

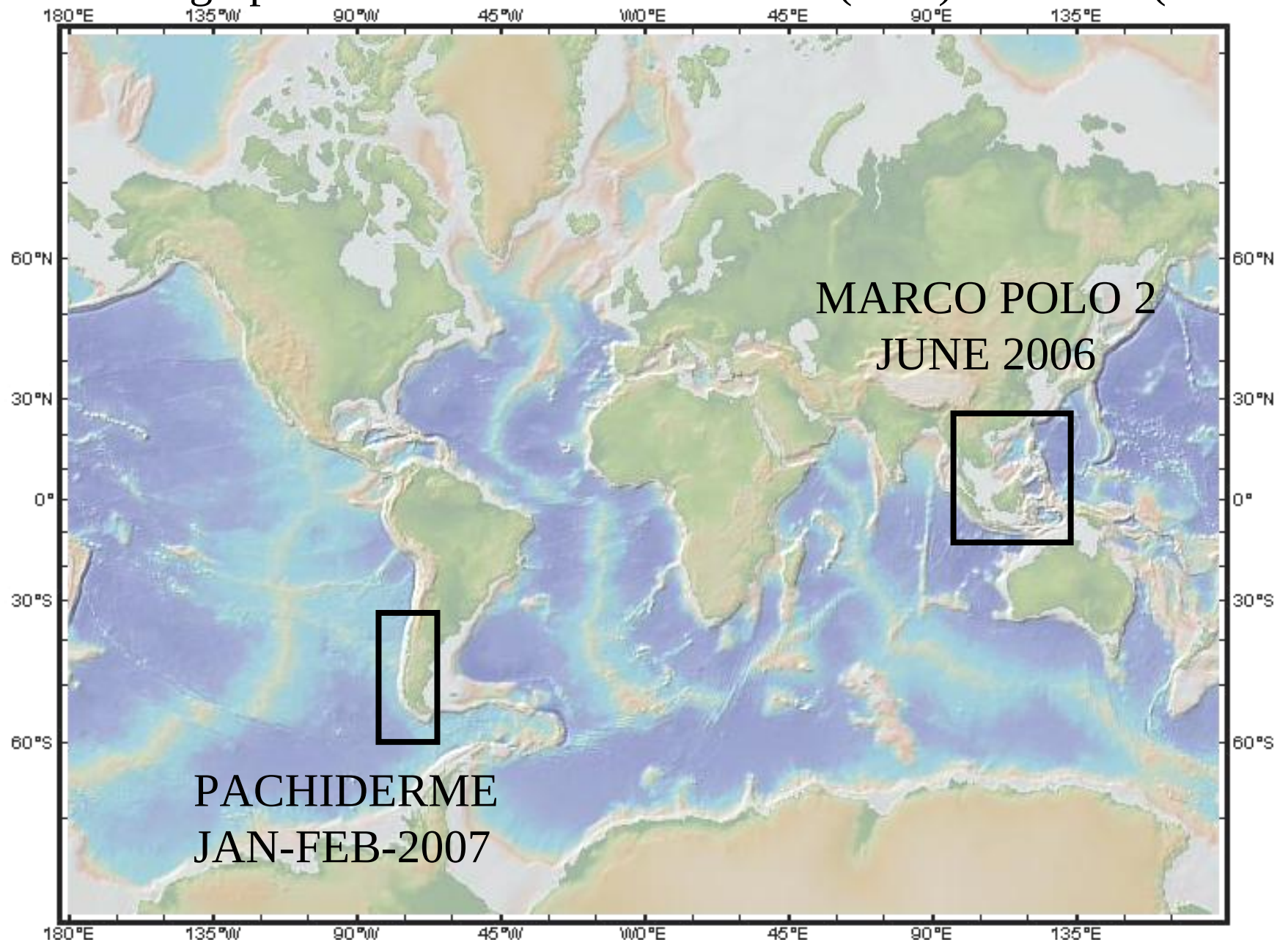
Gift-at-Sea:
a Virtual Participation to two Oceanographic
Cruises of the R/V Marion Dufresne

Catherine Kissel and Carlo Laj
LSCE,
Gif-sur-Yvette, France

QuickTime™ et un
décompresseur TIFF (LZW)
sont requis pour visionner cette image.



Two oceanographic cruises scheduled in 2006 (June) and 2007 (Jan.-Feb.)



