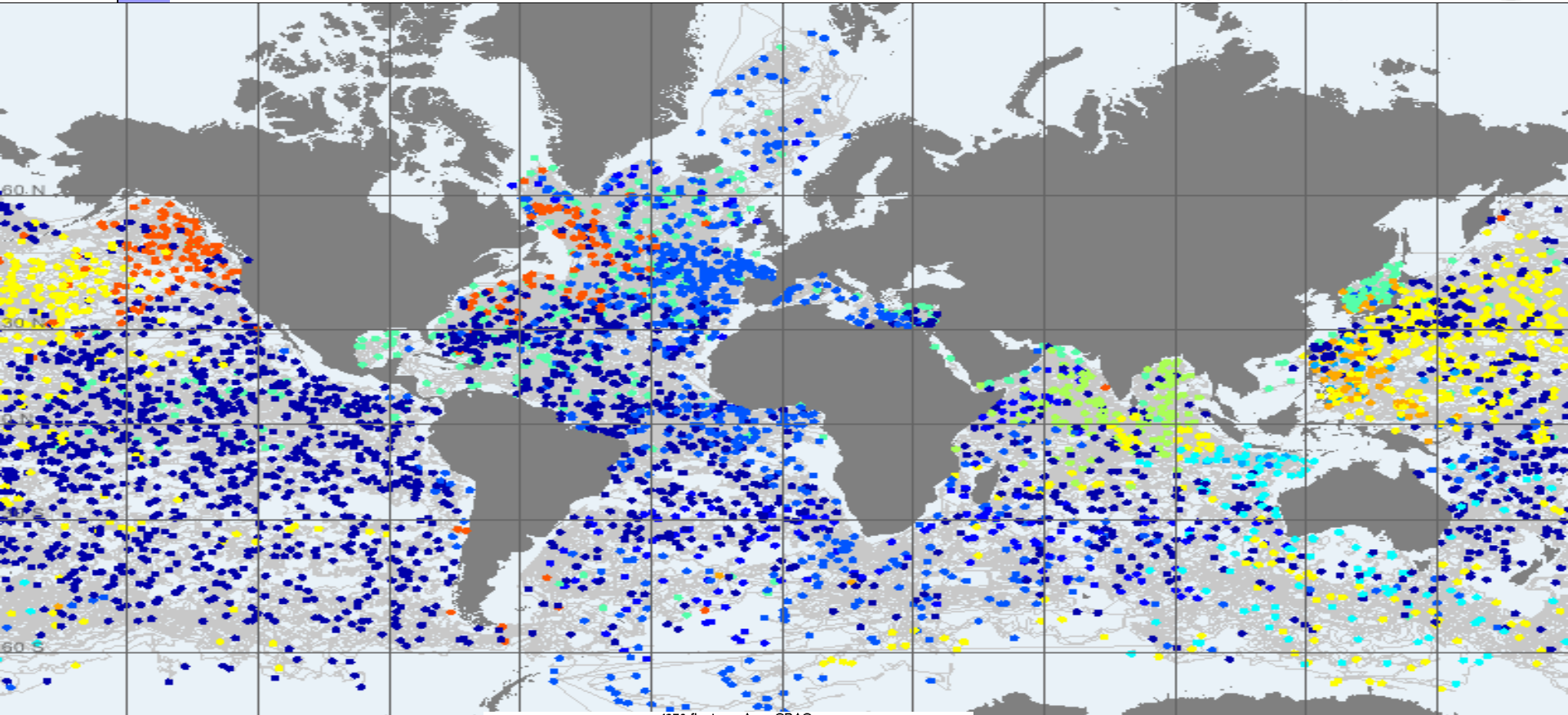


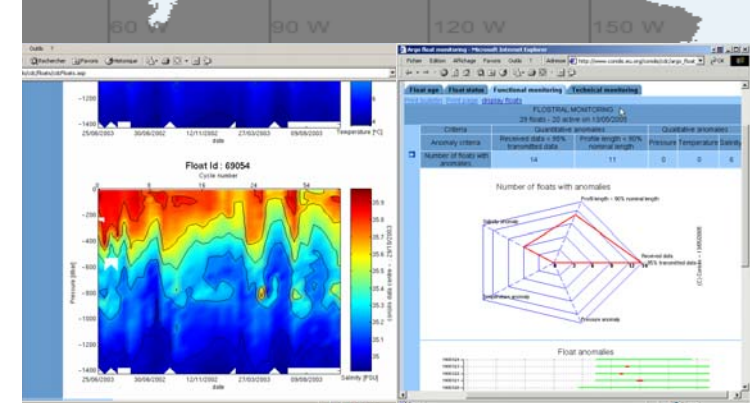
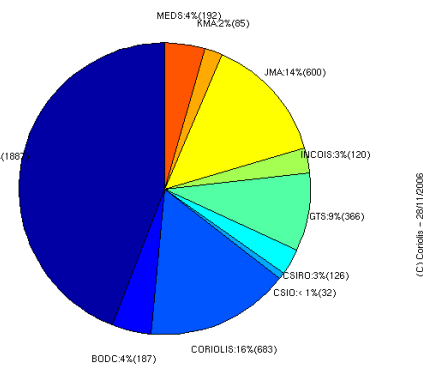
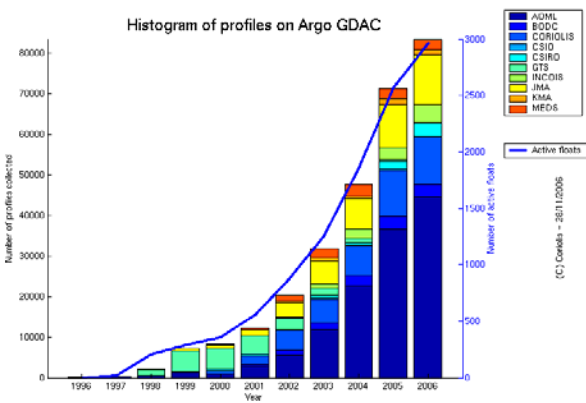
# Argo data status & data access

