



## LEFE-CYBER database

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## Introduction

JGOFS → PROOF → LEFE-CYBER

CYBER (CYcle Biogéochimiques, Environnement et Ressources) is a part of the french national program LEFE (Les Enveloppes Fluides et l'Environnement) de l'INSU

The LEFE-CYBER database is a support activity to projects that were approved by the LEFE-CYBER scientific committee

=> Collect the data

=> Archive the data (or push the data to relevant archive)

=> Make the data available for the community

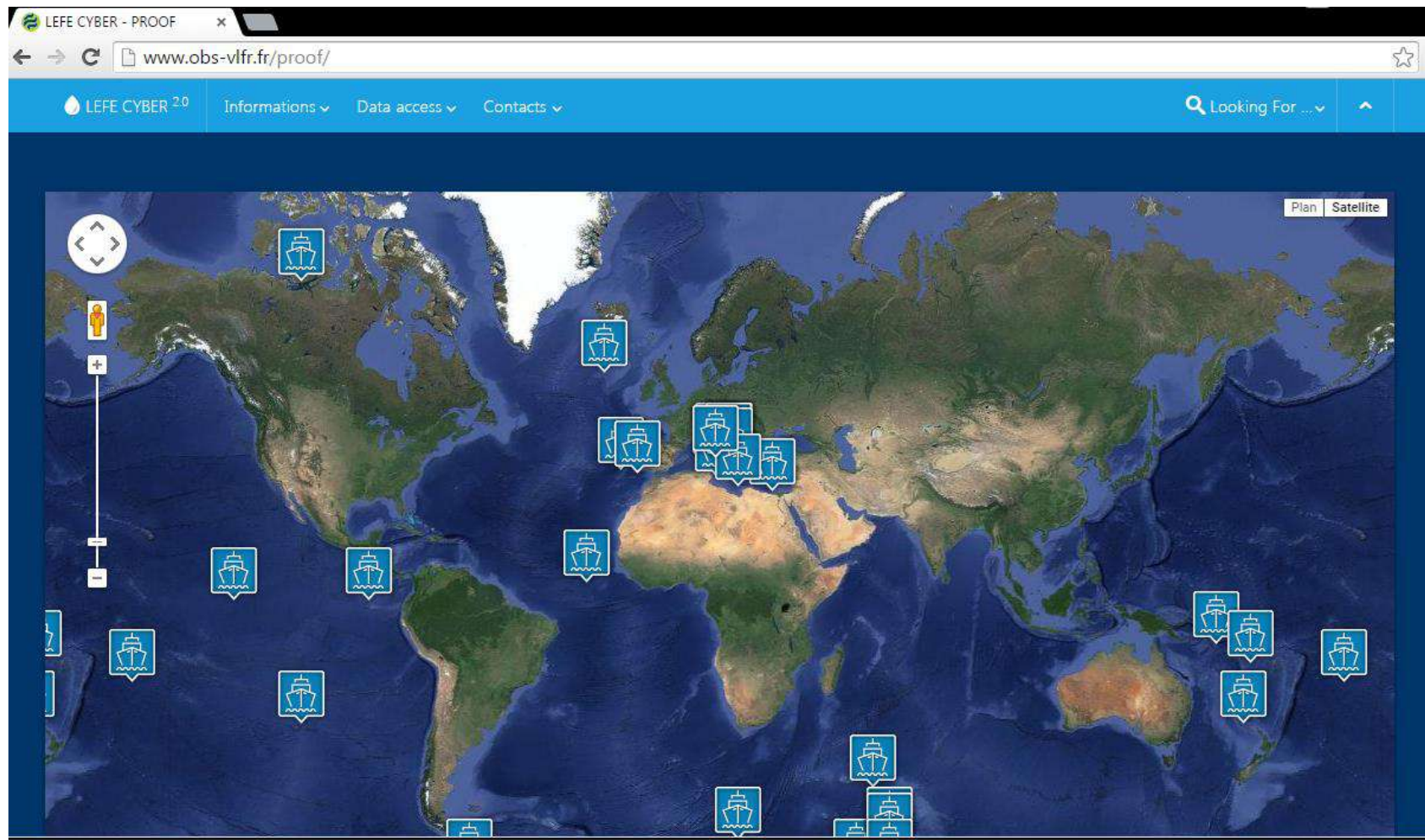
*More than 30 cruises, archived since early eighties*



