

## **Phytoplankton pigment concentration data series for cruise Dana D1198**

### **Principal Investigator**

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### **Content of data series**

Parameter	Unit	Parameter code	Number of samples	Number of stations	Comments
Chlorophyll a	$\mu\text{g l}^{-1}$	CPHLSPP3	66	17 CTD	none
Phaeopigment a	$\mu\text{g l}^{-1}$	PHAESPP3	55	17 CTD	none

CTD= CTD-Rosette water column sampling station.

### **Originator's protocol (Jens Heilmann, DIFRES)**

Water samples for the determination of phytoplankton pigment concentrations were collected at selected depths (usually 3-4) during the upcast of the CTD cast. About 4 litres of seawater were filtered onto GF/C filters under 0.2 bar vacuum. The filters were then extracted in the dark in 5 ml, 90% acetone. Determination of pigment concentration was made following the Lorenzen method (Strickland & Parsons 1972). The spectral properties of the samples were measured against 90% acetone blank using a Perkin-Elmer 554 UV-VIS spectrophotometer at wavelengths of 750, 665, 664, 647, 630, 510 and 480 nm before and after addition of hydrochloric acid.

### **BODC processing**

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

### **Comments on data quality**

A number of analysed samples (n=13) exhibited suspiciously low/high value relative to that expected from their associated fluorescence profile and from the vertical distribution of chlorophyll concentration observed at most stations during this cruise as well as during concomitant PROVCESS cruises (CH140 and PE125). These data (chlorophyll and phaeopigment concentrations) were flagged as suspect in the database (symbolised by an 'M' flag).

### **Reference**

Strickland JDH, Parsons TR (1972) A practical handbook of seawater analysis. Bull. Fish. Res. Bd. Can., vol. 167, pp. 1-310.