


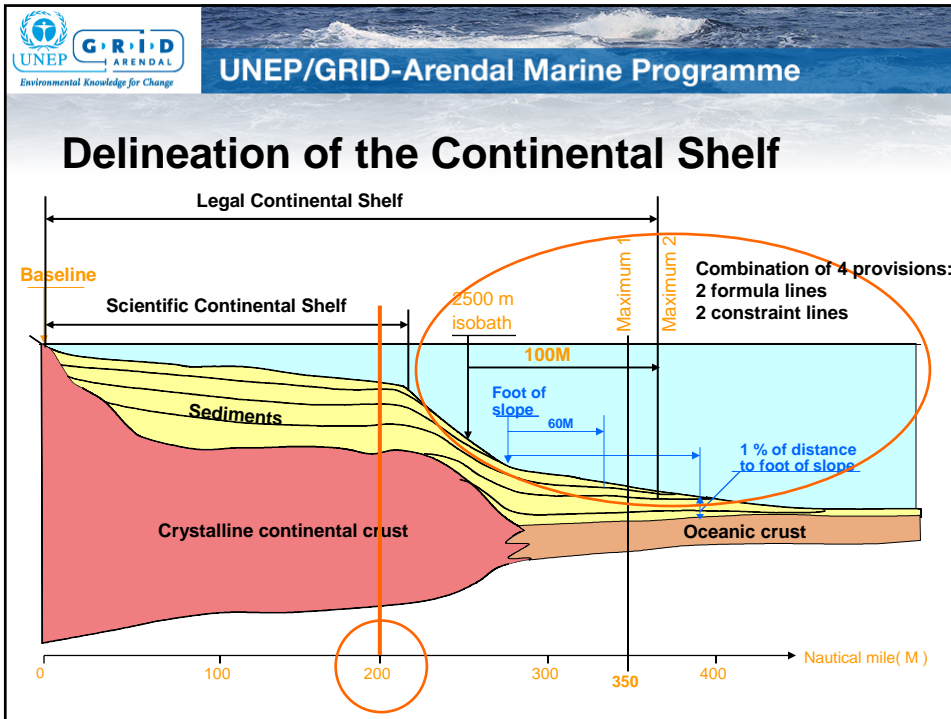
**Gathering existing data for the next
“seabed rush”:
the UNEP Shelf Programme can help**

**The World Ocean in Globalization:
Challenges for Marine Regions
Oslo, Norway
21 – 23 August, 2008**

**UNEP/GRID-Arendal
www.continentalshef.org**

Presentation overview

- 
- Delineation of the Continental Shelf
 - Challenges of developing states
 - The UNEP Shelf Programme and its support to developing states
 - The One Stop Data Shop
 - Capacity Building




UNEP/GRID-Arendal Marine Programme

Overall challenges of Least Developed Countries (LDC)

- Low incomes
- Weak human assets (Nutrition; Health; School enrolment; Adult literacy)
- Economic vulnerability (Instability of agricultural production; Instability of exports of goods and services; Diversification from traditional economic activities; Merchandise export concentration; Economic smallness)

Overall challenges of Small Island Developing States (SIDS)

- Small populations
- Lack of resources
- Remoteness
- Susceptibility to natural disasters
- Excessive dependence on international trade
- Vulnerability to global developments
- Lack of economies of scale
- High transportation and communication costs
- Costly public administration and infrastructure

Challenges of developing states towards the Continental Shelf

- Lack of awareness on the responsibilities and obligations regarding UNCLOS and Article 76
- Lack of awareness of the area and resource potential of Continental Shelf beyond 200 M (cost benefit analysis)
- Political and strategic timing constraints - National prioritization of budgeting
- Delineation project leadership and steering
- Securing long term funding for the project
- Lack of institutions and agencies to implement
- Agreement/coordination between stake holders

Challenges of developing states towards the Continental Shelf

- Availability of infrastructures
 - Data management, visualization and analysis facilities
 - High speed digital communication networks
- Availability of technical expertise
 - Managers (project, finance, contract, HR)
 - Experts (LOS, database, GIS, cartography, bathymetry, geology, geophysics, surveyors, documentation)
- Data coverage on the Continental Shelf
 - Bathymetry
 - Sediment thickness (seismic data)