LEFE CYBER

# Web site LEFE CYBER

<http://www.obs-vlfr.fr/proof/>



## ← Cruises LEFE CYBER

### SWINGS South West Indian Geotraces Section

#### OVERALL

- ▶ Scientific aims
- ▶ Principal Investigators

#### DATA

- ▶ SWINGS FOF DOI

All the data

#### MEETINGS

- ▶ Precruise Meeting, 12-13 March 2020
- ▶ Postcruise Meeting, 9-11 May 2022
- ▶ Postcruise Meeting 2, 22-24 May 2023

#### PRESENTATIONS

- ▶ All presentations

#### PUBLICATIONS

- ▶ Publications

Follow @Gs02Swings

#### SCIENTIFIC AIMS

SWINGS is a multidisciplinary 4-year project fully dedicated to elucidate trace element sources, transformations and sinks along a section crossing key areas of the Southern Ocean (SO). SWINGS aims at 1) establishing the relative importance of sedimentary, atmospheric and hydrothermal sources of trace elements and isotopes (TEIs) in the Indian sector of the SO, 2) investigating the drivers of the internal trace element cycles: biogenic uptake, remineralization, particle fate, and export, and 3) quantifying TEI transport by the Antarctic Circumpolar Current and the complex frontal areas at the confluence between Indian and Atlantic Oceans.

SWINGS will address the following 3 primary questions:

1. How is the relative importance of sedimentary, atmospheric and hydrothermal sources of TEI in the Indian sector of the SO?
2. What are the drivers of internal TEI cycles: biological uptake, remineralization, particle fate and export?
3. Can we quantify TEI transport by the Antarctic Circumpolar Current and the complex frontal areas at the confluence between Indian and Atlantic Ocean?

The SWINGS cruise will start from Durban (ZA) on January 10th, 2021 and end at La Réunion (Fr) on March 8th, 2021. SWINGS has been endorsed as a [GEOTRACES](#).

#### Principal Investigators

Name	Lab.	Status	Topics
Planquette H.	LEMAR	CR	Trace elements
Jeandel C.	LEGOS	DR	Trace elements



# pre cruise, post cruise, all material ....

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DAY 1 <span style="float: right;">⌵</span>		
Name	Presentation	File
T. Ryan-Keogh	Phytoplankton community structure and the Nitrogen Cycle	<a href="#">PPTX File</a>
H. Berthelot	Protist communities and primary production in the biogeochemical regions of the southern Indian Ocean	<a href="#">PPTX File</a>
S. Chowdhury	Fronts Divide Diazotroph Communities in the Southern Indian Ocean	<a href="#">PPTX File</a>
L. Izard	Modelling variability patterns of mid-trophic levels	<a href="#">PDF File</a>
A. Shiller	How SWINGS informs our understanding of the global oceanic gallium distribution	<a href="#">PDF File</a>
M. Leon	Radionuclides along the SWINGS section distribution	<a href="#">PPTX File</a>
C. Jeandel	REE distribution along the latitudinal section la Réunion-Marion Islands	<a href="#">PPTX File</a>
B. Landing	Aerosol chemistry and atmospheric fluxes of bio active trace elements	<a href="#">PPTX File</a>



# Parameters : logs and basic files

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**PRESENTATIONS**

- All presentations

**PUBLICATIONS**

- Publications

[Follow @Gsd23swings](#)

**Log files**

Files	Status	Last Update
Cruise Report	pdf	2021-10-04
Logbook	xlsx	2021-05-04
Journal Rosette Casts (1-> 178)	xlsx	2021-05-04
Sampling Summary Clean Rosette	xls	2022-01-05

**Standard Rosette files**

Files	Status	Last Update
Directory (uncalibrated)	🚫	2021-05-04
All Downcasts (uncalibrated)	🚫	2021-05-04
All upcasts (uncalibrated)	🚫	2021-05-04
All Plots (uncalibrated)	🚫	2021-05-04
Directory CTD-Q2 (calibrated)	✅	2023-03-27
Directory CTD in ODV format, with nutrients, with nutrients and QF	🚫	2023-03-15

