

Southern Ocean & Climate



Dirigé par

Stéphane Blain, Hervé Claustre, Sabrina Speich

Soutenu par



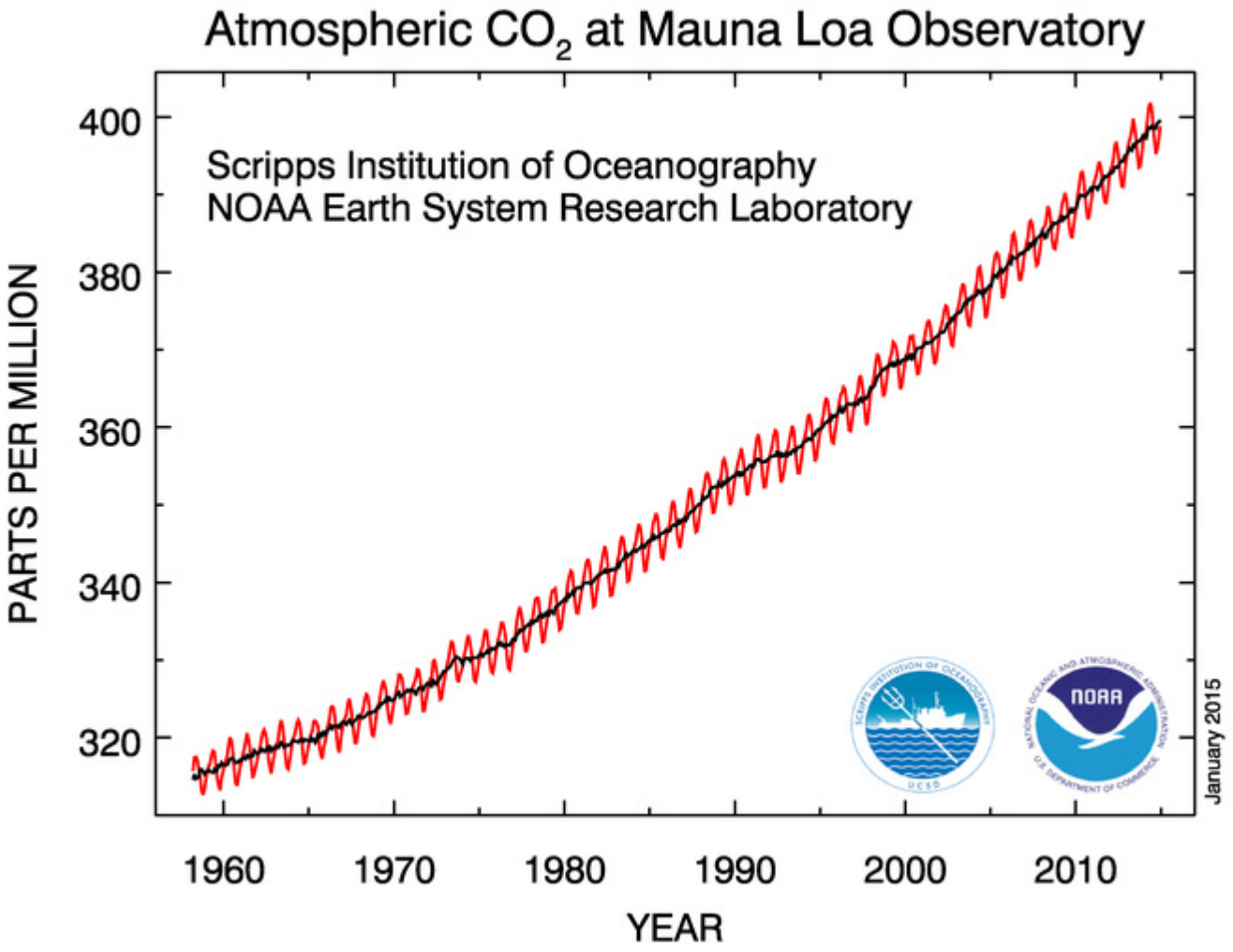
The logo for 'SO CLIM' is displayed in large, white, sans-serif capital letters. The 'O' in 'SO' is replaced by a circular graphic containing a blue silhouette of the continent of Antarctica, with two white arrows forming a clockwise cycle around it. The word 'CLIM' is positioned directly below 'SO'. The background of the entire image is a dramatic, dark photograph of a stormy ocean with white-capped waves under a cloudy sky.

SO CLIM

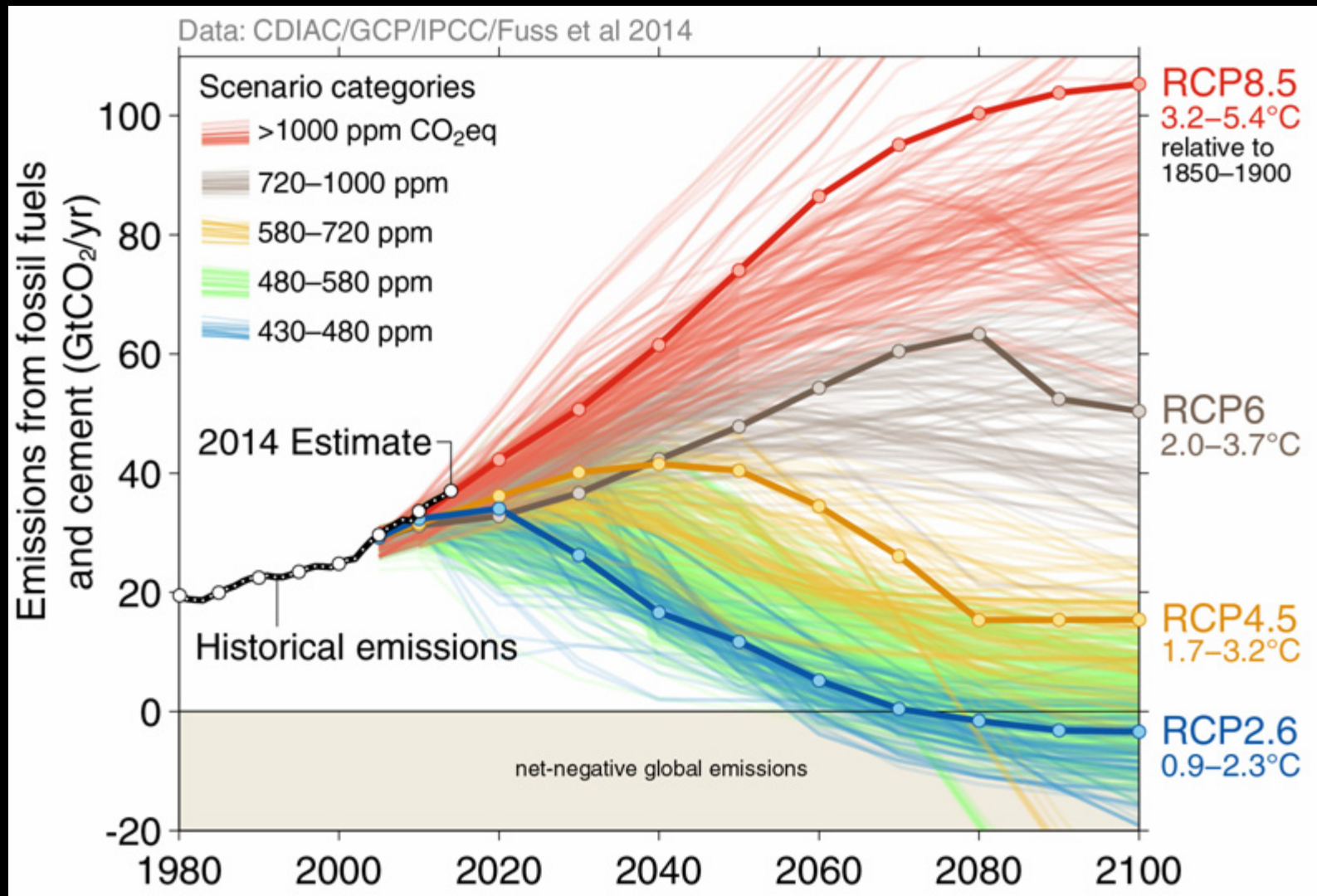
**Collecter des données inédites
sur l'Océan Austral
dans le contexte du
changement climatique**

