

OMEX II Moored Instrument Data Documentation

The moored instrument data documentation has been laid out as follows. At the head of the documentation is an index table, containing row per data series. In general, data series correspond to instrument deployments. However, there is at least one example in the OMEX II where two series have resulted from a single deployment as different parameters were sampled at significantly different sampling intervals.

The hot links from the index table lead to what are known as series information pages, which contain the main series metadata (time, position, etc.) plus any series-specific documentation, cautions or warnings that are stored with the data.

At the bottom of the series information page are further hot links to individual data documents that pertain to the series. For example, all series refer to a document that provides a brief description of the OMEX project. At the end of the document are the definitions of the **parameter codes** and **quality control flags** used in the OMEX II moored instrument data set.

Data documentation is based on the information that is supplied to BODC - this varies from comprehensive data reports to short hand-written notes. In some cases, insufficient information is available for the data to be fully documented. There is little that BODC can do to improve the inherent quality of the data that it banks. This is dependent on the procedures and methods used by the data originator, and the care that he or she takes in making and processing their measurements. However, prior to loading data onto its database, BODC carries out a set of data screening procedures aimed at detecting significant errors or problems with the data. Any suspect properties detected are documented in the form of warning or caution documents.

Whilst every care has been taken to ensure that the data and information supplied are reliable, errors may go undetected on occasions. Should you detect any problems please do not hesitate to let us know.

Series Index

This report contains the qualifying documentation and header information associated with the following data series extracted from the BODC database:

Series	Data	Latitude	Longitude	Start Date	Sea Floor	Sensor
Ref	Type	deg min	deg min	yyyy/mm/dd	Depth m	Depth
506049	LA	42 40.9 N	009 28.6 W	1997/06/10	156.0	155.0
517582	MF	42 40.7 N	009 30.5 W	1997/12/27	203.0	201.1
517594	MF	42 40.6 N	009 30.5 W	1998/08/01	206.5	204.6
517601	MF	42 40.7 N	009 30.5 W	1997/12/28	203.0	201.1
530584	LA	39 54.9 N	009 43.6 W	1997/10/30	898.0	635.0
530596	LA	39 54.9 N	009 43.6 W	1997/10/30	898.0	75.0
530603	LA	39 54.9 N	009 43.6 W	1997/10/30	898.0	335.0
530615	LA	39 55.1 N	009 43.7 W	1998/06/18	905.0	620.0
530627	LA	39 55.1 N	009 43.7 W	1998/06/18	905.0	120.0
530639	LA	39 55.1 N	009 43.7 W	1998/06/18	905.0	70.0
530640	LA	39 55.1 N	009 43.7 W	1998/06/18	905.0	320.0
530652	LA	41 18.9 N	008 59.2 W	1996/11/17	84.0	82.0
530664	LA	41 18.9 N	008 59.2 W	1996/11/17	84.0	76.0
530676	LA	41 18.9 N	008 59.2 W	1996/11/17	84.0	53.0
530688	LA	41 18.9 N	008 59.2 W	1996/11/17	84.0	29.0
530707	LA	41 19.1 N	008 58.9 W	1998/01/29	84.0	26.5
530719	LA	41 19.1 N	008 58.9 W	1998/01/29	84.0	51.3
530720	LA	41 19.1 N	008 58.9 W	1998/01/29	84.0	81.0
530732	LA	41 19.1 N	008 58.9 W	1998/01/29	84.0	71.1
530744	LA	41 22.2 N	009 18.3 W	1999/05/05	2010.0	1230.0
530756	LA	41 22.2 N	009 18.3 W	1999/05/05	2010.0	130.0
530768	LA	41 22.2 N	009 18.3 W	1999/05/05	2010.0	80.0
530781	LA	41 22.2 N	009 18.3 W	1999/05/05	2010.0	430.0
542419	PC	41 55.1 N	009 19.3 W	1998/08/08	167.5	99.6
542420	PC	41 55.1 N	009 19.3 W	1998/08/08	167.5	34.6
542432	PC	41 55.1 N	009 19.3 W	1998/08/08	167.5	39.6
542444	PC	41 55.1 N	009 19.3 W	1998/08/08	167.5	79.6
542456	PC	41 55.1 N	009 19.3 W	1998/08/08	167.5	59.6
542468	PC	41 55.1 N	009 19.3 W	1998/08/08	167.5	14.6
542481	PC	41 55.1 N	009 19.3 W	1998/08/08	167.5	19.6
542493	PC	41 55.1 N	009 19.3 W	1998/08/08	167.5	24.6
542500	PC	41 55.1 N	009 19.3 W	1998/08/08	167.5	29.6
542524	LA	41 55.1 N	009 19.3 W	1998/08/08	167.5	10.0
542536	LA	42 37.5 N	010 01.5 W	1997/07/23	2240.0	620.0
542548	LA	42 38.5 N	009 42.3 W	1997/07/21	1450.0	1070.0
542561	LA	42 37.5 N	010 01.5 W	1997/07/23	2240.0	1070.0
542573	LA	42 37.5 N	010 01.5 W	1998/03/13	2240.0	1075.0
542585	LA	42 38.5 N	009 42.3 W	1997/07/21	1450.0	620.0
542597	LA	42 38.5 N	009 42.3 W	1998/03/13	1450.0	600.0
553153	PC	41 22.2 N	009 18.3 W	1999/05/05	2010.0	82.9
553165	MF	42 37.8 N	009 59.6 W	1997/07/21	2152.0	2149.0
553177	MF	42 37.8 N	009 52.4 W	1998/08/13	1957.0	1954.0
553189	MF	42 37.9 N	009 52.4 W	1998/08/06	1957.0	1954.0

where Data Type LA = Currents -subsurface Eulerian
MF = Multiple data types -fixed platform
PC = Hydrography time series at depth

Information for BODC Series Ref. No. 506049

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Time Series Inventory Number : 10099

Start Time : 10 Jun 1997 1515 GMT Latitude : 42deg 40.9min N
End Time : 16 Dec 1997 1645 GMT Longitude : 009deg 28.6min W

Nominal Cycle Interval : 1800.0 secs Sensor Depth : 155.00m
Sea Floor Depth : 156.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Depth Datum : Instantaneous

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Moored acoustic doppler current meter
Instrument Mounting : Sea floor - fixed
Originator Laboratory : University College Galway, Ireland
Originator's Identifier : P200#1.CD105

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The following **warning** applies to this series:

- 1) During deployment the ADCP landed upside down. No current meter data were therefore available and only temperature time series was submitted to BODC.**

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The following additional documents apply to this series:

Data Activity Document : 75002
Fixed Station Document : 75033
Project Document : 68089

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Information for BODC Series Ref. No. 517582

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Time Series Inventory Number : 10143

Start Time : 27 Dec 1997 1118 GMT Latitude : 42deg 40.7min N
End Time : 14 Jan 1998 1303 GMT Longitude : 009deg 30.5min W

Nominal Cycle Interval : 60.0 secs Minimum Depth : 201.05m
Maximum Depth : 202.78m Sea Floor Depth : 203.00m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference
Disposition of Sensors : Scattered at fixed depths

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Multiple data types -fixed platform
Instrument Type : Bottom Lander (miscellaneous instruments)
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : stablecd110

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Additional information stored with the data:

PRES01	1.950 m	LCD01	0.907 m
HEAD01	1.350 m	LCS04	0.762 m
PTC01	1.350 m	LCS03	0.582 m
ROL01	1.350 m	LCS02	0.402 m
TEMP01	1.350 m	LCS01	0.222 m

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
68616; Sediment Transport & Boundary Layer Equipment Mark II (STABLE2)
Data Activity Document : 77289
Fixed Station Document : 75033
Project Document : 68089

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Information for BODC Series Ref. No. 517594

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Time Series Inventory Number : 10144

Start Time : 01 Aug 1998 2006 GMT Latitude : 42deg 40.6min N
End Time : 20 Aug 1998 0612 GMT Longitude : 009deg 30.5min W

