



United Nations
Educational, Scientific and
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Organisation
des Nations Unies
pour l'éducation
la science et la culture

Organización
de las Naciones Unidas
para la Educación
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования
науки и культуры

• Intergovernmental
Oceanographic
Commission

• Commission
océanographique
intergouvernementale

• Comisión
Oceanográfica
Intergubernamental

• Межправительственная
океанографическая
комиссия

IODE: Overview & Coastal Atlas Development

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Co-Chair, IODE Committee

ICAN Workshop on Federated Coastal Atlases, Copenhagen, 7-9 July 2008

Overview

- What is IOC
- Roles and functions of IODE
- Data sharing policy
- Data standards
- OceanDataPortal
- Capacity building activities
- Regional Atlas products



Intergovernmental Oceanographic Commission (IOC)

- IOC: body within UNESCO (Science Sector)
- Composed of Member States (136), an Assembly, an Executive Council and a Secretariat (based in Paris)
- Field Offices
 - Colombia, Brazil, Thailand, Kenya, Denmark, Belgium, Australia

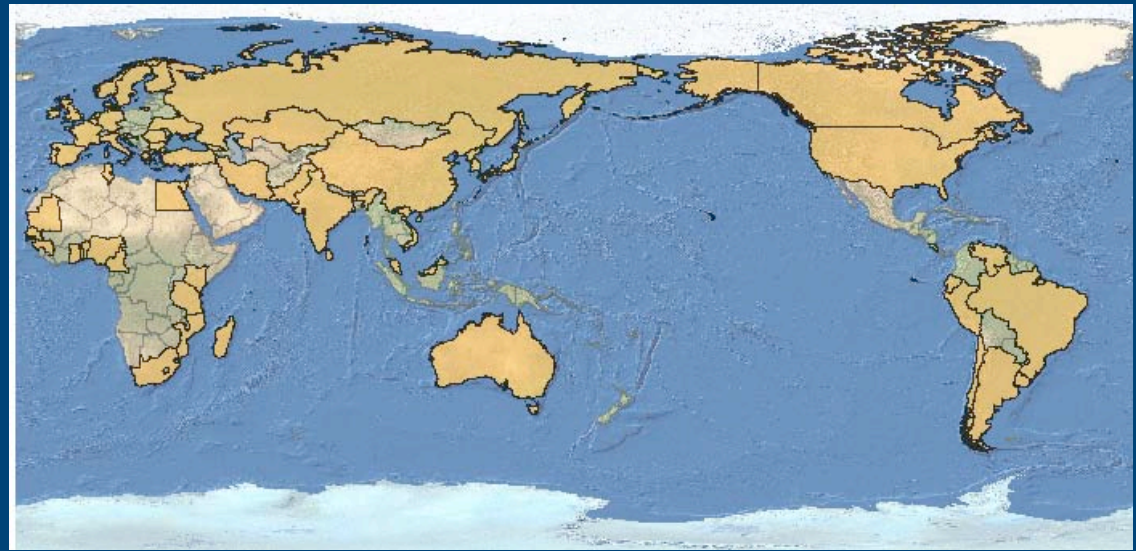


IOC Structure



International Oceanographic Data & Information Exchange Programme (IODE)

- Established in 1961 *'to enhance marine research, exploitation and development **by facilitating the exchange of oceanographic data and information between participating Member States** and by meeting the needs of users for data and information products'*
- Network of 76 National Oceanographic Data Centres



Role of the IODE NODC

- National Oceanographic Data Centre (NODC) facility for providing ocean data and information in a usable form to a wide user community
 - National: acquire, process, quality control, inventory, archive and disseminate data
 - International: data exchange across IODE network

IOC Data Policy

- IOC Oceanographic Data Policy: adopted in 2003
- Members shall provide **timely, free and unrestricted access** to all data, associated metadata and products generated under the auspices of IOC programmes



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IOC Data Strategy

- 2007: IOC Assembly adopted the “IOC Strategic Plan for Oceanographic Data and Information Management”
- *Vision: A comprehensive and integrated ocean data and information system, serving the broad and diverse needs of IOC Member States, for both routine and scientific use.*



Strategy Deliverables

- Well documented standards and formats
- Assembled, quality controlled and archived data
- Easy discovery and access to data
- Timely dissemination
- Reliable long-term preservation
- Collaboration with other intergovernmental bodies
- Efficient and equitable access to data