The UNEP Shelf Programme mandate


- Resolution 57/141 from the 57th UN General Assembly 2002
- “Calls upon the United Nations Environment Programme, working within the **Global Resource Information Database (GRID) system**... .. to store and handle research data from the outer continental margin... ..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;”

UNEP Shelf Programme history

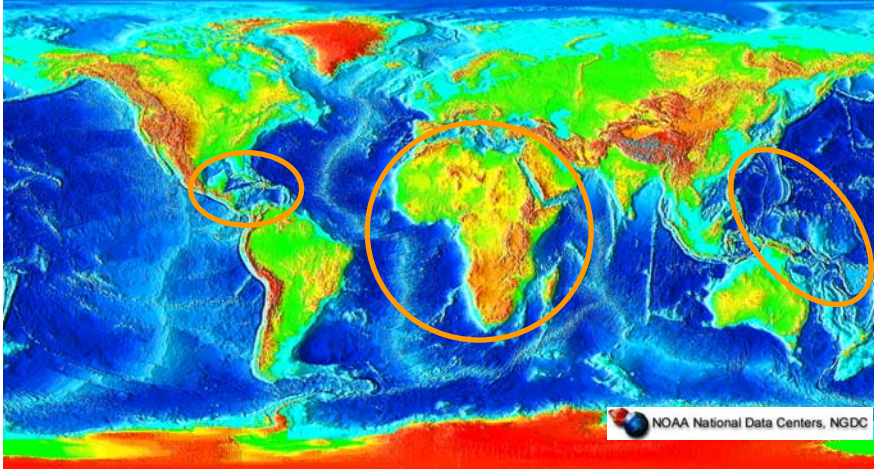
- The mandate was adopted by UNEP - DEWA that called on GRID-Arendal (Norwegian non-profit organization) to coordinate the work on behalf of the GRID system
- Preparation phase 2002-2004
- UNEP Shelf Programme established in 2004
- Funding primarily from the Norwegian Ministry of Foreign Affairs
- Assistance to coastal states 2004 onwards

The UNEP Shelf Programme focus


- Technical challenges of developing states, (LDS and SIDS) in the preparation of submissions to the CLCS including:
 - the assessment of the existence of a continental shelf beyond 200 M (appurtenance test)
 - Desktop study
 - Full submission including the mapping of the outer limits of its continental shelf


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Regional approach – but not limited



NOAA National Data Centers, NGDC



UNEP/GRID-Arendal Marine Programme

Africa




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Excl. Econ. Zone boundaries are shown only for reference purposes. Not officially recognized boundaries. Reference: Global Maritime Boundaries Database, <http://www.gd-ais.com>



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Latin America & Caribbean

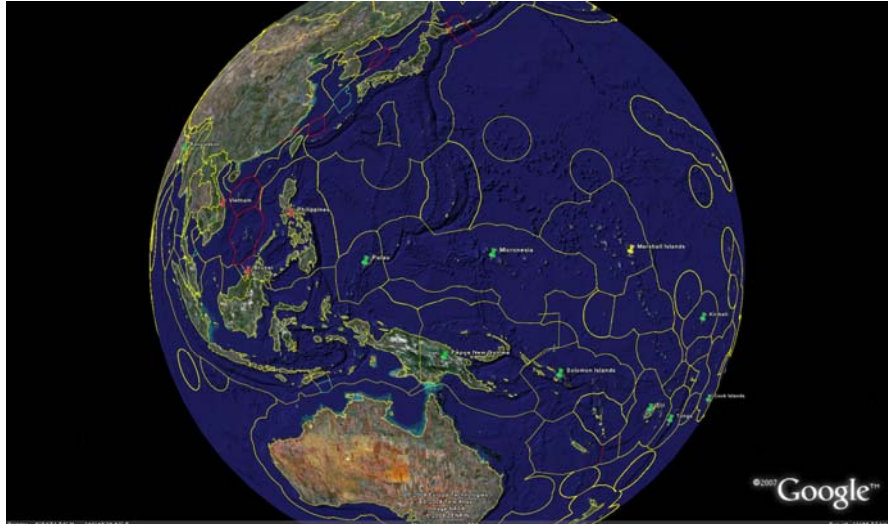


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South East Asia and South Pacific