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4278 floats on Argo GDAC



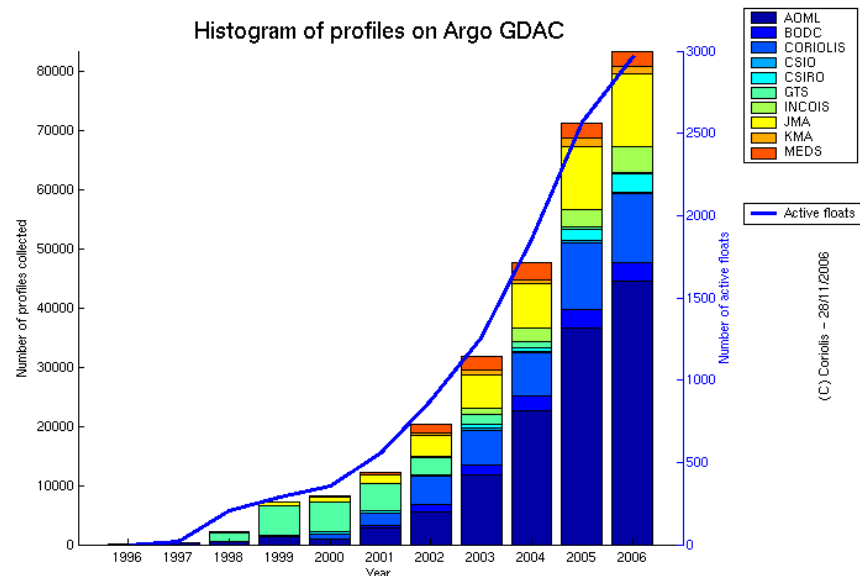
# Status of the float array on GDAC

[http://www.coriolis.eu.org/cdc/argo/argo\\_gdac\\_monitoring.htm](http://www.coriolis.eu.org/cdc/argo/argo_gdac_monitoring.htm)

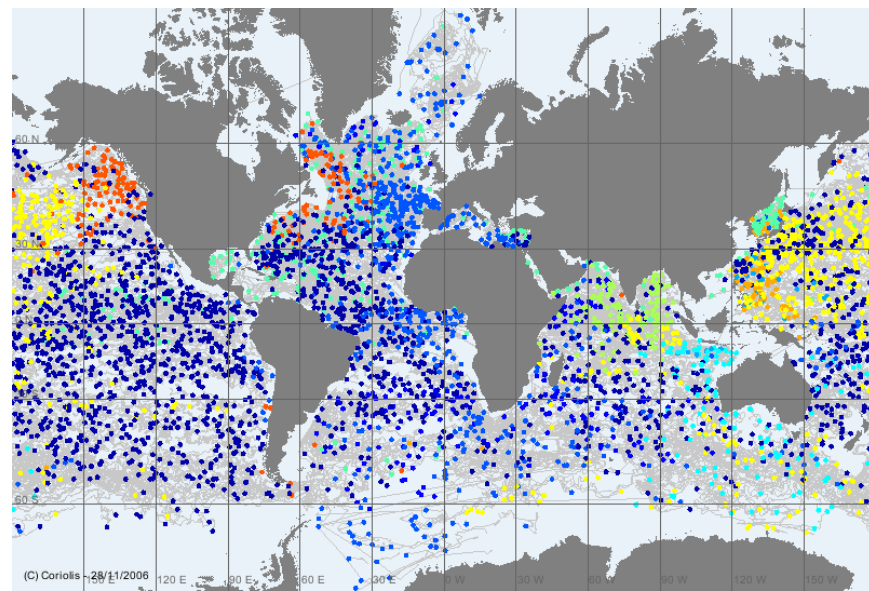
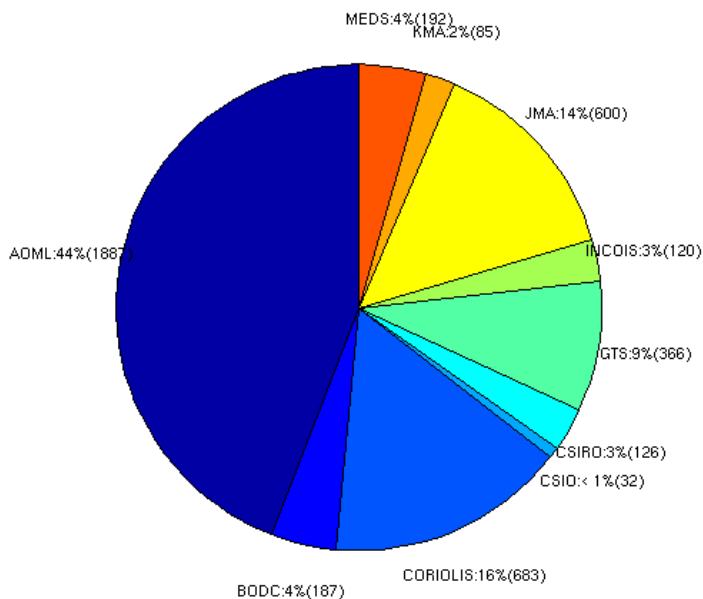
Statistics on Argo GDAC are regularly updated at [argo\\_gdac\\_monitoring.htm](http://www.coriolis.eu.org/cdc/argo/argo_gdac_monitoring.htm)

- [Active floats statistics](#)
- [All floats statistics](#)
- [Meta-data monitoring](#)
- [Delayed mode statistics](#)