Nominal Cycle Interval : 60.0 secs Minimum Depth : 204.55m
Maximum Depth : 206.28m Sea Floor Depth : 206.50m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference
Disposition of Sensors : Scattered at fixed depths

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Multiple data types -fixed platform
Instrument Type : Bottom Lander (miscellaneous instruments)
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : stablecd114

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Additional information stored with the data:

Data channels and the related instrument heights above sea bed:

PRESPO01	1.950 m	LCDAEL01	0.907 m
HEADCM01	1.350 m	LCSAEL04	0.762 m
PTCHEI01	1.350 m	LCSAEL03	0.582 m
ROLLEI01	1.350 m	LCSAEL02	0.402 m
TEMPPR01	1.350 m	LCSAEL01	0.222 m

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
68616; Sediment Transport & Boundary Layer Equipment Mark II (STABLE2)
Data Activity Document : 77292
Fixed Station Document : 75033
Project Document : 68089

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Information for BODC Series Ref. No. 517601

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Time Series Inventory Number : 10145

Start Time : 28 Dec 1997 0000 GMT Latitude : 42deg 40.7min N
End Time : 13 Jan 1998 2300 GMT Longitude : 009deg 30.5min W

Nominal Cycle Interval : 3600.0 secs Minimum Depth : 201.05m
Maximum Depth : 202.78m Sea Floor Depth : 203.00m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference
Disposition of Sensors : Scattered at fixed depths

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Multiple data types -fixed platform
Instrument Type : Bottom Lander (miscellaneous instruments)
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : STABLE.CD110

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Additional information stored with the data:

Optical Backscatter Sensor (OBS) was fitted on the rig (STABLE2.CD110A).

The related data channel and instrument height is as follows:

TSEDBS01 1.350 m

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1

Data Activity Document : 77289

Fixed Station Document : 75033

Project Document : 68089

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Information for BODC Series Ref. No. 530584

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Time Series Inventory Number : 10477

Start Time : 30 Oct 1997 1800 GMT Latitude : 39deg 54.9min N
End Time : 09 Apr 1998 0000 GMT Longitude : 009deg 43.6min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 635.00m
Sea Floor Depth : 898.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 11449D.OMX

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The following **cautions** apply to this series:

- 1) **There is a gap in the current velocity data between 05/11/1997 and 29/11/1997.**
- 2) **The current meter pressure records indicate that the rig suffered disturbance in the early hours of 03/02/1998. The records show a sudden increase in meter depth of approximately 50m at this time. The mean depth after the event is approximately 4m deeper than it was before the event.**

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79642
Project Document : 68089

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Information for BODC Series Ref. No. 530596

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Time Series Inventory Number : 10478

Start Time : 30 Oct 1997 1800 GMT Latitude : 39deg 54.9min N
End Time : 11 Jun 1998 0000 GMT Longitude : 009deg 43.6min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 75.00m
Sea Floor Depth : 898.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9594F.OMX

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The following **caution** applies to this series:

- 1) **The current meter pressure records indicate that the rig suffered disturbance in the early hours of 03/02/1998. The records show a sudden increase in meter depth of approximately 50m at this time. The mean depth after the event is approximately 4m deeper than it was before the event.**

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79642
Project Document : 68089

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Information for BODC Series Ref. No. 530603

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Time Series Inventory Number : 10479

Start Time : 30 Oct 1997 1800 GMT Latitude : 39deg 54.9min N
End Time : 18 Jun 1998 0800 GMT Longitude : 009deg 43.6min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 335.00m
Sea Floor Depth : 898.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9596E.OMX

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The following **caution** applies to this series:

- 1) The current meter pressure records indicate that the rig suffered disturbance in the early hours of 03/02/1998. The records show a sudden increase in meter depth of approximately 50m at this time. The mean depth after the event is approximately 4m deeper than it was before the event.

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79642
Project Document : 68089

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Information for BODC Series Ref. No. 530615

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Time Series Inventory Number : 10484

Start Time : 18 Jun 1998 1300 GMT Latitude : 39deg 55.1min N
End Time : 10 Dec 1998 0000 GMT Longitude : 009deg 43.7min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 620.00m
Sea Floor Depth : 905.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 11467F.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79639
Project Document : 68089

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Information for BODC Series Ref. No. 530627

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Time Series Inventory Number : 10485

Start Time : 18 Jun 1998 1300 GMT Latitude : 39deg 55.1min N
End Time : 10 Dec 1998 0000 GMT Longitude : 009deg 43.7min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 120.00m
Sea Floor Depth : 905.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9590I.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79639
Project Document : 68089

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Information for BODC Series Ref. No. 530639

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Time Series Inventory Number : 10486

Start Time : 18 Jun 1998 1300 GMT Latitude : 39deg 55.1min N
End Time : 10 Dec 1998 0000 GMT Longitude : 009deg 43.7min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 70.00m
Sea Floor Depth : 905.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : P9601F.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79639
Project Document : 68089

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Information for BODC Series Ref. No. 530640

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Time Series Inventory Number : 10487

Start Time : 18 Jun 1998 1300 GMT Latitude : 39deg 55.1min N
End Time : 10 Dec 1998 0000 GMT Longitude : 009deg 43.7min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 320.00m
Sea Floor Depth : 905.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9860L.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79639
Project Document : 68089

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Information for BODC Series Ref. No. 530652

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Time Series Inventory Number : 10473

Start Time : 17 Nov 1996 1355 GMT Latitude : 41deg 18.9min N
End Time : 31 Jan 1997 0555 GMT Longitude : 008deg 59.2min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 82.00m
Sea Floor Depth : 84.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9596C.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79656
Project Document : 68089

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Information for BODC Series Ref. No. 530664

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Time Series Inventory Number : 10474

Start Time : 17 Nov 1996 1355 GMT Latitude : 41deg 18.9min N
End Time : 31 Jan 1997 0555 GMT Longitude : 008deg 59.2min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 76.00m
Sea Floor Depth : 84.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9600C.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79656
Project Document : 68089

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Information for BODC Series Ref. No. 530676

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Time Series Inventory Number : 10475

Start Time : 17 Nov 1996 1355 GMT Latitude : 41deg 18.9min N
End Time : 31 Jan 1997 0555 GMT Longitude : 008deg 59.2min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 53.00m
Sea Floor Depth : 84.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9601A.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79656
Project Document : 68089

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Information for BODC Series Ref. No. 530688

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Time Series Inventory Number : 10476

Start Time : 17 Nov 1996 1355 GMT Latitude : 41deg 18.9min N
End Time : 31 Jan 1997 0555 GMT Longitude : 008deg 59.2min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 29.00m
Sea Floor Depth : 84.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9602A.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79656
Project Document : 68089

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Information for BODC Series Ref. No. 530707

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Time Series Inventory Number : 10480

Start Time : 29 Jan 1998 1500 GMT Latitude : 41deg 19.1min N
End Time : 13 Apr 1998 2000 GMT Longitude : 008deg 58.9min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 26.50m
Sea Floor Depth : 84.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 10972G.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79673
Project Document : 68089

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Information for BODC Series Ref. No. 530719

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Time Series Inventory Number : 10481

Start Time : 29 Jan 1998 1500 GMT Latitude : 41deg 19.1min N
End Time : 17 May 1998 0400 GMT Longitude : 008deg 58.9min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 51.30m
Sea Floor Depth : 84.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 10974F.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79673
Project Document : 68089

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Information for BODC Series Ref. No. 530720

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Time Series Inventory Number : 10482

Start Time : 29 Jan 1998 1500 GMT Latitude : 41deg 19.1min N
End Time : 26 May 1998 0800 GMT Longitude : 008deg 58.9min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 81.00m
Sea Floor Depth : 84.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 77.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79673
Project Document : 68089

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Information for BODC Series Ref. No. 530732

=====

Time Series Inventory Number : 10483

Start Time : 29 Jan 1998 1500 GMT Latitude : 41deg 19.1min N
End Time : 10 May 1998 1200 GMT Longitude : 008deg 58.9min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 71.10m
Sea Floor Depth : 84.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9601D.OMX

