

# NEERS SPRING 2011 MEETING May 5 – 7, 2011 Danfords Hotel and Marina, Port Jefferson, NY

Hosted By School of Marine and Atmospheric Sciences of Stony Brook University

> **Co-Sponsors** New York Sea Grant

Patrons Woods Hole Sea Grant YSI Inc.

#### **MEETING PROGRAM**

### All events at the Danfords Hotel and Marina unless noted otherwise All oral and poster sessions are in the Diplomatic Ballroom

# Thursday, May 5<sup>th</sup>

12:00 – 1:30 pm	Meeting registration (G-Library)
1:30 – 5:30 pm	Long Island Sound Symposium
5:30 – 6:30 pm	Meeting Registration (G-Library)
5:45 – 8:00 pm	Welcoming Social (Brookhaven Ballroom)

# Friday, May 6<sup>th</sup>

7:00 – 8:00 am	Meeting registration (G-Library)
8:15 – 10:10 am	Oral presentations: Ecology of Phytoplankton
10:30 – 11:50 am	Oral presentations: Conservation Planning
11:50 am – 1:10 pm	Lunch (Bayles Room and Wilse Room)
11:50 am – 1:10 pm	Executive Committee Meeting
1:00 – 5:00 pm	SoMAS R/V available for tours (Harbor Front Park)
1:15 – 2:35 pm	Oral presentations: Ecosystem and Landscape Interactions
2:35 – 4:00 pm	Poster presentations
4:00 – 5:00 pm	Oral presentations: Ecology and Management of Fish(eries)
5:00 – 6:00 pm	NEERS Business Meeting
6:00 – 9:30 pm	Social and NEERS Awards Banquet (Brookhaven Ballroom)
9:30 pm - ??	Music and dancing at Port Jazz (201 Main Street)

## Saturday, May 7<sup>th</sup>

8:15 – 10:10 am	Oral presentations: Estuarine Habitats
10:30 am – 12:15 pm	Oral presentations: Estuarine Variability
12:30 pm	Field trip to Riverhead Foundation (meet at Danfords front desk)
12:30 pm	Field trip to Wertheim Natl. Wildlife Ref. (meet at Danfords front desk)











# Thursday, May 5<sup>th</sup>

#### SPECIAL SYMPOSIUM: Long Island Sound Science and Management: A Quarter Century Synthesis

Chair: Jim Latimer \* Presenter

- **1:30** Welcome and Introduction Jim Latimer EPA Office of Research and Development, Narragansett, RI
- 1:45 Weigold, Marilyn E.
   Department of Economics, History and Political Science, Pace Univ., Pleasantville, NY LONG ISLAND SOUND: ITS PEOPLE, PLACES AND ENVIRONMENT
- 2:10 Lewis, Ralph S. Long Island Sound Resource Center, UCONN-Avery Point, Groton, CT GEOLOGIC INVESTIGATIONS IN THE LIS BASIN: AN OVERVIEW
- **2:35** O'Donnell, J.<sup>1</sup>, Robert Wilson\*<sup>2</sup>, K. Lwiza<sup>2</sup> and M. Whitney<sup>1</sup> <sup>1</sup>University of Connecticut, Groton, CT; <sup>2</sup>Stonybrook University, Stonybrook, NY PHYSICAL OCEANOGRAPHY OF LONG ISLAND SOUND
- **3:00** Cuomo\*,Carmela<sup>1</sup>, J. K. Cochran<sup>2</sup>, R. A. Aller<sup>2</sup>,and J. A. Aller<sup>2</sup> <sup>1</sup>Dept. of Biology & Environmental Sci., Univ. of New Haven, New Haven, CT <sup>2</sup>School of Marine & Atmospheric Sciences, Stonybrook University, Stony Brook, NY LONG ISLAND SOUND GEOCHEMISTRY: PAST, PRESENT AND FUTURE

