

Moored Instrument Data Documentation

Oceanographic measurements are rarely taken as isolated spot readings. Most oceanographic instrument systems take simultaneous measurements of a number of different parameters and the same set of measurements is taken repeatedly at specific intervals in space and/or time. The data taken during one repetition of the basic measuring sequence is usually called a datacycle and the repetition of this cycle builds up into what is collectively called a data series. The composition of a datacycle depends not only on the manner in which the data have been collected but also on the manner in which they have been subsequently processed. In most cases the length of a series is set naturally by the period between the deployment and recovery of the instrument package. However, where the data are collected over a long period at a fixed location, it is often convenient to split the data into series on the basis of date (e.g. treating data for each year as a separate series); or whenever the instrumentation or methods of measurement change; or maybe where there is a significant break in the data measurement programme.

The BODC data base is built as a collection of data series and was designed to reflect the manner in which the data were originally collected and processed. It is a generalised system capable of accommodating a full range of different types of oceanographic data irrespective of the particular parameters measured. A description of the parameters included within the datacycles of a given series is stored with the data. Each series has associated with it a series header containing information common to the series as a whole. The layout of the header is independent of the type of data and includes such information as: the reference no. assigned to the series by BODC; the originator's identifiers for the series; date/time at the start and end of the series; information on the geographic latitude, longitude and depth of the instrument; depth of the sea floor if the instrument is at a fixed location; the nominal interval between datacycles etc. Also included are coded entries to identify the originating laboratory, the type of data, the type of instrument and instrument mounting, the position fixing uncertainty and the depth datum.

Also stored with the data are plain language narrative records documenting the circumstances under which the data were collected, including information on the measuring and processing procedures, the instrumentation and its calibration and performance; the type of mooring; the quality of the data; any problems encountered with the data etc. The narrative records are grouped into what are called documents and each document is given a unique reference number. On the BODC database each series has associated with it a list of document reference numbers addressing the plain language documentation relevant to that series. A given document may contain

information which is either specific to a single series or is generally applicable to a number of series.

There are four types of document:

- a) Warning documents: these are to warn the user that fundamental errors/problems have been found in the data and that they should be used with extreme caution.
- b) Caution documents: intended to alert the user that some problems have been noted with the data - these may not invalidate use of the data but the user should take them into account.
- c) Basic documents: simple units of plain language text which, when concatenated together, provide the series documentation.
- d) Headed documents: longer documents with detailed information on standard procedures or instruments - the first line of these documents contains a title.

Data documentation is compiled on the basis of 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 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 data base, 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.

Documentation Index

Remember that the series reference corresponds to the filename containing the data. Click the appropriate series reference to go to the document.

Series	Data	Latitude	Longitude	Start Date	Water	Sensor
Ref.	Type	deg min	deg min	yyyy/mm/dd	Depth m	Depth m
319389	LA	49 17.2 N	012 49.2 W	1993/06/27	1445.0	1070.0
319390	LA	49 17.2 N	012 49.2 W	1993/06/27	1445.0	620.0
319408	LA	49 05.7 N	013 25.7 W	1993/06/26	3651.0	1490.0
319421	LA	49 05.7 N	013 25.7 W	1993/06/26	3651.0	3280.0
319433	LA	49 05.7 N	013 25.7 W	1993/06/26	3651.0	580.0
442928	LA	49 11.5 N	012 48.0 W	1994/09/16	1418.0	1049.0
442941	LA	49 11.5 N	012 48.0 W	1994/09/16	1418.0	591.0
442953	LA	49 05.3 N	013 23.4 W	1994/09/15	3670.0	1509.0
442965	LA	49 05.3 N	013 23.4 W	1994/09/15	3670.0	3304.0
442977	LA	49 05.3 N	013 23.4 W	1994/09/15	3670.0	600.0
443981	MF	47 33.1 N	008 33.2 W	1993/11/10	2100.0	1960.0
443993	MF	47 33.1 N	008 33.2 W	1993/11/04	2100.0	2099.0
444007	MF	47 33.1 N	008 33.2 W	1993/11/04	2100.0	2099.0
444019	MF	47 28.0 N	008 31.2 W	1994/04/23	2100.0	1970.0
444020	MF	47 28.0 N	008 31.2 W	1994/04/23	2100.0	1960.0
444032	MF	47 28.0 N	008 31.2 W	1994/04/23	2100.0	2099.0
444044	LA	49 06.5 N	012 10.8 W	1994/01/22	996.0	196.0
444056	LA	49 09.0 N	010 30.8 W	1995/06/14	142.0	100.0
444068	LA	49 06.5 N	012 10.8 W	1994/01/22	996.0	496.0
444081	LA	49 06.5 N	012 10.8 W	1994/01/22	996.0	946.0
444093	LA	49 09.0 N	010 30.8 W	1995/06/14	142.0	30.0
444100	LA	49 08.8 N	010 31.2 W	1995/09/03	142.0	30.0
444112	LA	38 24.5 N	009 45.8 W	1994/01/04	2000.0	200.0
444124	LA	38 13.0 N	009 47.3 W	1994/01/04	2000.0	1200.0
444136	LA	38 24.5 N	009 45.8 W	1994/01/04	2000.0	700.0
444148	LA	38 24.5 N	009 45.8 W	1994/01/04	2000.0	1200.0
444161	LA	54 33.2 N	010 58.1 W	1994/04/13	668.0	628.0
444173	LA	55 02.5 N	010 11.6 W	1994/04/13	655.0	615.0
444308	LA	49 11.2 N	012 49.2 W	1994/04/18	1456.0	1070.0
444321	LA	49 11.2 N	012 49.2 W	1994/04/18	1456.0	620.0
444333	LA	49 05.7 N	013 24.6 W	1994/01/08	3673.0	1490.0
444345	LA	49 05.7 N	013 24.6 W	1994/01/08	3673.0	3280.0
444357	LA	49 05.7 N	013 24.6 W	1994/01/08	3673.0	580.0
444369	LA	49 11.3 N	012 47.7 W	1994/01/11	1396.0	1070.0
444370	LA	49 11.3 N	012 47.7 W	1994/01/11	1396.0	620.0
444382	MF	49 11.3 N	012 44.0 W	1993/06/24	1296.0	1294.0
444394	MF	49 11.2 N	012 49.3 W	1994/06/30	1453.0	1451.0
444401	MF	49 23.6 N	011 40.2 W	1994/01/20	879.8	877.8

