

A satellite image of the Congo River delta and surrounding ocean. The land is shown in shades of green and brown, while the ocean is dark blue. Numerous white and light blue tracks, representing acoustic float data, are overlaid on the ocean surface, showing complex patterns of movement and concentration, particularly near the river's mouth and in the open ocean.

**Description of acoustic
float data
CONGAS
2004 - 2010**

B. Le Cann - A. Serpette

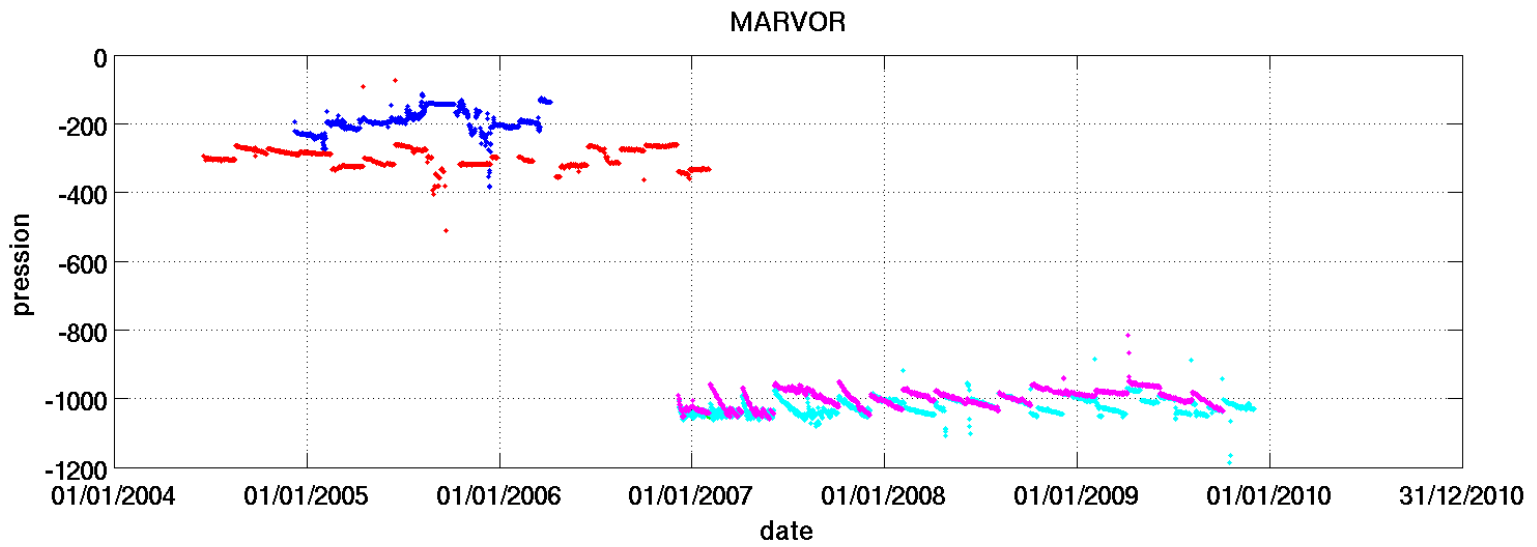
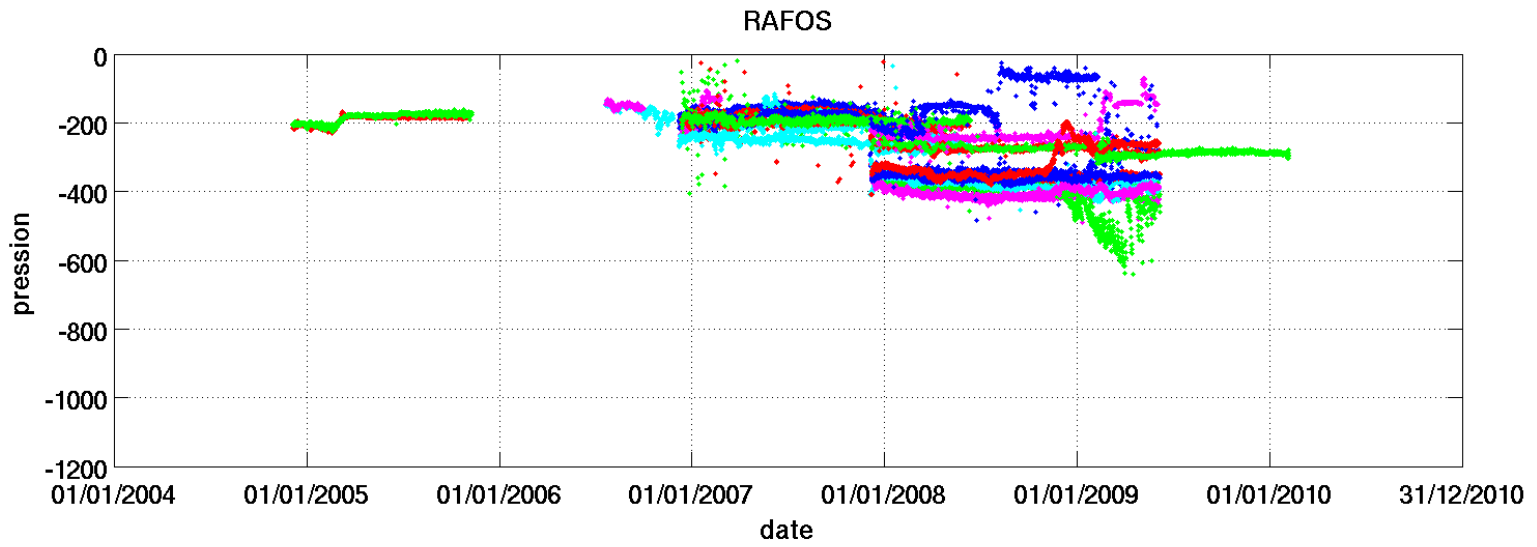
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M. Outré, N. Cortès, T. Reynaud,
A. Prigent, P. Bellec**

