

Personalized Itinerary Planner

2010 Ocean Sciences Meeting
February 20 - 26, 2010

To make changes to your itinerary or view the full meeting schedule, visit <http://agu-os10.abstractcentral.com:80>



Saturday, February 20, 2010

You have nothing scheduled for this day

Sunday, February 21, 2010

You have nothing scheduled for this day

Monday, February 22, 2010

Time	Session Info
8:00 AM-10:00 AM, PB255, BO11C. Upper Ocean Nutrient Limitation: Processes, Patterns, and Potential for Change I	
8:00-8:15 AM	BO11C-01. The Potential for Colimitation of Marine Primary Productivity: Three Biochemical Definitions, Field Observations, Application of Proteomic Diagnostics, and Comments on the Future (<i>Invited</i>) <u>M.A. Saito</u> ; <u>E.M. Bertrand</u> ; V. Bulygin; A.D. Cox; T.J. Goepfert; D. Moran
8:00 AM-10:00 AM, D139, CO11A. Gases as Tracers of Oceanic Processes I	
8:15-8:30 AM	CO11A-02. The Dissolved Gas Toolbox for Quantifying Rates of Biological Production (<i>Invited</i>) <u>R.H. Stanley</u> ; R. Ferrari
8:00 AM-10:00 AM, E145, IT11D. Biogeochemistry of the North Atlantic in a Global Context: Bringing Together Recent Advances in Modeling and Observations I	
8:30-8:45 AM	IT11D-03. Dynamics and Mechanics of Particulate Organic Matter Cycling over the Northwest Atlantic Margin <u>T.I. Eglinton</u> ; J. Hwang; S.J. Manganini; R. Francois; L. Giosan; J. Blusztajn; A.M. Macdonald; J.M. Toole
1:00 PM-3:00 PM, PB255, BO13B. Influence of Microbial Interactions on the Ecology and Biogeochemistry of Aquatic Systems I	
1:30-1:45 PM	BO13B-03. Quorum sensing by particle-associated bacteria affects attenuation of particulate organic carbon flux in the oceans <u>L. Hmelo</u> ; B. Van Mooy; T.J. Mincer
3:30 PM-5:30 PM, PB252, IT14A. Interactions Between Biogeochemistry and Ecosystems in Low-P Oligotrophic Areas II	
4:45-5:00 PM	IT14A-06. Microbial production of phosphonate in marine systems <u>S. Dyhrman</u> ; E. Verdeny; E. Orchard; S. Haley; P. Pellechia
3:30 PM-5:30 PM, E145, IT14C. Sea Ice Extremes, Upper Ocean Warming, and Ecosystem Response in the Pacific Arctic in Relation to the Pan-Arctic System I	

4:45-5:00 PM	IT14C-06. Year-to-year variability of ocean biology across Barrow Canyon and the western Beaufort shelf: 2005-2009 <u>C.J. Ashjian</u> ; R.G. Campbell; S.R. Okkonen; B.F. Sherr; E. Sherr
5:00-5:15 PM	IT14C-07. Upwelling in the Alaskan Beaufort Sea: Forcing, Dynamics, Cross-stream fluxes, and Biological Implications (<i>Invited</i>) <u>R.S. Pickart</u> ; M.A. Spall; D.J. Torres; K. Moore; J.T. Mathis; S.E. Moore
3:30 PM-5:30 PM, E147, IT14E. Synergistic Interactions Between Stressors to Coral Reefs II	
3:45-4:00 PM	IT14E-02. Lipid Biomarkers In Cultured Coral Fragments As Indicators Of Thermal And Disease Stress <u>K.A. Hughen</u> ; J.M. Kneeland; K. Furby; J. Cervino; E. Bartels
4:00-4:15 PM	IT14E-03. Lipid biomarker signatures of disease and environmental stress in Red Sea corals <u>K. Furby</u> ; K.A. Hughen; J.M. Kneeland; J. Cervino; B. Hauff
5:00-5:15 PM	IT14E-07. Natural and Anthropogenic Stress Impacts on Extension Rates in Red Sea Corals <u>W.N. Bernstein</u> ; K.A. Hughen; J. Ossolinski
3:30 PM-5:30 PM, E146, PO14A. Coastal Oceanography I	
4:30-4:45 PM	PO14A-05. Asymmetry in the wind-driven current response in Hudson Shelf Valley <u>S.J. Lentz</u> ; B. Butman; C.K. Harris
5:15-5:30 PM	PO14A-08. Shelfbreak Processes and Cold Dome Structure in the East China Sea northeast of Taiwan <u>G. Gawarkiewicz</u> ; J. Sen; Y. Yang; P.F. Lermusiaux; F. Bahr
3:30 PM-5:30 PM, PB251, PO14C. Probabilistic Models in Ocean Sciences: Applications in Data Assimilation, Coupled Ecosystem Models, and Air-Sea Interaction Studies I	
5:00-5:15 PM	PO14C-07. Conditional Simulation of Plankton Ecosystem Fields: A Tool for Testing Models <u>P. Wallhead</u> ; K.W. Smith; D.J. McGillicuddy; A. Solow
5:30 PM-7:00 PM, Poster Hall E, BO15A. Biological Consequences of Ocean Acidification I Posters	
5:30 PM-7:00 PM	BO15A-16. Coral Gender and Ocean Acidification: are female corals more sensitive? <u>M. Holcomb</u> ; A.L. Cohen; D.C. McCorkle
5:30 PM-7:00 PM, Poster Hall E, BO15B. Biological Oceanography General Contributions IV Posters	
5:30 PM-7:00 PM	BO15B-19. Genetic connectivity of the cold-water coral-dependent deep-sea polychaete <i>Gorgoniapolynoe caeciliae</i> among North Atlantic seamounts <u>E.K. Bors</u> ; T.M. Shank