## 3:25 BREAK

- 3:50 Varekamp\*, Johan (Joop) C.<sup>1</sup>, A. E. McElroy<sup>2</sup>, J. R. Mullaney<sup>3</sup>, B. J. Brownawel<sup>2</sup>, V. T Breslin<sup>4</sup>, M. A. Altabet<sup>5</sup>, and M. R. Buchholtz ten Brink<sup>6</sup>
   <sup>1</sup>EES, Wesleyan University, Middletown CT; <sup>2</sup>SoMAS, SBU, Stony Brook, NY
   <sup>3</sup>USGS, Hydrology, Hartford CT; <sup>4</sup>ENVS, SCU, New Haven CT
   <sup>5</sup>SMAST, University of Massachusetts, Dartmouth MA; <sup>6</sup>EPA, Narrangansett, RI CONTAMINANTS IN SEDIMENT FROM LONG ISLAND SOUND
- **4:15** Lopez, Glenn R. School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY BIOLOGY AND ECOLOGY OF LONG ISLAND SOUND
- **4:40** Tedesco<sup>\*</sup>, Mark A.<sup>1</sup>, C. Garza<sup>2</sup>, J. Latimer<sup>3</sup>, R. L. Swanson<sup>4</sup>, and C. Yarish<sup>5</sup> <sup>1</sup>EPA Long Island Sound Office, Stamford, CT; <sup>2</sup>California State Univ. Monterey Bay <sup>3</sup>EPA Office of Research and Development, Narragansett, RI <sup>4</sup>University of Connecticut, Stamford, CT; <sup>5</sup>Stony Brook University, Stony Brook, NY SCIENCE AND ADAPTIVE MANAGEMENT FOR LONG ISLAND SOUND
- 5:05 Discussion
- 5:45 8:00 NEERS WELCOMING SOCIAL Brookhaven Ballroom
- **8:00** Dinner on your own in Port Jefferson

# Friday, May 6<sup>th</sup>

8:15 Welcome and Introductory Remarks – Steve Hale, NEERS President

#### **Ecology of Phytoplankton**

Chair: Steve Hale \* Presenter; (**K**) Ketchum Prize candidate for best graduate student presentation

- 8:30 Gobler\*, Christopher J. and T. K. Hattenrath-Leman School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY PHASE SHIFTS AMONG PRIMARY PRODUCERS WITHIN LONG ISLAND SOUND: WILL ANTHROPOGENIC STRESSORS CONTINUE TO EXPAND THE NICHE OF PSP- AND DSP-PRODUCING DINOFLAGELLATE BLOOMS?
- 8:50 (K) George\*, Jennifer, C. J. Gobler, and D. J. Lonsdale
   School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY
   IMPACTS OF CLIMATE CHANGE ON THE SPRING BLOOM IN LONG ISLAND
   SOUND
- 9:10 (K) Koch\*, Florian and C. J. Gobler School of Marine and Atmospheric Sciences, Stony Brook University, Southampton, NY IMPORTANCE OF B-VITAMINS AS NUTRIENTS CONTROLLING PHYTOPLANKTON COMMUNITIES IN COASTAL ECOSYSTEMS
- **9:30** (K) Bell\*, Sheryl L.<sup>1</sup>, E. A. Walker<sup>1,2</sup>, C. J. Gobler<sup>1,2</sup>, and J. L. Collier<sup>1</sup> <sup>1</sup>School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY <sup>2</sup>School of Marine and Atmospheric Sciences, Stony Brook Univ., Southampton, NY INTERACTIONS BETWEEN PLANKTON COMMUNITY STRUCTURE AND ENVIRONMENTAL FACTORS IN BROWN TIDE IMPACTED LONG ISLAND EMBAYMENTS
- **9:50** (K) Liu\*, Yuan and J. L. Collier School of Marine and Atmospheric Sciences, Stony Brook University, NY HOW DOES THE PLANKTONIC MICROBIAL COMMUNITY STRUCTURE DIFFER IN GREAT SOUTH BAY WITH AND WITHOUT AUREOCOCCUS ANOPHAGEFFERENS (BROWN TIDE)?

