

Argo National Data Management Report

- BSH (Federal Maritime and Hydrographic Agency), Germany

1. Status

(Please report the progress made towards completing the following tasks and if not yet complete, estimate when you expect them to be complete)

- Data acquired from floats
Presently there are 150 active/operational German floats which mostly belong to BSH with the exception of 2 floats belonging to AWI and 1 float belonging to GEOMAR. 31 floats have been deployed in 2017.
- Data issued to GTS
All German floats are processed in real-time by Coriolis and immediately inserted into the GTS.
- Data issued to GDACs after real-time QC
All profiles from German floats are processed by Coriolis following the regular quality checks and are routinely exchanged with the GDACs.
- Data issued for delayed QC
At present (13.11.2017) the German Argo fleet comprises 838 floats which have sampled 65112 profiles. 51661 profiles of all eligible files are already available as D-files and 8221 are still pending. The total rate of eligible D-files provided to the GDACs is 86% and has increased from last year's value of 81%.
- Delayed data sent to GDACs
The D-files are submitted by email to Coriolis together with the diagnostic figures and a short summary of the DMQC decision taken and are inserted into the GDAC after format testing.
- Web pages
BSH is maintaining the Argo Germany Web site. The URL for the Argo Germany is: <http://www.german-argo.de/>. It provides information about the international Argo Program, the German contribution to Argo, Argo array status, data access and deployment plans. It also provides links to the original sources of information.
- Statistics of Argo data usage
Currently no statistics of Argo data usage are available. The German Navy uses Argo data on a regular basis for the operational support of the fleet and uses their liaison officer at BSH to communicate their needs. The SeaDataNet portal uses German Argo data operationally for the Northwest European Shelf. Argo data are routinely assimilated in the GECCO reanalysis, which is used for the initialisation the decadal prediction system MiKlip. At BSH the data are used within several projects such as KLIWAS, RACE, MiKlip, ICDC and Expertennetzwerk BMVI. Data are also used in various research groups at universities.
- Products generated from Argo data

2. Delayed Mode QC

(Please report on the progress made towards providing delayed mode Argo data, how it's organized and the difficulties encountered and estimate when you expect to be pre-operational).

The overall percentage of D-files from all German programs is increasing again and has reached a quota of 86%. BSH has adopted all floats from German universities (except for the AWI floats) and performs the DMQC for floats still alive and is reformatting older (dead) floats. There are 48927 profiles within this group and 43795 eligible D-files. With 3046 pending D-files the quota has reached 93%. We expect to have the few remaining profiles eligible for DMQC finished soon. The AWI had issues with their decoders and has spent the first half of 2017 re-decoding all their files in close communication with Coriolis to improve the technical information, meta data and solve some problems with the timing information of under-ice profiles. This process has been completed, files have been exchanged with Coriolis and new R-files have to be created. There is a larger backlog of files eligible for DMQC for AWI floats, only about half of these profiles have been finished. BSH will be offering support to AWI to help make progress within the next 6 month.

BSH has also adopted floats from Finland, the Netherlands, Norway and Poland for DMQC. The progress in these programs providing D-files is good for the Netherlands and Poland with nearly no pending D-files. Floats from Norway have recently been reformatted by Coriolis in the process of moving to file-format 3.1. Because of format issues the reformatted D-profiles from BGC floats had to be replaced by R-files and will need to have their DMQC decision repeated. This will be done soon and the program will be back on track. There is a remaining issue with floats from Finland, some of which are operating in the Baltic and will receive their dmqc decisions from regular laboratory calibrations performed when floats are recovered.

3. GDAC Functions

(If your centre operates a GDAC, report the progress made on the following tasks and if not yet complete, estimate when you expect them to be complete)

- National centres reporting to you
- Operations of the ftp server
- Operations of the www server
- Data synchronization
- Statistics of Argo data usage : Ftp and WWW access, characterization of users (countries, field of interest : operational models, scientific applications) ...

4. Regional Centre Functions

(If your centre operates a regional centre, report the functions performed, and in planning)

5. References