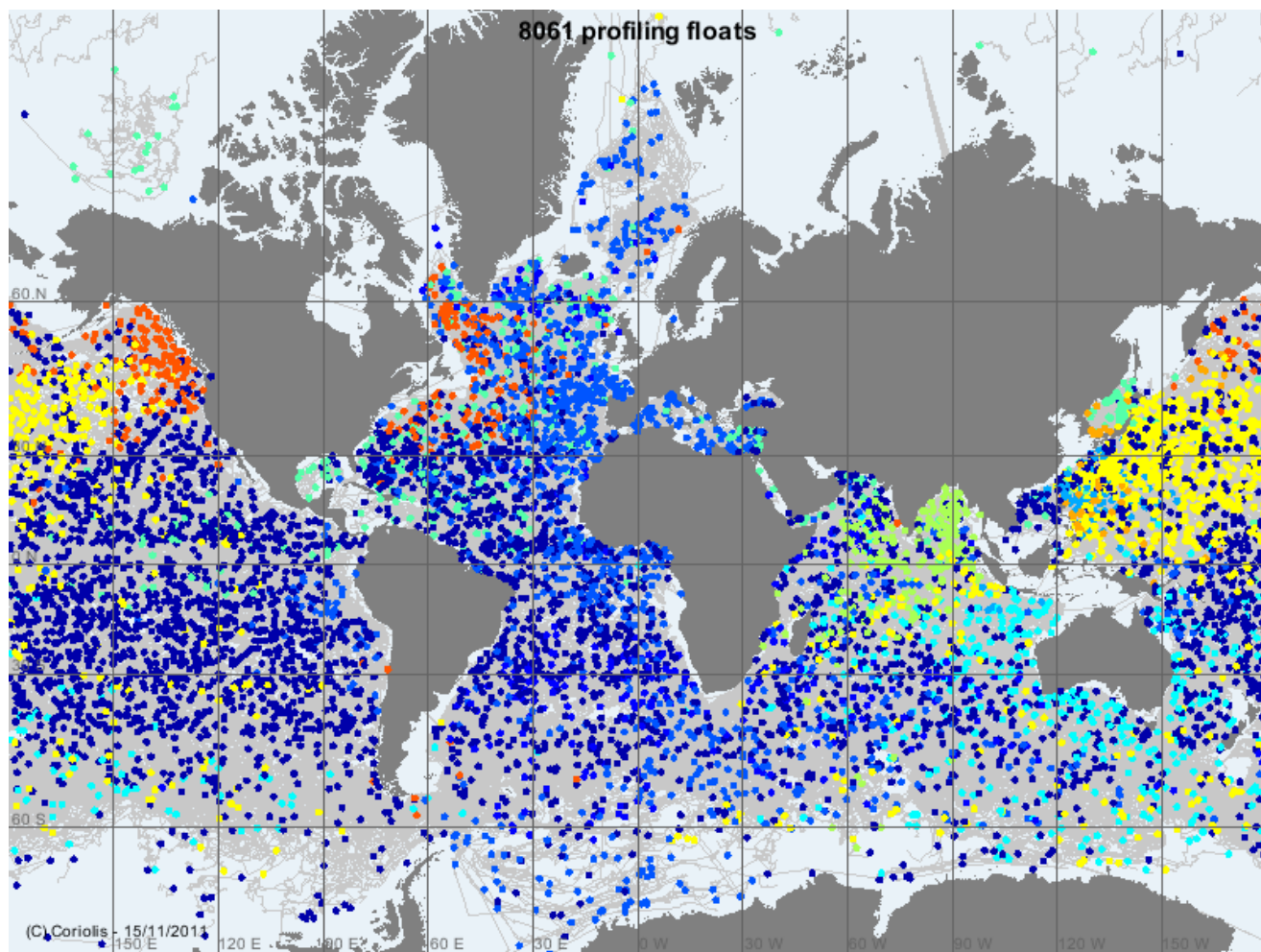




Feedback from ADMT12

S Pouliquen / Ann Gronel-Thresher
AST13



Some Changes in ADMT

- Change in ADMT Chairs : Mark Ignaszewski stepped down and Ann Gronell Thresher/CSIRO is now chairing ADMT together with S Pouliquen
- Change in ADMT work in between plenary meetings
 - A lot of the actions were finalized just before AST or ADMT often in a rush
 - Working through emails isn't always efficient
 - ADMT-Chairs will organize 2 phone meetings to review the action status January and June
 - January meeting focused on the actions due to AST13
 - Most of the Actions due for AST are on good track except the File Checker ones
- Put a DOI on all approved Argo User Manual and Argo QC Manual to facilitate citation on Argo (action Lesley Rickards BODC)



