

UNEP/GRID-Arendal's Marine Programme

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Presentation overview

- What is UNEP/GRID-Arendal?
- What is the UNEP Shelf Programme?
- The UNEP Shelf Programme: Data serving States.
- The UNEP Shelf Programme: Progress to date.
- Integrated Oceans Management



UNEP/GRID-Arendal mission: Environmental Information for Change





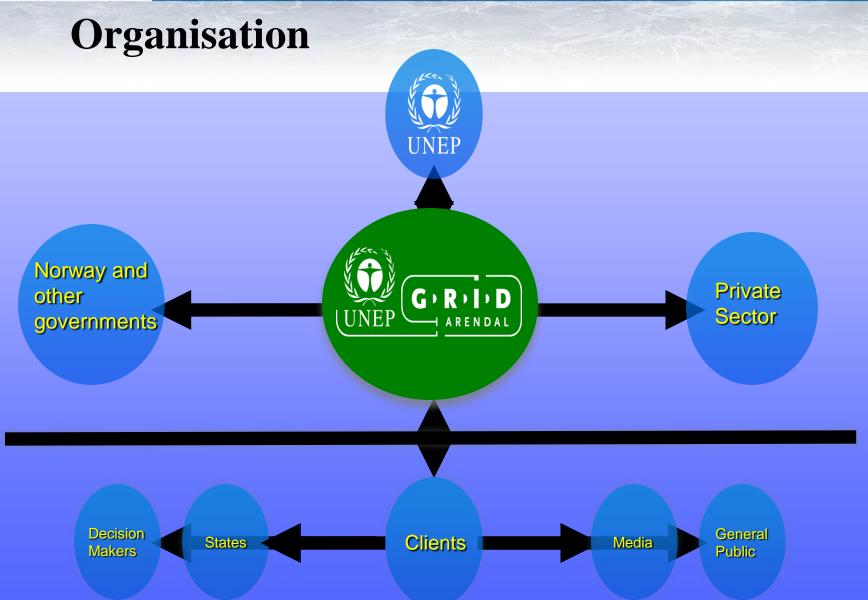
- Dedicated to making a difference, we explore how environmental information impacts on decision-making and the environment.
- Seeking to bridge the gap between science and politics.



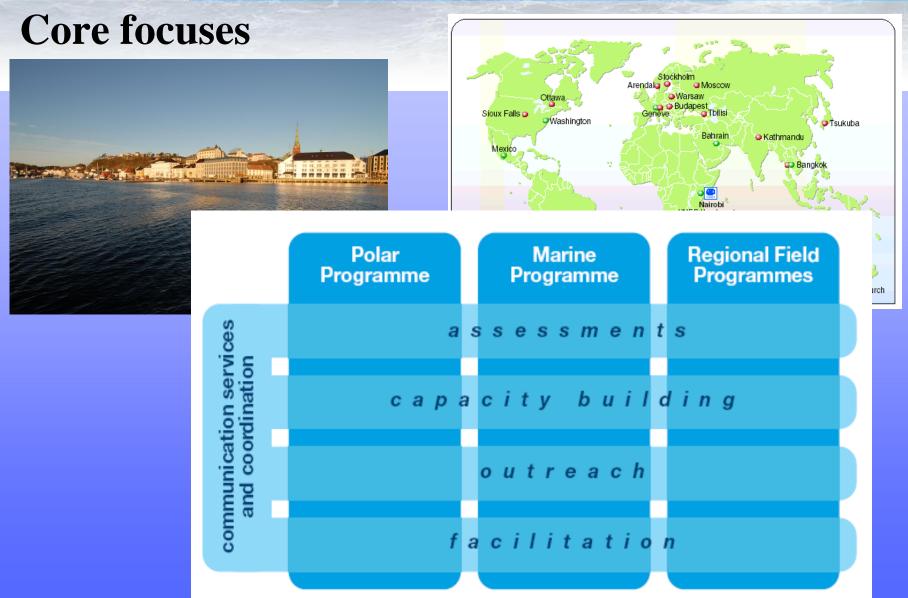
UNEP/GRID-Arendal facts

- Non profit, administratively independent institution, founded in 1989 by the Norwegian Ministry of Environment.
- MoU between UNEP and MoE: Official UNEP Collaborating Center
- UNEP's Polar centre
- 35 staff members based in Arendal, Geneva, Ottawa, Stockholm and Sydney.
- 60% core funding from MoE and MoFA, Norway
- 40% through private sector, public sector and international organizations.
- All projects/activities support UNEP's Program of Work



