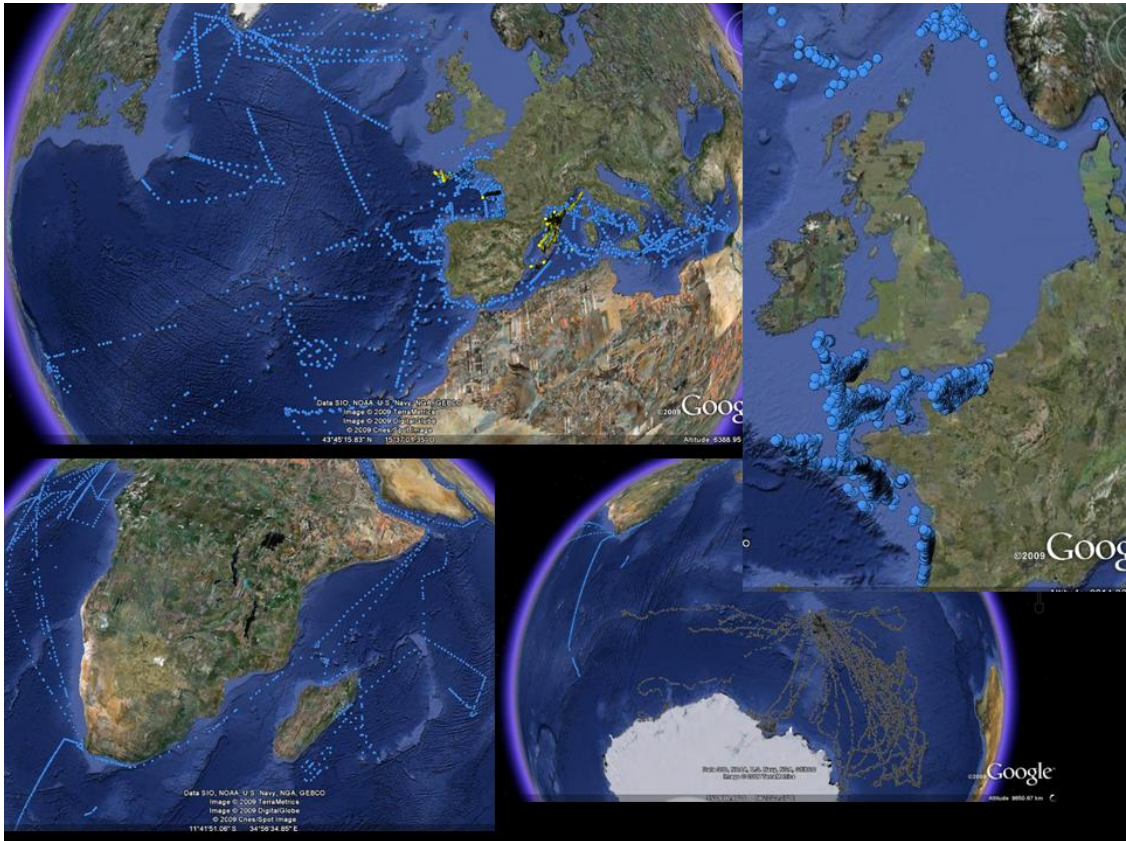# GTSPP National Data Management Report 2009

Coriolis data center

Annual report – September 2009
Version 1.0
September 28th, 2009

24 030 GTSPP profiles managed by Coriolis DAC in 2007-2008-2009

Status

(Please report the progress made towards completing the following tasks and if not yet complete, estimate when you expect them to be complete)
- Data acquired from ships, gliders, sea-mammal
- Data issued to GTS
- Data issued to US-NODC after real-time QC
- Data issued for delayed QC
- Delayed data sent to US-NODC
- Web pages
- Statistics of GTSPP data usage (operational models, scientific applications, number of National Pis…)
- Products generated from GTSPP data …

Data acquired from ships, gliders, sea-mammal

In 2007-2008-2009, 19 957 profiles from 18 vessels, 9 gliders, sea-lions and seals where collected, controlled and distributed.
All profiles processed in 2007, 2008 and 2009 are available at:
- http://www.ifremer.fr/co/etc/gtspp/co_gtspp_xb_2007.meds
- http://www.ifremer.fr/co/etc/gtspp/co_gtspp_xb_2008.meds
- http://www.ifremer.fr/co/etc/gtspp/co_gtspp_xb_2009.meds

