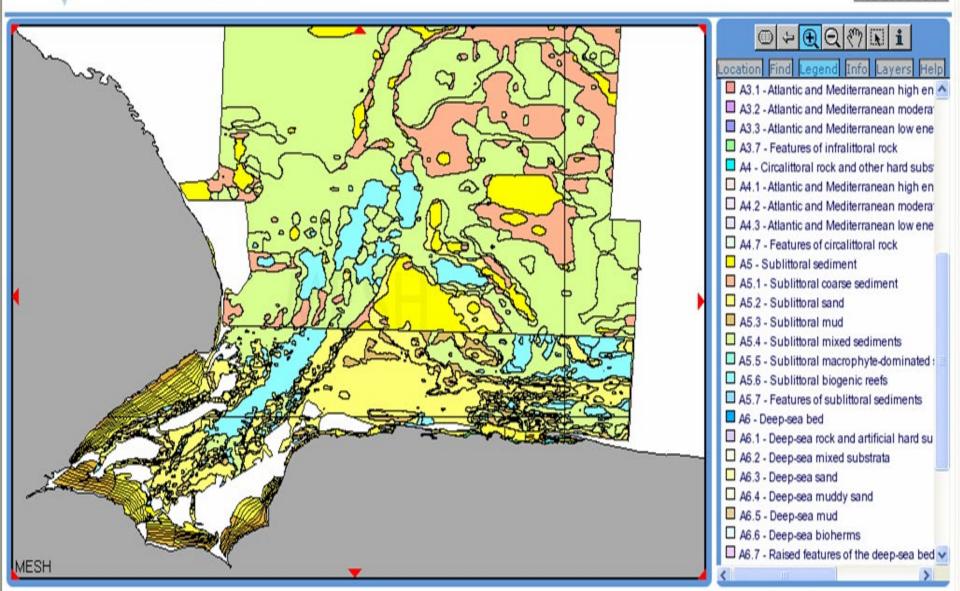
WebGIS

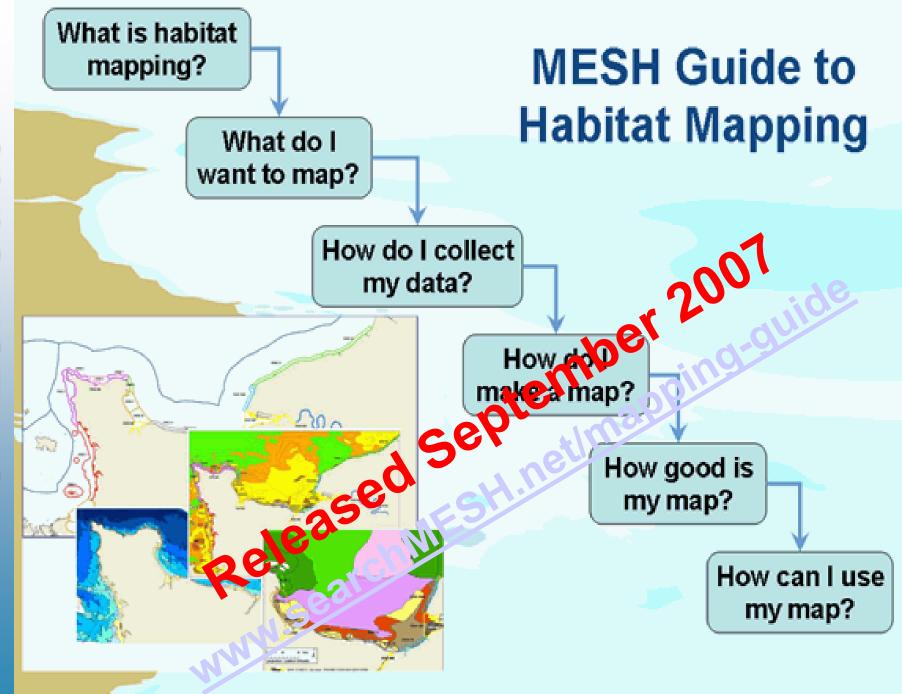
#### Habitat maps online at:

www.searchMESH.net/webGIS



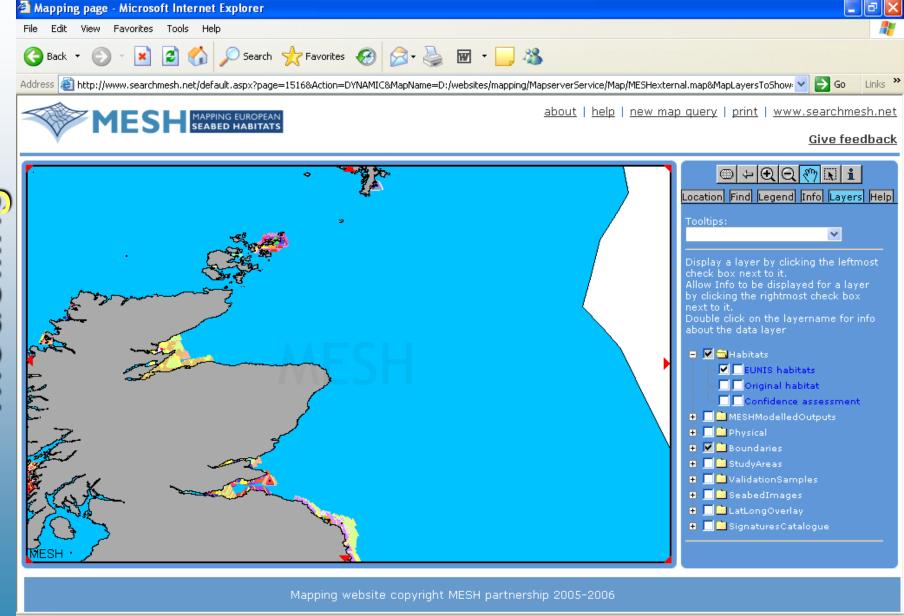
#### Give feedback





# Patchy data coverage

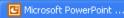






E Done

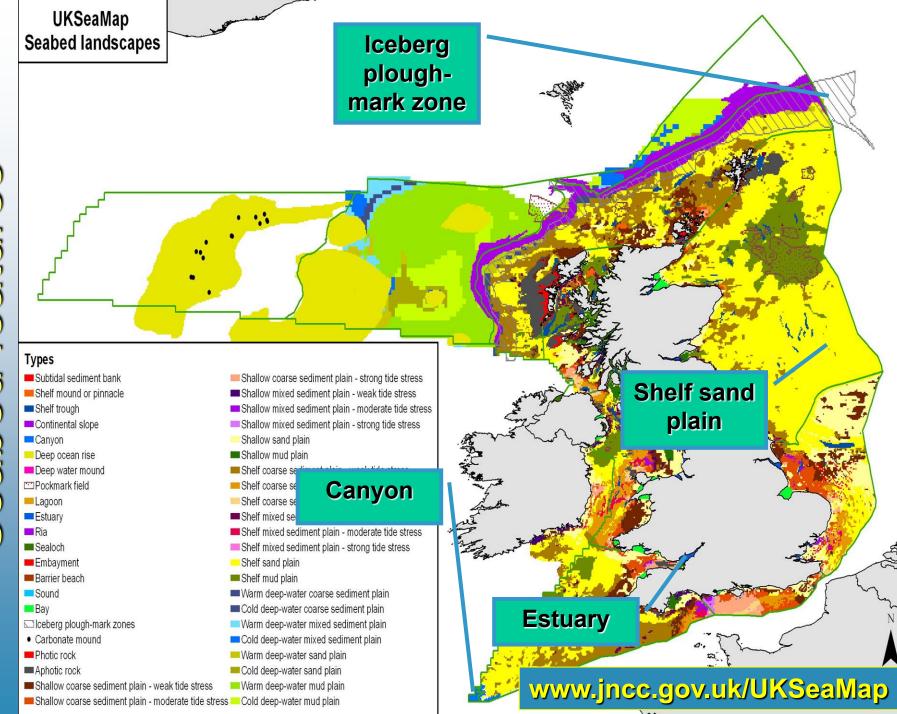








🥙 Internet



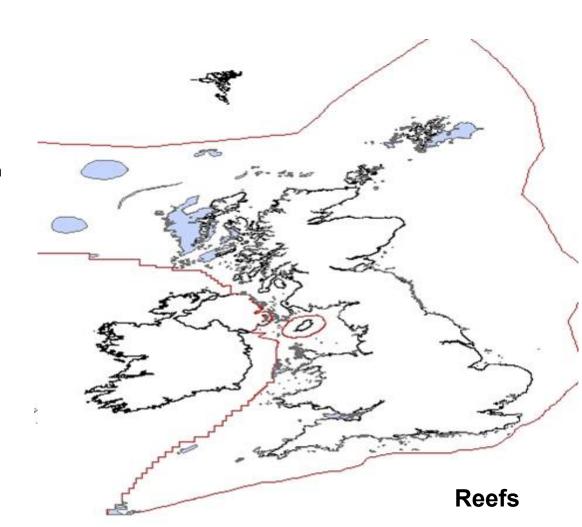




# Habitats Directive Annex I habitats

#### FCS – Favourable Conservation Status assessments

Report to EC in 2007
Include distribution and extent data on each habitat

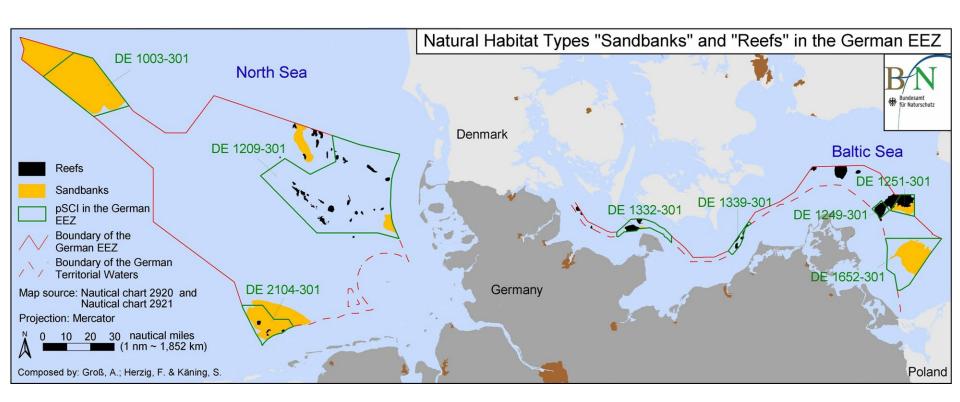






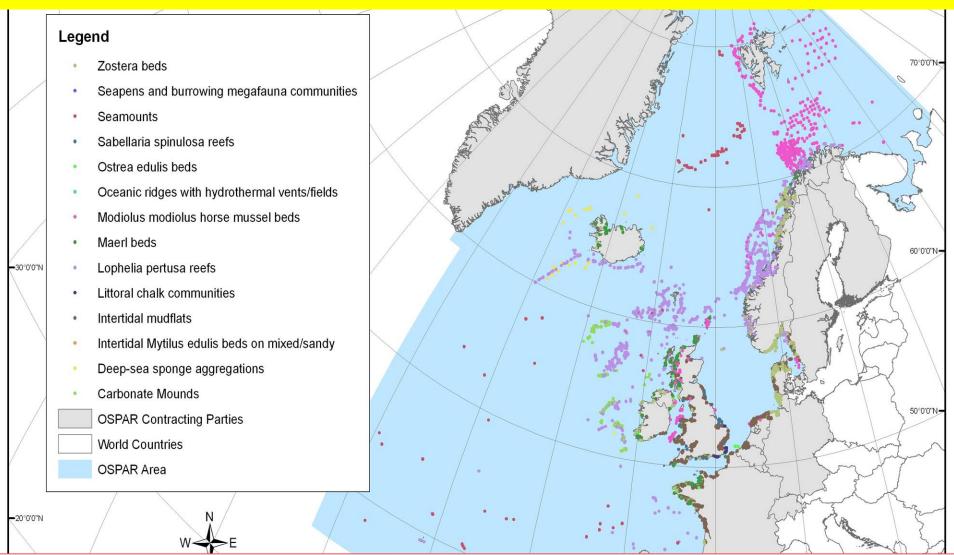
# Germany

#### Habitats Directive Annex I mapping





#### **Distribution of the 14 OSPAR habitats**



www.searchNBN.net/hosted/ospar/ospar.html

www.ospar.org/eng/html/welcome.html

(and follow links 'Protection and conservation of Marine Biodiversity and Ecosystems'





# Marine Strategy Directive Article 7 - assessment

Member States shall make <u>an initial</u>
<u>assessment</u> of their marine waters,
taking account of existing data where
available and <u>comprising</u> the following:

an analysis of the essential characteristics and current environmental status of those waters, based on the indicative list of elements set out in Table 1 of Annex II, and covering the habitat types, the biological components, the physico-chemical characteristics and the hydromorphology;







## MSD Annex II Habitat types

The predominant seabed and water column habitat type(s) with a description of the characteristic physical and chemical features, such as depth, water temperature regime, currents and other water movements, salinity, structure and substrata composition of the sea bed;

