

MABPOM 2008

Monday September 22 - 5th Floor Clark Laboratory, Quissett Campus

8:00-8:40 Registration and Poster Setup; coffee, juices and pastries will be available

8:40-8:45 Welcome to MABPOM (Jim Churchill)

Session 1: Observing Systems (Chair: Jim Churchill)

8:45-9:00 Operational Forecast Systems for the Coastal and Estuarine Environment in NOAA's National Ocean Service.
Frank Aikman III (NOAA/NOS), R. Patchen, and M. Vincent

9:00-9:15 The Northeast Benthic-Pelagic Observatory to Support Fisheries and Ecosystem Management.
Scott Gallager (WHOI), R. Taylor, N. Vine, A. York, P. Auster, L. Mayer, and L. Prashad

9:15-9:30 Harbor Observing and Prediction System. Lessons Learned.
Nickitas Georgas (Stevens Inst. Of Tech.), A. Blumberg, W. Li, J. Ko, S. Bhushan

9:30-9:45 Estimation of Current Velocities Using CODAR in the Western Gulf of Maine.
Shawna King (SMAST)

9:45-10:00 The NSF Ocean Observatories Initiative: Overview and Update
Albert Plueddemann (WHOI)

Session 2: Physical/Biological Interaction (Chair: Jim Churchill)

9:45-10:00 Modelling Exploration of Sea Scallop Population Connection in the Middle Atlantic Bight and over Georges Bank.
Rucheng C. Tian (SMAST), C.S. Chen, K. Stokesbury, B. Rosthchild, G. Cowles, Q.C. Xu, S. Hu, B. Harris, and M. Marino

10:00-10:15 On the Relationship of Turbulence to Thin Phytoplankton Layers.
Zhankun Wang (SMAST), and L. Goodman

10:15-10:30 Coffee Break

Session 3: MAB Proper (Part I) (Chair: Glen Gawarkiewicz)

- 10:30-10:45 The mean Along-isobath Heat and Salt Balances over the Middle Atlantic Bight Continental Shelf.
Steve Lentz (WHOI)
- 10:45-11:00 Chlorophyll and SST Fronts of the Mid-Atlantic Bight from Satellite Imagery.
Igor Belkin (URI), J. O'Reilly, K. Hyde, and T. Ducas
- 11:00-11:15 Mean Thermohaline and Velocity Structure of the Mid-Atlantic Bight Mid-Shelf Front.
Lauren Decker (URI)
- 11:15-11:30 Investigation of Northeast North American Coastal Circulation using a Nested Regional Hindcast Model.
Rouying He (NCSU), and K. Chen
- 11:30-11:45 High Resolution, Coupled bio-physical Modeling Experiments for the MAB Shelf-Break.
Ke Chen (NCSU), and R. He
- 11:45-12:00 Winter Shelfbreak Frontal Structure and Fresh Water Transport North of Cape Hatteras; and a Tribute to Rich Garvine."
Glen Gawarkiewicz (WHOI)

Lunch and Poster Session 1: 12:00-1:30 (See List of Posters on Page 6)

Session 4: Estuarine and River Plume Studies (Chair: David Mountain)

- 1:30-1:45 Anoxia in the Thames River: Observations in Norwich Harbor.
Melissa D. Hacker-Gibson (U. Conn), and M. Whitney
- 1:45-2:00 A Residual Tidal Eddy in the Potomac River, MD/VA.
Richard P. Mied (Naval Res. Lab.), W. Chen, and H. Wang
- 2:00-2:15 Lateral Circulation and Sediment Transport Driven by Axial Winds in an Idealized, Partially Mixed Estuary.
Shih-Nan Chen (WHOI/USGS), L. Sanford, and D. Ralston
- 2:15-2:30 Tidal Observations in Waquoit Bay with Low Cost SeaHorse Tilt Current Meters
Vitalii Sheremet (URI/WHOI)

- 2:30-2:45 A Synoptic Description of Surface Currents and Winds at the Delaware Bay Mouth.
P.A. Muscarella (U. Del.), N.P. Barton, B.L. Lipphardt Jr., D.E. Veron, K.C. Wong, and A.D. Kirwan Jr.
- 2:45-3:00 Salt flux into Coastal River Plumes: Dye Studies in the Delaware and Hudson River Outflow.
Robert W. Houghton (LDGO), R. Chant, A. Rice, and C. Tilburg
- 3:00-3:30 Coffee Break
- Session 4: continued (Chair Jim Manning):**
- 3:30-3:45 Different Modes of Down-Shelf Freshwater Flows off the New Jersey Coast.
Joseph Jurisa (IMCS Rutgers), and R. Chant
- 3:45-4:00 Structure and Evolution of the Near-Field Merrimack River Plume.
Daniel MacDonald (U. Mass. Dartmouth), R. Hetland, L. Goodman, and F. Chen
- 4:00-4:15 Observations and Modeling of Near-Field Plume Spreading in the Merrimack River.
Fei Chen (U. Mass. Dartmouth), D. MacDonald, and R. Hetland
- Session 5: Long Island Sound and the Inner Shelf – (Part I)**
- 4:15-4:30 Observations of Bottom Boundary-Layer Dynamics at the Edge of a Sorted Grain-Size Feature on the Inner Shelf.
Christopher R. Sherwood (USGS), and N. Ganju
- 4:30-4:45 Understanding Tides and Overtides in Long Island Sound.
Diane Bennett (U. Conn.), J. O'Donnell, and A. Houk
- 4:45-5:00 Tidal Currents and Friction over Large Marine Sand Waves in Eastern Long Island Sound.
Ralph Jorle (U. Conn.), and M. Whitney
- 5:00-5:15 **MABPOM Business:** next year's meeting, additions to steering committee, etc.
- 5:30-6:30 Poster Session 2 (See List of Posters on Page 6), Drinks and Appetizers**
- 6:30-8:00 Dinner**

