Silicate nutrient analyser data series at the northern North Sea site

Principal Investigator

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Data Originator

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The silicate NAS nutrient analyser was deployed on the near-bed environmental mooring (Rig J2) at the main mooring site A during the northern North Sea experiment from September to October 1998.

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
553128	PC	59 19.8 N	001 00.5 E	1998/09/09	110.0	102.0

where Data Type PC = Hydrography time series at depth

Parameter	Unit	Parameter code	Comments
Silicate absorbance	dimensionless	UCSANS01	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. 553128

Time Series Inventory Number : 10679

Start Time : 09 Sep 1998 1939 GMT
End Time : 03 Oct 1998 0609 GMT

Latitude : 59deg 19.8min N
Longitude : 001deg 00.5min E

Nominal Cycle Interval : 5400.0 secs

Sensor Depth : 102.00m
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 : In-situ nutrient analyser
Instrument Mounting : Subsurface mooring - subsurface buoyancy
Originator Laboratory : Southampton Oceanographic Lab., Southampton, UK
Originator's Identifier : nas1824_800

Additional information stored with the data:

Data processing carried out at the Southampton Oceanographic Laboratory, UK: on-board standard readings were not available for this data series because the outlet from the on-board standard reservoir was blocked. As a result silicate concentrations could not be quantified. Absorption readings were left unconverted and, absorption being linearly proportional to concentration, they provide information on the relative changes in silicate concentration during the deployment.

Data quality: due to the problem with on-board standard sampling mentioned above, erroneous absorbance readings are present in the data series every 9 hours, corresponding to the first water sample reading following the programmed standard sampling. These records were flagged as suspect in the banked time-series.

The following additional documents apply to this series:

63428; General Data Screening carried out by BODC
79983; NAS-2E in situ Nutrient Analyser
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 : UCSANS01 (CNPS)
Description : Uncalibrated silicate absorbance (in-situ)
Method : NAS in-situ analyser
Units : Dimensionless