

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.

The DMG maintains a series of databases and project web sites. Part of these are dynamically linked.

The emphasis of the DMG activities in 2003 has been on adding new CTD profiles to the central CODIS information system. The CODIS system now contains over 4200 temperature and salinity profiles, with more than 3 million data records and is accessible by Internet. As a result, the areal and temporal densities of the data holdings in the database make data mining feasible for certain regions. As shown in figs. 1 and 2 the density of data in both the Southern Bight of the North Sea and in the Bay of Biscay opens up possibilities for new research.

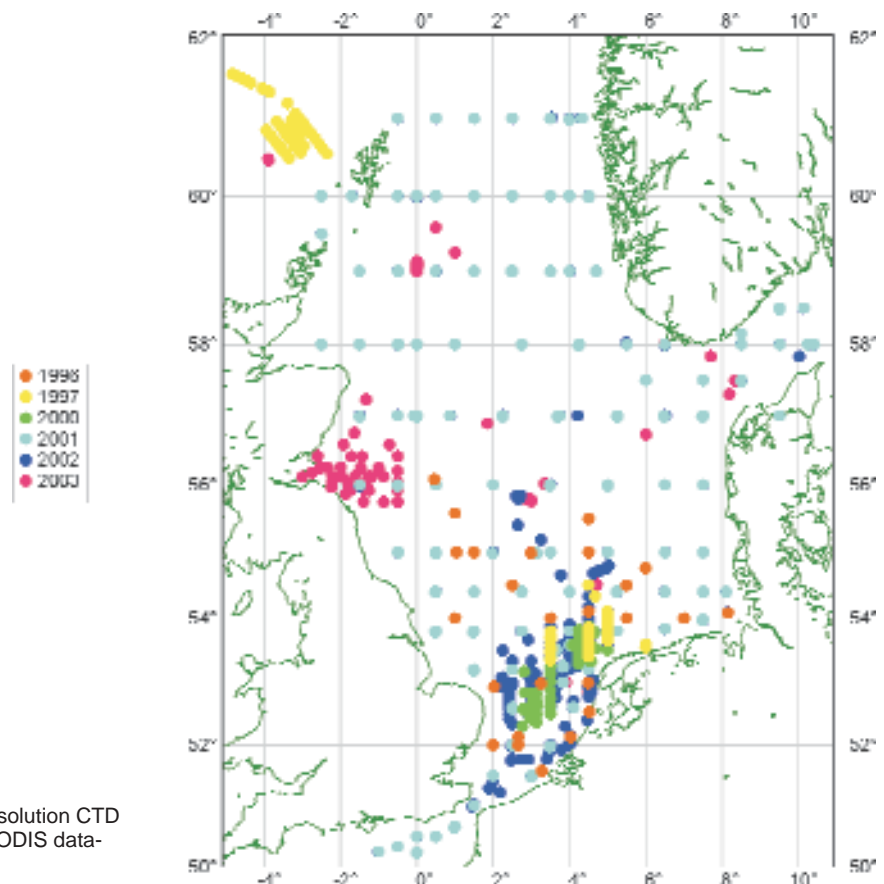


Fig. 1. Areal and temporal density of high-resolution CTD casts in the North Sea, as available in the CODIS data- and information system.

Another ongoing activity is assistance of scientists with data handling questions. Many requests for data, both from within the institute as from outside, were answered. These requests are very diverse and range from questions on support for a new research vessel for Peru to supplying all available NIOZ data to the final JGOFS data DVD. Answering these requests fits perfectly in the end-to-end data management philosophy, adopted by the DMG since its inception. During the TRANSAT-2, IMPRESS, MOMAP and BADE-1 cruises, the DMG assisted the scientists onboard with the delivery and interpretation of remote sensing data and other information, in cooperation with M. Wernand.

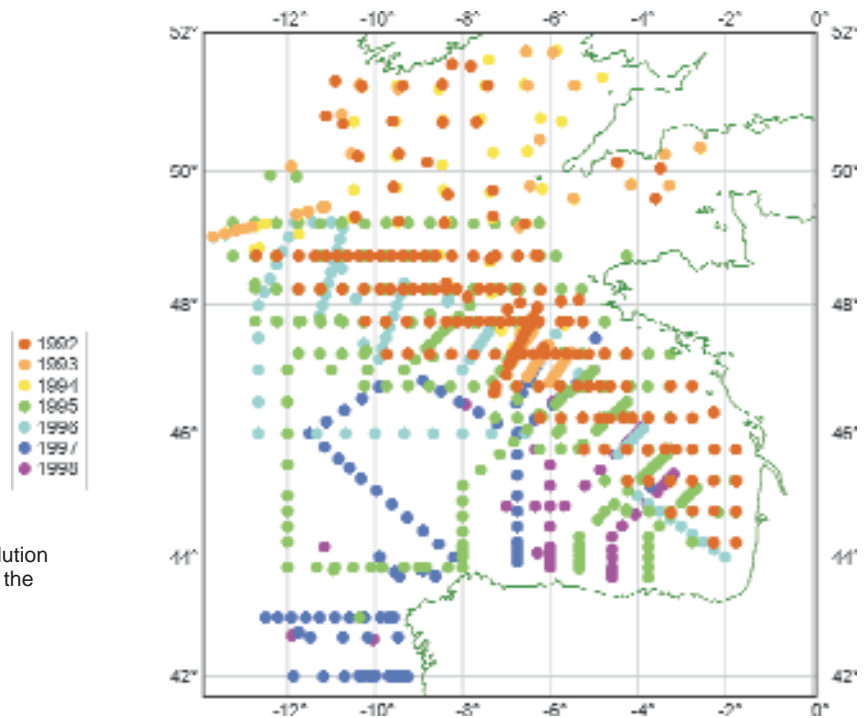


Fig. 2. Areal and temporal density of high-resolution CTD casts in the Bay of Biscay, as available in the CODIS data- and information system.