Status of the Argo Data System

- Current ADMT efforts focus on
 - Reducing the delays
 - Delayed-mode QC
 - Improving data consistency and completeness
 - Detection and correction of systematic errors
 - Improving trajectory data provision



Real Time Data Stream

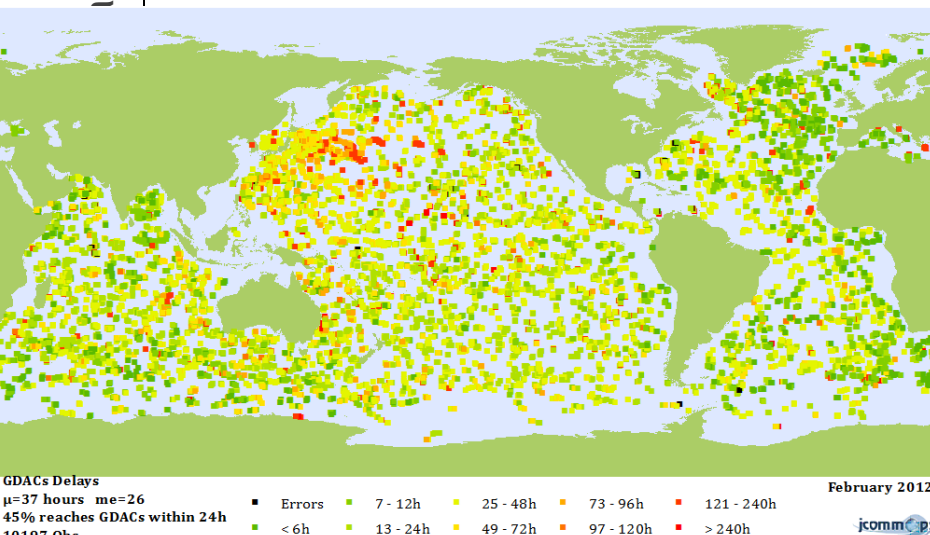
- 88% of data on GTS within 24 hours
- No major distribution problems
- Continuing transition to BUFR data transmission
 - Most of DACs transmit data in BUFR and files have been check by ISDN and US-GDAC
 - Coriolis and CSIRO solved the remaining issue just after the meeting.
- Additional manual QC checks
 - Daily: Coriolis performing an OA to detect anomalies and send “standardized” feedback to DACs that can automatically integrate the corrections. Dac provides feedback of the alert to Coriolis to improve the system and decrease false alerts
 - Quarterly: Comparison to altimetry : Individual messages are sent by AIC when the same anomaly is present in two consecutive runs without any action from DACs/Pis. Most of the DM operator are now aware of the procedure



