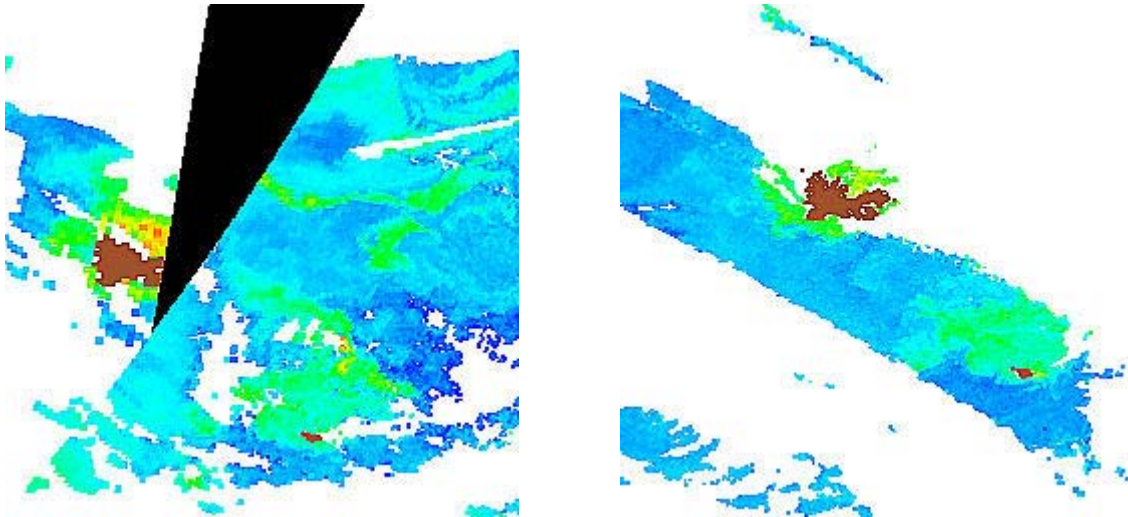


Minute of KEOPS meeting in marine station Endoume (Marseille) . 2-3 march 2004.

Participants:

Amouroux D., Armand L., Belviso S., Blain S., Carlotti F., Christaki U., Claustre H., Dehairs F., Diaz F., Gorsky G., Guigue C., Guillerm C., Jacquet S., Jeandel C., Laes A., Leblond N., Lefèvre D., Losno R., Mosseri J., Obernosterer I., Park Y., Pollard R., Quéguiner B., Radakovitch O., Reverdin G., Sarthou G., Timmermans K., Uitz J., Van Beek P., Van Wambeke F., Veron A., Vincent D., Viollier E., Vong L.

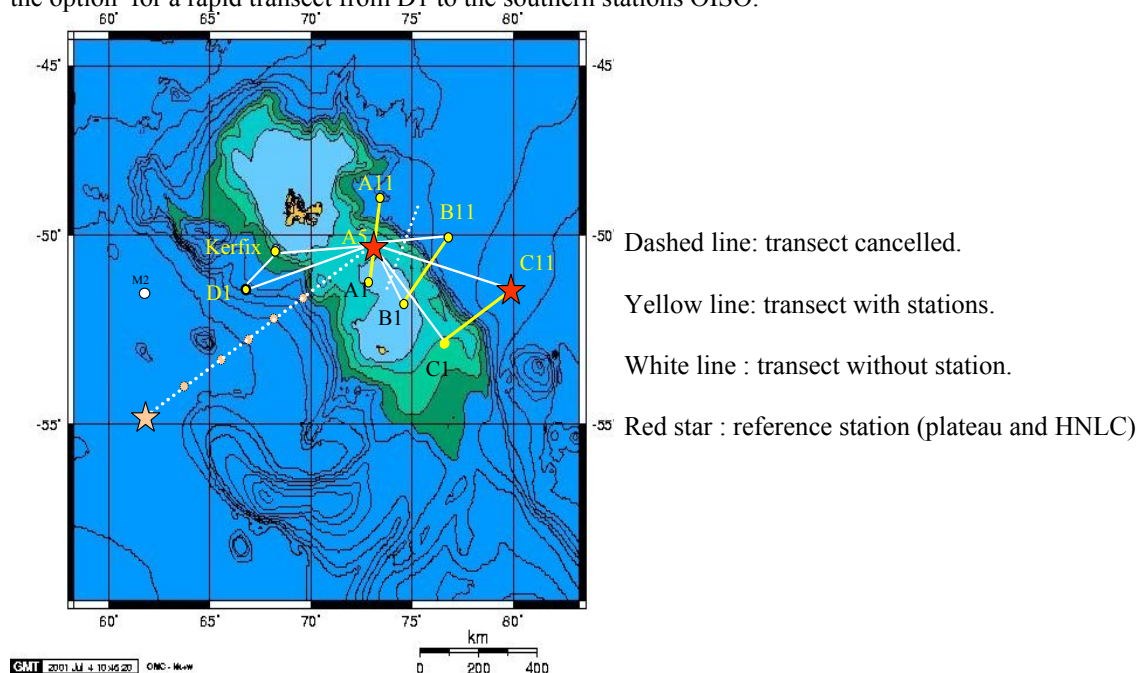
I hope you enjoyed the meeting and the sunny weather in Marseille. Just at the same time as the meeting took place, the weather was also sunny at Kerguelen and Heard. We have got now one of the most beautiful seawifs individual scene in this area (see below) .