**Faire découvrir au grand
public l'Océan Austral et
son lien avec le climat**

Quel lien entre climat et Océan Austral ?



Quel lien entre climat et Océan Austral ?



Quel lien entre climat et Océan Austral ?



$7.7 \pm 0.5 \text{ PgC y}^{-1}$

+

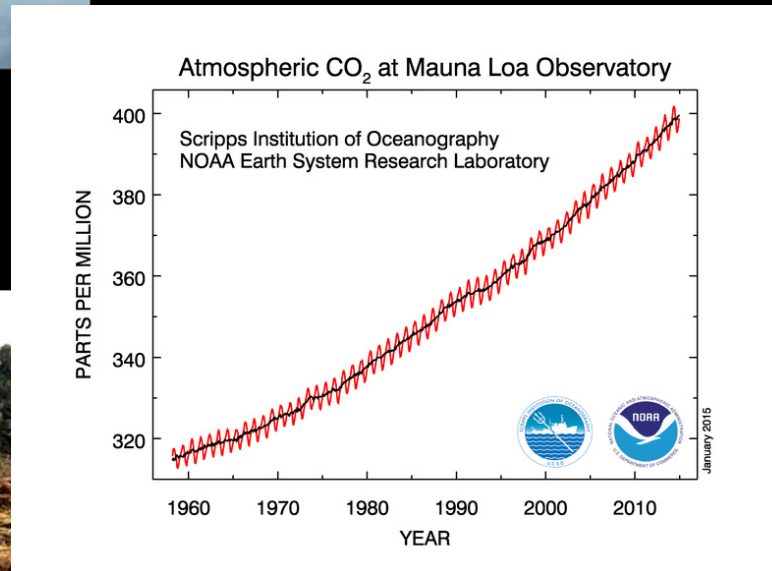


$1.1 \pm 0.7 \text{ PgC y}^{-1}$

Devenir des émissions de CO_2 (2000-2009)

$4.1 \pm 0.1 \text{ PgC y}^{-1}$

47%



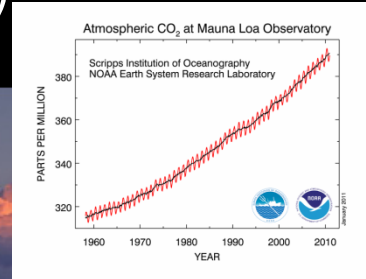
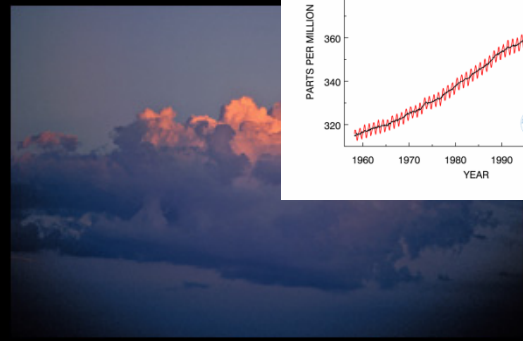
Devenir des émissions de CO₂ (2000-2009)