MARCO POLO 2

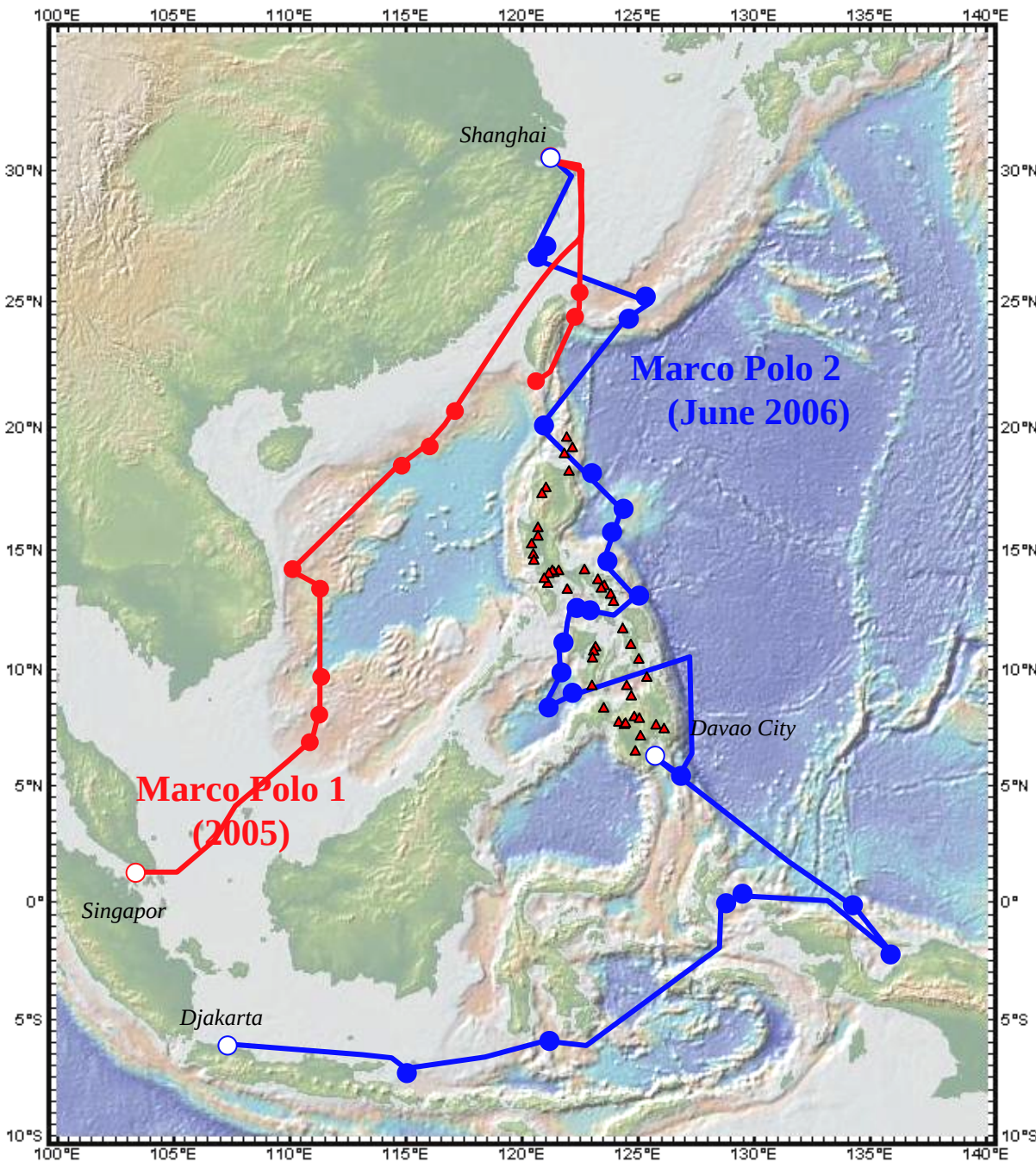
Shanghai - Davao - Djakarta

Chief Scientist: Carlo LAJ

Participating laboratories:

- LSCE, Gif-sur-Yvette, France
- Tongji University, Shanghai, China
- University of the Philippines, Manilla
- Academia Sinica, Taiwan
- University of Kiel, Germany

