**Miscellaneous Items**

- The PARAMETER\_DATA\_MODE is added to the merge profile index to improve accessibility to QCed float data.

- Deepest pressure test (Test 19) will only be applied to PRES and no longer to i- and b-parameters. If there were no other QC tests specified, test 19 is the only test on i- and b-parameters. If passed (i.e., if there is no configuration inconsistency), it gives a QC>0 to the parameter, implying there was a parameter QC, which in fact did not exist. Removing this test application to i- and b-parameters keeps their QC=0.

- For a parameter to pass to mode 'A' (i.e., adjusted in real-time), the calculation for the adjustment must involve the parameter itself (e.g., with an offset or slope). If a different parameter used for the calculations is in mode 'A' (e.g., PSAL\_ADJUSTED), this does not transitions onto the parameter itself and does not put it into mode 'A'. The <PARAM> field is always calculated with other parameters in 'R' mode (e.g., PSAL). <PARAM>\_ADJUSTED is only populated with a "real" parameter adjustment as defined above. A calculation without a "real" parameter adjustment but involving other adjusted parameters (e.g., PSAL\_ADJUSTED) is not performed/not recorded in the BGC-Argo files.

**Discussion 1**

- Test 8 : Pressure increasing test: High resolution, unbinned (BGC-) data can have a non-significant fraction of data with the same PRES or with pressure inversions. For optical and BGC data (that are outside the CTD's pumped path), any data are considered good data. If their PRES\_QC is set to 4, they will be excluded from analysis.

Proposition: This test is not applied to N\_PROFs that are accompagnied by BGC-Argo measurements (i.e., N\_PROF>1 without T/S near surface sampling, N\_PROF>2 with T/S near surface sampling).

- How to organize a reprocessing (Chla / bbp) ?

- When reprocessed, do we need to store the information that it has been reprocessed ?

- Issues: We need the serial number of the sensor and to know whether the sensors are of one type or another . This is a general issue in the meta files that needs to be addressed. Is there a way that can be facilitated or better organized? Same for newly deployed floats?

- How to improve end-user usability? How far to go down the processing chain (L0 -> L1 -> L2? -> L3?)?

-ERROR and ADJUSTED\_QC mandatory filled in ‘A ‘ MODE ?

**Discussion 2**

- Trajectories/ profile structure: How to store in-air and near-surface oxygen data in the Btraj file, and other Btraj inconsistencies (Tanya Maurer)

- How to align vertical biogeochemical measurements in the b-files (Josh Plant)

- Is there a way to simplify the BGC documentation structure to avoid PI's to look in >=3 documents to understand the processing / QC of a single parameter.

Suggestion 1 : a merge documentation between processing and QC

Suggestion 2 : a processing documentation, a QC tests / adjustments