

Ocean Carbon and Biogeochemistry Workshop 2009: Video Files from the Workshop

Monday July 20, 2009

08:30 Introduction (*Scott Doney, WHOI*)

Quicktime

http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB09/OCB7_20A.mov

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RealPlayer

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08:40 Data Management for OCB Projects (*Cyndy Chandler, BCO-DMO*)

Quicktime

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09:00 Session 1. The Next U.S. Carbon Cycle Science Plan

Chair: *Chris Sabine (NOAA/PMEL)*

09:00 Overview of next CCSP (*Chris Sabine, NOAA/PMEL*)

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09:20 How NACP and the terrestrial community see themselves fitting into the new science plan (*Ken Davis, Penn State*)

Quicktime

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09:40 Social sciences and decision support in the new science plan (*Lisa Dilling, U Colorado*)

Quicktime

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10:30 Panel introduction and opening remarks (*Paula Bontempi, Bob Anderson, Galen McKinley, Andy Jacobson, Ken Davis, Lisa Dilling; Chris Sabine, moderator*)

Quicktime

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13:30 Session 2. Ocean Acidification: Frontiers in Understanding Physiological and Ecological Responses Chair: *Joan Kleypas (NCAR)*

13:30 Global change functional genomics in the study of ocean acidification (*Gretchen Hofmann, UCSB*) Quicktime

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14:00 Changing nutrient cycles and ocean biology in a high-CO₂ world (*David Hutchins, USC*)

Quicktime

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14:30 Questions and open discussion

Quicktime

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15:30 Update on U.S. ocean acidification activities (*Joan Kleypas, NCAR*)

Quicktime

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15:35 Addressing ecological thresholds in ocean acidification research (*Cisco Werner, Rutgers*)

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Tuesday July 21, 2009

08:30 Session 3. Observing Systems and Time-Series

Chairs: *Deborah Bronk (VIMS), Matthew Church (U Hawaii)*

08:30 What Repeat Hydrography can tell us about decadal-scale changes in the ocean carbon system (*Richard Feely, NOAA/PMEL*)

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09:00 OOI - Design and capabilities to address OCB research (*Susan Banahan, Consortium for Ocean Leadership*) Quicktime

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09:30 Potential for global-level observations of ocean biogeochemistry with gliders (*Oscar Schofield, Rutgers*) Quicktime

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10:00 Questions for speakers and open discussion

Quicktime

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11:00 OCB Floats and Gliders Scoping Workshop report (new OCB directions/outcomes) (*Ken Johnson, MBARI*) Quicktime

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11:30 Open discussion

Quicktime

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14:00 Session 4. NACP/OCB Coastal Interim Synthesis Activities

Chairs: *Paula Coble (USF), Simone Alin (NOAA/PMEL)*

14:00 Overview of coastal synthesis activities (*Coble/Alin*)

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14:15 Terrestrial-marine-atmospheric linkages in the Gulf of Mexico (*Scott Denning*) (30-min. remote talk followed by 15 minutes for questions and open discussion)

Quicktime

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15:00 Coastal carbon budgets along U.S. east coast (*Ray Najjar, Penn State*)

Quicktime

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15:30 Coastal carbon budgets in the Arctic and marginal seas (*Jeremy Mathis, U AK*)

Quicktime

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16:00 Open discussion

Quicktime

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Wednesday July 22, 2009

08:30 Session 5. The Future of OCB Research in the Southern Ocean

Chairs: *Kendra Daly (USF), David Ho (U Hawaii)*

08:30 Introduction and summary of Southern Ocean Scoping Workshop (new OCB directions/outcomes) (*Kendra Daly, USF*)

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09:15 Overview of Southern Ocean GasEx Project (*David Ho, U Hawaii*)

Quicktime

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09:30 SO GasEx results and satellite techniques for determining Southern Ocean CO₂ sources/sinks (*Pete Strutton, OSU*)

Quicktime

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10:00 Open discussion

Quicktime

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11:00 Southern Ocean particle fluxes (*Phoebe Lam, WHOI*)

Quicktime

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11:30 Open discussion

Quicktime

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14:00 Session 6. Implementing Research at the Intersection of Ocean Chemistry and Biology

Chairs: *Bob Anderson (LDEO), Kathy Barbeau (SIO)*

14:00 GEOTRACES overview talk (*Bob Anderson, LDEO*) Quicktime

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Questions

Quicktime

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14:30 Current research in micronutrient-ecosystem interactions (*Kathy Barbeau, SIO*)

Quicktime

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15:00 Open discussion and advocacy presentations: (Brief (~5 minute) presentations on relevant

measurements, process studies or scientific themes speakers would like to publicize or advocate.

Part 1

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Part 2

Quicktime

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Part 3

Quicktime

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Thursday July 23, 2009

08:30 International Program Updates

IMBER (*Mike Roman*)

Quicktime

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CARBOOCEAN (*Elizabeth Shadwick*)

Quicktime

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IOCCP (*Chris Sabine*)

Quicktime

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SOLAS (*Wade McGillis*)

Quicktime

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09:10 Agency updates

NSF (*Don Rice*)

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NASA (*Fred Lipschultz*)

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NOAA (*Ken Mooney, Joel Levy*)

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09:45 Session 7. The Next U.S. Carbon Cycle Science Plan Revisited

Chair: *Chris Sabine (NOAA/PMEL)*

09:45 Open Discussion (see discussion questions below):

o Based on the three overarching questions identified for the new plan, what are the priorities for ocean carbon research in the next decade?

o The new overarching questions place a much stronger emphasis on human dimensions. How will/should this affect the OCB community and how we conduct our science?

o What is an appropriate balance between basic carbon cycle research and research aimed at providing information for policy and decision support?

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11:50 Closing remarks and wrap-up (*Scott Doney, WHOI*)

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