5:30-5:30 PM	BO15B-31. Modeling prey selection of larval haddock on copepods with species-specific behavior <u>C.M. Petrik</u> ; T. Kristiansen; R. Lough; C. Davis
5:30 PM-7:00 PM, Poster Hall E, BO15E. Influence of Microbial Interactions on the Ecology and Biogeochemistry of Aquatic Systems III Posters	
5:30 PM-7:00 PM	BO15E-12. Microbial Cycling of Marine Dissolved Organic Matter: Linking marine microbial production and consumption <u>J.W. Becker</u> ; D. Repeta; M. Rappe; M. Nieto Cid; J.B. Waterbury; E.F. DeLong
5:30-5:30 PM	BO15E-13. Cultivation-based analyses of methylotrophic bacteria isolated from sinking marine aggregates in Clayoquot Sound, British Columbia. <u>M. Miller</u> ; R. Kantor; L. Hmelo; B. Van Mooy; T.J. Mincer
5:30 PM-7:00 PM, Poster Hall E, BO15F. Influence of Microbial Interactions on the Ecology and Biogeochemistry of Aquatic Systems IV Posters	
5:30 PM-7:00 PM	BO15F-06. Clade-Specific Field Distributions of the Nitrogen-Fixing, Marine Cyanobacterium <i>Trichodesmium</i> Using QPCR <u>A.M. Hynes</u> ; T.J. Mincer; S.C. Doney; J.B. Waterbury
5:30 PM-7:00 PM, Poster Hall E, CO15B. Gases as Tracers of Oceanic Processes II Posters	
5:30 PM-7:00 PM	CO15B-09. Nitrous oxide concentrations and isotopic signatures trace mechanisms of its production in a South Atlantic transect <u>C.H. Frame</u> ; K.L. Casciotti
5:30 PM-7:00 PM, Poster Hall E, IT15B. Interactions Between Biogeochemistry and Ecosystems in Low-P Oligotrophic Areas III Posters	
5:30 PM-7:00 PM	IT15B-06. Dissolved Organic Phosphorus: Isolation and Chemical Characterization <u>T.B. Meador</u> ; D. Repeta; C. Johnson; S. Dyhrman
5:30-5:30 PM	IT15B-07. Phospholipid production and turnover in a nutrient addition microcosm experiment in the Mediterranean <u>K. Popendorf</u> ; T. Tanaka; F. Van Wambeke; M. Pujo-Pay; C. Courties; T. Moutin; B. Van Mooy
5:30-5:30 PM	IT15B-13. Phosphorus Cycling in the Red Sea: New Insights on Phosphorus Limitation in Oligotrophic Environments. <u>L. Yum</u> ; S. Bashir Ali; A. Heithoff; S. Dyhrman; B. Van Mooy
5:30 PM-7:00 PM, Poster Hall E, IT15E. Oceans and Human Health: Reducing Risks Through Prediction Posters	
5:30 PM-7:00 PM	Abstract Withdrawn
5:30 PM-7:00 PM, Poster Hall E, IT15H. Sea Ice, Atmosphere-Ocean Interactions, and Ecosystem Dynamics in Arctic and Subarctic Systems II Posters	

5:30 PM-7:00 PM	IT15H-11. Processes controlling the biogeographic boundary of <i>Calanus</i> copepods in the Arctic Ocean <u>R. Ji</u> ; C.J. Ashjian; R.C. Beardsley; R.G. Campbell; C. Chen; G.W. Cowles; C.S. Davis; G. Gao
5:30 PM-7:00 PM, Poster Hall E, IT15K. Synergistic Interactions Between Stressors to Coral Reefs III Posters	
5:30 PM-7:00 PM	IT15K-09. Lipid Biomarkers of Thermal and Disease Stress in Coral Zooxanthellae <u>J.M. Kneeland</u> ; K.A. Huguen; J. Cervino; B. Van Mooy; H. Fredricks
5:30-5:30 PM	IT15K-16. Coral growth declines as temperatures rise in the central Red Sea <u>N.E. Cantin</u> ; A.L. Cohen; K.B. Karnauskas; A. Tarrant; G.P. Lohmann; C.P. Saenger; D.C. McCorkle
5:30 PM-7:00 PM, Poster Hall E, MT15A. Frontiers in Ocean Data Management and Interoperability: The Future is Now III Posters	
5:30 PM-7:00 PM	MT15A-15. Extending autonomy for exploration, discovery, and characterization of deep sea extreme environments <u>R. Camilli</u> ; D. Yoerger; M. Jakuba; O. Pizarro; S. Williams; D.L. Valentine
5:30 PM-7:00 PM, Poster Hall E, PO15C. Dynamics and Impact of the Meridional Overturning Circulation IV Posters	
5:30 PM-7:00 PM	PO15C-06. Spreading Pathways of Labrador Sea Water From the Subpolar North Atlantic: A Lagrangian Data – Model Comparison <u>A.S. Bower</u> ; M. Lozier; S.F. Gary; C.W. Boening
5:30-5:30 PM	PO15C-07. Variability in the Labrador Sea Water within the Deep Western Boundary Current Southeast of Cape Cod <u>B. Pena-Molino</u> ; T.M. Joyce; J.M. Toole
5:30 PM-7:00 PM, Poster Hall E, PO15G. Theory, Modeling, and Observations of Westward Propagating Rossby Waves and Eddies III Posters	
5:30 PM-7:00 PM	PO15G-06. An Irminger Ring Mooring in the Labrador Sea, Preliminary Results <u>H.H. Furey</u> ; A.S. Bower; T. McKee

