SES Roll of Honour

Introduction

This document represents our best efforts to individually acknowledge those workers whose significant efforts have provided the data presented on this CD-ROM. At BODC, we know many of the workers in the community personally and have other sources of information such as cruise reports and LOIS (SES) project reports. From this, it should be possible to create a fairly complete inventory of those who have contributed. However, there are two caveats. First, we cannot hope to know precisely every individual contribution in such a large scientific community as SES. Secondly, we are only human and can make mistakes as easily as anyone else. So, if you find your name is missing from where it deserves to be, please do not take offence and accept our sincere apologies.

The acknowledgements are presented using the same logical structure as the data on the CD-ROM with the following data categories:

Images

Bathymetry

Underway Data Set

Moored Instrument Data Set

The SES Database

In addition, the Principal Scientists who led the SES cruises are acknowledged in a separate section.

Under the terms of the LOIS Data Policy, all data on this CD-ROM will have entered the public domain by the time this CD-ROM is published. However, it is still necessary to acknowledge the source of any data used in subsequent publications just as if the CD-ROM were a journal.

Sufficient information has been provided in this document, in the data documentation and as originator codes tagged to the data for the originators to be identified. It is suggested that data be acknowledged by reference to the originator (e.g. Jones, 1999) with the CD-ROM cited as 'LOIS Shelf Edge Study Data Set, CD-ROM electronic publication, British Oceanographic Data Centre, Birkenhead, 1999.'

Images

Satellite Images

The ERS SAR images were supplied to BODC by **Justin Small** from the Defence Evaluation Research Agency, Winfrith. The images were acquired as part of the SESAME programme.

TOBI maps

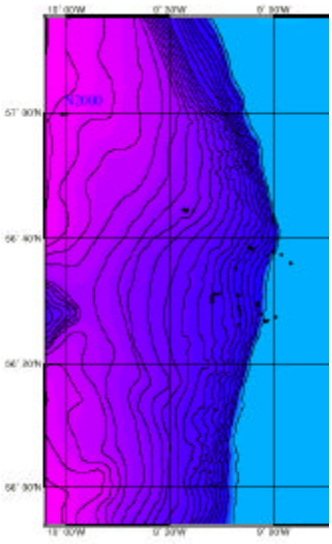
Tim Le Bas from the Challenger Division at Southampton Oceanography Centre supplied seafloor maps derived from TOBI side-scan sonar images. The instrument and technical assistance during the cruise were provided by **Nick Millard** and **Ian Rouse** from Ocean Technology Division, SOC.

Sea Floor Photographs

John Humphery of the CCMS Proudman Oceanographic Laboratory processed the bed-hop photographs taken by him plus **Jane Foster** and **Martyn Harvey** from the CCMS Dunstaffnage Marine Laboratory. **John Humphery**, **Richard Holmes** (British Geological Survey) and **John Gage** (Scottish Association for Marine Science) interpreted the images and provided the captions.

Bathymetry

Collection of the bathymetry data, and initial processing was carried out onboard ship by **Adrian Fern**, **Gareth Knight** and **Dave Booth** from Research Vessel Services. The data were further quality controlled and converted to gridded bathymetry at BODC.



Underway Data Set

The underway and logging systems were operated by Research Vessel Services personnel on board ship. Data processing and calibration was completed by BODC.

The RVS instrument technicians involved were **Bill Miller, Robin Powell, Phil Taylor, Andy Jones, John Wyner, Simon Watts,** and **Dave Booth.**

The computer systems were operated by **Gareth Knight, Howie Anderson, Rod Pearce, Paul Duncan, Alan Taylor** and **Rob Lloyd**

