

# Ocean Carbon and Biogeochemistry Workshop 2012: Agenda with Presentations and Videos

## Related Materials

[2011 U.S. Carbon Cycle Science Plan](#)

## Agenda

Ocean Carbon and Biogeochemistry (OCB) Summer Workshop  
Woods Hole Oceanographic Institution, Clark 507  
July 16-19, 2012

Monday July 16, 2012

07:30-08:30 Continental Breakfast, hang posters

08:30 Introduction and announcements (Benway/Doney, Woods Hole Oceanographic Inst.)

### Session 1. [Multiple Stressors in Marine Ecosystems](#)

Chair: Cindy Lee (Stony Brook Univ.)

08:40 Impact of multiple stressors on fisheries (Jorge Sarmiento, Princeton Univ.)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/1-Jorge.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/1-Jorge.webm)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/1-JorgeR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/1-JorgeR.mov)

09:20 [Multiple stressors on upwelling margins: Untangling biological effects of hypoxia, hypercapnia and temperature](#) (Lisa Levin, Scripps Inst. of Oceanography)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/2-Levin.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/2-Levin.webm)

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10:00 Break

10:30 [Multiple stressors in coastal ocean environments – rethinking the impact of ocean acidification](#) (Wei-Jun Cai, Univ. of Georgia)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/3-Wei-Jun.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/3-Wei-Jun.webm)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/3-Wei-JunR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/3-Wei-JunR.mov)

11:10 [Multiple stressors in eastern boundary upwelling regions](#) (Nicolas Gruber, ETH Zurich)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/4-Gruber.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/4-Gruber.webm)

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11:50 [Recent developments and forthcoming international activities in the study of multiple stressors](#) (Philip Boyd, NIWA, Univ. of Otago)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/5-Boyd.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/5-Boyd.webm)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/5-BoydR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/5-BoydR.mov)

12:00 Panel discussion

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/6-Panel.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/6-Panel.webm)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/6-PanelR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/6-PanelR.mov)

12:30 Lunch

Session 2. Ocean biogeochemistry from satellite data

Chair: David Siegel (Univ. of California, Santa Barbara)

14:00 [A tutorial on satellite ocean color remote sensing](#) (David Siegel, Univ. of California, Santa Barbara) Video not available.

14:45 [Science goals and objectives from the NASA PACE \(Pre-Aerosol, Clouds, and ocean Ecosystem\) Science Definition Team report](#) (Michael Behrenfeld, Oregon State Univ.)

Video not available.

15:30 Break

16:00 [NASA PACE Science Definition Team report approach and recommendations](#) (Carlos Del Castillo, Johns Hopkins Univ.)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/8-DelCastillo.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/8-DelCastillo.webm)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/8-DelCastilloR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/8-DelCastilloR.mov)

16:45 Panel discussion and community input to PACE

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day1/9-Panel2.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/9-Panel2.webm)

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17:15-19:30 Poster session and reception (Clark 2 foyer)

Tuesday July 17, 2012

07:30-08:45 Continental Breakfast, hang posters

08:45 [GEOTRACES: Highlights of recent scientific findings](#) (William Jenkins, Woods Hole Oceanographic Inst.)

[http://mex1.who.edu:8080/http2/WHOI\\_CMS/Events/OCB2012/Day2/10-Jenkins.webm](http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/10-Jenkins.webm)

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Robert F. Anderson, Lamont-Doherty Earth Observatory

[http://mex1.who.edu:8080/http2/WHOI\\_CMS/Events/OCB2012/Day2/11-Next.webm](http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/11-Next.webm)

[http://mex1.who.edu:8080/http2/WHOI\\_CMS/Events/OCB2012/Day2/11-NextR.mov](http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/11-NextR.mov)

09:30 [Student 2-minute presentations](#)

[http://mex1.who.edu:8080/http2/WHOI\\_CMS/Events/OCB2012/Day2/12-Students.webm](http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/12-Students.webm)

[http://mex1.who.edu:8080/http2/WHOI\\_CMS/Events/OCB2012/Day2/12-StudentsR.mov](http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/12-StudentsR.mov)

10:30 Break

11:00 [A pilot program to characterize the geography and impact of microbial biomes](#) (Jim Moffett, Univ. of Southern California)

[http://mex1.who.edu:8080/http2/WHOI\\_CMS/Events/OCB2012/Day2/13-Moffett1.webm](http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/13-Moffett1.webm)

[http://mex1.who.edu:8080/http2/WHOI\\_CMS/Events/OCB2012/Day2/13-MoffettR.mov](http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/13-MoffettR.mov)

11:30 Questions and discussion

[http://mex1.who.edu:8080/http2/WHOI\\_CMS/Events/OCB2012/Day2/14-Panel3.webm](http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/14-Panel3.webm)

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12:00 Lunch

12:30-13:30 GROUP 1. BCO-DMO hands-on tutorial (Cyndy Chandler, Woods Hole Oceanographic Inst.) – Group Training Facility, Clark 141

[Part 1](#)

[Part 2](#)

Session 3. Land-ocean transport and linkages with global change

Chair: Thomas S. Bianchi (Texas A&M Univ.)

13:30 [River transport and fluxes – freshwater, carbon, nutrients, etc.](#) (Valier Galy, Woods Hole Oceanographic Inst.) Video not available.

14:10 [River plume processes and dynamics](#) (Steve Lohrenz, Univ. of Massachusetts, Dartmouth) Video not available.

14:50 [The benthic processing of terrestrial organic matter on river-dominated margins](#) (Neal Blair, Northwestern Univ.) Video not available.