Tuesday, February 23, 2010

Time	Session Info
8:00 AM-10:00 AM, D135, BO21C. Unveiling the Secrets of Phytoplankton Life Cycles I	
8:15-8:30 AM	BO21C-02. Diatoms Favor Their Younger Daughters <u>S.R. Laney</u> ; H.M. Sosik; R.J. Olson

9:30-9:45 AM	BO21C-07. Reproductive barriers in <i>Alexandrium tamarens</i> species and their implications for global biogeography and toxic bloom mitigation <u>M. Brosnahan</u> ; D.M. Kulis; A. Solow; D. Erdner; L. Percy; J. Lewis; D.M. Anderson
8:00 AM-10:00 AM, D139, CO21A. Getting the Right Number I	
9:15-9:30 AM	CO21A-06. Intercalibration study of the Fe isotope composition of seawater: Results from Geotraces <u>O. Rouxel</u> ; S. John; A. RADIC; F. Lacan; J.F. Adkins; E.A. Boyle
9:30-9:45 AM	CO21A-07. An Intercomparison of Collection, Handling and Analysis Methods for Mercury Species in Open Ocean Waters <u>C.H. Lamborg</u> ; G.A. Gill; C.R. Hammerschmidt; R.P. Mason
8:00 AM-10:00 AM, E141, ED21A. Education and Outreach General Contributions II	
9:45-10:00 AM	ED21A-08. The Ocean Carbon and Biogeochemistry Program (OCB): Lessons in Outreach and Community Building <u>H.M. Benway</u> ; S.C. Doney
8:00 AM-10:00 AM, E143, GO21A. Sediment Processes: Transport and Deposition in Lakes, Estuaries, Coastal Bays, and Continental Shelves I	
8:15-8:30 AM	GO21A-02. Observations of mechanisms of dissipation of wave energy over a muddy seabed (<i>Invited</i>) <u>P. Traykovski</u>
8:00 AM-10:00 AM, PB256, PO21B. Nearshore Processes V	
8:30-8:45 AM	PO21B-03. Height of Sediment Resuspension on a Seasonally Stratified Inner Shelf <u>R. Horwitz</u> ; S.J. Lentz
1:00 PM-3:00 PM, PB255, BO23B. Exploring the Ecological Variability of the Biological Pump I	
1:15-1:30 PM	BO23B-02. Sinking Velocity Spectra from Simultaneous Measurements of Particle Flux and Concentration <u>A.M. McDonnell</u> ; K. Buesseler
1:00 PM-3:00 PM, D139, CO23A. Getting the Right Number II	
1:15-1:30 PM	CO23A-02. Total and Particulate Thorium-234 Results From GEOTRACES Intercalibration Cruises <u>K. Maiti</u> ; K. Buesseler; C.R. Benitez-Nelson; J.K. Cochran; M. Dai; F. Dehairs; P. Masque; L.A. Miller; B. Moran; P.J. Morris; J. Miquel; F. Peine; F. Planchon ; M. Rutgers van der Loeff; P.H. Santschi; R. Turnewitsch; J.T. Waples
1:00 PM-3:00 PM, PB253, MT23A. Ocean Technology and Infrastructure Needs for the Next 20 Years I	

2:00-2:15 PM	MT23A-05. Integrated optical /acoustic communications system for deep sea data transfer and vehicle control <u>N. Farr</u> ; M. Tivey; J. Ware; C.T. Pontbriand; D.E. Frye
1:00 PM-3:00 PM, E145, PA23A. From Bench Top to Core Top: Calibration of Novel Oceanic Proxies Through Experiment, Theory, and Study of Modern Analog Environments II	
2:00-2:15 PM	PA23A-05. Combined stable isotopic and cellular ultrastructural studies of individual foraminifera to assess hydrocarbon-seep foraminiferal disequilibrium with pore water DIC <u>J.M. Bernhard</u> ; J.B. Martin; J.H. Curtis; A.E. Rathburn
2:15-2:30 PM	PA23A-06. Extracting Ocean Temperatures from Deep Sea Coral Skeletons Using a New Rayleigh-Based, Multi-Element Thermometer <u>G.A. Gaetani</u> ; A.L. Cohen
1:00 PM-3:00 PM, PB256, PO23C. Physical Oceanography of Archipelagos I	
2:15-2:30 PM	PO23C-05. Observations of Galápagos Archipelago-EUC Interaction: The Current State-of-our Knowledge <u>K.B. Karnauskas</u> ; R. Murtugudde; A.J. Busalacchi
2:45-3:00 PM	PO23C-07. Chaotic Advection in an Archipelago <u>I.I. Rypina</u> ; L.J. Pratt; J.D. Pullen; J. Levin; A.L. Gordon
3:30 PM-5:30 PM, PB255, BO24B. Exploring the Ecological Variability of the Biological Pump II	
4:45-5:00 PM	BO24B-06. A Global Compilation of POC, CaCO₃, and Opal Concentration Profiles in the Mesopelagic <u>P.J. Lam</u>
5:30 PM-7:00 PM, Poster Hall E, BO25G. Exploring the Ecological Variability of the Biological Pump III Posters	
5:30 PM-7:00 PM	BO25G-12. Shedding light on the ocean's biological pump and twilight zone processes <u>K. Buesseler</u> ; P.W. Boyd
5:30 PM-7:00 PM, Poster Hall E, CO25B. Getting the Right Number III Posters	
5:30 PM-7:00 PM	CO25B-04. Analytical considerations in the determination of iron, cobalt, and manganese on a full-depth zonal section of the Southern Atlantic Ocean <u>A.E. Noble</u> ; M.A. Saito
5:30-5:30 PM	CO25B-05. The mini-mulvfs holder: A new 142mm filter holder design for particulate sampling from in-situ pumps <u>D. Ohnemus</u> ; P.J. Lam; J.K. Bishop
5:30 PM-7:00 PM, Poster Hall E, ED25A. Research Experiences of Undergraduates in Aquatic Sciences I Posters	
5:30 PM-7:00 PM	ED25A-03. Seasonal Variability in Ciliates of the New England Shelf <u>E.F. Brownlee</u> ; H.M. Sosik; R.J. Olson

