DTI STRATEGIC ENVIRONMENTAL ASSESSMENT AREA 8 (SEA8)

Oceanography and Hydrography

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In addition to the authors, many scientists and workers in the marine industry contributed references to the database and their contributions are gratefully acknowledged.

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1 Introduction

This report describes work commissioned by the Department of Trade and Industry (DTI) to prepare an inventory of oceanography and hydrography metadata for the Strategic Environmental Assessment area 8 (SEA8) in terms of data type, location, quality and availability.

The SEA8 region lies between 48° to 52°N and 2°E to 10°W and is presented in Figure 1. The area includes the DTI UK Continental Shelf Designated Area from Dover through the English Channel to the edge of the continental shelf in the Celtic Sea; the southern Irish Sea south of Milford Haven; and the Bristol Channel.

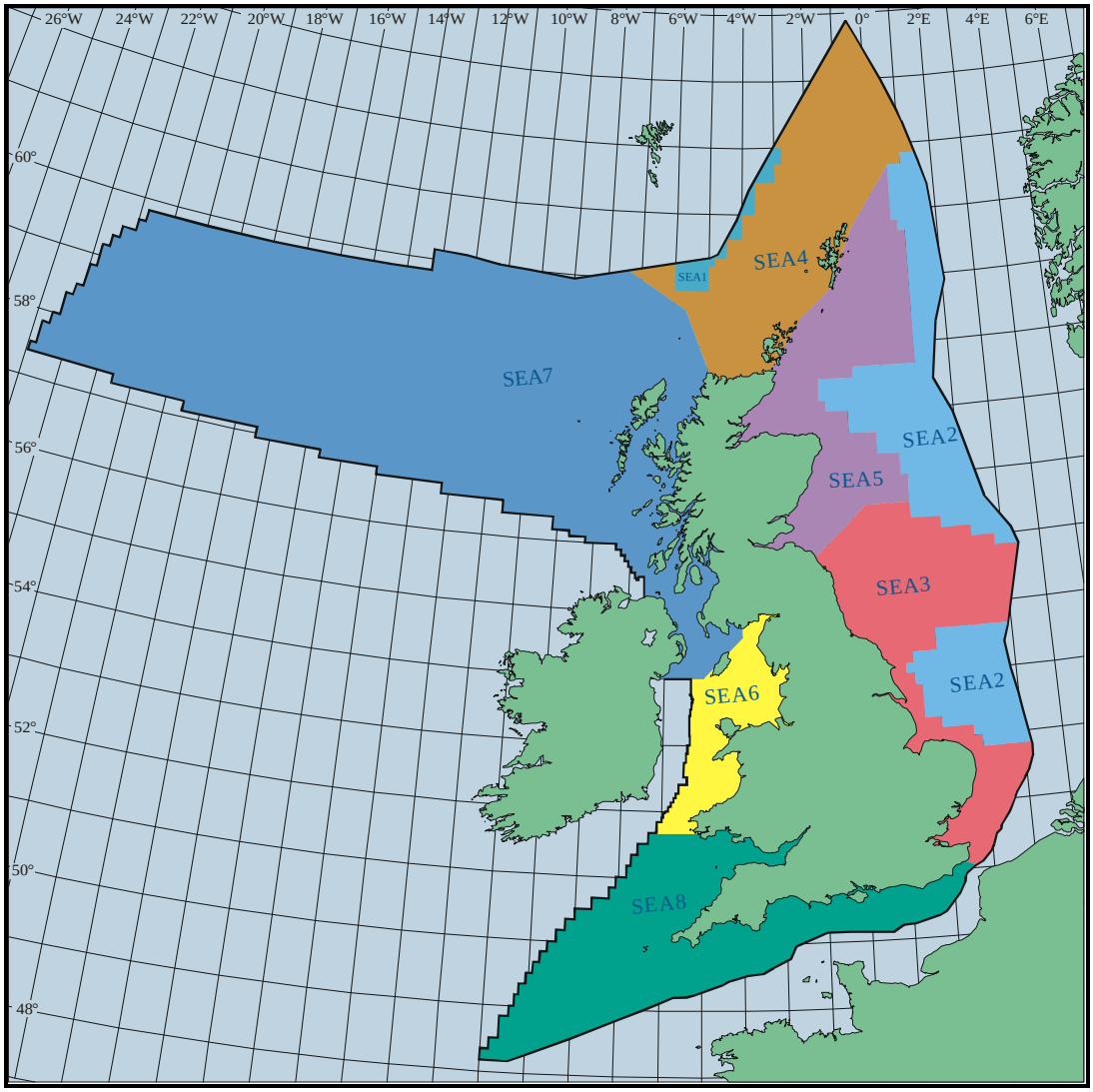

Figure 1 Strategic Environmental Assessment Areas

In accordance with the scope of work the report includes:

- A description of the study area with a synopsis of the hydrography and oceanographic regime;
- A listing of international, national and local organisations and contacts who are active in the subject area or hold information and associated initiatives and data sets.
- The meta-data inventory, comprising a comprehensive list of references and other sources of information including:
    i. whether published (white and grey), unpublished, public domain, private etc.
    ii. notes and graphics showing spatial and temporal extent;
    iii. format (book chapter, paper, dataset etc);
    iv. location;
    v. accessibility.

The main body of the inventory was compiled in June 2003. The database has been produced in an Endnote® database which contains 1307 entries and is provided on compact disk in Appendix 2.

2 Description of the Study Area

This section provides a brief synopsis of the physical oceanography of the SEA8 area comprising the Bristol Channel; the Celtic Sea; and the English Channel. The SEA8 region is characterised by seabed depths of generally less than 50m and a circulation dominated by a semi-diurnal tidal regime.

The Bristol Channel is a gulf extending approximately 160km from the Cornish peninsula to coast of South Wales. Maximum seabed depths of around 100m are reached in the Celtic Deep to the west. A semi-diurnal tidal regime is the dominant factor controlling the movement of water, with an exceptional tidal range exceeding 12m at Avonmouth during spring tides. This is due to tidal amplification towards the head of the Severn Estuary coupled with a strong resonant oscillation. Tidal currents are predominantly rectilinear, and speeds generally exceed 1.5 m s^{-1} at springs and 0.75 m s^{-1} at neaps, giving an excursion of up to 25 km during a flood or ebb tide. An amount of shallow water distortion generated by the complex bathymetry causes a stronger but shorter flood than ebb, which manifests itself up channel by the formation of a tidal bore of typically 1m. A high rate of tidal energy dissipation is maintained by the strong tidal flows, and consequently, material is kept in suspension and the water column is vertically well-mixed throughout the year, in contrast to the seasonal thermal stratification which occurs in waters to the west. Winds and waves are predominantly from the south west with significant wave height between 8m and 12m. In addition to the tidal flows, contributions to the overall pattern of circulation result from weak residual currents generated by eddies from headlands and bays, and density gradients from the highly variable outflow of the River Severn, which maintains the salinity of the Bristol Channel below 35 psu throughout the year. The water temperature ranges from 7°C in winter to >13°C in summer. Transport of water towards the Irish Sea during summer is enhanced by a strong northward jet on the eastern side of St George's Channel associated with the Celtic Sea front.

The Celtic Sea is a shallow embayment of the eastern North Atlantic delimited to the north in the St. Georges Channel between St. David's Head in Wales and Carnsore Point in Ireland, and to the south and west by the 200m isobath at the shelf edge. The M_2 tidal amplitude ranges from 40 cm s-^{1} near the shelf edge to 1 m s^{-1} within St. Georges Channel, and M_2 current speeds are in the order of 1 – 1.5 m s^{-1}. The deeper

areas of the Southwest Celtic Sea become thermally stratified during summer, in contrast to the shallower regions of the English Channel, which remain vertically mixed throughout the year, and these areas are separated by tidal mixing fronts, which vary in space, time and structure.

The English Channel is an arm of the Atlantic Ocean, which extends eastwards to the Dover Strait, with a net flow of water towards the North Sea. In the western area of the English Channel the tide has the character of a progressive wave, whereas in the east there is more of a standing oscillation. The addition of the Coriolis Force causes co-tidal lines to converge towards the Isle of Wight to a degenerate amphidromic point, giving a double high water at Southampton. The tidal wave propagates eastwards with the time of high water occurring progressively later from Lands End to Dover. Typical tidal current speeds reach approximately 1.8 m/s in the central English Channel, but can reach much higher values off headlands e.g. 4.6 m/s off Portland Bill.