Staff of the DMG participated in 2 cruises, notably in the LOCO-IW and the CAMP/LOCO-cruises, as well as in several 24-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 acquired DVD-writers and has started the migration of the CD-ROM archive to DVD.

Besides this archive on CD-ROM/DVD the DMG also maintains a series of databases, most of these in connection with project web sites.

In 2003 the MOVE web pages were added to the project websites, which are built and maintained by the DMG (see also annual reports 2001 and 2002). The DMG also developed new web-enabled request forms for the Experimental Seawater Facilities. Besides, the DMG overhauled the IRONAGES web pages and contributed to the development of the NIOZ web site.

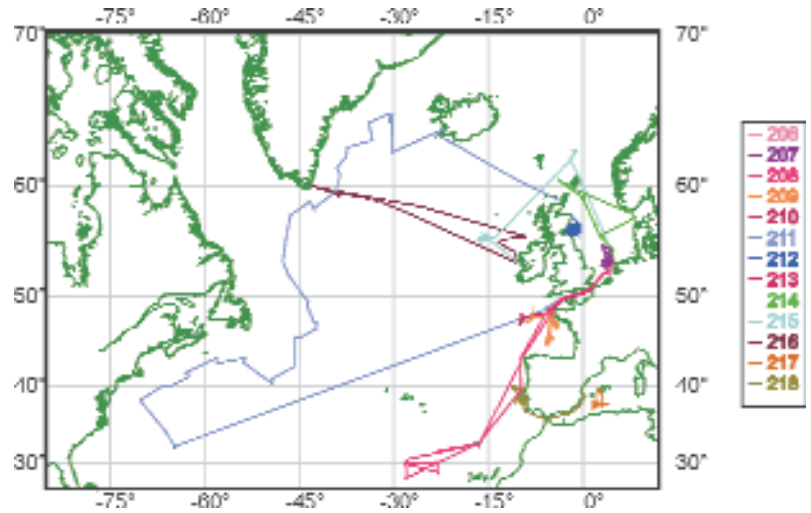
The DMG represents NIOZ and the Dutch academic oceanographic community within the National Oceanographic Data Committee (NODC). T. F. de Bruin was elected as NODC Chairman in 2003.

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.

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

An additional task of the DMG is the development and maintenance of the Netherlands Antarctic Data Inventory (NADI, <http://www.nioz.nl/projects/antarctica>) 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), for which he is currently the Deputy Chief Officer. The activities of the DMG concentrated on the (successful) recruitment of 10 new nation-members in JCDAM, which now has representation from 26 countries.

R.V. Pelagia cruises 2003



Cruise number	Project	Departure	Arrival	Specific area	Chief scientist
64PE206	BIVALFF	Feb. 10, Texel	Feb. 14, Texel	Frisian Front	Drs. G. Duineveld
64PE207	CRENS	Feb. 17, Texel	Feb. 21, Texel	North Sea/Skagerrak	Dr. J. Sinninghe-Damste
64PE208	LOCO	Feb. 27, Texel	Mar. 24, Brest	Canary Basin	Dr. H. van Haren
64PE209	Charter Thales	Mar. 26, Brest	Apr. 15, Brest	NW Atl. Oc	Mar. Res. Facilities
64PE210	Test seismics	Apr. 16, Brest	Apr. 19, Texel	English Channel	Dr. T. van Weering
64PE211	TRANSAT-2	Apr. 24, Texel	Jun. 5, Peterhead	S. North Sea	Prof. Dr. G. Herndl
64PE212	IMPRESS	Jun. 8, Peterhead	Jun. 19, Texel	Bermuda - GIN Sea	Dr. J. van der Meer
64PE213	BIVALFF	Jun. 23, Texel	Jun. 27, Texel	Firth of Forth	Drs. G. Duineveld
64PE214	MOMAP	Jul. 9, Texel	Jul. 20, Texel	Frisian Front	Dr. C. Brussaard
64PE215	MOUNTFORCE 2003	Jul. 23, Texel	Aug. 20, Galway	North Sea	Dr. H. de Haas
64PE216	CAMP/LOCO	Aug. 22, Galway	Sep. 11, Galway	Rockall/Porcupine	Dr. H. van Aken
64PE217	BADE-1	Sep. 13, Galway	Oct. 9, Valencia	Iceland Basin	Prof. Dr. G. Herndl
64PE218	CANYONS-2	Oct. 11, Valencia	Nov. 2, Lisbon	West Mediterranean	Dr. H. de Stigter
64PE219	Charter-EuroStrataForm	Nov. 5, Lisbon	Nov. 27, Texel	Off Portugal	SOC, Dr. P. Weaver
64PE220	BIVALFF	Dec. 1, Texel	Dec. 5, Texel	n.a.	Drs. G. Duineveld
64PE221	Charter-CORDAH	Dec. 8, Texel	Dec. 15, Texel	Frisian Front	MRF
				Off Aberdeen	