- http://www.ifremer.fr/co/etc/gtspp/co_gtspp_ct_2007.meds
- http://www.ifremer.fr/co/etc/gtspp/co_gtspp_ct_2008.meds
- http://www.ifremer.fr/co/etc/gtspp/co_gtspp_ct_2009.meds

- http://www.ifremer.fr/co/etc/gtspp/co_gtspp_re_2007.meds
- http://www.ifremer.fr/co/etc/gtspp/co_gtspp_re_2008.meds
- http://www.ifremer.fr/co/etc/gtspp/co_gtspp_re_2009.meds

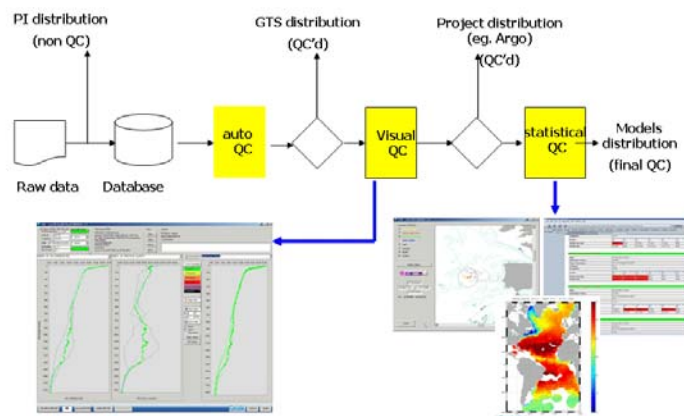| GTSPP profiles managed by Coriolis				
Year	2007	2008	2009	Total
XBT profiles	1 416	1 529	849	3 794
CTD profiles (CTD, gliders, sea-mammals)	883	6 205	7 075	14 163
RE profiles (fishing gears)	1 123	2 397	2 553	6 073
Total	3 422	10 131	10 477	24 030

Warning: the year 2009 is not complete (January to September).

List of the platforms that reported temperature and/or salinity profiles:
- SHIPS : 12 platforms
  Beautemps-Beaupré , Thetys II, Pourquoi-Pas?, L'Atalante, Colibri, Antea, Albarquel, Laperouse, Nokwanda, Nuka Arctica, Venezia, Thalassa, Marion-Dufresne, Côte de la Manche, Merian, Cornide de Saavedra, Alis, Le Suroît

- Gliders : 9 platforms, Trieste-1, Atalanta, Maya, Ammonite, Bellamite, Coprolite, Deepy, Pytheas, Potame,

- Sea-mammals : Sea-Lions from Kerguelen island, seals from Terre-Adélie

- Fishing boats : Recopesca project is working with 30 fishing boats equipped with temperature and salinity sensors.

Data issued to GTS

All profiles processed by Coriolis are distributed on the GTS by way of Meteo-France. This operation is automatically performed. After applying the automatic GTSPP QC procedure, the profiles are inserted on the GTS every 2 hours. GTSPP profiles are inserted on the GTS 365 days per year, 24 hours a day.

CORIOLIS DAC: GTSPP data flow

Data issued to US-NODC after real-time QC

The vertical profiles are available at:
- http://www.ifremer.fr/co/etc/gtspp/

This distribution is not automated, it is performed once a year.
If necessary, this procedure may be automated and performed once a week for instance.

Data issued for delayed QC

All profiles are visually controlled by a Coriolis operator. XBT are particularly scrutinized by SHOM experts (the French Hydrography service).

Delayed mode data sent to US-NODC

No delayed mode data was transmitted to US-NODC these 3 last years.

Statistics of GTSPP data usage (operational models, scientific applications, number of National Pis…)

Operational oceanography models : all profiles are distributed to:
- French model Mercator (global operational model)
- French model Previmer (regional operational)
- French model Soap (navy operational model)
- EU MyOcean models (Foam, Topaz, Moon, Noos)
- EuroGoos projects

Delayed Mode QC

(Please report on the progress made towards providing delayed mode GTSPP data, how it's organized and the difficulties encountered and estimate when you expect to be pre-operational .)

Loïc Petit de la Villéon is working on a comprehensive collection of XBT metadata (e.g.: fall rates).

Mathieu Hamon is working on a delayed-mode correction method for XBTs fall rate whose metadata are not available.

The SHOM (Navy Hydrographic Service) and Ifremer are working on a new quality control software called Scoop-Evolog. This software will handle XBT data and its metadata (meteorological observations, serial number of XBTs, salinity samples).