

Work Package V
Project Management and Coordination
Management Report

Roland Wollast and Lei Chou
Université Libre de Bruxelles
Belgium

TASK V.1: Data management and dissemination

Task 1.1 Establish and maintain a close working relationship with OMEX II-II scientists

Data Tracking

The OMEX II cruise inventory has been maintained and as of 31 May 1998 contained information on eleven cruises within the study area:

- # + Charles Darwin CD105A (29/05/1997 - 09/06/1997): 12 data sets
- # + Charles Darwin CD105B (10/06/1997 - 22/06/1997): 18 data sets
- # + Belgica BG9714B (18/06/1997 - 20/06/1997): 12 data sets
- # + Belgica BG9714C (21/06/1997 - 30/06/1997): 33 data sets
- # + Belgica BG9714D (02/07/1997 - 07/07/1997): 21 data sets
- # Pelagia PE64/108 (23/06/1997 - 14/07/1997): 14 data sets
- # Pelagia PE64/109 (15/07/1997 - 05/08/1997): 21 data sets
- + Almeida Carvalho CLIMA97 (06/12/1997 - 15/12/1997): 7 data sets
- # + Charles Darwin CD110A (23/12/1997 - 05/01/1998): 16 data sets
- # + Charles Darwin CD110B (06/01/1998 - 19/01/1998): 25 data sets
- + Poseidon PS237-1 (26/02/1998 - 16/03/1998): 10 data sets

= Cruise report has been delivered to BODC

+ = Cruise Summary Report has been delivered to BODC

Charles Darwin CD110 was met at Southampton by BODC where data sheets and continuously logged data were collected. These sources, combined with further communication with the PSO of each cruise prior and post cruise, have provided invaluable information on the data collected, as well as station lists to initialise the 'data inventory'. During the 6 months covered by this report information on 101 data sets has been added to the inventory.

Task 1.2 Assemble data into the OMEX II-II project database

Data Management

As of 31 May 1998, BODC have received 36 submissions of data covering 64 of the 189 data sets collected on the cruises listed above (15 submissions, 34 data sets received in the period 1 December 1997 to 31 May 1998).

Underway and CTD data have been processed and sample data loaded onto the project database. Progress to date is outlined below (data processed within the past 6 months are *italicised*):

CD105 A (3 out of 12 data sets received)

- underway file created (10 channels) with temperature and salinity calibrated. *PAR data calibrated.*
- 8 XBTs screened and banked
- SWATH bathymetry
- *ship-borne ADCP processed*

CD105B (6 out of 18 data sets received)

- underway file created (13 channels) with temperature and salinity calibrated. *PAR data calibrated.*
- 82 CTD casts worked up with pressure, salinity, temperature, *fluorometer* and *oxygen* data calibrated, and irradiance, nephelometer and transmissometer data processed
- other data sets banked: water bottle salinity, temperature, *phosphate*, *HPLC pigments* and size fractionated chlorophyll

BG9714B (10 out of 12 data sets received)

- underway file created (13 channels) with temperature, salinity and fluorometer data calibrated. *Oxygen, pCO₂ and pH merged and screened.*
- 2 CTD casts worked up with temperature, salinity and oxygen data calibrated
- other data sets banked: non-toxic supply pigments and salinities; water bottle salinities and dissolved oxygen; *CTD and non-toxic nutrients*; *CTD HPLC and fluorometric pigments*; *total alkalinity, pCO₂, pH and TCO₂*

BG9714C (15 out of 33 data sets received)

- underway file created (13 channels) with temperature, salinity and fluorometer data calibrated. *Oxygen, pCO₂ and pH merged and screened*
- 57 CTD casts worked up with temperature, salinity and oxygen data calibrated
- 12 light profile casts processed
- *13 phytoplankton light absorption spectra casts processed*
- *14 profiling radiometer spectra casts processed*
- other data sets banked: non-toxic supply pigments and salinities; water bottle salinities, dissolved oxygen, pigments and epifluorescence; light profiles; *CTD and non-toxic nutrients*; *CTD HPLC and fluorometric pigments*; *cyanobacteria, autotrophic flagellates*; *total alkalinity, pCO₂, pH and TCO₂*

BG9714D (11 out of 21 data sets received)

- underway file created (13 channels) with temperature, salinity and fluorometer calibrated. *Oxygen, pCO₂ and pH merged and screened*
- 15 CTD casts worked up with temperature, salinity and oxygen data calibrated
- *12 light profile casts processed*
- other data sets banked: non-toxic supply pigments and salinities; water bottle salinities and dissolved oxygen; light profiles; *nutrients*; *total alkalinity, pCO₂, pH and TCO₂*;

CLIMA98 (0 out of 7 data sets received)

CH110A (5 out of 16 data sets received)

- *underway file created (9 channels) with temperature and salinity calibrated*
- *39 CTD casts worked up with temperature, salinity and oxygen data calibrated, and irradiance, nephelometer and transmissometer data processed*
- *Ship-borne ADCP processed*
- *other data sets banked: non toxic supply and CTD bottle salinities*