Data Standards

- Data Standards is one of the most critical elements for IODE
- Provide interoperability with other data centres and ability to share data
- IODE is leading an initiative to achieve broad agreement and commitment to adopt a number of standards related to ocean data management and exchange



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Data Standards Forum

- IODE/JCOMM Forum on Oceanographic Data Management and Exchange Standards
 - Held at the IOC Project Office for IODE, Oostende, Belgium, 21-25 January, 2008
- The meeting discussed a number of standards related to oceanographic data management and exchange
- The meeting agreed on a "Standards Process" for accepting submissions of proposed standards and following these through to a recommendation



Data Standards

- Further details, including the report of the meeting, are available on the web site

www.oceandatastandards.org



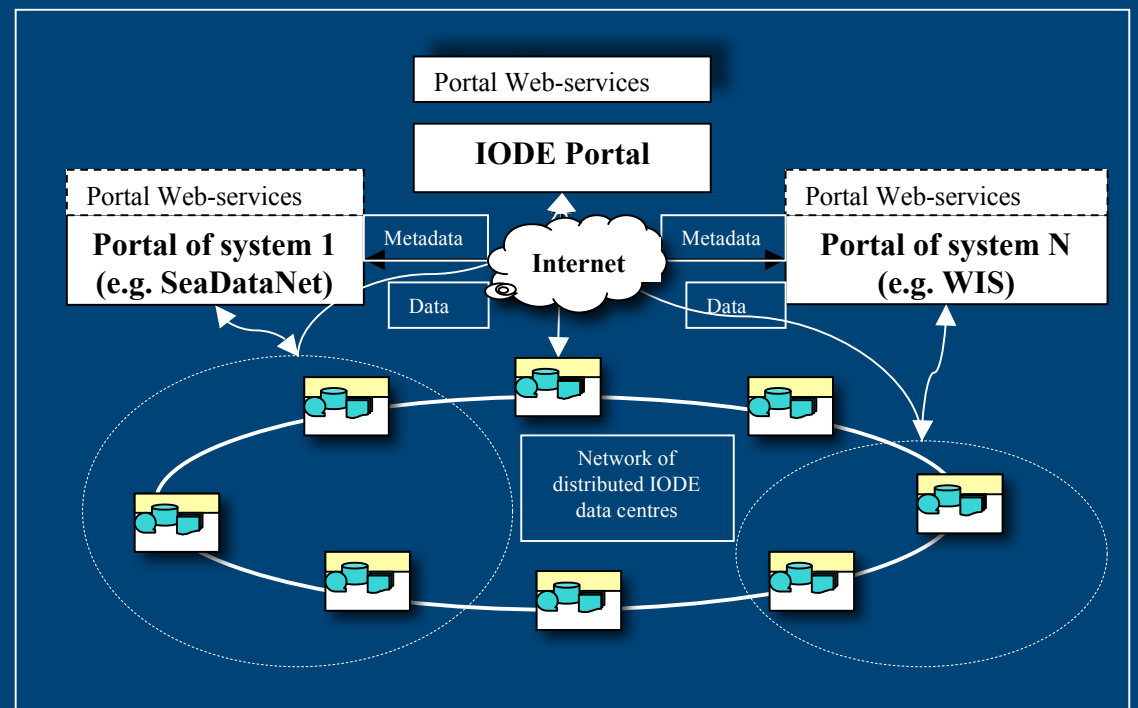
OCEAN DATA
STANDARDS



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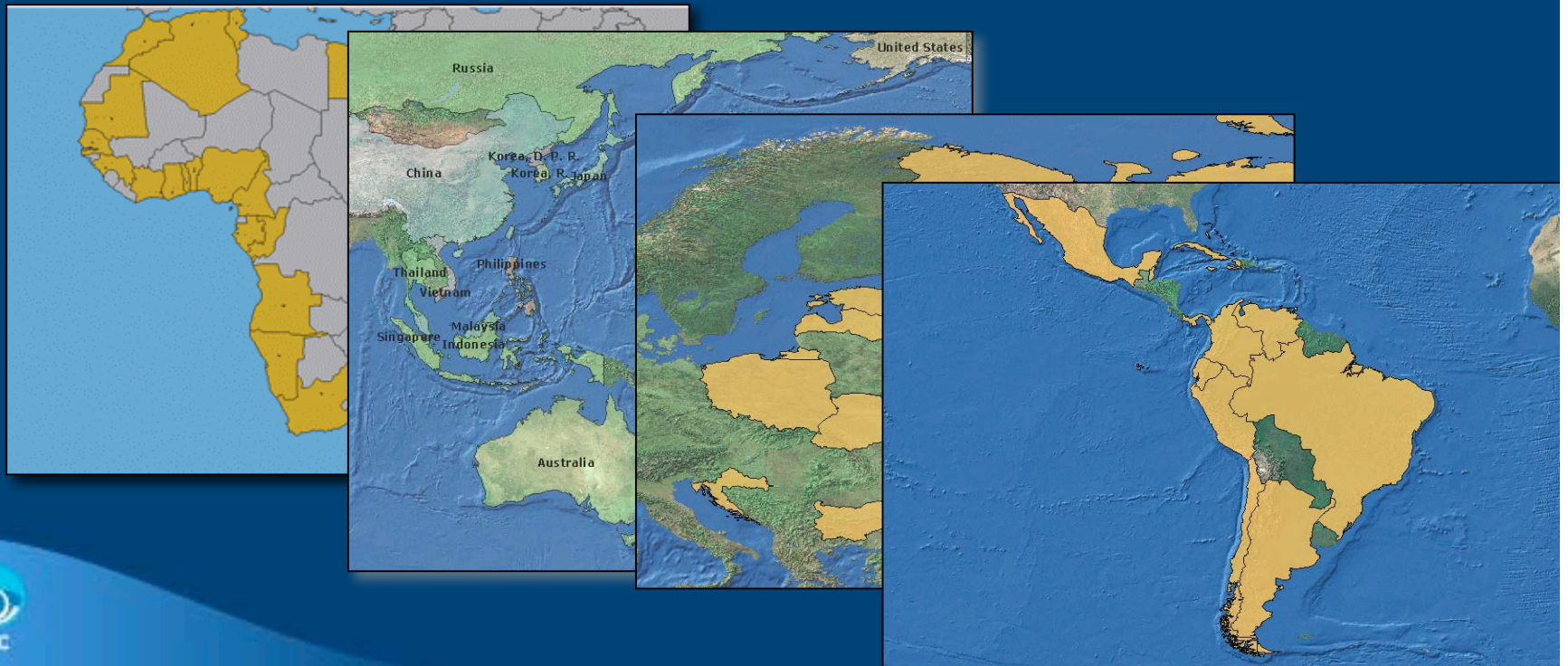
Data Distribution

- Ocean Data Portal
 - standards-based infrastructure to provide integration of marine data from a network of distributed NODCs
 - provide on-line access to the marine data and information resources of the participating data centres including



Capacity building

- Cornerstone of IODE programme
- Ocean Data and Information Networks (ODIN)
- Linking training, equipment, operational support
 - Regional context



Training Tool: Ocean Teacher

- Training resource for marine data and information management
- Audience:
 - data/information managers
 - ocean researchers
 - university students