**Clean Rosette files**

Files	Status	Last Update
Directory	🚫	2021-05-04



# Parameters

>> A

(no) param	method	sampling	s_f	data	fiche	resp
(143) ADCP (150kHz)	RDI	Continuous horizontal	-			Jeandel C. / Planquette H. / Kestenare E.
(13) ADCP (75kHz)	RDI	Continuous horizontal	-			Jeandel C. / Planquette H. / Kestenare E.
(40037) AI (particulate)	ICP-MS	Clean rosette				Planquette H. / Baudet C.
(35) Alkalinity total (TA)	Potentiometry	Rosette	Stock			Lo Monaco/Metzl/Reverdin/Leseurre/Waelbroeck

# FOF DOI

## French Oceanographic Cruises



### PROSOPE

Type	Oceanographic cruise
Ship	Thalassa
Ship owner	Ifremer
Dates	04/09/1999 (La Seyne-sur-Mer) - 04/10/1999 (Agadir)
Chief scientist(s)	CLAUSTRE Hervé

INSTITUT DE LA MER DE VILLEFRANCHE  
181 Chemin du Lazaret  
06230 VILLEFRANCHE SUR MER  
 <https://www.imev-mer.fr/web/>

DOI [10.17600/99040060](https://doi.org/10.17600/99040060)

Objective Studying the variability of biogeochemical characteristics over a small spatial scale and short time scale. Investigation of chemical and biological processes regulating carbon fluxes, particularly the limiting role played by phosphorous on primary production in the Mediterranean. Validating bio-optic models for primary production. Validation/calibration of SeaWiFS satellite-borne colour sensor. The related project is INSU's PROSCOPE operation in the PROOF (ocean processes and fluxes) programme. The study zone is that of the upwelling off Morocco (31 deg N / 10 deg W) and the Mediterranean (Alboran Sea, western basin, Ionian Sea, Tyrrhenian Sea and Ligurian Sea).



#### How to cite ?

CLAUSTRE Hervé (1999)  
PROSOPE cruise, RV Thalassa,  
<https://doi.org/10.17600/99040060>





# Biogeochemistry DOI

## PUBLISHED DATA

Claustre Hervé, Antoine David, Babin Marcel, Belviso Sauveur, Begovic Milena, Bianchi Micheline, Birdwhistell Scot, Blanchot Jean, Bricaud Annick, Bruyant Flavienne, Carlotti Francois, Conan Pascal, Copin Claire, Dolan John, Garczarek Laurence, Genty Bernard, Guieu Cécile, Guillou Laure, Gomez Fernando, Goutx Madeleine, Gorsky Gabriel, Hooker Stanford, Jacquet Stephan, Lanoiselle Jacques, Lantoine Francois, Leblanc Karine, Leblond Nathalie, Lefèvre Dominique, Marie Dominique, Malara Gilbert, Marty Jean-Claude, Merlivat Liliane, Migon Christophe, Momzikoff André, Morel André, Moutin Thierry, Nicolas Emmanuel, Oubelkheir Kadija, Panagiotopoulos Christos, Partensky Frédéric, Picheral Marc, Prasil Ondrej, Quéguiner Bernard, Raimbault Patrick, Ras Joséphine, Ridame Céline, Sciandra Antoine, Sempéré Richard, Simon Nathalie, Taillez Dominique, Van Wambeke France, Vaultot Daniel (2020). **BIOGEOCHEMICAL dataset collected during the PROSOPE cruise.**  
<https://doi.org/10.17882/71723>