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The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79673
Project Document : 68089

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Information for BODC Series Ref. No. 530744

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Time Series Inventory Number : 10488

Start Time : 05 May 1999 1600 GMT Latitude : 41deg 22.2min N
End Time : 06 Sep 1999 1200 GMT Longitude : 009deg 18.3min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 1230.00m
Sea Floor Depth : 2010.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 11467G.OMX

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79687
Project Document : 68089

=====

Information for BODC Series Ref. No. 530756

=====

Time Series Inventory Number : 10489

Start Time : 05 May 1999 1600 GMT Latitude : 41deg 22.2min N
End Time : 15 Aug 1999 0600 GMT Longitude : 009deg 18.3min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 130.00m
Sea Floor Depth : 2010.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9590J.OMX

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79687
Project Document : 68089

=====

Information for BODC Series Ref. No. 530768

=====

Time Series Inventory Number : 10490

Start Time : 05 May 1999 1600 GMT Latitude : 41deg 22.2min N
End Time : 10 Sep 1999 1600 GMT Longitude : 009deg 18.3min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 80.00m
Sea Floor Depth : 2010.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : P9601G.OMX

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79687
Project Document : 68089

=====

Information for BODC Series Ref. No. 530781

=====

Time Series Inventory Number : 10491

Start Time : 05 May 1999 1600 GMT Latitude : 41deg 22.2min N
End Time : 31 Aug 1999 2300 GMT Longitude : 009deg 18.3min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 430.00m
Sea Floor Depth : 2010.00m

Positional Uncertainty : 0.5 to 1.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 9860M.OMX

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79687
Project Document : 68089

=====

Information for BODC Series Ref. No. 542419

=====

Time Series Inventory Number : 10556

Start Time : 08 Aug 1998 1443 GMT Latitude : 41deg 55.1min N
End Time : 10 Aug 1998 1305 GMT Longitude : 009deg 19.3min W

Nominal Cycle Interval : 0.5 minutes Sensor Depth : 99.60m
Sea Floor Depth : 167.50m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - surface buoyancy
Originator Laboratory : University of Highlands and Islands
Originator's Identifier : tp2422.1/9

=====

The following additional documents apply to this series:

28000; Temperature Data Screening Carried Out by BODC 1 (Moored Meter)
70216; VEMCO MINILOG12 Temperature Data Logger
Data Activity Document : 79547
Project Document : 68089

=====

Information for BODC Series Ref. No. 542420

=====

Time Series Inventory Number : 10560

Start Time : 08 Aug 1998 1443 GMT Latitude : 41deg 55.1min N
End Time : 10 Aug 1998 1305 GMT Longitude : 009deg 19.3min W

Nominal Cycle Interval : 0.5 minutes Sensor Depth : 34.60m
Sea Floor Depth : 167.50m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - surface buoyancy
Originator Laboratory : University of Highlands and Islands
Originator's Identifier : tp2423.1/5

=====

The following additional documents apply to this series:

28000; Temperature Data Screening Carried Out by BODC 1 (Moored Meter)
70216; VEMCO MINILOG12 Temperature Data Logger
Data Activity Document : 79547
Project Document : 68089

=====

Information for BODC Series Ref. No. 542432

=====

Time Series Inventory Number : 10559

Start Time : 08 Aug 1998 1443 GMT Latitude : 41deg 55.1min N
End Time : 10 Aug 1998 1305 GMT Longitude : 009deg 19.3min W

Nominal Cycle Interval : 0.5 minutes Sensor Depth : 39.60m
Sea Floor Depth : 167.50m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - surface buoyancy
Originator Laboratory : University of Highlands and Islands
Originator's Identifier : tp2424.1/6

=====

The following additional documents apply to this series:

28000; Temperature Data Screening Carried Out by BODC 1 (Moored Meter)
70216; VEMCO MINILOG12 Temperature Data Logger
Data Activity Document : 79547
Project Document : 68089

=====

Information for BODC Series Ref. No. 542444

=====

Time Series Inventory Number : 10557

Start Time : 08 Aug 1998 1443 GMT Latitude : 41deg 55.1min N
End Time : 10 Aug 1998 1305 GMT Longitude : 009deg 19.3min W

Nominal Cycle Interval : 0.5 minutes Sensor Depth : 79.60m
Sea Floor Depth : 167.50m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - surface buoyancy
Originator Laboratory : University of Highlands and Islands
Originator's Identifier : tp2426.1/8

=====

The following additional documents apply to this series:

28000; Temperature Data Screening Carried Out by BODC 1 (Moored Meter)
70216; VEMCO MINILOG12 Temperature Data Logger
Data Activity Document : 79547
Project Document : 68089

=====

Information for BODC Series Ref. No. 542456

=====

Time Series Inventory Number : 10558

Start Time : 08 Aug 1998 1443 GMT Latitude : 41deg 55.1min N
End Time : 10 Aug 1998 1305 GMT Longitude : 009deg 19.3min W

Nominal Cycle Interval : 0.5 minutes Sensor Depth : 59.60m
Sea Floor Depth : 167.50m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - surface buoyancy
Originator Laboratory : University of Highlands and Islands
Originator's Identifier : tp2427.1/7

=====

The following additional documents apply to this series:

28000; Temperature Data Screening Carried Out by BODC 1 (Moored Meter)
70216; VEMCO MINILOG12 Temperature Data Logger
Data Activity Document : 79547
Project Document : 68089

=====

Information for BODC Series Ref. No. 542468

=====

Time Series Inventory Number : 10564

Start Time : 08 Aug 1998 1443 GMT Latitude : 41deg 55.1min N
End Time : 10 Aug 1998 1305 GMT Longitude : 009deg 19.3min W

Nominal Cycle Interval : 0.5 minutes Sensor Depth : 14.60m
Sea Floor Depth : 167.50m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - surface buoyancy
Originator Laboratory : University of Highlands and Islands
Originator's Identifier : tp2034.1/1

=====

The following additional documents apply to this series:

28000; Temperature Data Screening Carried Out by BODC 1 (Moored Meter)
70216; VEMCO MINILOG12 Temperature Data Logger
Data Activity Document : 79547
Project Document : 68089

=====

Information for BODC Series Ref. No. 542481

=====

Time Series Inventory Number : 10563

Start Time : 08 Aug 1998 1443 GMT Latitude : 41deg 55.1min N
End Time : 10 Aug 1998 1305 GMT Longitude : 009deg 19.3min W

Nominal Cycle Interval : 0.5 minutes Sensor Depth : 19.60m
Sea Floor Depth : 167.50m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - surface buoyancy
Originator Laboratory : University of Highlands and Islands
Originator's Identifier : tp2036.1/2

=====

The following additional documents apply to this series:

28000; Temperature Data Screening Carried Out by BODC 1 (Moored Meter)
70216; VEMCO MINILOG12 Temperature Data Logger
Data Activity Document : 79547
Project Document : 68089

=====

Information for BODC Series Ref. No. 542493

=====

Time Series Inventory Number : 10562

Start Time : 08 Aug 1998 1443 GMT Latitude : 41deg 55.1min N
End Time : 10 Aug1998 1305 GMT Longitude : 009deg 19.3min W

Nominal Cycle Interval : 0.5 minutes Sensor Depth : 24.60m
Sea Floor Depth : 167.50m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - surface buoyancy
Originator Laboratory : University of Highlands and Islands
Originator's Identifier : tp3129.1/3

=====

The following additional documents apply to this series:

28000; Temperature Data Screening Carried Out by BODC 1 (Moored Meter)
70216; VEMCO MINILOG12 Temperature Data Logger
Data Activity Document : 79547
Project Document : 68089

=====

Information for BODC Series Ref. No. 542500

=====

Time Series Inventory Number : 10561

Start Time : 08 Aug 1998 1443 GMT Latitude : 41deg 55.1min N
End Time : 10 Aug 1998 1305 GMT Longitude : 009deg 19.3min W