$7.7 \pm 0.5 \text{ PgC y}^{-1}$

+

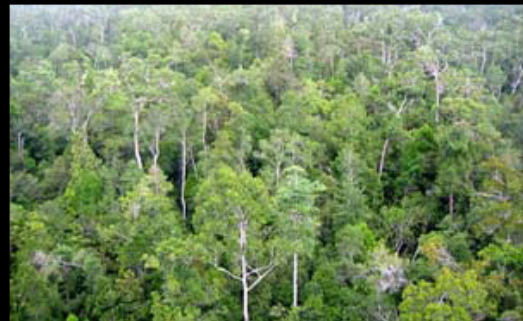
$4.1 \pm 0.1 \text{ PgC y}^{-1}$
47%



$1.1 \pm 0.7 \text{ PgC y}^{-1}$

2.4 PgC y^{-1}
27%

Calculated as the residual of all other flux components

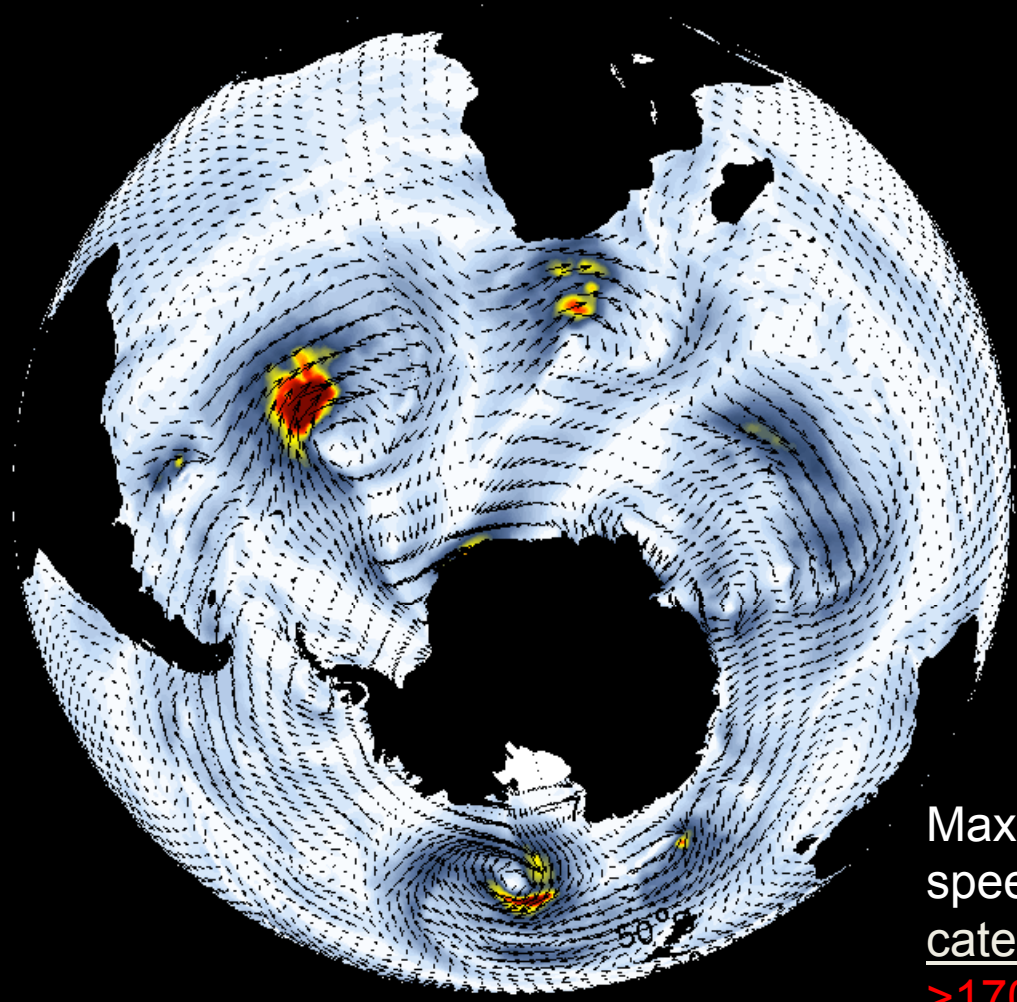


$2.3 \pm 0.4 \text{ PgC y}^{-1}$
Average of 5 models
26%





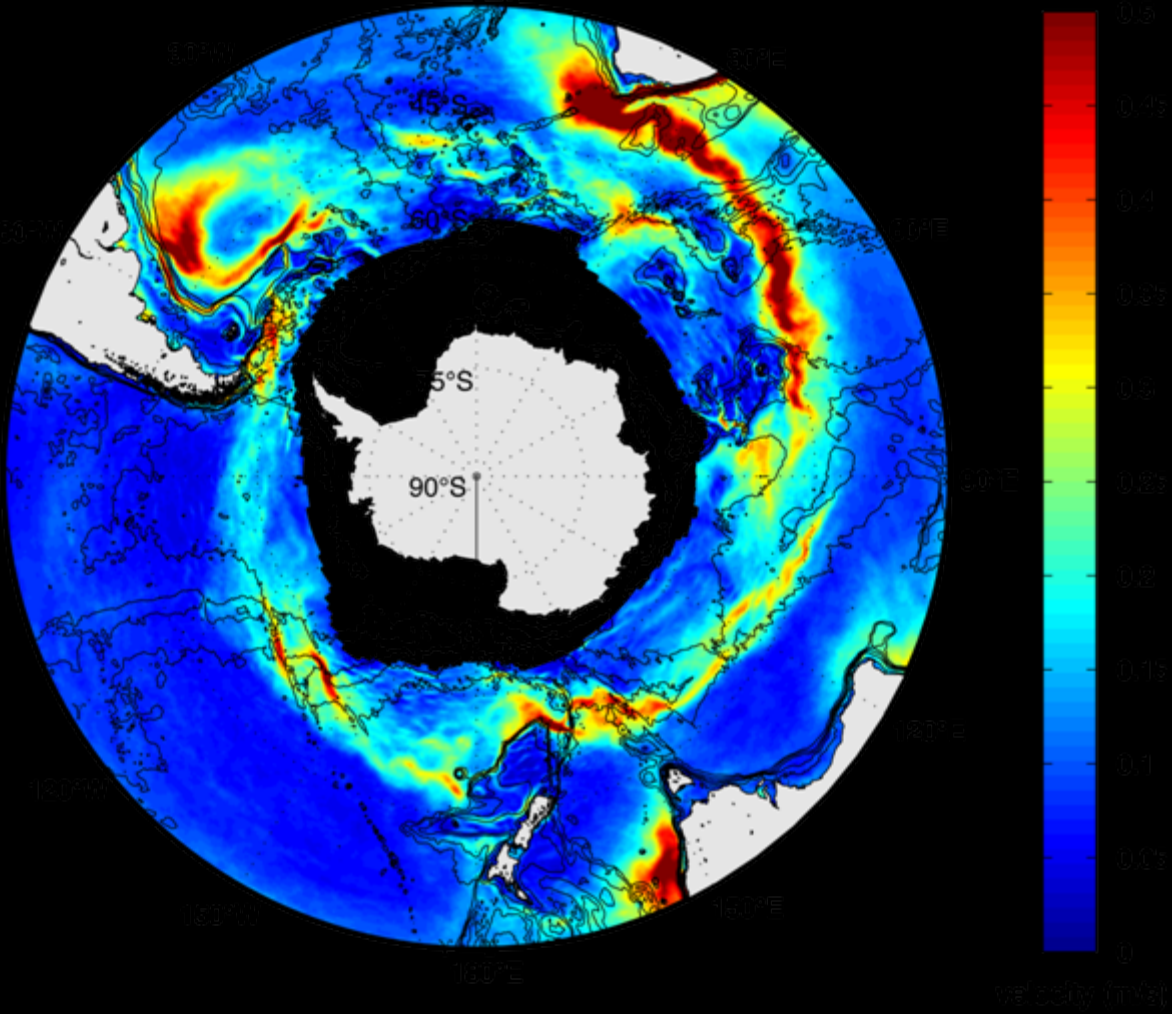
Wind Stress [N.m^{-2}]: 2007-01-06 12hrs