Histogram of profiles on Argo GDAC



4278 floats on Argo GDAC



# Real time status : data on GTS monitored by MEDS

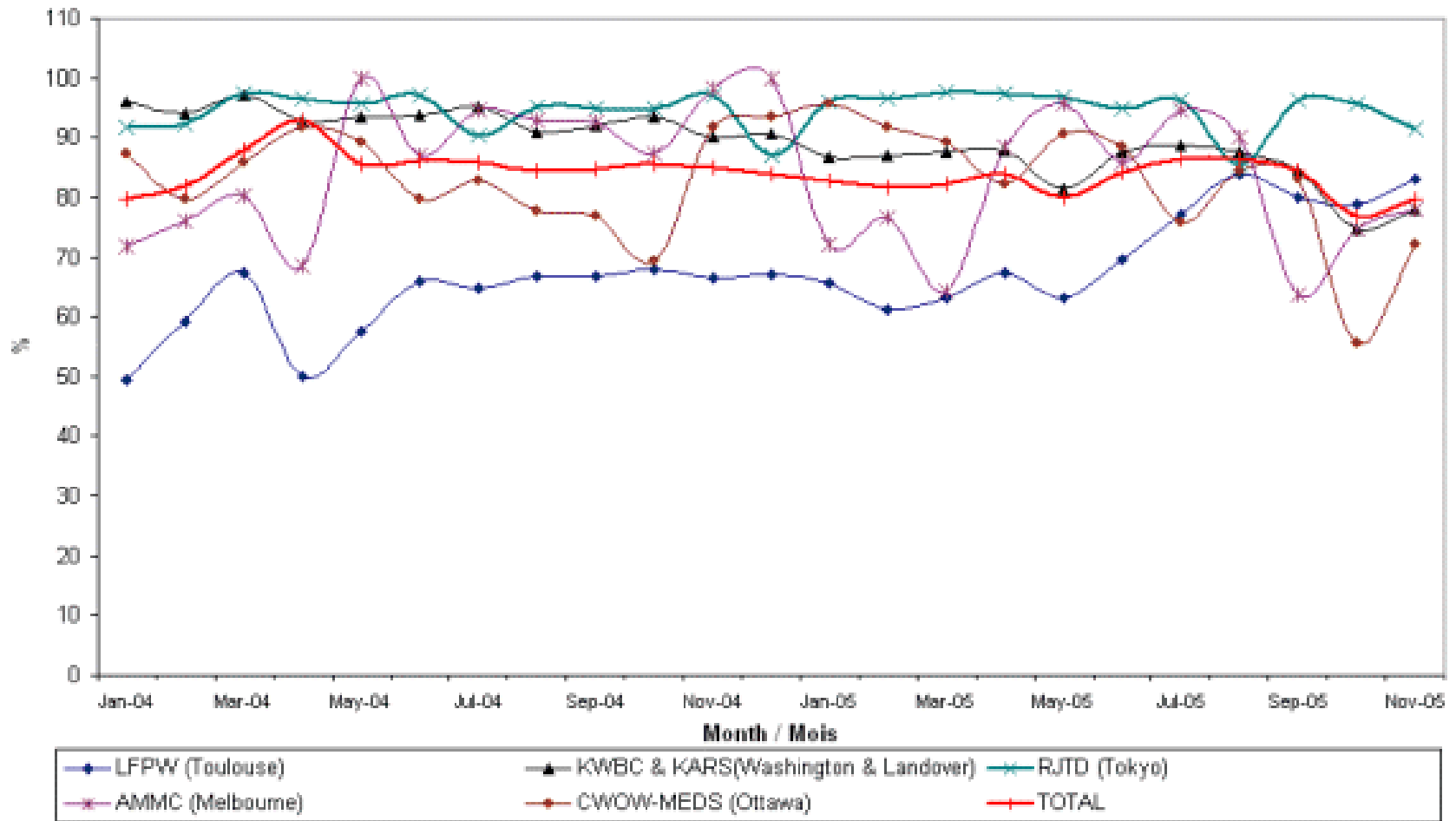
Argo workshop in Ghana, December 2006



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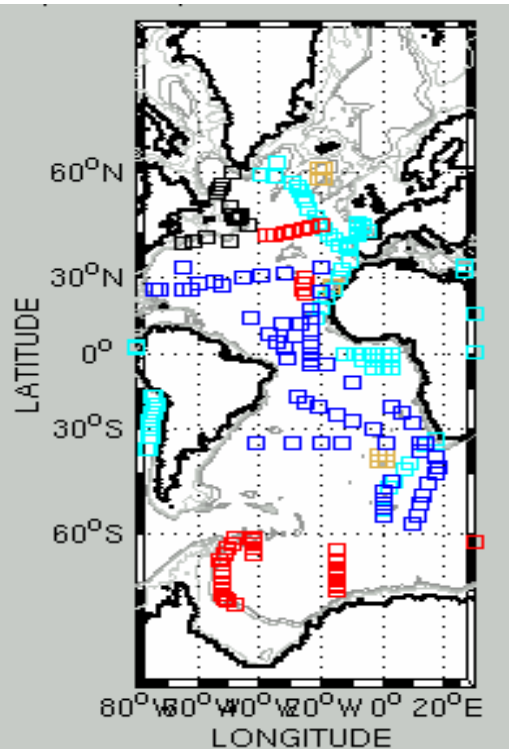
Percentage of Argo TESACs on the GTS within 24 hours /  
Pourcentage des TESACs Argo sur le SMT en deçà de 24 heures



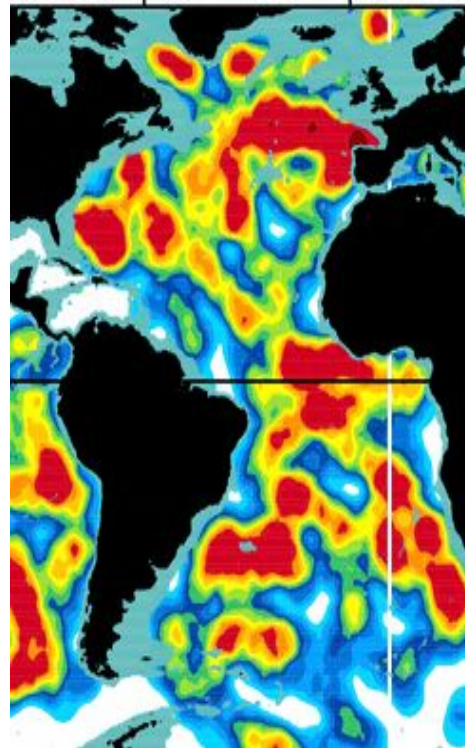
MEDS/SDMM 05/12/2005

# Regional monitoring : example of North Atlantic RDAC

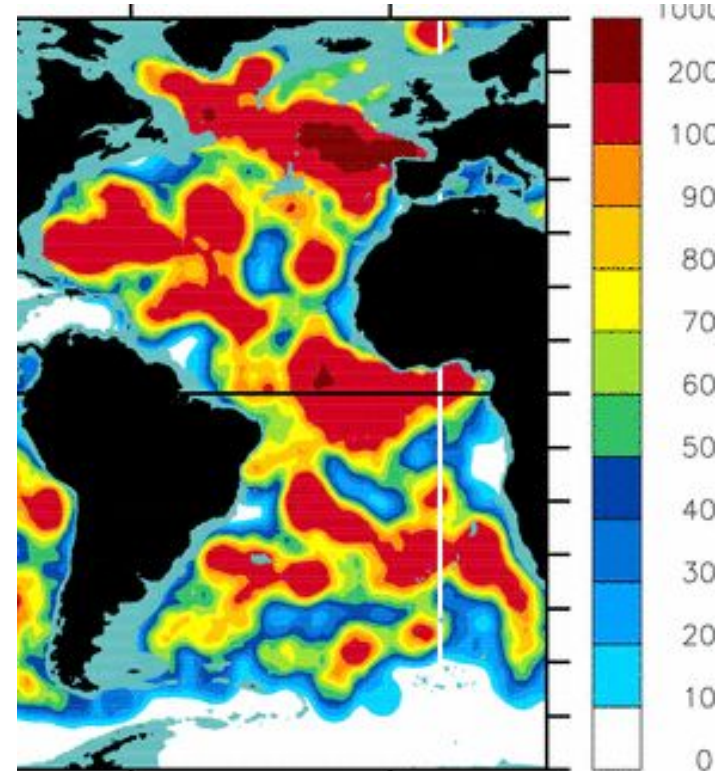
- NARDAC performs a regular monitoring for deployment coordination  
The goal is to achieve a regular density of one float per 3\*3 degree  
**Red** : the float density is correct