5:30 PM-7:00 PM, Poster Hall E, PA25A. Ancient DNA in Marine and Lake Sediment Records Posters	
5:30 PM-7:00 PM	PA25A-02. 7000 years of virus-host molecular dynamics in the Black Sea <u>M.J. Coolen</u>
5:30 PM-7:00 PM, Poster Hall E, PO25F. Ocean-Atmosphere Interaction From Mesoscale to Basin Scale: High-Resolution Satellite Observations, Data Analysis, and Numerical Modeling IV Posters	
5:30 PM-7:00 PM	PO25F-05. The Global Oceanic Freshwater Cycle: A Best-Estimate Quantification <u>J.J. Schanze</u> ; L. Yu; R.W. Schmitt

Wednesday, February 24, 2010

Time	Session Info
8:00 AM-10:00 AM, D137, BO31A. Comparative Proteogenomics II	
9:30-9:45 AM	BO31A-07. Metal Stress in Cyanobacteria: Physiological and Proteomic Culture Studies of Atlantic <i>Synechococcus</i> <u>A.D. Cox</u> ; V. Bulygin; M.A. Saito
8:00 AM-10:00 AM, D139, CO31A. Interpreting Variability in Oceanic Biological Community Composition and Biogeochemical Fluxes I	
8:30-8:45 AM	CO31A-02. Investigating the decadal increase of primary production at Station ALOHA, Hawaii using data assimilative model <u>Y. Luo</u> ; H. Ducklow; S.C. Doney; M.A. Friedrichs
8:00 AM-10:00 AM, E147, IT31C. Plastic Debris in the Ocean: Quantifying the Problem and Investigating Its Impacts I	
8:15-8:30 AM	IT31C-02. A 22-year Record of Plastic Marine Debris in the Atlantic Ocean <u>K.L. Law</u> ; S. Moret-Ferguson; C.M. Reddy; E. Peacock; N.A. Maximenko
8:00 AM-10:00 AM, PB251, PO31B. Dynamics of Upper Ocean Boundary and Mixed Layers I	
9:23-9:38 AM	PO31B-06. The role of Langmuir turbulence during a rapid mixed-layer deepening event <u>T. Kukulka</u> ; A.J. Plueddemann; J.H. Trowbridge; P.P. Sullivan
1:00 PM-3:00 PM, D139, CO33A. Interpreting Variability in Oceanic Biological Community Composition and Biogeochemical Fluxes II	
1:45-2:00 PM	CO33A-04. Phospholipid Turnover Rates Suggest Rapid Cycling of Heterotrophic Bacterial Carbon in the Upper Ocean <u>B. Van Mooy</u> ; K. Longnecker; K. Popenдорf

1:00 PM-3:00 PM, PB252, IT33B. Oceans and Human Health: Predicting Harmful Algal Blooms I	
2:30-2:45 PM	IT33B-07. Predicting Harmful Algal Blooms in the Gulf of Maine: From Event Hindcasting to Seasonal Forecasting (<i>Invited</i>) <u>R. He</u> ; D. McGillicuddy; D.M. Anderson; B. Keafer; Y. Li
1:00 PM-3:00 PM, PB256, PO33D. Patchy Mixing and the Geography of the Ocean's Energy Cascade II	
2:45-3:00 PM	PO33D-08. Toward Regional Characterizations of the Oceanic Internal Wavefield (<i>Invited</i>) <u>K.L. Polzin</u> ; Y.V. Lvov
3:30 PM-5:30 PM, D135, BO34A. Ecology and Diversity of Aquatic Protists: Advances and Methodologies III	
5:00-5:15 PM	BO34A-06. Genetic diversity and heat stress phenotypes in Symbiodinium <u>M.D. Johnson</u> ; J. Lee; P.G. Falkowski
3:30 PM-5:30 PM, E141, ED34A. Authentic Research Experiences for Teacher and Student Benefits I	
5:00-5:15 PM	ED34A-07. Teachers At Sea and Ten Years of the Stratus Ocean Reference Station Cruises <u>P. White</u> ; R.A. Weller; D. Stanitski; M. O'Leary
3:30 PM-5:30 PM, E143, GO34A. Tidal Flats: Hydrodynamic and Sedimentary Processes of Mesotidal Environments I	
3:30-3:45 PM	GO34A-01. The dynamics of channels on Skagit tidal flats <u>R. Geyer</u> ; D.K. Ralston; P. Traykovski
3:45-4:00 PM	GO34A-02. Estuarine dynamics on the Skagit tidal flats: modeling and observations <u>D.K. Ralston</u> ; W.R. Geyer; P. Traykovski
3:30 PM-5:30 PM, E146, PO34C. Freshwater Transports on Shelves and Slopes and in Straits at High and Middle Latitudes I	
4:30-4:45 PM	PO34C-05. Two Configurations of the Western Arctic Shelfbreak Jet Advecting Pacific Summer Water in the Alaskan Beaufort Sea <u>W. von Appen</u> ; R.S. Pickart
4:45-5:00 PM	PO34C-06. Freshwater export from the Labrador Current to the North Atlantic Current at the Tail of the Grand Banks of Newfoundland <u>P.S. Fratantoni</u> ; M.S. McCartney
5:00-5:15 PM	PO34C-07. Variability of the Fresh Water Export from Hudson Bay: What are the controls? <u>F. Straneo</u> ; D.A. Sutherland; P. St-Laurent; S.J. Dery
5:30 PM-7:00 PM, Poster Hall E, GO35C. Tidal Flats: Hydrodynamic and Sedimentary Processes of Mesotidal Environments II Posters	