#### **10:10 BREAK**

#### **Conservation Planning**

Chair: Steve Hale

\* Presenter; (K) Ketchum Prize candidate for best graduate student presentation

 10:30 (K) Torio\*, Dante D. and G. L. Chmura Department of Geography and Global Environmental and Climate Change Centre, McGill University, Montreal, QC USING FUZZY LOGIC TO MAP THE THREAT OF COASTAL SQUEEZE TO MARSHES AT WELLS RESERVE AND PORTLAND, MAINE

- 10:50 (K) Kras\*, Lauren A. and G. E. Moore
   Department of Biological Sciences, University of New Hampshire, Durham, NH
   THE STATUS OF FIVE STATE-LISTED TIDAL PLANT SPECIES IN NEW
   HAMPSHIRE WITH EMPHASIS ON POTENTIAL IMPACTS OF SEA LEVEL RISE
- 11:10 (K) Landi\*, Alicia<sup>1</sup>, J. Vokoun<sup>1</sup>, P. Auster<sup>2</sup>, and P. Howell<sup>3</sup>
   <sup>1</sup>Dept. of Natural Resources and the Environment, University of Connecticut, Storrs, CT
   <sup>2</sup>Dept. of Marine Sciences, University of Connecticut at Avery Point, Groton, CT
   <sup>3</sup>Marine Fisheries Div., Connecticut Dept. of Environmental Protection, Old Lyme, CT
   SELECTION OF SPAWNING HABITATS BY HORSESHOE CRABS (*LIMULUS POLYPHEMUS*) ALONG THE COMPLEX CONNECTICUT COAST
- 11:30 (K) O'Connell, Christine A.
   School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY IDENTIFYING SOCIAL PERSPECTIVES AS THE BASIS FOR COASTAL AND MARINE SPATIAL PLANNING (CSMP) FOR LONG ISLAND SOUND
- 11:50 1:10 LUNCH Bayles Room and Wilse Room

#### **Ecosystem and Landscape Interactions**

Chair: Darcy Lonsdale

\* Presenter; (K) Ketchum Prize candidate for best graduate student presentation

- 1:15 (K) Coverdale\*, Tyler C.<sup>1</sup>, A. H. Altieri<sup>1</sup>, M. D. Bertness<sup>1</sup>, N. C. Herrmann<sup>1</sup>, and C. Holdredge<sup>2</sup>
   <sup>1</sup>Department of Ecology and Evolutionary Biology, Brown University, Providence, RI
   <sup>2</sup>Department of Biology, University of Florida, Gainesville, FL
   RECREATIONAL FISHING TRIGGERS SALT MARSH DIE-OFF ON CAPE COD, MA
- 1:35 (K) Carroll\*, John M. and B. J. Peterson School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY BALANCING THE EDGE EFFECTS BUDGET: BAY SCALLOP SETTLEMENT AND RECRUITMENT ALONG A SEAGRASS EDGE
- 1:55 (K) Cao\*, Zhenrui R., Q. Z. Zhu, R. C. Aller and J. Y. Aller School of Marine and Atmospheric Sciences, Stony Brook University, NY ANNUAL EXTRACELLULAR ENZYME ACTIVITIES REVEALED BY HIGH RESOLUTION TWO-DIMENSIONAL PLANAR FLUOROSENSORS IN GREAT PECONIC BAY
- 2:15 (K) Brown, D. Steven and R. Zajac Dept. of Biology and Environmental Science, Univ. of New Haven, West Haven, CT THE INFLUENCE OF HABITAT HETEROGENEITY ON FAUNAL COMMUNITIES IN NEARSHORE SOFT SEDIMENTS, NEW HAVEN HARBOR, LONG ISLAND SOUND
- 2:35 BREAK AND POSTER SESSION Tours of the SoMAS Research Vessel – Harbor Front Park Poster titles are listed at the end of the program

Chair: Darcy Lonsdale \* Presenter; (**K**) Ketchum Prize candidate for best graduate student presentation

