

Suspended particulate matter data series for cruise Pelagia PE136

Data Originator

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Content of data series

| Parameter | Unit | Parameter code | Number of samples | Number of stations | Comments |
|-------------------------|--------------------|----------------|-------------------|---------------------------|----------|
| Total SPM (on GF/F) | mg l ⁻¹ | TSEDGVP1 | 50 | 22 CTD, 3 NT, 4 BUCKET | none |
| Inorganic SPM (on GF/F) | mg l ⁻¹ | ISEDGVP1 | 50 | 22 CTD, 3 NT, 4 BUCKET | none |
| Organic SPM (on GF/F) | mg l ⁻¹ | OSEDGVP3 | 50 | 22 CTD, 3 NT, 4 BUCKET | none |
| Total SPM (on GF/C) | mg l ⁻¹ | TSEDGVP3 | 4 | 4 CTD | none |
| Inorganic SPM (on GF/C) | mg l ⁻¹ | ISEDGVP1 | 4 | 4 CTD | none |
| Organic SPM (on GF/C) | mg l ⁻¹ | OSEDGVP3 | 4 | 4 CTD | none |

CTD= CTD-Rosette water column sampling station.

NT= surface underway sampling from ship's non-toxic supply.

BUCKET= surface sampling with plastic bucket attached to rope.

Originator's protocol

Samples for the measurement of suspended particulate matter (SPM) were taken to provide calibration data for optical measurements made with a Profiling Radiometer.

Water samples were mainly taken from the CTD water bottles although the ship's non-toxic flow-through system and bucket sampling were also used. Samples originated mainly from the surface except during the first two days (2 and 3 April) and the last day (7 April) of the survey when samples were taken at the sea bed, 6 metre depth and surface. The samples were filtered onto pre-weighed GF/F or GF/C filters and concentrations of total, organic and inorganic sediment were determined by gravimetry. Inorganic SPM was determined after ignition of the sample at 500°C for 3 hours.

BODC processing

The data were loaded into a database under the ORACLE Relational Database Management System without modification.

Comments on data quality

None to report.