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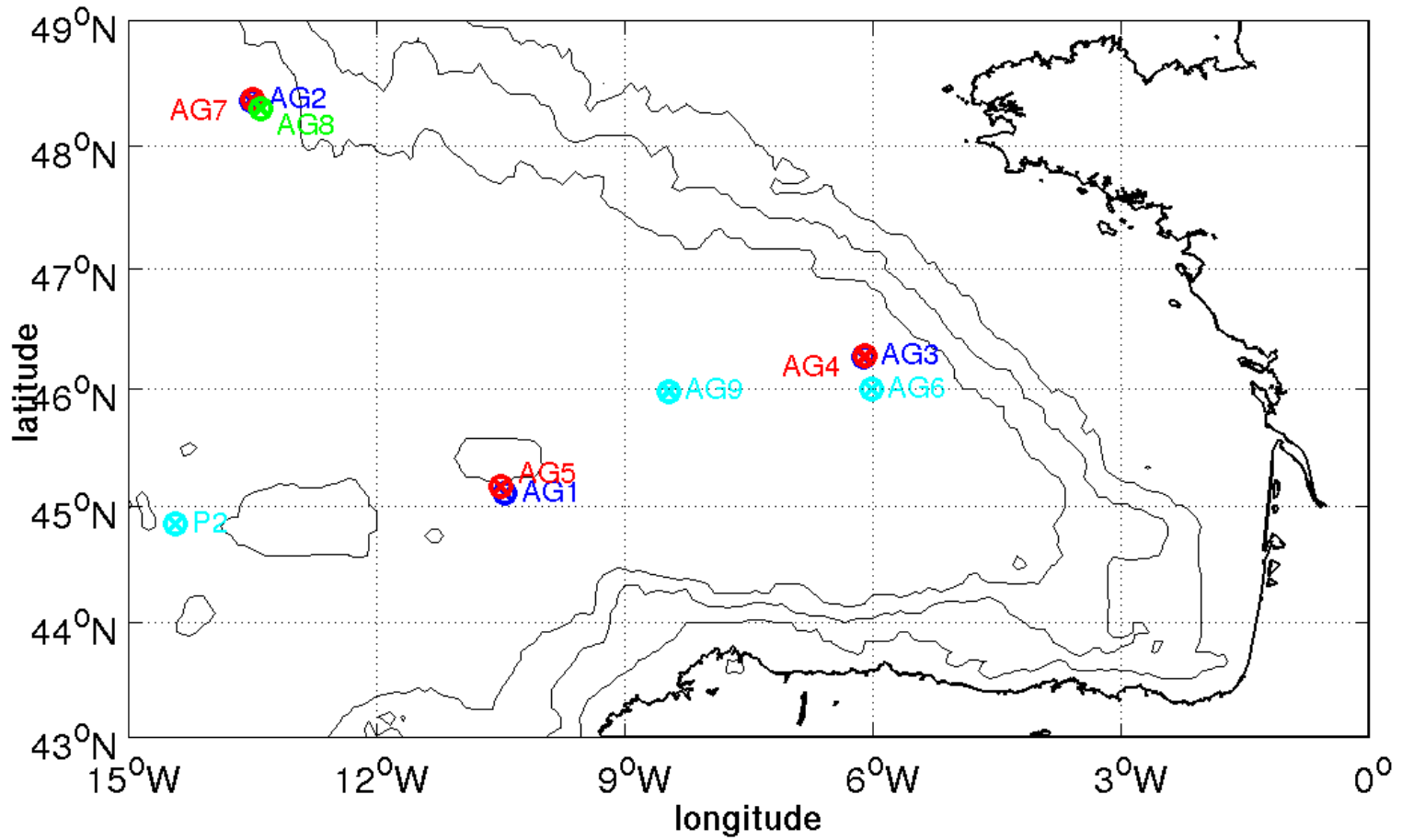
- Mesoscale processes near the Continental Slope of the Bay of Biscay :
Slope currents and eddies
- Acoustic floats :
 - Rafos (33)
 - Marvors (5)
 - Acoustic sources (9)