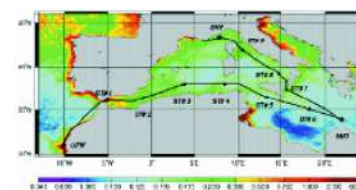
=> Effort de très...très longue haleine

# BIOGEOCHEMICAL dataset collected during the PROSOPE cruise

Date	2020-01
Author(s)	<p>Claustre Herve<sup>1</sup>, Antoine David<sup>1</sup>, Babin Marcel<sup>2</sup>, Belviso Sauveur<sup>3</sup>, Begovic Milena<sup>1</sup>, Bianchi Micheline<sup>4</sup>, Birdwhistell Scot<sup>5</sup>, Blanchot Jean<sup>6</sup>, Bricaud Annick<sup>1</sup>, Bruyant Flavienne<sup>2</sup>, Carlotti Francois<sup>4</sup>, Conan Pascal<sup>7</sup>, Copin Claire<sup>1</sup>, Dolan John<sup>1</sup>, Garczarek Laurence<sup>6</sup>, Genty Bernard<sup>8</sup>, Guleu Cécile<sup>1</sup>, Guillou Laure<sup>6</sup>, Gomez Fernando<sup>9</sup>, Goutx Madeleine<sup>4</sup>, Gorsky Gabriel<sup>1</sup>, Hooker Stanford<sup>10</sup>, Jacquet Stephan<sup>11</sup>, Lanoiselle Jacques<sup>12</sup>, Lantoinne Francois<sup>13</sup>, Leblanc Karine<sup>4</sup>, Leblond Nathalie<sup>1</sup>, Lefèvre Dominique<sup>4</sup>, Marie Dominique<sup>6</sup>, Malara Gilbert<sup>1</sup>, Marty Jean-Claude<sup>1</sup>, Merlivat Liliane<sup>12</sup>, Migon Christophe<sup>1</sup>, Momzikoff André<sup>14</sup>, Morel André<sup>1</sup>, Moutin Thierry<sup>4</sup>, Nicolas Emmanuel<sup>1</sup>, Oubelkheir Kadija<sup>1</sup>, Panagiotopoulos Christos<sup>4</sup>, Partensky Frédéric<sup>6</sup>, Picheral Marc<sup>1</sup>, Prasil Ondrej<sup>13</sup>, Quéguiner Bernard<sup>4</sup>, Raimbault Patrick<sup>4</sup>, Ras Joséphine<sup>1</sup>, Ridame Céline<sup>12</sup>, Sciandra Antoine<sup>1</sup>, Sempéré Richard<sup>4</sup>, Simon Nathalie<sup>6</sup>, Taillez Dominique<sup>1</sup>, Van Wambeke France<sup>4</sup>, Vaultot Daniel<sup>5</sup></p>
Affiliation(s)	<p>1 : Sorbonne Université, CNRS, Laboratoire d'Océanographie de Villefranche, LOV, F-06230 Villefranche-sur-Mer, France  2 : UMI Takuvik, CNRS/Université Laval, Québec, QC Canada  3 : Laboratoire des Sciences du Climat et de l'Environnement, LSCE/IPSL, CEA- CNRS-UVSQ, Université Paris-Saclay, 91191 Gif-sur-Yvette, France  4 : Aix-Marseille Université, CNRS/INSU, Université de Toulon, IRD, Mediterranean Institute of Oceanography (MIO), UM 110, 13288, Marseille, France  5 : Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA  6 : Sorbonne Université, CNRS, UMR7144, Station Biologique de Roscoff, 29680 Roscoff, France  7 : Sorbonne Université, CNRS, Laboratoire d'Océanographie Microbienne (LOMIC), Observatoire Océanologique de Banyuls, 66650 Banyuls/mer, France  8 : Institut de biosciences et biotechnologies d'Aix-Marseille, Centre CEA Cadarache, Saint Paul lez Durance, France  9 : Carmen Campos Panisse 3, E-11500 Puerto de Santa María, Spain  10 : NASA Goddard Space Flight Center, Greenbelt, MD, USA  11 : USMB - INRAE, UMR CARTELE, 74200 Thonon-les-Bains, France</p>

Click  
to download  
the data

DATA



The PROSOPE cruise benefited from SeaWiFS scheduling in LAC mode (1-km resolution) for real-time chlorophyll image support.

## Download metadata

TXT, RIS, XLS, RTF, BIBTEX

## Oceanographic cruises

PROSOPE

## References

Pagès R., Baklouti M., Barrier Nicolas, Richon C., Dutay J.-C., Moutin T. Pagès R., Baklouti M., Barrier Nicolas, Richon C., Dutay J.-C., Moutin T. (2020). Changes in rivers inputs during the last decades



LIFE CYBER

## DMP

- Utilisation de l'outil OPIDOR (Template ANR, ERC)
- ANR SWINGS
  - Spécificités GEOTRACES (QC, Format, metadata)
  - Ressources LEFE-CYBER (infrastructures, personnels)
  - Bancarisation BODC, SISMER

=> Pas vraiment de retour de l'ANR (juste un accusé réception )
- ANR APERO
  - Spécificités Biogéochimie
  - Gliders (français , autres ? )
  - Argo
  - OMICS (???)
- ERC Refine (Léger)
  - Argo
  - Copernicus
  - Biogéochimie



## En résumé

- Support au programme LEFE-CYBER
- Best effort (Je fais ce que je peux pour contenter mes collègues)
- RH = 0.5 ETP
- Relais vers autres bases => SISMER, GEOTRACES  
tout en gardant ce que personne ne veut
- DOI (à long terme)