

## POL Bottom Pressure data series at the southern North Sea site

### Principal Investigator

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

### Data Originator

Phil Knight – POL.

Bottom pressure recorders were deployed on Rig B at the main southern North Sea mooring site (Site A) and at three secondary mooring sites: T (Rig T), X (Rig X) and Y (Rig Y). The recorder on Rig T was a wave and tide recorder which operated in burst mode and in integrated mode.

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
529325	PC	52 21.8 N	003 52.0 E	1999/03/29	24.0	23.5
529337	PC	52 34.1 N	004 24.0 E	1999/03/30	19.0	18.5
529349	PC	52 18.1 N	004 18.4 E	1999/03/30	20.0	19.5
529350	PC	52 19.2 N	004 11.7 E	1999/03/30	22.0	21.5

where Data Type PC = Hydrography time series at depth

Parameter	Unit	Parameter code	Comments			
			529325 (Rig X)	529337 (Rig Y)	529349 (Rig B)	529350 (Rig T)
Pressure	db	PRESPP01	none	none	none	none
Temperature	deg. C	TEMPPP01	caution	caution	caution	caution

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

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

---

---

**INFORMATION FOR BODC SERIES REF. NO. 529325**

---

---

Time Series Inventory Number : 10403

Start Time : 29 Mar 1999 1849 GMT  
End Time : 18 May 1999 1749 GMT

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

Nominal Cycle Interval : 10.0 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 : wr0444.828 (Rig X)

---

---

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

Comparison with temperature records from a Minilog Temperature Probe located on the same bottom frame indicates that the temperature channel of the bottom pressure recorder was consistently underestimating water temperature by ca 0.3 degree C.

---

---

Additional information stored with the data:

Pressure Recorder data processing carried out at POL, Merseyside.

The data have been converted to scientific units using factory calibrations. The time channel has been adjusted to take account of the 40 seconds integration period.

---

---

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC  
[67867](#); Aanderaa Bottom Pressure Recorders  
Data Activity Document: [78072](#)  
Project Document : [77554](#)

---

---

**INFORMATION FOR BODC SERIES REF. NO. 529337**

---

---

Time Series Inventory Number : 10405

Start Time : 30 Mar 1999 1820 GMT  
End Time : 19 May 1999 0520 GMT

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

Nominal Cycle Interval : 10.0 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 : wr1042.829 (Rig Y)

---

---

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

Comparison with temperature records from a Minilog Temperature Probe located on the same bottom frame indicates that the temperature channel of the bottom pressure recorder was consistently underestimating water temperature by ca 0.3 degree C.

---

---

Additional information stored with the data:

Pressure Recorder data processing carried out at POL, Merseyside.

The data have been converted to scientific units using factory calibrations. The time channel has been adjusted to take account of the 40 seconds integration period.

---

---

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC  
[67867](#); Aanderaa Bottom Pressure Recorders  
Data Activity Document: [78072](#)  
Project Document : [77554](#)

---

---

**INFORMATION FOR BODC SERIES REF. NO. 529349**

---

---

Time Series Inventory Number : 10381

Start Time : 30 Mar 1999 1400 GMT  
End Time : 19 May 1999 0610 GMT

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

Nominal Cycle Interval : 10.0 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 : 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 : wr1357.821 (Site A, Rig B)

---

---

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

Comparison with temperature records from a Minilog Temperature Probe located on the same bottom frame indicates that the temperature channel of the bottom pressure recorder was consistently underestimating water temperature by ca 0.3 degree C.

---

---

Additional information stored with the data:

Pressure Recorder data processing carried out at POL, Merseyside.

The data have been converted to scientific units using factory calibrations. The time channel has been adjusted to take account of the 40 seconds integration period.

---

---

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC  
[67867](#); Aanderaa Bottom Pressure Recorders  
Data Activity Document: [78072](#)  
Project Document : [77554](#)

---

---

## INFORMATION FOR BODC SERIES REF. NO. 529350

---

---

Time Series Inventory Number : 10392

Start Time : 30 Mar 1999 0825 GMT                      Latitude : 52deg 19.2min N  
End Time : 18 May 1999 1435 GMT                      Longitude : 004deg 11.7min E

Nominal Cycle Interval : 10.0 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 : Bottom pressure sensor wave recorder  
Instrument Mounting : Sea floor - fixed  
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK  
Originator's Identifier : wt0004.825 (Rig T)

---

---

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

Comparison with temperature records from a Minilog Temperature Probe located on the same bottom frame indicates that the temperature channel of the bottom pressure recorder was consistently underestimated water temperature by ca 0.2 degree C.

---

---

Additional information stored with the data:

This instrument was operating in two modes: a burst mode with a sampling frequency of 0.5 second for 20 minutes every 3 hours and an integrated mode with an integration period of 10 minutes. The present series corresponds to the integrated data. The burst data have not been processed and are available in the originators' ASCII format.

Pressure Recorder data processing carried out at POL, Merseyside.

The data have been converted to scientific units using factory calibrations. The time channel has been adjusted to take account of the 600 seconds integration period.

---

---

The following additional documents apply to this series:

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

[67867](#); Aanderaa Bottom Pressure Recorders

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).

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

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