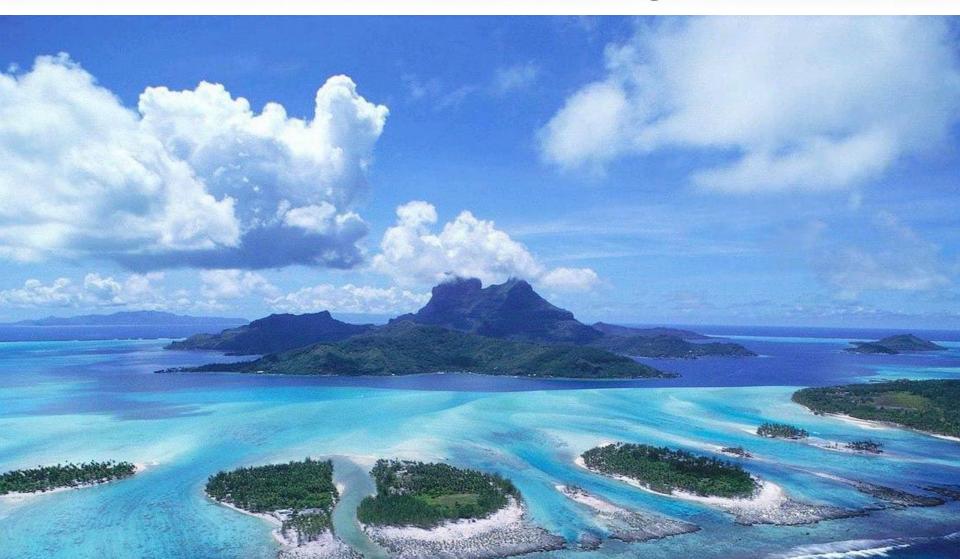








What is the UNEP Shelf Programme?



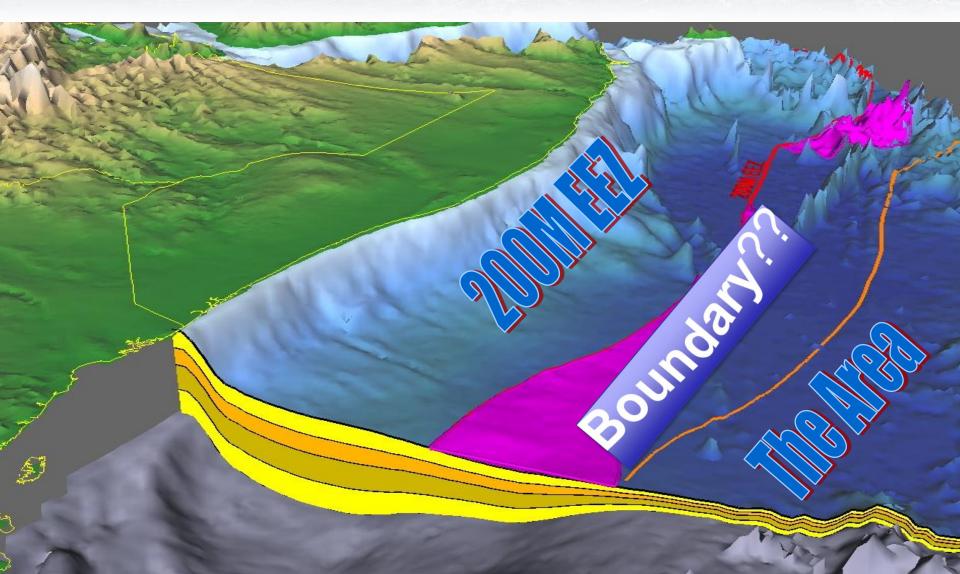


Mandate from UN General Assembly 2002

"Calls upon the United Nations Environment Programme, working within the Global Resource Information Database (GRID) system for data and information management, to expand on a voluntary basis the capacity of existing GRID centres to store and handle research data from the outer continental margin, on a basis to be mutually agreed with the coastal State, and complementary to existing regional data centers, giving due regard to confidentiality needs and in accordance with Part XIII of the Convention, and making use of existing data management mechanisms under the Intergovernmental Oceanographic Commission and the International Hydrographic Organisation, with a view to serving the needs of coastal States, and in particular developing countries and small island developing States, in their compliance with article 76 of the Convention;"