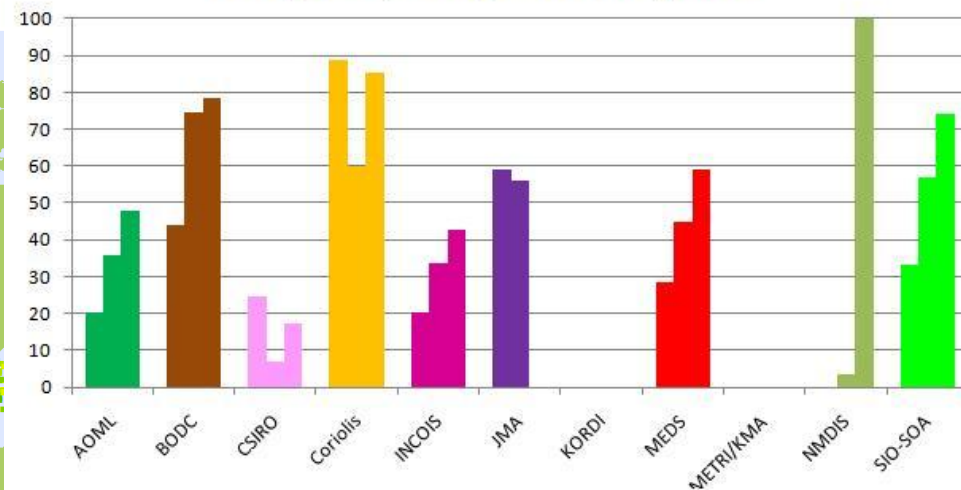
Real Time Data Stream

management 2011 SEOUL

- Data management infrastructure is stable
 - Monitoring tools are important for both check the consistency of the data and monitor the system
 - Delay monitoring has been implemented by AIC from French GDAC (planned on US GDAC when enough information is available)
 - In October 2011 : 39h in average, 39% reaching GDAC in 24h
 - French GDAC worked on reducing its update delay: 29h in average 46 % reaching GDAC in 24h in November 2011
 - Each DAC to document their update procedure to track useless delays



% profiles distributed within 24h at GDACs, by DAC as of September, October, and latest 10 days 2011



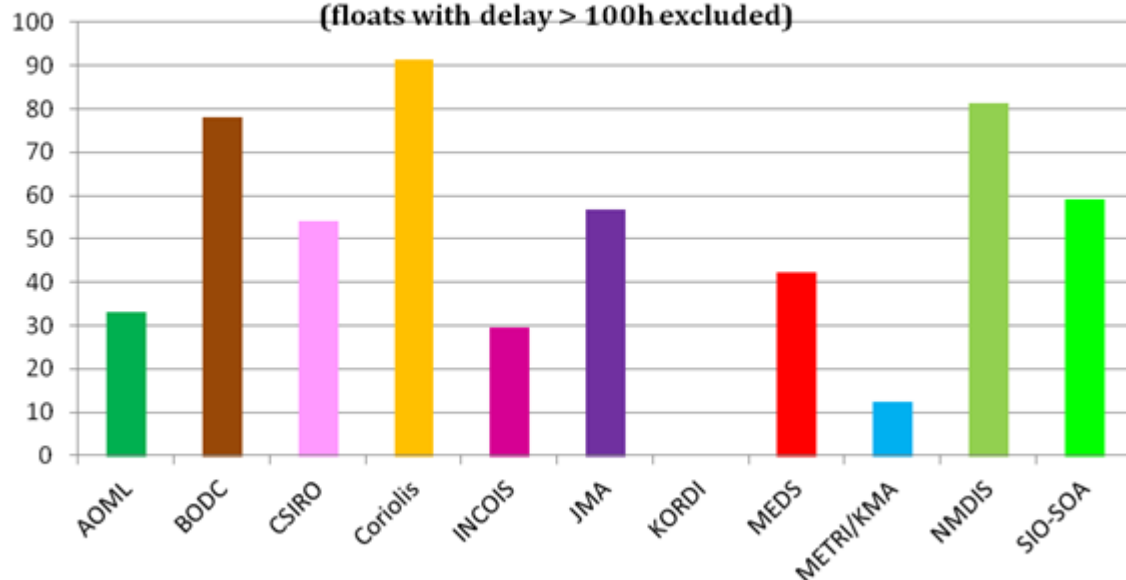
Improving delays

- Mean : 33h h delay , 53% of the data reach GDAC within 24h if we don't take into account the extreme case (Kordi) and floats with a delay > 100h
- 4 DACs are below 24h

11 SEOUL

% profiles distributed within 24h at GDACs, by DAC
for 2011

(floats with delay > 100h excluded)



DAC	DELAY (h)	% < 24h
AOML	44.0	39
BODC	18.4	85
CSIRO	39.2	42.6
Coriolis	19.6	91.1
INCOIS	20.0	79.0
JMA	65.7	10.11
KORDI	177.6	0
MEDS	42.3	41
NMRI/KMA	28.6	0
NMDIS	19.0	93
AOML	44.0	39