This can help us to define more precisely our new strategy.

Yes, that is one of the major output of the meeting : the scientific objectives of keeps stay the same but the strategy at sea is modified. Following a fruitful and friendly discussion between physicists, geochemists and biogeochemists it has been decided to focus our efforts on the eastern part of the plateau.

One of the major reason is that the new strategy will permit to better study the « pristine water » before its enrichment by contact with the margin. Consequently the old transect from the plateau to the HNLC station D6 has been cancelled. The new reference HNLC station will be located around 80°E and 52°E. We also keep open the option for a rapid transect from D1 to the southern stations OISO.



Every participant agreed with this new strategy. Then, we discussed more in details the possible options to visit the different stations and transects. Here also we succeeded in getting quite rapidly a good agreement. The details of the new strategy will be soon available. This can be still modified ... but moderately.

Scientific talks.

All the powerpoint presentations will be soon available at the keops website :

<http://www.obs-vlfr.fr/proof/vt/op/ec/keops/keo.htm>

The last presentation of the day (OBEX 4 : viruses) was cancelled, because Markus was ill. However I have now received his presentation and it will also be posted on the web site.

Practical preparation of OBEX:

For each OBEX we have identified PIs and persons interested in these experiments.

OBEX 1: PI: Bernard, interested : Klaas, Leanne, Sauveur, Urania, Fred, David, Julie, Julia, Brian, Phil(?), Dave(?)

OBEX 2 : PI Geraldine : interested, dorothee, francois, sauveur, ingrid, david, stephane.

OBEX 3: PI Ingrid : Geraldine, Urania, Sauveur, David, Loes(?), Cliff(?)

OBEX 4: PI Markus, interested : Urania, Geraldine, Stéphane

The PI is responsible for :

- Contacting the persons interested (mailing list)

- Organising the experimental set up of the experiment(s).

- Others issues to be organised by the PI.

 - For all these experiments the clean seawater will be provided by the iron team. There is a need to know roughly the volume of seawater to be pumped for each experiments. (surface water with fish , deep water with 6-Goflo rosette).

 - Net towing for zoo....

 - Incubators see below.

Underway sampling with fish during transects.

During the transects A5-C11 and C1-A5 the Marion will steam at reduced speed (5 knots) to allow deployment of the fish. Depending on the weather conditions, the fish will also be deployed along other transects (including La reunion-Kerguelen).

Sediment traps:

2 moorings at A5 with the trap at 400m (bottom around 600-800m).

1 mooring at C11 (precise position still to be defined) two traps 1000 m and 4000m(?)

preparation of the moorings before the cruise(INSU), on board : preparation of the cups : Nathalie or lisette(?) depending on who will be on board.

Drifting trap at A5 and C11 depending on weather conditions and current velocity at C11. Two different lines (Trull's and INSU). Still to be co-ordinated.

Request for rooms at constant temperature:

Ambient temperature : Dominique for O₂, Young for salinometer. If possible in one of the two rooms dedicated to OISO measurements.

In situ surface mixed layer temperature (5-10°C): Ingrid, urania, francois, geraldine, dorothee.

In situ surface mixed layer temperature (5-10°C) plus light for culture of phytoplankton : Klaas, bernard?, (Klaas will bring lamps)

In situ deep water temperature : Eric Violier for sediment cores, Ingrid.

Deck incubators:

Incubators for biological production : 6 different light levels. fred

Incubator for OBEX 1: ??

Incubator for OBEX 2: geraldine

Incubator for OBEX 3: ingrid

Incubators for OBEX4 : ???

Aerosol sampling.

Sampling at Kerguelen for soil or aerosol?? To be discussed and organised if necessary.
On board : what is the best place for the sampler. Probably above the bridge.

Equipments:

National equipment:
DT INSU.
Radioactivity counter (LEMAR)
MQ system (LMGEM).

Laboratory equipment
to be checked: how will bring
Fluorimeter for Chl-a on board.
Fluorimeter for NH4 and H2O2 determination.
Spectrophotometer.
Binocular X 2
Equipment for microcentrifugation (microbiol.)

Gases: to be organised by Sauveur.

Radioactivity.

Send rapidly to Bernard Queguiner the type and amount (μCi) of radioisotope you will bring on board for the cruise.

N2 liquid.

Request to be updated. (send your need to Stéphane)

Need for fridge and freezer on the marion dufresne

Send your request (volume, temperature) to Stéphane

Sample shipping.

Each French participant have to estimate rapidly the volume and condition of transport (temperature) for shipping back the samples to France.

Project and data management.

Every scientist involves in KEOPS commits on following the rules for the data management (availability of data).

KEOPS 1	acquisition	Availability with restricted access to keops group	Open access
On board measurement	Jan Feb 2005	Sept 2005	Sept 2007
Laboratory measurement	Mar dec 2005	Mar 2006	Sept 2008

Data base construction:

First step : just after the meeting : fill out the excel spreadsheet and return it to stephane

Second step : within the coming months : metadata base: fill out the template as soon you receive it and return it to Stéphane

Third step: during the cruise. Update of both files

KEOPS 2:

This cruise will be mainly dedicated to the recovery of the moorings but doing some science should be possible.
A proposal will be submitted to PROOF next fall.