

Action Items from AST-7

1. Letter of thanks to M. Ravichandran and to K. Radhakrishnan on behalf of AST

**Action AD**

2. M. Scanderbeg to work with S. Riser to document best float deployment practices and to post the information on the web

**Action M. Scanderbeg**

3. Argo will develop a list of climate-relevant ocean indices to which Argo data make a significant contribution. AD to obtain the draft CLIVAR list from D. Roemmich and invite the AST to make additions by e-mail.

**Action: AD and AST members**

4. D-mode operators should apply thermal mass correction to adjusted salinity in order to improve data quality and as a test for RT application. This should be carried out prior to the DMQC workshop. Greg Johnson to supply the subroutines.

**Action D-mode operators**

5. DMQC-2 to provide advice on applying thermal lag correction in RT.

**Action DMQC-2**

6. AST should ask G. Johnson to liaise between SBE and users of 41cp salinity sensors with a view to having the thermal mass correction applied onboard the instrument. (This should be a topic at the DMQC2 workshop).

**Action Brian King**

8. Velocity is a high priority for Argo, of value to many users, and is endorsed as such by the AST. This should be highlighted in Argo documents and on web pages

**Action AST**

10. The AST endorse the offer by B. King to hold a velocity workshop in Venice and suggest additional issues for them to consider.

**Action AST**

11. The AST encouraged studies on the value/quality of velocity data derived from present technologies and using a wide range of mission profiles.

**Action AST**

12. Delivery of data to CCHDO. It is essential that new ship based hydrographic (CTD) data are regularly incorporated in reference data sets. Each nation should determine the quickest and most effective route to pass high quality shipboard CTD data from PIs to CCHDO as soon as practical after cruise completion and to provide ATC with list of PIs and the route adopted.

**Action All Nat Reps.**

13. CCHDO to be informed. AIC to hold list of hydrographic PIs for each country and of the route by which data are to be delivered.

**Action All Nat Reps**

14. ADMT to send CCHDO's format information to national reps.

**Action ADMT co-chairs**

15. An e-mail address *Data-problems@argo.net* will be established and messages to it will be distributed to AIC (to collate stats), ADMT co-chairs (to assign to appropriate person for reply) and AST co-chairs.

**Action ATC**

16. Initially, D-Mode operators should consider nearby Argo data in their subjective decision making. Tools are available for this purpose.

**Action all d-mode operators**

17. When sufficient D-Mode data exist, operators should review effectiveness of "Gilson's rules".

**Action all d-mode operators**

18. The 2nd D-Mode workshop should provide an improved set of rules for use in defining Argo reference data.

**Action DMQC-2 workshop**

19. Confirm with BAK that DMQC-2 can be Sept 2006 in Southampton.

**Action AD**

20. AD to poll national programs on need for a POGO support letter. POGO to provide a sample letter. National programs to provide contact addresses for such letters.

**Action AD**

21. P-Y Le Traon to draft action item on preparing European funding bid

**Action P-Y LeTraon**

22. Improve Argo applications web page. All reps to view existing page and suggest changes and new material. M. Scanderbeg to e-mail. (Replies by end March)

23. M. Belbéoch to reconcile discrepancies between national Argo statements of deployment numbers for 2005 and those in Nat reports and to establish agreed rules.

**Action M. Belbéoch**

24. M. Belbéoch to circulate statistics of float deployment to each country at the end of the year to confirm float number.

**Action M. Belbéoch**

25. P-Y Le Traon will talk to Craig Donelan to revise specs for high resolution in upper ocean temperature (vertical res and horizontal spatial scales).

**Action HF to take message to WRC and SBE.**

26. Make statement about impact in different oceans of high resolution temperature sampling, depending on number of specially-equipped floats. Make statement with costs included without any decisions being done.

**Action P-Y Le Traon**

27. Determine user requirements for near-surface salinity. Will 3m be better than

present? Input needed from appropriate user groups.

**Action AST Co-chairs**

28. The AST would benefit from better linkage to the seasonal-to-interannual prediction community. Presentations on seasonal prediction needed at next AST.