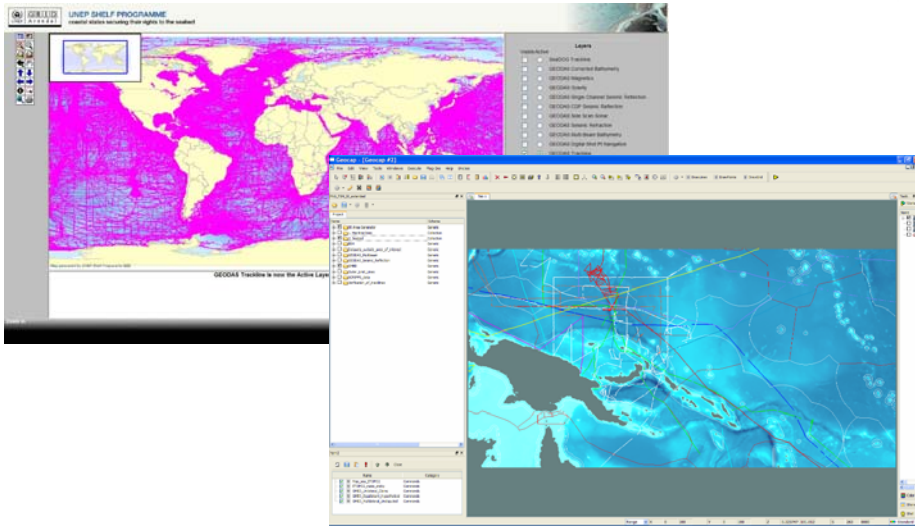



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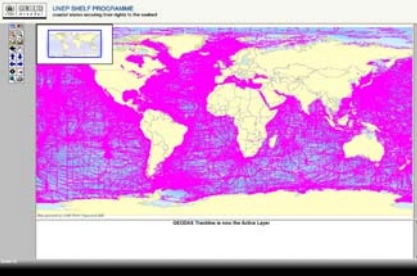
One Stop Data Shop




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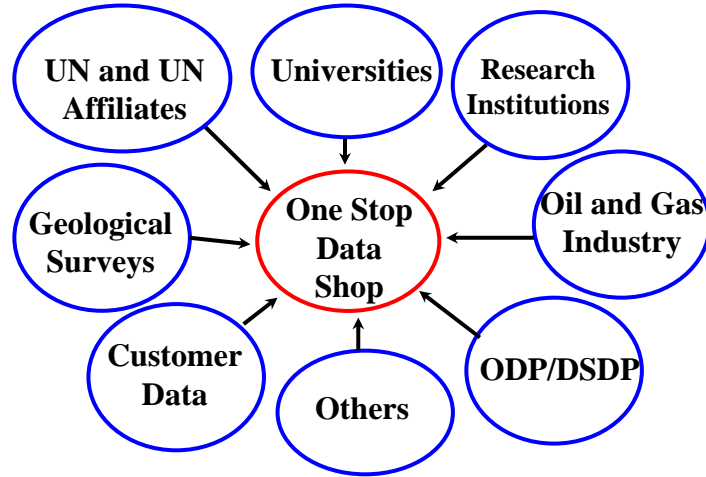
Data compilation at the “One Stop Data Shop”

- Global public marine geoscientific data inventory
- Relevant data identification and gathering
- Access and distribution agreements with data holders




<http://maps.continentalshelf.org/>

OSDS Input: Data Sources



OSDS Input: Data partnerships

- IFREMER,
- IPGS,
- BGR,
- BSH,
- NOC,
- NGDC/GEODAS
- LDEO
- SCRIPPS,
- WHOI,
- JAMSTEC,
- JODC,
- IODP,
- UTIG,
- USGS


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Data access through the “One Stop Data Shop”

- Official request from developing states for specific data
- Data compilation and provision
- Data formats and data handling

PROJECT ID: 14163

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07 October 2007
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
Dear Madam,


ASSISTANCE REQUEST FOR SEYCHELLES

I am in reference to the United Nations General Assembly resolution where one condition was mandated to assist States with data for delineation of its extended continental shelf.

The Government of Seychelles hereby applies for assistance from GRID Arendal in this regard, particularly the available expertise in the area defined by the coordinates 02° 45' 00" S 75° 00' 00" E for the purpose of cooperation in order to realize the area beyond of the continental shelf of Seychelles. This will result in the mapping of the extended continental shelf of Seychelles.


