

SMAST Posters and Presentations at Ocean Sciences 2010

(Presenters are underlined; SMAST personnel in bold. Click on code number to see abstract or full poster.)

[PO25E-05](#) *POSTER* OSSEs with Ensemble Kalman Filters in Nantucket Sound, Massachusetts: **P Xue**, **C Chen**, R C Beardsley, R Limeburner

[PO45L-07](#) *POSTER* High-frequency Internal Waves and Their Impacts on Plankton Dynamics in Massachusetts Bay: **Z Lai**, **C Chen**, R C Beardsley, **G W Cowles**

[BO13B-08](#) The Retention and Regeneration of Nitrogen Along High Energy Rocky Shores: C A Pfister, M A Altabet, D M Post

[CO15B-08](#) *POSTER* Toward geochemical budgeting of dissolved gases in the hypoxic western Long Island Sound: **L A Bristow**, **M A Altabet**, J O'Donnell

[BO24C-04](#) Gas Ratio and Isotopic Studies of the Peru Denitrification Zone: **M A Altabet**, **E Montes**, E Ryabenko, D Wallace

[BO35C-06](#) *POSTER* New Technique for Rapid, High Precision Dissolved Gas Ratio Analysis as Applied to the Peru Denitrification Zone: **T Gulman**, **M A Altabet**

[BO35C-07](#) *POSTER* Nitrogen isotope studies of the Northeast Atlantic and Eastern Pacific Oxygen Minimum Zones: E Ryabenko, **M A Altabet**, D Wallace

[IT25G-06](#) *POSTER* Climate-Related Ecosystem Variability and Its Potential Effects on Management of Atlantic Cod and Haddock on Georges Bank: **J J Bisagni**, **D Georgianna**, D G Mountain

[IT35I-02](#) *POSTER* Multi-decadal basin-scale simulations for the North Atlantic-Arctic Oceans: **A H Chaudhuri**, **A Gangopadhyay**, E N Curchitser, J Levin, D B Haidvogel, **J J Bisagni**

[PO15A-02](#) *POSTER* Eddy-induced upwelling off Cape São Tomé (22 S, Brazil): A numerical modeling study: **L Calado**, I C Silveira, **A Gangopadhyay**

[IT25G-01](#) *POSTER* On the Nature of Temporal Variability of the Gulf Stream Path from the West to the East of 60-65°W: **A Gangopadhyay**, A H Taylor, **A H Chaudhuri**

[IT25L-01](#) *POSTER* An Operational Ocean Prediction System for the Western North Atlantic: HOPS Implementation for MARCOOS: **A Campos Kersten Schmidt**, **A Gangopadhyay**

[PO45J-01](#) *POSTER* Turbulent Field Heterogeneity in a Near-Field River Plume: **D G MacDonald**, **L Goodman**, R D Hetland, **F Chen**

[PO45J-03](#) *POSTER* Comparison between observational and numerical drifters in the Merrimack River mid-field plume: **G Kakoulaki**, **D G MacDonald**, R D Hetland, **F Chen**

PO53B E143 Friday 1300h Mixing Processes and Buoyant Flows: Plumes and the Coastal Ocean III Presiding: **D G MacDonald**, UMass Dartmouth; R D Hetland, Texas A&M University; A R Horner-Devine, University of Washington

[PO53B-02](#) A Mechanism for TKE Enhancement via Lateral Spreading in a Near Field River Plume: **F Chen**, **D G MacDonald**

PO54C E143 Friday 1530h Mixing Processes and Buoyant Flows: Plumes and the Coastal Ocean IV Presiding: **D G MacDonald**, UMass Dartmouth; R D Hetland, Texas A&M University; A R Horner-Devine, University of Washington

[PO33D-02](#) Submesoscale lateral dispersion following spatially correlated wave-breaking events: J Jacobs, M P Lelong, **M A Sundermeyer**

[PO35J-04](#) *POSTER* Mixing by Breaking Internal Wave Groups: **D A Birch**, **M A Sundermeyer**

[IT44A-04](#) Signatures of Sub-Mesoscale Mixing and Stirring of Passive Tracers: **M A Sundermeyer**, M P Lelong

[IT45A-23](#) *POSTER* Estimating Small-Scale Lateral Diffusivity from Tracer Streaks in a Mesoscale Eddy Field: **D Schwartz**, **M A Sundermeyer**

[PO45U-03](#) *POSTER* Characteristics of adjustment-driven submesoscale turbulence: M P Lelong, **M A Sundermeyer**

[PO45V-11](#) *POSTER* Vortical Mode Stirring in a Time-Varying Strain Field: **A E Brunner-Suzuki**, **M A Sundermeyer**, M P Lelong