Nominal Cycle Interval : 0.5 minutes Sensor Depth : 29.60m
Sea Floor Depth : 167.50m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - surface buoyancy
Originator Laboratory : University of Highlands and Islands
Originator's Identifier : tp3130.1/4

=====

The following additional documents apply to this series:

28000; Temperature Data Screening Carried Out by BODC 1 (Moored Meter)
70216; VEMCO MINILOG12 Temperature Data Logger
Data Activity Document : 79547
Project Document : 68089

=====

Information for BODC Series Ref. No. 542524

=====

Time Series Inventory Number : 10565

Start Time : 08 Aug 1998 1444 GMT Latitude : 41deg 55.1min N
End Time : 10 Aug 1998 1305 GMT Longitude : 009deg 19.3min W

Nominal Cycle Interval : 60.0 secs Sensor Depth : 10.00m
Sea Floor Depth : 167.50m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Electromagnetic current meter
Instrument Mounting : Subsurface mooring - surface buoyancy
Originator Laboratory : University of Highlands and Islands
Originator's Identifier : CD114.S4

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
40555; InterOcean Spherical Solid State Sensor Current Meter, Model S4/S4D
Data Activity Document : 79547
Project Document : 68089

=====

Information for BODC Series Ref. No. 542536

=====

Time Series Inventory Number : 10670

Start Time : 23 Jul 1997 1018 GMT Latitude : 42deg 37.5min N
End Time : 28 Feb 1998 1017 GMT Longitude : 010deg 01.5min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 620.00m
Sea Floor Depth : 2240.00m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring - subsurface buoyancy
Originator Laboratory : Institut fur Meereskunde, Germany
Originator's Identifier : 12357A

=====

Additional information stored with the data:

A magnetic correction of -6.0 degrees was applied to the current direction.

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79564
Project Document : 68089

=====

Information for BODC Series Ref. No. 542548

=====

Time Series Inventory Number : 10668

Start Time : 21 Jul 1997 1201 GMT Latitude : 42deg 38.5min N
End Time : 01 Mar 1998 1001 GMT Longitude : 009deg 42.3min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 1070.00m
Sea Floor Depth : 1450.00m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring - subsurface buoyancy
Originator Laboratory : Institut fur Meereskunde, Germany
Originator's Identifier : 12358A

=====

Additional information stored with the data:

A magnetic correction of -5.8 degrees was applied to the current direction.

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document: 79550
Project Document : 68089

=====

Information for BODC Series Ref. No. 542561

=====

Time Series Inventory Number : 10671

Start Time : 23 Jul 1997 1114 GMT Latitude : 42deg 37.5min N
End Time : 28 Feb 1998 0914 GMT Longitude : 010deg 01.5min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 1070.00m
Sea Floor Depth : 2240.00m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring - subsurface buoyancy
Originator Laboratory : Institut fur Meereskunde, Germany
Originator's Identifier : 12359A

=====

Additional information stored with the data:

A magnetic correction of -6.0 degrees was applied to the current direction.

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document: 79564
Project Document : 68089

=====

Information for BODC Series Ref. No. 542573

=====

Time Series Inventory Number : 10672

Start Time : 13 Mar 1998 1442 GMT Latitude : 42deg 37.5min N
End Time : 04 Jan 1999 1042 GMT Longitude : 010deg 01.5min W

Nominal Cycle Interval : 120.0 minutes Sensor Depth : 1075.00m
Sea Floor Depth : 2240.00m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring - subsurface buoyancy
Originator Laboratory : Institut fur Meereskunde, Germany
Originator's Identifier : 12359B

=====

Additional information stored with the data:

A magnetic correction of -5.8 degrees was applied to the current direction.

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79581
Project Document : 68089

=====

Information for BODC Series Ref. No. 542585

=====

Time Series Inventory Number : 10669

Start Time : 21 Jul 1997 1203 GMT Latitude : 42deg 38.5min N
End Time : 01 Mar 1998 0203 GMT Longitude : 009deg 42.3min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 620.00m
Sea Floor Depth : 1450.00m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring - subsurface buoyancy
Originator Laboratory : Institut fur Meereskunde, Germany
Originator's Identifier : 12361A

=====

Additional information stored with the data:

A magnetic correction of -5.8 degrees was applied to the current direction.

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79550
Project Document : 68089

=====

Information for BODC Series Ref. No. 542597

=====

Time Series Inventory Number : 10673

Start Time : 13 Mar 1998 1315 GMT Latitude : 42deg 38.5min N
End Time : 29 Oct 1998 2315 GMT Longitude : 009deg 42.3min W

Nominal Cycle Interval : 120.0 minutes Sensor Depth : 600.00m
Sea Floor Depth : 1450.00m

Positional Uncertainty : 0.05 to 0.1 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring - subsurface buoyancy
Originator Laboratory : Institut fur Meereskunde, Germany
Originator's Identifier : 12361B

=====

The following **warning** applies to this series:

- 1) This current meter was trawled by a fishing vessel (22 Oct 1998). The series contains no useful current data as only directions between 290 and 300 degrees have been recorded.**

=====

Additional information stored with the data:

A magnetic correction of -5.7 degrees was applied to the current direction.

=====

The following additional documents apply to this series:

6200; Current Meter Data Screening carried out by BODC 1
65611; Aanderaa Recording Current Meter Model 7/8
Data Activity Document : 79578
Project Document : 68089

=====

Information for BODC Series Ref. No. 553153

=====

Time Series Inventory Number : 10677

Start Time : 05 May 1999 1600 GMT Latitude : 41deg 22.2min N
End Time : 25 Aug 1999 0100 GMT Longitude : 009deg 18.3min W

Nominal Cycle Interval : 3600.0 secs Minimum Depth : 82.90m
Maximum Depth : 101.00m Sea Floor Depth : 2010.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference
Disposition of Sensors : Scattered at fixed depths

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Hydrography time series at depth
Instrument Type : Thermistor chain
Instrument Mounting : Subsurface mooring
Originator Laboratory : Instituto Hidrografico, Portugal
Originator's Identifier : 1540.OMX

=====

Additional information stored with the data:

The thermistor chain had nine temperature sensors at depths of 82.9, 85.1, 87.4, 89.6, 91.8, 94.0, 96.2, 98.5, and 100.7 metres. Channel 01 (dimension 1) contains data from the shallowest sensor.

The data logger, incorporating a pressure sensor, was located at a depth of 101.0 metres.

=====

The following additional documents apply to this series:

28000; Temperature Data Screening Carried Out by BODC 1 (Moored Meter)
Data Activity Document : 79687
Project Document : 68089

=====

Information for BODC Series Ref. No. 553165

=====

Time Series Inventory Number : 10674

Start Time : 21 Jul 1997 1902 GMT Latitude : 42deg 37.8min N
End Time : 13 Aug 1998 0932 GMT Longitude : 009deg 59.6min W

Nominal Cycle Interval : 600.0 secs Minimum Depth : 2149.00m
Maximum Depth : 2151.75m Sea Floor Depth : 2152.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference
Disposition of Sensors : Scattered at fixed depths

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Multiple data types -fixed platform
Instrument Type : Bottom Lander (miscellaneous instruments)
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Netherlands Institute for Sea Research
Originator's Identifier : BOBO1/1

=====

The following **caution** applies to this series:

- 1) The relative salinity values show a clear and credible signal with the exception of a few spikes. However, comparison with calibrated CTD data shows that the absolute values are approximately 1 PSU too high.**

=====

The following additional documents apply to this series:

80074; BOBO1 Benthic Lander
Data Activity Document : 80057
Project Document : 68089

=====

Information for BODC Series Ref. No. 553177

=====

Time Series Inventory Number : 10676

Start Time : 13 Aug 1998 1009 GMT Latitude : 42deg 37.8min N
End Time : 28 May 1999 0554 GMT Longitude : 009deg 52.4min W

Nominal Cycle Interval : 900.0 secs Minimum Depth : 1954.00m
Maximum Depth : 1956.50m Sea Floor Depth : 1957.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference
Disposition of Sensors : Scattered at fixed depths

