

OCB 2017 Poster List

| First Author | Title | Day |
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| Plenary Session 1: Carbon fluxes in coastal wetlands: What is state-of-the-art? | | |
| E. Canuel | Particulate organic carbon composition at the marsh-estuary interface in Chesapeake Bay | Tuesday |
| S. Chu | Assessing inorganic carbon export from intertidal salt marshes using direct, high-frequency measurements | Monday |
| J.B. Clark | Insights gained from a wetland-estuary dissolved organic matter modeling system | Monday |
| M. Couturier | Carbon dynamics at the land-ocean interface through a subterranean estuary | Monday |
| K. Czapla | Salt marsh metabolism and carbon accumulation: effects of location and fertilization | Monday |
| I. Forbrich | Variation in salt marsh CO ₂ fluxes across a latitudinal gradient along the US Atlantic Coast | Monday |
| M. Friedrichs | Air-sea CO ₂ variability in the Chesapeake Bay | Monday |
| S. Knox | Biophysical controls on ecosystem-scale CO ₂ exchange in a tidal marsh in Northern California | Monday |
| S. Lohrenz | Characterizing climate and Human influences on coastal margin carbon dynamics using integrated land-ocean modeling approaches | Monday |
| M. McCarthy | Large-scale, high-resolution wetland mapping with satellites for improved blue carbon estimates | Monday |
| N. McTigue | Revisiting the blueprints for blue carbon: is salt marsh sediment organic carbon a source of emissions after wetland degradation? | Monday |
| J. Moriarty | The role of particulate resuspension on organic matter, nutrient, and oxygen dynamics in Chesapeake Bay: Preliminary results from a coupled model | Tuesday |
| T. Mozdzer | Nutrient enrichment alters blue carbon pools and processes | Tuesday |
| N. Nidziko | Allometric scaling of coastal ecosystem metabolism | Tuesday |
| K. Schreiner | The organic geochemistry of Blue Carbon stores in a changing environment: a contemporary and paleo perspective | Tuesday |
| A. Thorhaug | Gulf of Mexico carbon stock and flux from rivers through estuaries | Tuesday |
| C. Tseng | Spatiotemporal dynamics of sea surface pCO ₂ and its flux in the East China Sea during warm periods | Tuesday |
| Plenary Session 2. Ecological and biogeochemical impacts of natural climate perturbation | | |
| Z. Johnson | Ribosomal RNA and DNA of diverse high light Prochlorococcus reveal variable activity and abundance relationships across taxonomic ranks | Monday |

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| I. Marinov | Characterizing ENSO events in satellite derived ocean phytoplankton biomass | Monday |
| A. Mendis Jayasinghe | Chlorophyll and Black carbon: Light absorption on Arctic Sea ice | Monday |
| C. Mouw | Environmental controls of phytoplankton community size structure | Monday |
| O. Ogunro | Multi-model analysis of marine biogeochemical feedbacks from regional and global ocean | Tuesday |
| E. Osborne | Climatic modulation of anthropogenic ocean acidification in the California Current ecosystem | Tuesday |
| C. Pilskalns | Decadal climate change impacts on carbon cycling in the Gulf of Maine | Tuesday |
| K. Stamieszkin | Seasons in the ocean: developing phenological indicators for climate assessment | Tuesday |
| Plenary Session 3. Mesoscale and submesoscale physical-biological-biogeochemical interactions | | |
| Z. Abdala | Diatom community composition shifts in the nitrogen-limited Mid-Atlantic Bight | Monday |
| C. Arnosti | Biogeochemical effects of ringwater influence on the Mid-Atlantic Bight shelf: differences in microbially-driven carbon cycling along a shelf transect | Monday |
| M. Dever | Interactions between submesoscale dynamics and sinking particles: a pre-EXPORT study | Tuesday |
| S. Einarsson | Diatom community composition through upwelling over thin and broad continental shelves | Monday |
| Z. Erickson | A seasonal cycle of surface instabilities and physically-driven export from gliders in the northeast Atlantic Ocean | Monday |
| Z. Feng | Modeling the sympagic-pelagic-benthic coupling processes in the St. Lawrence Island Polynya region, northern Bering Sea | Monday |
| M. Freilich | What components of vertical velocity contribute to nutrient transport? | Monday |
| M. Jiang | Interactions between mesoscale eddies and the bottom bathymetry in the southern Florida Straits and the biogeochemical impacts | Monday |
| A. Johnson | Submesoscale fronts in Northwest Atlantic and implications for particulate organic carbon export | Monday |
| X. Liu | Modeling the impact of submesoscale physical dynamics on phytoplankton community composition and carbon cycling in the North Pacific Subtropical Gyre | Tuesday |
| J. Palter | Biogeochemical fronts: gateways to exchange | Tuesday |
| R. Pedrosa Pàmies | Particle cycling in the Sargasso Sea water column revealed by lipid biomarkers in suspended particles: Seasonality and physical | Tuesday |