Identification and mapping of special habitat types especially those recognised or identified under EU legislation (habitats and birds directives) or international conventions as being of special scientific or biodiversity interest;

Habitats in areas which by virtue of their characteristics, location, or strategic importance merit a particular reference. This may include areas subject to intense or specific pressures or areas which merit a specific protection regime.







# **EU Maritime Blue Paper**

Released 10 October 2007

#### The Commission will:

- Take steps in 2008 towards a European Marine
   Observation and Data Network, and promote the multi dimensional mapping of Member States' waters, in order
   to improve access to high quality data (Section 3.2.3 Data
   and Information)
- Launch a European Atlas of the Seas as an educational tool and as a means of highlighting our common maritime heritage (Section 4.5 Raising the Visibility of Maritime Europe)

#### **Action Plan:**

 In the second half of 2008 it will also propose a programme for the development of mutually compatible and multi-dimensional mapping of seas in Member States' waters.





## **Presentations**

14:25 General discussion

13:10	Benthic marine landscapes  Zyad Al-Hamdani, The Geological Survey of Denmark and  Greenland, Denmark
13:30	Topographic and physiographic marine features Anu Reijonen, The Geological Survey of Finland, Finland
13:50	<b>Application of marine landscape maps</b> Johnny Reker, The Danish Spatial and Environmental Planning Agency, Denmark
14:10	<b>Synthesis</b> Jørgen Leth, The Geological Survey of Denmark and Greenland, Denmark

