Long term preservation and stewardship of Marine Data
SEADATANET
Pan-European infrastructure

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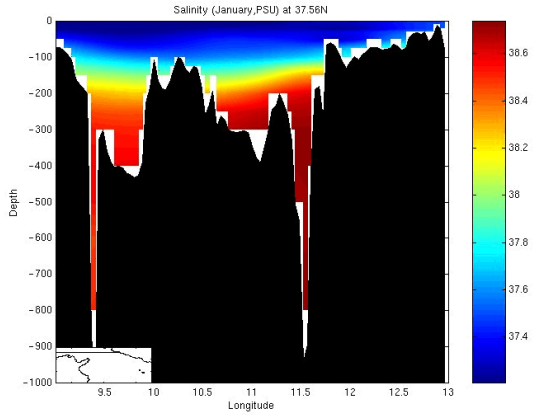
Third European Conference on Research Infrastructures
6 & 7 December 2005, Nottingham, UK



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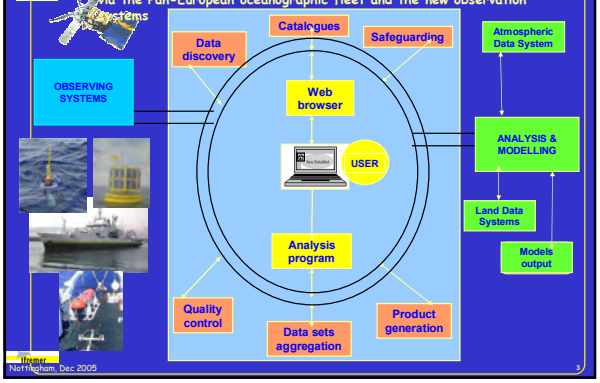
Objective: to develop an efficient data management system for the present and future ocean observing and forecasting programmes, able to handle the diversity and large volume of data collected via the Pan-European oceanographic fleet and the new observation systems



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SEADATANET Consortium represents a unique group of 49 partners from in-situ and satellite oceanographic data centres hosted by major oceanographic institutes of 35 countries bordering the Baltic, the Black Sea, the Mediterranean and the North-East Atlantic, modelling centres, IOC and ICES

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experienced in data management

- **Data management structure of several scientific projects: MTPII-MATER, CANIGO, OMEX, MERSEA ..**
- **Leaders of Data Management Concerted Actions**
  - **MEDAR/MEDATLAS II - Mediterranean Data Archaeology and Rescue,** aiming to make available a comprehensive data product of temperature, salinity and bio-chemical data in the Mediterranean and Black Sea through a wide international cooperation
    http://www.ifremer.fr/medar
  - **SEA-SEARCH – The gateway to Oceanographic and Marine Data & Information in Europe,** to provide an effective navigation tool to oceanographic and marine data and information sources for European marine waters and to centres in Europe with expertise and skills in oceanographic and marine data & information management.
    http://www.sea-search.net/
  - New partners
- **Satellite data centres**

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Work Plan

Three types of activities

- I- Networking
- II- Transnational integrated access to data, meta-data and products
- III- Joint research to develop and improve the system

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I- Networking activities (NA)

-> aim to managing, organizing and promoting the infrastructure

- Project Management
- Organization and Monitoring of the distributed infrastructure
- Training and Capacity building
  - Software sharing, assistance and training
  - Workshops on Data qualification & Communication standards
- Maintenance and update of the European Directories
  - Cruises Summary Reports
  - Marine Data sets of the laboratories
  - Observing systems (EDIOS)
  - Project inventory (EDMERP)
  - Common Data Index (CDI)
- Communication
  - Users Marketing & feedback-Data providers & Users Fora
  - International Conferences

