

Oceanographic data and information management system for monsoon study for Indian Ocean

Gudimetla .V. Reddy and J.S. Sarupria

National Institute of Oceanography, India Oceanographic Data Centre, Goa, India

reddy@darya.nio.org

The Indian Oceanographic Data Centre (IODC) of the National Institute of Oceanography (NIO), Goa has been involved with the management of Oceanographic data for many years. Data delivery to end users has been supplemented by the production of user-friendly software systems, interfaces to project data sets collected in various Monsoon Experiments viz: Indo – Soviet Monsoon Experiment (ISMEX – 73), Monsoon Experiment (MONEX – 77&79), Monsoon Trough Boundary Layer Experiment (MONTBLEX –90), Bay of Bengal Monsoon Experiment (BOBMEX –99), Arabian Sea Monsoon Experiment (ARMEX – 01) etc. A multidisciplinary integrated data/information management system has been developed ,which revolves around a common meta data inventory base. Meta data refers information that are used to describe the data inventory information which includes information who (responsible for data collection), when (time, date etc.) where (locations, name of the place) and what (parameter/sample name and details) data were collected along with the documentation .. The system provides general catalogues and selected retrieval of data/information using multi parameter selection criteria. Since the system is completely computerized the data/information can be distributed through electronic media and network such as Internet, World Wide Web, CD-ROM etc. The system has been tested and used to satisfy the queries on monsoon related data sets by user community, including data managers, data modelers, researchers, Government agencies. A considerable voluminous amount of oceanographic data sets for 5215 stations pertaining to 62 cruises collected during monsoon period since 1960 are included. The parameters includes are surface meteorology, Nansen cast, STD, C/STD, MBT, XBT, Dissolved Oxygen, Nutrients, Ph etc. The system developed is interfaced with INGRES – a relational data base .

Thursday III (Talk)