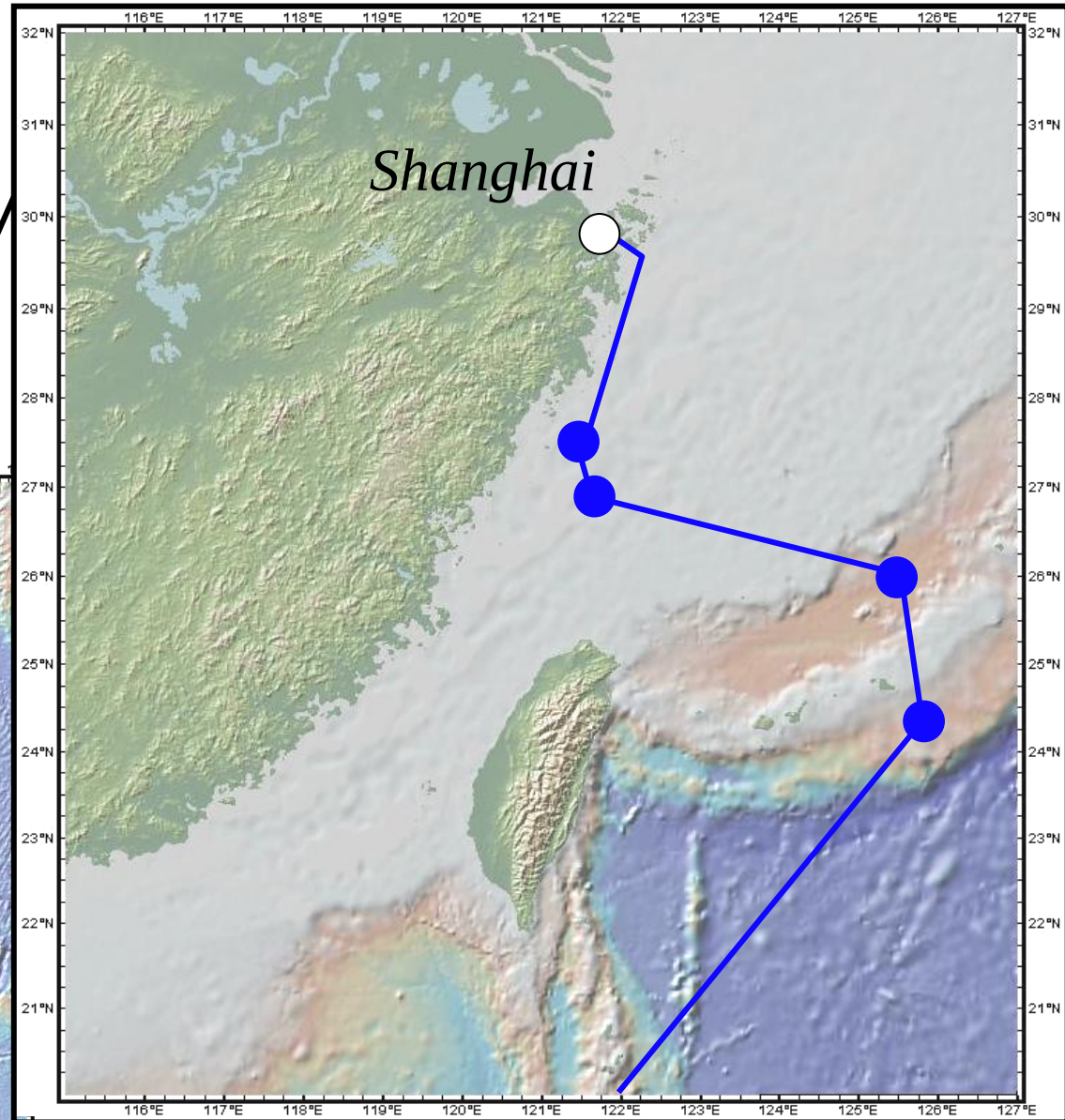
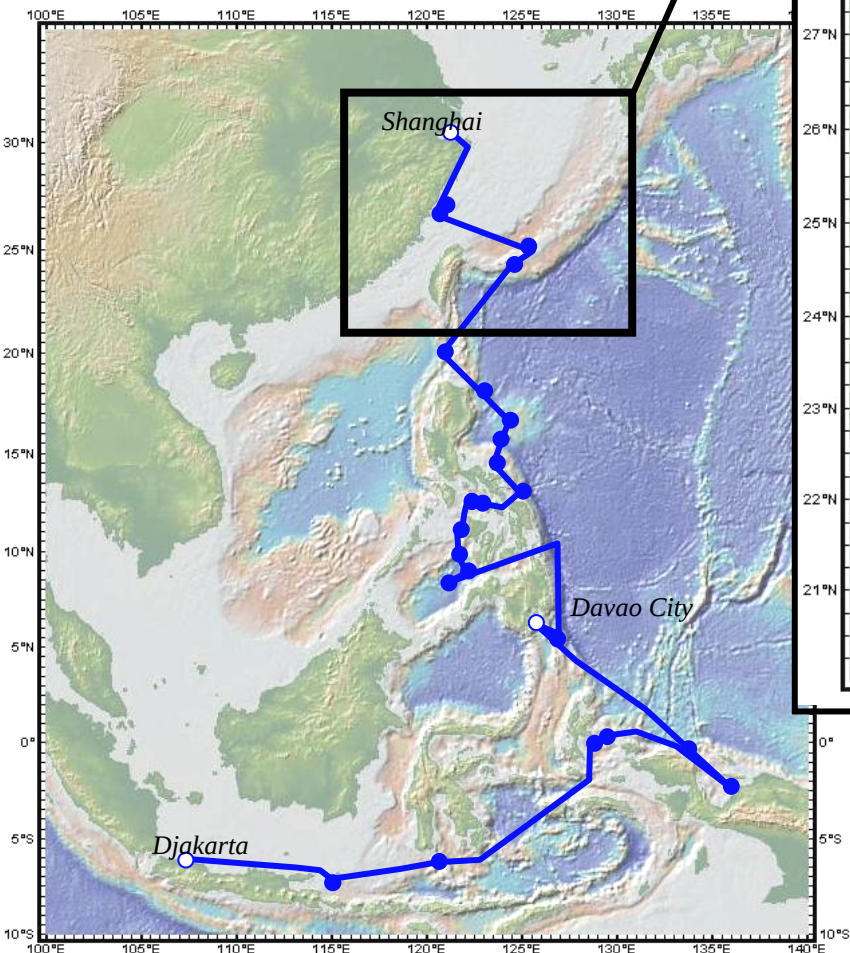
Route.....



