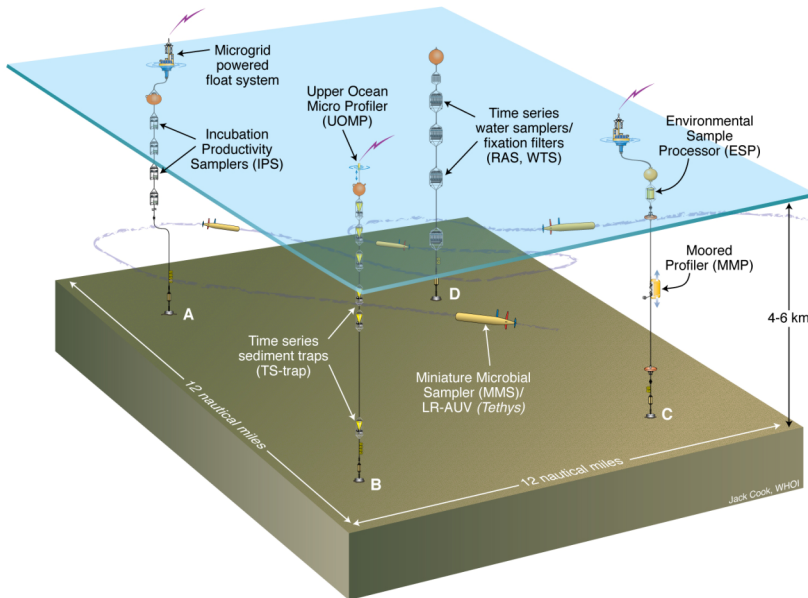


OCB-sponsored Scoping Workshop on
**A Global Biogeochemical Flux program aligned with the
Ocean Observatories Initiative (GBF-OOI)**

May 23-25, 2011

Woods Hole Oceanographic Institution,
Woods Hole, MA



Welcome!

Workshop Organization

- GBF-OOI Scientific Steering Committee (*workshop co-conveners)
 - Sus Honjo*, WHOI
 - Tim Eglinton*, ETH/WHOI
 - Claudia Benitez-Nelson*, USC
 - Astrid Bracher, AWI, Germany
 - Ken Buesseler, WHOI
 - Francisco Chavez, MBARI
 - Kendra Daly, USF
 - John Delaney, UW
 - John Dunne, NOAA/GFDL
 - Stephanie Dutkiewicz, MIT
 - Chris German, WHOI
 - Roberta Hamme, UVic
 - Debora Ignlesias-Rodriguez, Southampton Univ., UK
 - Susan Neuer, Arizona State Univ.
 - Cindy Pilskaln*, U. Mass. Dartmouth
 - Oscar Schofield
 - Heidi Sosik*, WHOI
 - Craig Taylor*, WHOI
 - [Kevin Ulmer, WHOI]
- Patricia White (WHOI)
- OCB office (Heather Benway, Mary Zawoysky)

Thank you to the workshop sponsors

- OCB Project Office
- NSF
- NOAA
- NASA
- WHOI

A Brief History

- Web white paper – call for community input (www.who.edu/gbf-ooi). April 2010.
- OCB Scoping Workshop proposal (submitted July 2010; approved September 2010).
- GBF-SSC convened. Fall 2010.

Goals of the Workshop

- To highlight the need for a comprehensive and sustained observation program that provides crucial information on surface ocean biological productivity, the oceanic biological pump and associated biogeochemical processes, and their role in the global carbon cycle.
- To explore opportunities for the development of a global biogeochemical flux program aligned with the Ocean Observatories Initiative.
- To develop the framework for a Science Plan that would lay the foundation for a global biogeochemical flux observing program.
- To further engage the marine biogeochemical community in OOI science.

Deliverables

- Report to OCB (within 4 weeks after the completion of this meeting).
- Preparation of an article in Oceanography magazine that highlights the findings of the workshop.
- Development of a comprehensive Science Plan for GBF-OOI.
- Identification of topics for follow-up workshops that address specific aspects.

Overall Flow of the Workshop

Day 1:

- The need for/goals of an global biogeochemical flux program.
- Key issues/state of the art in our understanding of upper ocean biological productivity and biogeochemical processes throughout the entire water column and on/in the seafloor.
- An introduction to the OOI.

Day 2:

- Technological challenges and readiness for GBF-OOI.
- Breakout group discussions.

Day 3 (a.m.):

- Further discussions, integration & synthesis, outstanding issues.

Breakout Session Themes

- Upper ocean productivity and export flux.
- Flux attenuation and respiration in twilight zone.
- Deep ocean/Seafloor processes.
- Continental margin fluxes and cross-shelf exchange.

Charge to Breakout Sessions

- **Breakout Session 1: *Critical science questions/hypotheses***
How can the current and proposed observatories be optimized to improve our understanding of the global carbon cycle and our capacity for predicting global environmental change?
- **Breakout Session 2: *Implementation/scope***
How can the proposed GBF Ocean Observatory be best utilized to further specific research goals? How would such advancement at the level of individual research projects contribute to improved understanding of global carbon flux, the overarching goal of the GBF-OOI?
- **Breakout Session 3: *Synthesis, Integration and Public Engagement***
During this breakout session we wish to solicit preliminary ideas on how to ensure that this observatory initiative has broad interest and support, both within the scientific community and with the general public. What potential partnerships could be forged that would provide the broadest and strongest societal connections (communications, education, workforce development and employment opportunities)?

Logistics

- WHOI parking permits (for those w/rental cars).
- Transportation to/from hotels.
- Wireless internet access: GBF (no password needed)
- Workshop dinner.
- Restrooms.
- Speakers – please load talks in advance (both Mac & PC available).
- Talks will be videotaped, and presentations will also be archived using the recording features within Powerpoint or Keynote.
- In order for videotape record to capture the questions from the audience (after/during talks), speakers are requested to repeat questions into the microphone before answering them.
- Poster sessions.
- Locations for Breakout sessions.