**Action AST Co-chairs**

29. Countries to be asked if they can provide the tech support needed to monitor APEX array.

**Action Nat reps using APEX**

30. Countries not using Li batteries to consider doing so.

**Action Countries not using Li batteries**

33. The AST reiterated US and international Argo policy on new sensor adoption. (On web site) i.e. that no new sensor should be included unless it brought with it resources for the additional floats needed to make up for the decrease in float life through decreases in reliability and increases in energy consumption

**Action All Nat. reps**

34. S. Riser to suggest protocols for thermal mass correction of Optode data using CTD temperature and initiate discussion on Argo-tech

**Action Steve Riser**

35. AST endorses the importance of velocity and states that it is a high priority.

**Action AST**

36. Endorse action from ADMT-7 on velocity metadata. Advertise via Argo-dm mail list.

**Action S Pouliquen**

37. AST endorses trajectory workshop in Venice.

**Action AST**

38. AST encourages studies on the quality/errors of velocity data derived from present technologies and mission profiles. Are present floats capable of producing high quality trajectory data?

**Action Nat reps**

39. AST recognizes that float sampling in interior and glider sampling in boundary currents are highly complementary. AST should investigate possibility of merging deep ocean glider sampling into Argo project when capabilities are better known. The addition of glider sampling should not detract resources from the core Argo (large-scale) program. ADMT should investigate adding glider data to Argo data stream in near future. S. Pouliquen to circulate MERSEA guidelines

**Action AST, ADMT, S. Pouliquen**

40. The AST is concerned that deployment plans are not regularly updated. Plans should be sent to regional co-coordinators whenever a change is made.

Pacific J. Gilson

Atlantic V. Thierry/S. Pouliquen

Indian M. Ravichandran

**Action All Pls**

41. M. Belbéoch to maintain statistics on Argo array parking depths and profile depths.

**Action M. Belbéoch**

42. Graphics of float lifetime need a version that takes into account the total number of km's water profiled.

**Action M. Belbéoch**

43. New Argo float label design to be evaluated and any improvements suggested to D. Roemmich. (Agree to design by end Feb.)

**Action AST**

44. Gould to supply M. Belbéoch with CIESM contact list.

**Action MB & JG**

45. AST reiterates that recovery of beached floats remain the responsibility of the float owner who should take steps to ensure each float's safe recovery.

**Action AST & Pls**

46. AST expressed interest in the use of contactors to assist in float recovery and encouraged further development of this approach.

**Action DR + AST**

47. Test ARGO REGIONAL CENTER name with RDACS

**Action AD**

48. The primary function of regional centers needs to be restated and implemented. Mandatory functions are:

- a) Ensuring consistency of the delayed-mode dataset across d-m operators
- b) Checking consistency of the d-m dataset with new shipboard CTD data collected subsequent to d-m processing.

**Action Regional Centers**

49. Regional centers to meet alongside DMQC2 to agree on best practices for implementing mandatory functions.

**Action Regional Centers**

50. M. Belbéoch to check files for all donated floats to ensure that the countries are appropriately recognized.

**Action MB**

51. Tseviet Tchen and Susan Wijffels from CSIRO will coordinate a peer review of each group's DMQC work. A common list of floats will be compiled based on input from each group, some requiring large adjustment and other marginal adjustments. Each DMQC group will perform DMQC on all of these floats and send the resulting Dmode files to CSIRO

for intercomparison and analysis. The goal is to have the full analysis ready for the 2nd

*DMQC workshop in late 2006. Members of AST will be asked to encourage participation of their national DAC.*

**Action S. Wijffels, T. Chen, B. King**

*52. ATC to ensure that monthly maps appear within first week of new month.*

**Action M. Belbéoch**

*53. Complete brochure in time for review and printing to circulate at ASW-2. Offers of assistance welcome. CSIRO will help with layout. Printing costs are yet to be determined.*

**Action J. Gould**

*54. AST co-chairs to consult with IOC on format and timing of AST-8 to ensure that meeting has maximum beneficial impact.*

**Action AST co-chairs**

*55. National programs should increase efforts to exploit educational outreach potential of Argo.*

**Action Nat. reps**

*56. S. Wijffels will draft letter to Seabird*

**Action S. Wijffels**