Data Types

LA = Currents -subsurface Eulerian

MF = Multiple data types -fixed platform

INFORMATION FOR BODC SERIES REF. NO. 319389

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Moored Current Meter Inventory Number : 9621

Start Time : 27 Jun 1993 1227 GMT Latitude : 49deg 17.2min N
End Time : 05 Jan 1994 1530 GMT Longitude : 012deg 49.2min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 1070.00m
Sea Floor Depth : 1445.00m

Positional Uncertainty : 5.0 to 10.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX2/1/B

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The following additional documents apply to this series

Current Meter Data Screening carried out by BODC

Data Activity Document : 68354

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 319390

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Moored Current Meter Inventory Number : 9622

Start Time : 27 Jun 1993 1149 GMT Latitude : 49deg 17.2min N
End Time : 05 Jan 1994 1250 GMT Longitude : 012deg 49.2min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 620.00m
Sea Floor Depth : 1445.00m

Positional Uncertainty : 5.0 to 10.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX2/1/T

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The following additional documents apply to this series

Current Meter Data Screening carried out by BODC

Data Activity Document : 68354

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 319408

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Moored Current Meter Inventory Number : 9623

Start Time : 26 Jun 1993 1431 GMT Latitude : 49deg 05.7min N
End Time : 07 Jan 1994 0927 GMT Longitude : 013deg 25.7min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 1490.00m
Sea Floor Depth : 3651.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX3/1/M

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68368

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 319421

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Moored Current Meter Inventory Number : 9624

Start Time : 26 Jun 1993 1626 GMT Latitude : 49deg 05.7min N
End Time : 07 Jan 1994 1027 GMT Longitude : 013deg 25.7min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 3280.00m
Sea Floor Depth : 3651.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX3/1/B

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68368

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 319433

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Moored Current Meter Inventory Number : 9625

Start Time : 26 Jun 1993 1443 GMT Latitude : 49deg 05.7min N
End Time : 07 Jan 1994 0939 GMT Longitude : 013deg 25.7min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 580.00m
Sea Floor Depth : 3651.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX3/1/T

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68368

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 442928

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Moored Current Meter Inventory Number : 9416

Start Time : 16 Sep 1994 1314 GMT Latitude : 49deg 11.5min N
End Time : 30 Sep 1995 1316 GMT Longitude : 012deg 48.0min W

Nominal Cycle Interval : 7200.0 secs Sensor Depth : 1049.00m
Sea Floor Depth : 1418.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMEX2.1070m

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68105

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 442941

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Moored Current Meter Inventory Number : 9415

Start Time : 16 Sep 1994 1310 GMT Latitude : 49deg 11.5min N
End Time : 30 Sep 1995 1112 GMT Longitude : 012deg 48.0min W

Nominal Cycle Interval : 7200.0 secs Sensor Depth : 591.00m
Sea Floor Depth : 1418.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMEX2.620m

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68105

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 442953

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Moored Current Meter Inventory Number : 9418

Start Time : 15 Sep 1994 0930 GMT Latitude : 49deg 05.3min N
End Time : 30 Sep 1995 1331 GMT Longitude : 013deg 23.4min W

Nominal Cycle Interval : 7200.0 secs Sensor Depth : 1509.00m
Sea Floor Depth : 3670.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMEX3.1460m

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

1) Current speed was constant at 1.1 cm/s from 15/01/1995 onwards.

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68119

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 442965

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Moored Current Meter Inventory Number : 9419

Start Time : 15 Sep 1994 1435 GMT Latitude : 49deg 05.3min N
End Time : 24 Oct 1994 2005 GMT Longitude : 013deg 23.4min W

Nominal Cycle Interval : 600.0 secs Sensor Depth : 3304.00m
Sea Floor Depth : 3670.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMEX3.3260m

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

- 1) **All data (current speed and direction, temperature and salinity corrupt between 28/09/1994 20:00 and 12/10/1994 06:00.**
- 2) **Salinity noisy (noise amplitude 0.2-0.3 PSU).**

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68119

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 442977

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Moored Current Meter Inventory Number : 9417

Start Time : 15 Sep 1994 1008 GMT Latitude : 49deg 05.3min N
End Time : 30 Sep 1995 1205 GMT Longitude : 013deg 23.4min W

Nominal Cycle Interval : 7200.0 secs Sensor Depth : 600.00m
Sea Floor Depth : 3670.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMEX3.580m

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68119

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 443981

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Multiple data types -unspecified (MM) Number : 9422

Start Time : 10 Nov 1993 0000 GMT Latitude : 47deg 33.1min N
End Time : 04 Aug 1994 2300 GMT Longitude : 008deg 33.2min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 1960.00m
Sea Floor Depth : 2100.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Approximate
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Multiple data types -fixed platform
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : IFREMER, Brest, France
Originator's Identifier : omx1/0248/1l

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68170

Fixed Station Document : 68167

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 443993

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Multiple data types -unspecified (MM) Number : 9423

Start Time : 04 Nov 1993 0900 GMT Latitude : 47deg 33.1min N
End Time : 10 Aug 1994 0400 GMT Longitude : 008deg 33.2min W