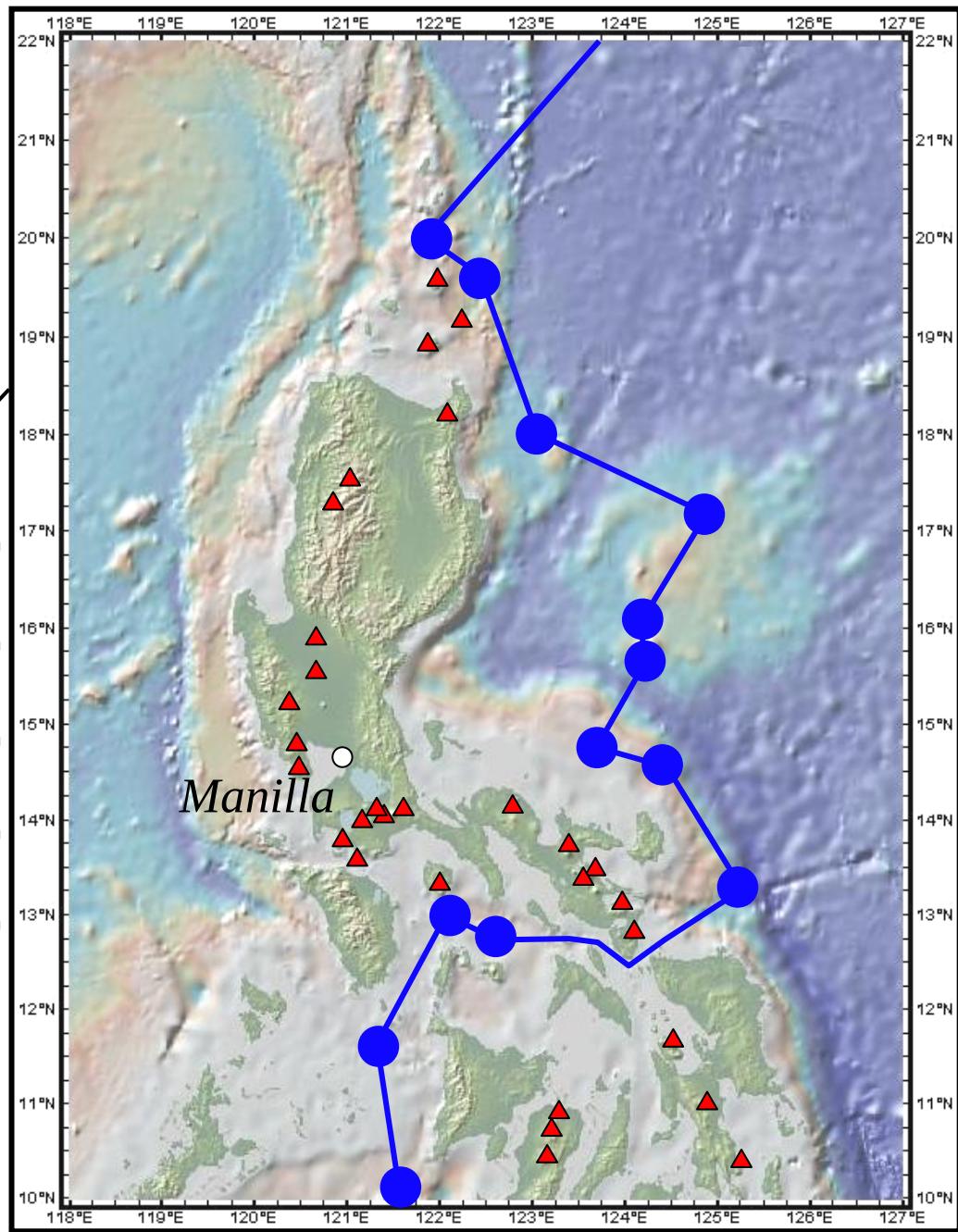
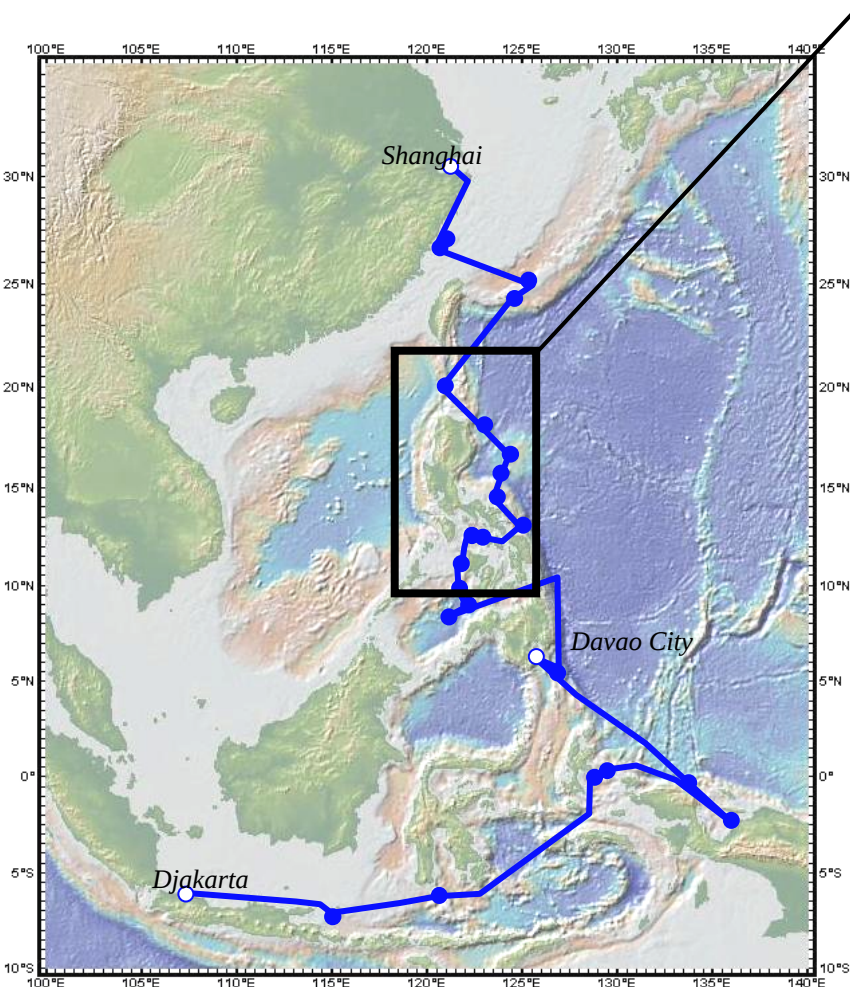
Scientific objectives

- to reconstruct the history of the Kuroshio current in the North and its formation in the South, in relation with glacial-interglacial cycles (Monsoon)
- to reconstruct the paleoclimatic conditions in the Indonesian Throughflow in the late Pleistocene and Holocene
- to reconstruct the Holocene history of the Yangtze River and its catchment
- to reconstruct the history of the Philippine volcanism, via dating of tephra layers interbedded in the sediments