3 Methodology

The information compiled for this report was primarily based on the contractors' personal experience of estuarine and coastal oceanographic and marine environmental surveys, and supplemented by information from personal contacts and comprehensive on-line literature searches.

The online literature searches were initially conducted by interrogation of the Southampton Oceanography Centre 'OCEANIS' database. Further searches were also completed using the database published by the National Information Services Corporation (NISC), which can be accessed through the Web search service BiblioLine:

- **Marine, Oceanographic & Freshwater Resources (MOFR)** is an exclusive combination of global bibliographic databases on marine, oceanographic, and related freshwater resources. It provides comprehensive coverage of over 1,000,000 records on international marine and oceanic information, as well as substantial coverage of estuarine, brackish water, and freshwater environments.

The database records include scientific journals and periodicals, monographs, proceedings of conferences and symposia, government reports, books, theses and

dissertations, and other relevant documents. Many are rare, unpublished, or not indexed by other databases.

The literature searches were conducted using the subject matter keywords of 'Ocean*' and 'Hydro*' in combination with the geographical keywords presented in Table 1.

Large Scale Areas		
Straits of Dover	English Channel	South-West Approaches
Celtic Sea	Bristol Channel	St Georges Channel
Coastal and Offshore Areas		
Goodwin Sands	Nymphe Bank	Celtic Deep
Cockburn Bank	Great Sole Bank	Haddock Bank
Melville Knoll	Jones Bank	Whittard Canyon
King Arthur Canyon	Goban Spur	Labadie Bank
Bullock Bank	Haig Fras Basin	Scilly Isles
Little Sole Bank	Great Sole Bank	Parsons Bank
Lands end	Lundy	Lizard
Estuaries and Harbours		
Rye Bay	Pagham Harbour	Chichester Harbour
Langstone Harbour	Portsmouth Harbour	The Solent
Southampton Water	Wight	Christchurch Harbour
Poole Bay	Portland	Lyme Bay
Exe Estuary	Teign Estuary	Tor Bay
Dart Estuary	Plymouth Sound	Falmouth Bay
Fal Estuary	Camel Bay	Taw-Torridge Estuary
Severn Estuary		

Table 1 List of Keywords for SEA8 literature search

A number of additional data searches were conducted to supplement the information retrieved from the online literature searches. Specific organisations and individuals were contacted by a combination of visits, telephone calls, and emails. A list of contacts is presented in Section 4.

4 Sources of Metadata

4.1 Principal Contributors

British Oceanographic Data Centre (BODC). The BODC is located at Bidston, Merseyside and houses the largest and most comprehensive oceanographic dataset in the UK (BODC Directory of Marine Environmental Data Sets). All data is available to the public without cost and can be downloaded or ordered from the website www.bodc.ac.uk/. BODC Projects include the following:

- **OMEX1 (Biology, Physical, Chem, Seds):** The Ocean Margin EXchange (OMEX) I Project was aimed at understanding, evaluating and modelling the physical, biological, chemical and sedimentological processes occurring along the northwest European shelf break (mainly in the Goban Spur area, northwestern Biscay Gulf). The project was partly supported by the European Union within the MArine Science and Technology (MAST) programme (Contract MAS2-CT93-0069) and ran from June 1993 to May 1996.

  A double CD-ROM containing the final OMEX-I Project Data Set was published in November 1997. It represented the culmination of 10 staff years of effort since BODC was first contracted by the EU to act as the OMEX Project Data Centre in early 1994.

- **EDMED**: The European Directory of Marine Environmental Data (EDMED) was initiated in 1991 by the BODC within the EC-MAST framework and has established itself as a de-facto European standard for indexing and searching datasets relating to the marine environment. It covers a wide range of disciplines and is a high level inventory, describing both Datasets and Data Holding Centres. At present, EDMED already describes more than 2300 Datasets from over 500 Data Holding Centres across Europe.