planned  
deployments



January 2006

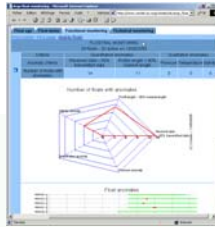


September 2006



# Regional monitoring : example of North Atlantic RDAC

- NARDAC performs a regular monitoring for all deployed floats

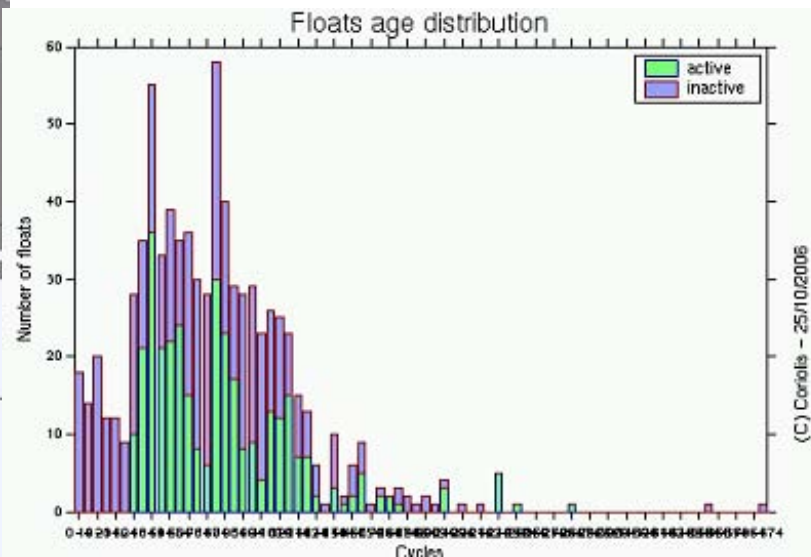
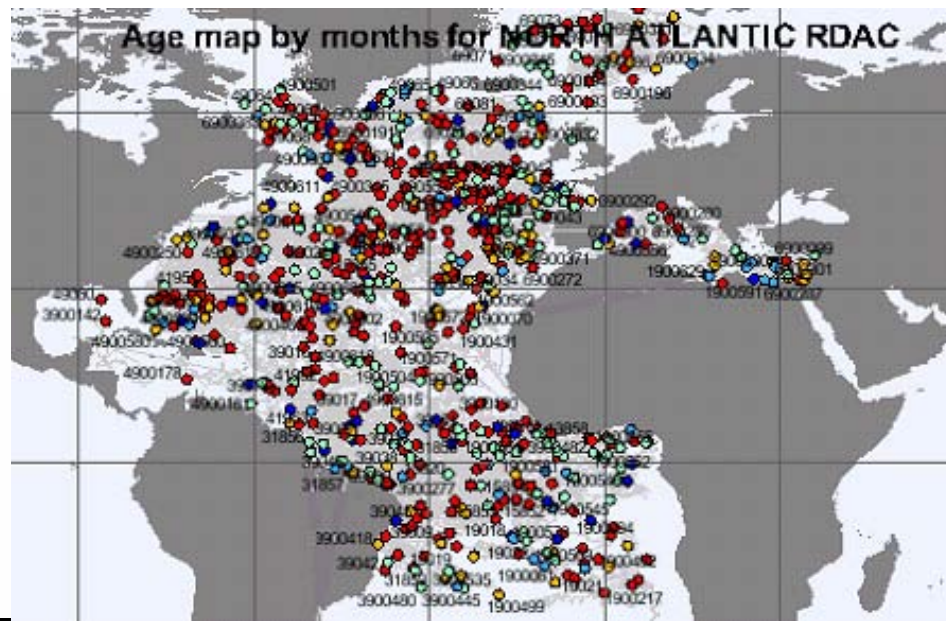


## Floats monitoring

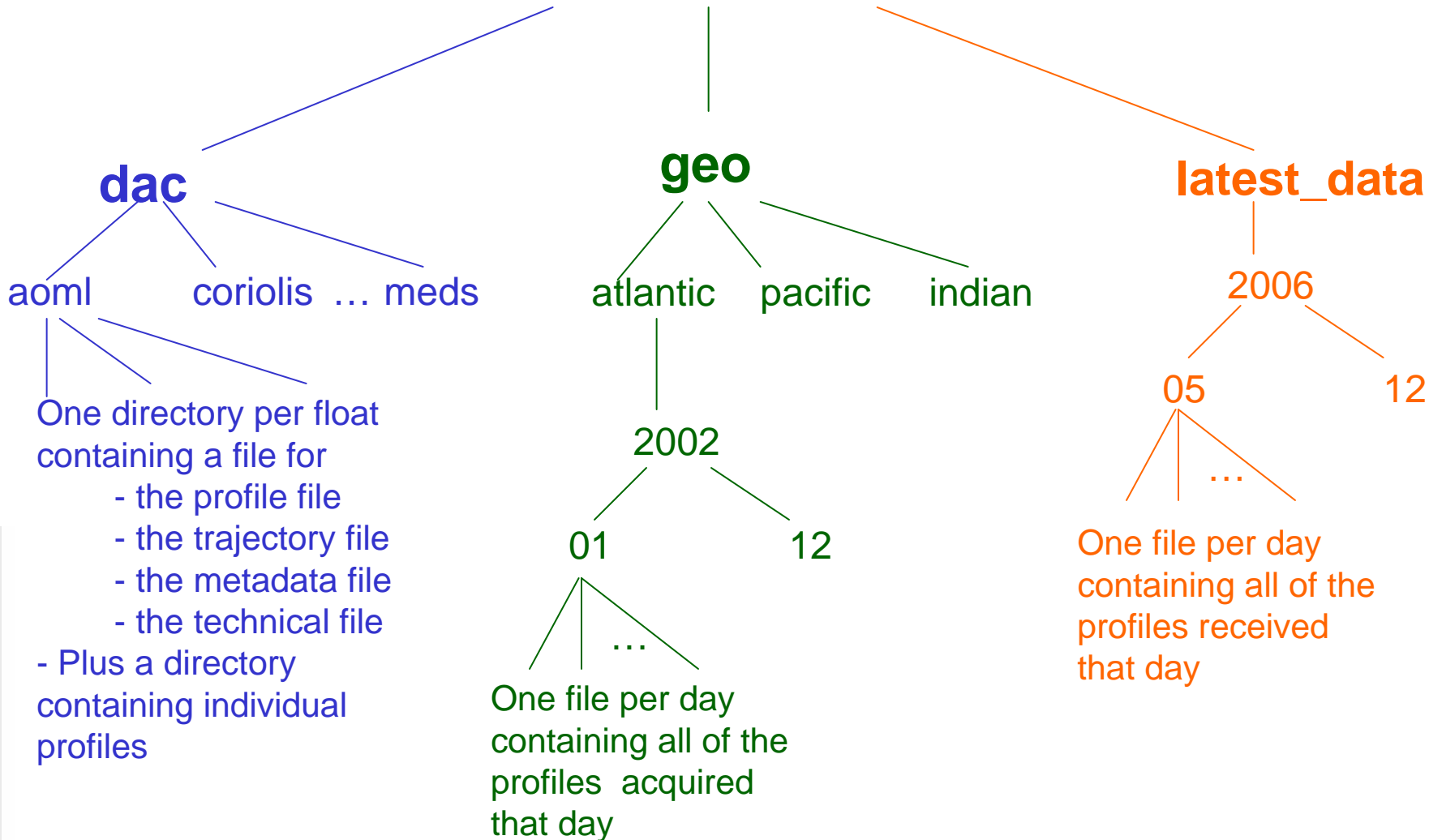
[Float age](#)
[Float status](#)
[Functional monitoring](#)
[Technical monitoring](#)

