

ADMT-13 Agenda Item

USGODAE and French GDACs are no longer distributing the same Argo dataset

AST-14

“GODAE was understaffed”
(IT; Oceanographic)

Status as of 11 March

The US GDAC synchronization process had not functioned correctly since 8 Jan 2013 due to an undetected ftp issue following the transition to the new hardware on that date. On 11 Mar, the issue was resolved and a “large synchronization” of the US GDAC with the French GDAC was successfully performed.

“I (Mark Ignaszewski) believe the US GDAC is once again synchronized with the French GDAC. There are a few anomalies I will discuss with Thierry separately (cases of both R-files and D-files co-existing, etc) that we will have to work out.”



Immediate Actions

- NRL is committed to continued support of the GODAE Server and the GDAC
 - Just completed a major upgrade of the hardware
 - A specific contact for the Server and GDAC has been identified by NRL – Mr. Michael Frost
 - Mark began transitioning the maintenance duties to Michael last week. Complete transition will be completed by October. Mark will remain involved through the transition.
 - Four-tenths of Michael's time will be assigned to support the Server and GDAC
 - Back-up personnel
 - Implementation of a Help-ticket system at NRL. This is the only way to ensure prompt response from the GDAC to users and to the Brest GDAC.
 - Need to educate users to use this system.
 - Recent experiences suggest that the system is working.



Immediate Actions (Contd.)

- Communications between the GDACs
 - There is a need that communications need to be enhanced not only during the transition but over the long term.
 - Thierry Carval will be coming to Monterey in May to complete the transition and discuss a number of operational issues such as:
 - Code Sharing
 - Coordinated development of a common Argo data processing software suite
 - Michael Frost will visit the Ifremer GDAC (coordinated with the timing of the ADMT meeting this year) to continue discussions of operational issues.
- Establishment of a support structure of oceanographic expertise to:
 - Troubleshoot oceanographic data issues;
 - Address questions on oceanographic data and/or quality control.



Long Term Actions

- Communications between the GDACs:
 - Continue a semi-annual exchange of visits between key personnel at the GDACs and possibly within the support structure of the GDACs.
- Establishment of a support structure of oceanographic expertise to:
 - Identify and support a collaboration between NRL and an institution within the U.S. Argo program to provide the oceanographic expertise required to maintain the quality of the holdings within the database required to address data integrity issues.



USGODAE Hardware Refresh

From:

- 3 independent standalone systems (2 of which were dead..)
 - Quad core
 - 8 Gig RAM
 - ~16 TB space (problematic SNAP drives, 8TB had died..)

To:

- 2 Poweredge R715 servers
 - 24 core
 - 64 Gig RAM
 - 91 TB NFS mounted RAID drive
 - 2 servers placed into pool for virtual systems
 - We have carved out a 8 core 32 Gig RAM image
 - Deployed as a virtual machine within a VMWare High Availability and Load Balanced cluster
 - Architecture provides USGODAE Web and FTP services fault tolerance and a framework for rapid disaster recovery
 - Environmental data is sync'd to another RAID on backblaze system