[IT15H-11](#) *POSTER* Processes controlling the biogeographic boundary of Calanus copepods in the Arctic Ocean: R Ji, C J Ashjian, R C Beardsley, R G Campbell, **C Chen**, **G W Cowles**, C S Davis, **G Gao**

[IT25H-01](#) *POSTER* Northeast Coastal Ocean Forecast System (NECOFS) (Invited): R C Beardsley, **C Chen**

[IT33A-01](#) Harmful Algal Blooms and their Relevance to Offshore and Onshore Water Transport (Invited): **C Chen**, R C Beardsley, P Ding

[GO35D-03](#) *POSTER* Tidal Flush and Circulation in the Estuarine-Shelf of Plum Island Sound and Merrimack River: **L Zhao**, **C Chen**, J J Vallino, C Hopkinson

[IT35E-01](#) *POSTER* Impacts of surface forcing on interannual variability in fall phytoplankton bloom: A process-oriented modeling study of the Gulf of Maine: S Hu, **C Chen**, R Ji, D W Townsend, R C Beardsley, **R Tian**, C S Davis

[IT35E-03](#) *POSTER* A Modeling Study of the Chub mackerel (Scomber Japonicus) Recruitment in the East China Sea: Y Li, **C Chen**, X Chen, J Ge, **R Tian**, R Ji, L Xu

[PO35G-02](#) *POSTER* Observational and Modeling Studies of the Changjiang Salinity Plume in the Inner East China Sea Shelf: P Ding, J Ge, **C Chen**

[GO44A-05](#) A Fully Coupled Wave-Current-Sediment FVCOM Model System: An Application to the Changjiang Estuary (Invited): J Ge, **C Chen**, P Ding, L Wu, **J Qi**, R C Beardsley

[IT45F-01](#) *POSTER* Interannual variability of sea scallop larval dispersion and settlement over Georges Bank: A model simulation experiment: **R Tian**, **C Chen**, **K D Stokesbury**, **B J Rothschild**

[PO45C-04](#) *POSTER* An Unstructured-grid Arctic Ocean Model System (AO-FVCOM): A Study of Ice-Ocean Interaction: **G Gao**, **C Chen**, R C Beardsley

[PO45L-07](#) *POSTER* High-frequency Internal Waves and Their Impacts on Plankton Dynamics in Massachusetts Bay: **Z Lai**, **C Chen**, R C Beardsley, **G W Cowles**

[PO43A-07](#) Application of Open Loop H-Adaptation to an Unstructured Grid Model of a Mesotidal Estuary: **G W Cowles**, **Y Jung**

[PO31C-04](#) Turbulence in the Wake of an Internal Solitary Wave Train (Invited): **L Goodman**, **Z Wang**

[PO31C-05](#) Comparison of two cases of thin layers evolution in strong turbulence from a small AUV in Monterey Bay, CA: **Z Wang**, **L Goodman**

[PO15A-08](#) *POSTER* Secondary Circulation Associated with Strong Tidal Flow in the Western Gulf of Maine: **G M Marques**, **W S Brown**

[PO15A-09](#) *POSTER* Summer/Fall Circulation Variability in the Western Gulf of Maine's Wilkinson Basin: **W S Brown**, **Z Yu**

[IT21C-04](#) Results from the Mid Atlantic High Frequency Radar Network: H J Roarty, E Handel, E Rivera, T Garner, L P Atkinson, **C Jakubiak**, **W S Brown**, J T Kohut, S M Glenn

[PO21B-08](#) Observations of storm response and sediment transport on the Middle Atlantic Bight continental shelf: S M Glenn, H J Roarty, J T Kohut, **W S Brown**, L P Atkinson, W C Boicourt, T Miles, J Kerfoot, O Schofield

[PO35E-05](#) *POSTER* Winter Mixed Layer Formation in the Gulf of Maine: **F A Fernandes**, **W S Brown**

[PO35E-03](#) *POSTER* Diurnal and Weekly Transition Layer Variations at the Arabian Sea Mooring: **S Majumder**, **A Tandon**, D L Rudnick

IT43A PB252 Thursday 1300h Biological-Physical Interactions at Submesoscales I (joint with BO, CO) *Presiding:* **A Tandon**, UMass Dartmouth; F Couceiro, University of Portsmouth

[IT44A-03](#) Observations of Microscale Turbulent Dissipation and Submesoscale Physical and Biological Structures in the Kuroshio Front: **T Nagai**, **A Tandon**, H Yamazaki, M Doubell, S Gallager, A D York, S Clayton, **E M Holmes**

[IT44A-06](#) Lateral Mixing by Submesoscale Processes: **A Tandon**, A Mahadevan

[IT45A-04](#) *POSTER* Coupling of Mixed Layer Eddies with a Baroclinic Interior : **E M Holmes**, **A Tandon**, A Mahadevan

[PO51D-03](#) Anatomy of a surface filament: A Mahadevan, **A Tandon**