R.R.V. Charles Darwin

Report on Cruise 86/17

North-West Arabian Sea

October 15th - November 7th, 1986

University of Edinburgh, Department of Geology
University of Cambridge, Department of Earth Sciences
University of Nottingham, Department of Geology
University of Liverpool, Department of Oceanography
Dates

Departed Quaboos, Muscat 15.10.86
Arrived first station 1701-01 17.10.86
Completed last station 1742-02 6.11.86
Arrived Quaboos, Muscat 7.11.86

All times in this report are GMT.
Scientific Personnel

Principal Scientific Officer - Dr. N.B. Price - University of Edinburgh
Senior Scientist - Dr. G.B. Shimmield

Ms. F. Lindsay
Ms. T. Watson
Ms. T. Williams
Mr. J. Smith
Mr. C. German - University of Cambridge
Mr. T. Lunel
Mr. I. Selby - University of Nottingham
Ms. A. Berry - University of Liverpool

Research Vessel Services
Technical Officers

R. Davies
G. Knight
K.G. Robertson
W.K. Smith
J. Taylor
P. Taylor
Cruise Objectives

Sediments

Edinburgh and Nottingham Universities.

The principal objectives of the cruise were to obtain sediment cores from a variety of environments representing (a) shallow water sediments situated above the oxygen minimum layer (b) organic rich sediments situated with the oxygen minimum layer, that is at depths between 200-1800m and (c) hemipelagic/oceanic sediments. For this both box corers and piston corers were employed.

It is envisaged that this material can be used for the following study

(a) Facies variation of the sediment with respect to the oxygen minimum zone and to distance from likely sediment sources e.g. Indus River and deserts.

(b) Diagenetic reactions of sediments showing variation in organic matter content and accumulated rate. These will be realised by study of both the solid and pore waters of the sediments.

(c) History of sedimentation of piston cores represent about 200,000 years of accumulation. Here it is envisaged that changes in the accumulation of biogenic and terrigenous constituents will provide evidence for change of monzoonal conditions during glacial and interglacial periods.

(d) Changes in the input of man made radionuclides and the mixture of these into the sediments.

The following scientists were associated with these aims - N.B. Price, G.B. Shimmield, T. Watson, T. Williams, F. Lindsay and I Selby (representing Dr. D.A. Stow (Nottingham University)).
Water

From CTD profiling and nutrient measurements to

(a) Sample the water column for an investigation of dissolved trace elements.

The examination of these is two-fold:

1. Cruise 86/17 allows for sampling of waters as an extension of Cruises 86/15 and 86/16. Here patterns of northward change in dissolved constituents will allow for an interpretation of the circulation and gain of metals to water up the western side of the Indian Ocean. Additionally, sampling within the Arabian Sea allows for a study of the changes of redox sensitive elements in the water column. In this water was collected for the following elements -

1) Rare earth elements (C. German)
2) Selenium (T. Lunel)

3) Neodymium isotope ratios $^{144}$Nd/$^{143}$Nd (C. German for H. Elderfield, Cambridge University).

4) Nickel (for S. de Berg, Liverpool University).

5) Iodine (for H. Kennedy, UCNW).

2. Additionally suspended particulate matter was collected, to determine changes in the input pattern of terrigenous constituents as well as for investigating the quantitative variations of the standing crop of biogenic constituents and organic matter in surface waters and their alteration during fallout (Edinburgh University).

Airborne dusts

Collections of airborne dusts were collected on certain cruise tracks using nets and pumping techniques (Liverpool University).
**Sampling operations**

The positions of forty-two stations and the work undertaken at each of these is given in Figs. 1 and 2 and also tabulated. Additional tables are presented, giving brief details of the core recovery and sediment characteristics at sediment sampling stations. Pore water nutrient analyses are also listed for seven stations.

Hydrographic data, dissolved oxygen and nutrients for a majority of the water stations are presented and include all stations where water was collected for dissolved metal investigations. The apportioning of this between different laboratories is listed. Tables are also included for the water volumes filtered during particulate matter sampling.