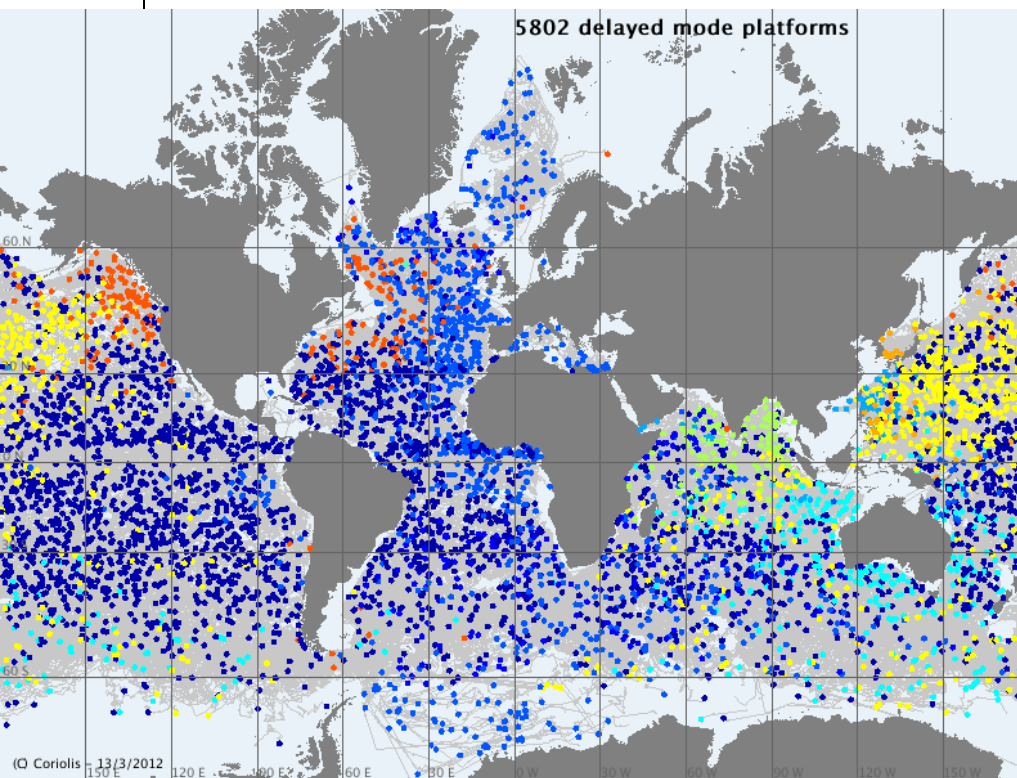


Real Time Data Stream

- Improvement in RTQC procedures
 - Test on density inversion that takes into account a threshold
 - Prefer to let some bad data go through that flag to much good data : Threshold of 0,03 with No regional differences
 - Implement it on potential density to the observation level
 - Keep 2 way processing
 - Need to be implemented again after DMQC
- Non Argo-Core issues
 - Reprocessing of Oxygen is done in Realtime, some reprocessing at AOML still need to be finished
 - RTQC procedure for Ch-I have been proposed by LOV/France and was accepted by ADMT. This procedure is implemented at Coriolis DAC

