

Temperature Probe data series at the northern North Sea site

Principal Investigator

John Howarth, Proudman Oceanographic Laboratory (POL), Merseyside, UK.

Data Originator

Phil Knight – POL.

Temperature probes were deployed alongside ADCPs on the seabed landers (Rigs A, B, C, U and V) and alongside thermistor chain on rigs L, R, and S. A total of 16 time-series are included in the PROVCESS data set for the northern North Sea. Temperature probes from Rig L were lost with the rig.

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

Series Reference	Data Type	Latitude deg min	Longitude deg min	Start Date yyyy/mm/dd	Sea Floor Depth m	Sensor Depth m
517613	PC	59 20.0 N	001 05.0 E	1998/09/10	113.0	88.0
517625	PC	59 20.0 N	001 05.0 E	1998/09/10	113.0	93.0
517637	PC	59 20.0 N	001 05.0 E	1998/09/10	113.0	98.0
517649	PC	59 20.0 N	001 05.0 E	1998/09/10	113.0	108.0
517650	PC	59 22.5 N	001 00.0 E	1998/09/10	115.0	32.0
517662	PC	59 22.5 N	001 00.0 E	1998/09/10	115.0	85.0
517674	PC	59 22.5 N	001 00.0 E	1998/09/10	115.0	90.0
517686	PC	59 22.5 N	001 00.0 E	1998/09/10	115.0	95.0
517698	PC	59 22.5 N	001 00.0 E	1998/09/10	115.0	100.0
517705	PC	59 22.5 N	001 00.0 E	1998/09/10	115.0	105.0
517717	PC	59 22.5 N	001 00.0 E	1998/09/10	115.0	110.0
517729	PC	59 19.7 N	001 00.2 E	1998/09/08	110.0	109.5
517730	PC	59 19.4 N	001 00.1 E	1998/09/08	113.0	112.5
517742	PC	59 19.5 N	001 06.0 E	1998/09/08	113.0	112.5
517754	PC	59 34.6 N	000 59.6 E	1998/09/09	116.0	115.5
517766	PC	59 20.0 N	001 25.1 E	1998/09/07	107.0	106.5

where Data Type PC = Hydrography time series at depth

Parameter	Unit	Parameter code	Comments All series
Temperature	deg. C	TEMPPR01	none

BODC Data Documentation
PROVSS Project MAS3-CT97-015

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

<u>Flag</u>	<u>Description</u>
	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

INFORMATION FOR BODC SERIES REF. NO. 517613

Time Series Inventory Number : 10149

Start Time : 10 Sep 1998 1225 GMT

Latitude : 59deg 20.0min N

End Time : 01 Nov 1998 0900 GMT

Longitude : 001deg 05.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 88.00m

Sea Floor Depth : 113.00m

Positional Uncertainty : 0.1 to 0.5 n.miles

Sea Floor Datum : Instantaneous

Sensor Depth Datum : Sea floor reference

Disposition of Sensors : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Temperature and/or pressure time series

Instrument Mounting : Subsurface mooring - subsurface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : TP2413.802

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517625

Time Series Inventory Number : 10148

Start Time : 10 Sep 1998 1225 GMT

Latitude : 59deg 20.0min N

End Time : 01 Nov 1998 0900 GMT

Longitude : 001deg 05.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 93.00m

Sea Floor Depth : 113.00m

Positional Uncertainty : 0.1 to 0.5 n.miles

Sea Floor Datum : Instantaneous

Sensor Depth Datum : Sea floor reference

Disposition of Sensors : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Temperature and/or pressure time series

Instrument Mounting : Subsurface mooring - subsurface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : TP2414.802

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517637

Time Series Inventory Number : 10147

Start Time : 10 Sep 1998 1225 GMT

Latitude : 59deg 20.0min N

End Time : 01 Nov 1998 0900 GMT

Longitude : 001deg 05.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 98.00m