**Sediment Recovery**

Twenty-eight sediment cores collected by RVS box coring and eleven piston cores (generally 0-10m length) were collected during the cruise. Brief descriptions of these are recorded and their locations are given in Fig. 1. Attempts to collect fine grained sediments in water depths 200m/350m were largely unsuccessful due to occurrence of sands rather than muds at these depths. Further, the topography of the seabed between 200m/500m was most irregular, particularly on the extreme south-eastern coast and eastern coast of Oman. Here the seabed was either highly dissected or appeared as a series of steep sided terraces with likely local sediment slumping. Because of these features, no simple transect of cores straddling the depths oxygen minimum zone could be achieved. However the cores recovered do represent a wide variety of sediment types. Recovery of the box cores represented most extremely good sediment water interfaces. Where this did not occur, it is indicated in the core descriptions. The piston cores also show good recovery. Subsampling of the box cores into 4-5, 2.5 inch polycarbonate liners was
normally undertaken. One of these was subsampled on board at 1cm intervals to 10cm depth and thereafter at 2cm intervals for pore water extractions. A second subsample was also cut in a likewise manner and bagged for artificial radionuclide work. Except for these subcores and the piston core duplicate of 1715 all sediments were transported intact in 1m frozen lengths to the U.K. The sediments show considerable geographic variations in lithology as well as with sediment depths. However there is no consistent pattern of sediment type with depth of water.

Sediments shallower than 600m are of three lithologies. In the West fine silty sands predominate while in the shallow areas immediately to the west of Masirah Island there is a high content of diatomaceous remains. Sediments off the extreme south-east of the Arabian peninsular and in the shallower parts of the Gulf of Oman show high contents of wind-blown dust. Hemipelagic and pelagic sediments comprise fine grained carbonate rich silts and muds. The high organic loading and the general lack of a manganaise-iron sediment is reflected in the intensity and thickness of the oxidised surface layer. Red/brown coloured surficial sediments are not encountered in coastal waters. In the hemipelagic/pelagic environments it is confined to the upper few centimetres and reaches a maximum thickness of 8cm in core 1715. Sediment subsamples as well as subsamples from piston cores extruded at Edinburgh have been examined for their mineralogy and chemistry. Cores 1715, 1721, 1730, 1739 and 1713 have been examined to date at Edinburgh with most attention being paid to Core 1715.

The mineralogy of these cores is dominated by calcite, with small amounts of dolomite, also ubiquitous. The dolomite rarely occurs as euhedral rhombs but mostly occurs as rounded grains or as highly corroded subhedral rhombs. Its content in most of the sediments rarely exceed 3-4% wt. but does show a substantial increase to >10% wt in several of the turbidite layers seen in the
piston cores, particularly core 1715. It is tentatively concluded that the dolomite is mostly lithogenous rather than diagenetic. Variation in calcite, 20% to >50%, is caused by dilution from terrigenous minerals. Diatom frustules are observed in all cores. The terrigenous component of the sediments is dominated by quartz, its grains often rounded, feldspars, illite and chlorite. Kaolinite and montmorillonite are either absent or rare. Organic carbon contents are highly variable. They vary from >1% Corg in the hemipelagic sediments of cores 1715, 1730, 1738 to more than 4% in the more coastal sediments of core 1721. The variability of organic carbon at depth in cores is considerable and can be a factor of two over a distance of 10cm. Major element composition variability of the cores is illustrated with reference to cores 1715 and 1721, hemipelagic and coastal sediments respectively. Silicon and Si/Al ratios are much higher in some coastal sediments, possibly reflecting higher contributions of biogenic silicon. Further, these sediments also contain higher phosphorous reflecting the increase in organic matter in these sediments. Phosphorite as semi-consolidated lumps is also seen in these sediments; overall they are rare. The high calcium content of 1715 reflects the lower level of dilution from terrigenous fallout in the hemipelagic/pelagic environment. The variable nature of major element constituents is also seen in these figures. Higher Ca values near the base of the box cores indicate a change in climatic conditions associated with the last glacial episode. The variation in CaCO3 in the piston cores e.g. 1715 from 40 to >55% may also be a reflection of biological productivity with high CaCO3 contents at depth occurring at 3.5m. The contrast in the amount and distribution of Mn in different cores is shown for cores 1715 and 1721. For the coastal sediments Mn occurs within detrital aluminosilicate. However, in the hemipelagic cores (1715) high Mn of 0.8
wt% is observed in the surface sediment. The rapid falloff in content below 4cm reflects reduction in the lower part of the oxidised layer. Below, in the reduced sediment, Mn is elevated especially with respect to core 1721 and near the base shows some enrichment, possibly indicating the presence of diagenetic carbonate.

