

## DATA MANAGEMENT GROUP

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**The Data Management Group (DMG) is a separate group within the department of Physical Oceanography, funded by ALW and NIOZ.**

**It has a national role as data centre for the academic oceanographic community. It also acts as National Antarctic Data Centre (NADC).**

**The main tasks of the DMG are to:**

- \* assist scientists during all phases of a project with data handling**
- \* archive and keep available and accessible all relevant data of ALW and NIOZ cruises.**

**In 2004 the DMG concentrated its activities on improving the data management infrastructure. The adoption of a new institute-wide content management system, in conjunction with a very strict security policy, made it necessary for the DMG to rewrite and re-engineer its entire information system completely.**

**The DMG also invested in additional equipment, such as an internal webserver, a workstation to write DVD-RAM format and a DVD-Duplicator.**

The DMG contributed to the development of the new institute web site with technical assistance. Larger parts of the new web site were made and are being maintained by DMG staff. In addition to this, software was developed to gain an overview of the archive CDs and DVDs and support was given for the in-house developed mooring software. Staff of the DMG contributed in the testing and development stage of the new Track & Trace software, designed to perform the logistical administration of all equipment used on board the research vessels.

Another ongoing activity is assistance of scientists with data handling questions. Many requests for data and (graphical) data products, both from within the institute as from outside, were answered. These requests are very diverse and range from questions from the Indian Government on NIOP data to obtaining historical sea bottom temperatures from the coastline south of Den Helder. Answering these requests fits perfectly in the end-to-end data management philosophy, adopted by the DMG since its inception.

During the CRENS2004 and the LOCO-IW cruises, the DMG assisted the scientists onboard with the delivery and interpretation of remote sensing data and weather information, in cooperation with M. Wernand.

Staff of the DMG participated in the LOCO-IW cruise, as well as in several 13-hours cruises within the Marsdiep-project. Part of the post processing of the CTD data for these and other cruises, was carried out by the DMG.

All relevant digital data, collected during the Pelagia cruises, have

been archived on CD-ROM or DVD and are stored in a safe, for use in case of permanent loss of data by the scientist. Following technical developments and due to the increased size of the collected datasets, the DMG is migrating from the use of CD-ROMs to DVDs.

Besides this archive on CD-ROM/DVD the DMG also maintains a series of databases and project web sites and pages. Part of these are dynamically linked.

One of the highlights of 2004 has been the development of COREBASE (<http://www.nioz.nl/corebase>) in close cooperation with the Department of Marine Chemistry and Geology. COREBASE is an online archive of stored cores which was developed to give a detailed inventory of the cores, their status and the analyses, performed on those cores. COREBASE also

contains high resolution images of cores obtained from the XRF-CoreScanner.

Furthermore, web sites for the secretariats of the NODC and the International Research Ship Operators' Meeting (ISOM) are maintained by the DMG.

The DMG databases residing in Sybase have been queried through the DMG web pages by an average of more than 15000 times per month.

The success of the newly developed CoreBase is shown by the fact that currently 30% of these queries are directed to this database.

The DMG represents NIOZ and the Dutch academic oceanographic community within the National Oceanographic Data Committee

(NODC). The DMG representative is the NODC Chairman.

As participant in the NODC, NIOZ actively participates in international projects and organisations like the EU-SeaSearch project, the IOC Committee on International Oceanographic Data and Information Exchange (IODE) and the ICES-Working Group on Marine Data Management.

An additional task of the DMG is the development and maintenance of the Netherlands Antarctic Data Inventory (NADI, <http://www.nadi.nl>) for the Antarctic research projects in the Netherlands. One member of the staff represents the Netherlands in the Joint Committee on Antarctic Data Management (JCADM), which currently has representation from 26 countries. He was elected as JCADM Chief Officer during the meeting in Bremen in July.

Cruise number	Project	Departure	Arrival	Specific area	Chief scientist
64PE222	COMAREC	Feb. 9, Texel	Feb. 13, Texel	North Sea	Ir. M. Bergman
64PE223	COMAREC	Apr. 3, Texel	Apr. 7, Texel	North Sea	Ir. M. Bergman
64PE224	CRENS	Apr. 16, Texel	Apr. 20, Texel	North Sea	Dr. L. Herfort
64PE225	CANYONS-2	Apr. 24, Texel	May 24, Toulon	NW Atl. Oc. / Med. Sea	Dr. H. de Stigter
64PE226	PASS-2	May 27, Toulon	Jun. 13, Iraklion	Mediterranean Sea	Prof. Dr. G. de Lange
64PE227	MEDIFLUX	Jun. 16, Iraklion	Jul. 11, Limassol	Mediterranean Sea	Dr. J. Woodside
64PE228	SAGA-Charter	Jul. 15, Limassol	Aug. 12, Cadiz	Mediterranean Sea	Hamburg University
64PE229	MOUNDFORCE-2004	Aug. 15, Cadiz	Sep. 15, Cadiz	NW Atl. Oc.	Dr. H. de Haas
64PE230	BADE-2	Sep. 17, Cadiz	Oct. 12, Las Palmas	NW Atl. Oc.	Prof. Dr. G. Herndl
64PE231	LOCO-IW	Oct. 15, Las Palmas	Nov. 13, Texel	NW Atl. Oc.	Dr. H. van Haren
64PE232	COMAREC	Nov. 22, Texel	Nov. 26, Texel	North Sea	Ir. M. Bergman



R.V. Pelagia cruises 2004