Sea Floor Depth : 113.00m

Positional Uncertainty : 0.1 to 0.5 n.miles

Sea Floor Datum : Instantaneous

Sensor Depth Datum : Sea floor reference

Disposition of Sensors : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Temperature and/or pressure time series

Instrument Mounting : Subsurface mooring - subsurface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : TP2415.802

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517649

Time Series Inventory Number : 10146

Start Time : 10 Sep 1998 1225 GMT
End Time : 01 Nov 1998 0900 GMT

Latitude : 59deg 20.0min N
Longitude : 001deg 05.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 108.00m
Sea Floor Depth : 113.00m

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

Project : Provess

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - subsurface buoyancy
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : TP2417.802

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC
[70216](#); Vemco Minilog12 Temperature Data Logger
Data Activity Document: [77568](#)
Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517650

Time Series Inventory Number : 10156

Start Time : 10 Sep 1998 1420 GMT

Latitude : 59deg 22.5min N

End Time : 01 Nov 1998 1020 GMT

Longitude : 001deg 00.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 32.00m

Sea Floor Depth : 115.00m

Positional Uncertainty : 0.1 to 0.5 n.miles

Sea Floor Datum : Instantaneous

Sensor Depth Datum : Sea floor reference

Disposition of Sensors : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Temperature and/or pressure time series

Instrument Mounting : Subsurface mooring - subsurface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : TP2419.803

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517662

Time Series Inventory Number : 10155

Start Time : 10 Sep 1998 1420 GMT

Latitude : 59deg 22.5min N

End Time : 01 Nov 1998 1020 GMT

Longitude : 001deg 00.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 85.00m

SeaFloor Depth : 115.00m

Positional Uncertainty : 0.1 to 0.5 n.miles

Sea Floor Datum : Instantaneous

Sensor Depth Datum : Sea floor reference

Disposition of Sensors : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Temperature and/or pressure time series

Instrument Mounting : Subsurface mooring - subsurface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : TP2420.803

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517674

Time Series Inventory Number : 10154

Start Time : 10 Sep 1998 1420 GMT

Latitude : 59deg 22.5min N

End Time : 01 Nov 1998 1020 GMT

Longitude : 001deg 00.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 90.00m

Sea Floor Depth : 115.00m

Positional Uncertainty : 0.1 to 0.5 n.miles

Sea Floor Datum : Instantaneous

Sensor Depth Datum : Sea floor reference

Disposition of Sensors : Sensor fixed, measurements made at fixed depths

Project : Provens

Data Category : Hydrography time series at depth

Instrument Type : Temperature and/or pressure time series

Instrument Mounting : Subsurface mooring - subsurface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : TP2421.803

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517686

Time Series Inventory Number : 10153

Start Time : 10 Sep 1998 1420 GMT
End Time : 01 Nov 1998 1020 GMT

Latitude : 59deg 22.5min N
Longitude : 001deg 00.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 95.00m
Sea Floor Depth : 115.00m

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

Project : Provess

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - subsurface buoyancy
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : TP2422.803

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517698

Time Series Inventory Number : 10152

Start Time : 10 Sep 1998 1420 GMT

Latitude : 59deg 22.5min N

End Time : 01 Nov 1998 1020 GMT

Longitude : 001deg 00.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 100.00m

Sea Floor Depth : 115.00m

Positional Uncertainty : 0.1 to 0.5 n.miles

Sea Floor Datum : Instantaneous

Sensor Depth Datum : Sea floor reference

Disposition of Sensors : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Temperature and/or pressure time series

Instrument Mounting : Subsurface mooring - subsurface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : TP2423.803

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517705

Time Series Inventory Number : 10151

Start Time : 10 Sep 1998 1420 GMT
End Time : 01 Nov 1998 1020 GMT

Latitude : 59deg 22.5min N
Longitude : 001deg 00.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 105.00m
Sea Floor Depth : 115.00m