[Print bulletin](#)
[Print page](#)
[display floats](#)

NORTH ATLANTIC RDAC							
777 floats - 336 active on 25/10/2006							
All Floats			Active		Inactive		
Deployed	Active (%)	Number of performed profiles	Maximum number of performed cycles	Average number of cycles	Maximum number of performed cycles	Less than 5 cycles performed (%)	Average number of cycles
777	43.24	59411	274	80.2	379	4.08	71.29



## global FTP server

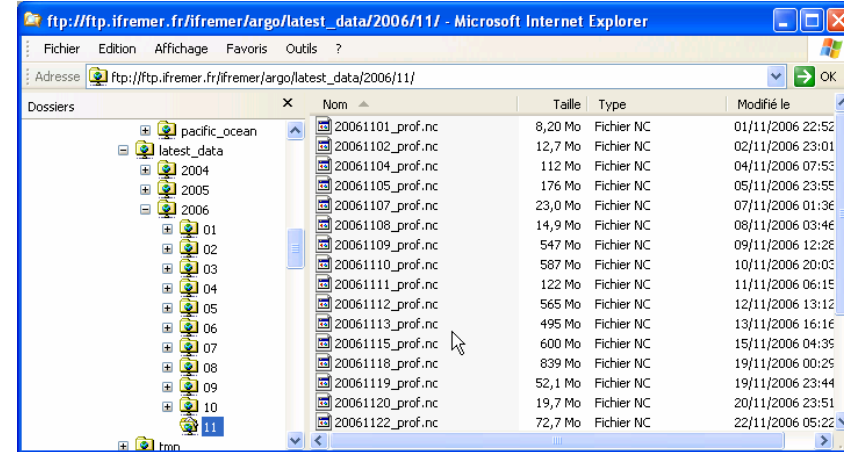
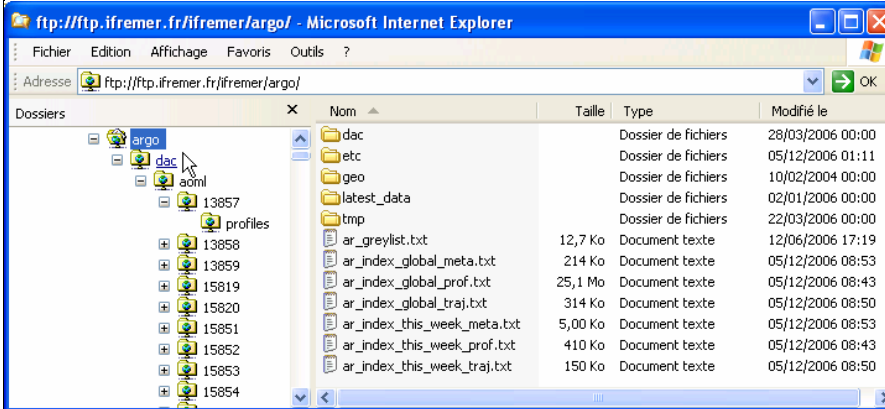


# GDac root

<ftp://usgodae1.fnmoc.navy.mil/pub/outgoing/argo>

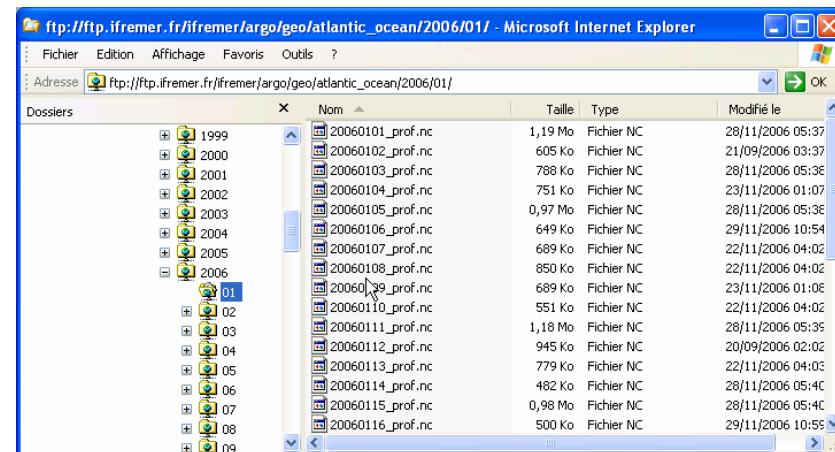
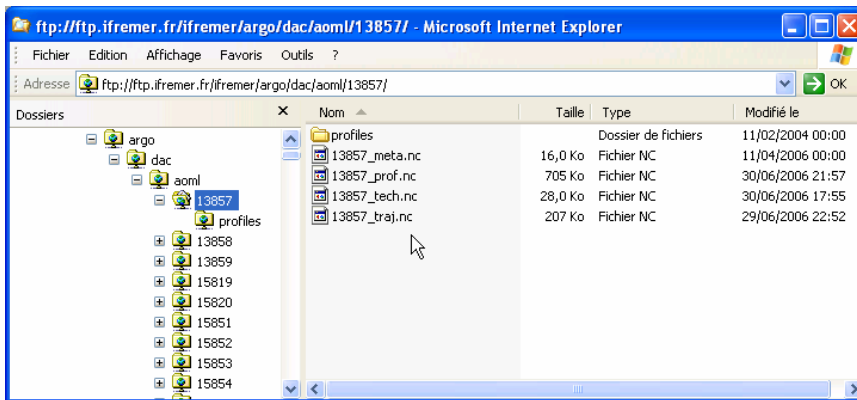
<ftp://ftp.ifremer.fr/ifremer/argo>