- **4:00** (K) Gao\*, Jin<sup>1</sup> and S. B. Munch<sup>2</sup> <sup>1</sup>Department of Ecology and Evolution, Stony Brook University, NY <sup>2</sup>School of Marine and Atmospheric Sciences, Stony Brook University, NY ESTIMATING GENETIC CORRELATION BETWEEN SIZE AT AGES AND FECUNDITY IN ATLANTIC SILVERSIDES
- **4:20** (K) Divver\*, Martha M., G. Frisk, and R. M. Cerrato School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY ASSESSMENT OF THE ECOLOGICAL ROLE OF ADULT WHITE PERCH (MORONE AMERICANA)USING HYDROACOUSTIC TELEMETRY IN THE GREAT SOUTH BAY SYSTEM
- **4:40** (K) Nichols\*, Owen C.<sup>1</sup>, E. Eldredge<sup>2</sup>, and S. X. Cadrin<sup>1</sup> <sup>1</sup>School for Marine Sci. and Technol., Univ. of Mass. – Dartmouth, Fairhaven, MA <sup>2</sup>Chatham Fisheries/Monomoy Trap Company, West Chatham, MA NOCTURNAL SEAL DEPREDATION IN A NEARSHORE FISHERY AND IMPLICATIONS FOR ANALYSES OF ENVIRONMENTAL EFFECTS ON CATCH

### 5:00 NEERS BUSINESS MEETING

- 6:00 SOCIAL AND NEERS AWARDS BANQUET Brookhaven Ballroom Presentation of Awards for Best Student Papers
- 9:30 Music and dancing at Port Jazz, 201 Main Street, Port Jefferson

# Saturday, May 7<sup>th</sup>

## **Estuarine Habitats**

Chair: John Brawley \* Presenter

- 8:15 Gather for session
- 8:30 Peterson\*, Brad J. and A. M. Stubler School of of Marine and Atmospheric Sciences, Stony Brook University, NY CUMULATIVE IMPACTS OF MULTIPLE STRESSORS ON *ZOSTERA MARINA* POPULATIONS IN NEW YORK ESTUARIES
- 8:50 Davey\*, Earl<sup>1</sup>, C. Wigand<sup>1</sup>, R. Johnson<sup>1</sup>, A. Hanson<sup>1</sup>, C. Roman<sup>2</sup> and N. Maher<sup>3</sup>
   <sup>1</sup>US EPA NHEERL, Atlantic Ecology Division, 27 Tarzwell Drive, Narragansett, RI
   <sup>2</sup>National Park Service, University of Rhode Island, Narragansett, RI
   <sup>3</sup>The Nature Conservancy, 250 Lawrence Hill Road, Cold Spring Harbor, NY
   APPLICATION OF COMPUTER-AIDED TOMOGRAPHY (CT) TECHNOLOGY TO
   VISUALLY COMPARE BELOWGROUND COMPONENTS OF SALT MARSHES IN
   JAMAICA BAY AND LONG ISLAND, NEW YORK

- **9:10** Adamowicz\*, Susan C.<sup>1</sup>, D. Burdick<sup>2</sup>, J. Kramer<sup>1</sup>, and L. Wagner<sup>1</sup> <sup>1</sup> US Fish and Wildlife Service, Rachel Carson National Wildlife Refuge, Wells, ME <sup>2</sup>University of New Hampshire, Jackson Estuarine Laboratory, Durham, NH THE EFFECTS OF DITCH PLUGGING ON SALT MARSHES: 2005 AND 2009
- 9:30 Rochlin, I.<sup>1</sup>, M.J. James-Pirri<sup>2</sup>, S. C. Adamowicz<sup>3</sup>, M. E. Dempsey<sup>4</sup>, T. Iwanejko<sup>1</sup>, and Dominick V. Ninivaggi<sup>1</sup>\*
  <sup>1</sup>Division of Vector Control, Suffolk County Dept. of Public Works, Yaphank, NY
  <sup>2</sup>Graduate School of Oceanography, University of Rhode Island, Narragansett, RI
  <sup>3</sup>Rachel Carson National Wildlife Refuge, Wells, ME
  <sup>4</sup>Suffolk County Dept. of Environment and Energy, Yaphank, NY
  INTEGRATED MARSH MANAGEMENT AT WERTHEIM NATIONAL WILDLIFE REFUGE (NWR), LONG ISLAND, NEW YORK, 2003-PRESENT: EFFECTS ON NEKTON AND VEGETATION
- 9:50 da Silva Quintal\*, Sara N. and Lara Pomi-Urbat\* Nelson, Pope & Voorhis, Melville, NY A METHOD FOR MAPPING AND PRIORITIZING DIADROMOUS FISH HABITAT RESTORATION