Acoustic floats CONGAS

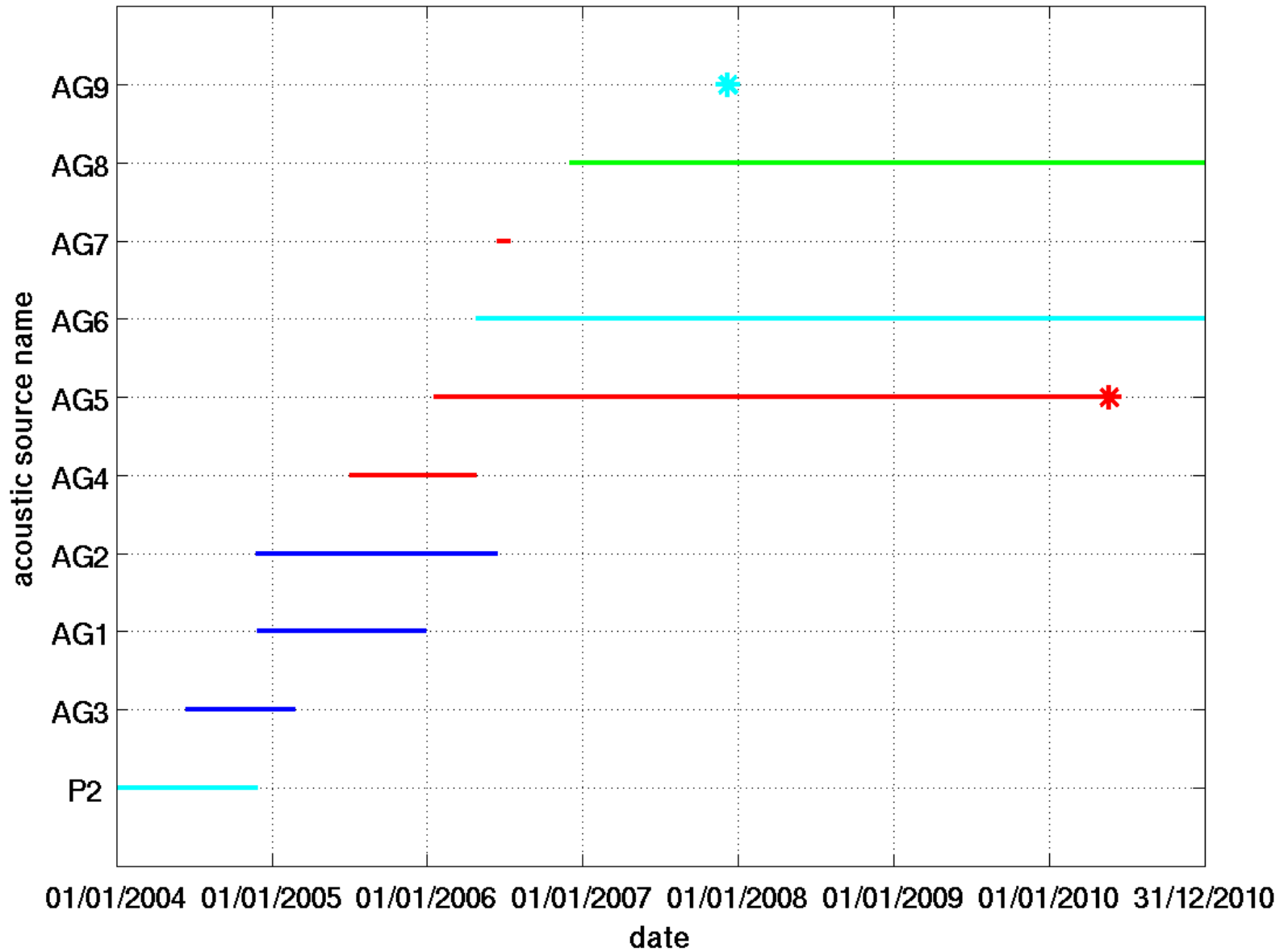
- **33 Rafos** ; 200-400 dbar ; 12-18 month mission
 - **6** in December 2004 : **3** lost, **3** recovered, **2** processed
 - **11(-2)** in December 2006 : **11** processed
 - **15** in December 2007 : **2** lost, **13** processed
 - **1** in February 2009, processed
- **5 Marvors** ; 200 to 1000 dbar ; ~3 year duration ; 2 month cycle
 - « refitted »
 - **2** in 2004 : **2** processed
 - **3** in 2006 : **1** defective, **2** processed
- $\Delta t = 8$ hours



