Argo Information Centre

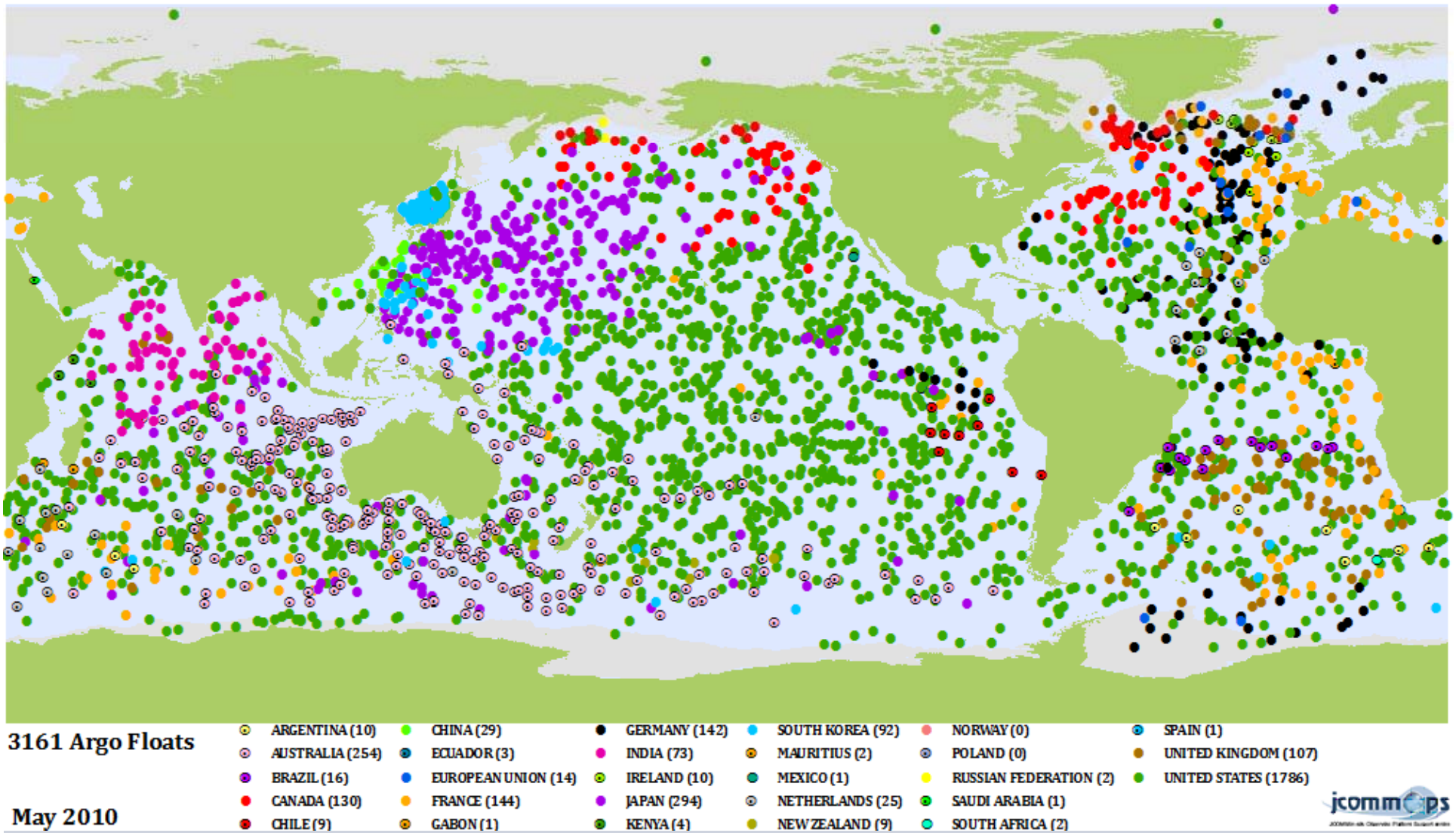
jcommops

Argo Information Centre & EuroArgo Users

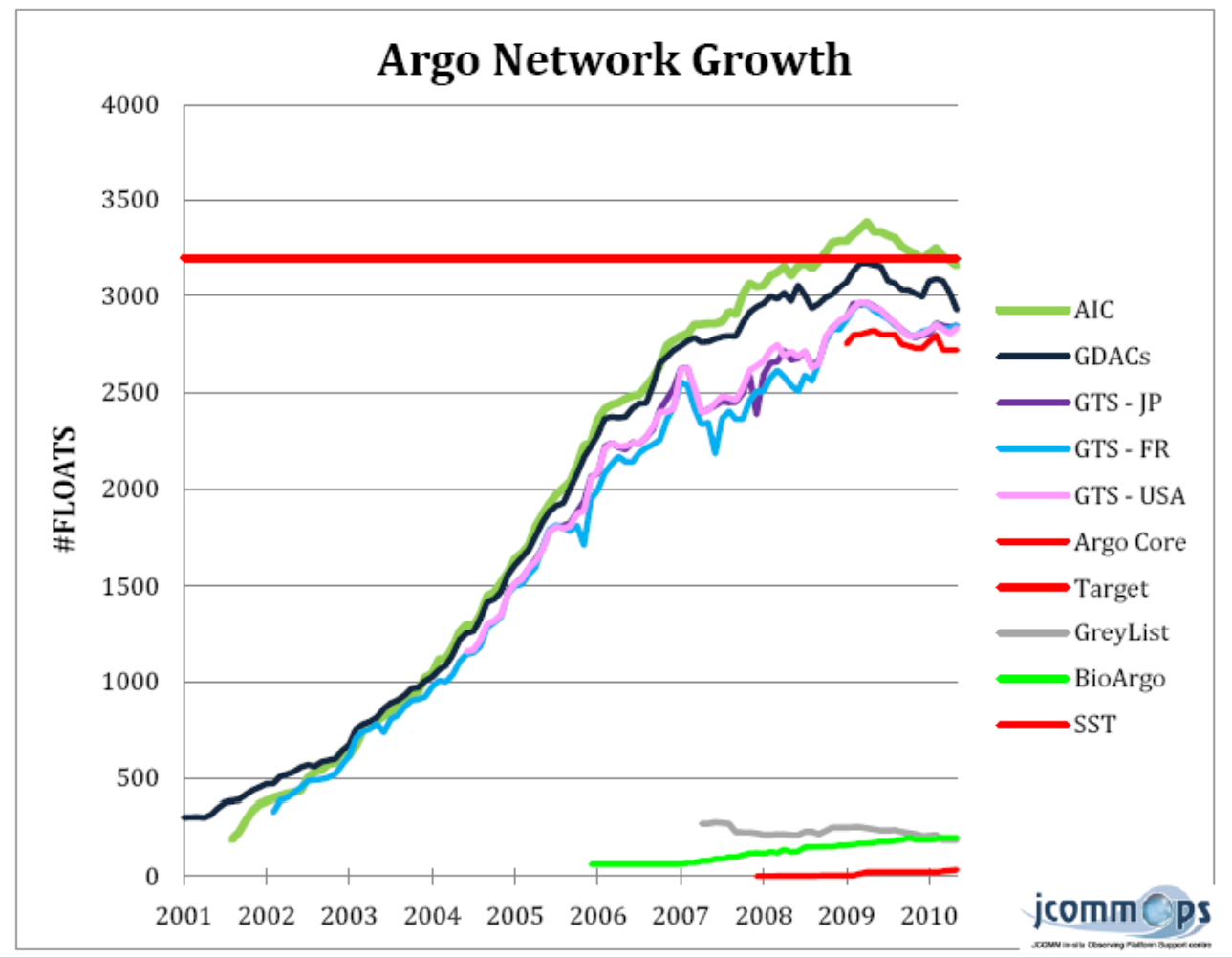
EuroArg o User Workshop#3

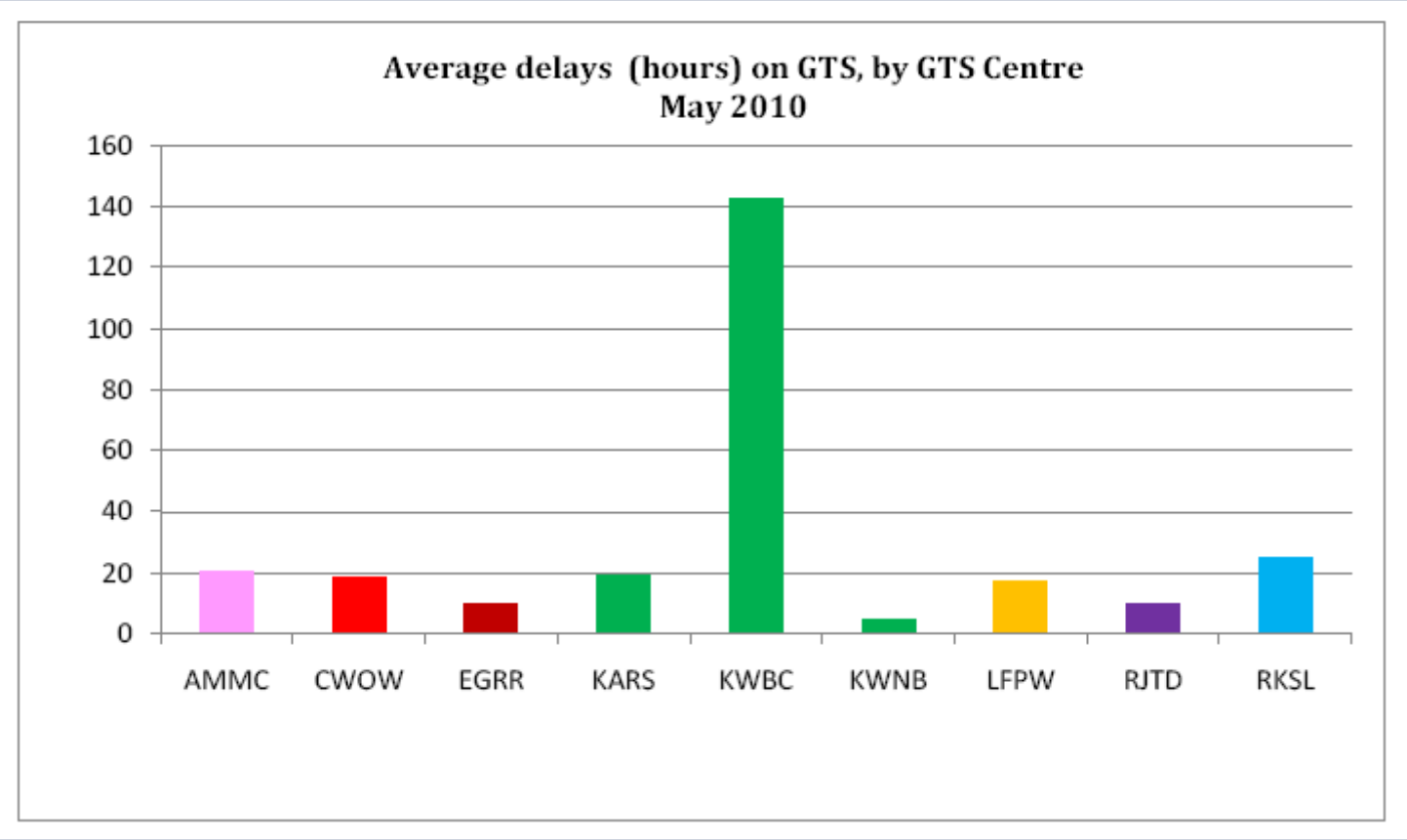
June 2010

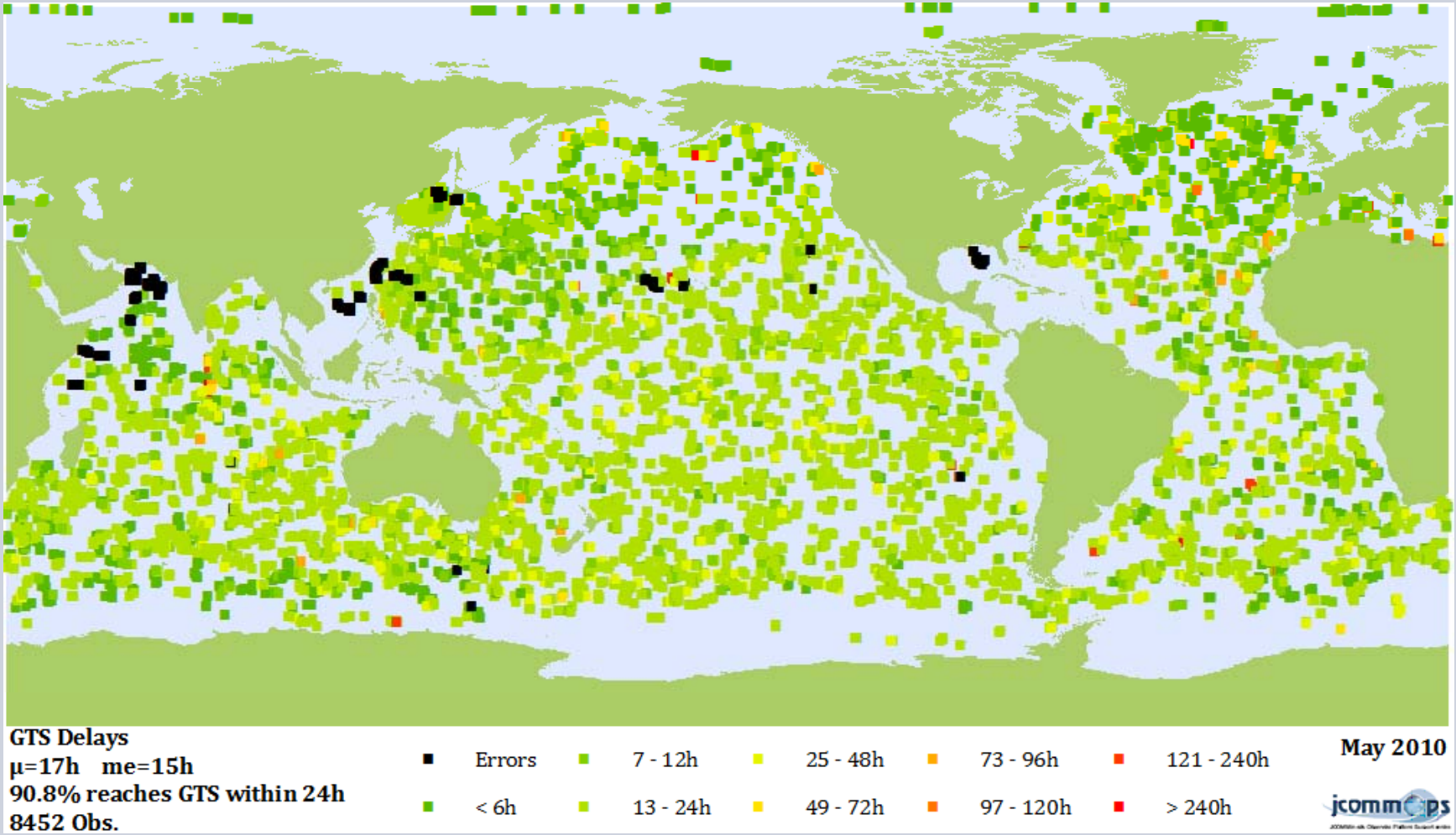
http://argo.jcommops.org

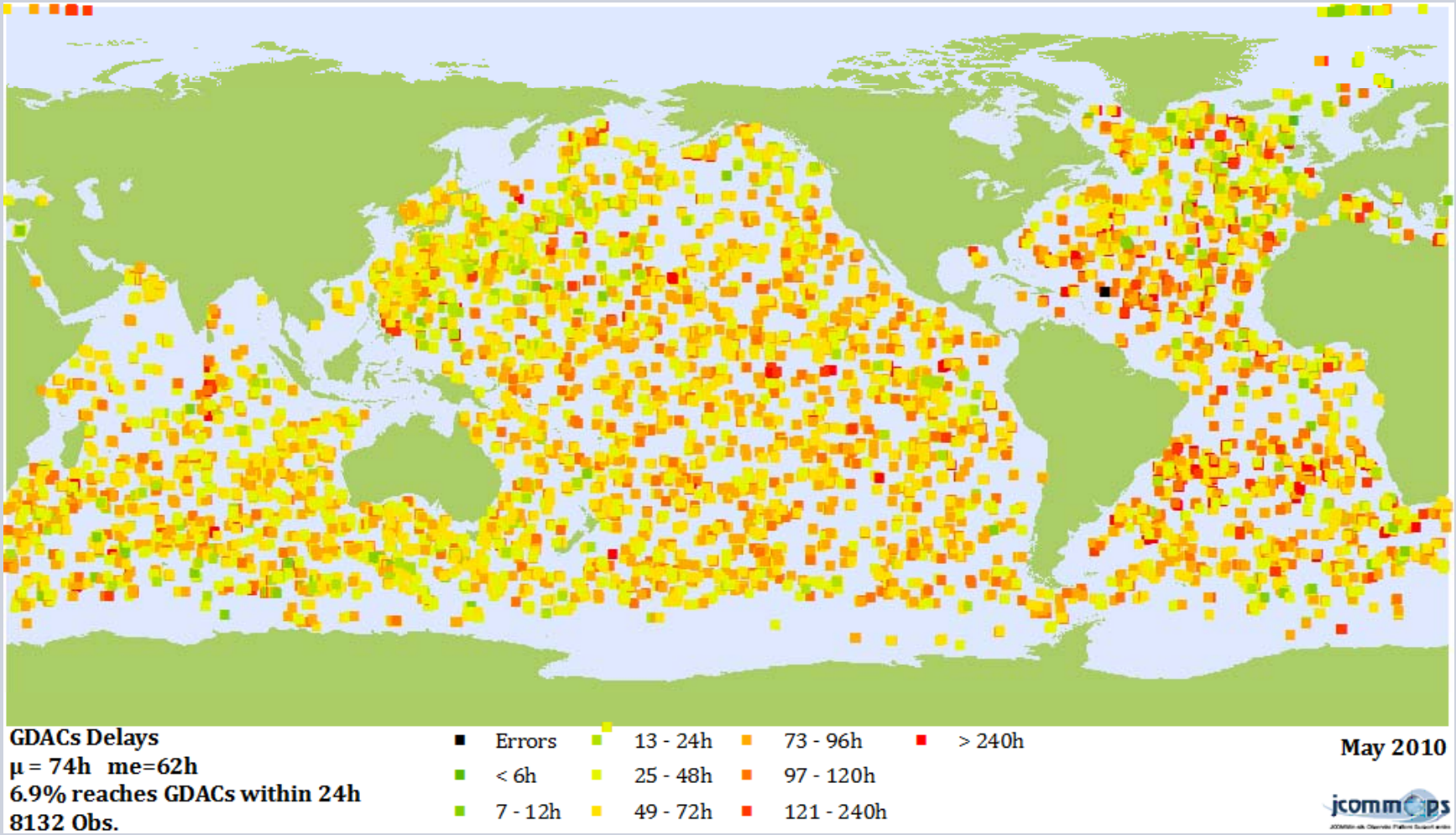


Growing involvement of Europe is crucial …