I would be grateful for your kind consideration and would like to also thank you in anticipation of a positive response.

Thanking you,
 Yours faithfully,

 Jean Fabrice
 Director, AUC/STP

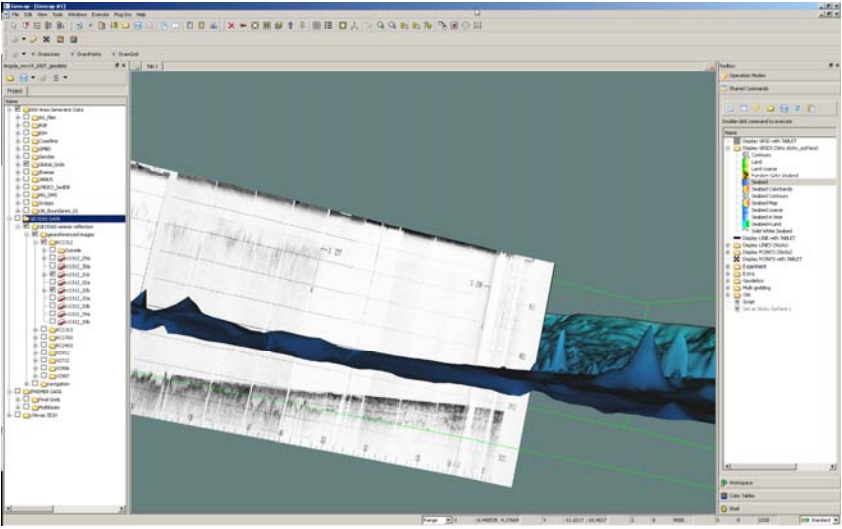

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OSDS: Data project preparation

- Determine available data (public web tool, and in-house Area Generator)
- Digital data compilation using dedicated software platform
- Interpretation and analysis

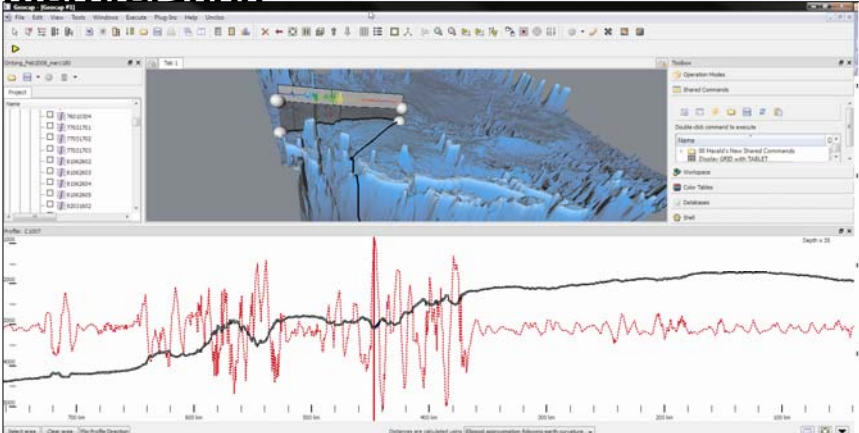

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OSDS Tools: visualization and interpretation




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OSDS Tools: visualization and interpretation



Depth in 20

Latitude	Longitude	Depth	200m distance	First average steepness	Second average steepness	Profile distance
59°20'26.56"N	15°04'41.77"E	389.0m	7.91229e-06	2.897	44888.08	
59°20'32.75"N	15°04'47.26"E	248.0m	6.28179e-06	1.291	27628.51	
59°20'40.87"N	15°04'44.07"E	204.0m	5.52222e-06	0.241	62846.52	
59°20'49.76"N	15°04'40.17"E	147.0m	6.47617e-06	1.775	44888.08	

Capacity building

- Training courses / workshops
 - “Hands-on” training
 - Laptop computers
 - Dedicated software
 - Data intensive





UNEP/GRID-Arendal Marine Programme

Capacity building

- Provide advice and support on project planning and management
 - Project organigram and composition
 - Fund raising
 - Identifying funding agencies and calls
 - Develop funding proposals
 - Asses the need for additional data
 - Tendering and bid evaluation
 - Observe data acquisition
- Provide advice on technical aspects of a submission



How can you reach us?

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