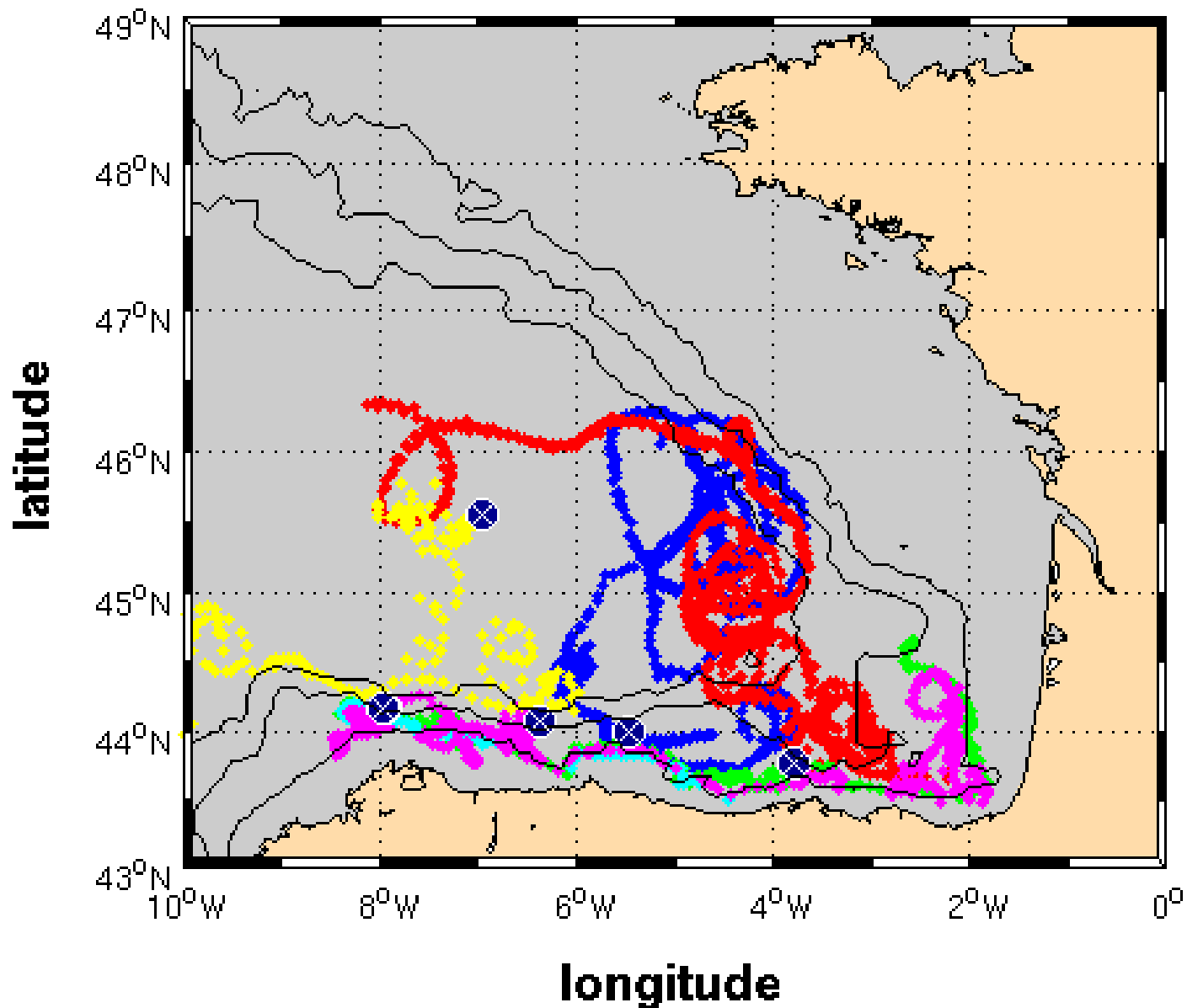
CONGAS ACOUSTIC SOURCES; 2004-2010



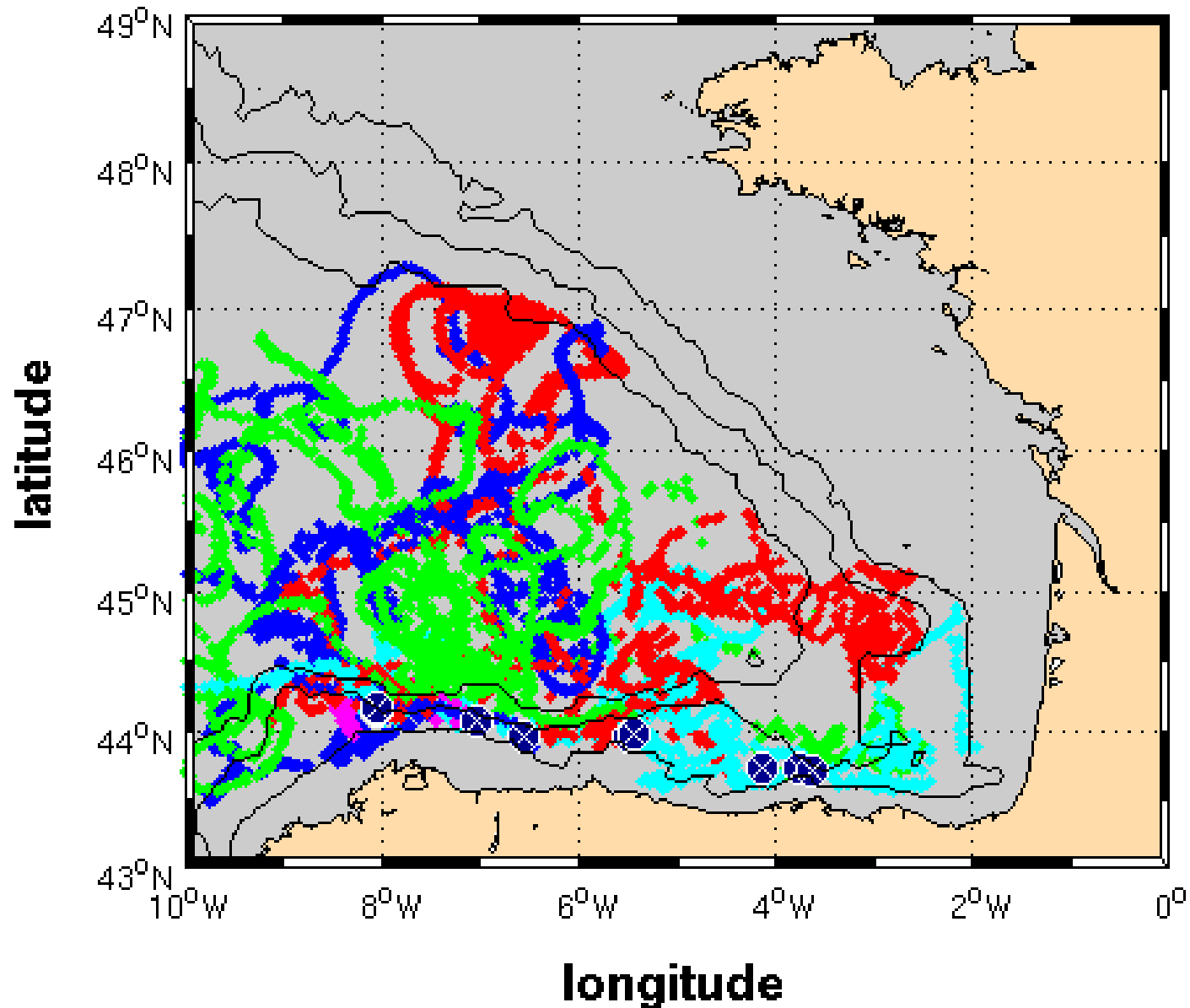