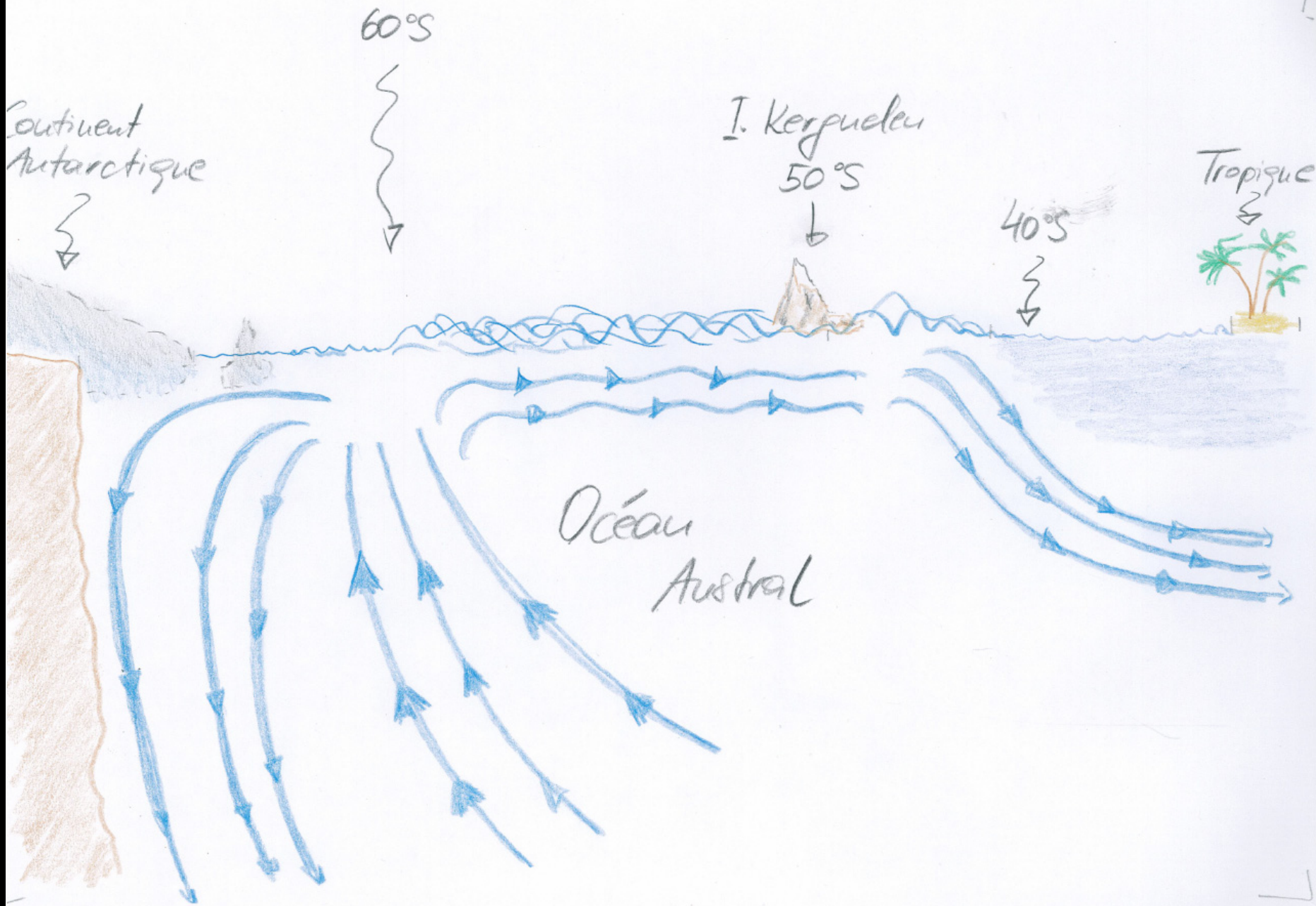


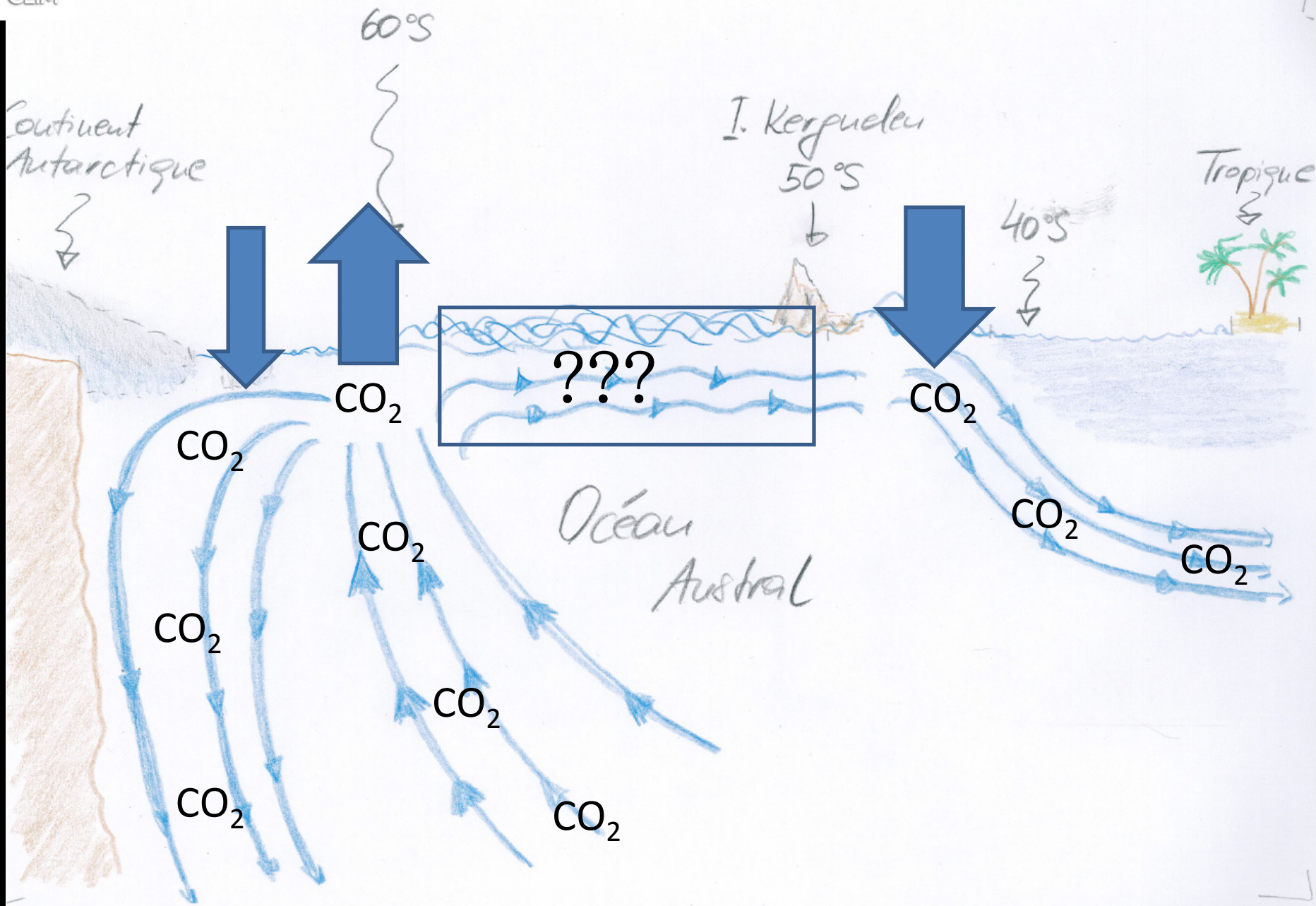
Max 6hr average wind speeds equivalent to category 3 hurricane
>170 km.hr⁻¹



Le courant circumpolaire antarctique







CO_2 air

0m



CO_2 eau



Phytoplancton
(Carbone)

100m

POMPE BIOLOGIQUE DE CARBONE INEFFICACE

CO_2 (stocké)