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# GDAC root

# DAC / latest data



# DAC / floats

# DAC / geo



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# Index files, grey-list

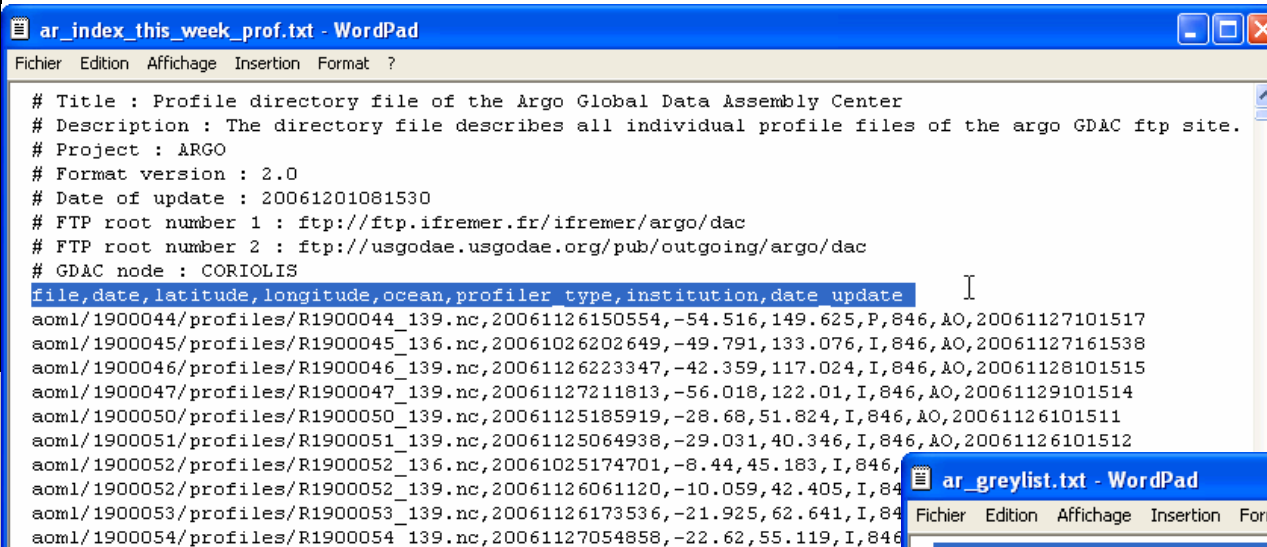
## ■ Continuously updated at the top directory :

### ■ Index files for profiles, trajectories and meta-data

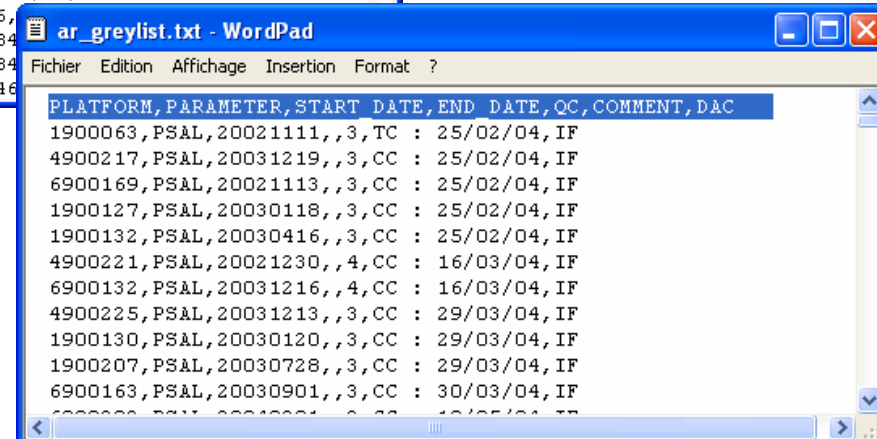
file,date,latitude,longitude,ocean,profiler\_type,institution,date\_update

### ■ Grey-list for sensor malfunctions (see QC test 15)

PLATFORM,PARAMETER,START\_DATE,END\_DATE,QC,COMMENT,DAC



```
# Title : Profile directory file of the Argo Global Data Assembly Center
# Description : The directory file describes all individual profile files of the argo GDAC ftp site.
# Project : ARGO
# Format version : 2.0
# Date of update : 20061201081530
# FTP root number 1 : ftp://ftp.ifremer.fr/ifremer/argo/dac
# FTP root number 2 : ftp://usgodae.usgodae.org/pub/outgoing/argo/dac
# GDAC node : CORIOLIS
file,date,latitude,longitude,ocean,profiler_type,institution,date_update
aoml/1900044/profiles/R1900044_139.nc,20061126150554,-54.516,149.625,P,846,AO,20061127101517
aoml/1900045/profiles/R1900045_136.nc,20061026202649,-49.791,133.076,I,846,AO,20061127161538
aoml/1900046/profiles/R1900046_139.nc,20061126223347,-42.359,117.024,I,846,AO,20061128101515
aoml/1900047/profiles/R1900047_139.nc,20061127211813,-56.018,122.01,I,846,AO,20061129101514
aoml/1900050/profiles/R1900050_139.nc,20061125185919,-28.68,51.824,I,846,AO,20061126101511
aoml/1900051/profiles/R1900051_139.nc,20061125064938,-29.031,40.346,I,846,AO,20061126101512
aoml/1900052/profiles/R1900052_136.nc,20061025174701,-8.44,45.183,I,846,AO,20061126101511
aoml/1900052/profiles/R1900052_139.nc,20061126061120,-10.059,42.405,I,846,AO,20061126101511
aoml/1900053/profiles/R1900053_139.nc,20061126173536,-21.925,62.641,I,846,AO,20061126101511
aoml/1900054/profiles/R1900054_139.nc,20061127054858,-22.62,55.119,I,846,AO,20061127101517
```



```
PLATFORM,PARAMETER,START_DATE,END_DATE,QC,COMMENT,DAC
1900063,PSAL,20021111,,3,TC : 25/02/04,IF
4900217,PSAL,20031219,,3,CC : 25/02/04,IF
6900169,PSAL,20021113,,3,CC : 25/02/04,IF
1900127,PSAL,20030118,,3,CC : 25/02/04,IF
1900132,PSAL,20030416,,3,CC : 25/02/04,IF
4900221,PSAL,20021230,,4,CC : 16/03/04,IF
6900132,PSAL,20031216,,4,CC : 16/03/04,IF
4900225,PSAL,20031213,,3,CC : 29/03/04,IF
1900130,PSAL,20030120,,3,CC : 29/03/04,IF
1900207,PSAL,20030728,,3,CC : 29/03/04,IF
6900163,PSAL,20030901,,3,CC : 30/03/04,IF
```





# Argo data management references documents

## ■ Reference documents

- Data management web page : [http://www.coriolis.eu.org/cdc/argo/argo\\_data\\_management.htm](http://www.coriolis.eu.org/cdc/argo/argo_data_management.htm)
- Beginner's guide to Argo data : [http://www.coriolis.eu.org/cdc/argo/Argo\\_data\\_guide.pdf](http://www.coriolis.eu.org/cdc/argo/Argo_data_guide.pdf)
- Data management policy : [http://www.coriolis.eu.org/cdc/argo/argo\\_data\\_management\\_handbook.pdf](http://www.coriolis.eu.org/cdc/argo/argo_data_management_handbook.pdf)
- GDACs organization : [http://www.coriolis.eu.org/cdc/argo/gdac\\_argo\\_servers\\_24.pdf](http://www.coriolis.eu.org/cdc/argo/gdac_argo_servers_24.pdf)
- User's manual; data formats : [http://www.coriolis.eu.org/cdc/argo/argo\\_data\\_user\\_manual.pdf](http://www.coriolis.eu.org/cdc/argo/argo_data_user_manual.pdf)
- Quality control manual : [http://www.coriolis.eu.org/cdc/argo/argo\\_quality\\_control\\_manual.pdf](http://www.coriolis.eu.org/cdc/argo/argo_quality_control_manual.pdf)

