

Argo data management
October 27th, 2006 version 1.3
Ref : cordo/dti-rap/06-117
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ARGO DATA MANAGEMENT REPORT FRENCH GDAC

ARGO

part of the integrated global observation strategy



Introduction

This document is the annual report of the French Argo Global Data Assembly Centre (GDAC) for 2006.

The French GDAC is supported by the Coriolis project, a joint project for operational oceanography.

Argo GDAC Functions

National centres reporting to you

Currently, 9 national DACs submit regularly data to the French GDAC.

The additional GTS DAC contains all the vertical profiles from floats that are not handled by a national DAC. These data come from GTS and GTSPP projects. The GTS profiles are quality controlled by the French DAC (Coriolis).

On October 24th, the following files were available from the GDAC FTP site :

- AOML, USA
 - File types: meta-data, trajectory, technical and profile
 - 1909 meta-data files accepted
 - 120510 profile files accepted including 36824 delayed mode profiles
 - 1854 trajectory files accepted
 - 1406 technical data files accepted
- BODC, United Kingdom
 - File types: meta-data, trajectory and profile
 - 204 meta-data files accepted
 - 12274 profile files accepted, including 396 delayed mode profiles
 - 191 trajectory files accepted
 - 0 technical data files accepted
- Coriolis : Denmark, France, Germany, Italy, Netherland, Norway, Spain
 - File types: meta-data, trajectory, profile and technical
 - 680 meta-data files accepted
 - 42342 profile files accepted, including 14475 delayed mode profiles
 - 674 trajectory files accepted
 - 532 technical data files accepted
- CSIO, China (HZ)
 - File types: meta-data, trajectory, technical and profile
 - 32 meta-data files accepted
 - 1227 profile files accepted, including 388 delayed mode profiles
 - 30 trajectory files accepted
 - 24 technical data files accepted
- CSIRO, Australia
 - File types: meta-data, trajectory, profile and technical
 - 121 meta-data files accepted
 - 7094 profile files accepted, including 497 delayed mode profile
 - 31 trajectory files accepted
 - 80 technical data files accepted
- INCOIS, India
 - File types: meta-data, trajectory and profile
 - 123 meta-data files accepted
 - 9381 profile files accepted, including 357 delayed mode profile
 - 114 trajectory files accepted

- 0 technical data files accepted
- JMA, Japan
 - File types: meta-data, trajectory, profile and technical
 - 586 meta-data files accepted
 - 41580 profile files accepted, including 12026 delayed mode profiles
 - 585 trajectory files accepted
 - 490 technical data files accepted
- KMA, Korea
 - File types: meta-data, trajectory, profile and technical
 - 106 meta-data files accepted
 - 4053 profile files accepted, including 0 delayed mode profile
 - 78 trajectory files accepted
 - 53 technical data files accepted
- MEDS, Canada
 - File types: meta-data, trajectory, technical and profile
 - 197 meta-data files accepted
 - 11753 profile files accepted, including 9015 delayed mode profiles
 - 192 trajectory files accepted
 - 149 technical data files accepted
- GTS (data collected by GTSPP)
 - File type : meta-data, profile
 - 399 meta-data files accepted
 - 23903 profile files accepted, 0 delayed mode profile

Operations of the ftp server

- Meta-data, profile, trajectory and technical data files are automatically collected from the national DACs ;
- Index files of meta-data, profile and trajectory are daily updated ;
- GDAC ftp address: <ftp://ftp.ifremer.fr/ifremer/argo>

Operations of the OpenDAP data access

Using OpenDAP, Argo data appears to you as a local file, like a network file system over the web.

http://www.coriolis.eu.org/cdc/opendap-dods_distribution.htm

<http://www.ifremer.fr/cgi-bin/nph-dods/data/in-situ/argo>

Operations of the www server

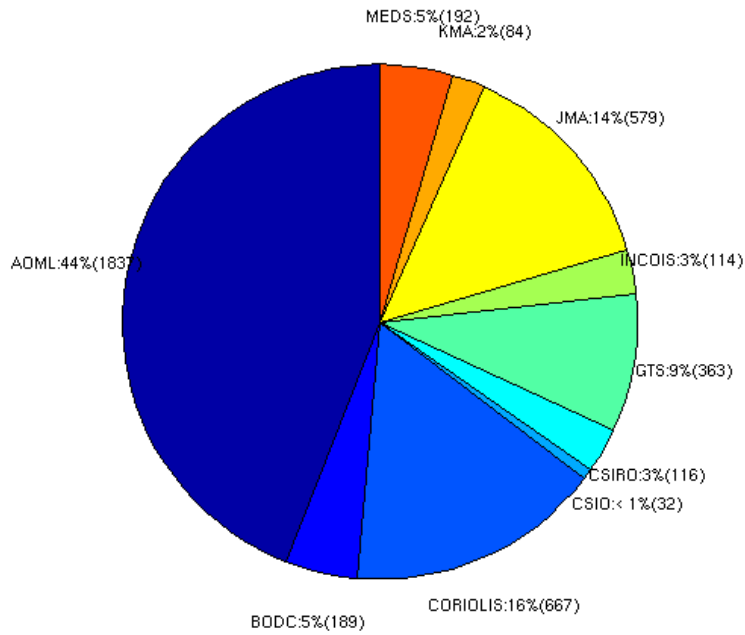
Ifremer maintains a web site with real-time and delayed mode data or meta-data collected by GDAC. The following features are available :