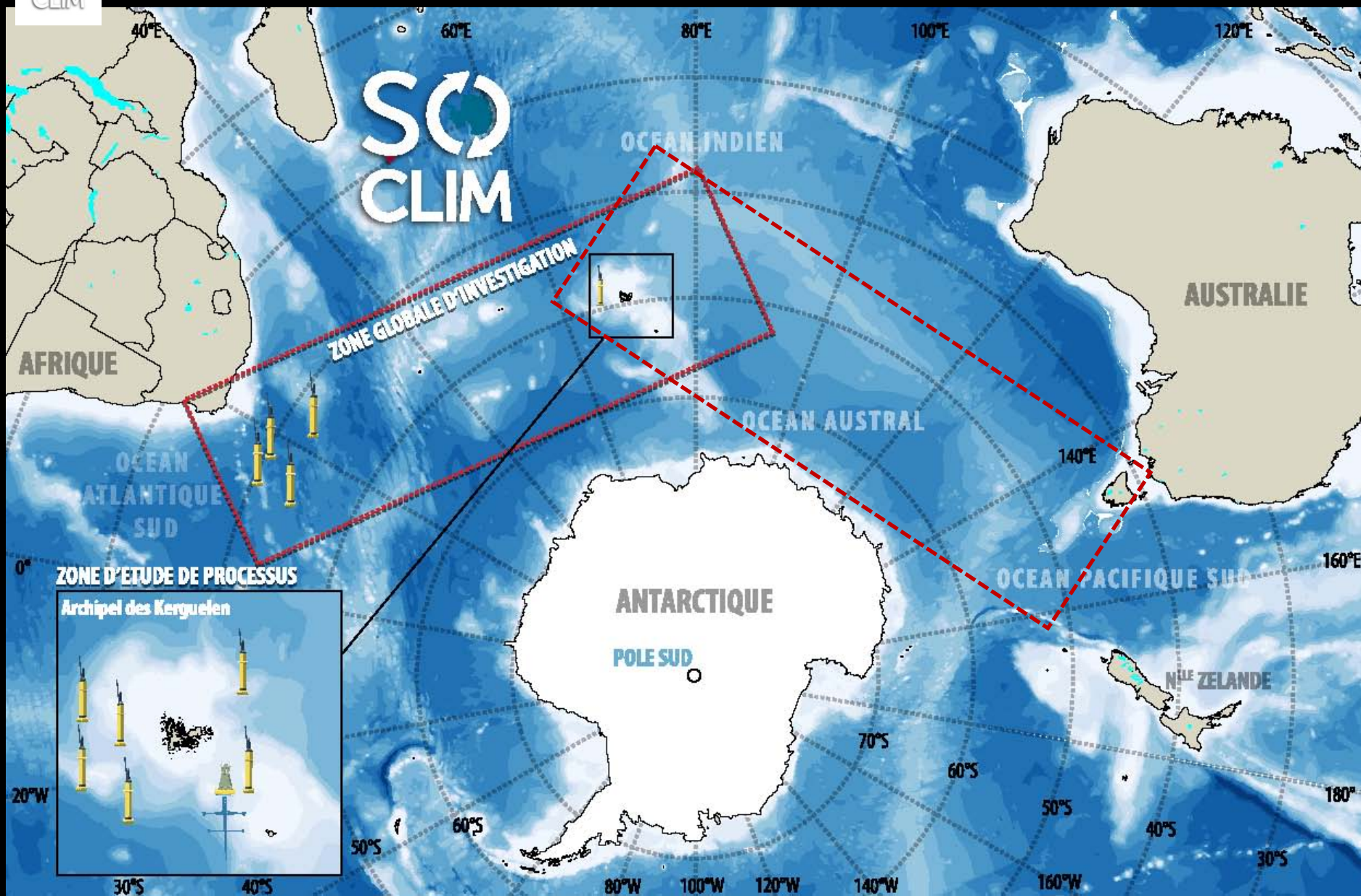
Déchet

Sédiment
(Carbone stocké)