- Increasing focus on continuous professional development

<http://www.oceanteacher.org>



The screenshot shows the OceanTeacher website homepage. At the top, there is a navigation bar with the OceanTeacher logo and the tagline "A Training Resource for Data & Information Management Related to Oceanography & Marine Meteorology". Logos for IODE and jcomm are also present. Below the navigation bar is a banner image showing a person looking at a computer screen with binary code overlaid. A navigation menu includes links for Home, What is OceanTeacher?, Digital Library, Registering, Alumni Monitor, News, and Contact Us. The main content area is divided into several sections: "What is Oceanteacher?" (Find out more about the objectives...), "The Digital Library" (Your reference resource), "The Course Prospectus" (Find out what courses are available online or as training courses), "Registering for Courses" (Register for the online courses or find out how to apply for our training courses), "Information for Content Providers and Lecturers" (We welcome experts who can contribute content and/or lecture during our training courses), "Ocean Teacher Alumni" (Find out more about your fellow students), and "Video Library" (View courses from the comfort of your chair). On the right side, there is a photo of a training center with people at computers and a "News & Events" section with three entries: "16 March 2007: The new version of OceanTeacher is officially launched at IODE-XIX in Trieste (Italy).", "17 April 2007: A new training course on GIS and Remote Sensing is now available in OceanTeacher.", and "15 May 2007: New video lectures from the E-repository training course are now online."