- Display of Argo profiling floats
 - <http://www.coriolis.eu.org/cdc/floats/cdcFloats.asp>
 - Display all active/old floats per ocean
 - Display technical informations and graphics for floats and measurements
 - Distribute data in Argo NetCdf format or medatlas Ascii format.
- Web data selection interface :
 - <http://www.coriolis.eu.org/cdc/dataSelection/cdcDataSelections.asp>
 - Select data by date, location and meta-data informations
 - Select Argo data and additional profiles from GTSPP program (XBT, CTD, buoys)
 - Distribute data in Argo NetCdf format or medatlas Ascii format.
- Display GDAC monitoring statistics
 - http://www.coriolis.eu.org/cdc/argo_gdac_monitoring.htm
- Meta-data files monitoring
 - Once a week, a global monitoring of Argo meta-data files is performed.
 - A list of 24 highly desirable meta-data parameters is defined.
 - For each float of each DAC, each missing or incorrect highly desirable parameter is pointed out
 - <http://www.coriolis.eu.org/cdc/metadataArgo/cdcMetadataArgos.asp>
- Argo data area selection
 - The user enters the boundaries of an area. For each float that crossed this area, all profile data are delivered to user.
 - <http://www.coriolis.eu.org/cdc/ArgoZonalDataSelection/cdcArgoZonalDataSelections.asp>

Data synchronization

- Implemented on 20/02/2003, the synchronization with US-GDAC is performed once a day.
All meta-data, profile and trajectory files available on US-GDAC and missing or older on Coriolis GDAC are collected.