4000m

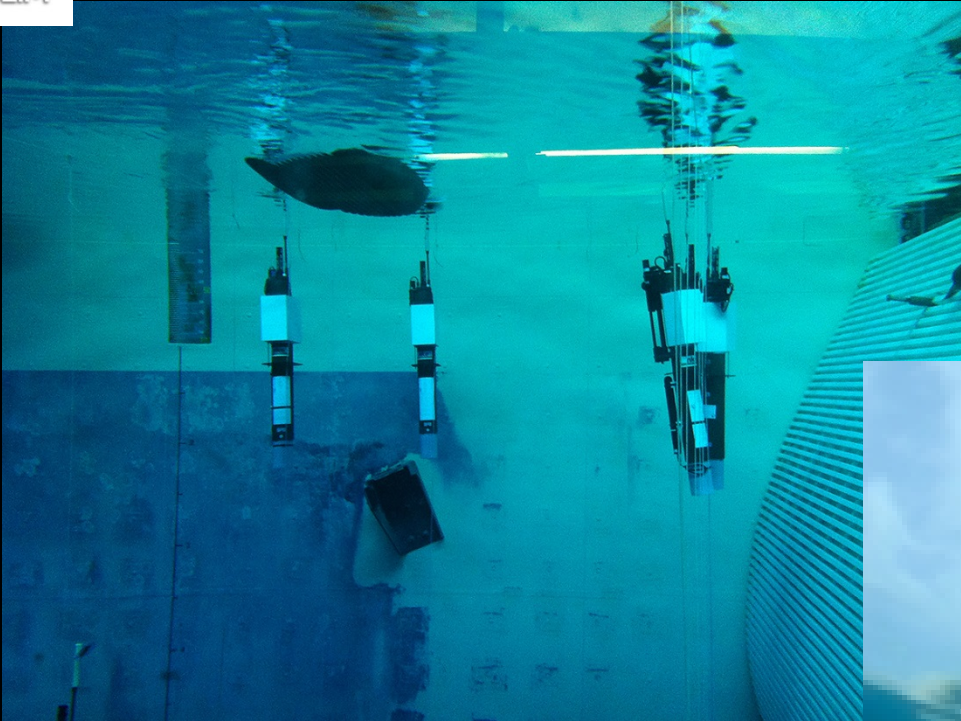


Un contexte international de collaboration





Les Flotteurs Bio - Argo

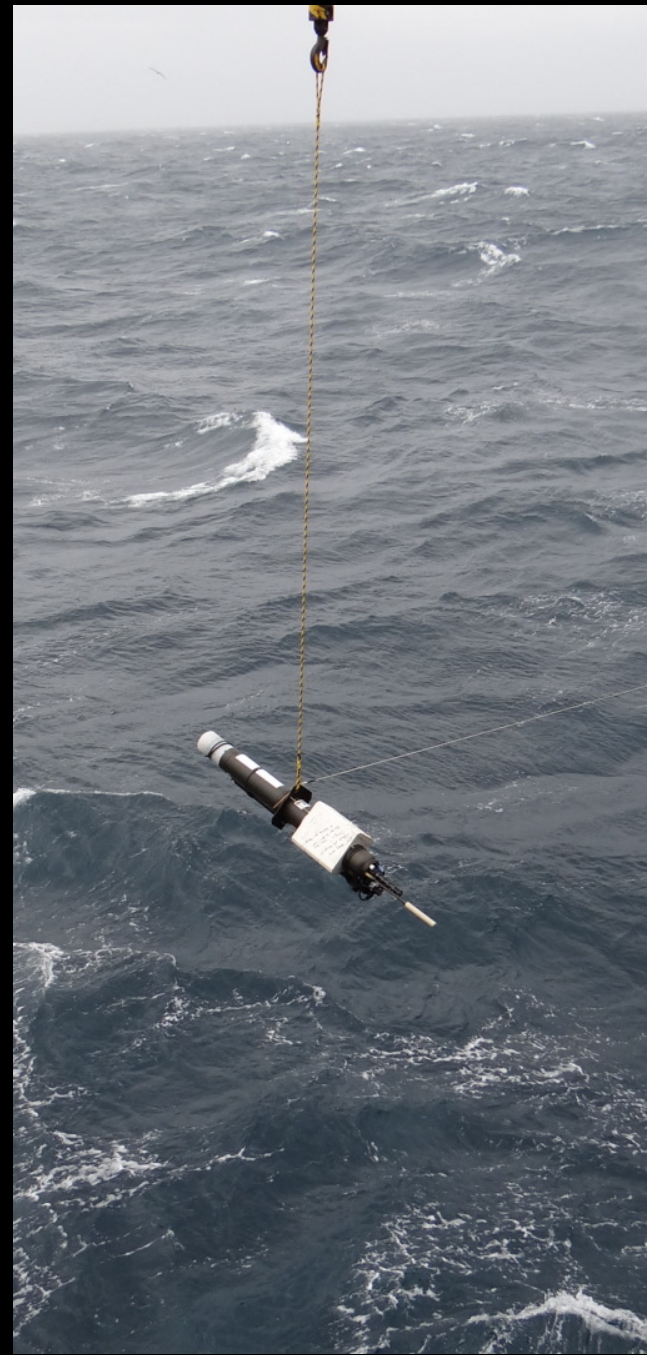




Instrumentation
Innovante

Flotteurs Bio-argo
dans les 50^{ème}





Visualisation en temps réel des données

The interface is divided into several sections:

- Search:** A search bar with a "Reset" button.
- Filters:** Dropdown menus for "Platforms", "Geographic area", "Project", and "Status".
- Background maps:** A dropdown menu for selecting map styles.
- Platform List:** A list of observation platforms with status indicators (green for active, grey for inactive).

Platform ID	Status
SOUTH_ATL_STG_NOA_lovbio003b	Active
SOUTH_ATL_STG_OA_lovbio005b	Inactive
SOUTH_ATL_STG_NOB_lovbio008b	Inactive
NORTH_ATL_STG_NOA_lovbio009b	Active
NORTH_ATL_STG_OB_lovbio010b	Active
NORTH_ATL_STG_NOB_lovbio006b	Active
NORTH_ATL_STG_A_lovbio007b	Inactive
MED_NWE_NOA_lovbio001i	Inactive
MED_ION_NOA_lovbio016c	Active
MED_NWE_A_lovbio035b	Active
MED_NWE_NOA_lovbio017b	Inactive
MED_SWE_A_lovbio015c	Active
NORTH_ATL_ICB_NOA_lovbio038b	Inactive
NORTH_ATL_ICB_NOA_lovbio020b	Inactive
NORTH_ATL_ICB_A_lovbio022b	Active
NORTH_ATL_ICB_A_lovbio020b	Inactive
- Map:** A satellite map of the Atlantic Ocean showing observation tracks and platform locations. The map includes a scale bar (50 km) and a "Conditions d'utilisation" link.
- Map Controls:** A vertical toolbar on the left side of the map for navigation and zooming.
- Map Labels:** "Google" and "Imagerie ©2015 NASA, TerraMetrics" are visible on the map.
- Map Legend:** A legend in the top right corner of the map area with "Plan" and "Satellite" options.
- Map Coordinates:** Coordinates -51.0345 and 64.9402 are displayed in the bottom right corner of the map area.
- Map Date/Time:** The date and time "26/1/2015 07:51:36" are displayed in the bottom center of the map area.
- Map Footer:** The text "Created Hauwell Studios / Oceanographic Autonomous Observations (OAO)" is displayed at the bottom of the interface.

Search

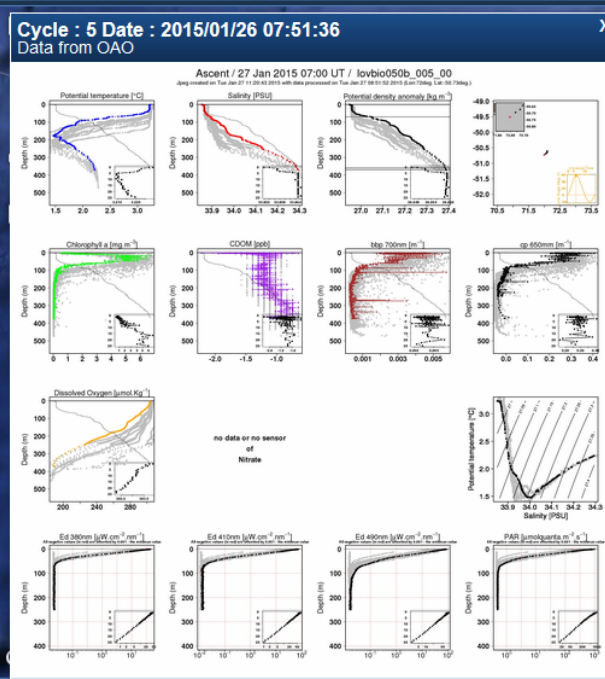
Platforms Geographic area Project Status