5:30 PM-7:00 PM	GO35C-04. Stratification on a Mesotidal Flat <u>R.R. Yopak</u> ; B. Raubenheimer; S. Elgar; V. Pavel
5:30-5:30 PM	GO35C-05. Vertical Shear and Stratification on a Tidal Flat <u>S.D. Kilgallin</u> ; B. Raubenheimer; S. Elgar
5:30-5:30 PM	GO35C-06. Bottom Drag Coefficients on a Tidal Flat <u>S.F. Zippel</u> ; B. Raubenheimer; S. Elgar
5:30-5:30 PM	GO35C-07. Wind-driven Flows on a Mesotidal Flat <u>D.L. Giffen</u> ; B. Raubenheimer; S. Elgar; J.M. Thomson
5:30 PM-7:00 PM, Poster Hall E, IT35H. Plastic Debris in the Ocean: Quantifying the Problem and Investigating Its Impacts II Posters	
5:30 PM-7:00 PM	IT35H-06. Establishing a robust characterization of beach plastics <u>C.M. Reddy</u> ; E. Peacock; S. Moret-Ferguson; E. Murphy; K.L. Law
5:30 PM-7:00 PM, Poster Hall E, IT35I. Predicting the Effects of Climate Change on Marine Ecosystems I Posters	
5:30 PM-7:00 PM	IT35I-07. Biogeographical boundary shifts in northern Atlantic Ocean copepod species: predicting responses to climate change <u>C. Stegert</u> ; R. Ji; C. Davis
5:30 PM-7:00 PM, Poster Hall E, IT35K. The Indian Ocean: Recent Advances in Physical, Biogeochemical, and Ecosystem Dynamics III Posters	
5:30 PM-7:00 PM	IT35K-15. The Response of the Red Sea to Localized Wind Stress Curl Forcing <u>R. Chen</u> ; L.J. Pratt; K.R. Helfrich; H. Jiang
5:30 PM-7:00 PM, Poster Hall E, MT35A. Ocean Technology and Infrastructure Needs for the Next 20 Years II Posters	
5:30 PM-7:00 PM	Abstract Withdrawn
5:30 PM-7:00 PM, Poster Hall E, PO35C. Anisotropic Mesoscale Coherent Structures in the Ocean II Posters	
5:30 PM-7:00 PM	PO35C-12. Ageostrophic Feature of Coherent Mesoscale Vortices in the Subtropical North Atlantic <u>J. Park</u> ; Y. Kwon; D.M. Fratantoni
5:30 PM-7:00 PM, Poster Hall E, PO35G. Freshwater Transports on Shelves and Slopes and in Straits at High and Middle Latitudes II Posters	
5:30 PM-7:00 PM	PO35G-11. Coastal hydrography and volume transport offshore of Barrow, Alaska in summer A.J. Plueddemann; <u>E. Shroyer</u>
5:30 PM-7:00 PM, Poster Hall E, PO35L. Physical Oceanography General Contributions II Posters	

5:30 PM-7:00 PM	PO35L-05. Environmentally-Adaptive Deployment of Lagrangian Instrumentation using a Submerged Autonomous Launch Platform <u>D.M. Fratantoni</u>
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Thursday, February 25, 2010