CONGAS ACOUSTIC SOURCES TIMETABLE



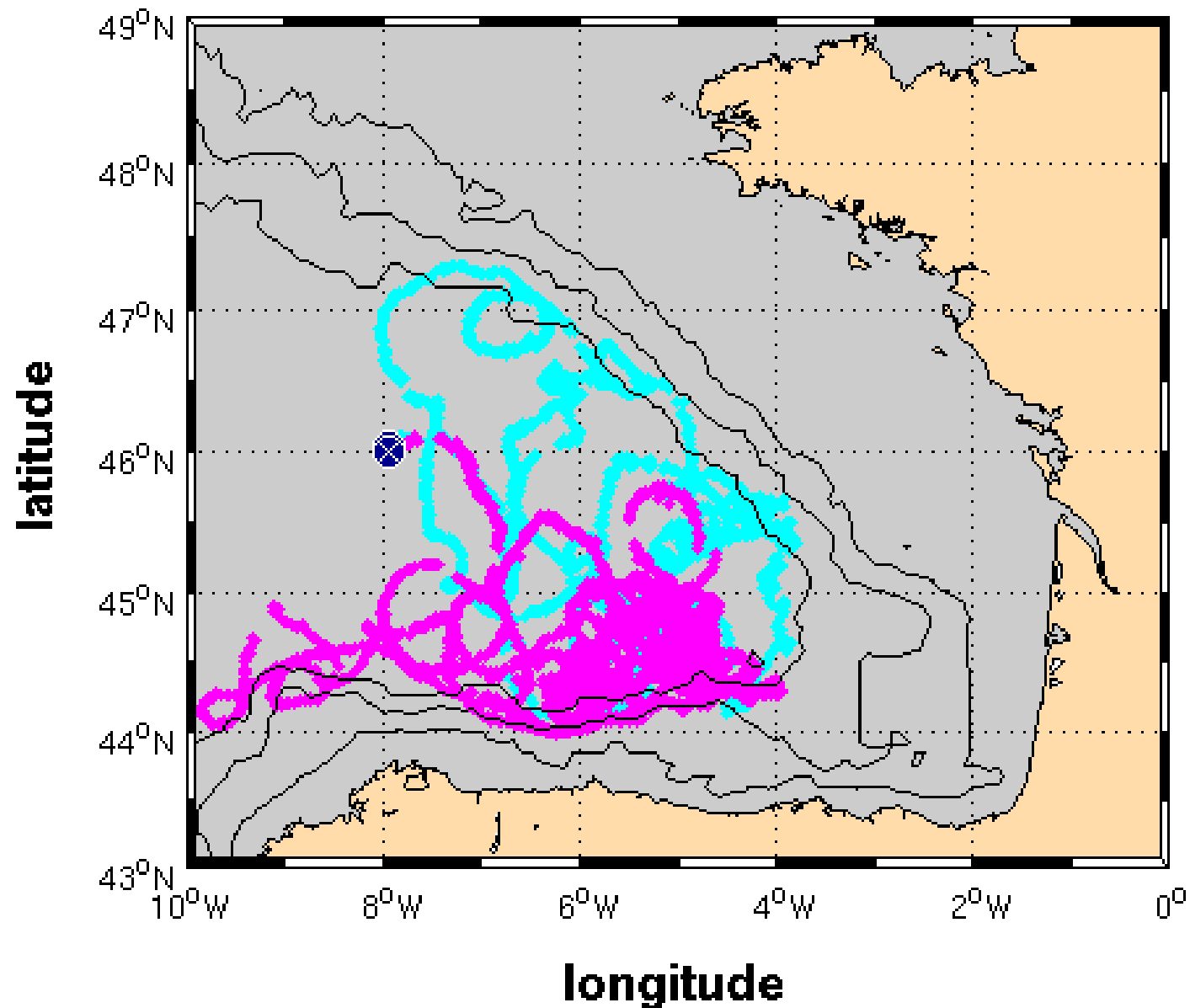
MARVOR AND RAFOS FLOATS ; 2004-2006 ; 200-400 dbar



