**Ocean Biogeochemistry (OCB) Time-series Scoping Workshop**

***Sea change: Charting the course for ecological and biogeochemical ocean time series research***

***Agenda*: September 21-23, 2010**

## Monday September 20, 2010

Participants arrive at Honolulu, Hawaii

Check into New Otani Kaimana Beach Hotel (http://www.kaimana.com/)

## Tuesday September 21, 2010

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| 08:00 | Shuttle bus pick up at New Otani Hotel, transport to Asia Room, East-West Center at University of Hawaii, Manoa |
| 08:15-08:45 | Coffee service |
| 08:45-09:00 | Welcome/Introduction/Workshop objectives (Matthew Church, UH) |
| 09:00-09:55 | The Bermuda Atlantic Time-series Study (Michael Lomas, BIOS) |
| 09:55-10:10 | Coffee break |
| 10:10-11:05 | The Hawaii Ocean Time-series (Matthew Church, UH) |
| 11:05-12:00 | The CARIACO Oceanographic Time-Series Program (Frank Muller-Karger, USF) |
| 12:00-13:00 | Lunch |
| 13:00-13:50 | **Plenary 1: Cross ecosystem perspectives on aquatic biogeochemistry and plankton community structure (Robert Sterner, University of Minnesota)** |
| 13:50-14:50 | Discussion and observations/ input from NSF program managers (Don Rice, Phil Taylor, Dave Garrison) |
| 14:50-15:20 | Coffee break |
| 15:20-16:00 | Ocean Biogeochemistry Research Opportunities Using the Ocean Observatories Initiative Infrastructure (Kendra Daly) |
| 16:00-16:30 | An update on the European network of marine observatories (Richard Lampitt) |
| 16:30-16:45 | The Ocean Time Series Advisory Committee (OTSAC): An introduction (Ken Johnson) |
| 16:45-17:15 | Additional time for discussion |
| 17:15 | Shuttle bus return to hotel |
| 18:30 | Shuttle bus pick up at the New Otani Hotel for transport to banquet at The Willows Restaurant (http://www.willowshawaii.com/). |
| 19:45 | **Evening plenary: "The Joy of ocean Time-Series" (David Karl, University of Hawaii)** |
| 21:00 | Shuttle bus return to New Otani Hotel |

**Wednesday September 22, 2010**

08:00 Shuttle bus pick up at New Otani transport to Asia Room, East-West Center at University of Hawaii, Manoa

08:15-8:55 Coffee service

08:55-09:00 Announcements/ Introduction to the day's activities

09:00-09:50 **Plenary 2: Biogeochemical and ecological coupling or decoupling of the epiplagic and deep sea: regional to global implications (Richard Lampitt, NOC, Southampton)**

09:50-10:05 Coffee break

10:05-11:30 Working Group discussions: *Critical science directions for the ongoing OCB time series: scope, feedbacks, and direction*

- *What science questions must the OCB time series programs continue to address?*
- *What critical science questions are currently not being addressed or adequately resolved by the OCB time series programs? Are we missing key pools/rates? What are appropriate time and space scales necessary to resolve these questions?*
- *From a practical perspective can these questions be addressed?*
- *Is there need to integrate or network the on-going OCB time series efforts beyond the current level of interaction? Would such integration address unresolved science questions? What would the critical elements of this integration include?*

11:30-12:30 Working group reports

12:30-13:30 Lunch

13:30-14:20 **Plenary 3: Autonomous platform time series (Ken Johnson, MBARI)**

14:20-15:00 Coffee available

14:20-16:45 Working Group discussions: *Coordination and implementation of novel sensing technologies at ocean time series:*

- *Current and future science questions and motivations*
- *Available/emerging platforms & sensors to address these questions*
- *Explore technology challenges that need to be addressed*
- *Practical and workforce considerations*
- *Integrating shipboard, autonomous in situ, and satellite time series with models*
- *Extending time series to regional and global scales*

16:45-18:00 Working group reports/discussion

18:00 Shuttle bus return to hotel; dinner on your own

**Thursday September 23, 2010**

08:00 Shuttle bus pick-up at New Otani transport to Asia Room, East-West Center at University of Hawaii, Manoa

08:15-08:55 Coffee service

08:55-0:900 Announcements/ introduction to the day's activities

09:00-09:50 **Plenary 4: Ocean-time series as windows into scales of variability in the sea (Francisco Chavez, MBARI)**

09:50-10:05 Coffee break

10:05-12:30 Working Group discussions: *Defining future ocean time-series science activities:*

- *What role do and can the ship-based time-series programs play in emerging ocean observing programs?*
- *What is the right balance between ship-based time-series, moorings, gliders, remote sensing, etc. for the future time-series?*
- *Data management and synthesis –can we use/improve existing data repositories to improve our view of ocean processes at the time series sites?*

12:30-13:30 Lunch

13:30-14:30 Working group reports/discussion

14:30-14:45 Concluding remarks (Matthew Church, UH)

14:45 Shuttle bus return to hotel

14:45-18:00 Scoping workshop steering committee convenes to begin drafting workshop report

**Friday September 24, 2010**

Check out of New Otani Hotel