15:30 Break

16:00 [Anthropogenic alteration of dissolved inorganic carbon fluxes from watersheds](#) (Peter Raymond, Yale University)

[http://mex1.who.edu:8080/http2/WHOI\\_CMS/Events/OCB2012/Day2/16-Raymond.webm](http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/16-Raymond.webm)

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16:40 Questions and discussion

[http://mex1.who.edu:8080/http2/WHOI\\_CMS/Events/OCB2012/Day2/17-Panel4.webm](http://mex1.who.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/17-Panel4.webm)

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16:30 Special event for students and postdocs: Program Managers Research Funding Panel (Carriage House)

17:10 Poster session (Clark 2 foyer)

17:30-18:30 GROUP 2. BCO-DMO hands-on tutorial (Cyndy Chandler, Woods Hole Oceanographic Inst.) – Group Training Facility, Clark 141

Dinner on your own

Wednesday July 18, 2012

07:30-08:30 Continental Breakfast, hang posters

Session 4. Integrating measurements across multiple time and space scales

Chair: Craig Carlson (Univ. of California, Santa Barbara)

08:30 [Recent and upcoming U.S. and international time-series activities](#) (Craig Carlson, Univ. of California, Santa Barbara)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/17-CarlsonR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/17-CarlsonR.mov)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/17-Carlson.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/17-Carlson.webm)

08:45 [Ocean Station Papa time-series](#) (Steve Emerson, Univ. of Washington)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/18-EmersonR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/18-EmersonR.mov)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/18-Emerson.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/18-Emerson.webm)

09:25 [California Current Ecosystem Dynamics: A multi-scale perspective](#) (Mark Ohman, Scripps Inst. of Oceanography)

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[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/19-Ohman.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/19-Ohman.webm)

10:05 [Patterns of phytoplankton limitation and hypoxia in the northern Gulf of Mexico: Observations, simulations and predictability](#) (Katja Fennel, Dalhousie Univ.)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/20-FennelR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/20-FennelR.mov)

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10:45 Break

11:15 [The REgional Carbon Cycle Assessment and Processes \(RECCAP\) effort](#) (Galen McKinley, Univ. of Wisconsin, Madison)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/21-McKinleyR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/21-McKinleyR.mov)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/21-McKinley.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/21-McKinley.webm)

11:55 Questions and discussion

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[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/22-Panel5.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/22-Panel5.webm)

12:30 Lunch

13:00-14:00 GROUP 3. BCO-DMO hands-on tutorial (Cyndy Chandler, Woods Hole Oceanographic Inst.) – Group Training Facility, Clark 141

Session 5. New observations from an Arctic Ocean in rapid transition

Chair: Jeremy Mathis (Univ. of Alaska, Fairbanks)

14:00 [ICESCAPE \(Impacts of Climate change on the Eco-Systems and Chemistry of the Arctic Pacific Environment\): Overview of scientific findings](#) (Jeremy Mathis, Univ. of Alaska, Fairbanks)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/23-MathisR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/23-MathisR.mov)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/23-Mathis.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/23-Mathis.webm)

14:40 [Transformation and fluxes of carbon in a changing Arctic Ocean and it's impact on ocean acidification, the Atlantic view](#)(Leif Anderson, Univ. of Gothenburg)  
[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/24-AndersonR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/24-AndersonR.mov)

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15:20 Questions and discussion

15:30 Break

16:00 [NASA Terrestrial Ecology Program's proposed Arctic field campaign: the Arctic-Boreal Vulnerability Experiment \(ABoVE\)](#) (Peter Griffith, NASA GSFC)  
([Accompanying informational ABoVE executive summary document](#))  
[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/25-GriffithR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/25-GriffithR.mov)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/25-Griffith.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/25-Griffith.webm)

16:15 Community discussion and feedback on ABoVE

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/26-Panel6R.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/26-Panel6R.mov)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day3/26-Panel6.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/26-Panel6.webm)

16:30 Poster session (Clark 2 foyer)

18:00-21:00 Workshop dinner (Fenno lawn, under the tent)

Thursday July 19, 2012

07:30-08:30 Continental Breakfast

08:30 Agency updates

o NOAA (Dwight Gledhill) – [NOAA update and report on International Ocean Acidification Observing Network workshop](#)(June 2012, Seattle, WA)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day4/28-GledhillR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/28-GledhillR.mov)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day4/28-Gledhill1.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/28-Gledhill1.webm)

o NSF (David Garrison, Donald Rice)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day4/29-NSFR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/29-NSFR.mov)

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o NSF (Baris M. Uz)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day4/30-UzR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/30-UzR.mov)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day4/30-Uz.webm](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/30-Uz.webm)

o NASA (Paula Bontempi)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day4/27-BontempiR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/27-BontempiR.mov)

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10:00 Break

10:30 [Revised North American Coastal Carbon Budgets: An Update on the NACP/OCB Coastal Synthesis Activity](#) (Marjorie Friedrichs, Virginia Institute of Marine Science, given by Wei-Jun Cai, Univ. of Georgia)

11:00 A U.S. Carbon Cycle Science Plan for the next decade: Where do we go from here?  
(Community discussion moderated by Kendra Daly, Univ. of South Florida)

[http://mex1.who.edu:8080/http/WHOI\\_CMS/Events/OCB2012/Day4/31-DalyWrapR.mov](http://mex1.who.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/31-DalyWrapR.mov)

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12:00 Adjourn and Lunch

13:00 OCB Scientific Steering Committee (SSC) meeting, Clark 271 (OCB SSC members and agency representatives only)

*Last updated: August 20, 2012*

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