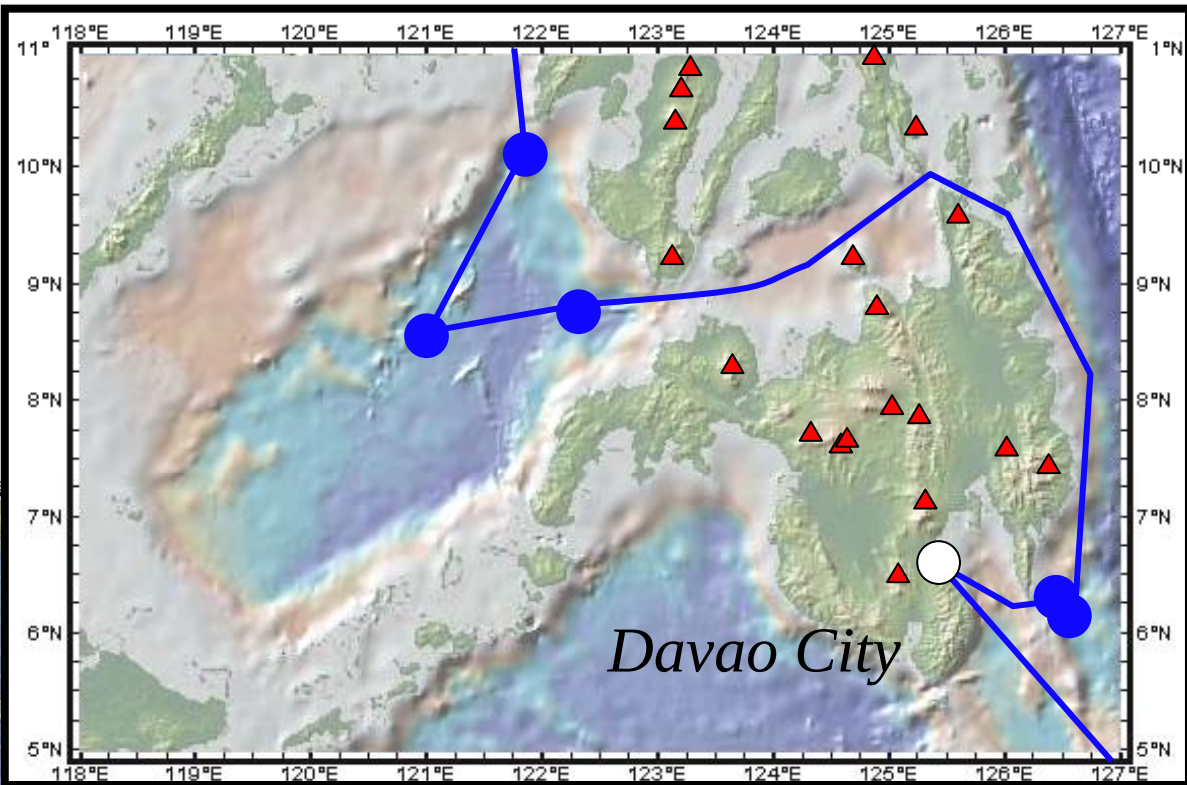
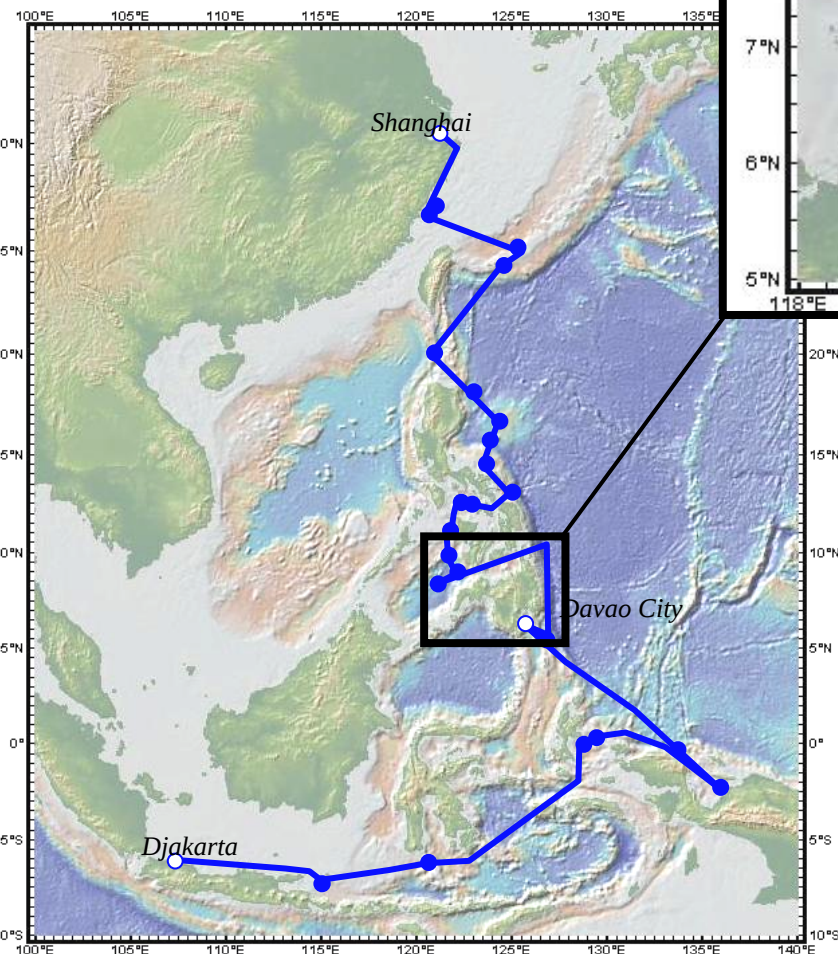
Marco Polo 2 (June 2006)



