

NEW ENGLAND ESTUARINE RESEARCH SOCIETY

PROGRAM

SPRING 2002 MEETING

MAY 9 – 11, 2002

**ATLANTIC OAKES BY-THE-SEA
BAR HARBOR, MAINE**

Jointly Hosted By

US GEOLOGICAL SURVEY

ACADIA NATIONAL PARK

COLLEGE OF THE ATLANTIC

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SYNOPSIS

Registration desk open: Thursday, 12:00 noon-3:00 p.m. and 5:00-7:00 p.m.; Friday, 8:00 a.m.-12:00 noon

Thursday, May 9

1:00 – 5:00 PM Marine Invertebrate Diversity Initiative Workshop

5:00 – 7:00 PM Social

7:00 PM Buffet Dinner at Atlantic Oakes (Pre-order required)

Friday, May 10

8:20 AM – 5:30 PM Contributed Oral and Poster Presentations

5:30 – 6:00 PM NEERS Business Meeting

6:00 – 11:00 PM Social, Awards Banquet, and Contra Dance at
College of the Atlantic

Saturday, May 11

8:00 – 10:00 AM Contributed Oral and Poster Presentations

10:15 AM – 12:30 PM Protected Areas Mini-Symposium

1:30 – 4:00 PM Somes Sound Field Trip

Thursday, May 9th, 2002

All events take place at the Atlantic Oakes Conference Center:

12:00 – 3:00 PM	Meeting Registration (optional box lunch if pre-ordered)
1:00 – 5:00 PM	Marine Invertebrate Diversity Initiative Workshop
5:00 – 9:00 PM	Poster Set-up
5:00 – 7:00 PM	Social
5:00 – 7:00 PM	Meeting Registration
7:00 PM	Buffet dinner if pre-ordered

**WORKSHOP:
THE MARINE INVERTEBRATE DIVERSITY
INITIATIVE**

1:00 Davis, D.S.¹, and P. Larsen²

¹MIDI Society and Nova Scotia Museum of Natural History;

²Bigelow Laboratory

WELCOME

1:15 Pederson, J.

MIT Sea Grant College Program

HITCHHIKE, SWIM, OR WALK: DISPERSAL OF
NONINDIGENOUS SPECIES

1:35 Dionne, M.

Wells National Estuarine Research Reserve

INTEGRATED BIOLOGICAL MONITORING OF COASTAL
HABITATS IN THE GULF OF MAINE: POTENTIAL
APPROACHES AND FIRST STEPS

1:55 Davis, D.S.

MIDI Society and Nova Scotia Museum of Natural History
THE DEVELOPMENT OF THE MARINE INVERTEBRATE
DIVERSITY INITIATIVE (MIDI) WEB-SITE AS A TOOL FOR
MARINE EDUCATION AND CONSERVATION

2:25 Coffee

2:45 Boudreau, P.

MIDI Society and Canada Department of Fisheries and Oceans
CONSIDERATION OF MARINE INVERTEBRATES IN
HABITAT CLASSIFICATION AND ASSESSMENT

3:05 On-line Demonstration: Paul Boudreau

3:35 – 5:00 Plenary Discussion

MIDI's potential applications: Questions, suggestions, and closing
comments

5:00 – 7:00 SOCIAL

7:00 BUFFET DINNER (if pre-ordered)

Friday, May 10, 2002

At the Atlantic Oakes:

8:00 AM– 10:00

AM

Poster Set-up

8:20 AM – 5:20

PM

Oral Presentations

12:10 PM – 1:30

PM

Buffet lunch if pre-ordered

2:50 PM – 4:00 PM Poster Session

5:30 PM

Business Meeting

At College of the Atlantic:

- 6:00 – 7:00 PM** Microbrew Tasting Social
(specific location will be
announced)
- 7:00 – 9:00 PM** Banquet (College patio and Blair
Dining Hall)
- 9:00 – 11:00 PM** Contra Dance (Gates Center)

MORNING CONTRIBUTED PAPER SESSION
**Session Chair = Linda Deegan, Marine Biological
Laboratory**

* denotes presenter, (K) denotes Ketchum Prize candidate

8:20 Welcome and Introductory Remarks - Linda Deegan, NEERS
President

8:30 (K) Altieri*, A.H., and J.D. Witman
Dept. of Ecology and Evolutionary Biology, Brown Univ.,
Providence, RI 02912