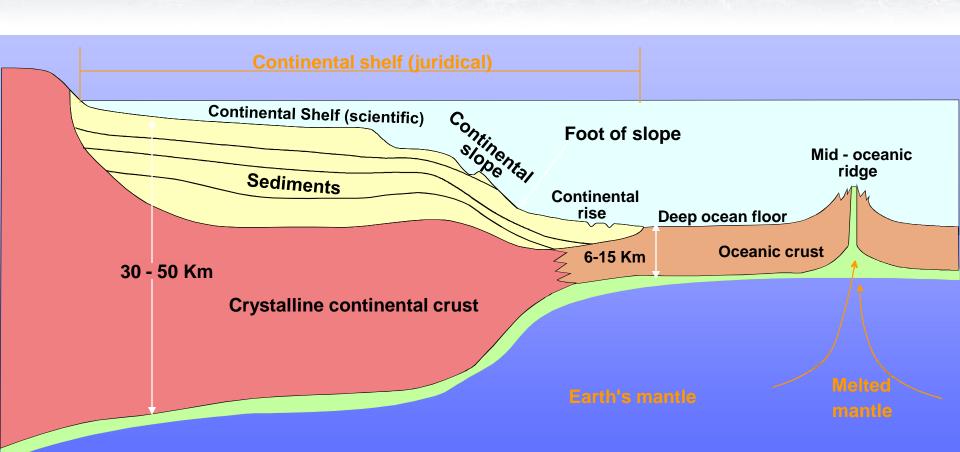


Article 76





Article 76





Article 76: steps towards a submission

All phases of the delineation project

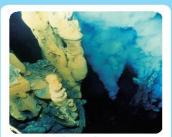




UNEP Shelf Programme: Why?

UNEP Shelf Programme

The benefits of submission Resources of the Continental Shelf



Geothermal energy



Pharmaceuticals Bio-mining



Gas hydrates



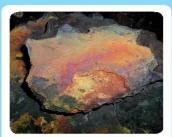
Benthic food sources



Offshore oil and gas



Marine biodiversity Marine Protected Areas



Metals (e.g. copper)



Diamonds



Extreme life Industrial applications



Sand and gravel

And future resources...



UNEP Shelf Programme: Assisting States



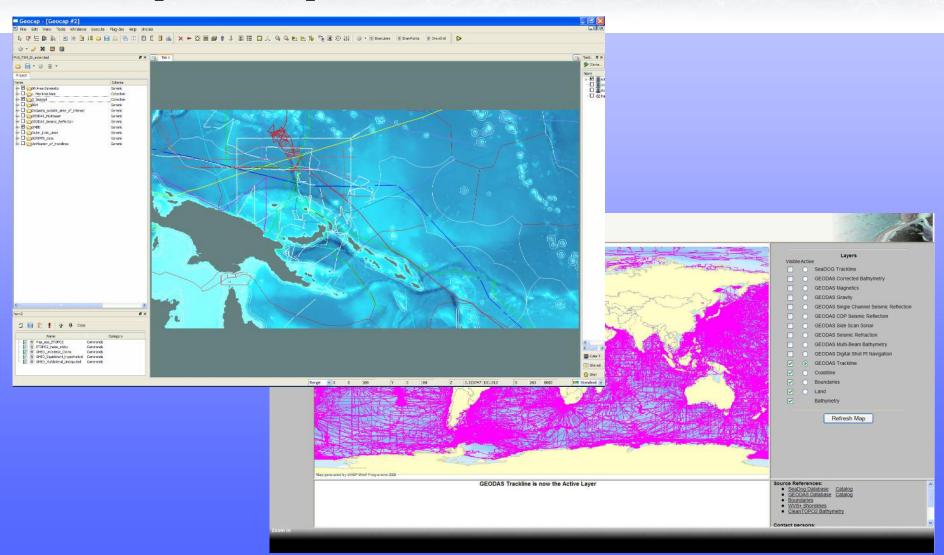


UNEP Shelf Programme: Data serving States

- Data mining and access
 - (IFREMER, IPGS, BGR, BSH, Southampton NOC, NGDC/GEODAS, LDEO, SCRIPPS, WHOI, JAMSTEC, JODC, IODP, USGS)
- Looking to access Russian data
- Through partnerships:
 - Provide training
 - Provide technical and scientific support
 - Provide advice
- Promote the establishment of national/regional marine databanks e.g. SOPAC

