

## NIOZ Tide & Wave Recorder data series at the southern North Sea site

### Principal Investigator

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

### Data Originator

Dr. Johannes Gemmrich - NIOZ.

The tide-and-wave recorder was deployed on NIOZ bottom frame, moored at the main mooring site A during the southern North Sea experiment from March to April 1999. The rig, which also held an ADCP and the NIOZ Fast Thermistor String, was deployed and recovered by NIOZ during the cruise Pelagia PE136.

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
553313	PC	52 18.1 N	004 18.0 E	1999/04/01	19.0	18.9
564243	GA	52 18.1 N	004 18.0 E	1999/03/29	19.0	18.9

where Data Type PC = Hydrography time series at depth  
GA = Waves -statistics

Parameter	Unit	Parameter code	Comments
<b>Tidal height data (series n° 553313)</b>			
Water level height	m	PPSBPS01	none
Sea temperature	deg. C	TEMPPR01	none
<b>Wave data (series n° 564243)</b>			
Significant wave height	m	GTDHFP01	warning: see text
Significant wave period	secs	GTPKFP01	warning: see text

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. 553313**

---

---

Time Series Inventory Number : 10683

Start Time : 01 Apr 1999 1608 GMT  
End Time : 08 Apr 1999 1453 GMT

Latitude : 52deg 18.1min N  
Longitude : 004deg 18.0min E

Nominal Cycle Interval : 900.0 secs

Sensor Depth : 18.85m  
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 : Bottom pressure sensor tide gauge  
Instrument Mounting : Sea floor - fixed  
Originator Laboratory : Netherlands Institute for Sea Research  
Originator's Identifier : TIDE/PVS99

---

---

Additional information stored with the data:

Tide gauge data processing carried out at NIOZ, The Netherlands:

The quality of the data was checked and atmospheric pressure was removed from the bottom pressure record so that the reading reflects the water level above the gauge (note: the instrument was mounted 0.15 m above sea floor).

=====

The Sea-Bird SBE-26 wave tide recorder was set up to sample average pressure data every 15 minutes for tidal height data and to burst-sample pressure data at a frequency of 1Hz for 20 minutes every hour for wave data.

---

---

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC  
[82441](#); Sea-Bird SEAGAUGE Wave & Tide Recorder SBE-26  
Data Activity Document: [78072](#)  
Project Document : [77554](#)

---

---

**INFORMATION FOR BODC SERIES REF. NO. 564243**

---

---

Wave Data Catalogue Number : 10705

Start Time : 29 Mar 1999 1408 GMT  
End Time : 08 Apr 1999 1608 GMT

Latitude : 52deg 18.1min N  
Longitude : 004deg 18.0min E

Nominal Cycle Interval : 3600.0 secs

Sensor Depth : 18.85m  
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 : Waves -statistics  
Instrument Type : Bottom pressure sensor wave recorder  
Instrument Mounting : Sea floor - fixed  
Originator Laboratory : Netherlands Institute for Sea Research  
Originator's Identifier : WAVE/PVS99

---

---

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

Wave data from this series were not processed further by the data originators because it contains a strong and unexplained tidal signal at the beginning (start to 31/3/1999 06:00) and end of the time-series (05/04/1999 12:00 to 07/04/1999 12:00).

---

---

Additional information stored with the data:

The Sea-Bird SBE-26 wave tide recorder was set up to sample average pressure data every 15 minutes for tidal height data and to burst-sample pressure data at a frequency of 1Hz for 20 minutes every hour for wave data.

---

---

The following additional documents apply to this series:

[63428](#); General Data Screening carried out by BODC  
[82441](#); Sea-Bird SEAGAUGE Wave & Tide Recorder SBE-26  
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 : PPSBPS01 (HYDR)  
Description : Corrected water column height (in-situ)  
Method : In-situ pressure sensor  
Units : Metres

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

Parameter : GTDHFP01 (WAVE)  
Description : Significant wave height (SFGP)  
Method : Fourier analysis on sea floor pressure recorder  
Units : Metres

Parameter : GTPKFP01 (WAVE)  
Description : Wave spectral maximum period  
Method : Fourier analysis on Pressure Transducer data  
Units : Seconds