Argo Network Growth
#FLOATS
4000
3500
3000
2500
2000
1500
1000
500
0
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
AIC
GDACs
GTS - JP
GTS - FR
GTS - USA
Argo Core
Target
GreyList
BioArgo
SST
jcommops


Average delays (hours) on GTS, by GTS Centre
May 2010
160
140
120
100
80
60
40
20
0
AMMC
CWOW
EGRR
KARS
KWBC
KWNB
LFPW
RJTD
RKSL


GTS Delays
µ=17h me=15h
90.8% reaches GTS within 24h
8452 Obs.
Errors
< 6h
7 - 12h
13 - 24h
25 - 48h
49 - 72h
73 - 96h
97 - 120h
121 - 240h
> 240h
May 2010
jcommops


GDACs Delays
μ = 74h me=62h
6.9% reaches GDACs within 24h
8132 Obs.
Errors
< 6h
7 - 12h
13 - 24h
25 - 48h
49 - 72h
73 - 96h
97 - 120h
121 - 240h
> 240h
May 2010
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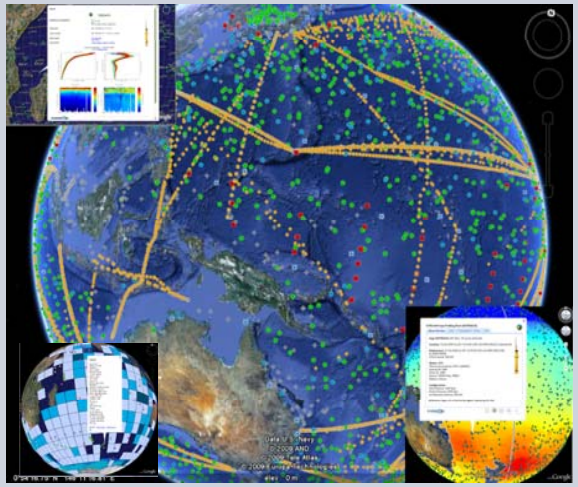
International Argo Infrastructure