Nominal Cycle Interval : 1800.0 secs Sensor Depth : 2099.00m
Sea Floor Depth : 2100.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Approximate
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Multiple data types -fixed platform
Instrument Type : Nephelometer
Instrument Mounting : Subsurface mooring
Originator Laboratory : IFREMER, Brest, France
Originator's Identifier : omx1/neph/1l

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68170

Fixed Station Document : 68167

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444007

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Multiple data types -unspecified (MM) Number : 9424

Start Time : 04 Nov 1993 0900 GMT Latitude : 47deg 33.1min N
End Time : 10 Aug 1994 0300 GMT Longitude : 008deg 33.2min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 2099.00m
Sea Floor Depth : 2100.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Approximate
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Multiple data types -fixed platform
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : IFREMER, Brest, France
Originator's Identifier : omx1/sls/2l

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

- 1) Rig OMEXI-1 MORS SLS-21 current meter (1 m above sea bed).
Although time series plots showed data to be of good quality,
current velocity scatter plots revealed an 8-fold rotational symmetry
pattern indicating an artefact in the data.**

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68170

Fixed Station Document : 68167

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444019

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Multiple data types -unspecified (MM) Number : 9425

Start Time : 23 Apr 1994 1800 GMT Latitude : 47deg 28.0min N
End Time : 09 Jun 1995 0500 GMT Longitude : 008deg 31.2min W

Nominal Cycle Interval : 3600.0 secs Minimum Depth : 1970.00m
Maximum Depth : 2060.00m Sea Floor Depth : 2100.00m

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

Project : OMEX

Data Category : Multiple data types -fixed platform
Instrument Type : Thermistor chain
Instrument Mounting : Subsurface mooring
Originator Laboratory : IFREMER, Brest, France
Originator's Identifier : omx2/1292/1l

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Additional information stored with the data:

The sensor heights above sea bed and corresponding data channels:

TEMPTC01 at 130 m	TEMPTC06 at 80 m
TEMPTC02 at 120 m	TEMPTC07 at 70 m
TEMPTC03 at 110 m	TEMPTC08 at 60 m
TEMPTC04 at 100 m	TEMPTC09 at 50 m
TEMPTC05 at 90 m	TEMPTC10 at 40 m

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68184

Fixed Station Document : 68167

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444020

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Multiple data types -unspecified (MM) Number : 9426

Start Time : 23 Apr 1994 1800 GMT Latitude : 47deg 28.0min N
End Time : 27 Dec 1994 2200 GMT Longitude : 008deg 31.2min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 1960.00m
Sea Floor Depth : 2100.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Approximate
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Multiple data types -fixed platform
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : IFREMER, Brest, France
Originator's Identifier : omx2/5734/3l

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68184

Fixed Station Document : 68167

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444032

=====

Multiple data types -unspecified (MM) Number : 9427

Start Time : 23 Apr 1994 1800 GMT Latitude : 47deg 28.0min N
End Time : 09 Jun 1995 0500 GMT Longitude : 008deg 31.2min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 2099.00m
Sea Floor Depth : 2100.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Approximate
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Multiple data types -fixed platform
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : IFREMER, Brest, France
Originator's Identifier : omx2/mc/2l

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68184

Fixed Station Document : 68167

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444044

=====

Moored Current Meter Inventory Number : 9592

Start Time : 22 Jan 1994 2000 GMT Latitude : 49deg 06.5min N
End Time : 08 Jun 1995 0800 GMT Longitude : 012deg 10.8min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 196.00m
Sea Floor Depth : 996.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Plymouth Marine Laboratory
Originator's Identifier : 11212c.154

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68245

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444056

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Moored Current Meter Inventory Number : 9589

Start Time : 14 Jun 1995 1430 GMT Latitude : 49deg 09.0min N
End Time : 03 Sep 1995 0730 GMT Longitude : 010deg 30.8min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 100.00m
Sea Floor Depth : 142.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Plymouth Marine Laboratory
Originator's Identifier : 11212c.150

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68228

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444068

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Moored Current Meter Inventory Number : 9593

Start Time : 22 Jan 1994 2000 GMT Latitude : 49deg 06.5min N
End Time : 08 Jun 1995 0800 GMT Longitude : 012deg 10.8min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 496.00m
Sea Floor Depth : 996.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Plymouth Marine Laboratory
Originator's Identifier : 11214c.154

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68245

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444081

=====

Moored Current Meter Inventory Number : 9594

Start Time : 22 Jan 1994 2000 GMT Latitude : 49deg 06.5min N
End Time : 08 Jun 1995 0800 GMT Longitude : 012deg 10.8min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 946.00m
Sea Floor Depth : 996.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Plymouth Marine Laboratory
Originator's Identifier : 11215c.154

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The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68245

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444093

=====

Moored Current Meter Inventory Number : 9590

Start Time : 14 Jun 1995 1430 GMT Latitude : 49deg 09.0min N
End Time : 03 Sep 1995 0730 GMT Longitude : 010deg 30.8min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 30.00m
Sea Floor Depth : 142.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Plymouth Marine Laboratory
Originator's Identifier : 112161c.150

=====

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

- 1) **On 20 Aug 1995 the pressure channel shows a significant jump from 40 to about 60 db. The same jump was not recorded by the second instrument on the rig (#11212).**

Temperature sensor shows saturation at the value of 17.1430 °C.

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68228

Project Document : 68089

=====

INFORMATION FOR BODC SERIES REF. NO. 444100

=====

Moored Current Meter Inventory Number : 9591

Start Time : 03 Sep 1995 1730 GMT Latitude : 49deg 08.8min N
End Time : 20 Oct 1995 0530 GMT Longitude : 010deg 31.2min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 30.00m
Sea Floor Depth : 142.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Plymouth Marine Laboratory
Originator's Identifier : 112162c.150

=====

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

1) Unusually noiseless pressure signal in the period 16-22 Sep 1995.