  All national directories are assembled into a single centralised system managed by the BODC and are made available via the Sea-Search website. Activities are now underway by the 16 European Sea-Search partners, from 14 coastal states, to update their national EDMED entries and to develop and install an innovative infrastructure for updating the EDMED database by means of the Internet. Also an interlink will be made with the Information Service for Earth Observation

Data (INFEO) of the Centre of Earth Observation (CEO). Furthermore, cooperation is underway with the IOC-IODE to harmonize formats in order to establish a uniform global metadata format, that will be the basis for further EDMED developments.

- **UK Cruise Inventory**:

  Interrogation of the inventory for the sea areas Bristol Channel, Celtic Sea and English Channel identified 423 datasets. Each record includes valuable information detailing the cruise date, duration, location and a description of measurements undertaken.

- **CTD Profile Index**:

  Unfortunately, this project was not available at the time of this contract.

- **The UK National Network of 'Class A' Sea Level Gauges**

  This project was established with the objectives of obtaining high quality tidal information through telemetry and aims to provide warning of possible flooding of coastal locations around the British Isles. The UK National Tide Gauge Network is funded by the Department for Environment, Food and Rural Affairs (DEFRA) and operated by the Proudman Oceanographic Laboratory's Tide Gauge Inspectorate. A map detailing the locations of the National Tide & Sea Level Facility (NTSLF) sites is presented in Appendix 1. Further details may be found on the NTSLF web site. www.pol.ac.uk/ntslf/tgi/

  The BODC archives 15 minute values of sea surface elevation collected by this Network, and these data from January 1990 onwards are available for download. Once the data has been collected there is normally a three month delay for processing. Requests for data more recent data than this (i.e. less than three months old) will incur a processing charge. Extremes, Surges and Monthly Mean Sea Levels are also available for download for the same periods. Data collected prior to 1990 are made available under licence to bone fide scientific researchers but are currently not available online.

- **Inventory of Instrumentally Recorded Wave Data**

  Map 1b. in Appendix 1 shows the relevant instrument locations where wave data have been recorded. The data were recorded by scientific and commercial organisations, using a variety of recording and processing techniques, and were subsequently submitted to the BODC. Most of the recording sites returned at least one year of data, and several returned substantially more.

- **The UK Inventory of Moored Current Meter Data**

  The UK Inventory of Moored Current Meter Data comprises about 9000 entries relating to current meter data collected by 75 organisations mainly from within the UK. The locations of the current meter moorings held in the inventory are shown on Map 1c. in Appendix 1.

4.2 General Web Searches

This section lists the details of other individuals and organisations that hold relevant data:

Centre for Environment, Fisheries and Aquaculture Science (CEFAS) www.cefas.co.uk/homepage.htm

FRS Marine Laboratory www.marlab.ac.uk

International Council for the Exploration of the Seas (ICES) www.ices.dk/

National Oceanographic Library www.library.soton.ac.uk/nol/

The Scottish Association for Marine Science (SAMS) at Dunstaffnage Marine Laboratory, Oban, holds a large amount of relevant data, some of which are unpublished Membership is required for access to the SAMS library. www.sams.ac.uk

OceanNET is the portal for the UK Global Ocean Observing System Action Group (GOOS) and the UK Marine Environmental Data Network (MED) action groups. Both are operated by the Inter-Agency Committee on Marine Science and Technology (IACMST) www.oceannet.org/. GOOS is charged with maintaining an overview of all marine observations and their application, focussing specifically on operational oceanography and forecasting. MED is a partnership between 12 government

departments, agencies and user groups, which aims to improve the accessibility and availability of UK marine environmental data.

Southampton Oceanography Centre www.soc.soton.ac.uk

US National Oceanographic Data Center www.nodc.noaa.gov/

WOCE ADCP Data Assembly Centre ilikai.soest.hawaii.edu/sadcp/

WOCE Hydrographic Programme Office whpo.ucsd.edu

WOCE Meteorological Data Assembly Centre www.coaps.fsu.edu/woce/

The Irish Marine Data Centre (ISMARÉ, Dublin) has an electronic database (Extended EDMED for Ireland) www.marine.ie

The Irish EDMED database is based on the format used by the British Oceanographic Data Centre www.bodc.ac.uk