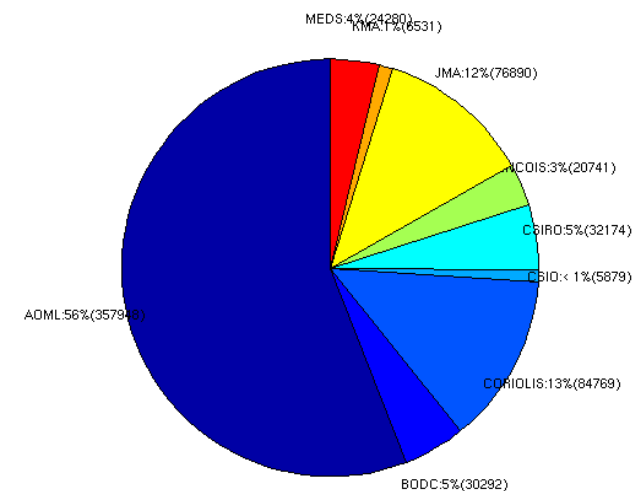
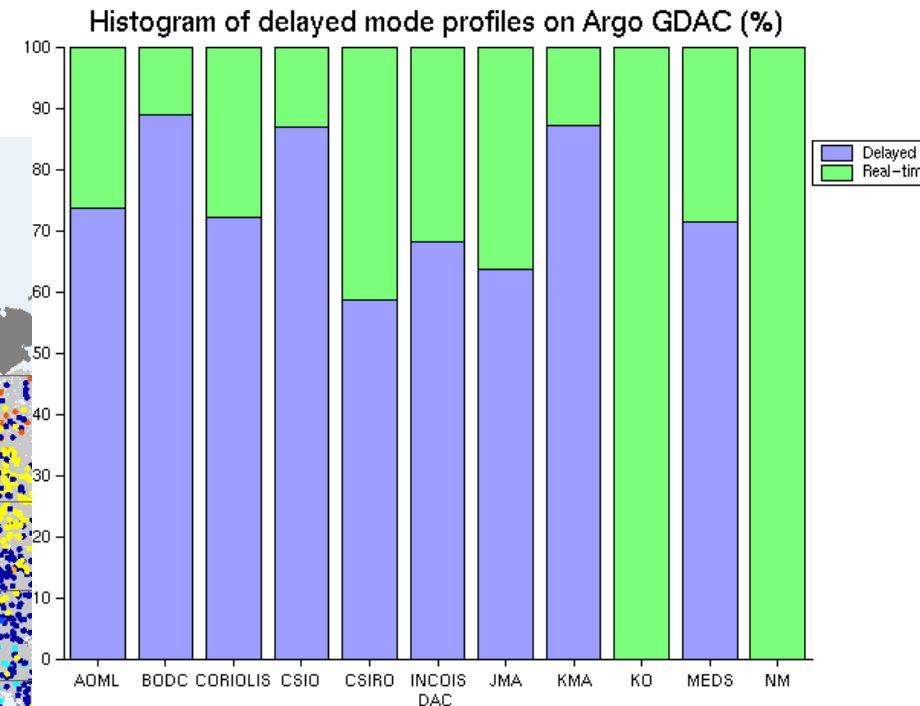


Delayed mode QC



12th Argo

- DMQC progress in most countries
- DM operator assigned to all floats
- Report on Pressure correction by Susan



GDACS improvement

12th Argo data management 2011 SEOUL

- File removal has been simplified at GDACS
- GDACS updates have been increased
 - Coriolis Hourly updates
 - US-GADC 2 hours updates
 - Detailed index file recording the first submission data for a profile has been implemented at Coriolis to allow delay monitoring.
 - Should be implemented with the File checker at US GDAC
- Monitor GDAC availability
 - In 2011 99,6% availability (23hours failure due to a electrical supply failure)
- Weekly compressed files of the DAC and Geo directory are available at GDAC
- DM File checker : Checking Check results with two DACs (AOML and CSIRO) since last week
- Activity underway with IODE to connect Coriois GDAC to ODP



Format Improvement

- Status on tech file updates :
 - A monitoring is in place done by Ann at CSIRO
 - Most of the anomaly detected were minor and most of them have been cleaned up
- Standardization of MetaData files
 - Define a common reference tables to record float metadata such as platform, sensor,..
 - A new list of mandatory metadata will replace the highly desirable ones
 - Agreement of how to store configuration variable was reached to have to capability to record the change done by two way transmission means
- Multi sensor Multi axes file : format agreed, Some DAC started to generate them. Waiting for file checker update to deliver them to GDAC



ARC activities

- **South Atlantic ARC:** Most of the activity on consistency check using the buddy-check and results are available to users through WWW.
- **North Atlantic ARC:** progress carried out for the North Atlantic mainly within Euro-Argo .. A prototype of data mining tool is under development for NA-ARC at <http://www.ifremer.fr/lpo/naarc>. Recommendation to involve USA and Canada in NA-ARC activities
- **Pacific ARC:** mainly focused on maintaining and upgrading the products developed at JAMSTEC and IPRC. Leveraging Aquarius and PAC-OOS funding may provide an opportunity to develop products that are of interest to all communities.
- **Southern Ocean ARC:** Activity on sharing DMQC regional expertise in Southern Ocean. A new WWW site will be soon. There is also an ongoing effort to improve the POGO cruise planning database so it can be integrated with JCOMMOPS and CCHDO tools.
- **Indian ARC:** most of the activity on DMQC



Miscellaneous topics

- ADMT12 action to AST: how to document the different issues that happened to the Argo data into a document for user information, e.g., pressure correction, micro-leak...
- Set up “DAC Instruction/cookbook” to gather procedures to be applied by DACS that don't fit into the User manual or the QC manual (Megan Coordinates)