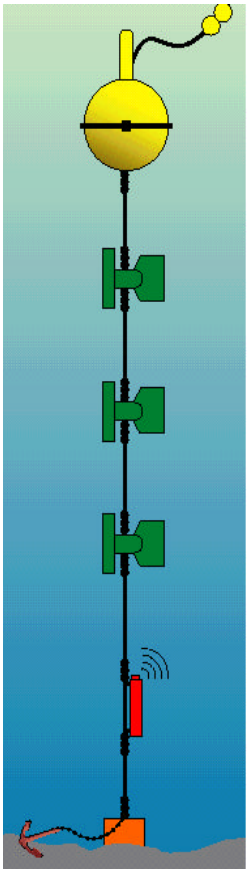
Moored Instrument Data Set

The SES moored instrument data set represents the work of many, many scientists and technical staff. Preparing the acknowledgement list was a truly daunting task and giving an impression of who did what was even more problematical.

It goes without saying that no mooring deployment or recovery would be possible without the professional skills of the captains and crews of the vessels concerned (Challenger, Charles Darwin and Calanus). These are duly acknowledged.

Moored Current Meters, ADCPs, Waveriders, Thermistor Chains, Transmissometers, Pressure and Temperature Probes, Meteorological Buoys

The majority of the moored instrument data were initially worked up and passed to BODC by **Phil Knight** from CCMS Proudman Oceanographic Laboratory. The data were further processed and quality controlled by BODC.



The personnel who prepared and deployed the instruments at sea were:

Alan Harrison, **Graham Ballard**, **Tony Banaszek**, **John Humphery**, **Roger Palin**, and **Jimmy Lawson** from the CCMS Proudman Oceanographic Laboratory.

Dave Boon, **Anne Hammerstein** and **Nigel Mathers** from the University of Wales Bangor.

Neil MacDougall from the CCMS Dunstaffnage Marine Laboratory.

Phil Taylor from Research Vessel Services.

Colin Griffiths from the CCMS Dunstaffnage Marine Laboratory supervised the deployment, processing and supply of Tiree Passage current meter data.

The moored transmissometers were calibrated by **Robin McCandliss** from the University of Wales, Bangor in collaboration with BODC.

Colour Sensors

The instrument was supplied and deployed by **Anne Hammerstein** and **Nigel Mathers** from University of Wales, Bangor. The data were calibrated and processed by personnel from the Marine Optics Group, University of Wales, Bangor, namely **Paul Smith**, **Suzie Kratzer** and **Ru Morrison**.

Moored Fluorometers

The SES moored fluorometer data were processed and calibrated by **Ken Jones** and **Ivan Ezzi** from the CCMS Dunstaffnage Marine Laboratory.

STABLE

The STABLE II lander was deployed twice during SES. **John Humphery** from the CCMS Proudman Oceanographic Laboratory supervised the instrumentation and initial processing. The data processing and interpretation were carried out by **Steve Moores**, **John Huthnance** and **Dave Gatehouse**. At BODC further processing and quality control of the “mean” data was undertaken.

The SES Database

The SES database contains the results of the work of a vast army of scientists from throughout the United Kingdom, which is amply demonstrated by what follows.

The acknowledgements have been split into the following groupings:

ADCP and Drifting Buoy Data

Benthic Data

Trap Fluxes and Settling Velocities

Tidal Constituents

Profiling Instruments Data

Water Sample Data

Production Data

ADCP and Drifting Buoy Data

ADCP Data

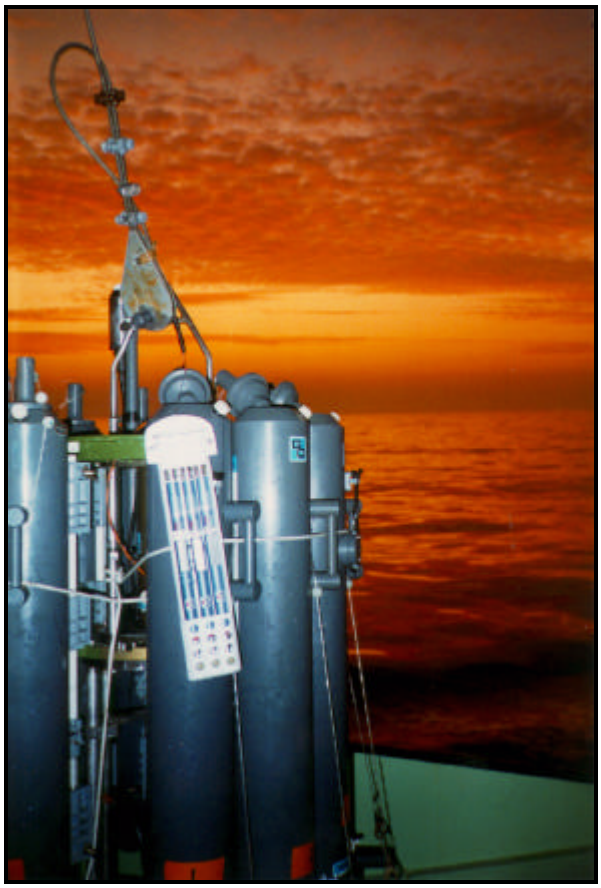
Underway ADCP data were collected during all SES Challenger cruises. The instrument was operated either by RVS personnel or, on cruises CH121B and CH125B, by **Alejandro Souza** from the University of Wales, Bangor. Post-cruise processing was undertaken by BODC.

Drifting Buoy Data

The instruments were built and deployed by **Dave Meldrum** from the CCMS Dunstaffnage Marine Laboratory. **Matthew Burrows** and **Steve Thorpe** from Southampton Oceanography Centre processed and interpreted the data. Thanks also go to **Ray Wilton** from University of Wales, Bangor and **Alan Harrison**'s team who provided technical assistance in the absence of Dave Meldrum.

Profiling Instrument Data

CTD Data Profiles



The SES database contains over 1400 CTD profiles collected during 20 cruise legs. Many people contributed behind the scenes to the collection of these data. Where these are known they are listed, but in some cases all we know is who supplied the data to BODC.

On most of the SES cruises (Charles Darwin CD91B, CD93A and CD93B and Challenger CH121A, CH121B, CH121C, CH123A, CH123B, CH125A&B, CH126A, CH126B, CH128A and CH128B) the CTD was operated by Research Vessel Services. The RVS instrument technicians involved were **Bill Miller, Robin Powell, Phil Taylor, Andy Jones, John Wyner, Simon Watts,** and **Dave Booth.** The computer systems were operated by **Gareth Knight, Howie Anderson, Rod Pearce, Paul Duncan, Alan Taylor** and **Rob Lloyd.**

Post-cruise calibrations and data quality control were undertaken by BODC. **Robin McCandliss** from the School of Ocean Sciences, University of Wales, Bangor, under the supervision of **Sarah Jones**, supplied the transmissometer SPM calibrations. The oxygen sensor was calibrated by **Hilary Wilson**, also from Bangor, under the supervision of **Paul Tett**.

On cruises Charles Darwin CD92B, Challenger CH120 and CH124 the CCMS Dunstaffnage Marine Laboratory CTD system was deployed. This was operated at sea and the data subsequently worked up by the DML marine physics group including **Colin Griffiths, Anton Edwards, Dave Meldrum** and **Joe Graham**.

The CTD data from the three SESAME cruises were collected by the Defence Evaluation Research Agency, Winfrith under the direction of **John C. Scott**. The data were processed and calibrated by DERA.

Sound velocity profiles

The sound velocity profiles obtained during CD91A were logged by **Dave Booth** from Research Vessel Services and supplied to BODC by **Brian McCartney** from the CCMS Proudman Oceanographic Laboratory.

XBT Data

The XBT data included in the CD-ROM were collected during two SES cruises, CD91A and CH126B. **Dave Booth** was the RVS operator on CD91A, while **Alejandro Souza** from University of Wales, Bangor undertook the Challenger XBT survey. The data were further processed by BODC.

