

Monitoring the Atlantic Inflow toward the Arctic

MAIA



The European Commission
Community Research
Energy, Environment
and Sustainable Development



MAIA CD-ROM

MAIA was a research project within the Fifth Framework Programme of the European Commission. It was part of the Energy, Environment and Sustainable Development programme and it ran from January 2000 until December 2002. The project was co-ordinated by SINTEF Fisheries and Aquaculture, Trondheim, Norway and the British Oceanographic Data Centre provided data management.

The main objective of MAIA was the development of an inexpensive, reliable system for monitoring the inflow of Atlantic water, based on coastal sea-level data.

MAIA was roughly divided into 3 phases:

1. The analysis of historical data to develop useful algorithms.
2. A validation experiment.
3. An analysis to test and refine the algorithms and to recommend measures for improvements.

The MAIA CD-ROM was assembled at BODC and contains data collected during the MAIA validation experiment (May 2000 – November 2001). It also includes all or the public deliverables from MAIA.

The MAIA Data Set

The MAIA moored instrument data set consists of 69 individual time series from current meters, ADCP, bottom pressure recorders and inverted echo sounders.

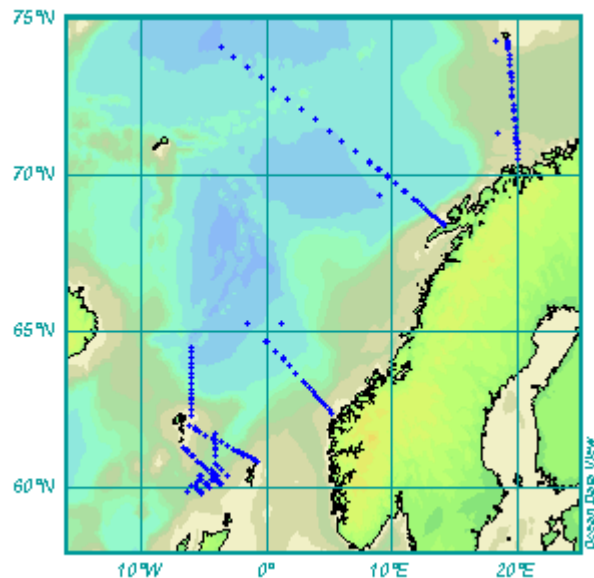
MAIA Data Set Contents

859	CTD Station Profiles
18	ADCPS
43	Current Meters
6	Bottom Pressure Recorders
2	Inverted Echo Sounders
8	RAFOS floats
1	129Iodine Experiment

The moored instrument data are presented on the CD-ROM as a series of files in either ASCII or for ADCP data, NetCDF binary format. Both formats are handled transparently by the BODC Mooring Explorer interface software which is included on the CD-ROM. This allows the data to be displayed graphically or listed in a tabular format that may be exported to other applications.

CTD profile data were collected on 28 cruises and are presented as individual ASCII files and also as ODV format. The CTD data can be viewed using Ocean Data View software which was developed at the Alfred Wegener Institute in Germany by R. Schlitzer.

www.awi-bremerhaven.de/GEO/ODV



CTD data collected during MAIA

The MAIA Reports

The following MAIA reports are included on the CD-ROM:

WP3: MAIA Analysis of Historical Data

WP4: The Norwegian Atlantic Current in the Lofoten Basin: External influences

WP5: Sea Ice sensitivity to warm ocean currents through the Barents Sea

WP6: Dedicated validation study

WP7: Validation and recommendations

List of MAIA Partners

Fisheries Research Services Marine Laboratory, Aberdeen, UK

Institute of Marine Research, Bergen, Norway

Laboratoire d'Océanographie Dynamique et de Climatologie, Université Pierre et Marie Curie, Paris, France

Proudman Oceanographic Laboratory, Merseyside, UK

SINTEF Fisheries and Aquaculture, Trondheim, Norway

Swedish Meteorological and Hydrological Institute, Norrköping/Gothenburg, Sweden

MAIA Subcontractors

Arctic and Antarctic Research Institute, St. Petersburg, Russia

British Oceanographic Data Centre, Merseyside, UK

Faroese Fisheries Laboratory, Torshavn, Faroes

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To obtain further information contact:

British Oceanographic Data Centre
Joseph Proudman Building,
6 Brownlow Street,
Liverpool L3 5DA, UK.
E-mail: enquiries@bodc.ac.uk
WWW: www.bodc.ac.uk



SINTEF Fisheries and Aquaculture
NO-7465 Trondheim, Norway
E-mail: fish@fish.sintef.no
WWW: www.fish.sintef.no