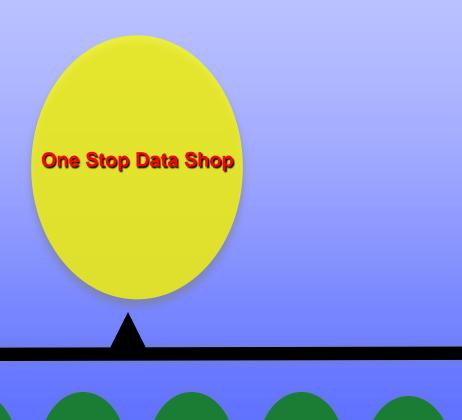


One Stop Data Shop





Data Sources



IHO GEODAS

Geological Surveys

Customer Data Others

ODP/DSDP

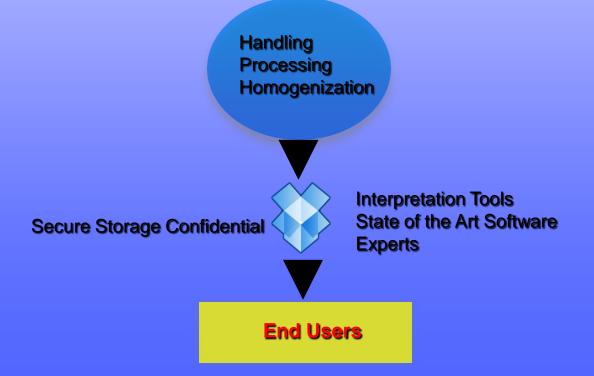
Oil and Gas Industry Research Institutions

Universities



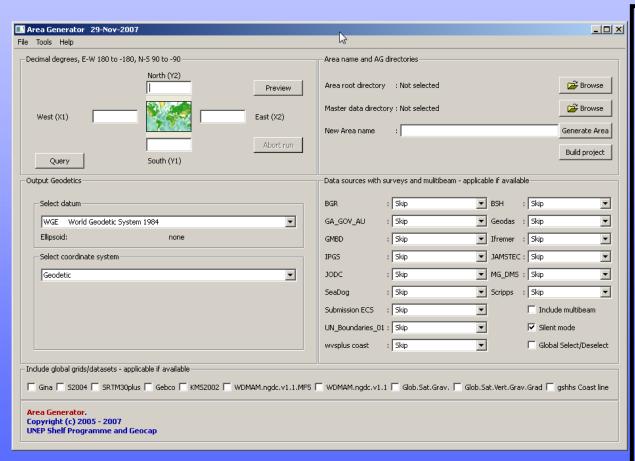
One Stop Data Shop: Typical Data Flow







Area Generator



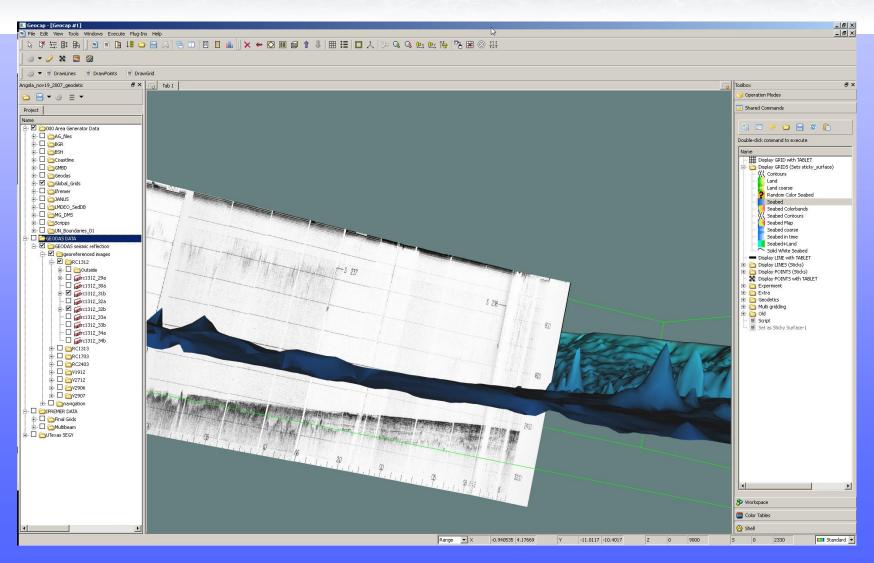
Generate a "project" anywhere in the world from master data base in chosen projection and datum in a few minutes.