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68231

Project Document : 68089

=====

INFORMATION FOR BODC SERIES REF. NO. 444112

=====

Moored Current Meter Inventory Number : 9616

Start Time : 04 Jan 1994 2000 GMT Latitude : 38deg 24.5min N
End Time : 16 Dec 1995 1800 GMT Longitude : 009deg 45.8min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 200.00m
Sea Floor Depth : 2000.00m

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

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Plymouth Marine Laboratory
Originator's Identifier : cd83.11213

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68198

Project Document : 68089

=====

INFORMATION FOR BODC SERIES REF. NO. 444124

=====

Moored Current Meter Inventory Number : 9615

Start Time : 04 Jan 1994 1400 GMT Latitude : 38deg 13.0min N
End Time : 16 Dec 1995 1100 GMT Longitude : 009deg 47.3min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 1200.00m
Sea Floor Depth : 2000.00m

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

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Plymouth Marine Laboratory
Originator's Identifier : cd83.11217

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68122

Project Document : 68089

=====

INFORMATION FOR BODC SERIES REF. NO. 444136

=====

Moored Current Meter Inventory Number : 9617

Start Time : 04 Jan 1994 2000 GMT Latitude : 38deg 24.5min N
End Time : 16 Dec 1995 1800 GMT Longitude : 009deg 45.8min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 700.00m
Sea Floor Depth : 2000.00m

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

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Plymouth Marine Laboratory
Originator's Identifier : cd83.11218

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68198

Project Document : 68089

=====

INFORMATION FOR BODC SERIES REF. NO. 444148

=====

Moored Current Meter Inventory Number : 9618

Start Time : 04 Jan 1994 2000 GMT Latitude : 38deg 24.5min N
End Time : 16 Dec 1995 1800 GMT Longitude : 009deg 45.8min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 1200.00m
Sea Floor Depth : 2000.00m

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

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : Plymouth Marine Laboratory
Originator's Identifier : cd83.11219

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68198

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444161

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Moored Current Meter Inventory Number : 9619

Start Time : 13 Apr 1994 0700 GMT Latitude : 54deg 33.2min N
End Time : 14 Oct 1994 0600 GMT Longitude : 010deg 58.1min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 628.00m
Sea Floor Depth : 668.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Depth Datum : Unspecified

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University College Galway, Ireland
Originator's Identifier : omexA.cmd

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68214

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444173

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Moored Current Meter Inventory Number : 9620

Start Time : 13 Apr 1994 1700 GMT Latitude : 55deg 02.5min N
End Time : 04 Dec 1994 2200 GMT Longitude : 010deg 11.6min W

Nominal Cycle Interval : 3600.0 secs Sensor Depth : 615.00m
Sea Floor Depth : 655.00m

Positional Uncertainty : 0.1 to 0.5 n.miles
Depth Datum : Unspecified

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University College Galway, Ireland
Originator's Identifier : omexB.cmd

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68259

Project Document : 68089

=====

INFORMATION FOR BODC SERIES REF. NO. 444308

=====

Moored Current Meter Inventory Number : 9626

Start Time : 18 Apr 1994 1404 GMT Latitude : 49deg 11.2min N
End Time : 16 Sep 1994 0905 GMT Longitude : 012deg 49.2min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 1070.00m
Sea Floor Depth : 1456.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX2B/2/B

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68371

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444321

=====

Moored Current Meter Inventory Number : 9627

Start Time : 18 Apr 1994 1356 GMT Latitude : 49deg 11.2min N
End Time : 16 Sep 1994 0957 GMT Longitude : 012deg 49.2min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 620.00m
Sea Floor Depth : 1456.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX2B/2/T

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68371

Fixed Station Document : 68092

Project Document : 68089

=====

INFORMATION FOR BODC SERIES REF. NO. 444333

=====

Moored Current Meter Inventory Number : 9628

Start Time : 08 Jan 1994 0739 GMT Latitude : 49deg 05.7min N
End Time : 14 Sep 1994 1933 GMT Longitude : 013deg 24.6min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 1490.00m
Sea Floor Depth : 3673.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX3B/M

=====

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

- 1) Transmissometer malfunction. All data appear to be of the same value (0.4170).**

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68385

Fixed Station Document : 68092

Project Document : 68089

=====

INFORMATION FOR BODC SERIES REF. NO. 444345

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Moored Current Meter Inventory Number : 9629

Start Time : 08 Jan 1994 0734 GMT Latitude : 49deg 05.7min N
End Time : 14 Sep 1994 1935 GMT Longitude : 013deg 24.6min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 3280.00m
Sea Floor Depth : 3673.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX3B/B

=====

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

- 1) Salinity data are noisy and in places exhibit a step function of approximate amplitude 0.5 PSU.**

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68385

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444357

=====

Moored Current Meter Inventory Number : 9630

Start Time : 08 Jan 1994 0737 GMT Latitude : 49deg 05.7min N
End Time : 14 Sep 1994 2032 GMT Longitude : 013deg 24.6min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 580.00m
Sea Floor Depth : 3673.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX3B/T

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68385

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444369

=====

Moored Current Meter Inventory Number : 9631

Start Time : 11 Jan 1994 0841 GMT Latitude : 49deg 11.3min N
End Time : 15 Apr 1994 0742 GMT Longitude : 012deg 47.7min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 1070.00m
Sea Floor Depth : 1396.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX2B/1/B

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68432

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444370

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Moored Current Meter Inventory Number : 9632

Start Time : 11 Jan 1994 0855 GMT Latitude : 49deg 11.3min N
End Time : 15 Apr 1994 1056 GMT Longitude : 012deg 47.7min W

Nominal Cycle Interval : 60.0 minutes Sensor Depth : 620.00m
Sea Floor Depth : 1396.00m

Positional Uncertainty : 1.0 to 5.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference

Project : OMEX

Data Category : Currents -subsurface Eulerian
Instrument Type : Paddle wheel current meter
Instrument Mounting : Subsurface mooring
Originator Laboratory : University of Kiel, Germany
Originator's Identifier : OMX2B/1/T