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Multiple data types -fixed platform
Instrument Type : Bottom Lander (miscellaneous instruments)
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Netherlands Institute for Sea Research
Originator's Identifier : BOBO2/2

=====

The following additional documents apply to this series:

80088; BOBO2 Benthic Lander
Data Activity Document : 80043
Project Document : 68089

=====

Information for BODC Series Ref. No. 553189

=====

Time Series Inventory Number : 10675

Start Time : 06 Aug 1998 1203 GMT Latitude : 42deg 37.9min N
End Time : 13 Aug 1998 0518 GMT Longitude : 009deg 52.4min W

Nominal Cycle Interval : 300.0 secs Minimum Depth : 1954.00m
Maximum Depth : 1956.50m Sea Floor Depth : 1957.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference
Disposition of Sensors : Scattered at fixed depths

Project : Ocean Margin EXchange Project (OMEX)

Data Category : Multiple data types -fixed platform
Instrument Type : Bottom Lander (miscellaneous instruments)
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Netherlands Institute for Sea Research
Originator's Identifier : BOBO2/1

=====

The following **caution** applies to this series:

- 1) **The relative salinity values show a clear and credible signal with the exception of a few spikes. However, comparison with calibrated CTD data shows that the absolute values are approximately 1 PSU too high.**

=====

The following additional documents apply to this series:

80088; BOBO2 Benthic Lander
Data Activity Document : 80026
Project Document : 68089

=====

BODC Headed Document No. 6200

Applies to BODC Series Ref. Nos.: 517582, 517594, 517601, 530584,
530596, 530603, 530615, 530627, 530639, 530640,
530652, 530664, 530676, 530688, 530707, 530719,
530720, 530732, 530744, 530756, 530768, 530781,
542524, 542536, 542548, 542561, 542573, 542585,
542597

Current Meter Data Screening carried out by BODC

=====

BODC screen both the series header qualifying information and the parameter values in the data cycles themselves.

Header information is inspected for:

- 1) Irregularities such as infeasible values
- 2) Inconsistencies between related information, for example:
 - depths of meter and sea bed
 - times for mooring deployment and for start/end of data series
 - length of record or number of data cycles, the cycle interval, the clock error and the period over which accrued
- 3) Originator's comments on meter/mooring performance or data quality

Documents are written by BODC highlighting irregularities that cannot be resolved.

Data cycles are inspected using time series plots of all parameters. Currents are additionally inspected using vector scatter plots and time series plots of North and East velocity components. These presentations undergo intrinsic and extrinsic screening to detect infeasible values within the data cycles themselves and inconsistencies as seen when comparing characteristics of adjacent data sets displaced with respect to depth, position or time. Values suspected of being of non-oceanographic origin may be tagged with the BODC flag denoting suspect value.

The following types of irregularity, each relying on visual detection in the time series plot, are amongst those that may be flagged as suspect:

- Spurious data at the start or end of the record.
- Obvious spikes occurring in periods free from meteorological disturbance.
- A sequence of constant values in consecutive data cycles.

If a large percentage of the data is affected by irregularities, deemed abnormal, then instead of flagging the individual suspect values, a caution may be documented. Likewise documents will highlight irregularities seen in the current vector scatter plots such as incongruous centre holes, abnormal asymmetry in tidally dominated records or gaps as when a range of speeds or directions go unregistered due to meter malfunction.

Inconsistencies between the characteristics of the data set and those of its neighbours are sought, and where necessary, documented. This covers inconsistencies in the following:

- Maximum and minimum values of parameters (spikes excluded)
- The orientation and symmetry of the current vector scatter plot
- The direction of rotation of the current vectors
- The approximate amplitude and periodicity of the tidal currents
- The occurrence of meteorological events and, finally, for series for which no time check was possible, the phase

This intrinsic and extrinsic screening of the parameter values seeks to confirm the qualifying information and the source laboratory's comments on the series. In screening and collating information, every care is taken to ensure that errors of BODC making are not introduced.

BODC Headed Document No. 28000

Applies to BODC Series Ref. Nos.: 542419, 542420, 542432, 542444,
542456, 542468, 542481, 542493, 542500, 553153

Temperature Data Screening Carried Out by BODC (Moored Meter)

=====

BODC screen both the series header qualifying information and the parameter values in the data cycles themselves.

Header information is inspected for:

- 1) Irregularities such as infeasible values
- 2) Inconsistencies between related information, for example:
 - depths of meter and sea bed
 - times for mooring deployment and for start/end of data series
 - length of record or number of data cycles, the cycle interval, the clock error and the period over which accrued
- 3) Originator's comments on meter/mooring performance or data quality

Documents are written by BODC highlighting irregularities that cannot be resolved.

Data cycles are inspected via time series plot presentations of parameters. These presentations undergo intrinsic and extrinsic screening to detect infeasible values within the data cycles themselves and inconsistencies as seen when comparing characteristics of adjacent data sets displaced with respect to depth, position or time. Values suspected of being of non-oceanographic origin may be tagged with the BODC flag denoting suspect value.

The following types of irregularity, each relying on visual detection in the time series plot, are amongst those that may be flagged as suspect:

- Spurious data at the start or end of the record.
- Obvious spikes of non-oceanographic origin.

If a large percentage of the data are affected by irregularities, deemed abnormal, then instead of flagging the individual suspect values, a caution may be documented.

Inconsistencies between the characteristics of the data set and those of its neighbours, as for example between the maximum and minimum values of the parameters (spikes excluded) are, where necessary, documented.

This intrinsic and extrinsic screening of the parameter values seeks to confirm the qualifying information and the source laboratory's comments on the series. In screening and collating information, every care is taken to ensure that errors of BODC making are not introduced.

BODC Headed Document No. 40555

Applies to BODC Series Ref. Nos.: 542524

InterOcean Spherical Solid State Sensor Current Meter, Model S4/S4D

=====

Manufacturer's specification: Meter (sphere, diameter 25cm) is designed for depths down to 1000m (S4 standard: glass-filled cycloaliphatic epoxy construction with grooved surface for hydrodynamic stability) or down to 6000m (S4D, deep: annealed borosilicate glass version with smooth surface). The meter is shackled directly into the mooring cable by means of an axial titanium load bearing shaft.

Meter comprises:

- 1) Electromagnetic, 2 axis current speed sensor, range 0 to 350cm/s (standard) 0 to 50 and 0 to 100cm/s (optional), resolution 0.2cm/s (standard) 0.03cm/s (0 to 50 range) 0.06cm/s (0 to 100 range), accuracy 2 per cent reading +/- 1cm/s. The sensor responds to the component of flow normal to its vertical axis.
- 2) Flux-gate magnetometer compass for heading information used to reference the current direction to magnetic north, compass range 360deg, resolution 0.5deg, accuracy 2deg, tilt +/- 25deg for specified accuracy.
- 3) Temperature stable quartz oscillator clock, accuracy 12 minutes/year.
- 4) Optional automatic tilt compensation i.e. the allowable tilt of the meter from the vertical at which the vertical cosine response is fully corrected, angle range +/- 45deg, resolution 0.6deg, accuracy (speed correction) 1 per cent (angle output) 0.25deg.
- 5) Optional semiconductor (thermistor or platinum) temperature sensor, range -5 to +45deg C, resolution 0.05deg C, accuracy 0.2deg C, response time at 63 per cent 1 min (1.5 sec thermistor or 60msec platinum).
- 6) Optional conductive conductivity sensor, range 5 to 70mS/cm, resolution 0.1mS/cm, accuracy 0.2mS/cm (optional inductive sensor, range 1 to 70mS/cm).
- 7) Optional semiconductor strain gauge pressure sensor, range 0 to 1000dBar (70M option), resolution 1dBar (4mm with 70M option), accuracy 0.25 per cent fs.
- 8) Recorder, CMOS static RAM microprocessor, 64KByte (128K or 256KByte optional) performs vector averaging, burst sampling and adaptive sampling.

The S4 is a self-contained current measuring sensor enclosing all necessary solid state electronics for acquiring, processing and outputting data. Data retrieval is accomplished through a serial port without opening the instrument.