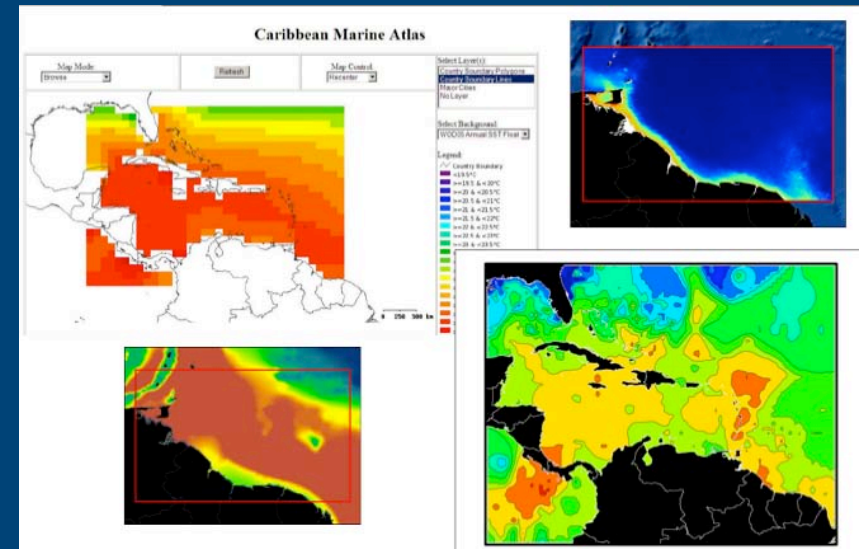
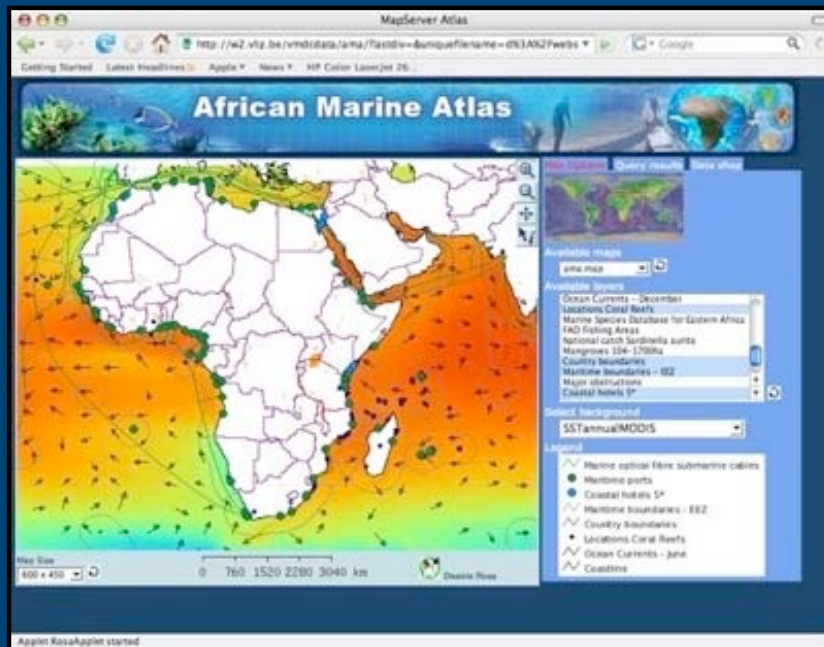
Training Centre

- IOC Project Office for IODE
 - Based in Ostend, Belgium
- International Training Centre
- International Conference Centre
- Data/information services hub
 - 2005-2008: > 500 students from >100 countries
 - Approx. 15 events per year



ODIN Regional Atlases

- African Marine Atlas
- Caribbean Marine Atlas



IODE and ICAN

- IODE Workshop on Coastal Atlas Requirements
 - Held February 2008
 - Participants from ICAN, IODE Atlas projects
 - Discussed atlas development and interoperability and how to further develop the African and Caribbean Marine Atlases
- ICAN can assist to build distributed digital atlases for the IODE community based on the principle of sharing information



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