Background maps

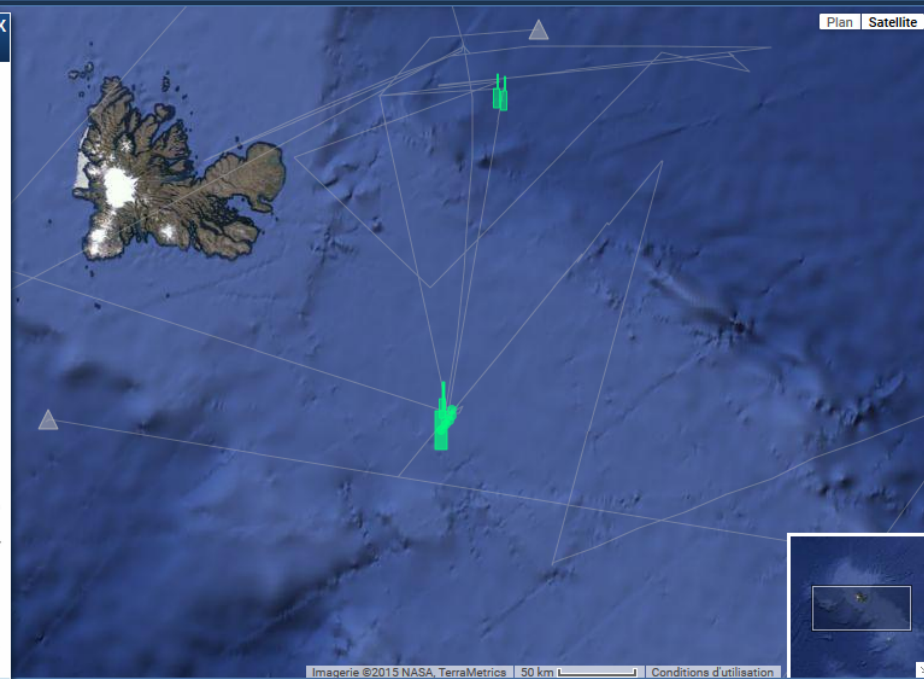
- SOUTH_ATL_STG_NOA_lovbio003b
- SOUTH_ATL_STG_OA_lovbio005b
- SOUTH_ATL_STG_NOB_lovbio008b
- NORTH_ATL_STG_NOA_lovbio009b
- NORTH_ATL_STG_OB_lovbio010b
- NORTH_ATL_STG_NOB_lovbio006b
- NORTH_ATL_STG_A_lovbio007b
- MED_NWE_NOA_lovbio001i
- MED_ION_NOA_lovbio016c
- MED_NWE_A_lovbio035b
- MED_NWE_NOA_lovbio017b
- MED_SWE_A_lovbio015c
- NORTH_ATL_ICB_NOA_lovbio038b
- NORTH_ATL_ICB_NOA_lovbio020b
- NORTH_ATL_ICB_A_lovbio022b

AUSTRAL_SIN_KER_OB_lovbio050b
Other

Project : remOcean
Deployment : Invalid Date
Life time : 5 days
Cycles : 7



<http://www.oao-obs-vlfr.fr/bioargo/PHP/lovbio050b/lovbio050b.html>



Les Mouillages instrumentés

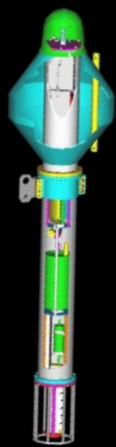




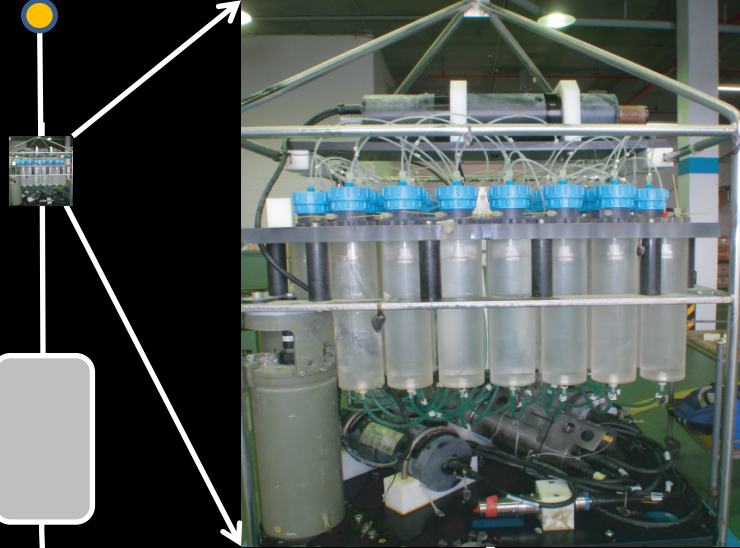


Instrumentation Innovante

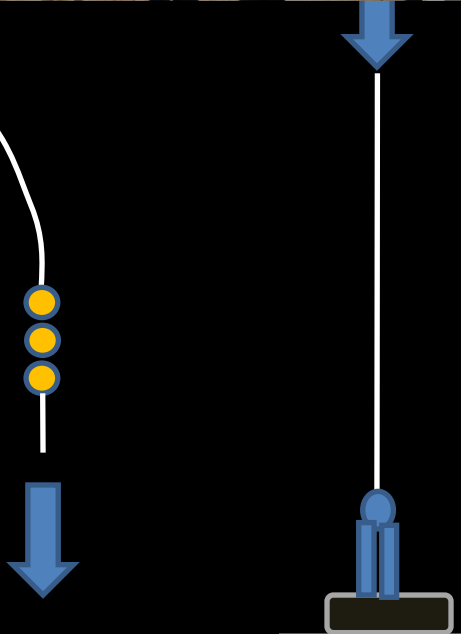
0-15 m



40 ± 1 m



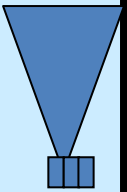
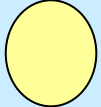
Mouillage instrumenté dans les 50^{ème}
(Déploiement Oct . 2016)