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

Project : Provess

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Subsurface mooring - subsurface buoyancy
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : TP2425.803

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC
[70216](#); Vemco Minilog12 Temperature Data Logger
Data Activity Document: [77568](#)
Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517717

Time Series Inventory Number : 10150

Start Time : 10 Sep 1998 1420 GMT

Latitude : 59deg 22.5min N

End Time : 01 Nov 1998 1020 GMT

Longitude : 001deg 00.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 110.00m

Sea Floor Depth : 115.00m

Positional Uncertainty : 0.1 to 0.5 n.miles

Sea Floor Datum : Instantaneous

Sensor Depth Datum : Sea floor reference

Disposition of Sensors : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Temperature and/or pressure time series

Instrument Mounting : Subsurface mooring - subsurface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : TP2427.803

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517729

Time Series Inventory Number : 10157

Start Time : 08 Sep 1998 0910 GMT
End Time : 02 Nov 1998 1505 GMT

Latitude : 59deg 19.7min N
Longitude : 001deg 00.2min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 109.50m
Sea Floor Depth : 110.00m

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

Project : Provess

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : TP1362.790

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC
[70216](#); Vemco Minilog12 Temperature Data Logger
Data Activity Document: [77568](#)
Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517730

Time Series Inventory Number : 10165

Start Time : 08 Sep 1998 1135 GMT
End Time : 15 Sep 1998 0800 GMT

Latitude : 59deg 19.4min N
Longitude : 001deg 00.1min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 112.50m
Sea Floor Depth : 113.00m

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

Project : Provess

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : TP1371.792

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC
[70216](#); Vemco Minilog12 Temperature Data Logger
Data Activity Document: [77568](#)
Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517742

Time Series Inventory Number : 10158

Start Time : 08 Sep 1998 1230 GMT

Latitude : 59deg 19.5min N

End Time : 01 Nov 1998 1525 GMT

Longitude : 001deg 06.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 112.50m

Sea Floor Depth : 113.00m

Positional Uncertainty : 0.1 to 0.5 n.miles

Sea Floor Datum : Instantaneous

Sensor Depth Datum : Sea floor reference

Disposition of Sensors : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Temperature and/or pressure time series

Instrument Mounting : Sea floor - fixed

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : TP2406.791

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517754

Time Series Inventory Number : 10164

Start Time : 09 Sep 1998 1630 GMT
End Time : 03 Nov 1998 1030 GMT

Latitude : 59deg 34.6min N
Longitude : 000deg 59.6min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 115.50m
Sea Floor Depth : 116.00m

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

Project : Provens

Data Category : Hydrography time series at depth
Instrument Type : Temperature and/or pressure time series
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : TP2407.805

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC
[70216](#); Vemco Minilog12 Temperature Data Logger
Data Activity Document: [77568](#)
Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 517766

Time Series Inventory Number : 10163

Start Time : 07 Sep 1998 1140 GMT

Latitude : 59deg 20.0min N

End Time : 02 Nov 1998 1040 GMT

Longitude : 001deg 25.1min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 106.50m

Sea Floor Depth : 107.00m

Positional Uncertainty : 0.1 to 0.5 n.miles

Sea Floor Datum : Instantaneous

Sensor Depth Datum : Sea floor reference

Disposition of Sensors : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Temperature and/or pressure time series

Instrument Mounting : Sea floor - fixed

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : TP2426.804

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC

[70216](#); Vemco Minilog12 Temperature Data Logger

Data Activity Document: [77568](#)

Project Document : [77554](#)

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

Parameters AADY/AAFD are usually supplied as date and time (GMT) or as parameters ADATAA01 and AHMSAA01.

Parameter : ADATAA01 (TIME)
Description : Date in format yyyyymmdd
Method : Computation
Units : Years Months Days (yyyyymmdd)

Parameter : AHMSAA01 (TIME)
Description : Time in format hh24miss
Method : Computation
Units : Hours Minutes Seconds

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