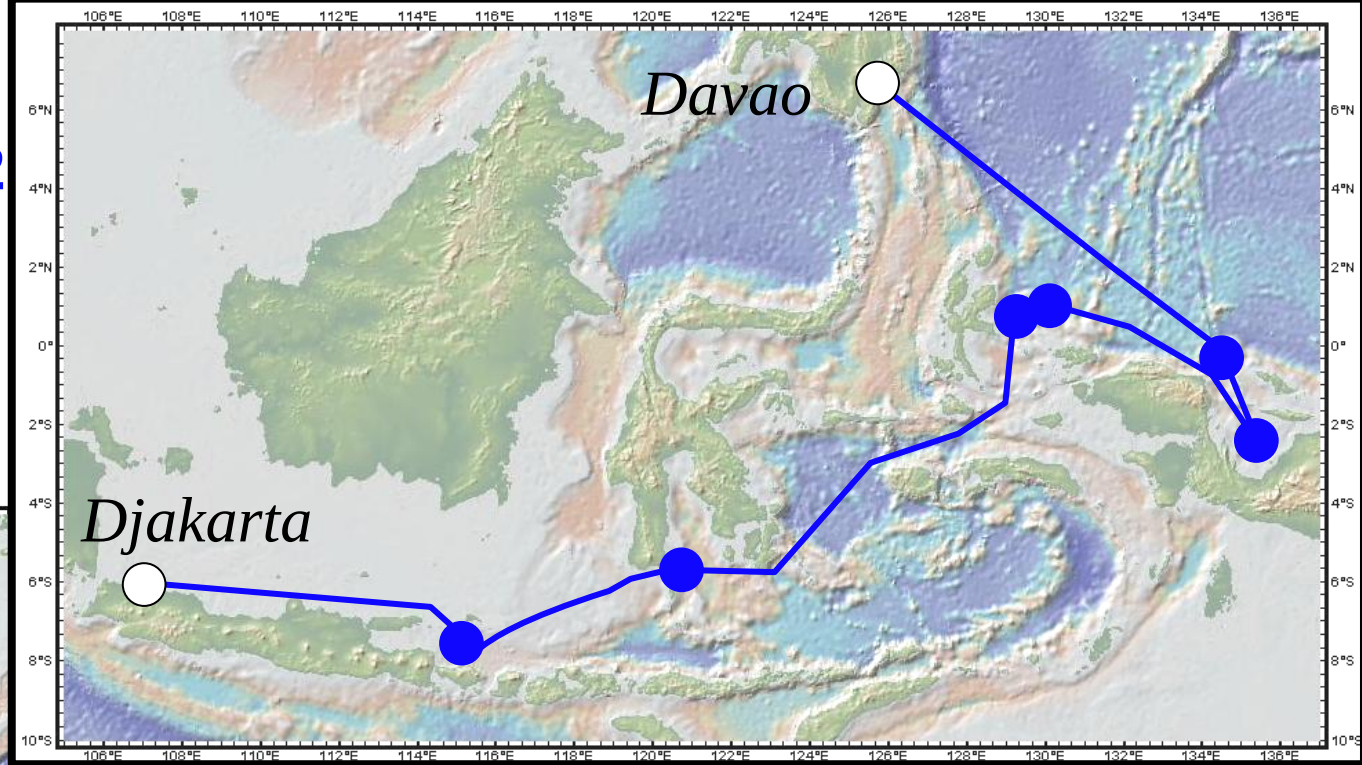
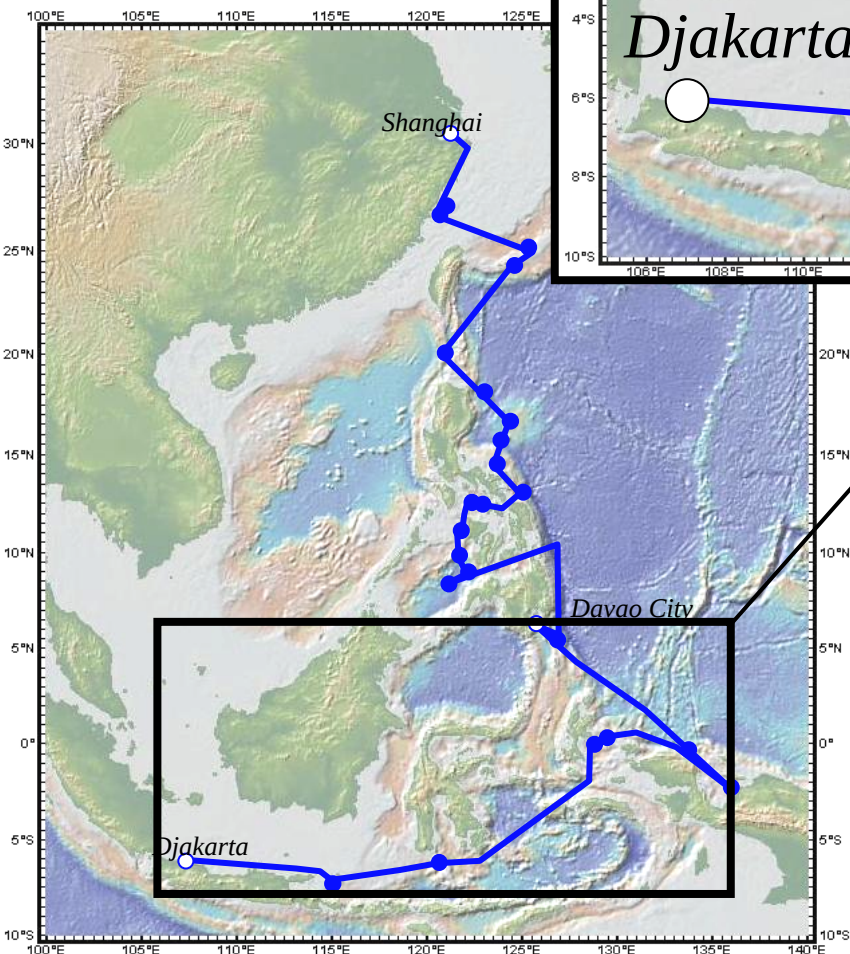
Marco Polo 2 (June 2006)



Marco Polo 2 (June 2006)



Marco Polo 2 (June 2006)