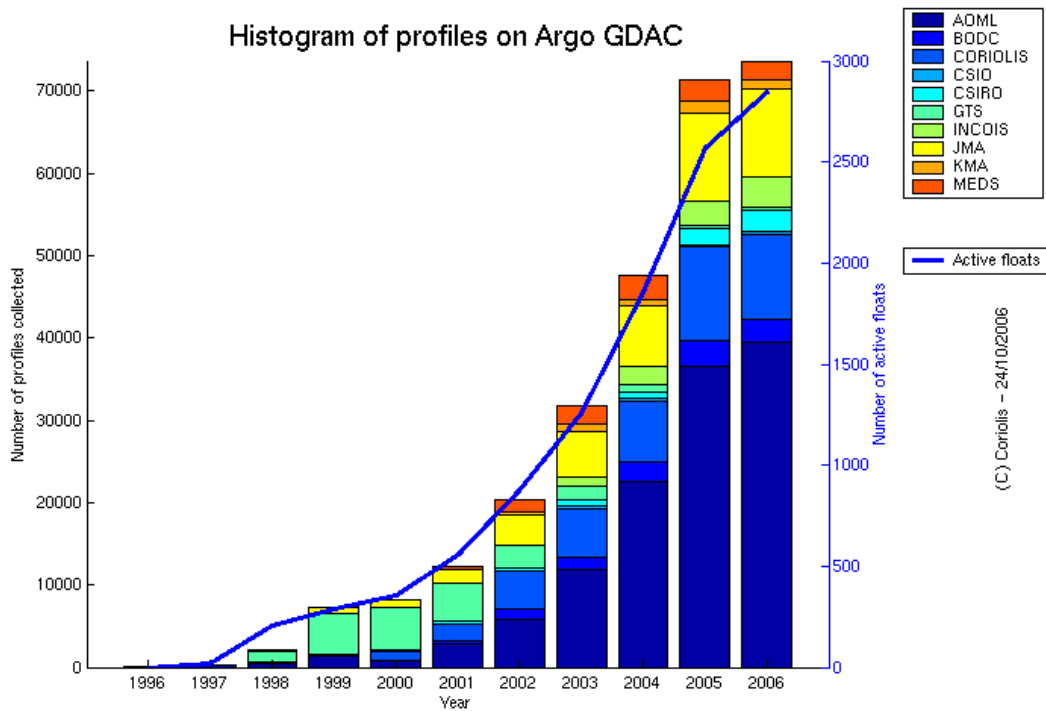
4173 floats on Argo GDAC



(C) Coriolis - 24/10/2006

Argo GDAC : floats distribution per DAC in October 2006

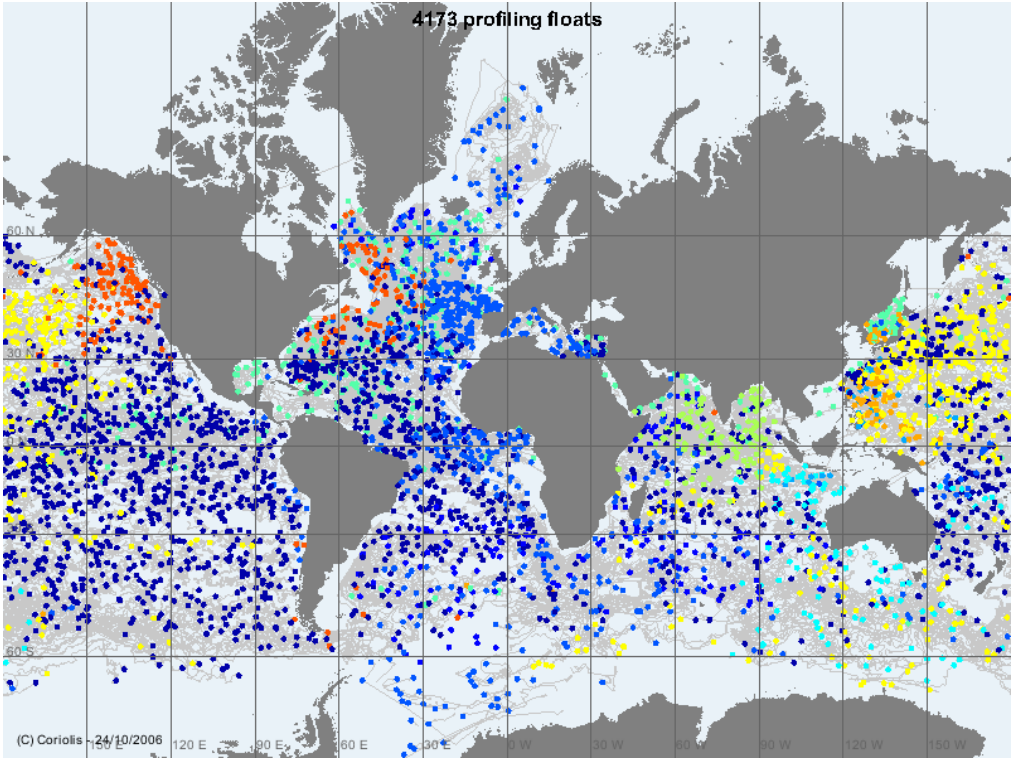
Histogram of profiles on Argo GDAC



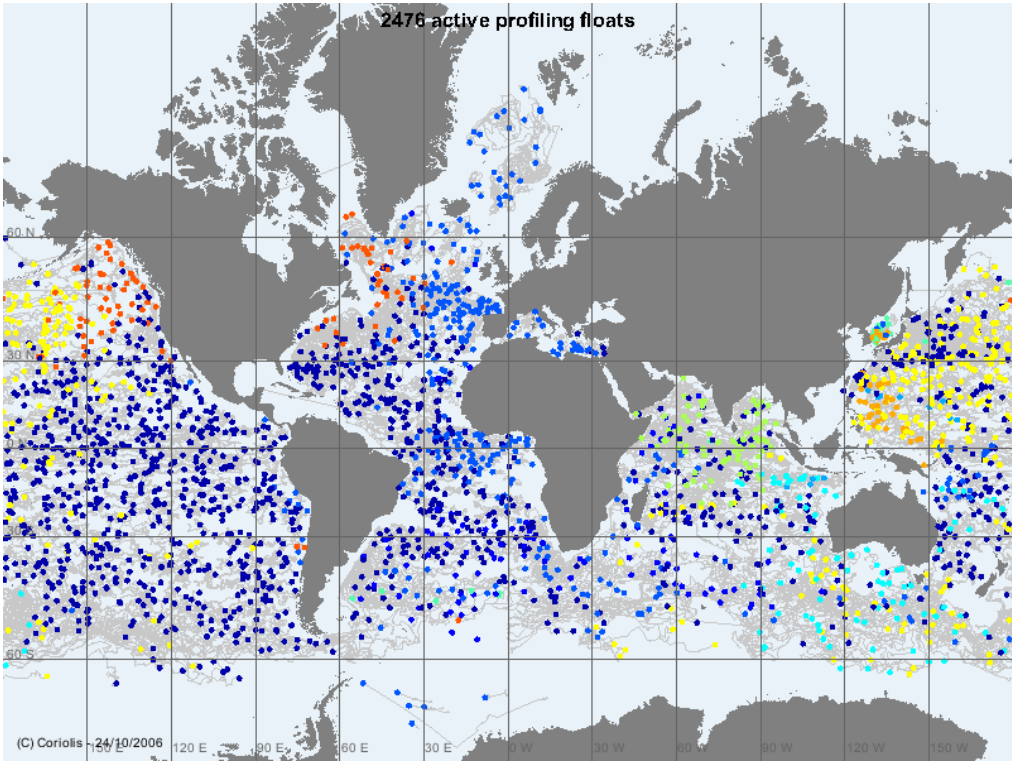
(C) Coriolis - 24/10/2006