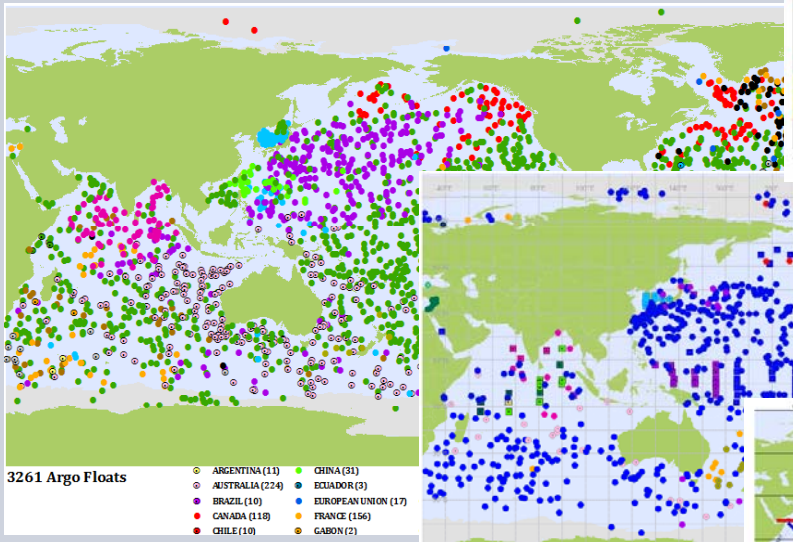
- The AIC was established in 2001 (Toulouse/CLS)
  - TC is an IOC/UNESCO employee funded by Argo national programmes
  - Guidance by the Argo Steering Team in close cooperation with international organizations
- close cooperation with the Argo Project Office (Scripps/San Diego)
- The AIC is the Argo component of JCOMMOPS
- JCOMMOPS: **JCOMM (IOC/WMO) Observing Programme Support Centre**
  - **Argo, DBCP,** SOT, OceanSITES
  - **2 technical coordinators (1 position being renewed for DBCP coordination)**
  - **1 scientific coordinator**
  - **1 software developer**
  - **Students**

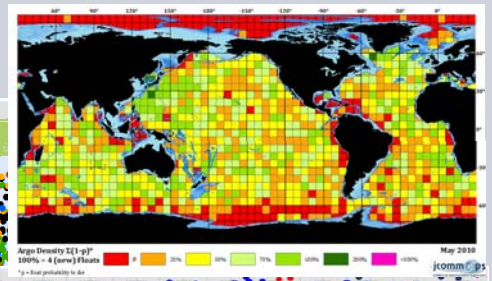
AIC/JCOMMOPS Activities: Monitoring, Assistance, Cooperation.

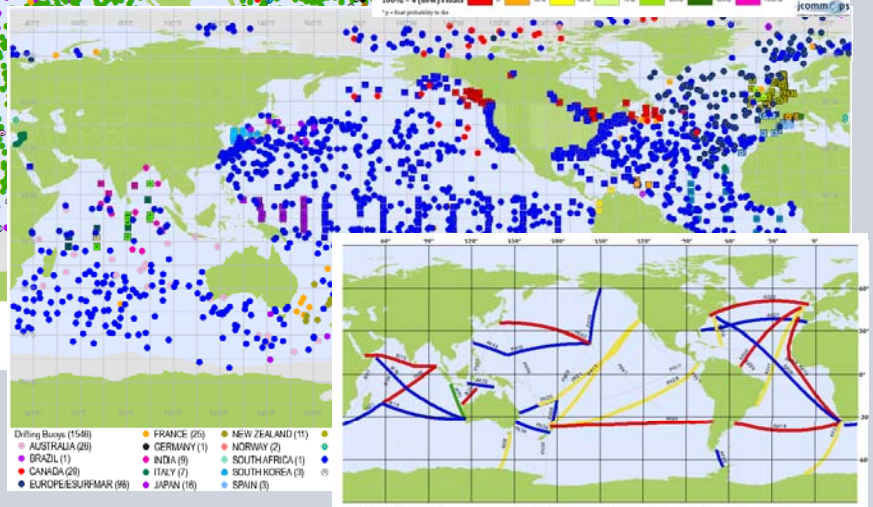
- **monitor** and **evaluate** the performance of the networks
- assist in the **planning**, **implementation** and **operations** of the observing systems
- act as a **clearing house** and **focal point** on all programme aspects
- provide up to date, comprehensive information on status of observing system
- assist in **data distribution** on the Internet and GTS
- encourage **cooperation** between communities and member states
- relay user **feedback on data quality** to platform operators
- provide **technical assistance** and **user support worldwide**
- develop **synergies** between observing systems

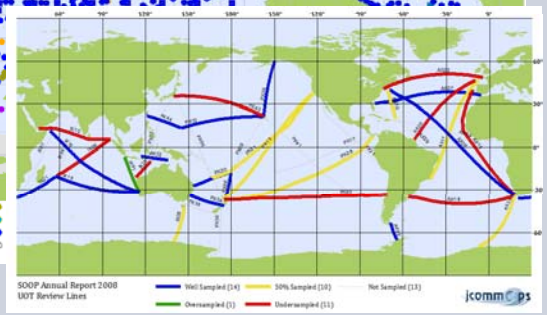
Products & Services: Examples











Real-time ...

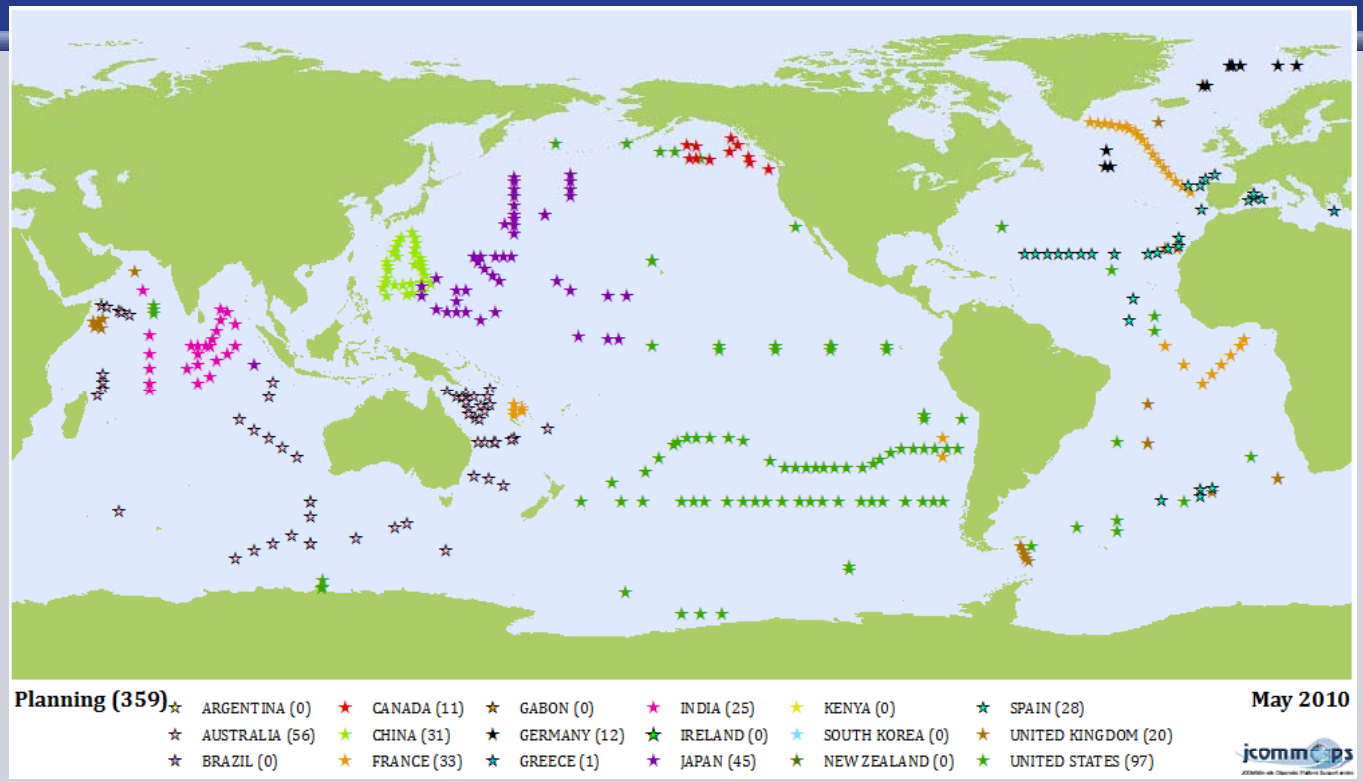
Very early on, JCOMMOPS provided online, interactive GIS–based, real-time tracking tools for ocean platforms and is now working on a partnership with Google to include JCOMM/GOOS observing system status and products within Google Ocean