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| L. Resplandy | Submesoscale export of particulate and dissolved organic carbon | Tuesday |
| N. Van Oostende | From the oligotrophic ocean gyres to coastal upwelling systems: Simulating the dynamic range of chlorophyll concentration | Tuesday |
| A. Visser | Trait composition of the plankton community across environmental gradients. | Tuesday |
| Q. Xu | Influences of water masses on the distribution of phytoplankton communities derived by pigment analysis in the mid-shelf East China Sea in summer | Tuesday |
| S. Zhang | Impacts of mesoscale eddies on the vertical nitrate flux in the Gulf Stream region | Tuesday |
| Plenary Session 4. Stoichiometry and higher trophic levels | | |
| T. Anderson | Will invertebrates require increasingly carbon-rich food in a warming world? | Monday |
| K. Matsumoto | Estimating the influences of flexible POC: POP stoichiometry on future carbon export | Tuesday |
| T. Tanioka | Theoretical study on the effects of flexible grazing preference of zooplankton on regulating the C:N:P ratio of marine ecosystem | Tuesday |
| B. Twining | Phytoplankton community metallomes vary across environmental gradients in the global ocean | |
| Plenary Session 5. Our autonomous future | | |
| P. Bresnahan | Engineering a smartfin for surf-zone oceanography | Monday |
| B. Collister | Remote sensing of optical characteristics and particle distributions of the upper ocean using shipboard lidar | Tuesday |
| W. Gardner | Deep-water benthic nepheloid layers: A global synthesis | Monday |
| D. Kaufman | Combining bio-optical glider observations and biogeochemical modeling to examine potential Ross Sea phytoplankton changes in the 21st century | Tuesday |
| E. Mawji | Determination of carbonate chemistry parameters using 'Lab-on-Chip' sensors: developments and future direction | Monday |
| Y. Takeshita | Towards sustained autonomous measurements of coral reef metabolism and health | Tuesday |
| N. Walcutt | Assessment of holographic microscopy for quantifying marine particles | Monday |
| N. Williams | Observing the Southern Ocean carbon cycle using biogeochemical profiling floats equipped with pH | Tuesday |
| General OCB Interest | | |
| I. Astor | Distribution and variability of total alkalinity in the Cariaco Basin, Venezuela. | Monday |

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| S. Baer | The role of autotrophic biomass in marine particulate organic carbon | Tuesday |
| M. Behrenfeld (Menden-Deuer presenting) | The North Atlantic Aerosols and Marine Ecosystems Study (NAAMES) | Tuesday |
| I. Cetinic | Sea to space particle investigation | Tuesday |
| C. Durkin | Linking surface phytoplankton with sinking particles | Monday |
| A. Fassbender | Non-uniform ocean acidification and attenuation of the ocean carbon sink | Monday |
| L. Filliger | Comparison of bacteria recruited by axenic Southern Ocean diatoms under Fe stress | Monday |
| K. Gomes | Subcellular proteomics for determining Fe-limited remodeling of plastids in the centric diatom <i>Thalassiosira pseudonana</i> | Monday |
| B. Grunert | Optically estimating CDOM composition across diverse spectral ranges | Monday |
| V. Koul | Atlantic inflow to the North Sea modulated by the Subpolar Gyre: A potential oceanic influence on North Sea marine ecosystems? | Monday |
| Z. Li | A mechanistic model of an upper bound on oceanic carbon export as a function of mixed layer depth and temperature | Monday |
| K. Lowry | Under-ice phytoplankton bloom dynamics controlled by spring convective mixing in refreezing leads of open water | Tuesday |
| C. Mitchell | Estimating particulate inorganic carbon concentrations of the global ocean from ocean color measurements using a reflectance difference approach. | Tuesday |
| E. Montes | Validation of dynamic satellite biogeographic seascapes: scaling ocean biodiversity observations in the Florida Keys National Marine Sanctuary | Monday |
| A. Neeley | Investigation of the relationships between phytoplankton community structure and environmental parameters in the Chukchi Sea | Tuesday |
| H. Palevsky | How choice of depth horizon influences estimated spatial patterns and global magnitude of ocean carbon export flux | Tuesday |
| C. Proctor | The SeaBASS archive and validation system: Data and tools for researchers and ocean color satellite match-ups | Tuesday |
| J. Reimer | A synthesis of 20 years of $f\text{CO}_2$ data in the US South Atlantic Bight: Can we see a clear trend through noisy data? | Monday |
| S. Rivero-Calle | Deciphering phytoplankton community dynamics from HPLC pigment variability | Tuesday |
| J. Sharp | Direct measurements of seawater carbonate ion concentrations in the Gulf of Mexico: Implications for spatial mapping of CaCO_3 saturation states | Tuesday |
| H. Sosik | NES-LTER: A new Long Term Ecological Research site on the | Monday |

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| | Northeast US Shelf | |
| R. Stanley | The Changing Arctic Ocean: Interannual variability and potential shifts in gross primary production and net community production in the Beaufort Gyre | Monday |
| R. Stanley | Investigating gas exchange processes using noble gases in the SUSTAIN wind-wave tank | Monday |
| A. Sterling | Assessing bacteria as potential enhancers of iron availability for Southern Ocean diatoms | Tuesday |
| Y. Teng | Impacts of anthropogenic nutrients on primary production and benthic hypoxia in the East China Sea – A numerical study | Tuesday |
| J. Tesdal | Freshening and stratification in the subpolar North Atlantic: Possible effects on chlorophyll- <i>a</i> concentrations and NPP | Tuesday |
| J. Wiggert | Impact of circulation, transport, and exchange variability in the Northern Gulf of Mexico on shelf ecosystem dynamics | Tuesday |