Argo GDAC : profiles distribution per DAC in October 2006

Warning : the blue line displays the total number of active floats during a year. This total is different than the floats active at a particular day.

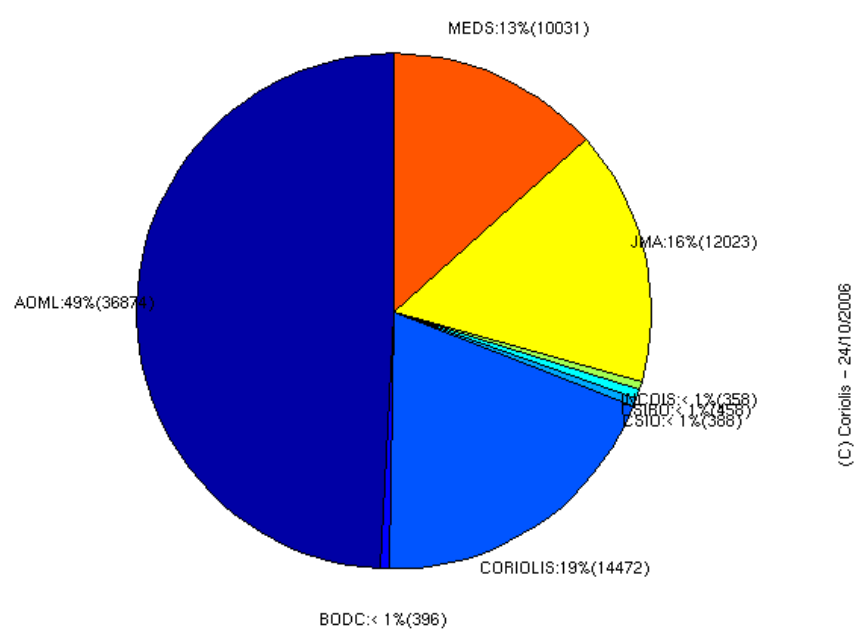


Argo profiling floats available from GDAC in October 2006
(This map includes active and old floats)