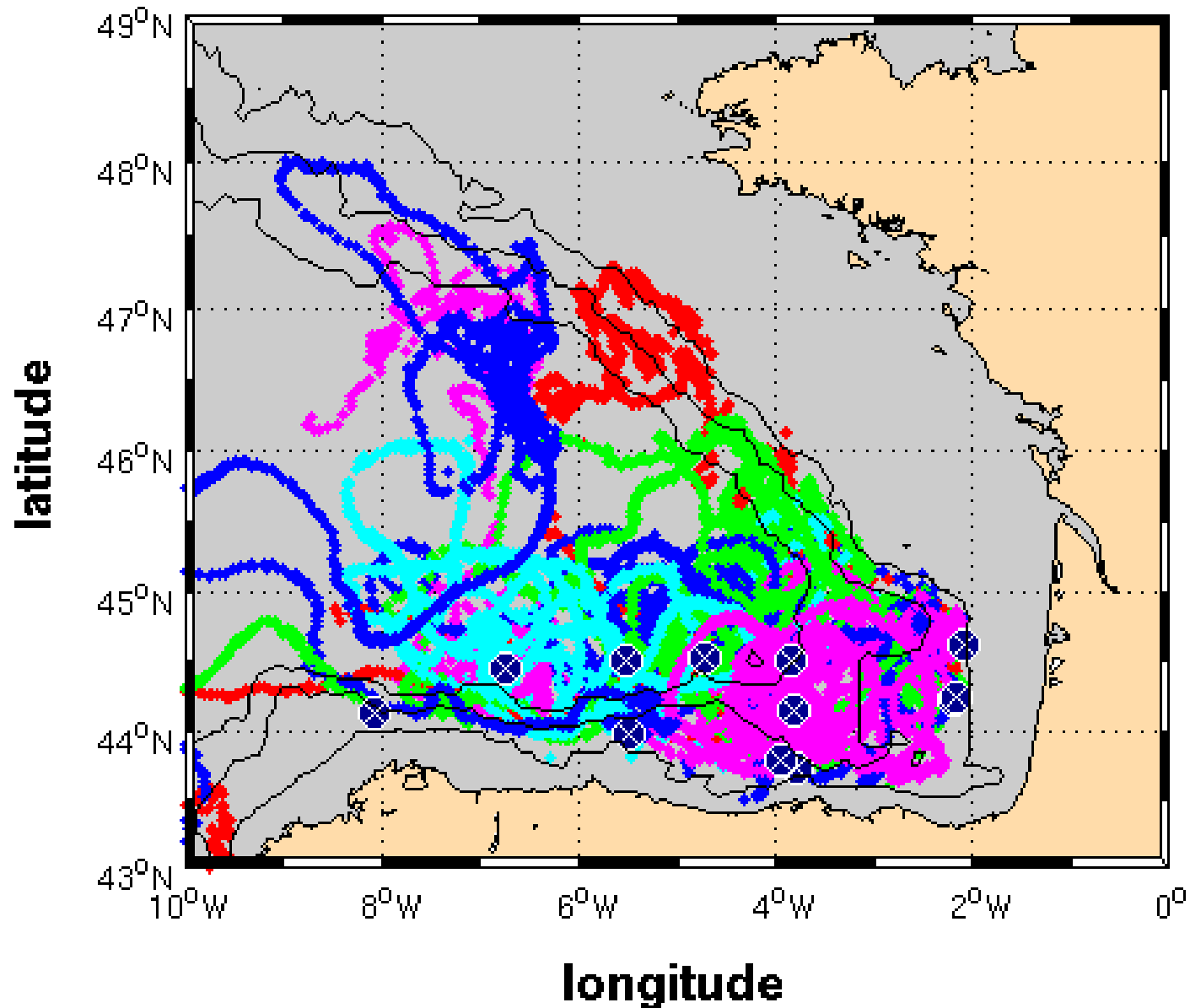
RAFOS FLOATS ; 2007-2008 ; 200-400 dbar



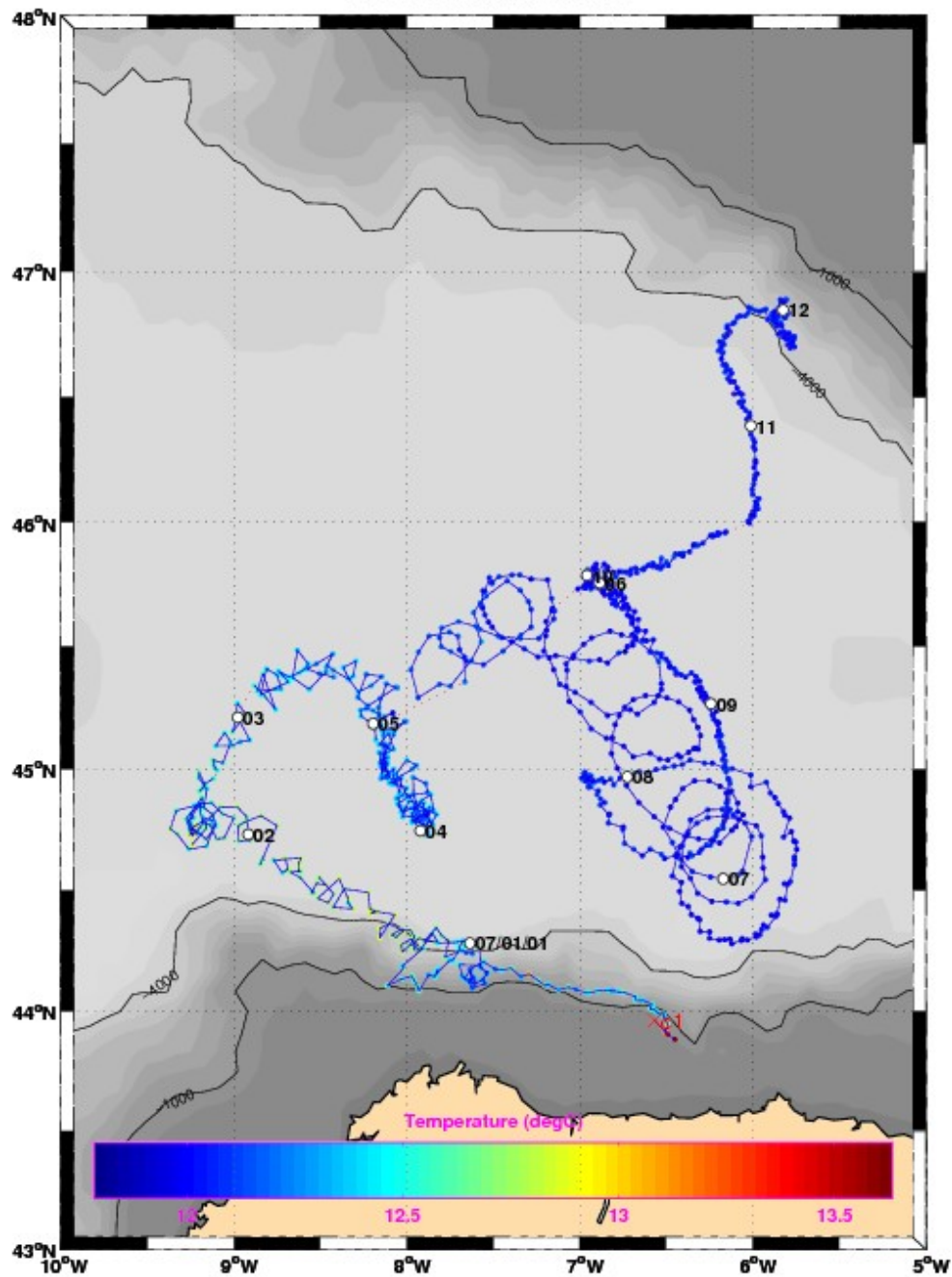
MARVOR FLOATS ; 2007-2009 ; 1000 dbar



RAFOS FLOATS ; 2008-2009 ; 200-400 dbar

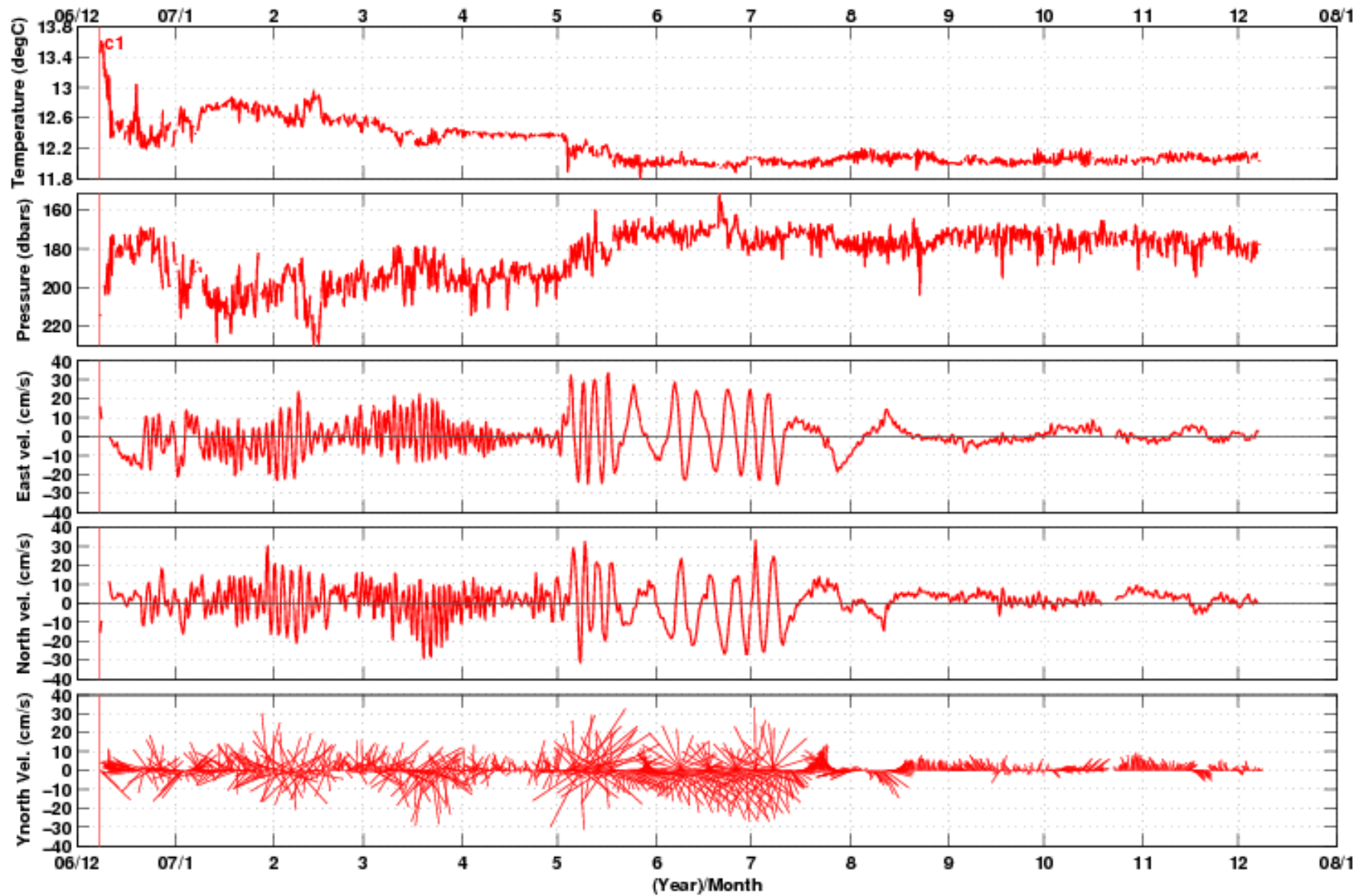


CONGAS float : rc715



trajectory color-coded in temperature

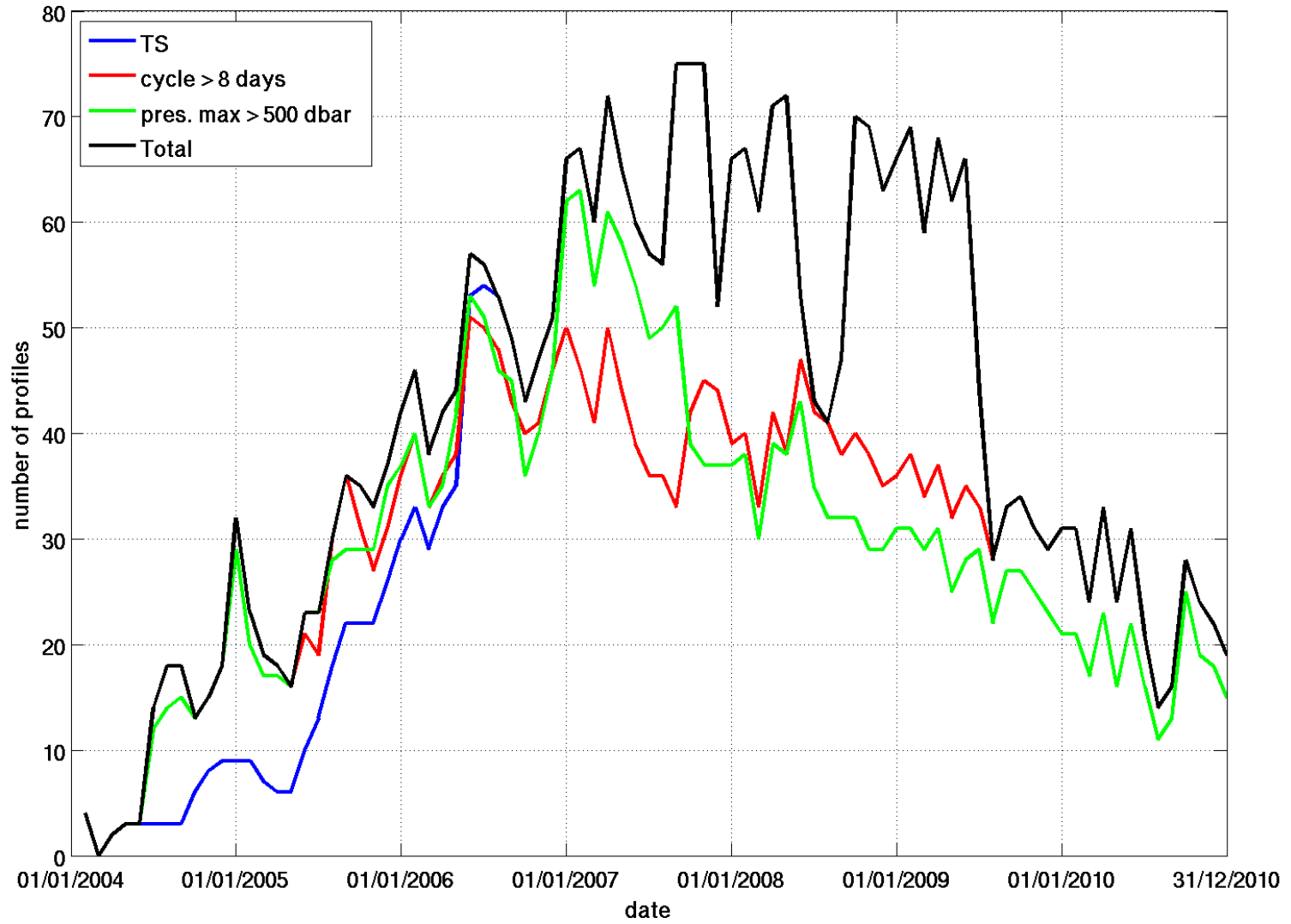
