

Temperature probe data series at the southern North Sea site

Principal Investigator

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

Data Originator

Phil Knight – POL.

Temperature probes were deployed on seabed landers alongside ADCPs, water level recorders or thermistor chains (Rigs B and T, Rigs X and Y) and at different depths in the water column alongside current meters (Rigs U and V). A total of eight time-series are included in the PROVCESS data set for the southern North Sea. Three temperature probes deployed on Rig U 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
529245	PC	52 19.2 N	004 11.7 E	1999/03/30	22.0	21.5
529257	PC	52 18.1 N	004 18.4 E	1999/03/30	20.0	19.5
529269	PC	52 21.8 N	003 52.0 E	1999/03/29	24.0	23.5
529270	PC	52 34.1 N	004 24.0 E	1999/03/30	19.0	18.5
529282	PC	52 20.1 N	004 21.0 E	1999/03/30	19.0	8.0
529294	PC	52 20.1 N	004 21.0 E	1999/03/30	19.0	9.0
529301	PC	52 20.1 N	004 21.0 E	1999/03/30	19.0	15.0
529313	PC	52 20.1 N	004 21.0 E	1999/03/30	19.0	18.0

where Data Type PC = Hydrography time series at depth

Parameter	Unit	Parameter code	Comments All series
Sea 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. 529245

Time Series Inventory Number : 10390

Start Time : 30 Mar 1999 0819 GMT
End Time : 18 May 1999 1520 GMT

Latitude : 52deg 19.2min N
Longitude : 004deg 11.7min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 21.50m
Sea Floor Depth : 22.00m

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 : tp1362.825

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: 78072
Project Document : 77554

INFORMATION FOR BODC SERIES REF. NO. 529257

Time Series Inventory Number : 10382

Start Time : 30 Mar 1999 1400 GMT
End Time : 19 May 1999 0620 GMT

Latitude : 52deg 18.1min N
Longitude : 004deg 18.4min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 19.50m
Sea Floor Depth : 20.00m

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 : tp1371.821

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: 78072
Project Document : 77554

INFORMATION FOR BODC SERIES REF. NO. 529269

Time Series Inventory Number : 10404

Start Time : 29 Mar 1999 1845 GMT
End Time : 18 May 1999 1755 GMT

Latitude : 52deg 21.8min N
Longitude : 003deg 52.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 23.50m
Sea Floor Depth : 24.00m

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 : tp2406.828

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: 78072
Project Document : 77554

INFORMATION FOR BODC SERIES REF. NO. 529270

Time Series Inventory Number : 10406

Start Time : 30 Mar 1999 1815 GMT
End Time : 19 May 1999 0520 GMT

Latitude : 52deg 34.1min N
Longitude : 004deg 24.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 18.50m
Sea Floor Depth : 19.00m

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 : tp2407.829

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: 78072
Project Document : 77554

INFORMATION FOR BODC SERIES REF. NO. 529282

Time Series Inventory Number : 10398

Start Time : 30 Mar 1999 1650 GMT
End Time : 18 May 1999 1355 GMT

Latitude : 52deg 20.1min N
Longitude : 004deg 21.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 8.00m
Sea Floor Depth : 19.00m

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 - surface and subsurface legs
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : tp2417.827

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: 78072
Project Document : 77554

INFORMATION FOR BODC SERIES REF. NO. 529294

Time Series Inventory Number : 10399

Start Time : 30 Mar 1999 1650 GMT
End Time : 18 May 1999 1355 GMT

Latitude : 52deg 20.1min N
Longitude : 004deg 21.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 9.00m
Sea Floor Depth : 19.00m

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 - surface and subsurface legs
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : tp2419.827

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: 78072
Project Document : 77554

INFORMATION FOR BODC SERIES REF. NO. 529301

Time Series Inventory Number : 10400

Start Time : 30 Mar 1999 1650 GMT
End Time : 18 May 1999 1355 GMT

Latitude : 52deg 20.1min N
Longitude : 004deg 21.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 15.00m
Sea Floor Depth : 19.00m

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 - surface and subsurface legs
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : tp2420.827

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: 78072
Project Document : 77554

INFORMATION FOR BODC SERIES REF. NO. 529313

Time Series Inventory Number : 10402

Start Time : 30 Mar 1999 1650 GMT
End Time : 18 May 1999 1355 GMT

Latitude : 52deg 20.1min N
Longitude : 004deg 21.0min E

Nominal Cycle Interval : 5.0 minutes

Sensor Depth : 18.00m
Sea Floor Depth : 19.00m

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 - surface and subsurface legs
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : tp2421.827

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: 78072
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