#### **10:10 BREAK**

#### **Estuarine Variability**

Chair: John Brawley \* Presenter

- 10:30 Liebman\*, Matthew<sup>1</sup> and E. Dettmann<sup>2</sup>
   <sup>1</sup>US EPA New England, Five Post Office Square, Boston, MA
   <sup>2</sup>US EPA, NHEERL, Atlantic Ecology Division, Narragansett, RI
   COASTAL NUTRIENT CRITERIA AND TREND MONITORING IN NEW
   ENGLAND
- 10:50 McNamara\*, Marianne E., D. J. Lonsdale, and R. C. Aller School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY SEASONAL DIFFERENCES IN C:N:P CONTENTS OF THE CTENOPHORE MNEMIOPSIS LEIDYI (AGASSIZ) IN RESPONSE TO CHANGES IN POPULATION SIZE STRUCTURE AND NUTRITIONAL STATUS
- 11:10 Zarnoch\*, Chester B.<sup>1</sup> and T. J. Hoellein<sup>2</sup>
   <sup>1</sup>Dept. of Natural Science, Baruch College, City University of New York, NY
   <sup>2</sup>Department of Biology, Loyola University Chicago, Chicago, IL
   THE INFLUENCE OF OYSTER FEEDING AND BIODEPOSITION ON SEDIMENT
   NITROGEN CYCLING IN JAMAICA BAY, NEW YORK
- **11:30** Thomas, Ellen<sup>1,2</sup> and J. C. Varekamp<sup>2</sup> <sup>1</sup>Geology and Geophysics, Yale University, New Haven, CT <sup>2</sup>Earth and Environmental Sciences, Wesleyan University, Middletown, CT BENTHIC FORAMINIFERA IN LONG ISLAND SOUND

- 11:50 Zajac, Roman<sup>1</sup>, R. Whitlatch<sup>2</sup>, B. Gibbons<sup>2</sup>, A. Bergmann<sup>1</sup>, L. Stefaniak<sup>2</sup>, and D. Pinho<sup>1</sup>
   <sup>1</sup>Dept. Biology and Environmental Science, University of New Haven, West Haven, CT
   <sup>2</sup>Dept. Marine Sciences, Univ. Connecticut, Groton, CT
   DEVELOPMENT OF A LONG ISLAND SOUND (LIS) BENTHIC INDEX FOR
   ENVIRONMENTAL ASSESSMENT AND ECOSYSTEM MANAGEMENT
- 12:10 Closing Remarks Steve Hale, NEERS President
- **12:30** Field trip to Riverhead Foundation for Marine Research and Conservation departs from Danfords Hotel front desk
- 12:30 Field trip to Wertheim National Wildlife Refuge departs from Danfords Hotel front desk

## **POSTER PRESENTATIONS**

\* Presenter; (D) Dean Prize candidate for best graduate student poster

Adamowicz<sup>\*</sup>, Susan C.<sup>1</sup>, P. Drobney<sup>2</sup>, G. Guntenspergen<sup>3</sup>, J. Culpepper<sup>4</sup>, M. Gregg<sup>5</sup>, B. Johnson<sup>6</sup>, J. Reinman<sup>7</sup>, D. Sharp<sup>8</sup>, C. Craft<sup>9</sup>, C. Cambardella<sup>10</sup>, J. Kush<sup>11</sup>, S. Faulkner<sup>3</sup>, J. Morgan<sup>10</sup>, P. Shafroth<sup>3</sup>, and B. Wang<sup>3</sup>