Interoperability targeted: Web Map Services, XML metadata exports, etc.

Monthly ...

JCOMMOPS Status maps are widely recognized as authoritative and giving an up-to-date, verified status of the arrays, encouraging community to share the data and showing how the programmes assess and meet their requirements

Planning (for implementers and users …)

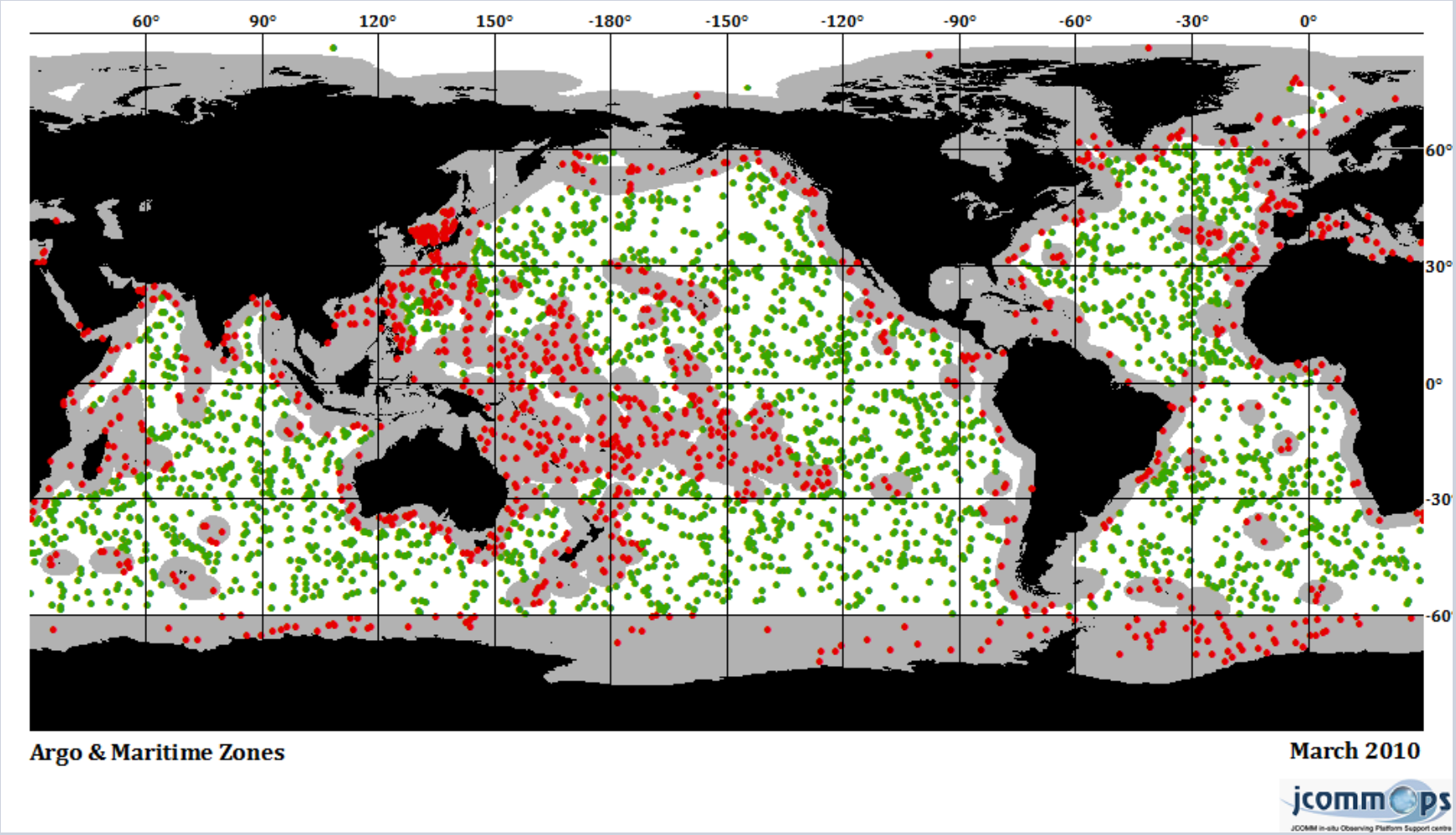


All profiling float MUST be registered at the AIC before their deployment

-Make sure someone takes care of this seriously, and regularly

-This engage a national responsibilities as float will likely drift in other MS EEZ (e-notification)

Your colleagues need to know in advance where you are going to deploy your floats (avoid overlaps, share opportunities)


60°
90°
120°
150°
-180°
-150°
-120°
-90°
-60°
-30°
0°
60°
30°
0°
-30°
-60°
Argo & Maritime Zones
March 2010
jcommops
JCOMM in-situ Observing Platform Support centre

AIC/JCOMMOPS & EuroArgo

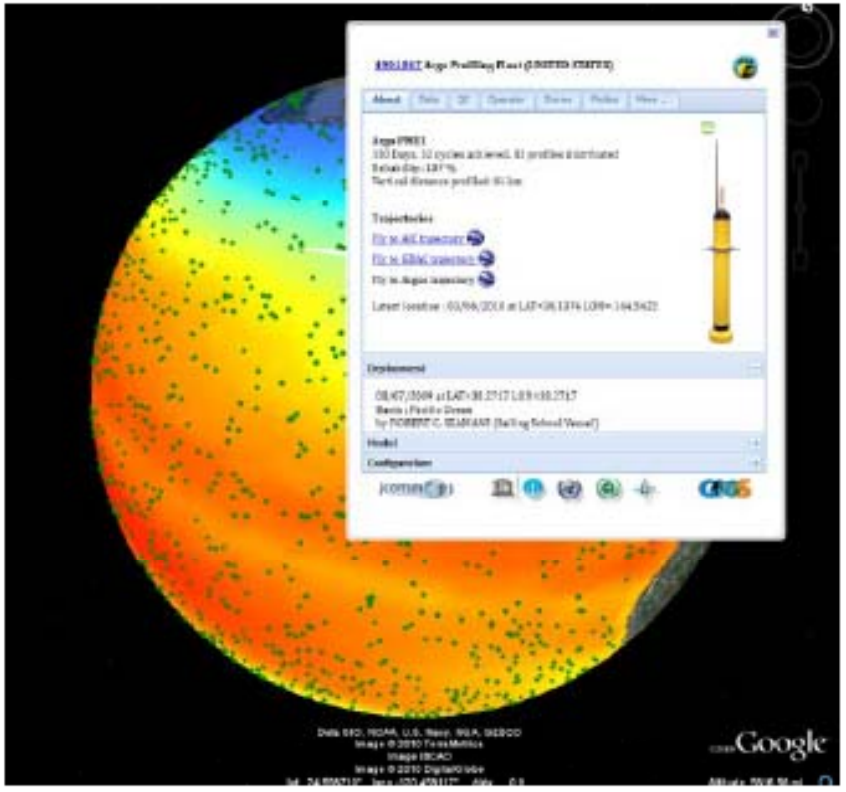
- JCOMMOPS, hosted by France (CLS/IFREMER), has recently been renewed (JCOMM III), with extended mandate to integrate more components of Observing System.
- JCOMMOPS is likely to develop further: GOSHIP, gliders, Ship Coordinator, marine mammals …
- Provided the different panels identify funding for int. coo.