Marine Snow Profiler Data

The Marine Snow Profiler was operated by and the images analysed by **Andy Geary** working with **Richard Lampitt** from the George Deacon Division, Southampton Oceanography Centre.

SeaSoar Data

The SeaSoar data presented on the CD-ROM are from two cruises, both of which were calibrated and quality controlled by BODC. **Simon Watts** and **Andy Taylor** from RVS were involved with the instrumentation and logging, respectively, during cruise CH123A. During cruise CH125B, SeaSoar was flown by **Nigel Mathers** from University of Wales, Bangor. **John Wynar** and **Andy Jones** were the RVS support.

Light Profile Data

The Profiling Radiometer data from Charles Darwin and Challenger were collected by personnel from the Marine Optics Group, University of Wales, Bangor, namely **Ru Morrison**, **Suzie Kratzer** and **Paul Smith**. The group also looked after instrument calibration and data processing.

FLY Probe Data

The FLY turbulence probe was used on cruise Challenger CH121B and CH128A. The data were collected; processed and the instrument calibrated by **Toby Sherwin**, **Mark Inall, Dave Boon** and **Tom Rippeth** from the School of Ocean Sciences, University of Wales, Bangor, with the assistance of **Chris MacKay** from Sy-Tech Research, Canada.

Benthic Data

Core Profile Data

The SES core profile data set is complex and the result of the work of many scientists. Mention should be made of the personnel who provided technical assistance during the cruises, including **Jim Watson** and **Kenny Black** from the CCMS Dunstaffnage Marine Laboratory.

The individual sample measurements were the responsibility of the following:

Sediment Organic Carbon, Organic Matter and Nitrogen

Martyn Harvey from the CCMS Dunstaffnage Marine Laboratory, in collaboration with **John Gage** from the Scottish Association for Marine Science, calculated the total organic matter content of sediment samples.

George Wolff, **Anne-Marie Harbin, Sansha Harris** and **Roy Chester** from the Department of Earth Sciences, University of Liverpool measured nitrogen, carbon and carbonate content of sediment samples from cruise Charles Darwin CD92A.

Carbon Isotopes

Carbon isotopes were measured by:

Alison Stewart, **Gordon Cook** and **Angus MacKenzie** from the Scottish Universities Research Reactor Centre.

George Wolff, **Anne-Marie Harbin, Sansha Harris** and **Roy Chester** from the Department of Earth Sciences, University of Liverpool.

Lynda Mitchell from the Scottish Association for Marine Science completed analysis of ^{13}C on cores from the majority of the cruises as part of a special topic organised by **John Gage**.

Radioisotopes

Two groups measured radioisotopes from SES sediment cores:

> **Jane Foster** under the supervision of **Graham Shimmield** from CCMS Dunstaffnage Marine Laboratory measured lead isotopes.
>
> **Alison Stewart**, **Gordon Cook** and **Angus MacKenzie** from the Scottish Universities Research Reactor Centre determined lead, americium and caesium isotopes.

Solid Phase Chemistry

Profiles of sediment chemistry along cores were measured by three groups:

> **Jane Foster**, supervised by **Graham Shimmield** from CCMS Dunstaffnage Marine Laboratory employed x-ray fluorescence to measure major and trace elements.
>
> **Martyn Harvey** from the CCMS Dunstaffnage Marine Laboratory in association with **John Gage** from the Scottish Association for Marine Science, measured inorganic sulphur**.**
>
> **George Wolff**, **Anne-Marie Harbin, Sansha Harris** and **Roy Chester** from the Department of Earth Sciences, University of Liverpool determined trace metal concentration and associations.

Sediment Amino Acid and Lipid Content

Data for sediment Amino acid, Alkanoic acid, n-Alkanol, n-Alkane and a,ω-Alkanadioic content were supplied by **George Wolff**, **Anne-Marie Harbin, Sansha Harris** and **Roy Chester** from the Department of Earth Sciences, University of Liverpool.