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68432

Fixed Station Document : 68092

Project Document : 68089

=====

INFORMATION FOR BODC SERIES REF. NO. 444382

=====

Moored Current Meter Inventory Number : 9633

Start Time : 24 Jun 1993 2029 GMT Latitude : 49deg 11.3min N
End Time : 18 Aug 1993 0345 GMT Longitude : 012deg 44.0min W

Nominal Cycle Interval : 15.0 minutes Minimum Depth : 1294.00m
Maximum Depth : 1295.75m Sea Floor Depth : 1296.00m

Positional Uncertainty : 5.0 to 10.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference
Disposition of Sensors : Scattered at fixed depths

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 : BOBO/OMEX93

=====

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

- 1) Current velocity scatter plots revealed data to be of suspicious quality and they should therefore be used with caution.**

=====

Additional information stored with the data:

The sensor heights above sea bed and corresponding data channels:

ATTNMR02 at 2.00 m (SN178-D)
ATTNMR01 at 1.00 m (SN118-D)
LCDAEL04 at 1.00 m
LCSAEL04 at 1.00 m
LCVSAC04 at 1.00 m
LCDAEL03 at 0.75 m
LCSAEL03 at 0.75 m
LCVSAC03 at 0.75 m
LCDAEL02 at 0.50 m
LCSAEL02 at 0.50 m
LCVSAC02 at 0.50 m

LCDAEL01 at 0.25 m
LCSAEL01 at 0.25 m
LCVSAC01 at 0.25 m

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68446

Fixed Station Document : 68092

Project Document : 68089

=====

INFORMATION FOR BODC SERIES REF. NO. 444394

=====

Moored Current Meter Inventory Number : 9634

Start Time : 30 Jun 1994 2215 GMT Latitude : 49deg 11.2min N
End Time : 12 Nov 1994 1515 GMT Longitude : 012deg 49.3min W

Nominal Cycle Interval : 20.0 minutes Minimum Depth : 1451.00m
Maximum Depth : 1452.75m Sea Floor Depth : 1453.00m

Positional Uncertainty : 5.0 to 10.0 n.miles
Sea Floor Datum : Instantaneous
Sensor Depth Datum : Sea floor reference
Disposition of Sensors : Scattered at fixed depths

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 : BOBO/OMEX94

=====

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

- 1) Current velocity scatter plots revealed data to be of suspicious quality and they should therefore be used with caution.**

=====

Additional information stored with the data:

The sensor heights above sea bed and corresponding data channels:

ATTNMR02 at 2.00 m (SN178-D)
ATTNMR01 at 1.00 m (SN118-D)
LCDAEL04 at 1.00 m
LCSAEL04 at 1.00 m
LCVSAC04 at 1.00 m
LCDAEL03 at 0.75 m
LCSAEL03 at 0.75 m
LCVSAC03 at 0.75 m
LCDAEL02 at 0.50 m
LCSAEL02 at 0.50 m
LCVSAC02 at 0.50 m

LCDAEL01 at 0.25 m
LCSAEL01 at 0.25 m
LCVSAC01 at 0.25 m

=====

The following additional documents apply to this series:

Current Meter Data Screening carried out by BODC

Data Activity Document : 68463

Fixed Station Document : 68092

Project Document : 68089

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INFORMATION FOR BODC SERIES REF. NO. 444401

=====

Moored Current Meter Inventory Number : 9635

Start Time : 20 Jan 1994 2316 GMT Latitude : 49deg 23.6min N
End Time : 31 Jan 1994 0854 GMT Longitude : 011deg 40.2min W

Nominal Cycle Interval : 60.0 secs Minimum Depth : 877.85m
Maximum Depth : 879.58m Sea Floor Depth : 879.80m

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 : 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 : stablecd84

=====

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

- 1) Current speed derived from R2 Savonius rotor (0.402 m.a.b.) exhibited somewhat lower values when compared to other three sensors. This behaviour was noticeable from the beginning until 19:30 on 22 Jan, after which time the sensor showed no offset.**

=====

Additional information stored with the data:

Data channels and the related instrument heights above sea bed:

PRES01 1.950 m
HEADCM01 1.350 m
PTCHEI01 1.350 m
ROLLEI01 1.350 m
TEMPPR01 1.350 m
LCDAEL01 0.907 m
LCSAEL04 0.762 m
LCSAEL03 0.582 m

LCSAEL02 0.402 m
LCSAEL01 0.222 m

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).

The following additional documents apply to this series:

Data Activity Document : 68586

Project Document : 68089

Current Meter Data Screening carried out by BODC

Applies to All Current Meter Series

BODC screen both the series header qualifying information and the parameter values in the data cycles themselves. Header information is inspected for:

- Irregularities such as infeasible values
- 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; originator's comments on meter/mooring performance, data quality and parameters measured and the parameters actually present in the data cycles.

Documents are written by BODC highlighting irregularities which 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 which 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's making are not introduced.