## ■ Data access

- The whole Argo data set is available in real time and delayed mode from the global data centres (GDACs). The internet addresses are :
  - <http://www.usgodae.org/argo/argo.html>
  - <http://www.coriolis.eu.org/cdc>
- The FTP addresses are :
  - <ftp://usgodae1.fnmoc.navy.mil/pub/outgoing/argo>
  - <ftp://ftp.ifremer.fr/ifremer/argo>
- Data discovery : Live Access Server
  - <http://usgodae2.usgodae.org/las/servlets/dataset>
  - <http://www.usgodae.org/docs/lasget.html>
  - <http://www.ifremer.fr/las/servlets/dataset>
- Data discovery : web interface
  - [http://www.usgodae.org/cgi-bin/argo\\_select.pl](http://www.usgodae.org/cgi-bin/argo_select.pl)
  - <http://www.coriolis.eu.org/cdc/ArgoZonalDataSelection/cdcArgoZonalDataSelections.asp>
  - <http://www.coriolis.eu.org/cdc/dataSelection/cdcDataSelections.asp>

Data access : OpenDAP

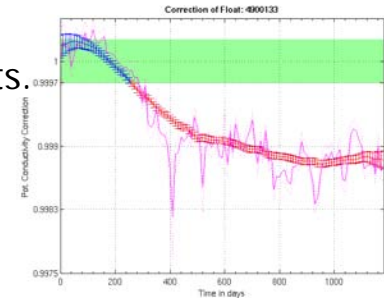
- <http://www.usgodae.org/cgi-dods/nph-dods/ftp/outgoing/argo>
- <http://www.ifremer.fr/cgi-bin/nph-dods/data/in-situ/argo>



# Tools for Argo data usage

- Matlab : <http://www.mathworks.com/>

Matlab is used for delayed mode processes : salinity correction, deep currents. An excellent commercial software for scientific data handling.



- ODV : <http://odv.awi-bremerhaven.de/>

An excellent free software to handle ocean data.

Developped by AWI during Woce experiment, continuously upgraded (eg : for SeaDatatnet EU project).

- NcBrowse : <http://www.epic.noaa.gov/java/ncBrowse/>

An excellent free software to browse NetCDF data.

Developped by NOAA.

- Ferret : <http://ferret.wrc.noaa.gov/Ferret/>

An excellent free software to handle model and in-situ observations.

Developped by NOAA.

- Google: <http://www.coriolis.eu.org/cdc/>

An excellent way to explore Argo and other observations networks

[Profiles](#), [trajectories](#)

- ETC...



NcBrowse : <http://www.epic.noaa.gov/java/ncBrowse/>

Argo workshop in Ghana, December 2006

1900546\_prof.nc (local) - NetCDF File Browser

File Edit View Window Help

File: 1900546\_prof.nc (local)

Attributes: 0

Dimensions: 13

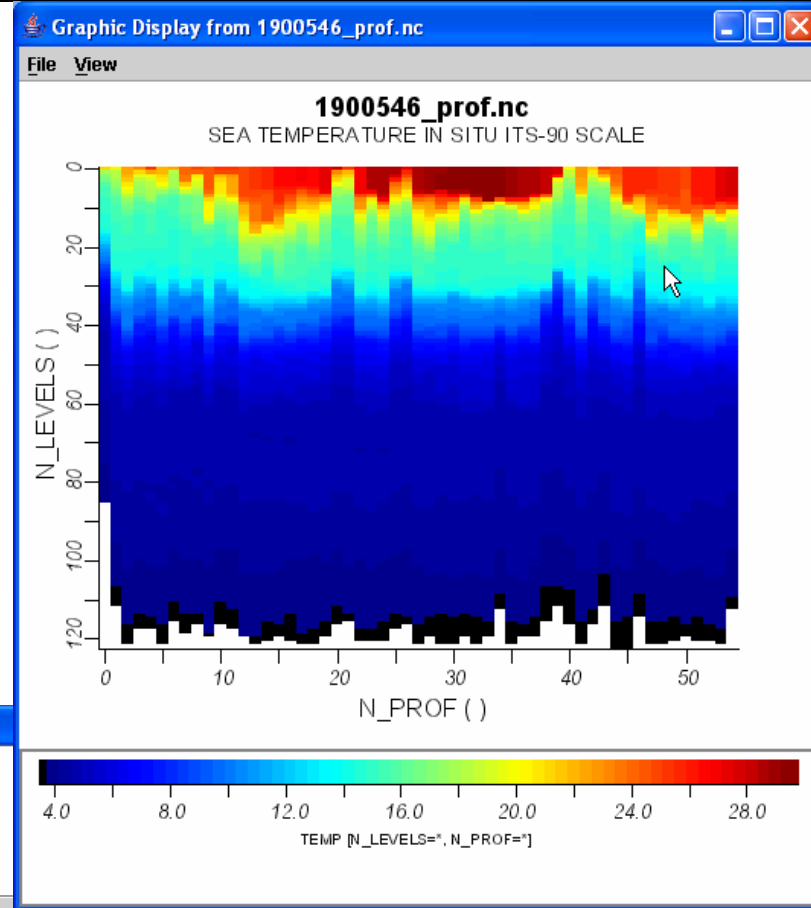
Variables: 60

Select Variable for Display

- PSAL\_ADJUSTED\_ERROR
- TEMP
- TEMP\_QC
- TEMP\_ADJUSTED
- TEMP\_ADJUSTED\_QC
- TEMP\_ADJUSTED\_ERROR
- PARAMETER

New Map...

SEA TEMPERATURE IN SITU ITS-90 SCALE



TEMP from 1900546\_prof.nc (Domain Selector)

```
float TEMP(N_PROF, N_LEVELS);  
:long_name = "SEA TEMPERATURE IN SITU ITS-90 SCALE";  
:_FillValue = 99999.0; // float  
:units = "degree_Celsius";  
:valid_min = -2.0; // float  
:valid_max = 40.0; // float  
:comment = "In situ measurement";
```

Axes

Name	Units	Dependent Variable		Reverse	Start	End
		x	y			
N_PROF	(index)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	54
N_LEVELS	(index)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	122