The spherical shape of the S4 is a contributing factor in the rejection of the vertical components of water movement and there are no protruding parts or sensor support structures to interfere with the water flow.

The S4 measures the magnitude and direction of the horizontal current motion of the water. Water flows through the electromagnetic field created by the instrument, thereby producing a voltage that is proportional to the magnitude of the water velocity past the sensor. This voltage is then sensed by two pairs of titanium electrodes located symmetrically on the equator of the spherical housing that forms the sensor.

BODC Headed Document No. 65611

Applies to BODC Series Ref. Nos.: 530584, 530596, 530603, 530615,
530627, 530639, 530640, 530652, 530664, 530676,
530688, 530707, 530719, 530720, 530732, 530744,
530756, 530768, 530781, 542536, 542548, 542561,
542573, 542585, 542597

Aanderaa Recording Current Meter Model 7/8

=====

Manufacturer's specifications: recording unit height 49.5cm (RCM8 52.0cm), diameter 12.8cm, vane size 48.5x50.0cm. Meter is designed for depths down to 2000m (RCM8 6000m). It incorporates a spindle, which is shackled to the mooring line. The meter is attached to the spindle through a gimbal mounting which permits a maximum 27deg deviation of the spindle from the vertical, the meter still remaining horizontal.

Meter comprises:

- 1) paddle wheel rotor magnetically coupled to an electronic counter.
- 2) vane, which aligns instrument with current flow, has a balance weight ensuring static balance and tail fins to ensure dynamic balance in flows up to 250cm/s.
- 3) magnetic compass (needle is clamped to potentiometer ring) - direction recorded with 0.35deg resolution, 5deg accuracy for speeds 5 to 100cm/s, 7.5deg accuracy for remaining speeds within 2.5 to 200cm/s range.
- 4) quartz clock, accuracy better than 2sec/day within temperature range 0 to 20degC.
- 5) thermistor (temperature sensor), standard range -2.46 to 21.48degC (max on high range 36.04degC), accuracy 0.05degC, resolution 0.1 per cent of range, 63 per cent response time 12sec.
- 6) inductive cell conductivity sensor (optional), range 0 to 70mmho/cm standard resolution 0.1 per cent of range.
- 7) silicon piezoresistive bridge, standard range 0 to 3000 psi (RCM8 to 9000 psi), resolution 0.1% of range.
- 8) self balancing potentiometer which converts the output from each sensor into a 10 bit binary number for storage on magnetic tape.
- 9) associated electronics.

A built-in clock triggers the instrument at preset intervals and up to six channels are sampled in sequence. Channel 1 is a fixed reference reading for control purposes and data identification. Channels 2, 3 and 4 represent measurement of temperature, conductivity and pressure. Channels 5 and 6 represent the VECTOR AVERAGED current speed and direction since the previous triggering of the instrument. The number of rotor revolutions and the direction is sampled every 12 seconds and broken into North and East components. Successive components are added and recorded as speed and direction. For recording intervals longer than 10 minutes, speed and direction are sampled 1/50th of recording interval.

BODC Headed Document No. 68616

Applies to BODC Series Ref. Nos.: 517582, 517594

Sediment Transport and Boundary Layer Equipment Mark II (STABLE2)

=====

Pop-up STABLE2 is a benthic lander consisting of a large aluminium frame standing on tripod legs, designed and built at the Proudman Oceanographic Laboratory. It is fitted with syntactic foam buoyancy, two Benthos transponding releases, mechanical releases and disposable ballast. When the Benthos releases receive a coded acoustic command from the mother ship, the ballast is released and the instrument pops up to the surface.

Current speeds are measured at four heights by Savonius rotor meters. Current direction is measured by a single vane.

Instruments on the frame (with their corresponding heights above sea bed)

1.950 m	D/Q pressure sensor
1.350 m	"Mean" logger with temperature sensor and the compass
0.907 m	Vane
0.762 m	R4 Savonius rotor
0.582 m	R3 Savonius rotor
0.402 m	R2 Savonius rotor
0.222 m	R1 Savonius rotor

For more information refer to POL Report No 37 1994 (Description and Interpretation of Data Recorded by STABLE II During Charles Darwin Cruise 84, OMEX, Goban Spur, January 1994; J.D. Humphery and S.P. Moores).

BODC Headed Document No. 70216

Applies to BODC Series Ref. Nos.: 542419, 542420, 542432, 542444,
542456, 542468, 542481, 542493, 542500

Vemco Minilog12 Temperature Data Logger

=====

The Vemco Minilog12-T is a miniature data logger that records temperature at a user programmed time interval. It is housed in a waterproof cylinder and the temperature sensor is mounted on a protruding stainless steel probe.

Specifications:-

Memory:	32k, 21760 temperature readings stored in Electrically Erasable Programmable Read Only Memory (EEPROM). Logging duration is between 6 hours and 5 years depending on the logging interval.
Data retention:	20 years.
Temperature range:	-3 to 36 degC; 0.01 degC resolution; +/-0.1 degC accuracy with factory calibration.
Maximum depth:	1000m
Communication link:	Infrared LED. No external connections are required. Full memory downloads in 3 minutes.
Battery:	Internal lithium battery with life of up to 5 years or up to 1000 full deployments.

BODC Headed Document No. 80074

Applies to BODC Series Ref. Nos.: 553165

BOBO1 Benthic Lander

=====

The BOttom BOundary layer lander (BOBO) was developed at the Netherlands Institute for Sea Research (NIOZ) to make near-bottom measurements of currents, temperature, salinity and turbidity for periods of up to a year.

BOBO1 was equipped with a modified NE Sensortec UCM60 acoustic current meter, measuring current velocity at heights of 25, 50, 75 and 100cm above the seabed. A SeaBird SBE16 conductivity and temperature probe measured temperature and salinity 3m above the seafloor. A SeaTech 25cm path length red light transmissometer and a SeaPoint OBS sensor were mounted 1m and 2m respectively above the seabed.

A pair of Camera Alive cameras, mounted 2m above the base of the lander, took time-lapse photographs.

BODC Headed Document No. 80088

Applies to BODC Series Ref. Nos.: 553177, 553189

BOBO2 Benthic Lander

=====

The BOttom BOundary layer lander (BOBO) was developed at the Netherlands Institute for Sea Research (NIOZ) to make near-bottom measurements of currents, temperature, salinity and turbidity for periods of up to a year.

BOBO2 was equipped with an RDI ADCP capable of measuring current velocities at 5cm intervals over the bottom 200 cm of the water column. A SeaBird SBE16 conductivity and temperature probe measured temperature and salinity 3m above the seafloor. Two SeaPoint OBS sensors were mounted 1m and 3m above the seabed.

BODC Data Activity Document No. 75002

Applies to BODC Series Ref. Nos.: 506049

ADCP mooring P200#1

=====

Site: O2P200

Position: 42° 40.94'N, 09° 28.57'W

Water depth: 156 m

Deployed: 10 Jun 1997 12:42 from RRS Charles Darwin (CD105B)

Recovered: 17 Dec 1997 12:42 (rough estimate; the mooring was dredged out by a Spanish trawler)

BODC Data Activity Document No. 77289

Applies to BODC Series Ref. Nos.: 517582, 517601

OMEX2 STABLE2 Rig

=====

Site: O2P200

Position: 42° 40.68'N, 09° 30.52'W

Water depth: 203 m

Deployed: 27 Dec 1997 11:17 from RRS Charles Darwin (CD110A)

Recovered: 14 Jan 1998 15:00 from RRS Charles Darwin (CD110B)

BODC Data Activity Document No. 77292

Applies to BODC Series Ref. Nos.: 517594

OMEX2 STABLE2 Rig

=====

Site: O2P200

Position: 42° 40.57'N, 09° 30.52'W

Water depth: 206.5 m

Deployed: 01 Aug 1998 19:57 from RRS Charles Darwin (CD114A)

Recovered: 20 Aug 1998 07:50 from RRS Charles Darwin (CD114A)