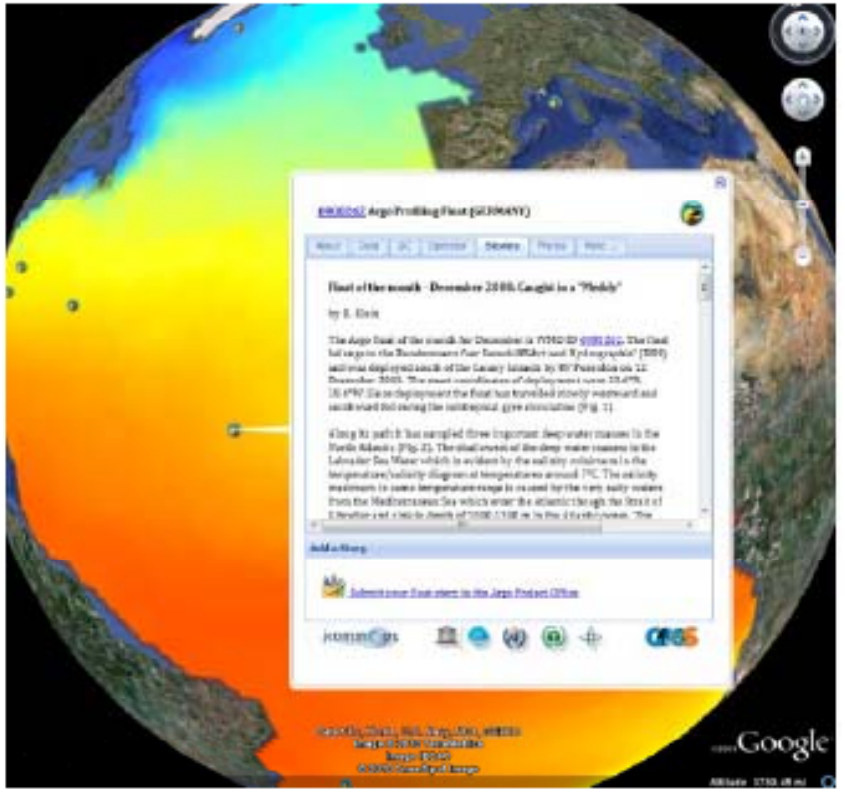
- What cooperation with EuroArgo is anticipated ?
  - Resources are modest
  - Reinventing the wheel with a “EuroArgo tag” is not a good solution
  - We need to share work, resources, develop interoperable services, …

=> To be discussed in details …

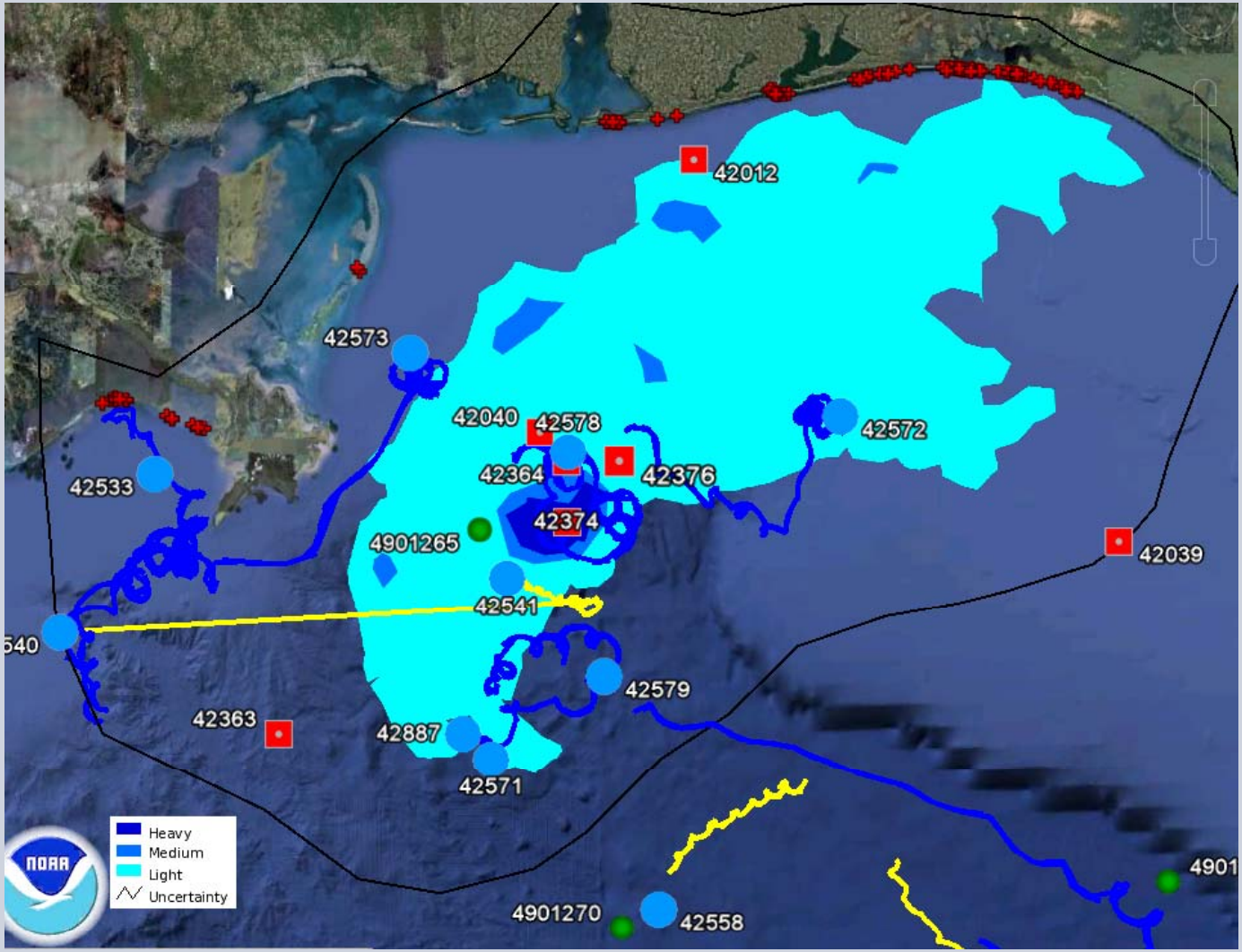
Outreach … A huge potential

- Argo & Google Earth
- … all other elements (JCOMM Obs. Syst.) will follow





http://argo.jcommops.org/argo.kml


42012
42573
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42572
42533
42364
42376
42374
4901265
42039
42541
42579
42363
42887
42571
Heavy
Medium
Light
Uncertainty
4901270
42558