BODC DATA ACTIVITY DOCUMENT NO. 68105

Applies to BODC Series Ref. Nos.: 442928, 442941

Rig OMEX2C

Site:	OMEX2
Position:	49.19117 deg N, 12.80000 deg W
Water depth:	1418 m
Deployed:	16 Sep 1994 from Meteor (M30_1)
Recovered:	29 Sep 1995 from Discovery (DI217)

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

850 m	Sediment trap
827 m	Aanderaa current meter (#11075)
393 m	Sediment trap
369 m	Aanderaa current meter (#11041) + transmissometer

BODC DATA ACTIVITY DOCUMENT NO. 68119

Applies to BODC Series Ref. Nos.: 442953, 442965, 442977

Rig OMEX3C

Site:	OMEX3
Position:	49.08833 deg N, 13.39000 deg W
Water depth:	3670 m
Deployed:	15 Sep 1994 from Meteor (M30_1)
Recovered:	30 Sep 1995 from Discovery (DI217)

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

3094 m	Sediment trap
3070 m	Aanderaa current meter (#11039)
2185 m	Sediment trap
2161 m	Aanderaa current meter (#11038) + transmissometer
390 m	Sediment trap
366 m	Aanderaa current meter (#11040) + transmissometer

BODC DATA ACTIVITY DOCUMENT NO. 68122

Applies to BODC Series Ref. Nos.: 444124

Rig 146

Position: 38.2167 deg N, 9.7884 deg W
Water depth: 2000 m

Deployed: 04 Jan 1994 from RRS Charles Darwin (CD83)
Recovered: 16 Dec 1995 (vessel unknown)

The instruments were anchored by 1000 kg of chain and kept erect by a 48" diameter sub-surface buoy.

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

1800 m Aanderaa current meter (#9415); no data received
1600 m Thermistor chain (Aanderaa 2117); no data received
1300 m EG&G current meter (#627); no data received
800 m Aanderaa current meter (#11217)

BODC DATA ACTIVITY DOCUMENT NO. 68170

Applies to BODC Series Ref. Nos.: 443981, 443993, 444007

Rig OMEXI-1

Site: MERIADZEK1
Position: 47.55133 deg N, 8.55278 deg W
Water depth: 2100 m

Deployed: 04 Nov 1993 from Alcyon (MINT932)
Recovered: 25 Aug 1994 from ?????? (no details available)

The mooring was based on the lander "M.A.P." (Module Autonome Pluridisciplinaire). The lander was equipped with one MORS SLS-21 current meter, a nephelometer, a camera-flash system and a sediment trap. Above it, along the mooring line, were two current meters and a thermistor chain.

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

140 m Aanderaa current meter (#10248)
130 m Thermistor chain (no data received)
15 m Aanderaa current meter (no data received)
1 m Nephelometer (IFREMER)
1 m MORS current meter (#SLS-21)
1 m Sediment trap

BODC DATA ACTIVITY DOCUMENT NO. 68184

Applies to BODC Series Ref. Nos.: 444019, 444020, 444032

Rig OMEXI-2

Site:	MERIADZEK2
Position:	47.46667 deg N, 8.52033 deg W
Water depth:	2100 m
Deployed:	10 Apr 1994 from Le Nadir (NADIR1)
Recovered:	10 Jun 1995 from ???????? (no details available)

The mooring was based on the lander "M.A.P." (Module Autonome Pluridisciplinaire). The lander was equipped with one MORS SLS-21 current meter, a nephelometer, a camera-flash system and a sediment trap. Above it, along the mooring line, was one current meter and a thermistor chain

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

- 140 m Aanderaa current meter (#55734)
- 130 m Thermistor chain (#TR1292)
- 1 m Nephelometer (no data received)
- 1 m MORS current meter (#MC815)
- 1 m Sediment trap

BODC DATA ACTIVITY DOCUMENT NO. 68198

Applies to BODC Series Ref. Nos.: 444112, 444136, 444148

Rig 147

Position: 38.4082 deg N, 9.7634 deg W
Water depth: 2000 m

Deployed: 04 Jan 1994 from RRS Charles Darwin (CD83)
Recovered: 16 Dec 1995 (vessel unknown)

The instruments were anchored by 1000 kg of chain and kept erect by a 48" diameter sub-surface buoy.

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

1800 m Aanderaa current meter (#11213)
1300 m Aanderaa current meter (#11218)
800 m Aanderaa current meter (#11219)

BODC DATA ACTIVITY DOCUMENT NO. 68214

Applies to BODC Series Ref. Nos.: 444161

Rig OMEX_A

Position: 54.5533 deg N, 10.968 deg W

Water depth: 668 m

Deployed: 13 Apr 1994 from fishing trawler Cappal Ban (CAPB1)

Recovered: 14 Oct 1994 (vessel unknown)

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

~390 m Aanderaa current meter (no data received)

~240 m Aanderaa current meter (no data received)

40 m Aanderaa current meter

BODC DATA ACTIVITY DOCUMENT NO. 68228

Applies to BODC Series Ref. Nos.: 444056, 444093

Rig GS150

Position: 49.15067 deg N, 10.51350 deg W

Water depth: 142 m

Deployed: 14 Jun 1995 from RRS Charles Darwin (CD94)

Recovered: 03 Sep 1995 from RRS Discovery (DI216)

The instruments were anchored by 1000 kg of chain and kept erect by a 41" diameter sub-surface buoy.

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

112 m Aanderaa current meter (#11216)

42 m Aanderaa current meter (#11212)

BODC DATA ACTIVITY DOCUMENT NO. 68231

Applies to BODC Series Ref. Nos.: 444100

Rig GS150

Position: 49.14640 deg N, 10.51998 deg W

Water depth: 142 m

Deployed: 03 Sep 1995 from RRS Discovery (DI216)

Recovered: 20 Oct 1995 from ??? (trawled by fishing boat?)

The instruments were anchored by 1000 kg of chain and kept erect by a 41" diameter sub-surface buoy.

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

112 m Aanderaa current meter (#11216)

BODC DATA ACTIVITY DOCUMENT NO. 68245

Applies to BODC Series Ref. Nos.: 444044, 444068, 444081

Rig GS154

Position: 49.10791 deg N, 12.18079 deg W

Water depth: 996 m

Deployed: 21 Jan 1994 from RRS Charles Darwin (CD84)

Recovered: 08 Jun 1995 from RRS Charles Darwin (CD94)

The instruments were anchored by 1000 kg of chain and kept erect by a 41" diameter sub-surface buoy.