DE-COUPLING OF TOP-DOWN AND BOTTOM-UP
CONTROL DUE TO HYPOXIC DISTURBANCE IN
NARRAGANSETT BAY, RHODE ISLAND

8:50 (K) Carmichael*, R.H., A.C. Shriver, and I. Valiela
Boston Univ. Marine Program, Marine Biological Laboratory,
Woods Hole, MA 02543

USING N STABLE ISOTOPES TO LINK GROWTH
RESPONSES OF COMMERCIALY IMPORTANT BIVALVES
TO LAND-DERIVED N LOADS

9:10 (K) Shriver*, A.C., R.H. Carmichael, and I. Valiela
Boston Univ. Marine Program, Marine Biological Laboratory,
Woods Hole, MA, 02543

GROWTH, CONDITION, REPRODUCTIVE POTENTIAL,
AND MORTALITY OF BAY SCALLOPS, ARGOPECTEN

IRRADIANS, IN RESPONSE TO EUTROPHIC- DRIVEN
CHANGES IN FOOD RESOURCES

9:30 (K) Keats*, R.A.¹, L.J. Osher², H.A. Neckles³, and B. Kopp³

¹Ecology and Environmental Sciences Program, Univ. of Maine, Orono, ME 04469;

²Dept. of Plant, Soil and Environmental Sciences, Univ. of Maine, Orono, ME 04469;

³USGS Patuxent Wildlife Research Center, Augusta, ME 04330

THE EFFECT OF NUTRIENT LOADING ON AN ESTUARINE
FOOD WEB: A STABLE ISOTOPE APPROACH

9:50 (K) Fulweiler*, R.W., S. W. Nixon, B. Buckley, and S. L. Granger

Univ. of Rhode Island Graduate School of Oceanography,
Narragansett, RI 02882

QUANTIFYING NUTRIENT LOADING FROM THE
PAWCATUCK WATERSHED TO LITTLE NARRAGANSETT
BAY

10:10 BREAK

10:30 (K) Gazda*, S.K., and R.C. Connor

Dept. of Biology, Univ. of Massachusetts Dartmouth, Dartmouth,
MA 02747

EVIDENCE OF ROLE SPECIALIZATION AMONG
FORAGING BOTTLENOSE DOLPHINS (TURSIOPS
TRUNCATUS) OFF CEDAR KEY, FLORIDA

10:50 (K) Gullo*, A.M., and J.R. Moring

Maine Cooperative Fish and Wildlife Research Unit, Univ. of
Maine, Orono, ME 04469

THE VALUE OF ROCKWEED (ASCOPHYLLUM NODOSOM)
AS HABITAT FOR TIDEPOOL FISHES

11:10 (K) Kim*, A.K., and N.J. O'Connor

Dept. of Biology, Univ. of Massachusetts Dartmouth, Dartmouth,
MA 02747

THE ASIAN SHORE CRAB, HEMIGRAPSUS SANGUINEUS,
AS A NOVEL FOOD SOURCE FOR THE STRIPED
KILLIFISH, FUNDULUS MAJALIS

11:30 (K) Taylor, D.L.

Univ. of Rhode Island, Graduate School of Oceanography,
Narragansett, RI 02882

DETECTING JUVENILE WINTER FLOUNDER IN THE
STOMACHS OF INVERTEBRATE PREDATORS WITH THE
_UCHTERLONY IMMUNOASSAY

11:50 (K) Rutecki*, D.A., R.H. Carmichael, and I. Valiela
Boston Univ. Marine Program, Marine Biological Laboratory,
Woods Hole, MA 02543.

THE MAGNITUDE AND EFFECT OF COMMERCIAL
HARVEST ON HORSESHOE CRABS, LIMULUS
POLYPHEMUS, IN PLEASANT BAY, MA.