Argo & GE

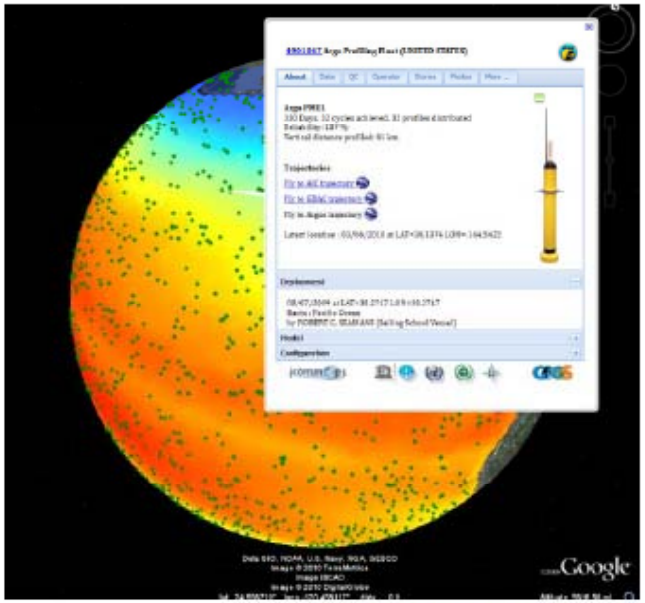
Aim: Design a product useful for Argonauts and for a larger public

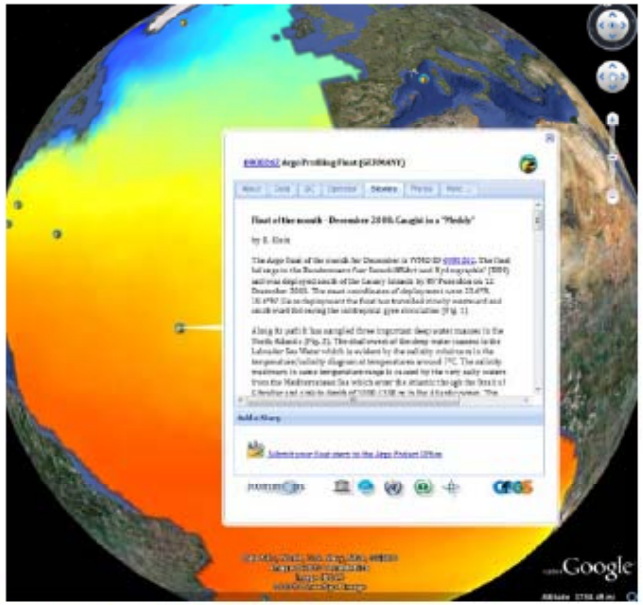
- To be presented to Google when ready, for a potential addition in the Google Ocean content offer
- 2 main elements:
  - Part I) Argo network status (the floats…)
  - Part II) Ocean state as seen by Argo (the products …)
- All will be regrouped in a package and presented via a « tour »
- Oceanographers will be allowed to tell stories on the floats, ocean, climate, etc, in order to:
  - « humanize » the Argo observing system
  - promote Argo as a pilar of the climate warning system

2

A tool that regroup all info. Available on-line

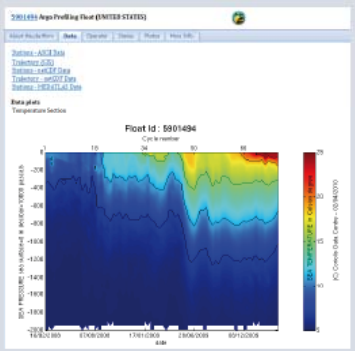
General info, stats, plots, links, data tools, data (in all formats available), QC tools, Float stories (float of the month, EuroArgo), Photos, promotion for all programs …