Tuesday September 23 - USGS Conference Room

8:00-8:40 Morning Chat Session, coffee, juices and pastries will be available

8:40-8:45 Welcome to MABPOM Day 2 (Brad Butman)

Session 6: Long Island Sound – Part II (Chair ?)

8:45-9:00 Subtidal Variability of Dissolved Oxygen in Western Long Island Sound.
Peter Gay (U. Conn.), and J. O'Donnell

9:00-9:15 Subtidal Currents and Hypoxia in Long Island Sound.
James O'Donnell (U. Conn.)

9:15-9:30 Vertical Mixing Rates and Hypoxia in Western Long Island Sound.
Grant McCardell (U. Conn.), and J. O'Donnell

Session 7: MAB Proper – Part II

9:30-9:45 Comparison of Observed and Model-Computed Low Frequency Circulation and Hydrography on the New England Shelf.
Geoff Cowles (SMAST), S. J. Lentz, C. Chen, Q. Xu, and R. C. Beardsley

9:45-10:00 Seasonal Climatology of Wind-Driven Circulation on the New Jersey Shelf.
Donglai Gong (Rutgers U.), J. Kohut, and S. Glenn

10:00-10:15 Seasonal Variability in the Near Surface Circulation on the Central Mid-Atlantic Bight Shelf.
Brian Dzwonkowski (U. Del.), J. Kohut, B. Lipphardt, Jr., and X-H. Yan

10:15-10:30 Coffee Break

10:30-10:45 Cross-shelf Velocity and Property Variability at the Mid-Shelf Front in the Mid-Atlantic Bight.
David Ullman (URI), M. Aleszczyk, D. Codiga, J. Kohut, S. Moran, S. Stachelhaus

10:45-11:00 Response of the Gulf Stream Warm-Core Rings and Related Shelf Water Entrainment to the NAO.
Ayan H. Chaudhuri (U. Mass. Dartmouth), A. Gangopadhyay, and J. Bisagni

11:00-11:15 Shelf Water Salinity Variability, Eastern Newfoundland to Cape Hatteras, 1950-2003.
James J. Bisagni (U. Mass. Dartmouth), and D. Mountain

11:15-11:30 Coffee Break

Session 8: Gulf of Maine and Georges Bank

- 11:30-11:45 Wind Driven Currents on Georges Bank: Model and Observations.
Ken Brink (WHOI), and R. Beardsley
- 11:45-12:00 Labrador Slope Water in the Gulf of Maine Region, 1964-2008.
David Mountain (NMFS), and M. Taylor
- 12:00-12:15 Construction of a 3 Arc Second Bathymetry Grid for the Gulf of Maine.
Richard P. Signell (USGS), and E. Twomey
- 12:15-12:30 Internal Tides in Wilkinson Basin.
Wendell Brown (U. Mass. Dartmouth), and Z. Yu

Posters (Sessions will be on Monday 12:00–1:30 PM and 5:30-6:30 PM)

Long-Term Oceanographic Observations in Massachusetts Bay, 1989-2006.

Bradford Butman (USGS), P. Dalyander, and M. Bothner

Modeling of Sorted Grain Size Features near the Martha's Vineyard Coastal Observatory.

Neil K. Ganju (USGS), C. R. Sherwood, and R. P. Signell

Building a Low-Cost Observing System with Help from Lobstermen.

James Manning (USGS), and V. Sheremet

Spring-Time Water Properties in Western Great South Channel.

Gustavo Marques (SMAST), W. Brown, and C. Jakubiak

The East Greenland Current System South of Denmark Strait

Robert S. Pickart (WHOI), and J. A. Brearley

Long-Term Variability in Surf Clam Recruitment in Relation to Climate and Local Physical Factors.

Maddie Schroth-Miller (Rutgers U.), P. Ramey, and R. Chant

Using the COAWST Modeling System to Predict Coastal Storm Impacts.

John Warner (USGS), B. Armstrong, R. He, and J. Zambon

Barotropic Wind-Driven Circulation in the Long Island Sound.

Michael M. Whitney (U. Conn.)

Using a Towed Optical Habitat Mapping System along the Northeast Continental Shelf

Amber D. York (WHOI), S. Gallager, R. Taylor, N. Vine, J. Howland, S. Lerner, L. Prasad, S. Swaminarayan, Dvora Hart, G. Rosenkranz, L. Mayer, and Y. Rzhanov

Inter-Annual Dynamics in the Seasonal Phytoplankton Dynamics in the Mid-Atlantic Bight

Yi Xu (Rutgers U.), R. Chant, D. Gong, R. Castelao, S. Glenn, and O. Schofield

Assimilating HF Radar Surface Currents into the New York Harbor Observing and Prediction System.

Ganesh Gopalakrishnan (Stevens Institute)