Sediment Grain Size

Sediment grain size parameters were determined by two different groups:

George Wolff, **Anne-Marie Harbin, Sansha Harris** and **Roy Chester** from the University of Liverpool.

Lynda Mitchell from the Scottish Association for Marine Science as part of a special topic organised by **John Gage**.

Dry Bulk Density, Porosity and Water Content

Dry bulk density was measured by **Jane Foster** from CCMS Dunstaffnage Marine Laboratory, supervised by **Graham Shimmield**.

Sediment Porosity was calculated by **Martyn Harvey** from the CCMS Dunstaffnage Marine Laboratory in collaboration with **John Gage** from the Scottish Association for Marine Science.

George Wolff, **Anne-Marie Harbin, Sansha Harris** and **Roy Chester** from the University of Liverpool measured the sediment water content.

Radiocarbon Dating

Alison Stewart, **Gordon Cook** and **Angus MacKenzie** from the Scottish Universities Research and Reactor Centre determined radiocarbon dates.

Sediment Pollen Content

These data were measured by **George Wolff**, **Anne-Marie Harbin, Sansha Harris** and **Roy Chester** from the University of Liverpool.

Whole Core Data

Alison Stewart, **Gordon Cook** and **Angus MacKenzie**, of the Scottish Universities Research Reactor Centre, conducted Americium and Caesium isotope analysis of cores obtained from cruise Challenger CH124.

Sediment oxygen demand was determined by **Martyn Harvey,**

from CCMS Dunstaffnage Marine Laboratory as part of a special topic organised by **John Gage** from the Scottish Association for Marine Science.

Benthic macrofauna data were supplied to the SES database by **Lynda Mitchell** from the Scottish Association for Marine Science, in association with **John Gage**.

Water Sample Data

The water sample data from SES represents the work of many scientists who were responsible for the measurements as outlined below:

Radioisotopes

Caesium and Thorium isotopes were studied by **Alison Stewart**, **Gordon Cook** and **Angus MacKenzie** from the Scottish Universities Research Reactor Centre.

Jane Foster, overseen by **Graham Shimmield**, from the CCMS Dunstaffnage Marine Laboratory provided dissolved and particulate Lead-210 and Polonium-210 measurements.

Dissolved Organic Carbon

Dissolved organic carbon was determined by **Axel Miller** and **Xose Alvarez-Salgado** from the CCMS Plymouth Marine Laboratory. Their thanks go to the various people who collected samples on their behalf during some of the cruises.

Dissolved Total Nitrogen and Phosphorus

Axel Miller and **Xose Alvarez-Salgado** working at the CCMS Plymouth Marine Laboratory determined dissolved total nitrogen using HTCO. Various people collected samples on their behalf: these are duly acknowledged.

Fa Chen from the CCMS Proudman Oceanographic Laboratory went up to Dunstaffnage to determine total nitrogen and phosphorus by wet chemistry, in collaboration with **Ken Jones**.

Iodine

Iodide and iodate analyses were undertaken by **Vic Truesdale** from Oxford Brookes University. The sample collection was supervised by **Ken Jones** from the CCMS Dunstaffnage Marine Laboratory.

Particulate Carbon and Nitrogen

The analysis was undertaken at the CCMS Dunstaffnage Marine Laboratory by **Fernando Perez-Castillo** from the University of Wales, Bangor in collaboration with **Ivan Ezzi** and **Ken Jones** from Dunstaffnage. Fernando's work was supervised by **Paul Tett**.

Nutrients

Nutrients were systematically measured on most SES cruises by personnel from the CCMS Dunstaffnage Marine Laboratory. Those involved were **Ken Jones**, **John Leftley**, **Brian Grantham** and **Ivan Ezzi.** In addition, **Fa Chen** from the CCMS Proudman Oceanographic Laboratory provided additional nutrient data as part of her work on dissolved nitrogen and phosphorus in collaboration with **Ken Jones**.

