Ocean Carbon and Biogeochemistry (OCB) Summer Workshop
Woods Hole Oceanographic Institution, Clark 507
July 22-25, 2013

POSTER LIST

On the morning of your designated poster 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. Narrowing in on key biological carbon fluxes: Estimates, approaches, and uncertainties (Monday, July 22 poster session)

H. Alexander et al., Eukaryotic metatranscriptomics illuminates physiological response of phytoplankton to nutrient pulses at Station ALOHA

B. Bachman et al., Biomass and primary productivity of picophytoplankton communities in warm-core and cold-core eddies in the Sargasso Sea

A. Bourbonnais et al., Mesoscale eddies as fixed N-loss hotspots in the oxygen minimum zone off Peru

P. Bresnahan, Best practices for autonomous measurements of seawater pH with the Honeywell Durafet

H. Chen et al., Observed dominance of submesoscale fronts to subtropical chlorophyll

M. Claret et al., Plankton resonant response to light and nutrients in mesoscale vortices

R. Eveleth et al., Physical and biological controls on gas saturation variability in the Central Arctic

C. Follett et al., Hidden cycle of dissolved organic carbon in the deep ocean

M. Humphreys et al., Increases in dissolved inorganic carbon at all depths measured in the eastern North Atlantic from 1989 to 2012: the Extended Ellett Line

V. Kitidis et al. **(Presenter: T. Smyth)**, The Western Channel Observatory: A platform for carbon chemistry

D. Y. Lee et al., Microbial autotrophic and heterotrophic carbon cycles within oxyclines during seasonal oxygen transition in the Chesapeake Bay

S. Milutinovic et al., Partitioning phytoplankton carbon biomass into three size groups using satellite ocean colour observations

F. Muller-Karger et al., The CARIACO ocean time-series program: Long-term observations of key carbon fluxes in a tropical continental margin

S. Noakes, Carbon dioxide and water quality time-series observations at Gray's Reef National Marine Sanctuary

C. Pilskaln et al., Carbon budget for the Gulf of Maine from time-series data sets

T. Richardson et al., Characterization of phytoplankton size and taxonomic composition by shipboard streak imaging multivariate optical computing (SSIMOC)

D. Siegel & K. Buesseler, Export Processes in the Ocean from Remote Sensing (EXPORTS) - Planning a NASA field campaign

M. Stukel & M. Landry, Carbon and 234Thorium fluxes associated with a deep-water front in the California Current Ecosystem Long-Term Ecological Research site

Y. Takeshita et al., Calibrating the Deep Sea Durafet

C.-M. Tseng et al., Synthesis of observed air-sea CO_2 exchange fluxes in the river-dominated East China Sea and improved estimates of annual and seasonal net mean fluxes

A. White et al., Multi-scalar particle dynamics at Station ALOHA with an aside regarding the influence of colored dissolved organic material on chlorophyll retrievals

P. Xiu & F. Chai, Variability of sea surface pCO_2 and CO_2 flux in the North Pacific

Z. Xue et al., Assess and project impacts of human activity and climate change on carbon and nutrient dynamics in the Gulf of Mexico

Session 2. Evolutionary responses of plankton to climate change (Wednesday, July 24 poster session)

D. Hutchins et al., A new Gordon Research Conference on Ocean Global Change Biology

A. Marki & M. Pahlow, Modelling responses in mesocosm food web succession to changes in nutrient stoichiometry

A. Omta et al., On the potential role of marine calcifiers in glacial-interglacial dynamics

H. Sosik & R. Olson, Seasonality, interannual variability, and multi-year trends in phytoplankton of the New England Shelf

Session 3. Trace element-biota interactions (Wednesday, July 24 poster session)

R. Boiteau et al., Fe ligands produced by *Prochlorococcus*

O. Matoo et al., Interactive effects of CO_2 and trace metals on the proteasomal activity, metabolism and stress response of marine bivalves *Crassostrea virginica* and *Mercenaria mercenaria*

M. Nielsdóttir et al., The uptake of iron during spring and summer in the Irminger and Iceland Basin using carrier free ^{55}Fe

H. Traggis, Iron limitation effects a massive shift in iron- and flavin-based antioxidant enzyme systems and their substrates in the chlorophyte alga *Dunaliella tertiolecta*

Session 4. Southern Ocean processes (Wednesday, July 24 poster session)

H. Brix & D. Menemenlis, Air-sea gas exchange revisited: Improving Southern Ocean carbon fluxes in a global biogeochemical model

M. Jiang et al., Fe transport from the Antarctic shelf and the impacts on phytoplankton blooms in the southern Scotia Sea

D. Kaufman et al., Biogeochemical variability in the Ross Sea: Results from a glider deployment

M. Kavanaugh et al., Spatiotemporal variability of satellite-derived chl-*a* along the West Antarctic Peninsula: Role of submarine canyons

Z. Lee, Optical properties and primary production in the Southern Ocean (SO GasEx)

S. Leung et al. (**presenter: I. Marinov**), Response of phytoplankton to 21st century climate change in the Southern Ocean: an Earth System Model intercomparison

O. Ogunro et al., Marine aerosol and its possible contribution to the changing westerly winds

M. Pedulli et al., Use of a simplified analytical model to estimate potential new production (PNP) for the waters off the Western Antarctic Peninsula (WAP) region

E. Salmon et al., NPZD-iron lower level ecosystem model of the Ross Sea

Session 5. General (Wednesday, July 24 poster session)

F. DeGroff, Carbon management in the post-Cap-and-Trade carbon economy: An economic model for limiting climate change by managing anthropogenic carbon flux

F. Garcia Tigreros & S. Yvon-Lewis**,** The combined effect of ocean acidification and eutrophication on water pH and aragonite saturation in the northern Gulf of Mexico

E. Jones & J. Wiggert, Biophysical interaction associated with the cross-shelf transport of the Mississippi River Plume

A. Taalba et al., Photooxidation of dimethylsulfide (DMS) in the Canadian Arctic