

POL ADCP data series at the southern North Sea site

Principal Investigator

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Data Originator

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Two 1.2 MHz workhorse ADCPs from the Proudman Oceanographic Laboratory were deployed at two locations during the cruise Pelagia PE136 at the beginning of the southern North Sea (SNS) experiment in March 1999 and recovered during the last SNS cruise Challenger CH140 in May 1999. One location was the main mooring site A (Site A / Rig B), the other was one of the secondary sites (Site T / Rig T). They were deployed alongside Thermistor-Conductivity-Pressure chains, S4 current meters, water level recorders and temperature probes. Another ADCP (1.2 MHz broadband ADCP), from the Netherlands Institute of Sea Research (NIOZ), was deployed at the main mooring site A on the NIOZ rig and has been documented separately ([sns_niozadcp](#)).

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
541822	LA	52 19.2 N	004 11.7 E	1999/03/30	22.0	3.5
541834	LA	52 18.1 N	004 18.4 E	1999/03/30	20.0	0.0

where Data Type LA = Currents -subsurface Eulerian

Parameter	Unit	Parameter code	Comments	
			541822 (Rig T)	541834 (Rig B)
Bin depth (*)	m	DBINAA01	none	none
E-W current velocity	cm/s	LCEWAP01	none	none
N-S current velocity	cm/s	LCNSAP01	none	none
Error velocity	cm/s	LERRAP01	none	none
Vertical current velocity	cm/s	LRZAAP01	none	none

(*) Bin depth was calculated by subtracting the instrument bin height from the sea floor depth as given in the table above.

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. 541822

Time Series Inventory Number : 10387

Start Time : 30 Mar 1999 0817 GMT
End Time : 18 May 1999 1457 GMT

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

Nominal Cycle Interval : 300.0 secs

Minimum Depth : 3.50m
Maximum Depth : 20.50m
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 : Currents -subsurface Eulerian
Instrument Type : Acoustic current meter
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : bb0253.825 (Rig T)

Additional information stored with the data:

Data processing was carried out at the Proudman Oceanographic Laboratory, Merseyside, UK. The time channel was adjusted to take into account the averaging period, by adding half the sampling interval to the recorded scan time.

The current data have been corrected for a magnetic deviation of 2.2 degrees.

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC
[68541](#); RDI Acoustic Doppler Current Profiler
Data Activity Document: [78072](#)
Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 541834

Time Series Inventory Number : 10379

Start Time : 30 Mar 1999 1405 GMT
End Time : 20 May 1999 1105 GMT

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

Nominal Cycle Interval : 3600.0 secs

Minimum Depth : 0.00m
Maximum Depth : 18.00m
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 : Currents -subsurface Eulerian
Instrument Type : Acoustic current meter
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK
Originator's Identifier : bb0572.821 (Site A, Rig B)

Additional information stored with the data:

Data processing was carried out at the Proudman Oceanographic Laboratory, Merseyside, UK.

The recorder of this ADCP was setup to fast sample mode, sampling every 2 seconds for 10 minutes every hour. This data series contains the hourly ten-minute averages of the fast sample data.

The time channel has been adjusted to take into account the averaging period, by adding half the sampling interval to the recorded scan time. The current direction has been corrected for a magnetic deviation of 2.2 degrees.

The following additional documents apply to this series:

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

[68541](#); RDI Acoustic Doppler Current Profiler

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 : LCEWAP01 (CURR)
Description : E-W current velocity (ADCP)
Method : Moored acoustic doppler current meter
Units : cms/sec

Parameter : LCNSAP01 (CURR)
Description : N-S current velocity (ADCP)
Method : Moored acoustic doppler current meter
Units : cms/sec

Parameter : LERRAP01 (CURR)
Description : Error velocity (ADCP)
Method : Moored acoustic doppler current meter
Units : cms/sec

Parameter : LRZAAP01 (CURR)
Description : Vertical current velocity (ADCP)
Method : Moored acoustic doppler current meter
Units : cms/sec