The Marine Biological Association (MBA): www.mba.ac.uk

Plymouth Marine Laboratory (PML): www.pml.ac.uk

Fisheries Research Services, Marine Laboratory, Aberdeen www.marlab.ac.uk

UKMIC UK Marine Information Council www.ukmarine.org

CoastNET is the UK's national network that supports those who care for and manage our diverse coastline. It was established in 1995 and has evolved to provide a practical network for the exchange of information, ideas and expertise in the sustainable management of the coastal and marine environment. www.coastnet.org.uk

The Inter-Agency Committee on Marine Science and Technology (IACMST) maintains an overview of marine activities across Government. It encourages links between Government and the national marine community, the wider application of

marine science and technology, optimum use of major UK marine facilities, training and education and international links. www.marine.gov.uk/iacmst_publications.htm

The Marine and Land Based Inputs to Sea (MLIS) research programme is commissioned by Marine, Land and Liability division of DETR to support the development of UK marine environmental policy and its co-ordination with marine science. The programme particularly supports the development of the UK input to the work of the Assessment and Monitoring Committee (ASMO) set up under the 1992 Convention for the Protection of the Marine Environment of the North East Atlantic (the OSPAR Convention), www.ospar.org. The full list of research projects that have been funded by the Department as part of the MLIS Research Programme, since the programme's inception in 1988 can be found at:
www.defra.gov.uk/environment/marine/mlis/rplist.htm

The Environment Agency holds a very large amount of data and reports relating to the inshore waters. Oceanographic data are mainly collected on behalf of Water Companies in support of applications for the discharge of wastewater, or on behalf of developers, Port Authorities or any others requiring permissions for marine works. The Tidal Waters Team based at Exeter maintains a database of marine reports for the south west region (from Christchurch following the coastline to Bristol). Contact debbie.tyrrell@environment-agency.gov.uk.
Also contact david.lothian@environment-agency.gov.uk for oceanographic data collected along the south coast. www.environment-agency.gov.uk
'Neptune' is a geo-referenced meta-database of marine environmental research around the British Isles. The database was prepared by CEFAS and BGS in the late 1990s for DETR (now DEFRA) and is described in Rowlatt *et al*. (1999). www.cefas.co.uk

Titan Environmental Surveys hold a large amount of oceanographic data relating to marine studies conducted along the southern Welsh coast and the Bristol Channel. For a small administration fee, the data is available from Titan provided permission has been granted from the client who commissioned the work.
www.titansurveys.com/

4.3 Addresses of Relevant Contacts and Organisations

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e-mail: info@ices.dk
www.ices.dk/

US National Oceanographic Data Center
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Fax: 1-301-713-3302
e-mail: services@nodc.noaa.gov
www.nodc.noaa.gov/

WOCE ADCP Data Assembly Centre
National Oceanographic Data Center/
National Coastal Data Development Centers
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e-mail: wocemet@coaps.fsu.edu
www.coaps.fsu.edu/woce/

5 References

Pingree, R.D., 1980. Physical Oceanography of The Celtic Sea and English Channel. In: The Northwest European Shelf Seas: The Sea Bed And The Sea In Motion. Physical and Chemical. Chapter 13. p415 – 465

