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

# POSTER LIST

On the morning of your designated session, please hang posters on the boards set up in the Clark 2 foyer (main entrance to the building) using the hanging materials provided. Posters must be taken down at the end of each day.

## Session 1. Multiple stressors in marine ecosystems (Monday July 16, 2012)

**D. Breitburg** et al., Diel cycling hypoxia and pH: Oyster disease dynamics, ecosystem services, and implications for restoration success

**C. Cisternas-Novoa** et al., Gel particles and aggregation under high $CO_2$ and temperature conditions: Preliminary results from mesocosm experiment

**S. Dutkiewicz** et al., Factors controlling diazotroph biogeography

**C. L. Hurd et al.**, Metabolically induced pH fluctuations by some coastal calcifiers exceed projected 22nd century ocean acidification: A mechanism for differential susceptibility?

**A. E. Maas** et al., Exploring the gene expression and physiological response of pteropods to high $CO_2$ and its synergistic interaction with low $O_2$

**M. C. Nielsdóttir** et al., Iron requirement for coastal and oceanic strains of *Emiliania huxleyi*

**A. Romanou** et al., Carbon cycle sensitivities in modeling biological processes in the NASA-GISS climate model

**K. A. Smith** et al., An ecophysiological model of particle remineralization in the deep ocean

**L. Wickes** & P. Etnoyer, Growth and distribution of *Lophelia pertusa* under 'acidified' conditions in the Southern California Bight

**Y. Xiao** & M. A. M. Friedrichs, A satellite-data assimilative study of the lower trophic level ecosystem on the northeast U.S. continental shelf

## Session 2. Ocean biogeochemistry from satellite data (Monday July 16, 2012)

**C. Beaulieu** et al., Detection of long-term trends in satellite ocean chlorophyll data

**G. Dall'Olmo** et al., Towards synoptic estimates of the metabolic status of the North Atlantic subtropical gyre

**X. He** et al. (**Presenter: C-T. A. Chen**), Cyclone-driven terrestrial material transport to the Okinawa Trough: direct satellite observations

**J. F. Marra** et al. **(Presenter: V. P. Lance)**, Resolving the depth of the ocean's productive layer

**S. Milutinovic** & L. Bertino, Assessment and propagation of uncertainties in input terms through an ocean-colour-based model of primary productivity

**P. Naik** et al., Sensitivity of remote sensing reflectance to variability in absorption and backscattering in the southeastern Bering Sea

**N.B Nelson** et al., CDOM as a deep-ocean proxy for oxygen and AOU

**O. Ogunro** et al., Impact of increasing dimethylsulfide flux on reflectivity in Antarctica: A possible positive feedback on the westerly winds

**M. Omand** et al., Time scales of variability of chlorophyll and temperature from satellite data

**J. C. Robidart** et al., Examination of nitrogen fixation and microbial community dynamics within mesoscale eddies in the North Pacific Subtropical Gyre using autonomous drifting platforms

**S. Roy** et al., Remote-sensing-based assessment of the temporal variations of phytoplankton growth rate and mortality

**S. R. Signorini** et al., Assessment and impact of carbon variability in the Nordic Seas

**A. E. White** et al., Primary productivity as a function of absorption, pigment based phytoplankton diversity and particle size distribution

## Session 3. Land-ocean transport and linkages with global change (Tuesday July 17, 2012)

**M. Friedrichs** et al., Coastal carbon fluxes along the U.S. eastern continental shelf derived from a coupled biogeochemical-circulation model

**M. Herrmann** et al., Net ecosystem production of U.S. east coast estuaries

**H.-C. Kim** et al., Implications of climate-driven freshwater inflow changes to ecosystem responses in lagoonal estuaries of western Gulf of Mexico

**J. A. Needoba** et al., Quantifying net transport of river nutrients and organic carbon to the Columbia River estuary using in situ sensors

**Y. Plancherel** et al., A global perspective on the distribution of the lanthanides in the ocean: influence of boundary sources and role of the internal particle field

**Z. A. Wang** & K. Hoering, Temporal and spatial variability of the riverine inorganic carbon system in the Mackenzie River and beyond

## General OCB Session (Tuesday July 17, 2012)

**S. R. Beaupré** & T. Eglinton, POC provenance insights from ramped thermal degradation and $^{14}C$ analyses

**R. Bernardello** et al. **(Presenter: I. Marinov)**, Compensating responses of the ocean carbon pumps to ocean circulation changes over the 21$^{st}$ century

**A. Cabre** et al., Response of phytoplankton to climate change in the northern vs. southern hemisphere: An IPCC AR5 Earth System Model intercomparison

**C. L. Chandler** et al., The Biological and Chemical Oceanography Data Management Office (BCO-DMO)

## Session 4. Integrating measurements across multiple time and space scales (Wednesday July 18, 2012)

**H. Brix** et al., Optimization of a global biogeochemical model using in-situ observations
**K. N. Buck**, The organic complexation of dissolved iron in NE Atlantic depth profiles: Preliminary results from the first leg of the U.S. GEOTRACES North Atlantic Section
**K. E. Fogaren** et al., Porewater temporal variability in a wave-impacted permeable sediment
**C. M. Lee** et al. **(Presenter: M. J. Perry)**, Strategies for autonomous sensors
**D. Nicholson** et al., Modeling dissolved gas tracers of primary productivity
**N. Nidzieko**, An autonomous underwater vehicle for shelf, coastal, and estuarine oceanography
**M. Pedulli** & J. J. Bisagni, Estimates of potential new production (PNP) for the waters off the Western Antarctic Peninsula (WAP) region
**M. J. Perry** et al., New views of the subpolar North Atlantic Spring Bloom, from NAB 2008
**G. Stewart** et al., Connecting seasonal and spatial trends in plankton community structure with POC export using the Po-210/Pb-210 isotope pair along Line P, Subarctic Pacific

## Session 5. New observations from an Arctic Ocean in rapid transition (Wednesday July 18, 2012)

**S. Archer** et al., Contrasting responses to ocean acidification of DMS and its precursor DMSP in Arctic waters
**C. Arnosti**, A narrow enzymatic gateway into the Arctic carbon cycle: Implications for DOC cycling in changing oceans
**B. Chen** et al. **(Presenter: W-J. Cai)**, Increased biological $CO_2$ uptake following sea-ice retreat in the Western Arctic Ocean
**J. N. Cross** & J. T. Mathis, Carbonate mineral suppression and ocean acidification in the eastern Bering Sea
**E. Kasischke** et al. **(Presenter: P. Griffith),** The Arctic-Boreal Vulnerability Experiment: A proposed NASA Terrestrial Ecology Field Campaign
**R. H. R. Stanley** et al., The effect of sea ice on gross primary production and net community production: A study in the Canada Basin
**A. Strong** & K. Arrigo, Understanding continental shelf carbon dynamics: Recent patterns of carbon drawdown and export on the Chukchi Sea shelf