<sup>1</sup> Rachel Carson National Wildlife Refuge; <sup>2</sup> Neal Smith NWR; <sup>3</sup> USGS; <sup>4</sup>Carolina Sandhills NWR; <sup>5</sup>Saddle Mountain NWR; <sup>6</sup>Tetlin NWR; <sup>7</sup>St. Marks NWR; <sup>8</sup>White River NWR; <sup>9</sup>Indiana University NWR; <sup>10</sup>USDA-ARS; <sup>11</sup> Auburn University ASSESSING CARBON SEQUESTRATION IN MULTIPLE ECOSYSTEMS: A NATIONAL LMRD COOPERATIVE PROJECT

(**D**) Bauer\*, Cassandra L., R. L. Swanson, and R. E. Wilson School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY PHYSICAL FACTORS CONTRIBUTING TO SUMMERTIME HYPOXIA IN THE BOTTOM WATERS OF SMITHTOWN BAY, LONG ISLAND SOUND

Bernhard\*, Anne E., D. Marshall, and L. Yiannos Department of Biology, Connecticut College, New London, CT INCREASED VARIABILITY OF MICROBIAL COMMUNITIES IN RESTORED SALT MARSHES NEARLY 30 YEARS AFTER TIDAL FLOW RESTORATION

Charpentier, M.<sup>1</sup>, Cathleen Wigand<sup>2</sup>\*, and J. Hyman<sup>3</sup> <sup>1</sup>Raytheon, 27 Tarzwell Drive, Narragansett, RI <sup>2</sup>US EPA NHEERL, Atlantic Ecology Division, 27 Tarzwell Drive, Narragansett, RI <sup>3</sup>University of Rhode Island, Kingston, RI 02881 ESTIMATES OF CARBON SEQUESTRATION AND STORAGE IN TIDAL COASTAL WETLANDS ALONG THE US EAST COAST (D) Furman\*, Bradley T.<sup>1</sup>, D. R. Deis<sup>2</sup>, and B. J. Peterson<sup>3</sup>
 <sup>1</sup>Department of Marine and Atmospheric Sciences, Stony Brook University, NY
 <sup>2</sup>PBS&J an Atkins Company, Jacksonville, FL
 <sup>3</sup>School of Marine and Atmospheric Sciences, Marine Sci. Research Center, Southampton, NY
 TEMPORAL EFFECTS OF INLET MODIFICATION AND PROTECTIVE SIGNAGE ON
 THE FRACTAL GEOMETRY OF A SEAGRASS MEADOW: A 3-YR STUDY OF
 SEBASTIAN INLET, FL

Gilman, M.<sup>1</sup>, D. J. Drew<sup>2</sup>, Beth Patrizzi<sup>1\*</sup>, and S. P. Grace<sup>3</sup> <sup>1</sup>Cedar Island Marina Research Lab, P.O. Box 181, Clinton, CT <sup>2</sup>Peabody Museum, Dept. of Invertebrate Zoology, P.O. Box 208118, New Haven, CT <sup>3</sup>Southern Connecticut State University, Biology Department, 501 Crescent St., New Haven, CT ANNOTATED LIST OF MARINE MACRO FAUNA IN CEDAR ISLAND MARINA, CLINTON HARBOR, CT, LONG ISLAND SOUND

Knowles, I.<sup>1</sup>, Beverly J. Johnson<sup>1</sup>\*, P. Dostie<sup>1</sup>, and W. Locke<sup>2</sup> <sup>1</sup>Department of Geology; <sup>2</sup>Department of Biology; Bates College, ME A BIOGEOCHEMICAL STUDY OF DITCHPLUG AND NATURAL POOLS IN THE SPRAGUE RIVER MARSH, PHIPPSBURG, ME

