

## ***BGC Profiling Float Workshop Agenda***

Day 1, July 9, 2018

Breakfast at 0800

[Morning session rapporteur B. King]

0830-0850 Introduction and Rationale (Riser)

0850-0950 A discussion of basic float technology: buoyancy engine, CTD (Riser) (hands-on demo)

### **0950-1020 BREAK**

Basic BGC sensors (theory of operation, basics of lab calibration, etc.) (Johnson)

1020-1120 O<sub>2</sub> (Bushinsky)

1120-1220 Nitrate (Johnson)

### **1220-1320 LUNCH** (plus lab tours)

[afternoon session rapporteur A. Fassbender]

1320-1420 (c) pH (Takeshita)

1420-1520 (d) FLBB (Plant)

### **1520-1550 BREAK**

1550-1630 Some programs using BGC floats, underway and future (BGC Argo; SOCCOM, etc.) (discussion led by Johnson/Claustre)

1630-1730 Plans/updates from international float programs

- Mexico
- Canada
- Norway
- Brazil
- France
- Japan
- UK

[Note: there will be some additional time for discussion of these issues on the afternoon of Day 3]

**1730 RECEPTION** (Ocean Sciences Building Lobby)

Day 2, July 10, 2018

Breakfast at 0800

[morning session rapporteur B. Carter]

0830-1030 Sensor adjustment/calibration using field data (30 minutes each)  
(Johnson)

- Oxygen (Bushinsky)
- Nitrate (Johnson)
- pH (Takeshita)
- FLBB (Plant)

### **1030-1100 BREAK**

1100-1230 The path from float data collection to data availability (30 minutes each) (Maurer/Plant/Claustre)

- Data adjustments and calibration procedures (SOCCOM SAGE\_O2 and SAGE)
- Online data availability
- Archiving: Argo GDAC – Coriolis

### **1230-1330 LUNCH** (plus lab tours)

[afternoon session rapporteur N. Williams]

1330-1500 Shipboard support measurements: the synergy of BGC floats and GO-SHIP; measurements outside of GO-SHIP (Talley)

### **1500-1530 BREAK**

1530-1700 Scientific issues that can be addressed by BGC float technology and the potential development of future proposals. [Note: there will be a more detailed discussion of BGC-Argo later] (discussion led by Johnson/Riser/Talley) Various participants will contribute.

**1730 DINNER AT SEABIRD ELECTRONICS** (leave UW at 1730; transportation provided by SBE)

Day 3, July 11, 2018

Breakfast at 0800

[morning session rapporteur A. Gray]

0830-0945 Additional BGC sensors and characteristics of sensors from different manufacturers; development of new sensors and future capabilities (20 minutes each) (Martz)

- Irradiance, plankton imaging, transmissometer beam C (Claustre)
- Total Alkalinity, DIC (Martz, Briggs)
- Gas tension device (GTD), N<sub>2</sub> (Altabet)

0945-1030 BGC float data centers and data distribution; the use of BGC float data, real-time and adjusted; formatting of BGC float data; getting BGC data from Argo and from other online sources (Johnson/Plant/Maurer)

### **1030-1100 BREAK**

1100-1200 Tools for calibration and estimation of other carbon parameters from BGC float data (20 minutes each) (Carter/Williams)

- MLRs/LIAR (Carter)
- pCO<sub>2</sub> corrections from pH (Williams)
- CANYON (Claustre)

### **1200-1300 LUNCH** (plus lab tours)

[afternoon session rapporteur T. Martz]

1300-1500 BGC Argo: the relationship to core-Argo and BGC float experiments: what, where, when, why, cost, etc. (Johnson/Riser)

- BGC Argo relationship to Argo
- EEZ issues, IOC clearances, data system, core floats

### **1500-1530 BREAK**

1530-1700 Continue the discussion of BGC Argo (possible national participation, possible resources, how to continue the planning process, possible new programs) (Johnson/Riser)

Day 4, July 12, 2018

Breakfast at 0800

[morning session rapporteur R. Hamme]

Presentations from manufacturers of BGC float and sensor technology (1-2 hours each) (Riser)

0830-1000 SeaBird Electronics

**BREAK**

1030-1200 Teledyne/Webb

**LUNCH** (30 minutes) (plus lab tours)

(afternoon rapporteur S. Bushinsky)

1230-1345 NKE

1345-1500 RBR

**BREAK**

1530-1630 Aanderaa

1630-1730 Rockland

(ends at 1730)

Day 5, July 13, 2018

Breakfast at 0830

[rapporteur J. Plant]

0900-1030 Meeting summary and discussion; next steps; the connection between individual researchers and larger projects; a summary of potential scientific proposals (Johnson/Riser/Talley)

**1030-1100 BREAK**

1100-1200 Final closing discussion and remarks (Johnson/Riser/Talley etc.)

Meeting ends (lab tours available in the afternoon)