Dataset name: **Diatom growth rates**

|  |  |
| --- | --- |
| Parameters: | * **Diatom taxon–specific growth rates**
 |

PROJECT TITLE: **MOBYDICK**

Oceanographic cruise: **MOBYDICK**

Start date: **18/02/2018**

End date: **27/03/2018**

Project manager: **Bernard Quéguiner** bernard.queguiner@mio.osupytheas.fr

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Chief scientist: **Ingrid Obernosterer** ingrid.obernosterer@obs-banyuls.fr

Address: **Laboratoire d’Océanographie Microbienne**

 **Observatoire Océanologique de Banyuls sur mer**

 **66650 Banyuls sur mer, France**

 Geographic information: **Indian sector of the Southern Ocean**

 Latitude: **49.5°S – 52.5°S**

 Longitude: **67,0°E – 74.5°E**

Parameter supervisor: **Karine Leblanc**

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# OPERATIONS

## Sampling device(s)

Seawater samples were collected from rosette bottles during CTD casts (usually 10 depths between 0–200 m, see Table 1 below).

## List of stations sampled

**Table 1 : Sampling operations for diatom growth rates**

|  |  |  |
| --- | --- | --- |
| **Station ID** | **Type of operation** | **Cast ID** |
| M2\_1 | CTD\_Stock | CTD\_007 |
| M4\_1 | CTD\_Stock | CTD\_013 |
| M3 | CTD\_Stock | CTD\_023 |
| M2\_2 | CTD\_Stock | CTD\_030 |
| M1 | CTD\_Stock | CTD\_038 |
| M4\_2 | CTD\_Stock | CTD\_042 |
| M2\_3 | CTD\_Stock | CTD\_053 |
| M3\_3 | CTD\_Stock | CTD\_061 |

# INSTRUMENTS

Instrument Type: **Inverted epifluorescence microscope**

Manufacturer: **Nikon**

Model: **TE–200**

Instrument Features / Calibration: **N/A**

Instrument Type: **Inverted epifluorescence microscope**

Manufacturer: **Zeiss**

Model: **Primovert**

Instrument Features / Calibration: **N/A**

Instrument Type: **Straight epifluorescence microscope**

Manufacturer: **Zeiss**

Model: **Axio Imager**

Instrument Features / Calibration: **N/A**

Instrument Type: **Inverted microscopes**

Manufacturer: **Zeiss**

Model: **Axio Vert**

Instrument Features / Calibration: **N/A**

# DESCRIPTION of PARAMETERS

## Measurement details

From PDMPO samples from the CTD stock, incubated in on–deck incubators, subsamples of 125 mL at T24 were collected and fixed with Lugol.

## Analytical procedure

At the laboratory, T24 samples will be counted and compared to T0 samples for net growth rate assessment per species.

## Units

* Diatom taxon–specific net growth rate d–1

## Sensor precision

N/A

## Post-cruise data analysis/treatment required

N/A

## Estimated Date of Delivery

December 2018