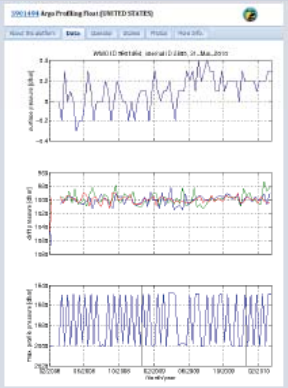


http://argo.jcommops.org/argo.kml

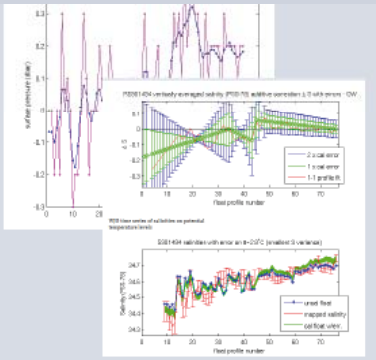
Fleet, Floats, Profiles Overlays



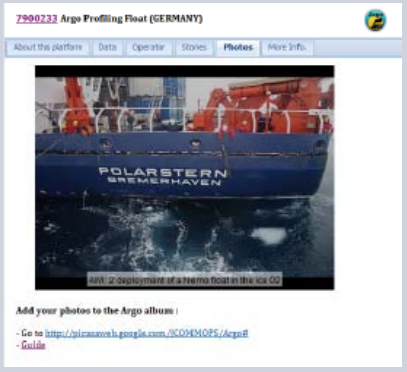
Coriolis GDAC

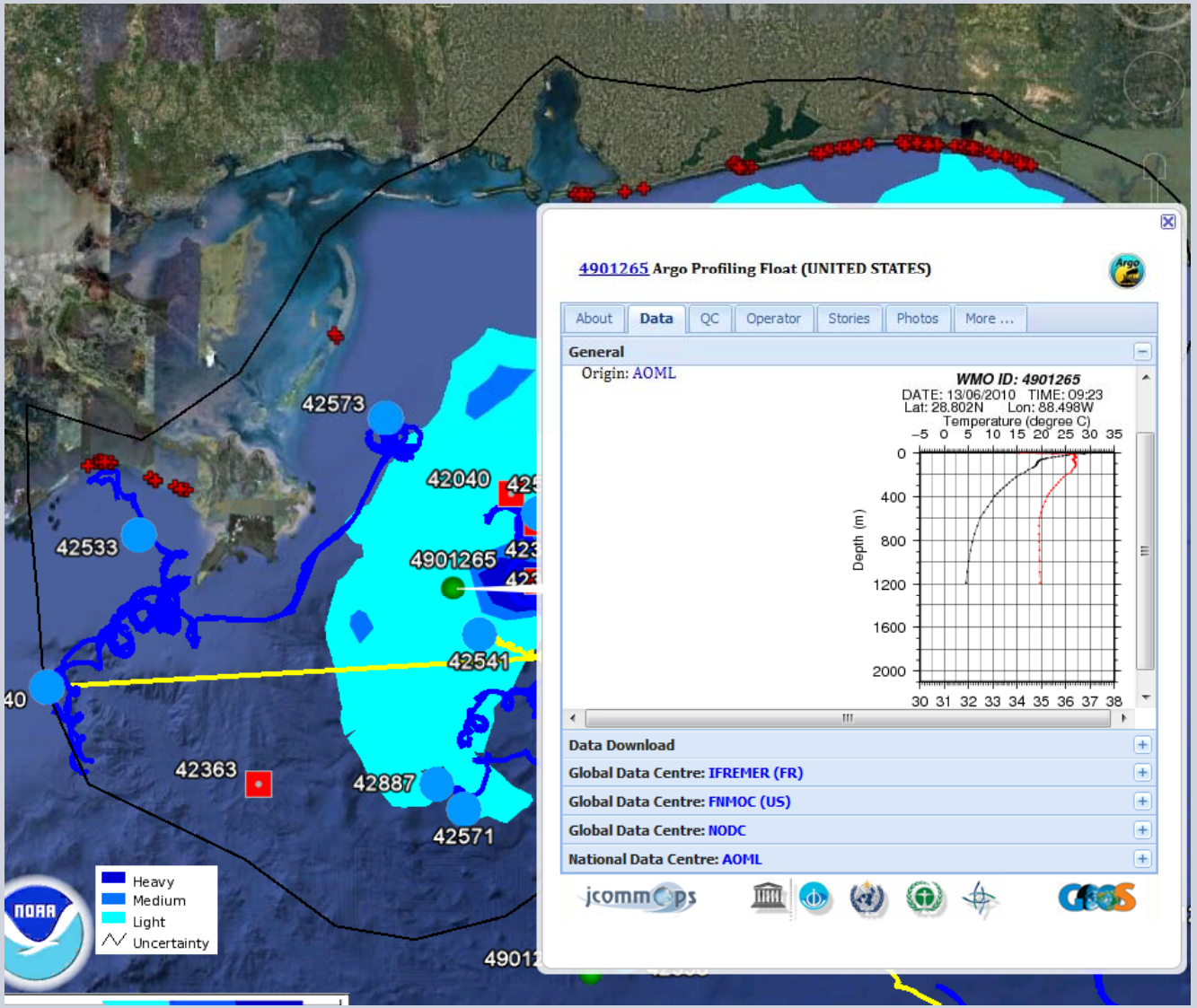


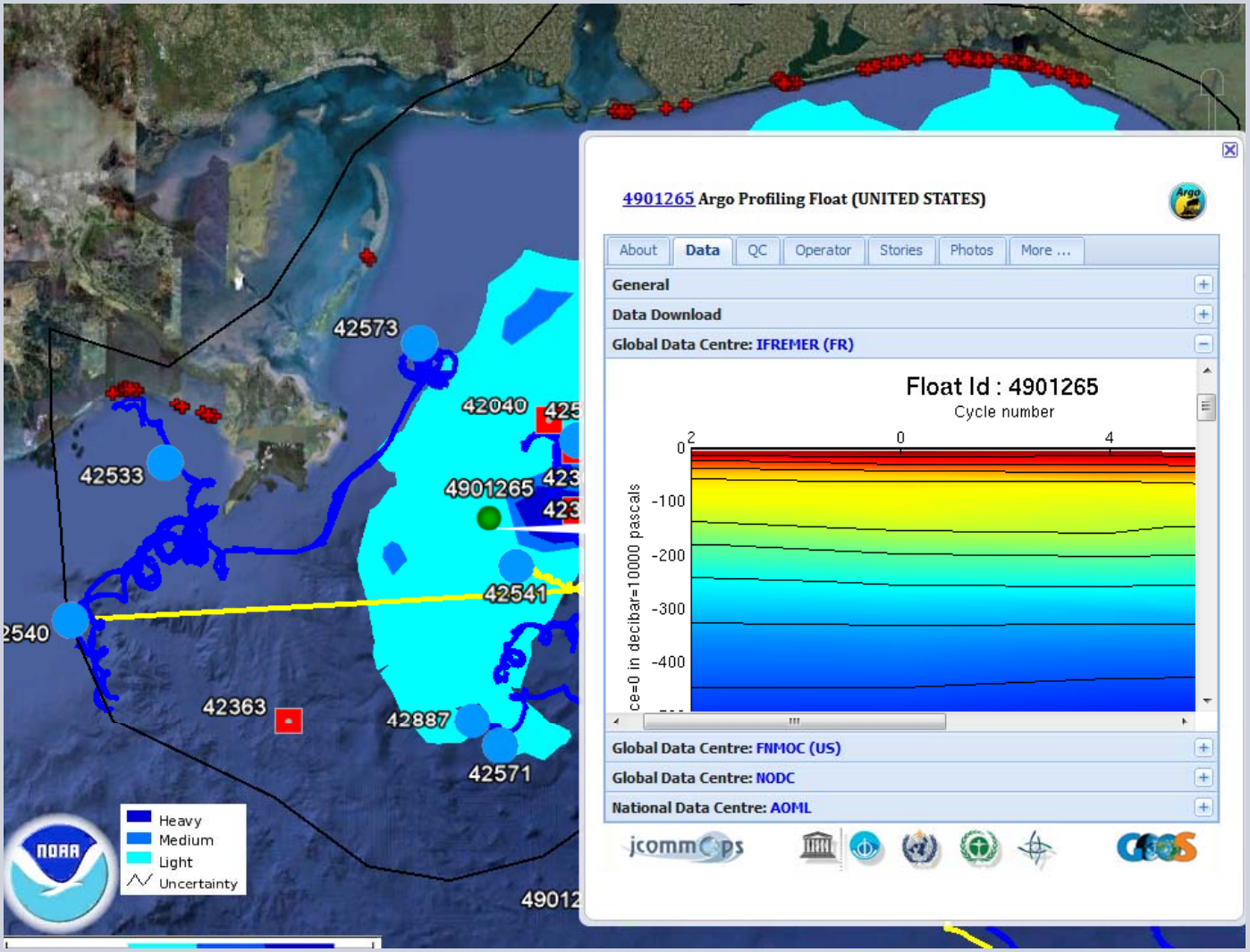
AOML DAC



UW




42573
42040
42533
4901265
42541
42363
42887
42571
Heavy
Medium
Light
Uncertainty
4901265 Argo Profiling Float (UNITED STATES)
About
Data
QC
Operator
Stories
Photos
More ...
General
Origin: AOML
WMO ID: 4901265
DATE: 13/06/2010 TIME: 09:23
Lat: 28.802N Lon: 88.498W
Temperature (degree C)
Depth (m)
Data Download
Global Data Centre: IFREMER (FR)
Global Data Centre: FNMOC (US)
Global Data Centre: NODC
National Data Centre: AOML


42573
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4901265
42541
42363
42887
42571
Heavy
Medium
Light
Uncertainty
4901265 Argo Profiling Float (UNITED STATES)
About
Data
QC
Operator
Stories
Photos
More ...
General
Data Download
Global Data Centre: IFREMER (FR)
Float Id : 4901265
Cycle number
ce=0 in decibar=10000 pascals
Global Data Centre: FNMOC (US)
Global Data Centre: NODC
National Data Centre: AOML

Conclusion

- We need to discuss International-European cooperation
- Register your planning in advance
- Do not hesitate to ask AIC's help on any issue around Argo
- Send feedback on data quality to AIC for a relay to the community
- Send your webpages, products, stories, etc, so we can share them with the international community.
- support@argo.net