BODC Data Activity Document No. 79547

Applies to BODC Series Ref. Nos.: 542419, 542420, 542432, 542444,
542456, 542468, 542481, 542493, 542500, 542524

Rig OMEX2/CD114/STA1

Position: 41° 55.11'N, 09° 19.34'W

Water depth: 167.5 m

Deployed: 08 Aug 1998 from Charles Darwin (CD114A)

Recovered: 10 Aug 1998 from Charles Darwin (CD114A)

Single point mooring with glass spheres for tension

Instruments deployed on the rig (with depths below the surface):

10.0 m	S4 current meter (#04670920)
14.6 m	Vemco temperature minilogger (#2034)
19.6 m	Vemco temperature minilogger (#2036)
24.6 m	Vemco temperature minilogger (#3129)
29.6 m	Vemco temperature minilogger (#3130)
34.6 m	Vemco temperature minilogger (#2423)
39.6 m	Vemco temperature minilogger (#2424)
59.6 m	Vemco temperature minilogger (#2427)
79.6 m	Vemco temperature minilogger (#2426)
99.6 m	Vemco temperature minilogger (#2422)

BODC Data Activity Document No. 79550

Applies to BODC Series Ref. Nos.: 542548, 542585

Rig OMEX2/IM2A

=====

Iberian Margin site 2

Position: 42° 38.7'N, 09° 41.8'W

Water depth: 1450 m

Deployed: 21 Jul 1997 from Pelagia (PLG109)

Recovered: 01 Mar 1998 from Poseidon (PS237_1)

Taut wire mooring with a net positive buoyancy of 700kg and bottom anchor of 1200kg.

Instruments deployed on the rig (with depths below the surface):

618 m	Sediment trap
641 m	Aanderra RCM8 current meter (#12361)
1075 m	Sediment trap
1099 m	Aanderra RCM8 current meter (#12358)

BODC Data Activity Document No. 79564

Applies to BODC Series Ref. Nos.: 542536, 542561

Rig OMEX2/IM3A

=====

Iberian Margin site 3

Position: 42° 37.7'N, 10° 01.7'W

Water depth: 2240 m

Deployed: 23 Jul 1997 from Pelagia (PLG109)

Recovered: 28 Feb 1998 from Poseidon (PS237_1)

Taut wire mooring with a net positive buoyancy of 700kg and bottom anchor of 1200kg.

Instruments deployed on the rig (with depths below the surface):

598 m	Sediment trap
621 m	Aanderra RCM8 current meter (#12357)
1078 m	Sediment trap
1102 m	Aanderra RCM8 current meter (#12359)
1718 m	Sediment trap (malfunctioned due to corrosion and flooding)
1741 m	Aanderra RCM8 current meter

BODC Data Activity Document No. 79578

Applies to BODC Series Ref. Nos.: 542597

Rig OMEX2/IM2B

=====

Iberian Margin site 2

Position: 42° 38.4'N, 09° 42.1'W

Water depth: 1450 m

Deployed: 13 Mar 1998 from Poseidon (PS237_1)

Taut wire mooring with a net positive buoyancy of 700kg and bottom anchor of 1200kg.

Instruments deployed on the rig (with depths below the surface):

580 m	Sediment trap
600 m	Aanderra RCM8 current meter (#12361)
650 m	In situ pump
1050 m	Sediment trap
1070 m	Aanderra RCM8 current meter
1120 m	In situ pump

The upper trap and current meter were recovered by a fishing vessel north of the original position in October 1998. The lower part of the mooring was lost.

BODC Data Activity Document No. 79581

Applies to BODC Series Ref. Nos.: 542573

Rig OMEX2/IM3B

Iberian Margin site 3

Position: 42° 37.7'N, 10° 01.7'W

Water depth: 2240 m

Deployed: 13 Mar 1998 from Poseidon (PS237_1)

Recovered: 02 Jan 1999 from Meteor (M43/2)

Taut wire mooring with a net positive buoyancy of 700kg and bottom anchor of 1200kg.

Instruments deployed on the rig (with depths below the surface):

570 m	Sediment trap
590 m	Aanderra RCM8 current meter
645 m	In situ pump
1050 m	Sediment trap
1075 m	Aanderra RCM8 current meter (#12359)
1750 m	Sediment trap (malfunctioned)
1770 m	Aanderra RCM8 current meter (flooded - no data)

BODC Data Activity Document No. 79639

Applies to BODC Series Ref. Nos.: 530615, 530627, 530639, 530640

Rig SPM98

=====

A current meter mooring maintained over the upper slope offshore from S. Pedro Muel.

Position: 39° 55.1'N, 09° 43.7'W

Water depth: 905 m

Deployed: 18 Jun 1998 from NRP Andromeda

Recovered: 10 Dec 1998

Instruments deployed on the rig (with heights above sea bed):

835 m	Aanderaa current meter RCM7#C9601
785 m	Aanderaa current meter RCM7#C9590
585 m	Aanderaa current meter RCM7#C9860
285 m	Aanderaa current meter RCM7#C11467

BODC Data Activity Document No. 79642

Applies to BODC Series Ref. Nos.: 530584, 530596, 530603

RIG SPM97

=====

A current meter mooring maintained over the upper slope offshore from S. Pedro Muel.

Position: 39° 54.9'N, 09° 43.6'W

Water depth: 898 m

Deployed: 30 Oct 1997 from NRP Auriga

Recovered: 18 Jun 1998 from NRP Andromeda

Instruments deployed on the rig (with heights above sea bed):

823 m	Aanderaa current meter RCM7#D9594
563 m	Aanderaa current meter RCM7#D9596
263 m	Aanderaa current meter RCM7#D11449

BODC Data Activity Document No. 79656

Applies to BODC Series Ref. Nos.: 530652, 530664, 530676, 530688

RIG VCSHEL96

=====

A current meter mooring maintained over the mid-shelf offshore from Vala do Conde.

Position: 41° 18.9'N, 08° 59.2'W

Water depth: 84 m

Deployed: 17 Nov 1996 from NRP Corvet

Recovered: 31 Jan 1997

Instruments deployed on the rig (with heights above sea bed):

55 m	Aanderaa current meter RCM7#H9602
31 m	Aanderaa current meter RCM7#H9601
8 m	Aanderaa current meter RCM7#H9600
2 m	Aanderaa current meter RCM7#H9596

BODC Data Activity Document No. 79673

Applies to BODC Series Ref. Nos.: 530707, 530719, 530720, 530732

RIG VCSHEL98

=====

A current meter mooring maintained over the mid-shelf offshore from Vala do Conde.

Position: 41° 19.1'N, 08° 58.9'W

Water depth: 84 m

Deployed: 29 Jan 1998 from NRP Auriga

Recovered: 26 May 1998

Instruments deployed on the rig (with heights above sea bed):

58 m	Aanderaa current meter RCM7#H10972
33 m	Aanderaa current meter RCM7#H10974
13 m	Aanderaa current meter RCM7#H9601
3 m	Aanderaa current meter RCM9#H77

BODC Data Activity Document No. 79687

Applies to BODC Series Ref. Nos.: 530744, 530756, 530768, 530781,
553153

RIG VCSLOPE99

=====

A current meter and thermistor chain mooring maintained over the slope offshore from Vala do Conde.