(D) Lamb\*, Annesia L.<sup>1</sup>, R. B. Boger<sup>2</sup>, and B. F. Branco<sup>1,2</sup> <sup>1</sup>Aquatic Research and Environmental Assessment Center, Brooklyn College, NY and Department of Earth and Environmental Sci., The Graduate Center, CUNY, NY <sup>2</sup>Department of Earth and Environmental Sciences, Brooklyn College, NY ANALYZING THE TRENDS OF WATER QUALITY INDICATORS IN JAMAICA BAY, NY

MacLachlan, Andrew U.S. Fish and Wildlife Service, Coastal Program, Charlestown, RI EELGRASS IN EASTERN LONG ISLAND SOUND -- ASSESSMENT FROM INVENTORIES

 (D) Mass\*, Allison S.<sup>1,2</sup>, W. G. Wallace<sup>2</sup>, and C. B. Zarnoch<sup>3</sup>
 <sup>1</sup>The Graduate Center, City University of New York
 <sup>2</sup>Biology Department, College of Staten Island
 <sup>3</sup>Department of Natural Sciences, Baruch College
 THE EFFECTS OF CHRONIC HABITAT DEGRADATION ON THE PHYSIOLOGY AND METAL ACCUMULATION OF EASTERN OYSTERS, Crassostrea virginica

(**D**) Mora\*, Jordan W. and D. M. Burdick Department of Natural Resources and the Environment, Univ. of New Hampshire, Durham, NH THE EFFECTS OF BERMS ON NORTHERN NEW ENGLAND TIDAL MARSHES

Poppe\*, Lawrence J.<sup>1</sup>, W. W. Danforth<sup>1</sup>, K. Y. McMullen<sup>1</sup>, C. E. Parker<sup>2</sup> and E. F. Doran<sup>3</sup> <sup>1</sup>USGS, Woods Hole, MA <sup>2</sup>AHB, NOAA, Norfolk, VA <sup>3</sup>Connecticut Department of Environmental Protection, Hartford, CT COMBINED MULTIBEAM AND LIDAR BATHYMETRY DATA FROM EASTERN LONG ISLAND SOUND AND WESTERNMOST BLOCK ISLAND SOUND – A REGIONAL PERSPECTIVE Rochlin, I.<sup>1</sup>, M. E. Dempsey<sup>2</sup>, T. Iwanejko<sup>1</sup>, and Dominick V. Ninivaggi<sup>1</sup>\* <sup>1</sup>Div. of Vector Control, Suffolk Co. Dept. of Public Works, 335 Yaphank Ave., Yaphank, NY <sup>2</sup>Suffolk County Department of Environment and Energy, 335 Yaphank Avenue, Yaphank, NY AQUATIC INSECTS OF NEW YORK SALT MARSH

**(D)** Salazar\*, Camilo E.

New York Suffolk County Departments of Environment and Energy, Public Works and Division of Vector Control, Health Services, and Parks and Recreation and Dept. of Environment and Energy, School of Marine Sciences, Stony Brook University, NY TIDAL WETLAND RESTORATION AT THE SUFFOLK COUNTY INDIAN ISLAND PARK, NEW YORK

(**D**) Suter\*, Elizabeth A., G. T. Taylor and K. M. M. Lwiza School of Marine and Atmospheric Sciences, Stony Brook University, NY EVIDENCE OF CHANGING NUTRIENT REGIMES IN LONG ISLAND SOUND

Wigand\*, Cathleen<sup>1</sup>, E. Davey<sup>1</sup>, R. Johnson<sup>1</sup>, R. S. Warren<sup>2</sup>, and D. S. Johnson<sup>3</sup> <sup>1</sup>US EPA NHEERL, Atlantic Ecology Division, 27 Tarzwell Drive, Narragansett, RI <sup>2</sup>Connecticut College, New London, CT

<sup>3</sup>Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA USE OF CT IMAGING TO EXAMINE THE COARSE ROOTS, RHIZOMES, AND PEAT ASSOCIATED WITH CREEK BANK SPARTINA ALTERNIFLORA IN FERTILIZED AND CONTROL CREEKS IN PLUM ISLAND (MA)