The "project" can be converted by the One Stop Data Shop's filters to the desired format for import into chosen tool.

Data completeness of the "project" will depend on the One Stop Data Shop's ability to get access to and process relevant data.

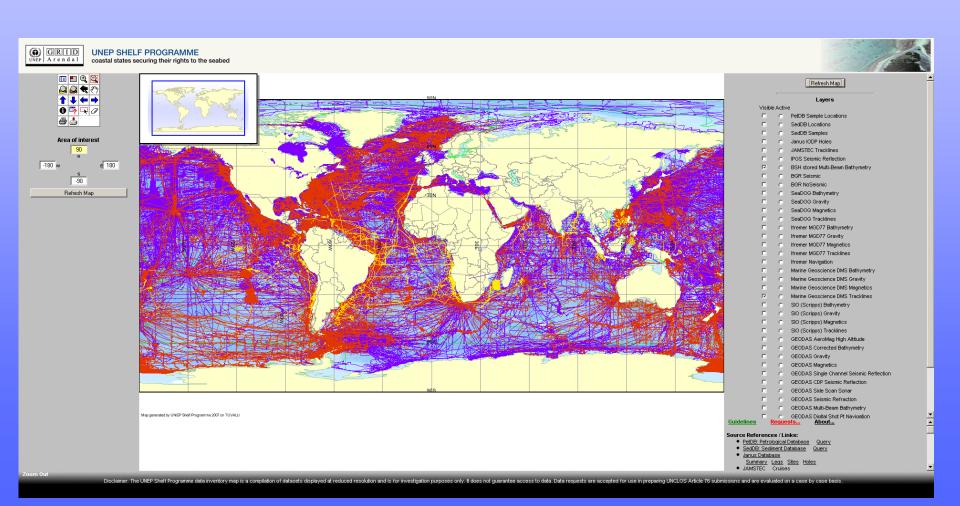


Seismic Data (continued): scanned imagery



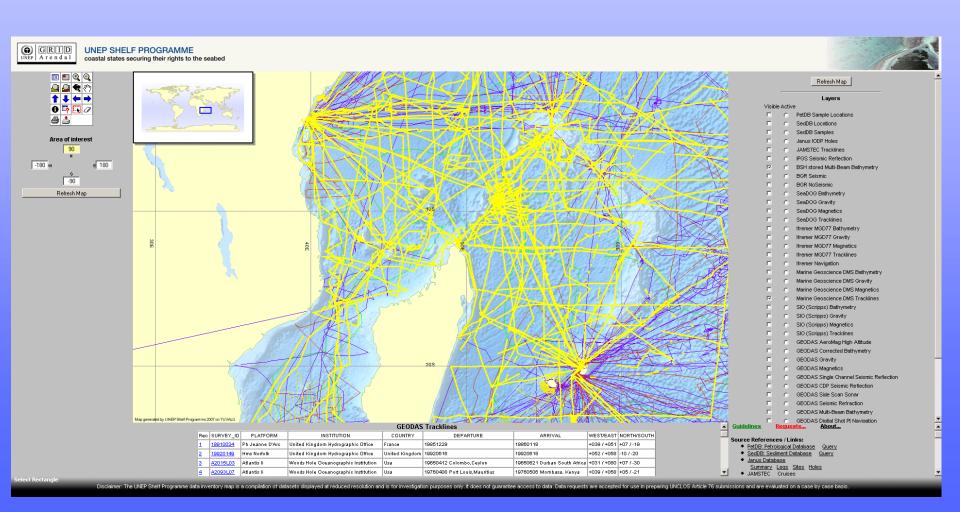