Graph Variable Close

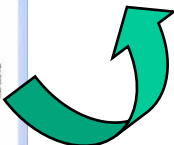
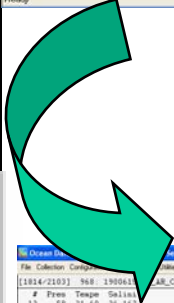
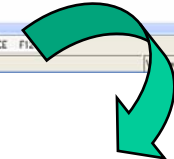
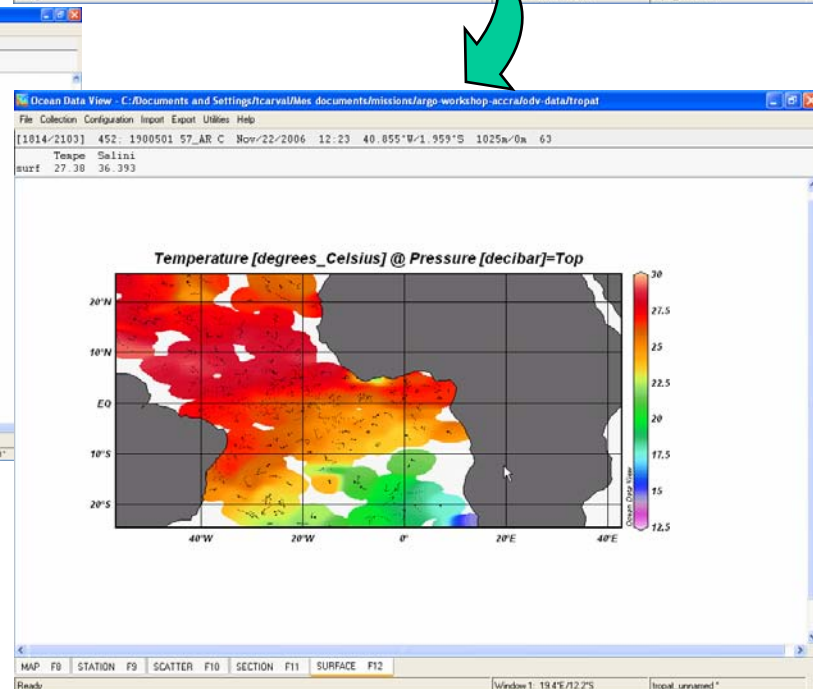
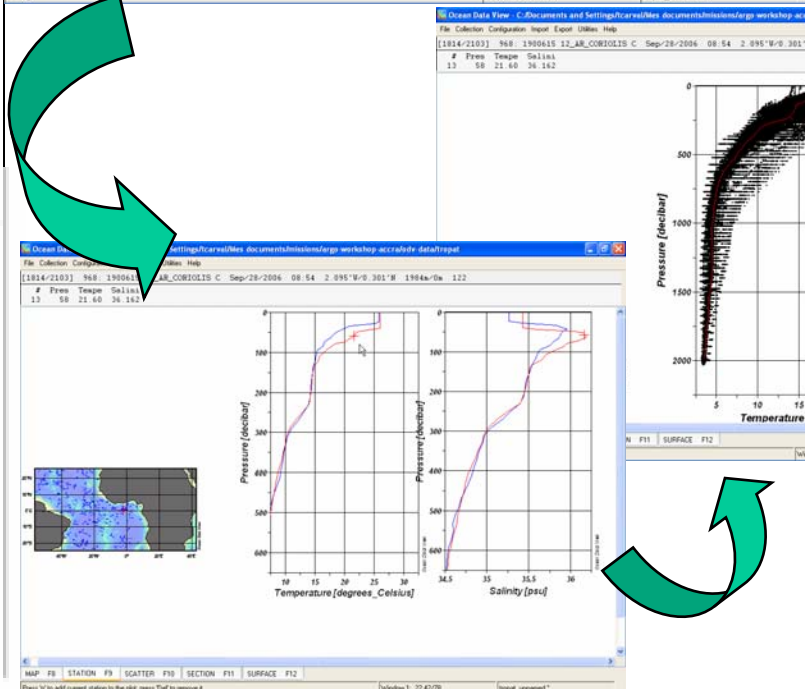
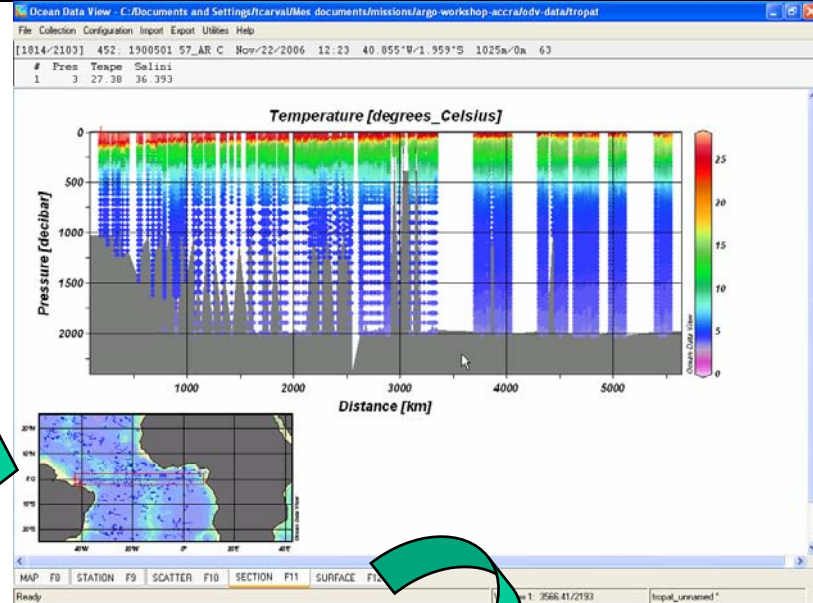
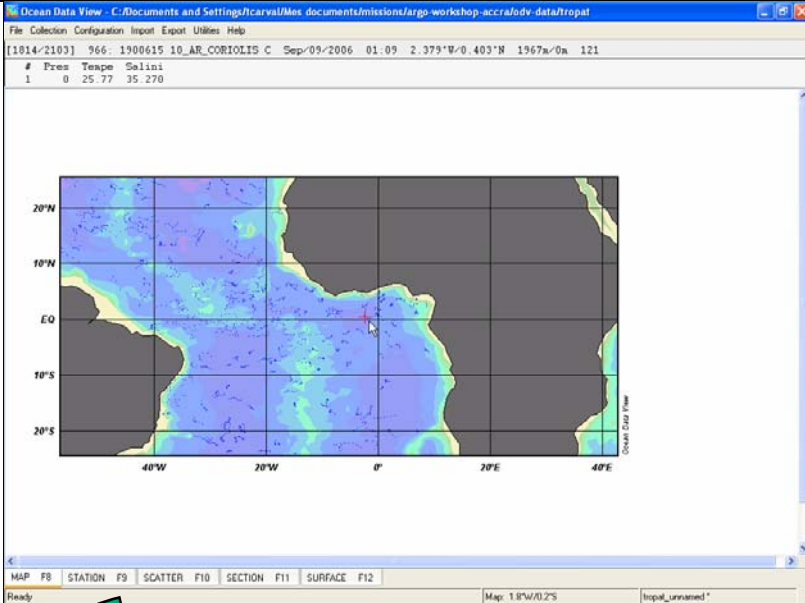


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# Ocean Data View

<http://odv.awi-bremerhaven.de/>

Argo workshop in Ghana, December 2006



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