INTERGOVERNMENTAL OCEANOGRAPHIC COMISSION
(of UNESCO)

Eighteenth Session of the IOC Committee on International Oceanographic Data and Information Exchange (IODE-XVIII)
Oostende, Belgium, 26–30 April 2005

IODE NATIONAL REPORT ON OCEANOGRAPHIC DATA MANAGEMENT AND EXCHANGE FOR REPUBLIC OF KOREA
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1. Name of Data Centre:
   Korea Oceanographic Data Centre (KODC)

2. National IODE Coordinator:
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3. Data Center Address:
   As above

4. Data Center URL:
   http://kodc.nfrdi.re.kr

5. IODE Data Center Designation Date:
   1974

6. Description of national data flow:
   KODC has been fulfilling the role of oceanographic data bank of Korea in collecting important and useful data and providing users with those data

   1. Metadata management:
      o The Korea Oceanographic data and Information Inventory System(KODIS), an integrated oceanographic data and information at the national level, is founded on XML base and its DTD structure follows the Marine Environmental Data Inventory(MEDI) of the IOC project for future data exchange between MEDI and our system.
      o ROSCOPs are sending to JODC (Japan Oceanographic Data Centre), RNODC in west Pacific.
      o There are several monitoring systems ; the bimonthly serial observation at the oceanographic stations, the daily coastal observation and SST mapping by remote sensing technique, coastal oceanographic real-time information system,

   2. Data tracking:
      o The KODIS has been developed for the efficient data (meta-data) management and providing in Korea and also for promoting oceanographic data and information exchange among IOC member states, especially with IODE.

7. What is the structure of marine data management in your country:

   1. How many organizations are involved?
      In Korea, oceanographic observations including environmental monitoring have been carried out by several organizations, National Fisheries Research & Development Institute (NFRDI), National Oceanographic Research Institute (NORI), Korea Ocean Research and Development Institute (KORDI), National Maritime Police Administration (NMPA) and Korea Institute of Geology, Mining and Materials (KIGAM).

   2. Who does what?
NFRDI, NORI, KORDI, NMPA and KIGAM have been carried out oceanographic, hydrographic, geophysical and meteorological surveys.

3. What data goes where?
   Korea Oceanographic Data Centre (KODC) operated by NFRDI is in charge of the National Delayed Mode Data Base (NDMDB) management and services, and KORDI is in charge of the National Real Time Data Base (NRTDB) management and services for NEAR-GOOS. In addition, KODC provides the readership to the management of physical, chemical and biological data collected by the national oceanographic program as well as acting as the Designated National Oceanographic Data Management Agency (DNODMA) of MOMAF

4. Are there data for which there is no home?

5. What gets passed on to other organizations?
   National Oceanographic Program is submitted to IOC. TESAC and ROSCOPs are JODC.

6. What regional links and data centres are there?
   NEAR-GOOS, NOWPAP, GODAR-WESTPAC

8. What are the strengths and problems of the present arrangements nationally, regionally and internationally?:

9. What improvements could be made nationally, regionally and internationally?:
   - Collection and exchange of data (metadata) among the national organizations to share
   - Enhancement on international cooperation between neighboring countries

10. What future national activities are planned?:
    - Establishment of delayed mode DB of ARGO
    - Establishment of NOWPAP MetaDB
    - Connection with North Pacific Ecosystem MetaDB (NPEM) of PICES
    - Establishment of monitoring system of aquacultural environments

11. What national, regional or international projects is your NODC involved in (both IODE and non-IODE). Examples: Argo, GTSSP, EDMED, EDIOS, Sea-Search, GODAR,...
    - Operating of NEAR-GOOS, NOWPAP and ARGO DMDB
    - Operating National base GODAR-WESTPAC
    - Establishing NPEM of PICES