Web interface: How to access the One Stop Data Shop



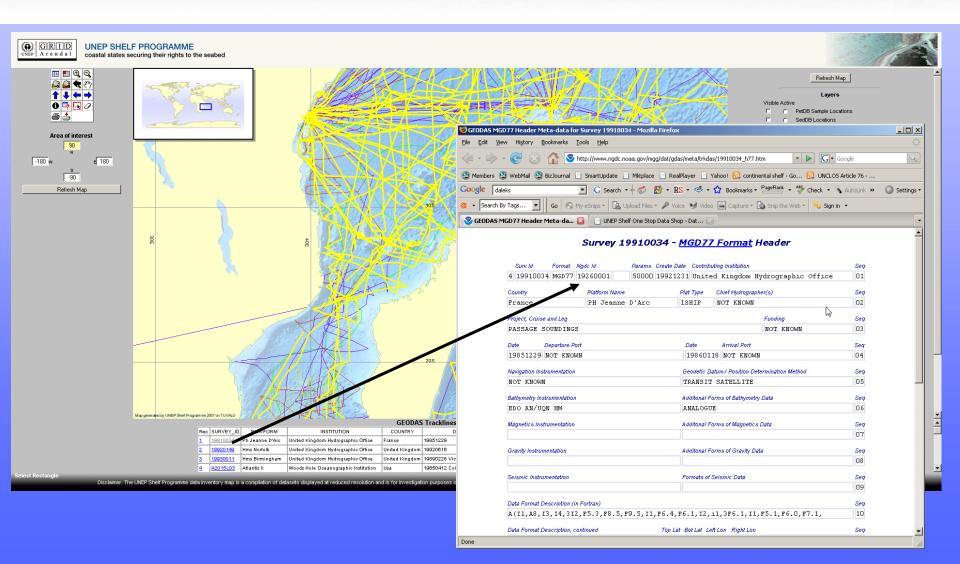


How to Access the One Stop Data Shop (cont)





How to Access the One Stop Data Shop (cont)



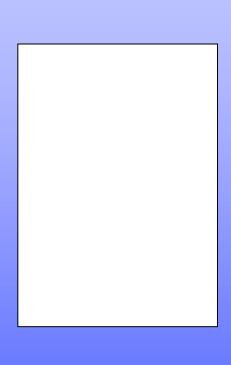


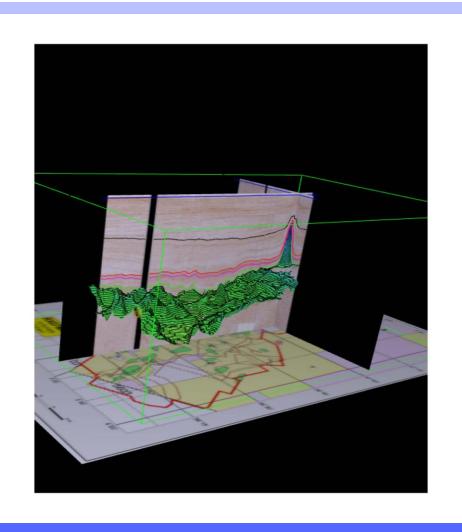
Google earth: Geodas tracklines





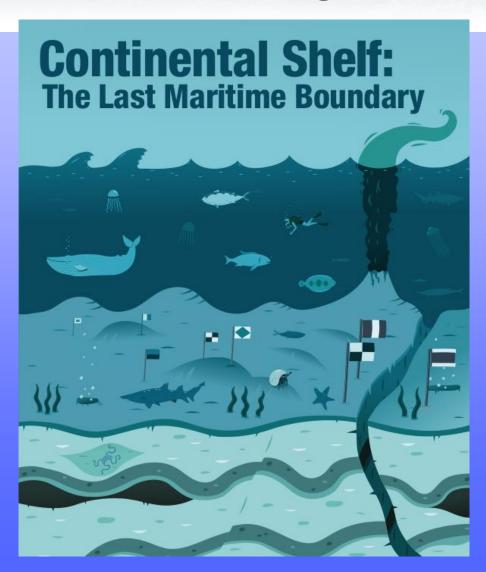
Data presentation output: 3D pdf creation







