



SeaDataNet: Development of a Pan-European infrastructure for ocean and marine data management

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SEADATANET is developing a Pan-European data management infrastructure to insure access to a large number of marine environmental data (i.e. temperature, salinity current, sea level, chemical, physical and biological properties), safeguard and long term archiving. Data are derived from many different sensors installed on board of research vessels, satellite and the various platforms of the marine observing system. SeaDataNet allows to have information on real time and archived marine environmental data collected at a pan-european level, through directories on marine environmental data and projects.

SeaDataNet allows the access to the most comprehensive multidisciplinary sets of marine in-situ and remote sensing data, from about 40 laboratories, through user friendly tools. The data selection and access is operated through the Common Data Index (CDI), XML files compliant with ISO standards and unified dictionaries.

Technical Developments carried out by SeaDataNet includes:

A library of Standards - Meta-data standards, compliant with ISO 19115, for communication and interoperability between the data platforms.

Software of interoperable on line system - Interconnection of distributed data centres by interfacing adapted communication technology tools.

Off-Line Data Management software - software representing the minimum equipment of all the data centres is developed by AWI "Ocean Data View (ODV)".

Training, Education and Capacity Building - Training 'on the job' is carried out by IOC-Unesco in Ostende. SeaDataNet Virtual Educational Centre internet portal provides basic tools for informal education