CH110B (8 out of 25 data sets received)

- *underway file created (9 channels) with temperature and salinity calibrated*
- *12 CTD casts worked up with temperature, salinity and oxygen data calibrated, and irradiance, nephelometer and transmissometer data processed*
- *Ship-borne ADCP processed*
- *other data sets banked: underway and CTD bottle salinities and nutrients*

PE64/108 (2 out of 14 data sets received)

- 13 CTD casts comprising temperature, salinity, oxygen, attenuation and fluorometer screened and loaded
- other data sets banked: CTD bottle oxygen

PE64/109 (4 out of 21 data sets received)

- 18 CTD casts comprising temperature, salinity, attenuation and fluorometer screened and loaded
- other data sets banked: CTD bottle oxygen, salinities, nutrients and TCO₂

PS237/1 (1 out of 10 data sets received)

- CTD data logged

Task 1.3 Provide a timely and effective data access service for OMEX II-II scientists

Data Services to OMEX Scientists

World Wide Web Information Service on OMEX Data

A World Wide Web system was designed, implemented and maintained for use in OMEX II-II. As of May 1998 it contained 107 pages specific to OMEX II-II. These cover 'OMEX News' which is constantly updated in collaboration with the OMEX Project Office and a range of other information related to the management of data within the project. The news pages have carried the conference details of the work package meetings. The data management pages include an OMEX II-II list of cruises and a full copy of the 'data tracking' system with information on the data sets collected on each cruise and the status of their submission to BODC, updated inline with the data inventory spreadsheet. Also included is a WWW copy of the 'data event' table which is automatically updated daily from the ORACLE database. Cruise tracks are made available from the pages. Links to other OMEX related sites are also provided.

During the period 1 December 1997 to 31 May 1998 there have been 4521 [3004] accesses to the OMEX WWW pages of which 790 [549] have involved accesses to more than one page. 8 (2) access sessions have lasted longer than 2 hours. (All figures are minus accesses via search engines – figures in brackets are for the previous 6 month period from 1 June 1997 to 30 November 1997).

Although accesses have been made from 62 countries, the web server client statistics suggest that a large proportion of accesses were actually made by OMEX scientists.

On-Line Access to the OMEX Database

Three OMEX II participants have accessed the OMEX online database directly in 18 user sessions during the period 1 December 1997 to 31 May 1998.

Ad-hoc Data Requests Serviced by BODC for OMEX

Thirty-two ad-hoc requests for data and/or information have been completed for participants in the OMEX II project during the period 1 December 1997 to 31 May 1998. Requests have been serviced for 12 organisations in 7 countries.

Task 1.4 Act as a data interface between OMEX II-II and other related MAST projects

Distribution of the OMEX I Project Data Set and Final Report on CD-ROM

The final OMEX I Project Data Set was published by BODC as a double CD-ROM in November 1997 and contains 95% of the 600 data sets collected during the programme, 540 pages of supporting documentation and a further 260 pages of documentation prepared in the form of 'User Guides'.

During the past 6 months, 142 copies of the CD-ROM have been distributed to 97 institutes in 23 countries including OMEX II participants.

The OMEX I Final Report on CD-ROM is an electronic compilation of the 108 final scientific reports of the project's principal investigators. 208 copies of this product have been distributed to OMEX I participants.

Task 1.5 'Electronic publication' of the final project data set on CD-ROM

Presentations and Publications

A talk entitled 'With all these data, who are the good and bad guys?' was presented at the Work Package II Meeting at IST, Lisbon, 27-28 April 1998.

BODC participated at 'The Third European Marine Science and Technology Conference, Lisbon, 23-27 May 1998' where the OMEX I Data Set CD-ROM product was demonstrated.

The following paper has been published:

R.K. Lowry, Z. Loncar, R.M. Downer. (1998). Data Management for the OMEX I Project – A Case Study. Marine Science and Technology Programme. Experiences in Project Data Management. Ed. M. Bohle-Carbonell. European Communities Publication EUR 18037, pp. 99-168.

Task V.2: Project planning and co-ordination

Task 2.1 Organisation of Scientific Steering Committee meetings

The OMEX II-II Scientific Steering Committee (SSC) met in Brussels from 22-23 June 1998. All members were present except Paul Wassmann and Ramiro Neves who were not in Europe at the time. Various items on the agenda were discussed in detail. The minutes (see Annex II) were prepared and circulated to members following the meeting, before being revised and posted to members.

Task 2.2 Preparation of annual workshops and workshop proceedings

Work Package III met in Faro (co-ordinated by Tjeerd van Weering and Alveirinho Dias), at the University of Algarve from 5 to 8 April. Work Packages I and II met in Lisbon (co-ordinated by Paul Wassmann, Peter Burkill and Ramiro Neves) at the Instituto Superior Tecnico from 26 to 28 of April. During these meetings, the preliminary results obtained were presented by the WP II and WP III partners. For WP I, the planning of the forthcoming CD114 cruise (chief scientists: Stuart Gibb and Ian Joint) was discussed in great detail and finalised, and is documented in the report compiled by its leader Paul Wassmann (Annex I).

