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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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/1-Jorge.webm

http://mex1.whoi.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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/2-Levin.webm

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/2-LevinR.mov

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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/3-Wei-Jun.webm

http://mex1.whoi.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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/4-Gruber.webm

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/4-GruberR.mov

11:50 Recent developments and forthcoming international activities in the study of multiple stressors(Philip Boyd, NIWA, Univ. of Otago)
http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/5-Boyd.webm

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/5-BoydR.mov

12:00 Panel discussion
http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/6-Panel.webm

http://mex1.whoi.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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/8-DelCastillo.webm

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/8-DelCastilloR.mov

16:45 Panel discussion and community input to PACE
http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/9-Panel2.webm

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day1/9-Panel2R.mov
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.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/10-Jenkins.webm

http://mex1.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/10-JenkinsR.mov

Robert F. Anderson, Lamont-Doherty Earth Observatory
http://mex1.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/11-Next.webm

http://mex1.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/11-NextR.mov

09:30 Student 2-minute presentations
http://mex1.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/12-Students.webm

http://mex1.whoi.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.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/13-Moffett1.webm

http://mex1.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/13-MoffettR.mov

11:30 Questions and discussion
http://mex1.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/14-Panel3.webm

http://mex1.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/14-Panel3R.mov

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.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/16-Raymond.webm

http://mex1.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/16-RaymondR.mov

16:40 Questions and discussion
http://mex1.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/17-Panel4.webm

http://mex1.whoi.edu:8080/http2/WHOI_CMS/Events/OCB2012/Day2/17-Panel4R.mov

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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/17-CarlsonR.mov

http://mex1.whoi.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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/18-EmersonR.mov

http://mex1.whoi.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)
http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/19-OhmanR.mov

http://mex1.whoi.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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/20-FennelR.mov

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/20-Fennel.webm

10:45 Break

11:15 The REgional Carbon Cycle Assessment and Processes (RECCAP) effort (Galen McKinley, Univ. of Wisconsin, Madison)
http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/21-McKinleyR.mov

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/21-McKinley.webm

11:55 Questions and discussion
http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/22-Panel5R.mov

http://mex1.whoi.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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/23-MathisR.mov

http://mex1.whoi.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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/24-AndersonR.mov

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/24-Anderson.webm

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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/25-GriffithR.mov

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/25-Griffith.webm

16:15 Community discussion and feedback on ABoVE
http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day3/26-Panel6R.mov

http://mex1.whoi.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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/28-GledhillR.mov

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/28-Gledhill1.webm

o NSF (David Garrison, Donald Rice)
http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/29-NSFR.mov

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/29-NSF.webm

o NSF (Baris M. Uz)
http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/30-UzR.mov

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/30-Uz.webm

o NASA (Paula Bontempi)
http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/27-BontempiR.mov

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/27-Bontempi.webm

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.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/31-DalyWrapR.mov

http://mex1.whoi.edu:8080/http/WHOI_CMS/Events/OCB2012/Day4/31-DalyWrap.webm

12:00 Adjourn and Lunch

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

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