CONGAS float : rc715



Conclusions and Perspectives

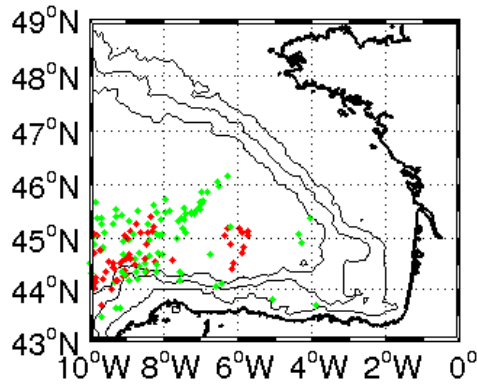
- Analysis « in progress »
- « Navidad 2006-2007 »
- « Cyclonic eddies »
- Integrate other data : Profiler floats, Drifting buoys, (Satellite data), ...
- HYCOM numerical results diagnosis (slope currents and eddies)

Number of profiles for the zone 43N-49N 10W-0E

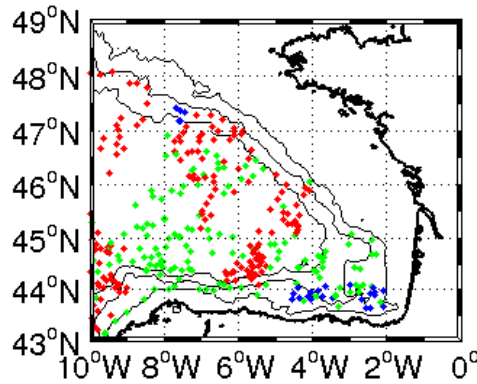


Profiles : cycle < 8 days (blue); T only (green); TS and cycle > 8 days (red)

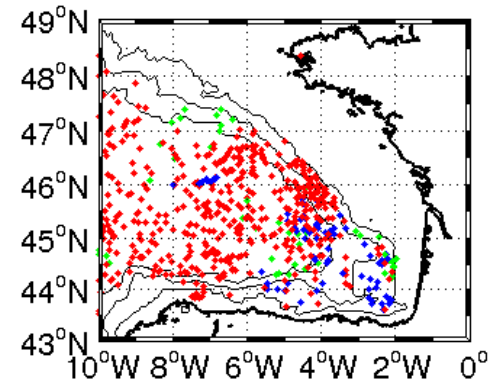
YEAR : 2004



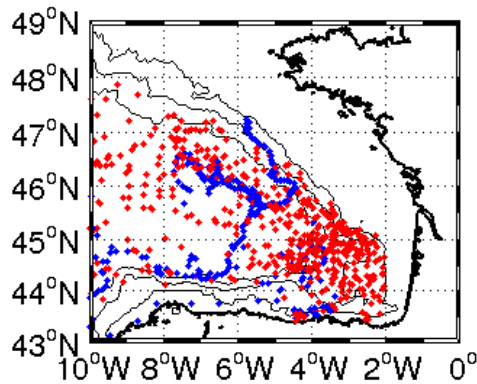
YEAR : 2005



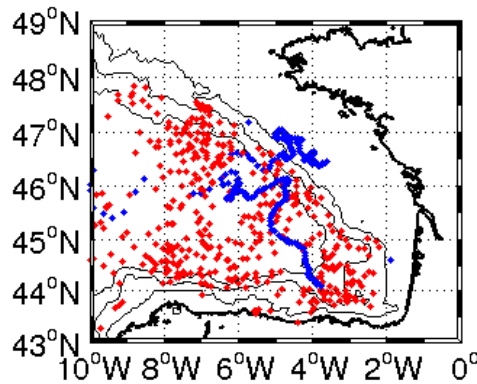
YEAR : 2006



YEAR : 2007



YEAR : 2008



YEAR : 2009