The first OMEX II-II annual report, assembled and collated by ULB-a, has been distributed to the SSC members on 22 June 1998 during its meeting in Brussels, and was submitted to the MAST office in due time.

During the SSC meeting, Fauzi Mantoura volunteered to host the first OMEX II-II annual meeting in Plymouth. The proposed dates are 28-30 March 1999. However, they are to be confirmed and checked with the two members who were not present at the meeting.

Task 2.3 Collection and transmission of the six-monthly management reports

Work Package leaders have reported on the activities of their respective groups in a timely manner and the 12-month Management Report for OMEX II-II has been prepared and transmitted to the MAST office (ULB-a).

Task V.3 Administrative management

Task 3.1 Contract formulation and assertion with all the participants

The DGXII contract unit has prepared an amendment for the five contractors concerning the NERC Remote Sensing Data Analysis Service (RSDAS) currently based at the Plymouth Marine Laboratory

(PML). This supplementary agreement has been sent to the contractors for signature. The originally planned associated contract of the RSDAS unit (ex NSS) led by Steve Groom has become part of the PML contract. From now on, PML will be the responsible party for the execution of the RSDAS tasks originally outlined in the Technical Annex. A list of personnel employed by the OMEX II-II project during its first project year is given in Table V.1. below.

Task 3.2 Financial management including the collection of financial reports and justifying documents from all partners

All partners have been requested to submit their cost statement for the first year. All documents received will first be checked by ULB for errors and discrepancies. Complete sets of cost statements will be transmitted to the Commission according to the grouping indicated in the Technical Annex (page 97).

Task 3.3 Purchase of heavy equipment to be deployed at sea

Université Libre de Bruxelles (ULB-a) continued to purchase trap mooring related materials for the Institut für Meereskunde (IfM). The UCG Argos PTT charges incurred during the data acquisition period are continued to be paid by ULB-a. During CD110 cruise, UCG encountered problems in recovering the moorings deployed since the CD105 cruise and is currently seeking shiptime for the recovery/redeployment of their moorings. On the other hand, IfM successfully recovered and redeployed the trap moorings and *in situ* pumps during the recent Poseidon PS237/1 cruise.

Table V.1 List of scientific personnel employed by the OMEX II-II contract during the first year.

Institute	People
ULB	Lei Chou, Andrea Bullock, Bruno Delille, Stéphane de Beer, Bernard Avril
POL	John Huthnance, Mohammed Amin, Alan Davies, John Humphery, Stephen Moore, Jiuxing Xing
UITO	Inger Johanne Andreassen, Eirik Nordby, Kalle Olli
PML	Peter Burkill, Elaine Edwards
	Ian Joint, Andy Rees, Alan Pomroy
	Stuart Gibb, Axel Miller, Denise Cummings, Georgina Spyres, Fauzi Mantoura
NIOZ	Tjeerd van Weering, Henko de Stigter
	Wim Helder, Lutz Lohse, H.G. Eric Epping
	Marc Lavaleye
	H. Van Aken, R. de Koster
RISO	Soren Larsen, Jorgen Kjeld
BODC	Roy Lowry, Ray Cramer, Andrew Tabor, Richard Downer, Jake Loncar, Pauline Weatherall, David Neave
NSS	Peter Miller, Steve Groom, Tim Smyth
SAHFOS	Sonia Batten, David Joyce, Lance Gregory, Roger Barnard, Rebecca Allen, Martin Edwards, Julie Finlayson, David Johns, Tony John, Tanya Jonas, Harry Hunt, Paul Tranter, Tony Walne, Claire Wotton, Andrew Warner
SOC	Richard Lampitt, Andrew Hirst, Howard Roe, Ben Boorman
UCAMB	Ian Hall
UWB	Ricardo Torres
	Toby Sherwin
UCG	Martin White
ULg	Kinh Trang Dotansi, Emile Libert
VUB	Natacha Brion, Semeneh Mengesha, Nathalie Kindermans, Sandra De Galan
CFR	None
UBord	None
GEOMAR	Gregor Rehder, Katja Heeschens, Michael Poser, Sebastian Wolf
	Laurenz Thomsen
IfM	Rolf Peinert
NIOO	Karline Soetaert
	Els Flach
IIM	Belen Arbones, Maria Luisa Villarino, Pilar Pazos
UVI	Javier Freire Sanchez
IST	Ricardo Cristovao Miranda, Joao Pedro Delfino, Paulo Chambel Leitao, Pedro Vicente, Helder Martins
UAL	Carla Garcia, Paulo Pedro, Carlos Rocha
IPIMAR	Carlos Vale, Manuela Falcao, Maria Madureira
UOveido	Alejandro Isla, Angel Lopez-Urrutia, Rafael Gonzalez-Quiros
IEO	Antonio Bode, Manuel Varela, Nicolás Gonzáles
IH	None
SINTEF	Dag Slagstad