PACHIDERME

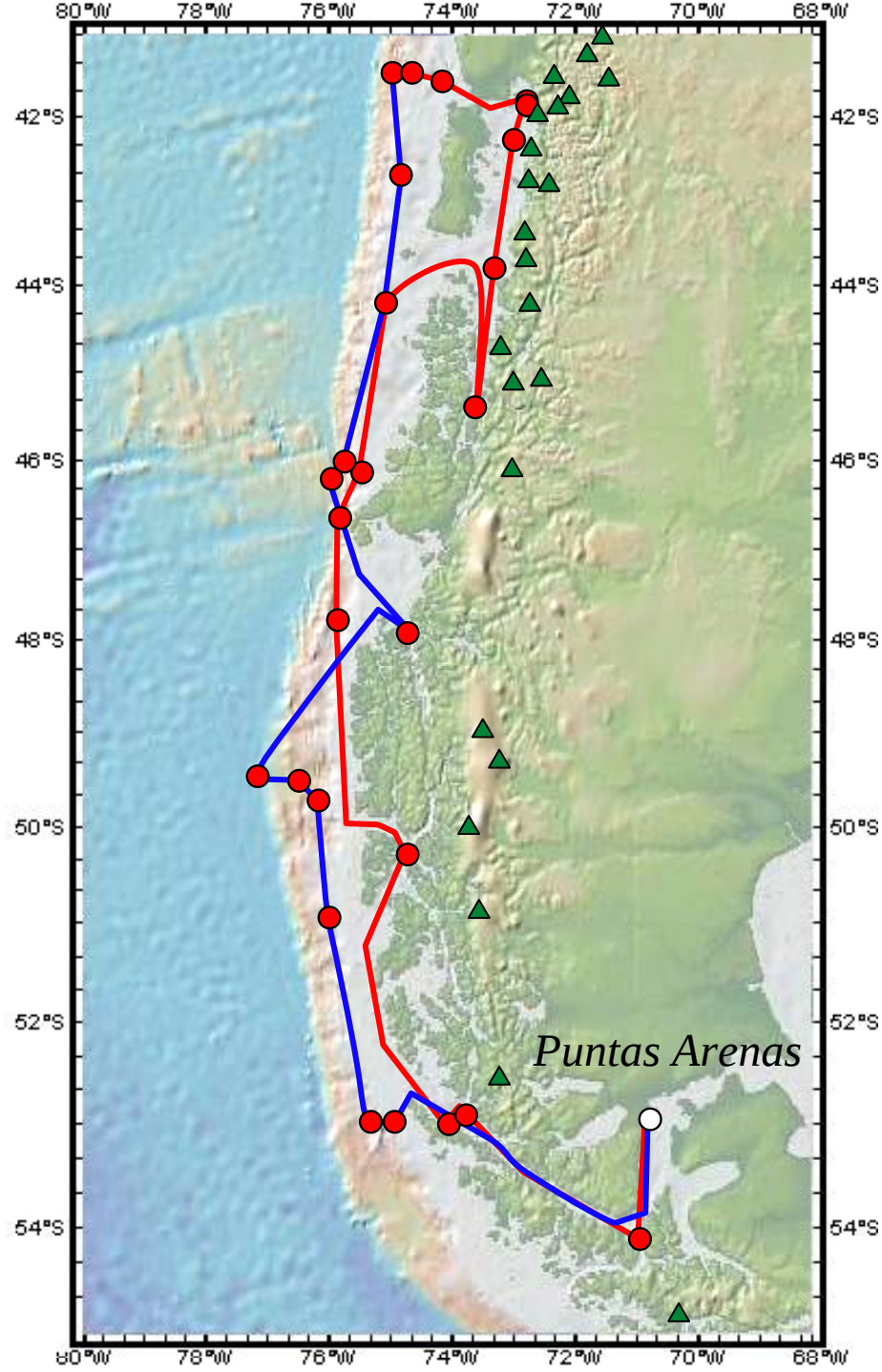
Puntas Arenas - Puntas Arenas

Chief Scientist: Catherine KISSEL

Participating laboratories:

- LSCE, Gif-sur-Yvette, France
- Universités de Savoie (Chambery), de Montpellier, d'Orsay, d'Orléans
- Bjerknes Center for Climate Research (Bergen, Norway)
- Potsdam, University of Trier, Bremen (Germany)
- University of Concepcion, Valdivia, Santiago, Valparaiso (Chile)

Route.....



PACHIDERME (Jan-Feb. 2007)