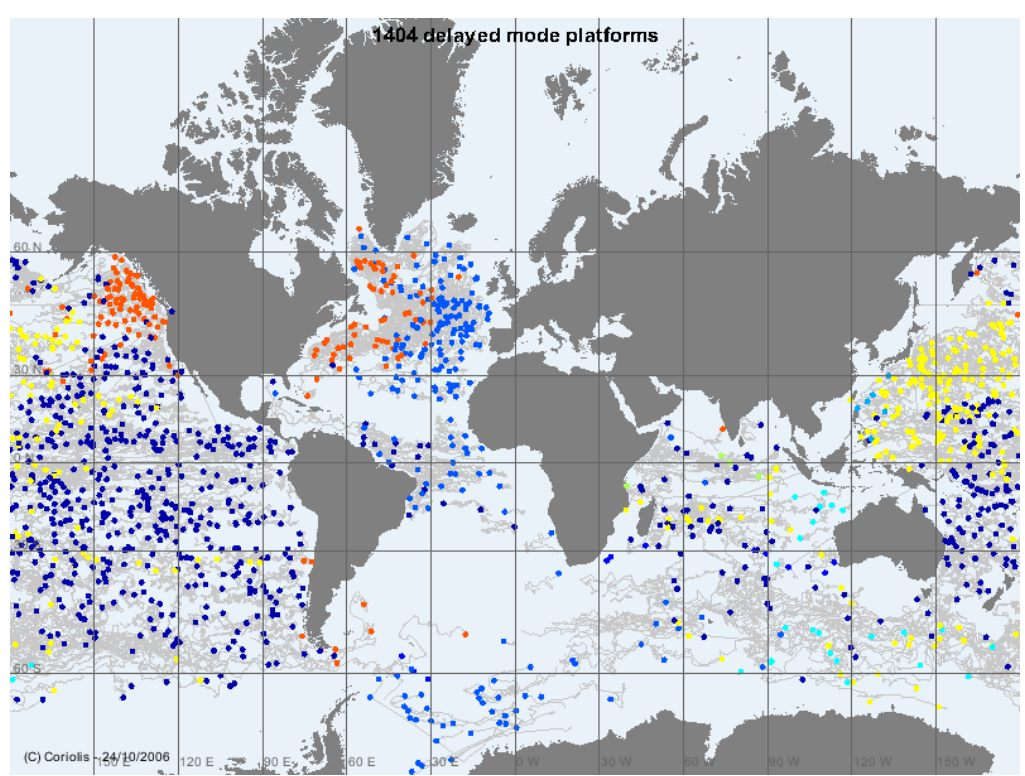


Active Argo profiling floats available from GDAC in October 2006

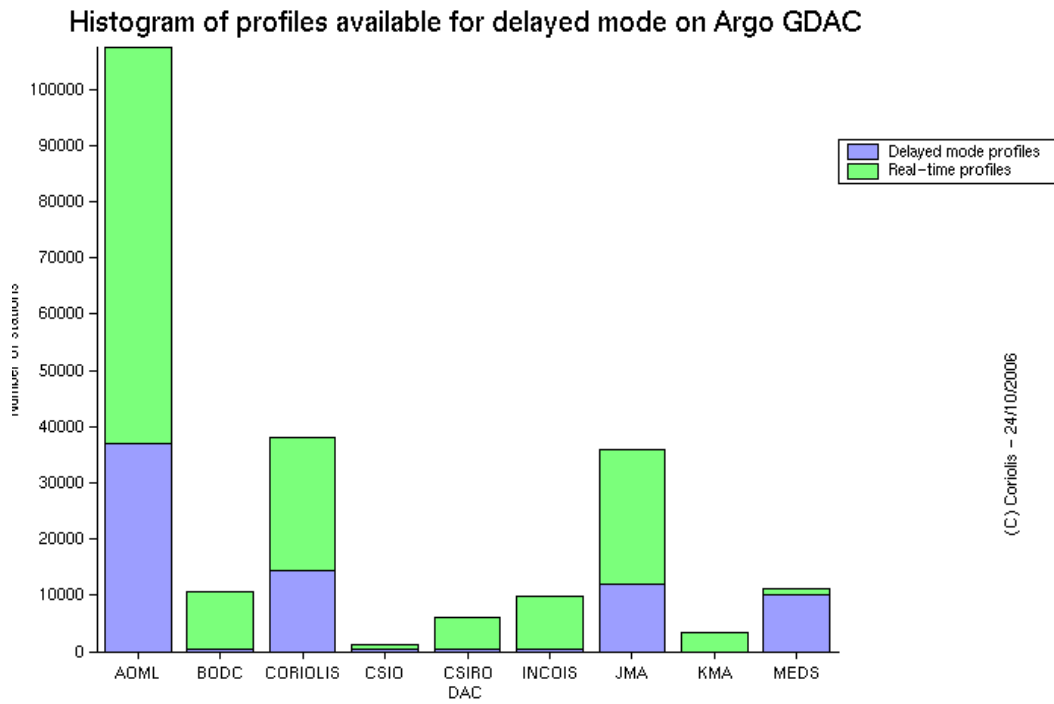
75000 delayed mode profiles on Argo GDAC



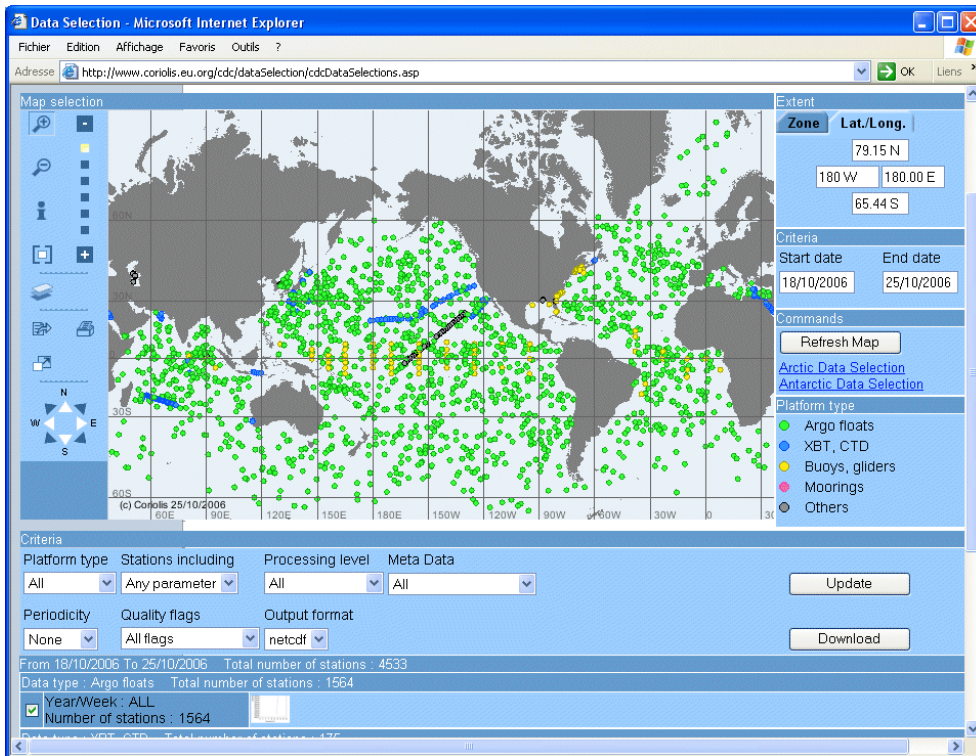
Argo GDAC : delayed-mode profiles distribution per DAC in October 2006



