

***In situ* fluorometer data series at the northern North Sea site**

Principal Investigator and Data Originator

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Three fluorometers from the Dunstaffnage Marine Laboratory (DML) and one from the Netherlands Institute of Sea Research (NIOZ) were deployed at the main mooring site A, on the three 'Environmental moorings' (Rigs I, J1 and J2) alongside transmissometers and nutrient analysers.

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 |
|------------------|-----------|------------------|-------------------|-----------------------|-------------------|----------------|
| 541951 | PC | 59 19.4 N | 001 00.6 E | 1998/09/09 | 111.0 | 15.0 |
| 541963 | PC | 59 19.4 N | 001 00.6 E | 1998/09/09 | 111.0 | 1.0 |
| 541975 | PC | 59 19.8 N | 001 00.5 E | 1998/09/09 | 110.0 | 99.0 |
| 541987 | PC | 59 19.6 N | 001 00.7 E | 1998/09/10 | 110.0 | 60.0 |

where Data Type PC = Hydrography time series at depth.

| Parameter | Unit | Parameter code | Comments | | | |
|--------------------------|----------------------|----------------|----------------|----------------|-----------------|-----------------|
| | | | 541951 (rig I) | 541963 (rig I) | 541975 (rig J2) | 541987 (rig J1) |
| Chlorophyll fluorescence | $\mu\text{g l}^{-1}$ | CPHLPR01 | none | none | none | none |
| Fluorescence counts | dimensionless | FCNTDC01 | none | none | none | 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. 541951

Time Series Inventory Number : 10507

Start Time : 09 Sep 1998 0800 GMT

Latitude : 59deg 19.4min N

End Time : 26 Oct 1998 1300 GMT

Longitude : 001deg 00.6min E

Nominal Cycle Interval : 3600.0 secs

Sensor Depth : 15.00m

Sea Floor Depth : 111.00m

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 : Fluorescence measurements

Instrument Mounting : Subsurface mooring - surface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : fl007_798

The following additional documents apply to this series:

[79516](#); Data processing and calibration

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

[70186](#); Fluorometer Instrumentation

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 541963

Time Series Inventory Number : 10506

Start Time : 09 Sep 1998 0800 GMT

Latitude : 59deg 19.4min N

End Time : 26 Oct 1998 1200 GMT

Longitude : 001deg 00.6min E

Nominal Cycle Interval : 7200.0 secs

Sensor Depth : 1.00m

Sea Floor Depth : 111.00m

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 : Fluorescence measurements

Instrument Mounting : Subsurface mooring - surface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : fl011_798

The following additional documents apply to this series:

[79516](#); Data processing and calibration

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

[70186](#); Fluorometer Instrumentation

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 541975

Time Series Inventory Number : 10509

Start Time : 09 Sep 1998 1800 GMT

Latitude : 59deg 19.8min N

End Time : 01 Nov 1998 0400 GMT

Longitude : 001deg 00.5min E

Nominal Cycle Interval : 7200.0 secs

Sensor Depth : 99.00m

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 : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Fluorescence measurements

Instrument Mounting : Subsurface mooring - subsurface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : fl012_800

The following additional documents apply to this series:

[79516](#); Data processing and calibration

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

[70186](#); Fluorometer Instrumentation

Data Activity Document: [77568](#)

Project Document : [77554](#)

INFORMATION FOR BODC SERIES REF. NO. 541987

Time Series Inventory Number : 10508

Start Time : 10 Sep 1998 1000 GMT

Latitude : 59deg 19.6min N

End Time : 05 Nov 1998 0400 GMT

Longitude : 001deg 00.7min E

Nominal Cycle Interval : 7200.0 secs

Sensor Depth : 60.00m

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 : Sensor fixed, measurements made at fixed depths

Project : Provess

Data Category : Hydrography time series at depth

Instrument Type : Fluorescence measurements

Instrument Mounting : Subsurface mooring - subsurface buoyancy

Originator Laboratory : Proudman Oceanographic Lab., Bidston, UK

Originator's Identifier : fl014_799

The following additional documents apply to this series:

[79516](#); Data processing and calibration

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

[70186](#); Fluorometer Instrumentation

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).

Parameter : CPHLPR01 (PIGS)
Description : In-situ fluorometer chlorophyll
Method : Calibrated in-situ fluorometer
Units : milligrams/cubic metre

Parameter : FCNTDC01 (PIGS)
Description : Dark current baseline corrected fluorometer count
Method : In-situ Aquatracka fluorometer
Units : Dimensionless