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

800 m Aanderaa current meter (#11212)

500 m Aanderaa current meter (#11214)

50 m Aanderaa current meter (#11215)

BODC DATA ACTIVITY DOCUMENT NO. 68259

Applies to BODC Series Ref. Nos.: 444173

Rig OMEX_B

Position: 55.0415 deg N, 10.1932 deg W

Water depth: 655 m

Deployed: 13 Apr 1994 from fishing trawler Cappal Ban (CAPB1)

Recovered: 04 Dec 1994 (vessel unknown)

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

~390 m Aanderaa current meter (no data received)

~240 m Aanderaa current meter (no data received)

40 m Aanderaa current meter

BODC DATA ACTIVITY DOCUMENT NO. 68354

Applies to BODC Series Ref. Nos.: 319389, 319390

Rig OMEX2A

Site: OMEX2
Position: 49.2872 deg N, 12.8193 deg W
Water depth: 1445 m

Deployed: 27 Jun 1993 from Poseidon (PS200_7)
Recovered: 05 Jan 1994 from Meteor (M27_1)

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

883 m Sediment trap
825 m Aanderaa current meter (#11075)
399 m Sediment trap
375 m Aanderaa current meter (#11041) + transmissometer

BODC DATA ACTIVITY DOCUMENT NO. 68368

Applies to BODC Series Ref. Nos.: 319408, 319421, 319433

Rig OMEX3A

Site: OMEX3
Position: 49.0942 deg N, 13.4288 deg W
Water depth: 3651 m

Deployed: 26 Jun 1993 from Poseidon (PS200_7)
Recovered: 07 Jan 1994 from Meteor (M27_1)

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

3095 m Sediment trap
3071 m Aanderaa current meter (#11039)
2185 m Sediment trap
2161 m Aanderaa current meter (#11038) + transmissometer
395 m Sediment trap
371 m Aanderaa current meter (#11040) + transmissometer

BODC DATA ACTIVITY DOCUMENT NO. 68371

Applies to BODC Series Ref. Nos.: 444308, 444321

Rig OMEX2B/2

Site: OMEX2

Position: 49.1865 deg N, 12.8194 deg W

Water depth: 1456 m

Deployed: 18 Apr 1994 from RRS Charles Darwin (CD85)

Recovered: 16 Sep 1994 from Meteor (M30_1)

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

860 m Sediment trap

836 m Aanderaa current meter (#11075)

410 m Sediment trap

386 m Aanderaa current meter (#11041) + transmissometer

BODC DATA ACTIVITY DOCUMENT NO. 68385

Applies to BODC Series Ref. Nos.: 444333, 444345, 444357

Rig OMEX3B

Site:	OMEX3
Position:	49.0942 deg N, 13.4100 deg W
Water depth:	3673 m
Deployed:	08 Jan 1994 from Meteor (M27_1)
Recovered:	14 Sep 1994 from Meteor (M30_1)

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

3117 m	Sediment trap
3093 m	Aanderaa current meter (#11039)
2207 m	Sediment trap
2183 m	Aanderaa current meter (#11038) + transmissometer
417 m	Sediment trap
393 m	Aanderaa current meter (#11040) + transmissometer

BODC DATA ACTIVITY DOCUMENT NO. 68432

Applies to BODC Series Ref. Nos.: 444369, 444370

Rig OMEX2B/1

Site:	OMEX2
Position:	49.1883 deg N, 12.7950 deg W
Water depth:	1396 m
Deployed:	11 Jan 1994 from Meteor (M27_1)
Recovered:	15 Apr 1994 from RRS Charles Darwin (CD85)

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

800 m	Sediment trap
776 m	Aanderaa current meter (#11075)
350 m	Sediment trap
326 m	Aanderaa current meter (#11041) + transmissometer

BODC DATA ACTIVITY DOCUMENT NO. 68446

Applies to BODC Series Ref. Nos.: 444382

BOBO Lander Rig 457

Site: near OMEX2
Position: 49.1885 deg N, 12.7333 deg W
Water depth: 1296 m

Deployed: 24 Jun 1993 from Poseidon (PS200_7)
Recovered: 25 May 1994 from RRS Charles Darwin (CD86)

Lander BOBO (BOttom BOundary Layer Research) consists of 4 acoustic current meters, a central data storage and command logger, two 25 cm beam SeaTech 660 nm transmissometers, a conductivity/temperature logger (SeaCat CT probe) and two underwater cameras with flash unit.

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

- 2.00 m Transmissometer SN178-D
- 1.00 m Transmissometer SN118-D
- 1.00 m CT probe
- 1.00 m Current meter
- 0.75 m Current meter
- 0.50 m Current meter
- 0.25 m Current meter

BODC DATA ACTIVITY DOCUMENT NO. 68463

Applies to BODC Series Ref. Nos.: 444394

BOBO Lander Rig 10_BOBO

Site: near OMEX2
Position: 49.1873 deg N, 12.8218 deg W
Water depth: 1453 m

Deployed: 08 Jun 1994 from RRS Charles Darwin (CD86)
Recovered: 19 Sep 1995 from Pelagia (PLG95B)

Lander BOBO (BOttom BOundary Layer Research) consists of 4 acoustic current meters, a central data storage and command logger, two 25 cm beam 660 nm SeaTech transmissometers, a conductivity/temperature logger (SeaCat CT probe) and two underwater cameras with flash unit.

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

- 2.00 m Transmissometer SN178-D
- 1.00 m Transmissometer SN118-D
- 1.00 m CT probe
- 1.00 m Current meter
- 0.75 m Current meter
- 0.50 m Current meter
- 0.25 m Current meter

BODC DATA ACTIVITY DOCUMENT NO. 68586

Applies to BODC Series Ref. Nos.: 444401

OMEX STABLE2 Rig

Site:	on the OMEX transect, near OMEX1 site
Position:	49.3929 deg N, 11.6699 deg W
Water depth:	880 m

Deployed:	20 Jan 1994 from RRS Charles Darwin (CD84)
Recovered:	31 Jan 1994 from RRS Charles Darwin (CD84)

BODC FIXED STATION DOCUMENT NO. 68092

Applies to BODC Series Ref. Nos.: 319389, 319390, 319408, 319421,
319433, 442928, 442941, 442953,
442965, 442977, 444308, 444321,
444333, 444345, 444357, 444369,
444370, 444382, 444394

OMEX Moorings Sites OMEX2 and OMEX3

At these sites Aanderaa current meters with transmissometers and sediment traps were deployed, during the period Jun 1993 - Sep 1995.