UNEP Shelf Programme: progress to date

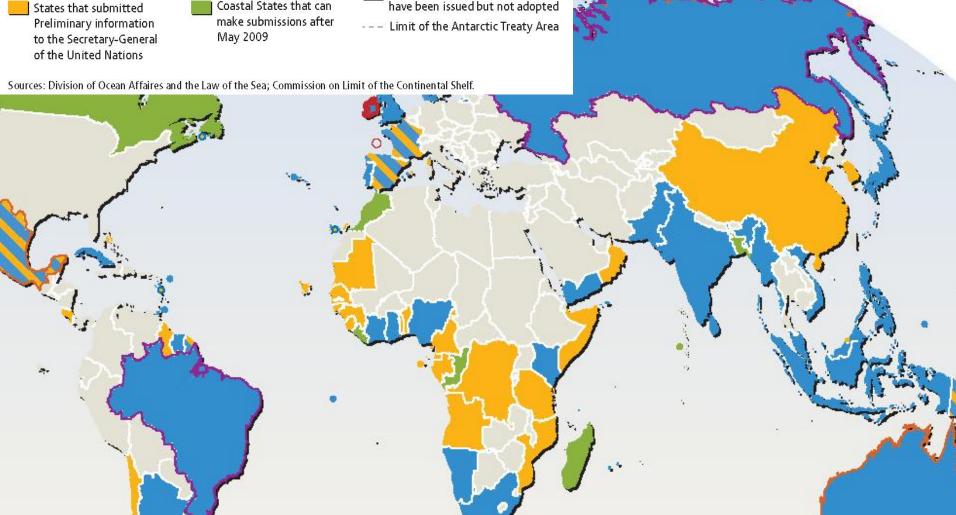


On your bookshelf soon...



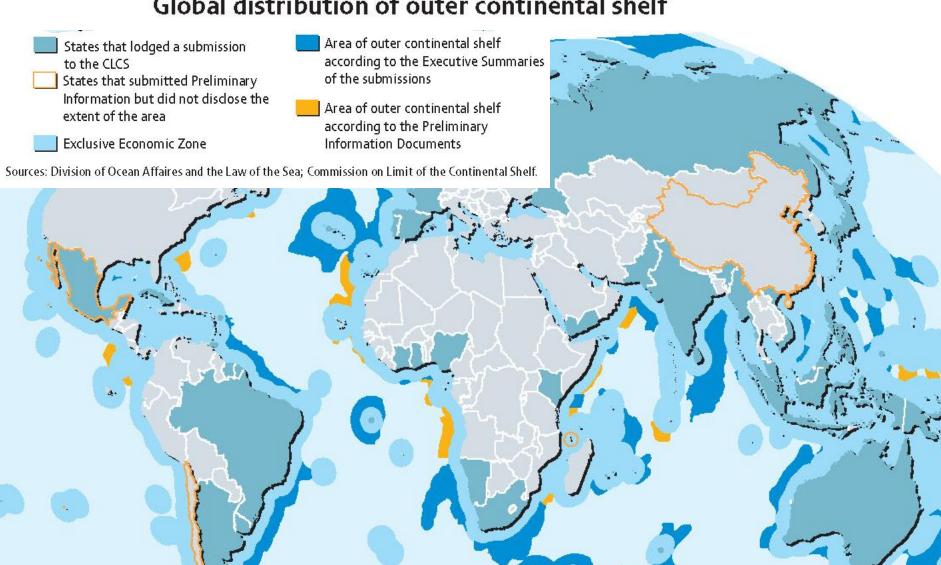
Status of submissions for outer continental shelf

- States that lodged a submission to the CLCS
- States that submitted of the United Nations
- States that lodged both submission and Preliminary Information
- Coastal States that can May 2009
- States for which recommendations have been issued and adopted
- States for which recommendations have been issued but not adopted