Fond

surface

flotteur

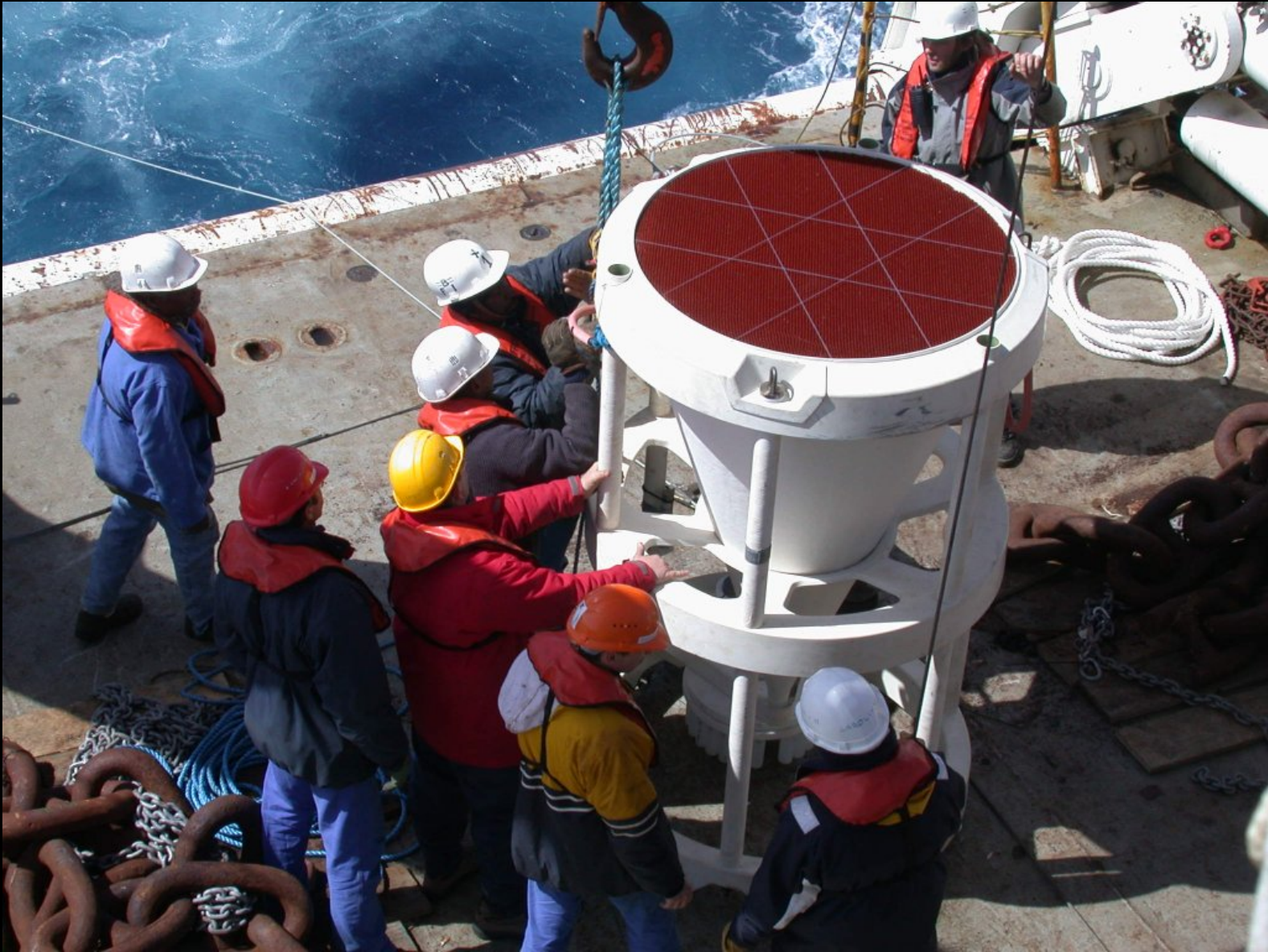


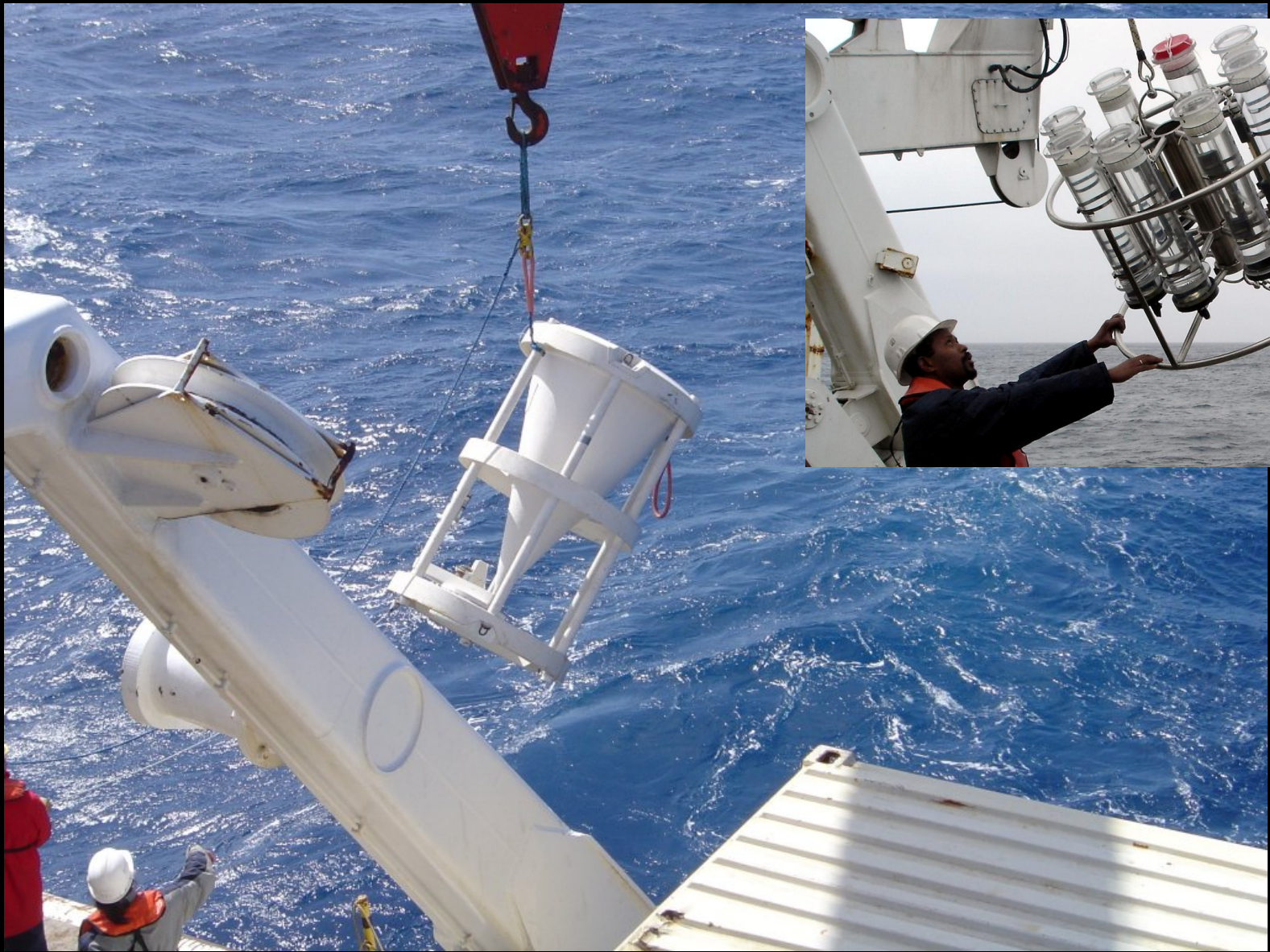
Piege à particules



fond











La communication grand public





Pourquoi observe-t-on l'océan ...



Quels sont les outils d'observation ...



Comment les outils sont-ils utilisés ...

Observation des océans - mes trois questions





*" Partagez la recherche des océanographes
& découvrez nos océans ! "*



> à propos news thèmes wik'océan carte ressources quizz et jeux

navigation: news

Rechercher

02 Jui

JOURNÉE « ADOPT A FLOAT » - 2014 : LES COLLÉGIENS PRÉSENTENT LEURS TRAVAUX

Publié dans [news 2014](#)

Fin Juin, les élèves engagés dans le projet « adopt a float » ont rendez-vous au Laboratoire d'Océanographie de Villefranche-sur-Mer pour présenter leurs travaux effectués pendant cette année scolaire. Les nombreuses présentations annoncées promettent une journée « colorée » : communications orales, vidéos, posters, expériences, poèmes et chansons

...



EN SAVOIR PLUS...



adopt a float