BODC FIXED STATION DOCUMENT NO. 68167

Applies to BODC Series Ref. Nos.: 443981, 443993, 444007, 444019
444020, 444032

OMEX Moorings Sites Meriadzek1 and Meriadzek2

At these sites current meters, thermistor chains, nephelometers and sediment traps were deployed during the period Nov 1993 - Jun 1995.

BODC PROJECT DOCUMENT NO. 68089

This document applies to all series.

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 European ocean margins in order to quantify fluxes of energy and matter across this boundary.

The objective is to provide a more accurate picture of the biogeochemical interactions between the coastal zone and the open ocean. This information is essential for the development of predictive models required to evaluate the response of the shelf and slope area to global environmental changes.

The coastal area with its enhanced productivity and strong influence from continental input is an important source of dissolved and particulate matter for the open ocean. On the other hand, deep ocean waters, rich in nutrients and high in dissolved trace elements, are transferred across the shelf edge and help to sustain the high productivity of biota in the coastal zone and shelf seas. The quantification of fluxes across the ocean margins is a fundamental requirement for the evaluation of the budgets of carbon, nutrients and trace elements between the continents, the coastal zone and the open ocean.

Parameter Code Definitions

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

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

The parameters AADY/AAFD are usually supplied as date and time (GMT).

Parameter : ATTNMR01 (HYDR)
Description : Red light attenuation (25cm beam)
Method : 660nm 25cm transmissometer
Units : per metre

Parameter : ATTNMR02 (HYDR)
Description : Red light attenuation (25cm beam) (Channel 2)
Method : 660nm 25cm transmissometer
Units : per metre

Parameter : CNDCPR01 (HYDR)
Description : Probe measured conductivity
Method : Conductivity probe
Units : Mhos/metre

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

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

Parameter : LCDAEL02 (CURR)
Description : Current direction (Eulerian method) (Channel 2)
Method : In-situ current measurement
Units : Degrees True

Parameter : LCDAEL03 (CURR)
Description : Current direction (Eulerian method) (Channel 3)
Method : In-situ current measurement
Units : Degrees True

Parameter : LCDAEL04 (CURR)
Description : Current direction (Eulerian method) (Channel 4)
Method : In-situ current measurement
Units : Degrees True

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 speed
Method : Acoustic current meter
Units : cms/sec

Parameter : LCVSAC02 (CURR)
Description : Vertical current speed (Channel 2)
Method : Acoustic current meter
Units : cms/sec

Parameter : LCVSAC03 (CURR)
Description : Vertical current speed (Channel 3)
Method : Acoustic current meter
Units : cms/sec

Parameter : LCVSAC04 (CURR)
Description : Vertical current speed (Channel 4)
Method : Acoustic current meter
Units : cms/sec

Parameter : NEPHIF01 (SPM)
Description : Nephelometer turbidity (IFREMER)
Method : IFREMER in-situ nephelometer
Units : Dimensionless

Parameter : PRESPS01 (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 channel 1)
(shallowest)
Method : In-situ thermistor
Units : Degrees Centigrade

Parameter : TEMPTC02 (HYDR)
Description : Sea temperature (thermistor chain channel 2)
(channel 1 is shallowest)
Method : In-situ thermistor
Units : Degrees Centigrade

Parameter : TEMPTC03 (HYDR)
Description : Sea temperature (thermistor chain channel 3)
(channel 1 is shallowest)
Method : In-situ thermistor
Units : Degrees Centigrade

Parameter	:	TEMPTC04 (HYDR)
Description	:	Sea temperature (thermistor chain channel 4) (channel 1 is shallowest)
Method	:	In-situ thermistor
Units	:	Degrees Centigrade
Parameter	:	TEMPTC05 (HYDR)
Description	:	Sea temperature (thermistor chain channel 5) (channel 1 is shallowest)
Method	:	In-situ thermistor
Units	:	Degrees Centigrade
Parameter	:	TEMPTC06 (HYDR)
Description	:	Sea temperature (thermistor chain channel 6) (channel 1 is shallowest)
Method	:	In-situ thermistor
Units	:	Degrees Centigrade
Parameter	:	TEMPTC07 (HYDR)
Description	:	Sea temperature (thermistor chain channel 7) (channel 1 is shallowest)
Method	:	In-situ thermistor
Units	:	Degrees Centigrade
Parameter	:	TEMPTC08 (HYDR)
Description	:	Sea temperature (thermistor chain channel 8) (channel 1 is shallowest)
Method	:	In-situ thermistor
Units	:	Degrees Centigrade
Parameter	:	TEMPTC09 (HYDR)
Description	:	Sea temperature (thermistor chain channel 9) (channel 1 is shallowest)
Method	:	In-situ thermistor
Units	:	Degrees Centigrade
Parameter	:	TEMPTC10 (HYDR)
Description	:	Sea temperature (thermistor chain channel 10) (channel 1 is shallowest)
Method	:	In-situ thermistor
Units	:	Degrees Centigrade

Flag Definitions

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 Downcast
D	Thermometric depth
E	End of CTD Downcast
K	Uncertain/suspect value
L	Improbable value - originator's quality control
M	Improbable value - BODC quality control
N	Null value
P	Trace/calm
Q	Indeterminate
R	Replacement value
S	Estimated value
T	Interpolated value
W	Control value
X	Excessive difference