Time	Session Info
8:00 AM-10:00 AM, E141, ED41A. Success and Challenges in Aquatic Observing Systems Education and Outreach I	
9:30-9:45 AM	ED41A-07. Sailing to the Shelfbreak: Education and Science from the MIT/WHOI Joint Program Orientation Cruises <u>G. Gawarkiewicz</u>
8:00 AM-10:00 AM, E143, GO41A. Tidal Flats: Hydrodynamic and Sedimentary Processes of Mesotidal Environments III	
9:15-9:30 AM	GO41A-06. Conductivity Inversions on Tidal Flats <u>V. Pavel</u> ; B. Raubenheimer; S. Elgar
9:30-9:45 AM	GO41A-07. Tidal Asymmetry in the Skagit River Delta <u>N.J. Nidziko</u> ; D.K. Ralston; W.R. Geyer; B. Raubenheimer; V. Pavel; S. Elgar
8:00 AM-10:00 AM, PB251, PO41A. Air-Sea Coupling in Western Boundary Current Regions I	
9:33-9:45 AM	PO41A-08. Atmosphere-Ocean Variability Associated with Kuroshio and Oyashio Extension Fluctuations <u>Y. Kwon</u> ; C. Frankignoul; N. Sennéchaël; M.A. Alexander
8:00 AM-10:00 AM, D136, PO41C. Measuring and Understanding Turbulence in the Presence of Surface Waves I	
8:00-8:30 AM	PO41C-01. Measuring and understanding turbulence in the presence of surface waves (<i>Invited</i>) <u>J.H. Trowbridge</u> ; E. Terray
8:45-9:00 AM	PO41C-03. A comparative study of recent ADCP-based stress estimation methods for wavy environments: When and why do they fail. <u>A. Kirincich</u> ; J. Rosman
1:00 PM-3:00 PM, D137, BO43B. Recent Technological Advances for Studying the Ecology of Top Marine Predators I	
2:00-2:15 PM	BO43B-05. Resolving Basking Shark Migratory Connectivity in the Western Atlantic: Incorporating Satellite Archival Tagging and Ecogeochemistry Techniques <u>L. Hamady</u> ; L.J. Natanson; L. Houghton; G. Skomal; S.R. Thorrold

1:00 PM-3:00 PM, PB255, BO43C. Understanding Diatom Interactions With Their Environment: From Single Molecules to Global Ecosystems I	
2:30-2:45 PM	BO43C-07. Proteomics of Vitamin B₁₂ and Iron Stress and Co-stress in Marine Diatoms <u>E.M. Bertrand</u> ; V. Bulygin; M.A. Saito
1:00 PM-3:00 PM, PB252, IT43A. Biological-Physical Interactions at Submesoscales I	
1:45-2:00 PM	IT43A-04. Whales and waves: zooplankton accumulation, fish and humpback whale foraging response, and the shoaling of internal waves at Stellwagen Bank <u>J. Pineda</u> ; J. da Silva; V. Starczak; M. Thompson; D. Cholewiak; D. Wiley
1:00 PM-3:00 PM, PB254, IT43B. From Field Observations to Modeling Connectivity in the Nearshore and Back Again: Circulation, Dispersal, and Settlement I	
2:00-2:15 PM	IT43B-05. Euphausiid larval distributions on the Western Antarctic Peninsula Southern Ocean GLOBEC study site: offshore or onshore origin? <u>P.H. Wiebe</u> ; C.J. Ashjian; A. Piñones; G.L. Lawson; N.J. Copley
1:00 PM-3:00 PM, E145, IT43D. Predicting the Effects of Climate Change on Marine Ecosystems II	
1:45-2:00 PM	IT43D-04. Modeling ocean acidification's potential to impact commercial marine harvests at regional scales <u>S.R. Cooley</u> ; K. Fennel; S.C. Doney
1:00 PM-3:00 PM, PB253, PO43C. Observational, Theoretical, and Modeling Studies of Large-Amplitude Internal Waves II	
1:00-1:15 PM	PO43C-01. Effects of Rotation on Internal Solitary Waves (<i>Invited</i>) <u>K.R. Helfrich</u> ; R. Grimshaw; E.R. Johnson
2:30-2:45 PM	PO43C-07. High-amplitude internal waves and tides northeast of Taiwan <u>T.F. Duda</u> ; G. Gawarkiewicz; J.F. Lynch; A. Newhall; Y. Lin; P.F. Lermusiaux; J. Sen; Y. Yang
3:30 PM-5:30 PM, PB255, BO44C. Understanding Diatom Interactions With Their Environment: From Single Molecules to Global Ecosystems II	
4:15-4:30 PM	BO44C-04. Diatom community structure: Seasonal and interannual variability on the New England Shelf <u>H.M. Sosik</u> ; R.J. Olson
3:30 PM-5:30 PM, PB254, IT44B. From Field Observations to Modeling Connectivity in the Nearshore and Back Again: Circulation, Dispersal, and Settlement II	
5:00-5:15 PM	IT44B-07. Empirical approaches to measuring larval dispersal in reef fish populations: new methods, old limitations <u>S.R. Thorrold</u> ; G.R. Almany; M. Berumen; G.P. Jones; S. Planes
3:30 PM-5:30 PM, PB251, PO44E. Theory and Modeling of the Equatorial Ocean II	