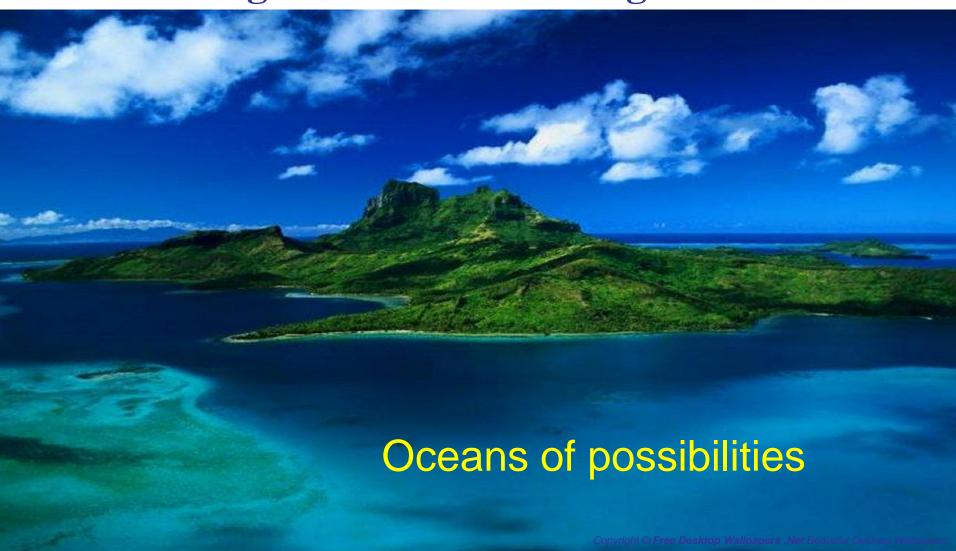


Global distribution of outer continental shelf



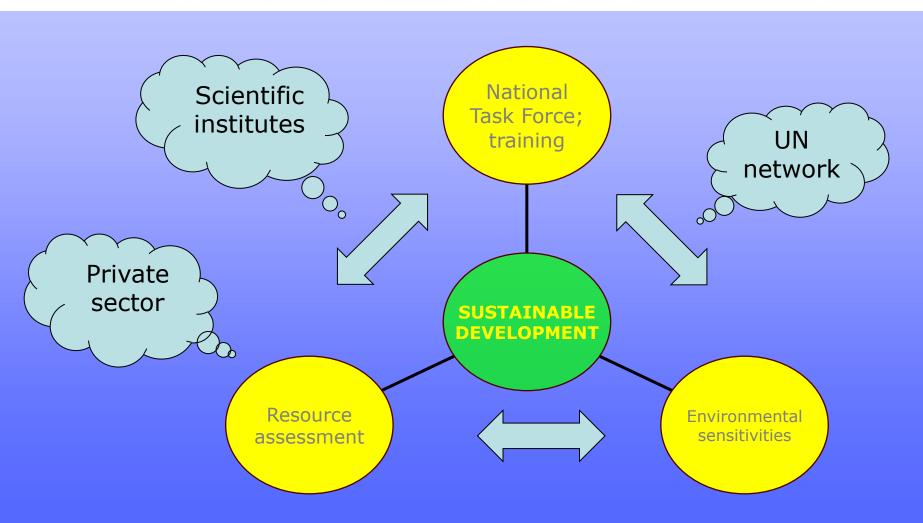


Integrated Oceans Management





Integrated Oceans Management





Marine and coastal sustainable development

Support in the development of:

- the UN regular process on Marine assessment
 - -"Global Outlook on Benthic Habitats"
 - Regional rapid response assessments







LAUNCHING SOON:



Marine and coastal sustainable development

Assist UNEP in:

- developing its climate change adaptation programme through capacity building on integrated planning and preparedness to sea level rise with the aim of integration into national integrated Coastal Zone Management polices and plans
- reviewing ocean acidification impacts and implications of CO2 sequestration in deep geological reservoires (participation in scientific discussion forums and prepare funding proposal for oil companies implementing deep CO2 storage)

From Greenpeace





Capacity Building in Integrated Oceans Management

Promote rationale management of coastal and marine resources for both conservation and sustainable development through building capacity within coastal states in order to integrate the marine environment into national development planning

- develop and deliver training packages in cooperation with:
 - partners, including Norwegian Institute for Marine Research and other Norwegian and International marine institutions
 - developing states (providing guidance and receiving the trainings)







Capacity Building in Integrated Oceans Management

Support international organizations with environmental knowledge leading to sustainable









How can you reach us?

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