

## **Agenda of the 5th Argo Delayed Mode Quality Control (DMQC5) workshop**

The Chapel, Foresight Centre, Liverpool

Agenda timings are indicative and will be adapted based on discussion. Presentation slots are 30 minutes including time for questions.

### **Monday 14th October afternoon; setting the scene for discussion.**

13:30-13:40 - Introduction and workshop goals (Brian King, NOC).

13:40-14:00 - Analysis of salinity adjustments and errors applied globally by DMQC operators (Brian King, NOC).

14:00-14:30 - Comparison of delayed mode decisions by US delayed mode operators (David Murphy, SeaBird).

14:30-15:00 - Analysis of delayed mode quality control decisions in the North Atlantic Subpolar Gyre (Cecile Cabanes, Ifremer).

15:00-15:30 - Tea break

15:30-16:00 - North Atlantic DQMC complications (Justin Buck, BODC).

16:00-16:30 - OW difficulties in the Med Sea and additional qualitative checks adopted (Giulio Notarstefano, OGS).

16:30-17:30 - Discussion of points arising from presentations and goals for Tuesday.

### **Tuesday 15th October afternoon; structured discussion from 1330-1630 including tea break to address questions below, with an hour at the end for making recommendations, aiming for 1730 finish)**

**Please come ready to consider the following questions and issues, which address the objectives of the workshop. We do not have lead presentations for these topics, so come ready with your ideas and any illustrative material you think will be useful.**

- 1) What is the best way to use CTD reference data and Argo reference data in choosing the PSAL offset and PSAL\_ADJUSTED\_ERROR? To start the discussion on this topic we will ask one or two DMQC operators to describe their practice, and this will lead naturally into discussion.
- 2) Do we have all the tools we need to undertake DMQC consistently between DACs, when the ocean is changing away from 'historical' data? Are there too many instances of 'Operator Choice'?
- 3) Are there any new quantitative audits required to demonstrate consistency of DMQC? Should there be audits run routinely as part of regional assessments, and who could run them?

### **Required outcomes of the workshop**

- 1) Report to ADMT on consistency of existing D-Mode data
- 2) Recommendations concerning reference data and tools for DMQC
- 3) Recommendations on future audits and evaluations