BGC-Argo Meeting

Virtual meeting
27 september - 30 september 2021

Agenda – draft

Session 1 - Monday 27/09/2021 - BGC-Argo Best practices 3h
- ➔ Context of the meeting H. Bittig **10'**
- ➔ Float technology and new sensors **40'**
  - ◆ SOLO II BGC **10'** S. Purkey
  - ◆ NKE BGC CTS4, CTS5-USEA, Jumbo float : **10'** E. Leymarie
  - ◆ Sensors: OPUS (NO3), RAMSES (radiometry), UVP (particle size + zooplankton) **10'** E. Leymarie
  - ◆ Discussion **10'**
- ➔ Sensors and float and preparation **30'**
  - ◆ Preparation and programmation **15'**. Poteau
    - ● Fleet analysis of sampling resolution in the current BGC array - Is there a "standard"?
    - ● Procedure for test of sensors and float
    - ● Provor CTS5 GUI
  - ◆ Pre-deployment procedure and ice strategy **10'** N.Poffa
  - ◆ Discussion **5'**
- ➔ Float at Sea: **25'**
  - ◆ Float monitoring:
    - ● EuroArgo fleet web interface, adaptive sampling strategy and energy budget **10 '** R. Cancouët
    - ● Shipboard operations: ancillary data to provide metrological verification of sensors **5'** V. Taillandier
  - ◆ Recovery activities: example of the last MOOSE-GE operations **5'** V. Taillandier
  - ◆ Discussion **5'**
- ➔ Data management: **55'**
  - ◆ BGC-Argo data visualization interface **10'** TBD
  - ◆ Metadata and NVS **10'** V. Paba/M. Donnelly
  - ◆ RT and DM QC **10'** C. Schmechtig
    - ● Automatic adjustment
    - ■ Common equation
  - ◆ GDAC overview **10'** T. Carval
  - ◆ Discussion **15'**

Session 3 - Wednesday 29/09/2021 - Interactions : BGC/Deep Argo and cross networks 3h

- ➔ Implementing O2 sensor on Deep-Argo 1h45
  - ◆ Scientific motivation and users need (sampling, accuracy) (biological community, water mass identification). 10' Laurent Coppola
  - ◆ Scientific results 30' (5 min each)
  - ◆ Sensors readiness (performance versus needed accuracy from the users) and QC 30'
    - ● Aanderaa and SBE63: 20' Henry Bittig
    - ● SBE83 : 10' Steve Riser and Seabird
    - ● AROD-FT: 10' Hiroshi Ushida/Kanako Sato and Hua LI (JFE)
  - ◆ Discussion 30'
- ➔ Cross networks interactions (presentation of the program, 2 slides on what they can do for and expect from Deep Argo, 2 slides on what they can do for and expect from BGC Argo) 1h15
  - ◆ EOV shared by various platforms (T, S, Chla, bbp, pH, O2, UVP) (including data management) 15' Hervé Claustre, Virginie Thierry
  - ◆ DOOS presentation 10' Lisa Levin
  - ◆ OceanGlider presentation 10' Pierre Testor
  - ◆ GO-SHIP presentation 10' TBD
  - ◆ EMSO/Ocean-sites presentation 10' TBD
  - ◆ Discussion on the way forward 20'

Session 4 - Thursday 30/09/2021 - BGC-Argo interaction with users: modeling and ocean color communities

- ➔ Ocean Color 1h30 (E. Organelli, A. Mangin)
  - ◆ From multi- to hyper-spectral radiometry on BGC-Argo floats 15' E. Organelli
  - ◆ BGC-Argo floats for CAL/VAL of OC satellite sensors and product validation 15' A. Mangin
  - ◆ Synergies between OC and BGC-Argo for a 3D ocean 15' R. Sauzède
  - ◆ BGC-Argo for upcoming satellite missions 15' E. Boss
  - ◆ Discussion 30'

- ➔ BGC-modelers/assimilators (J. Lamouroux, G. Cossarini, A. Samuelsen) 1h30
  - ◆ Review of questions, request/needs, from CMEMS working groups: BGC Data Assimilation + Product quality (BGC-Argo)
    - ■ General feedback from groups
    - ■ Discuss the usefulness of new BGCArgo-based products
    - ■ Status on bio-optical modules integration in BGC models (invited speaker: S. Ciavatta 15')
    - ■ How to set up regular meetings for the modelers/assimilators/OC/ BGC-Argo communities to meet and interact.
  - ◆ Discussion 30'