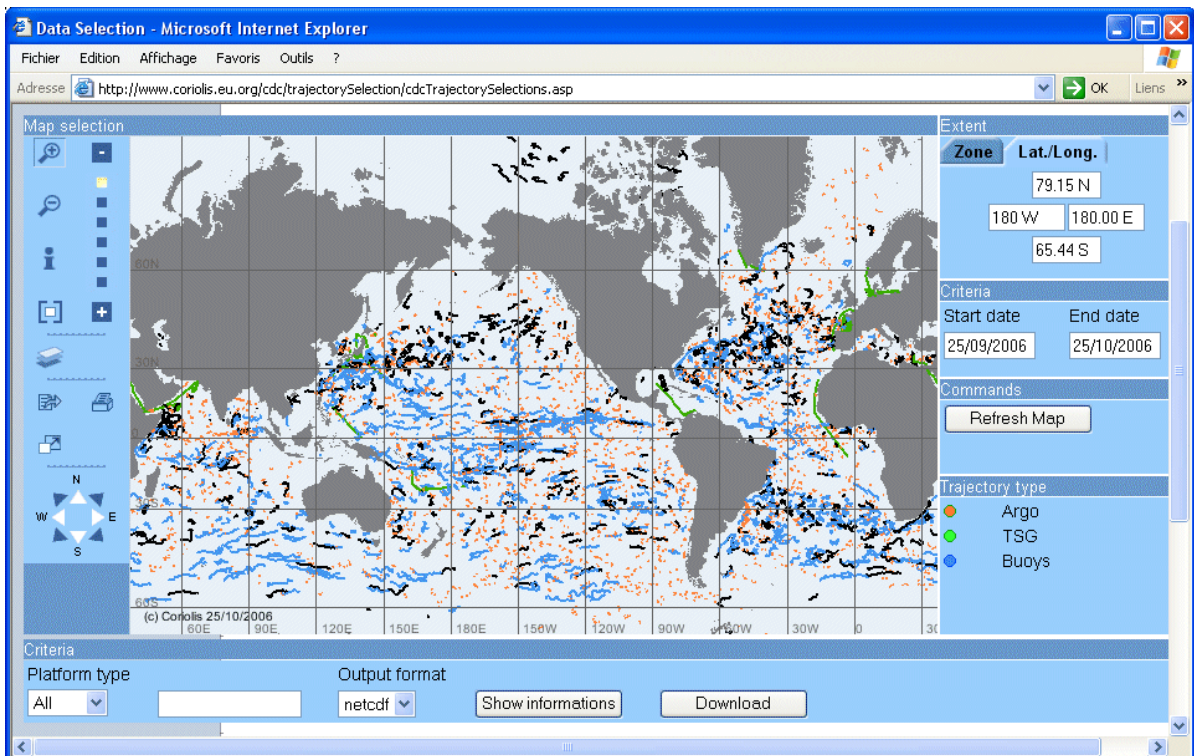
Argo profiling floats with delayed-mode profiles availables from GDAC in October 2006



Argo GDAC : delayed-mode profiles available for delayed-mode in October 2006



Argo and other GTSPG profile data available from the data selection interface, for the month of October 2006
(green dots : Argo profiles, blue dots : GTSPG XBT profiles, yellow dots : GTSPG buoys)



Argo and other trajectory data available from the data selection interface, for the month of October 2006
(Orange lines : Argo trajectories, blue lines : DBCP buoy trajectories, green lines : Gosud thermosalinographs)

meta-data monitoring - Microsoft Internet Explorer

Fichier Edition Affichage Favoris Outils ?