Position: 41° 22.2'N, 09° 18.3'W

Water depth: 2010 m

Deployed: 05 May 1999 from NRP Almeida Carvalho

Recovered: 15 Aug 1999

Instruments deployed on the rig (with heights above sea bed):

2027 m	Top thermistor chain thermistor
1909 m	Bottom thermistor chain thermistor
1909 m	Thermistor chain logger#H1540 and pressure sensor
1930 m	Aanderaa current meter RCM7#H9601
1880 m	Aanderaa current meter RCM7#H9590
1580 m	Aanderaa current meter RCM7#H9860
780 m	Aanderaa current meter RCM7#H11467

BODC Data Activity Document No. 80026

Applies to BODC Series Ref. Nos.: 553189

BOBO2 Lander Deployment OMEX2/BOBO2/1

=====

Position: 42° 37.88'N, 09° 52.44'W

Water depth: 1957 m

Deployed: 06 Aug 1998 from RV Pelagia cruise PLG121

Recovered: 13 Aug 1998 from RV Pelagia cruise PLG121

BODC Data Activity Document No. 80043

Applies to BODC Series Ref. Nos.: 553177

BOBO2 Lander Deployment OMEX2/BOBO2/2

=====

Position: 42° 37.76'N, 09° 52.37'W

Water depth: 1957 m

Deployed: 13 Aug 1998 from RV Pelagia cruise PLG121

Recovered: 28 May 1999 from RV Pelagia cruise PLG138

ADCP failed after approximately one month

1m OBS failed after approximately 5.5 months

BODC Data Activity Document No. 80057

Applies to BODC Series Ref. Nos.: 553165

BOBO1 Lander Deployment OMEX2/BOBO1/1

=====

Position: 42° 37.85'N, 09° 59.59'W

Water depth: 2152 m

Deployed: 21 Jul 1997 from RV Pelagia cruise PLG109

Recovered: 13 Aug 1998 from RV Pelagia cruise PLG121

Current meter failed after three days

1m transmissometer returned no data

BODC Fixed Station Document No. 75033

Applies to BODC Series Ref. Nos.: 06049, 517582, 517594, 517601

Site O2P200

=====

At this site the following moorings were deployed:

ADCP	Jun 1997 - Dec 1997
STABLE2	Dec 1997 - Jan 1998
STABLE2	Aug 1998

BODC Project Document No. 68089

This document applies to all series.

Ocean Margin EXchange Project (OMEX)

=====

OMEX was a European research project supported by the European Commission in the framework of its MARine Science and Technology Programme (MAST). It studied and quantified the exchange processes of carbon and associated elements between the continental shelf of Western Europe and the open Atlantic Ocean. Research was conducted to develop hydrodynamical, biogeochemical and ecological models that characterise cross-shelf and pelagic-benthic exchange processes.

The aim of the Ocean Margin EXchange (OMEX) project was to gain a better understanding of the physical, chemical and biological processes occurring at the ocean margins in order to quantify fluxes of energy and matter across this boundary. Recognising the environmental significance of shelf-edge exchange and its role in global biogeochemical cycling, this MAST initiative aimed to characterise the flux of carbon, nutrients and other trace elements between the open ocean and the coastal seas.

During OMEX I (1993-1996) investigations concentrated in the Northeastern Atlantic Ocean on the Celtic Sea shelf edge, which links a relatively broad continental shelf with the deep sea. OMEX II (1997-2000) was designed to look at a contrasting system, the relatively narrow Iberian margin off the northwestern Spanish and Portuguese coasts. Designed to meet the priority goals of the International Geosphere-Biosphere Programme (IGBP), OMEX took into account the specific features of the European marine environments and settings, and capitalised on the expertise of the European oceanographic community within the MAST framework.

The main objective of the OMEX project was to quantify exchange processes at the ocean margin as a basis for developing global models to predict the impact of environmental changes on the oceanic system and, more specifically, on the coastal zone. Given the complexity of the processes occurring along the ocean margin, efforts have been made to provide data concerning the local factors affecting horizontal and vertical transport of material in relation to general circulation. Emphasis was given to evaluating the role of filaments and eddies in the exchange between coastal zones and the open ocean.

The central focus of this work was directed at understanding of the various components of the carbon cycle and associated elements (especially, nutrients and oligo-elements). Ecological models have been developed to assess the population dynamics in relation to food supply. In particular, the mechanism of nutrient transfer from deep water to surface water, occurring at

the northern margin of the Gulf of Biscay and at the Iberian Margin, and the resulting enhanced productivity in these areas has been carefully investigated.

The physical, chemical, biological and sedimentological aspects of the use or burial of carbon (organic and inorganic) have been investigated by examining the vertical distribution of dissolved and particulate matter. The transport and rate of accumulation of sediments have been determined with particular consideration for the role of the nepheloid layer. All this information was integrated to quantify the fluxes across the ocean margin, thereby providing fundamental data for the evaluation of the budgets of carbon, nutrients and trace elements between the continents, the coastal zone and the open ocean.

Parameters

Parameter : AADYAA01 (TIME)
Description : Day number
Method : Computation
Units : Days (1760/01/01 = day 0)

Parameter : AAFDZZ01 (TIME)
Description : Day fraction (GMT)
Method : Computation
Units : Days

Parameter : HEADCM01 (NAV)
Description : Platform Heading (Orientation)
Method : measured by compass
Units : Degrees True

Parameter : LCDAAP01 (CURR)
Description : Current direction (ADCP bin 01)
Method : Moored acoustic doppler current meter
Units : Degrees True

Parameter : LCDAEL01 (CURR)
Description : Current direction (Eulerian method)
Method : In-situ current measurement
Units : Degrees True

Parameter : LCEWEL01 (CURR)
Description : E-W current velocity (Eulerian method)
Method : In-situ current measurement
Units : cms/sec

Parameter : LCNSEL01 (CURR)
Description : N-S current velocity (Eulerian method)
Method : In-situ current measurement
Units : cms/sec

Parameter : LCSAAP01 (CURR)
Description : Current speed (ADCP bin 01)
Method : Moored acoustic doppler current meter
Units : cms/sec

Parameter : LCSAEL01 (CURR)
Description : Current speed (Eulerian method)
Method : In-situ current measurement
Units : cms/sec

Parameter : LCSAEL02 (CURR)
Description : Current speed (Eulerian method) (Channel 2)
Method : In-situ current measurement
Units : cms/sec

Parameter : LCSAEL03 (CURR)
Description : Current speed (Eulerian method) (Channel 3)
Method : In-situ current measurement
Units : cms/sec

Parameter : LCSAEL04 (CURR)
Description : Current speed (Eulerian method) (Channel 4)
Method : In-situ current measurement
Units : cms/sec

Parameter : LCVSAC01 (CURR)
Description : Vertical current velocity (+ve up)
Method : Acoustic current meter
Units : cms/sec

Parameter : PRES01 (HYDR)
Description : Sea pressure (fixed)
Method : Fixed pressure sensor (e.g. SFPG)
Units : Decibars

Parameter : PSALPR01 (HYDR)
Description : Practical salinity (unspecified probe type)
Method : Unspecified conductivity probe
Units : Practical Salinity Units

Parameter : PTCHEI01 (NAV)
Description : Pitch Angle
Method : Electromechanical Inclinator
Units : Degrees

Parameter : ROLLEI01 (NAV)
Description : Roll Angle
Method : Electromechanical Inclinator
Units : Degrees

Parameter : TEMPPR01 (HYDR)
Description : Sea temperature (unspecified)
Method : Unspecified temperature probe
Units : Degrees Centigrade

Parameter : TEMPTC01 (HYDR)
Description : Sea temperature (thermistor chain)
Method : In-situ thermistor
Units : Degrees Centigrade

Parameter : TSEDBS01 (SPM)
Description : Total spm (OBS)
Method : Optical backscatter sensor
Units : Milligrams per litre

Parameter : TURBPR01 (SPM)
Description : OBS turbidity
Method : In-situ optical backscatter nephelometer calibrated against
formazin
Units : Standard Turbidity Units

Parameter : TURBPR02 (SPM)
Description : OBS turbidity (sensor 2)
Method : In-situ optical backscatter nephelometer calibrated against
formazin
Units : Standard Turbidity Units

Flags

The following single character qualifying flags may be associated with one or more individual parameters within a data cycle:

Flag	Description
	Unqualified
<	Below detection limit
>	In excess of quoted value
B	Beginning of CTD Down/Up Cast
D	Thermometric depth
E	End of CTD Down/Up Cast
K	Uncertain/suspect value
L	Improbable value - originator's quality control
M	Improbable value - BODC quality control
N	Null value
O	Improbable value - user quality control
P	Trace/calm
Q	Indeterminate
R	Replacement value
S	Estimated value
T	Interpolated value
U	Uncalibrated
W	Control value
X	Excessive difference