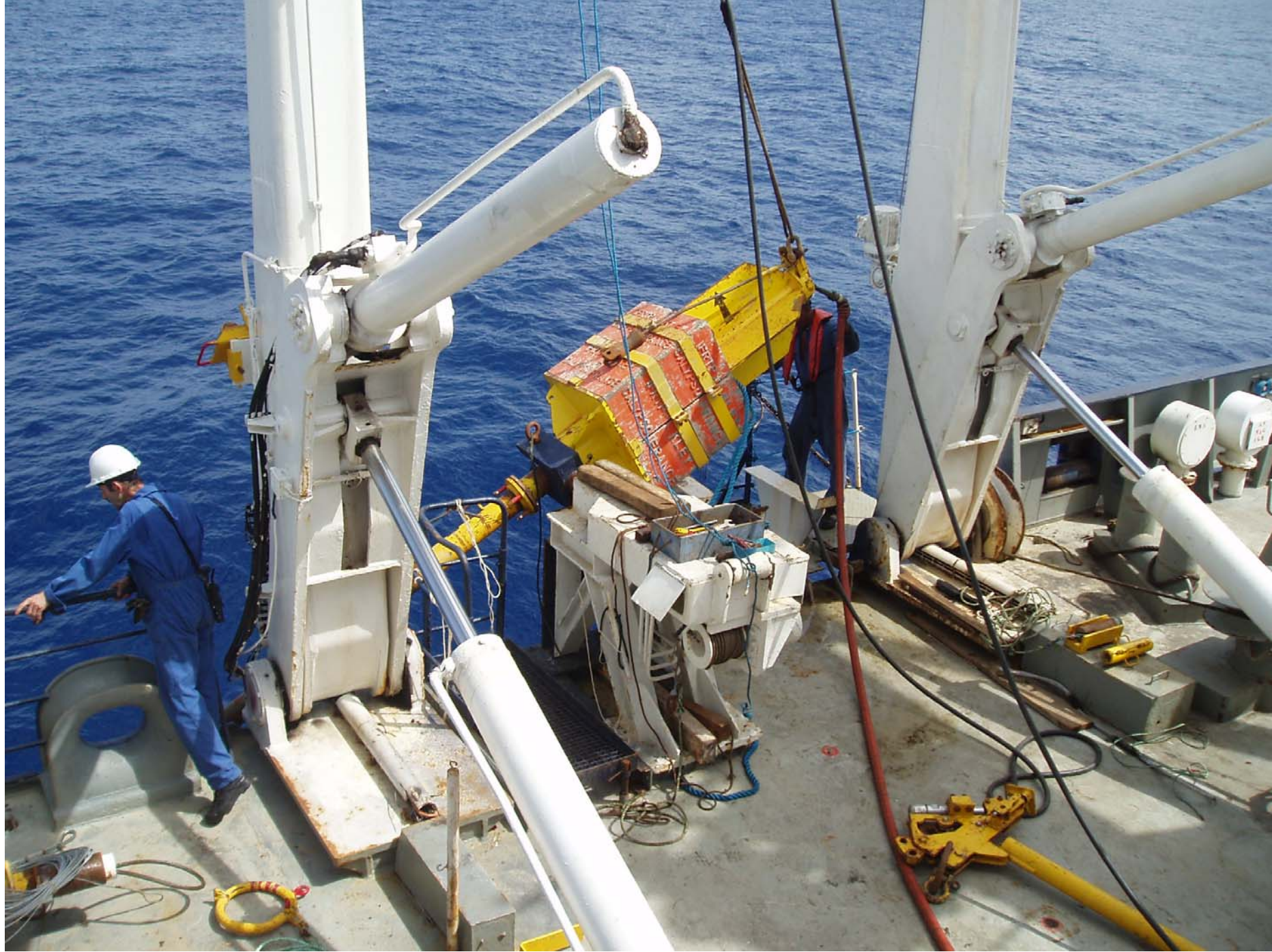
The main goals are

- 1) to determine the thermocline and intermediate water ventilation in the far southeastern Pacific;
- 2) to study the past latitudinal intensity variability of the westerly wind belt;
- 3) to establish the precise chronology for the retreat of the major Patagonian/Cordillera Darwin glaciers since the LGM in order to address questions concerning inter-hemispheric synchronicity of climate change;
- 4) To establish the climatic variability around the mean state at decadal periods.
- 5) To determine time variations in detrital supply (precipitation on land).

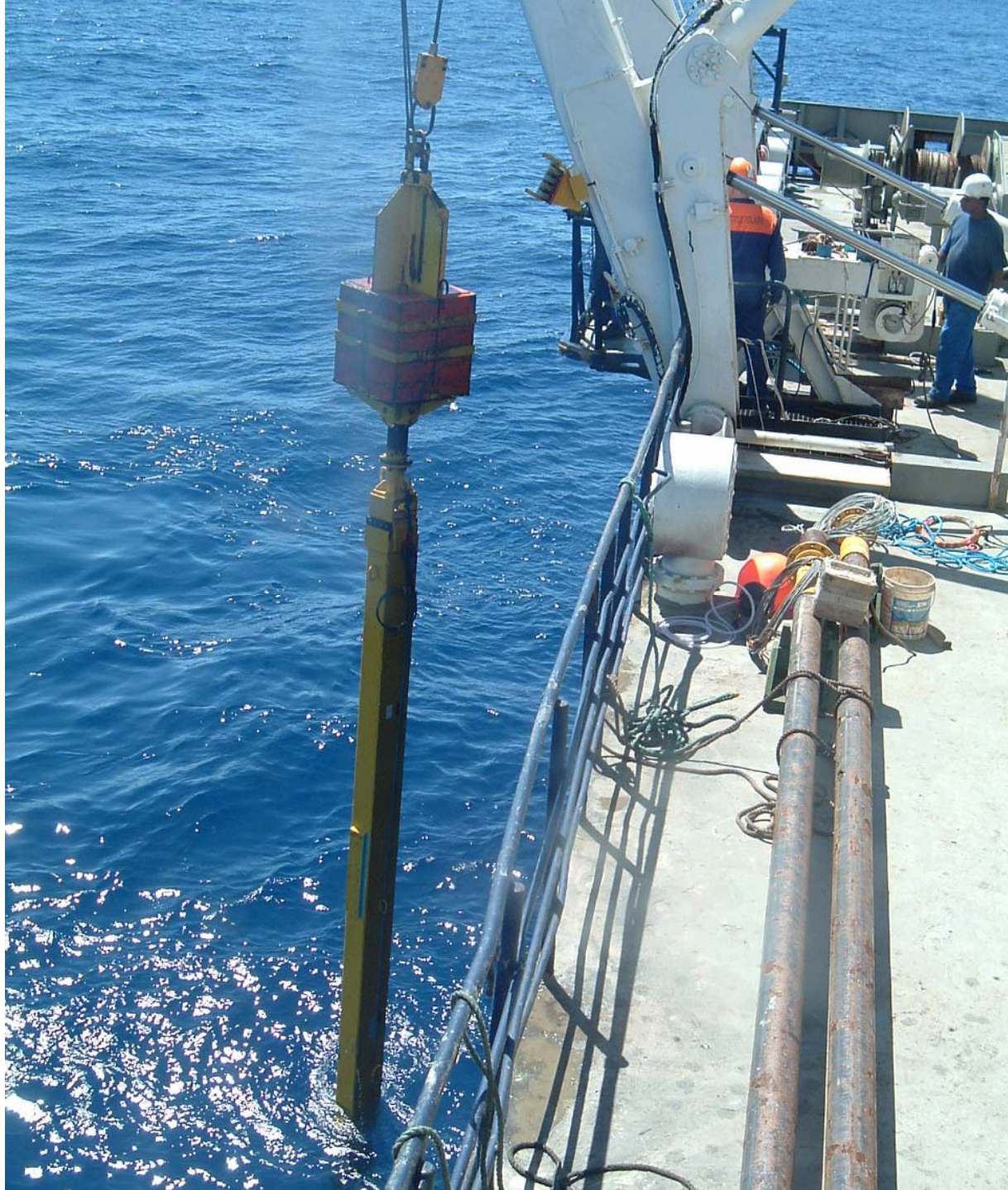
















GIFT at Sea

seagift@marion.ipev.fr

Update, every 2-3 days

Copy of the activity log

Description + photos of scientific operations (coring, water sampling etc...)

Description + photos of life on vessel

Questions (1 question per class every 3 days)

Answers by the scientific crew or the vessel crew.