Adresse <http://www.coriolis.eu.org/cdc/metadataArgo/cdcMetadataArgos.asp> OK Liens >>

Home > data service > argo > argo gdac monitoring > meta-data monitoring

metadata weekly report

Dac Name	Number of file	Number of anomaly
aoml	1917	11
bodc	204	0
coriolis	680	0
csio	32	0
csiro	121	0
gts	401	401
incois	123	0
jma	586	25
kma	108	49
meds	197	0

You can download the report [here](#)

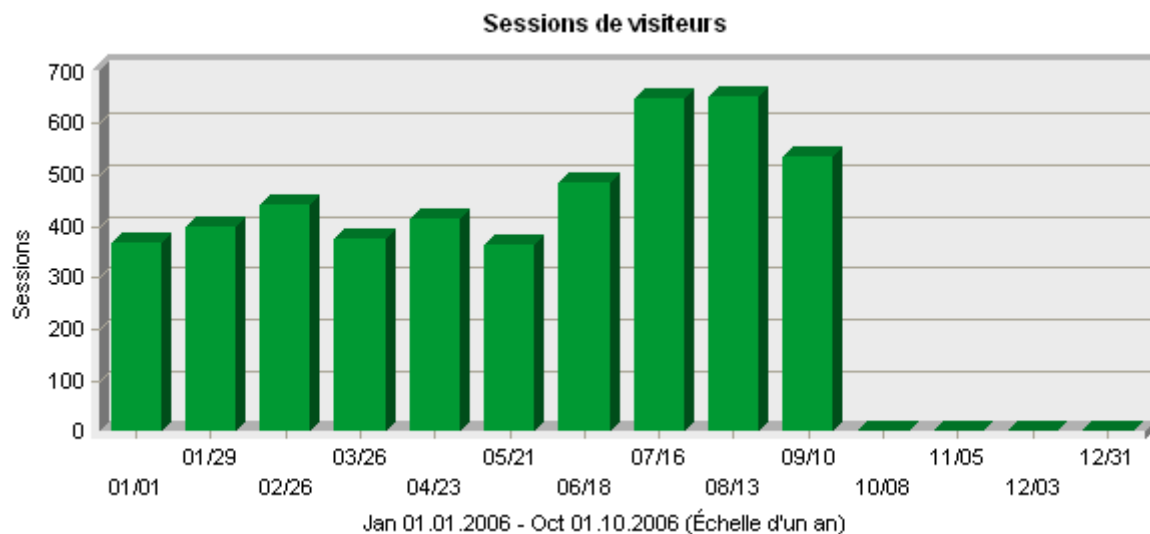
New feature : meta-data files monitoring

A list of 24 highly desirable meta-data parameters is defined. For each float of each DAC, each missing or incorrect highly desirable parameter is pointed out

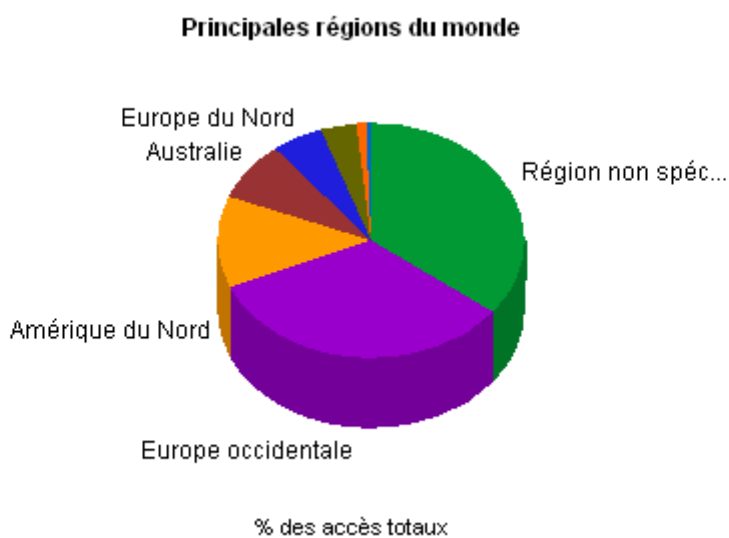
Use statistics from GDAC FTP site

From January to September 2006, the GDAC FTP server recorded

- 4 687 sessions
- 456 different visitors
- 2 425 433 file transfers.
- 8 851 daily file transfers (average)

