

Agenda of Argo Data Management Meeting

15th September 2004

Objectives of the meeting

- Identify, and take steps to implement, actions needed to improve Real-Time data flow (considering all aspects of the system from transmission from the float to arrival at GDAC)
- Review status of Delayed-Mode quality control
- Identify, and take steps to implement, actions needed to increase the volume of Delayed Mode Q-C'd data and to get these data to the GDACs.
- Identify a set of robust metrics for documenting future (and if possible past) growth and performance of:-
 - the Argo array
 - the Argo data system
 - the uses being made of Argo RT and DM data
- Review and take steps to put in place appropriate Argo data archive functions including the detailed specification of possible distribution of Argo data and analysis tools via CD-ROM.
- Assess the ability of present Argo data formats and processing mechanisms to handle data from profiling floats with new sampling schemes (e.g sampling during drift phase), with novel sensors or using new data communication and position-fixing systems.
- Give clear guidance to the planned Regional Data Centres on their responsibilities, their relationships with GDACs and their role in regional Delayed Mode QC.

Schedule: Meeting will start at 9am and finish around 1730 on Wednesday and Thursday. We plan to finish around 1400 on Friday to allow people to catch plane more easily.

1. Status of Argo program

What's new at AIC, status on the Actions. Improvement needed?

4th meeting actions: 2-3-4-12-23-24

- Status of Argo program (M Belbéoch)
- Monitoring the performance of the Float array (M Belbéoch)
- What's new at AIC? (M Belbéoch)
- How to better know Argo user community? (J Gould)

2. Real Time Data Management

Review the Argo real time data stream, the status of actions from ADMT-4 and identify new actions needed to improve the volume, timeliness of delivery and quality of Argo RT data. .

4th meeting Actions : 5-6-7-8-9-10-11-13-15

Specific issues

- GTS status
 - Assess the progress made in reduce the number of floats coming only through GTS (action 5). Identify new actions needed. (S Pouliquen)
 - Timeliness of data delivery: Review evidence provided by the MEDS statistics on the timeliness of data delivery via GTS. (B Keeley)
- Distribution to GDAC (C Coatanoan)
 - Are there problems in the delivery of data and metadata to GDACs?

- Are Argo RT data meeting user needs? (J Gould)
- RT data quality tests (are they adequate and uniformly applied?) (T Carval)
 - Implementation of Jump and Grey List tests
 - Do we need additional tests
 - Frozen test
 - other deficiencies?
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- Standardized handling procedures for floats that fail RTQC tests (M Ignaszewski)
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- Formats for data delivery (BUFR Format) (M Ignaszewski)

3. **Delayed mode data management**

Review of the implementation of the delayed mode QC as defined at the 6th AST meeting in March. Identify the difficulties encountered. What lessons have been learned about the need for communication between PIs and DM-DACs? What actions are needed either at ADMT or AST levels or by the Argo Project Office?

6th AST actions 18-26

- Feedback from the different DACs on the Delayed Mode implementation and the problems encountered: USA, CSIRO, MEDS, Japan, CORIOLIS, others

Each country having started Delayed mode QC should prepare a 15mn presentation to summarize their experiences. Please send to Co-Chairs the name of the person that will make presentation

*France : C. Coatanoan
CSIRO: R. Smith
Others : ?*

*Canada: R Perkin
Japan : S. Minato*

*USA: C Schmid
UK : R McCready*

- Discussion to define actions needed (A Wong)

4. **Monitoring the Argo Data Management System**

At the 4th ADTM meeting a group was established to define a set of products that will help to monitor both the Argo data management system and the Argo array. Action was also taken for labelling some scientific products as Argo ones

4th meeting actions: 21-22

Speakers: B Keeley , B Molinari

- Agree a set of metrics needed to monitor the performance of the data system and take steps to construct and distribute these metrics in a routine manner
- calculation of trajectories from position fix data (JJ Park or Brian King)
- Other products (including metrics of Argo data use)

5. **Data format Issues**

While format is pretty well standardized for measurements and qc flags, experience at GDACS shows that there are discrepancies both at metadata and technical and history levels that ought to be resolved to the benefit of the community.

Moreover new parameters are coming and we need a strategy to handle them more efficiently than the energy it took for the oxygen data

- Harmonisation of filling metadata fields (T Carval)
- History section usage (C Schmid)
- how to fill the trajectory files (B King)
- Do we need some upgrades? (T Carval)
- How to handle new parameters (M Ignaszewski)
- Format change control process (M Ignaszewski)

6. GDACS

What's new at GDACs, status on the Actions. Improvement needed?

4th meeting actions: 1-14-16-17-18-19-20

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- CORIOLIS(T Carval)
- US GODAE (M Ignaszewski)

Identification of any significant inconsistencies between holdings, procedures and access to data by the two GDACs (M Ignaszewski)

7. RDACs: provide an information on what done and what is planned

Each RDAC is invited to provide information on the progress made during the past year especially to start implementing the mandatory activities

- Atlantic (S Pouliquen & C Schmid)
- Indian (M Ravichandran)
- Pacific (P Hacker ?)
- Southern Ocean (R McCready)

8. GADR

Status on the Argo CD, plans for regional versions. GADR progress to comply with Argo requirements.

4th meeting actions: 26-28

- The Argo CD, issue of regional versions (C Sun)
- Status of the Archiving centre (C Sun)

9. Other topics

4th meeting actions: 25-27