Argo National Data Management Report for ADMT-25 – NORWAY

1. Real Time Status

Please report the status of your real time data processing for all Argo Missions, including pilots. If you have not yet implemented the tasks, please give us an estimate of when you expect the task to be completed. Here are some questions to answer:

- How many floats are you currently processing & what type are they?

Float family	**Number of versions**	**Number of floats*** (*approximate)
APEX		
ARVOR	1	25
PROVOR	2	12
Navis		
BGC Navis		
SOLO/S2A		
Deep SOLO		
Deep Arvor	1	3
Other (customize additional rows as needed)		

- How many different sensors are you currently processing?

Parameters	**Type(s) of sensor for that parameter**
Temperature/Salinity	SBE41
oxygen	Aanderaa 4330
NO3	SUNA

pH	SBE-SEAFET
Chla	SBE-FLBBCD
bbp	SBE-FLBBCD
irradiance	SBE-OCR504

New Sensors you have begun processing (either deployed in past 12 months or expected in the next few months)	**Have all the Argo vocabularies been implemented to accommodate the sensor? (Yes, No, In progress)**
CROVER	Yes?
UVP6	Yes?

- What is the status of BGC processing and RTQC test implementation? See here to get the version of manuals you are using to process and qc the BGC variables or : Documentation - Argo Data Management (argodatamgt.org) If your floats **do not** include a listed parameter, please enter 'N/A' (Not Applicable); if your floats **do** include the listed parameter, but you have not yet implemented processing for this parameter, please enter 'N/I' (Not Implemented).

parameter	**Processing cookbook version you are using (ie, current or version 2.0 Oct 2018)**	**QC manual version you are using (ie, current or version 2.0 Oct 2018)**	**Notes on when changes will be made to update to latest version**
oxygen	current	current	
NO3	current	current	
pH	current	current	
Chla	current	current	
bbp	N/I		
irradiance	N/I		

- What is the status of RBR data processing (if applicable)? Are you adjusting salinity in real time? See DACs with floats with RBR CTDs to implement real-time salinity adjustment as per QC Manual, and flag PSAL_ADJUSTED_QC = '1' in 'A' mode. Real time adjusted data can be distributed onto GTS · Issue #55 · OneArgo/ADMT (github.com)

RBRargo3 2K model	**Are you filling Adjusted data (A mode) following User Manual 3.8 instructions?**	**Notes or additional information**
pre-April 2021		
post-April 2021		

- Are you regularly applying real time adjustments for the following items:
  - Salinity adjustments
  - Cpcor for deep floats
  - BGC parameters (if so, which ones)

	Yes/No for current R files	**Are you going back to make adjustments on all available R files when new adjustment comes in?**	**Notes or additional information**
Salinity adjustment	No	No	
Cpcor adjustment for Deep floats	No	No	
oxygen	No	No	
NO3	No	No	

pH	No	No	
Chla	No	No	
bbp	No	No	
irradiance	No	No	

- What data are you sending onto the GTS?
- What data is going to the aux directory? UVP
- Are you automatically greylisting questionable floats detected by min/max test?
- What is the status of the transition to v3.2 trajectory files? When do you think you will be ready to stop acceptance of v3.1 Btraj files?
- Do you have any code to share with other DACs? If so, where is that available?

2. Delayed Mode QC status

This section of the report is for reporting on the status of DMQC in your country and is the place to share your progress, your challenges, your concerns and any links to shareable tools or code. The following questions to help guide you:

- What is the status of delayed mode trajectory files? Have you created any dmode trajectory files? If not, what are the reasons? If you have, would you be interested in sharing your experiences with others?

  No trajectory files in dmode are created because lack of personnel/time.

- How are you implementing BGC dmode - by parameter or one expert does all parameters?
  Two persons by parameter: one person does oxygen and pH and another person does NO3, CHLA.

- What challenges have you encountered and how have you dealt with them?
  We lack personnel with competence and funding to do BGC DMQC of all parameters. We have submitted a proposal to the Research Council and if it is successful we will hire a new person to do DMQC.

- Do you have any code or tools you'd like to share with other DM operators? If so, where is that available?

A MATLAB toolbox (DMQC-fun) is made for DMQC of core floats. DMQC-fun is a comprehensive toolbox for performing DMQC on and salinity calibration of core data from Argo floats. Link: https://github.com/euroargodev/DMQC-fun

- Do you have any concerns you'd like to bring to the ADMT?

  I think that several of the DMQC user manuals are difficult to read/understand for a person that wish to start DMQC.

3. Value Added items

- List of current national Argo web pages, especially data specific ones

  https://norargo.no/ (Argo Norway web page)

  https://norargo-map.hi.no/ (Location of Argo floats in the Nordic Seas, with options to plot and download data)

- Known National Argo data usage
  - Please list known operational centers using Argo data in your country in this table:

Operational center	**Contact (name, email), if known**	**What data do they use?** (for example, core, BGC, all profile data, trajectory data)
Met.no	Ann Kristin Sperrevik (annks@met.no)	All T/S-profiles
NERSC	Johnny A. Johannessen (jaj@nersc.no)	All T/S-profiles

- Products generated from Argo data that can be shared
- Publicly available software tools to access

4. GDAC Functions

If your centre operates a GDAC, report the progress made on the following tasks:

- Operations of the ftp server
- Operations of the https server
- Operations of a user friendly interface to access data
- Data synchronization
- Statistics of Argo data usage : Ftp and https access, characterization of users (countries, field of interest : operational models, scientific applications) …

5. Regional Centre Functions

If your Nation operates a regional centre, report the functions performed and any future plans.

6. Other Issues

Please include any specific comments on issues you wish to be considered by the Argo Data Management Team. These might include tasks performed by OceanOPS, the coordination of activities at an international level and the performance of the Argo data system.