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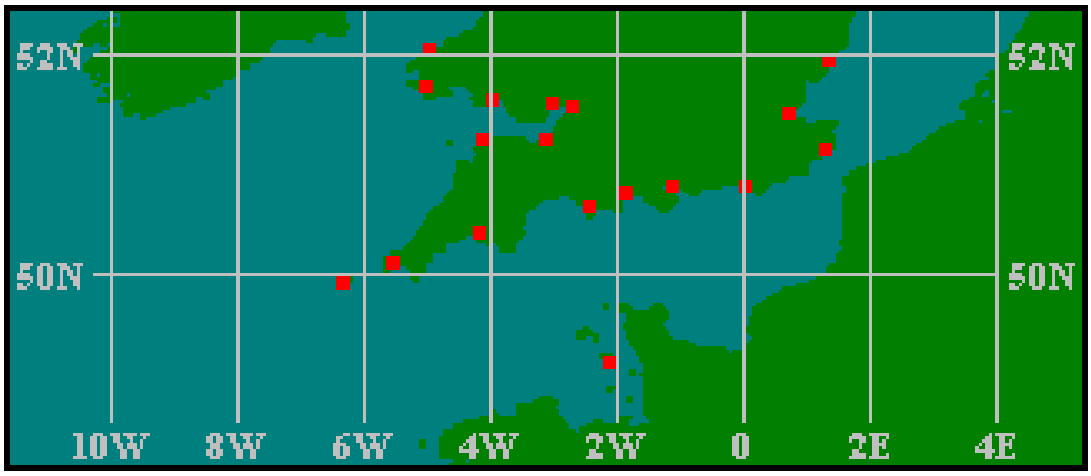
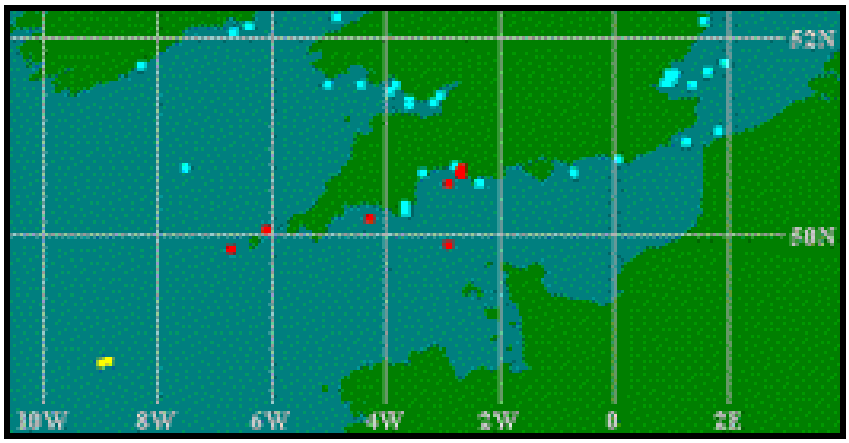
6 Appendices

Appendix 1

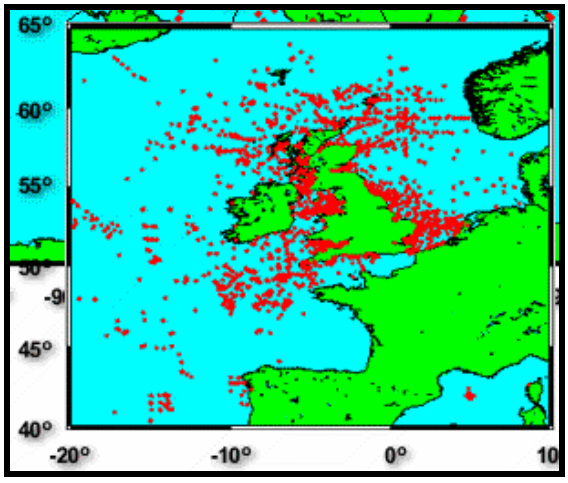
Maps



Map 1a UK NTSLF Tide Gauges (from British Oceanographic Data Centre)



Map 1b Locations for Wave Data Recorders. blue markers indicate short term wave statistics; yellow markers indicate directional wave spectra; red markers indicate one dimentional wave spectra (from British Oceanographic Data Centre)



Map 1c Locations of UK Moored Current Meters (from British Oceanographic Data Centre)

Appendix 2

Endnote© file (on compact disk)

Storm surges, river flow and combined effects. International workshop, held 8-12 April 1991, Hamburg, Federal Republic of Germany. A contribution to the UNESCO-IHP project H-2-2. Source: ; [Paris: Unesco. 290pp.] 1991.

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The transport of fresh water from river to coastal zone through a temperate estuary. Source: Journal of Sea Research; Land-Ocean Interactions in the Coastal Zone. 4. International LOICZ Open Science Meeting, Bahia Blanca, Buenos Aires (Argentina), Nov 1999; VOL. 46, NO. 2, pp. 161-175. R. J. L. Uncles, R.E.; Crossland, C.; Raaphorst, W. van; Kremer, H. | Crossland, C.,; Raaphorst, W. van,,; Elsevier Science, Earth Sciences Deptartment.

RRS John Murray: Cruises 11/75 leg 1 15-22 August 1975: 13/75 leg 2 23-29 September 1975: 14/75 leg 3 10-17 October 1975. Source: ; WORMLEY, ENG. (SURREY) INSTITUTE OF OCEANOGRAPHIC SCIENCES. CRUISE REPORT 42, 35 pp; 1976, illus., No abs., no refs.

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