Dissolved Trace Metals

Dissolved trace metals were determined by **Anne-Christine le Gall**, in association with **Peter Statham**, from Southampton Oceanography Centre, UK,

Particulate Trace Metals

Jane Foster supervised by **Graham Shimmield**, from the CCMS Dunstaffnage Marine Laboratory determined particulate trace metals.

Pigments

Three groups undertook measurements of pigments:

> **Ken Jones**, **John Leftley**, **Brian Grantham** and **Ivan Ezzi** from the CCMS Dunstaffnage Marine Laboratory.
>
> **Linda Gilpin** in collaboration with **Graham Savidge**, from Queen's University Belfast.
>
> Fluorometer pigment estimates from CPR tows were supplied to BODC by **Tony Walne** from the Sir Alister Hardy Foundation for Ocean Science.

Suspended Particulate Material

The SPM data were provided by **Robin McCandliss** and **Stuart Lowe** from the University of Wales, Bangor, under the supervision of **Sarah Jones**.

Dissolved Oxygen

Dissolved oxygen determinations by Winkler titration were made **Hilary Wilson** under the supervision of **Paul Tett** from the School of Ocean Sciences, University of Wales, Bangor.

Phytoplankton Counts

The phytoplankton counts were done by **Linda Gilpin** from Queen's University, Belfast in collaboration with **Graham Savidge**.

Trap Fluxes and Settling Velocities

Moored Sediment Traps

The SES sediment traps were prepared and the samples collected by **Fernando Perez-Castillo** from the University of Wales, Bangor, under the supervision of **Paul Tett**. The expertise of **Richard Lampitt** from Southampton Oceanography Centre contributed much to the successful trap deployments. Particulate organic carbon and nitrogen analyses were undertaken in collaboration with **Ivan Ezzi** and **Ken Jones** from the CCMS Dunstaffnage Marine Laboratory.

Settling Velocity Tube data

The settling velocity tubes were deployed, analysed and interpreted by **Robin McCandliss** and **Stuart Lowe** from the University of Wales, Bangor, under the supervision of **Sarah Jones**.

Production Data

Linda Gilpin from Queen's University, Belfast conducted on-deck ^{14}C incubation experiments and P:I experiments to determine primary production rates, in association with **Graham Savidge** from Queen's and **Ken Jones** from the CCMS Dunstaffnage Marine Laboratory.

Tidal Constituents

The tidal analysis performed on various SES ADCP data series was carried out by **Phil Knight** from the CCMS Proudman Oceanographic Laboratory, in collaboration with **John Howarth**.

Principal Scientists

Invaluable leadership at sea was provided by the cruise principal scientists. These were as follows:

Charles Darwin CD91A

Brian McCartney from the CCMS Proudman Oceanographic Laboratory.

Charles Darwin CD91B and Challenger CH123A

John Huthnance from the CCMS Proudman Oceanographic Laboratory.

Charles Darwin CD92A and Challenger CH128B

Martyn Harvey from the CCMS Dunstaffnage Marine Laboratory.

Charles Darwin CD93A and CD93B, Challenger CH126A and CH126B

Paul Tett from University of Wales, Bangor. **Alan Harrison** from the CCMS Proudman Oceanographic Laboratory was acting PSO for part of Challenger cruise CH126A.

Charles Darwin CD92B and Challenger CH120 and CH124

Anton Edwards from the CCMS Dunstaffnage Marine Laboratory.

Challenger CH121A, CH121C and CH128A

John Simpson from the University of Wales, Bangor.

Challenger CH121B

Toby Sherwin from the University of Wales, Bangor.

Challenger CH123B

Ken Jones from the CCMS Dunstaffnage Marine Laboratory.

Challenger CH125A

John Howarth from the CCMS Proudman Oceanographic Laboratory

Challenger CH125B

Ed Hill from the University of Wales, Bangor.