Pore water chemistry

Pore water from seven box cores were collected and analysed for nutrients aboard ship. Subcores of the box cores were stored for short periods (<24 hrs) at 3-5°C and subsampled at either 1cm or 2cm intervals in a glove box in a nitrogen atmosphere. The resulting sediment was centrifuged to express the pore waters, filtered through Millipore filters under nitrogen and aliquots were taken aboard ship for nutrient analysis. The remaining pore waters were stored for transport to Edinburgh for metal analysis. The pore waters were analysed for nutrients by the same methods as used for seawater. The concentrations of nitrate, silicate, phosphate and sulphide are presented as tables and also illustrated as plots against depth from the sediment water-interface. The pore waters from box cores taken at stations 1712, 1713, 1715, 1721, and 1722 are plotted in this way. Cores 1713 and 1715, typical hemipelagic cores, show elevated NO₃ concentrations in the upper 4cm of the sediment. Below there is a well defined reduction and below 10cm nitrate is absent.

The distribution of silicate in the pore waters of these cores show typical profiles, that is low concentrations in surface sediments, although considerably elevated over bottom sea water, and increase with depth in the sediment. Surface concentrations are generally between 270 and 400 um/l but show increases at depth that are very variable. Coastal sediments 1721, 1722 with a high content of biogenic silica shows the most spectacular change and
highest concentration at depth, indicating its dissolution during burial. Hemispheric cores 1713, 1715 show more modest increases probably reflecting the lower diatom content of these cores.

The distributions of $\text{PO}_4^{3-}$ with depth of the pore waters from the same sediments again show very big differences between coastal organic sediments and hemipelagic sediments. Cores 1712 and especially 1715 show significant phosphate levels in the surface sediment, above that of bottom water. Immediately below, to about 10cm, phosphate shows its lowest concentrations, but in the deeper parts of these cores there is some increase in its concentration. Such profiles suggest a possible link of phosphate sorption by ferric iron in the anoxic zone of the sediments and a release in zones of reduction. The concentrations of phosphate in the coastal zones 1721, 1722 are much higher but show very variable and different distributions with depth. These must relate to the release of $\text{PO}_4^{3-}$ from degradation of organic matter during diagenesis and the possible depletion of pore water $\text{PO}_4^{3-}$ about the locii of phosphorite precipitation for example at 4cm core 1722.

**Hydrography**

Hydrographic data for sixteen stations were collected, that is for stations 17: 01, 07, 12, 13, 15, 26, 30, 31, 32, 33, 37, 38, 39, 40, 41 and 42. These were obtained primarily for the interpretation of dissolved trace metals and particulate matter investigations. Data for $T^\circ C$, $S\text{O}/\text{oo}$, dissolved oxygen and signmap were obtained using CTD - hydrobottle casts. Throughout the cruise $S\text{O}/\text{oo}$ on the CTD response output was calibrated by salinometer measurements on subsamples of water from Goflo bottle deployment as well as from independent Niskin bottle casts. Dissolved oxygen was measured titrimetrically on equipment loaned by Dr. D. Burton, Southampton. Data for Stations 1715 and 1739 are illustrated.
Nutrients

Subsamples of water for nutrient analysis were collected from all Goflo bottle collections and selected Niskin casts. Considerable difficulty was encountered in the analysis of nutrients. It was intended to analyse nutrients using an autoanalyser (supplied by Dr. M. Whitfield, MBA), that had achieved moderate/good success during leg 15 of the Western Indian Ocean cruise by C. German. Unfortunately during pre-cruise equipment trials the equipment showed serious malfunction on both channels which seemed to relate to optical alignment/response. Even after considerable perseverance it was found that analyses by this method was overall very unreliable and the cruise had to resort to manual analyses using methods following Strickland and Parsons. Even here there were difficulties concerning optical cells and spectrophotometer bulbs. It also took a considerable manpower to achieve results which must be considered tentative. Analysis of silicate, phosphate and nitrate (for some stations) from Goflo and Niskin bottle deployment are tabulated.