4:05-4:25 PM	PO44E-03. Barotropic Rossby waves seen radiating from tropical instability waves in the Pacific (<i>Invited</i>) <u>T. Farrar</u>
5:30 PM-7:00 PM, Poster Hall E, BO45A. Biological Consequences of Ocean Acidification II Posters	
5:30 PM-7:00 PM	BO45A-10. The Impact of Elevated CO₂ on Initial Calcification by the Bay Scallop (<i>Argopectin irradians</i>) <u>D.C. McCorkle</u> ; A. Cohen; E. Sogin; M. Pinard; K. Rose
5:30-5:30 PM	BO45A-14. Impact of future elevated atmospheric pCO₂ and ocean acidification on benthic foraminifera <u>A. McIntyre-Wressnig</u> ; J.M. Bernhard; D.C. McCorkle; P. Hallock Muller
5:30 PM-7:00 PM, Poster Hall E, BO45B. Comparative Analysis of Marine Ecosystems I Posters	
5:30 PM-7:00 PM	BO45B-01. A New Tool for Inferring Trophic Interactions and Fish Movement Using Stable Carbon Isotope Analysis of Otolith Amino Acids <u>K. McMahon</u> ; M.L. Fogel; S.R. Thorrold
5:30 PM-7:00 PM, Poster Hall E, BO45F. Plankton Grazing Rates in the Sea: So Many Methods, So Much Learned, So Much to Do I Posters	
5:30 PM-7:00 PM	BO45F-08. Detection of in-situ copepod grazing on low-concentration populations of <i>Alexandrium fundyense</i> using PCR identification of ingested prey. <u>S. Haley</u> ; A. Juhl; B. Keafer; S. Dyhrman; D.M. Anderson
5:30 PM-7:00 PM, Poster Hall E, BO45G. Recent Technological Advances for Studying the Ecology of Top Marine Predators III Posters	
5:30 PM-7:00 PM	BO45G-10. Using a new short-term dermal attachment tag to study bowhead whale foraging ecology in the western Beaufort Sea <u>M. Baumgartner</u> ; T. Hammar
5:30 PM-7:00 PM, Poster Hall E, CO45C. Radiocarbon Insights Into the Global Carbon Cycle I Posters	
5:30 PM-7:00 PM	CO45C-03. Radiocarbon in the Canada Basin: Carbon Transfer Processes in the Changing Arctic <u>A.P. McNichol</u> ; L. Xu; D.R. Griffith; T.I. Eglinton; R. Macdonald; F.A. McLaughlin
5:30-5:30 PM	CO45C-06. The Radiocarbon Content of Decomposing Sedimentary Organic Matter <u>W.R. Martin</u> ; D.C. McCorkle
5:30 PM-7:00 PM, Poster Hall E, IT45F. From Field Observations to Modeling Connectivity in the Nearshore and Back Again: Circulation, Dispersal, and Settlement III Posters	
5:30 PM-7:00 PM	IT45F-12. Connectivity and Self-recruitment of Coral Reef Fishes in a Marine Reserve Network in Kimbe Bay, Papua New Guinea <u>M. Berumen</u> ; G.R. Almany; S. Planes; G.P. Jones; S.R. Thorrold

5:30 PM-7:00 PM, Poster Hall E, IT45G. Hydrogeology, Geochemistry, and Microbial Ecology at Hydrothermal Sites and Seafloor Observatories I Posters

5:30 PM-7:00 PM	IT45G-06. Larval dispersion along an axially symmetric mid-ocean ridge <u>D.J. McGillicuddy</u> ; J.W. Lavelle; A.M. Thurnherr; V.K. Kosnyrev; L.S. Mullineaux
5:30-5:30 PM	IT45G-07. Larvae from Afar Colonize Deep-Sea Hydrothermal Vents after a Catastrophic Eruption <u>L.S. Mullineaux</u> ; D.K. Adams; S.W. Mills; S.E. Beaulieu
5:30-5:30 PM	IT45G-11. The 2005-06 East Pacific Rise Eruption: High-T vent fluid temperature records correlated to spatial distribution of vents and axial structure provide clues about fast-spreading ridge fluid circulation pathways <u>D.J. Fornari</u> ; F. Prado; K. Von Damm; J. McDermott; J.G. Bryce; T.M. Shank; S. Soule; M.D. Lilley
5:30-5:30 PM	IT45G-12. Early-stage hydrothermal particle formation along the Eastern Lau Spreading Center <u>J.A. Breier</u> ; K. Anantharaman; J.B. Sylvan; S.N. White; K.J. Edwards; G. Dick; B.M. Toner
5:30-5:30 PM	IT45G-14. Combined stable isotope analysis and molecular identification of gut contents reveal different sources of local primary production at hydrothermal vents <u>B. Govenar</u> ; T.M. Shank

5:30 PM-7:00 PM, Poster Hall E, IT45I. Predicting Climate Change and Its Impacts on the Pacific Sector of Antarctica III Posters

5:30 PM-7:00 PM	IT45I-05. Iron addition effects on growth of different Antarctic phytoplankton species. <u>D. Moran</u> ; M.A. Saito; A.E. Allen
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5:30 PM-7:00 PM, Poster Hall E, PO45B. Air-Sea Coupling in Western Boundary Current Regions II Posters

5:30 PM-7:00 PM	PO45B-01. The Evolution of North Atlantic Eighteen Degree Water and The Role of Lateral Oceanic Fluxes in the Eighteen Degree Water Formation Region <u>X.J. Davis</u> ; F. Straneo
5:30-5:30 PM	PO45B-03. Decadal Variability of North Pacific Subtropical Mode Water in a Climatologically-Forced Model <u>E. Douglass</u> ; S.R. Jayne; F.O. Bryan; S. Peacock; M.E. Maltrud
5:30-5:30 PM	PO45B-04. The Kuroshio Extension - Recirculation and Subtropical Mode Water <u>S.R. Jayne</u> ; L. Rainville; M.F. Cronin
5:30-5:30 PM	PO45B-09. Local Versus Remote Forcing of Interannual Kuroshio Variability <u>M. Andres</u> ; Y. Kwon; J. Yang

5:30 PM-7:00 PM, Poster Hall E, PO45C. Arctic and Subarctic Ocean Variability: Observations, Models, Perspectives I Posters