CSRRetrieval

EDMED Visit the EDMED Database

EDIOS European Directory of the Ocean-observing System EuroGOOS

EDMERP Visit the EDMERP Database

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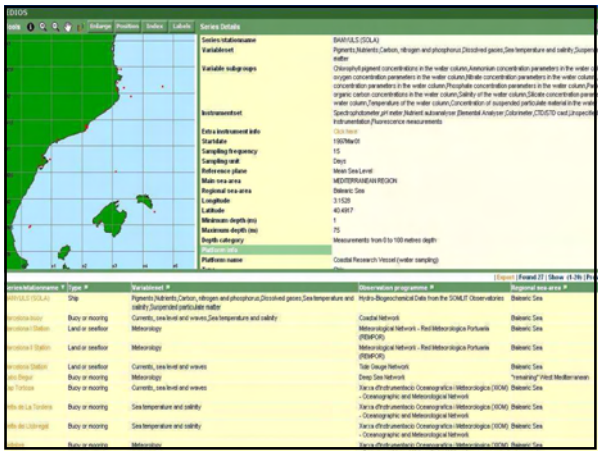

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II - Transnational Access Activities

On-line data & information service

Phase V0: each DC interrogated and sending nonstandardized data separately

Phase V1= Preliminary version installed on 11 interoperable test platforms

- Anavyssos platform
- Brest platform
- Hamburg platform
- La Spezia platform
- Norrkoping platform
- Obninsk platform
- Madrid platform
- The Hague platform
- Swindon platform
- Toulouse platform
- Trieste platform

V2: Final version installed by step on the other data platforms

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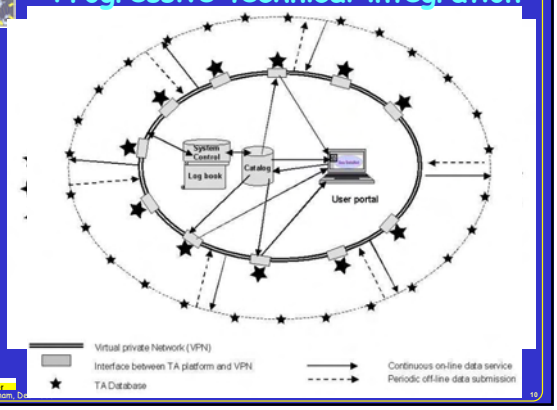
Progressive technical integration



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III-Joint Research Activities

to develop the distributed system **that incorporates and enhances, the currently existing infrastructures and technology**

- JRA1: Development of standards
- JRA2:Technical development of the interoperable system
- JRA3: Development of Portable data management software based on ODV (AWI) for capacity building and training
- JRA4: Development of geostatistic software (based on GHER VIM) for production and qualification of Regional & global statistical products
- JRA5-JRA9: Products preparation & qualification

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JRA1: Standard development

in cooperation with the ad hoc international authorities (ICES, IOC, JCOMM)

- for communication of meta data, observation data and gridded data (ISO, Marine XML)
- Common intercalibrated methodology for data and products quality control
  - Automatic and visual checks

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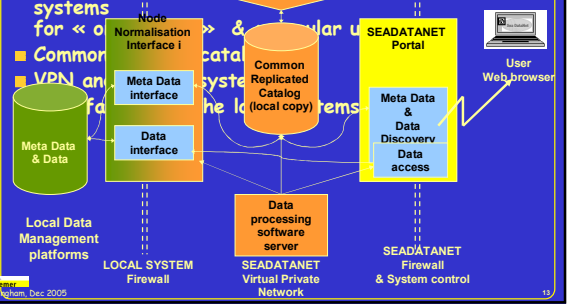
JRA2: Development of the Interoperable system components

- Portal and other sea[illegible] dissemination systems for « o[illegible] » & [illegible]ular u[illegible]
- Commor[illegible] catal[illegible]
- VPN an[illegible] syste[illegible]



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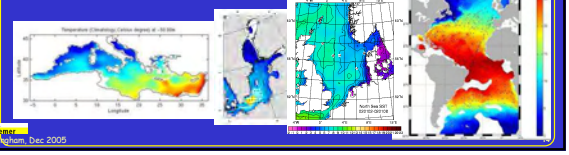
Products Development

These activities will allow:

- To widen the data dissemination
- To check the system operability
- To cross-check the data
- To check the coherence and compatibility of existing products.

They include:

- Development of common geostatistics methodology & software for computing and/or checking the regional gridded fields and statistics software (JRA4, based on GHER VIM)
- Products preparation over five zones: the Mediterranean (JRA5), the Black Sea (JRA6), the Baltic (JRA7), the [illegible] Seas (JRA8) and the Atlantic and Global ocean



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Project information

- www.seadatanet.org

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Thanks for your attention

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