The results of hydrography and nutrients show the following -

1. An intense oxygen depletion zone extends from 100m to 1050m with lowest oxygen concentrations occurring between 600m and 800m. The patterns of oxygen minima indicate more intense depletion nearer the coasts and towards the Gulf of Oman.

2. There is a complicated structure of S0/oo and T°C in the upper 400m of the water column. In the eastern stations particularly in the Gulf of Oman this is caused by a lobe of high salinity water which increases northwards, it represents an incursion of Arabian Gulf water at 125-150m. Much of the T/S and dissolved O2 in the western stations is a result of intrusion of Red Sea water at different depths and its general sinking to the south and east.

3. Antarctic Intermediate Water water can be recognised at 1Km and extends the depth of the oxygen minimum zone to this level at all stations.
Particulate matter sampling

Particulate matter for inorganic and organic matter analyses was collected by filtering aliquots of water from 301 Niskin bottle casts at the eleven stations.

For inorganic particulate investigations approximately 10 l of sea water was filtered through 37 mm 0.4μm Nuclepore membranes and then washed with pH adjusted membrane filtered distilled water. In the case of near surface water, lesser volumes of water were used because of the difficulty of filtering with fine membranes. The sea water was continually stirred during filtering under compressed air.

For organic matter recovery, approximately 15 l of sea water was filtered through Whatman GFF 37 mm diameter glass fibre discs. Depths reported in the tables are uncorrected except in cases where sea water from Goflo bottles was used. Salinity and nutrient determinations on water from Niskin bottles are also recorded.
Acknowledgements

Thanks must be given to the Master, Officers and Crew of the RV Charles Darwin for contributing to the success of this cruise. Their untiring efforts and patience throughout it was much appreciated.

Much of the science of this cruise could not have been achieved without the skill and dedication of the RVS Technical Staff. Being unused to such a professional facility on foreign cruises their presence was invaluable and considerably eased the burdens of the Principal Scientist. This is also equally true for the 'behind the scenes' work of the RVS Onshore Staff.

Nutrient results were a disappointment due to the reliance on obsolescent equipment. Priority should be to equip future cruises of this type with a reliable autoanalyzer.
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### Sampling Operations Cruise 17/86

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**Stn 1701-02**

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**Stn 1726-02**

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301 Niskin bottles – neoprene spring

slight fold in membrane
Stn 17-12-02    WATER FILTERING    20.10.86

NUCLEPORE FILTERS. 37mm 0.4 um (From CTD CAST)

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As indicated

*see repeat

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see GFF filter remarks
### Water Filtering

**Stn 1715-04**  
**NUCLEPORE FILTERS. 37mm 0.4 um**  
**24.10.86**

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**Total depth. 4020**

**Remarks:**
- awkward filtering
- excess yellow? possible contaminated
**Stn 1726-02**

**WATER FILTERING**

27.10.86

**NUCLEPORE FILTERS.** 37mm 0.4 µm

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2880 Bottom depth.

Filtering with air leak.

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Depth profile of Nitrate (dissolved phase) for CD cores.
Depth profile of Silicate (dissolved phase) for CO cores.
Depth profile of Phosphate (dissolved phase) for CD cores.
Depth profile of Calcium (solid phase) in CD1715 and CD1721.
Depth profile of Silicon (solid phase) in CD1715 and CD1721.
$\text{Si/Al}$ against depth for cores CD1715 and CD1721.
Fe/Al against depth for cores CD1715 and CD1721.
Depth profile of Manganese (solid phase) in CD1715 and CD1721.