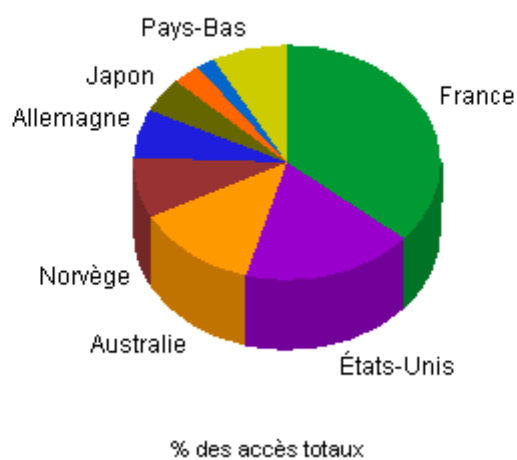


Number of FTP sessions on GDAC, from January to September 2006



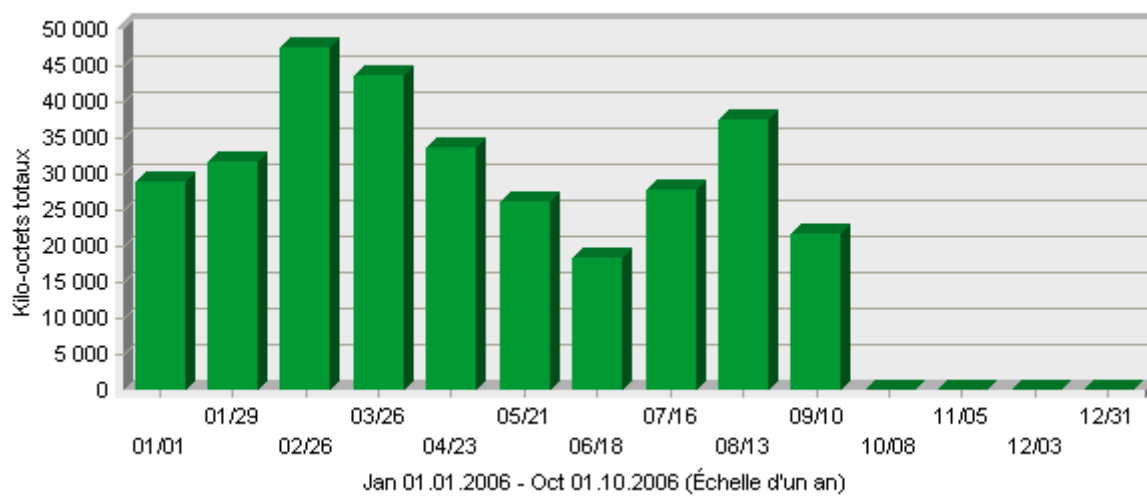
Origin of FTP sessions, main areas, from January to September 2006

Pays les plus actifs

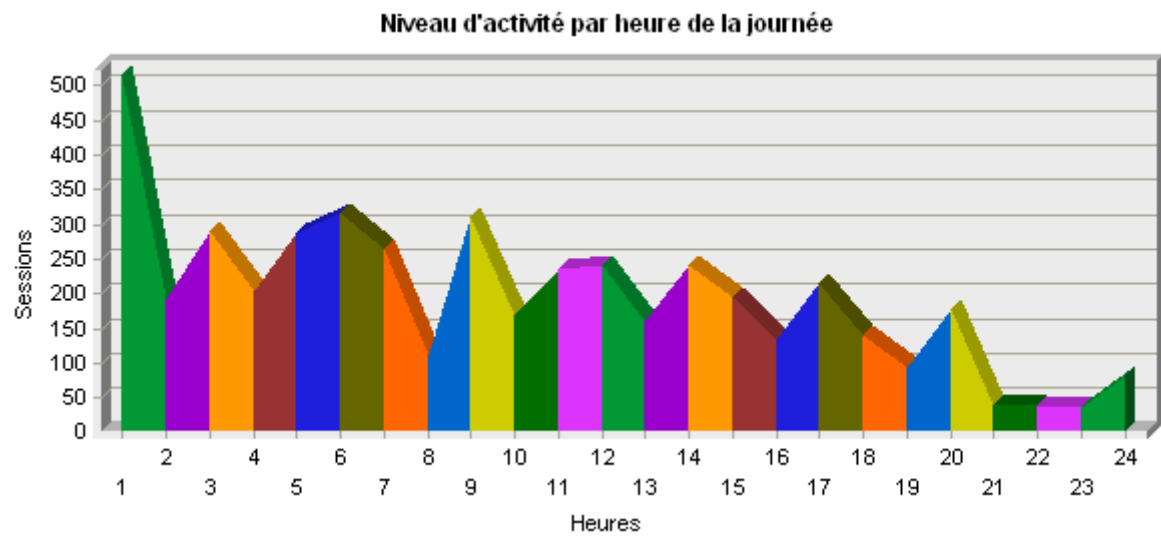


Origin of FTP sessions, main countries, from January to September 2006

Bande passante



FTP monthly bandwidth, from January to September 2006



FTP activity level per hour of the day, from January to September 2006