

Float/Glider Workshop Draft Agenda (April 10, 2009)

April 28

- 0800 Continental Breakfast
- 0845 Introduction/Objectives - Ken Johnson
- 0900 OCB/Ocean Time Series Advisory Committee – Debbie Bronk
- 0915 Conflicts of Interest Discussion

Technology Status

- 0930 Platforms – float/gliders – what we have now, what we might want – Russ Davis
- Biogeochemical sensors – suite of ~15 minute talks by experts familiar with each sensor on float/glider platforms. The focus here is mostly on what kind of performance to expect (lifetime, accuracy, drift, ...), not necessarily on the science applications.
- 1010 (25 min) Oxygen, pCO<sub>2</sub>, pH - Arne Kortzinger
- 1035 Break (20 min)
- 1055 (20 min) Active & passive bio-optics (fluorometer, OBS, Trans) – Herve Claustre
- 1115 (15 min) Nitrate – Ken Johnson
- 1130 (15 min) Gas Tension Device – Craig McNeil
- 1145 (15 min) Particulate Inorganic Carbon (PIC) and Carbon Export Sensor – Jim Bishop
- 1200 Lunch
- 1300 Lessons learned in deploying a global array – Steve Riser
- Short talks on biogeochemical processes that we can/could observe (and limitations)
- 1320 Net Community Production/Export - Todd Martz
- 1355 Denitrification/O<sub>2</sub> balance in O<sub>2</sub> minimum – Mark Altabet

1420 Mesoscale processes/eddies – Dennis McGillicuddy

1445 Testing the Sverdrup Hypothesis – Emmanuel Boss

1505 Break

Integration with biogeochemical models and North Atlantic Bloom experience

1520 Integrating biogeochemical modeling with multi-year observing systems – approaches/data assimilation/real time models. Niki Gruber

1600 NASA experience with data assimilating biogeochemical models. Watson Gregg

1615 Overview on North Atlantic Bloom Experiment & Lessons Learned – Mary Jane Perry/Craig Lee/Eric D’Asaro

1730 Reception at MBARI

POSTERS during Reception

April 29

0800 – Continental Breakfast

Multi-year experiments that might be implemented soon - 5 to 15 minute introductions to possible observing systems and requirements.

0905 Eddies/Mesoscale Experiment - Dennis Hansell

0920 North Pacific Carbon Export across the SubTropical Front - Steve Emerson

0935 Southern Ocean Experiment - Zanna Chase

0950 OXYWATCH – Arne Kortzinger

1005 Low Oxygen/Denitrification Experiment - Will Berelson

1020 Multi-year North Atlantic Bloom - MJ Perry/E D’Asaro

Proposals from attendees (will adjust break if necessary)

1035 Break

Breakout groups focused on experiment planning and implementation for projects discussed above – we will need a rapporteur for each group to assist the leads.

1200 Lunch

1330 Breakouts continue - groups may remix as needed.

April 30

0800 Breakfast

0845 Breakouts report in plenary/Discussion

1015 Break

1030 Unmet needs, especially those identified in the Breakout groups. How to solve?

1100 The potential for a global ocean, biogeochemical observing system. – Observations from program managers, Argo representatives... Does it make sense, next steps, beyond pilot scale experiments

1200 Adjourn

Committee will meet over lunch at local restaurant