

NIOZ Fast Thermistor String data series at the northern North Sea site

Principal Investigator and Data Originator

Dr. Hans van Haren, Nederlands Instituut voor Onderzoek der Zee (NIOZ), Texel, The Netherlands.

The NIOZ Fast Thermistor String was deployed on NIOZ bottom frame, moored at the main mooring site A during the northern North Sea experiment from October to November 1999. The rig, which also held a second thermistor string and an ADCP, was deployed and recovered by NIOZ during the cruise Pelagia PE125.

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
564231	PC	59 19.1 N	001 00.5 E	1998/10/21	110.0	56.0

where Data Type PC = Hydrography time series at depth

Parameter	Unit	Parameter code	Comments
Depth	m	DEPHTC01	none
Temperature	deg.C	TEMPTC01	none

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. 564231

Time Series Inventory Number : 10680

Start Time : 21 Oct 1998 1412 GMT
End Time : 03 Nov 1998 1326 GMT

Latitude : 59deg 19.1min N
Longitude : 001deg 00.5min E

Nominal Cycle Interval : 30.0 secs

Minimum Depth : 56.00m
Maximum Depth : 87.00m
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 : Scattered at fixed depths

Project : Provess

Data Category : Hydrography time series at depth
Instrument Type : Thermistor chain
Instrument Mounting : Sea floor - fixed
Originator Laboratory : Netherlands Institute for Sea Research
Originator's Identifier : TCHN/PVS98

Additional information stored with the data:

NFTS thermistor string data processing carried out by NIOZ, Netherlands:

The tilt meters on the NFTS indicated that the string was upright during the entire deployment period, swinging less than 5 degrees. No correction was therefore applied. Raw data were transferred to engineering units using the laboratory calibration results and the mean was adjusted using CTD data from cruise Pelagia PE125.

Mooring configuration:

For the northern North Sea deployment, the NFTS was moored in conjunction with a 600 kHz upward looking ADCP mounted in a NIOZ bottom-landing frame. A second, modified Aanderaa thermistor string holding 11 sensors at 2-m intervals was mounted in line below the NFTS to cover fully the range of the ADCP. A tilt meter was mounted at the top of the thermistor strings to monitor their swing. This was kept as low as possible by using eight glass spheres of 25 kg net buoyancy each, in the top end of the mooring line.

Note: the ADCP failed to retrieve data and data from the second thermistor string were generally bad and unusable.

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC
[82424](#); NIOZ Fast Thermistor String (NFTS)
[82438](#); Calibration of the NIOZ Fast Thermistor String (NFTS)
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 : TEMPTC01 (HYDR)
Description : Sea temperature (thermistor chain)
Method : In-situ thermistor
Units : Degrees Centigrade