5:30 PM-7:00 PM	PO45C-03. Interannual variations of Arctic sea ice, wind and oceanic upwelling <u>J. Yang</u>
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5:30 PM-7:00 PM, Poster Hall E, PO45D. Arctic and Subarctic Ocean Variability: Observations, Models, Perspectives II Posters	
5:30 PM-7:00 PM	PO45D-04. The Irminger Gyre: Circulation, convection, and interannual variability <u>K. Vaage</u> ; R.S. Pickart; A. Sarafanov; Ø. Knutsen; H. Mercier; P. Lherminier; M. Bersch; H.M. Van Aken; J. Meincke; D. Quadfasel
5:30-5:30 PM	PO45D-05. Seasonal and Interannual Variability of the West Greenland Current System in 1992-2008 <u>T.A. Rykova</u> ; F. Straneo; A.S. Bower
5:30 PM-7:00 PM, Poster Hall E, PO45I. Mixing Processes and Buoyant Flows: Estuaries III Posters	
5:30 PM-7:00 PM	PO45I-07. Frictional hydraulics generate along-channel variability of tidal pumping in a partially mixed estuary <u>P.A. Engel</u> ; W.R. Geyer; M.E. Scully

Friday, February 26, 2010

Time	Session Info
8:00 AM-10:00 AM, D137, CO51A. Radiocarbon Insights Into the Global Carbon Cycle II	
8:00-8:15 AM	CO51A-01. The Queen of Isotopes (<i>Invited</i>) <u>W.J. Jenkins</u> ; A.P. McNichol; K.F. Von Reden; M. Roberts
8:15-8:30 AM	CO51A-02. Prediction and biogeochemical significance of the radiocarbon age of organic carbon in marine surface sediments <u>D.R. Griffith</u> ; W.R. Martin; T.I. Eglington
8:00 AM-10:00 AM, E143, GO51A. Geological Oceanography General Contributions II	
9:45-10:00 AM	GO51A-07. Theoretical equilibrium responses of rocky coasts to changes in the rate of sea level rise <u>A.D. Ashton</u> ; M.J. Walkden; M.E. Dickson
8:00 AM-10:00 AM, D136, PO51A. Arctic and Subarctic Ocean Variability: Observations, Models, Perspectives III	
8:45-9:00 AM	PO51A-03. Decadal variability of the Arctic Ocean based on reanalysis results <u>A.Y. Proshutinsky</u> ; G. Pantelev; D. Nechaev; J. Zhang
10:30 AM-11:30 AM, PB251, IT52A. Walter Munk Lecture: Acoustical Oceanography and Shallow Water Acoustics	
10:30-11:30 AM	IT52A-01. Acoustical Oceanography and Shallow Water Acoustics (<i>Invited</i>) <u>J.F. Lynch</u>

1:00 PM-3:00 PM, PB253, BO53A. Biological Consequences of Ocean Acidification IV	
1:00-1:15 PM	BO53A-01. Why Corals Care about Ocean Acidification: the Role of Nutrition (<i>Invited</i>) <u>A.L. Cohen</u> ; D.C. McCorkle; S.J. de Putron; M. Holcomb; K. Rose
1:00 PM-3:00 PM, D139, CO53A. Carbon Cycling in the Coastal Oceans II	
1:30-1:45 PM	CO53A-03. Distributions of the CO₂ System along the US Atlantic and Gulf of Mexico Coast <u>Z.A. Wang</u> ; R.H. Byrne; W. Cai; R.H. Wanninkhof
1:00 PM-3:00 PM, E145, IT53B. Hydrogeology, Geochemistry, and Microbial Ecology at Hydrothermal Sites and Seafloor Observatories II	
1:30-1:45 PM	Abstract Withdrawn
1:00 PM-3:00 PM, D136, PO53A. Arctic and Subarctic Ocean Variability: Observations, Models, Perspectives IV	
1:45-2:00 PM	PO53A-04. Did changes in the subpolar North Atlantic trigger the acceleration of glaciers in Greenland? G.S. Hamilton; <u>F. Straneo</u> ; D.A. Sutherland; L.A. Stearns
3:30 PM-5:30 PM, D136, PO54A. Arctic and Subarctic Ocean Variability: Observations, Models, Perspectives V	
4:40-4:55 PM	PO54A-05. Some remarks concerning the observed variability in the DWBC transport south of Cape Cod on Line W <u>T.M. Joyce</u> ; J.M. Toole; R.G. Curry; B. Pena-Molino
3:30 PM-5:30 PM, PB253, PO54B. Lagrangian Predictability and Data Assimilation II	
4:30-4:45 PM	PO54B-05. Lagrangian Coherent Structures: When are they Helpful? (<i>Invited</i>) <u>L.J. Pratt</u> ; I.I. Rypina
3:30 PM-5:30 PM, E143, PO54C. Mixing Processes and Buoyant Flows: Plumes and the Coastal Ocean IV	
4:30-4:45 PM	PO54C-05. The influence of ambient alongshelf currents on exchange of salt near the mouth of the Merrimack River estuary <u>S. Chen</u> ; J.A. Lerczak; W.R. Geyer; D.K. Ralston
3:30 PM-5:30 PM, D135, PO54E. Physical Processes on Coral Reefs and Their Role in Reef Dynamics III	
3:45-4:00 PM	PO54E-02. Some like it not-so-hot: A heat-budget analysis on reef platforms in the Red Sea. (<i>Invited</i>) <u>K.A. Davis</u> ; S.J. Lentz; J. Pineda; T. Farrar; J.H. Churchill; V. Starczak