12:10-1:30 LUNCH (Buffet at Atlantic Oakes if pre-ordered)

AFTERNOON CONTRIBUTED PAPER SESSION
Session Chair = Marshall Pregnall, Vassar College

1:30 Short*, F.T.¹, R.G. Coles², M.D. Fortes³, and E.W. Koch⁴

¹Dept. of Natural Resources, Jackson Estuarine Lab., Univ. of

New Hampshire, Durham, NH ²Dept. of Primary Industries

Queensland, Northern Fisheries Centre, Cairns, Qld 4870

Australia; ³Marine Sci. Institute CS, Univ. of the Philippines,

Diliman Quezon City 1101 Philippines; ⁴Horn Point Lab., Univ.

of Maryland Center for Environmental Science, Cambridge, MD

SEAGRASSNET: ASSESSING A CRITICAL COASTAL
RESOURCE WORLD WIDE

1:50 (K) Evans*, N.T., and F.T. Short

Dept. of Natural Resources, Jackson Estuarine Lab., Univ. of New Hampshire, Durham, NH

USING FUNCTIONAL TRAJECTORIES TO ASSESS THE SUCCESS OF TRANSPLANTED EELGRASS BEDS IN THE GREAT BAY ESTUARY, NH

2:10 (K) Gaeckle*, J.L.¹, B.S. Kopp², and F.T. Short¹

¹Dept. of Natural Resources, Jackson Estuarine Lab., Univ. of New Hampshire, Durham, NH; ²U.S. Geological Survey, Patuxent Wildlife Research Center, 26 Ganneston Drive, Augusta, ME

THE EFFECT OF INITIAL PATCH SIZE ON THE VEGETATIVE REPRODUCTION AND AREAL EXPANSION OF TRANSPLANTED EELGRASS (*ZOSTERA MARINA* L.)

2:30 (K) Burdick*, C.L., and F.T. Short

Dept. of Natural Resources, Jackson Estuarine Lab., Univ. of New Hampshire, Durham, NH

AN EELGRASS MESOCOSM EXPERIMENT: EFFECTS OF WATER DEPTH ON INTERTIDAL AND SUBTIDAL EELGRASS SHOOT DENSITY, SHEATH LENGTH AND CANOPY HEIGHT

2:50-4:00 BREAK and POSTER SESSION

(D) denotes Dean Prize candidate

(D) Allen*, A., and J. Fegley

Corning School of Ocean Studies, Maine Maritime Academy, Castine, ME 04420

MORPHOLOGICAL CHARACTERISTICS AND BIOMASS DISTRIBUTION OF *ASCOPHYLLUM NODOSUM* AT DIFFERENT WAVE EXPOSURES.

Bell, R.¹, R. Buchsbaum*², C. Roman³, and M. Chandler⁴

¹New England Aquarium, Central Wharf, Boston, MA 02110;

²Massachusetts Audubon Society, 346 Grapevine Rd. Wenham,

MA 01984; ³National Park Service, Univ. of Rhode Island
Narragansett, RI 02882; ⁴New England Aquarium, Central Wharf,
Boston, MA 02110

INVENTORY OF INTERTIDAL RESOURCES OF THE
BOSTON HARBOR ISLANDS, A NATIONAL PARK AREA

(D) Blasi*, J.C., and N.J. O'Connor

Dept. of Biology, Univ. of Massachusetts-Dartmouth, North
Dartmouth, MA, 02747

MARINE AMPHIPODS AS PREY FOR THE NON-
INDIGENOUS CRAB, HEMIGRAPSUS SANGUINEUS

Boucher*, J., K. Krecek and S. Stoltz

Corning School of Ocean Studies, Maine Maritime Academy,
Castine, ME 04420

INTERPRETATION OF OPAL IN SEDIMENT CORES:
ESTUARINE CONSIDERATIONS

Bowen*, M.¹, K. Payne¹, C. Heinig², and K. Groves³

¹Normandeau Associates, 253 Main St. Yarmouth ME, 04096;

²MER Assessment Corp., 14 Industrial Dr., Brunswick ME

04011; ³Casco Bay National Estuary Project, Univ. of S. Maine
Law Institute, Box 9300, Portland ME 04103

RESTORING AND SUSTAINING CLAM RESOURCES IN
CASCO BAY, MAINE

(D) Bozek*, C.M., and D.M. Burdick

Dept. of Natural Resources, Jackson Estuarine Lab., Univ. of New
Hampshire, Durham, NH

THE EFFECTS OF SEAWALLS AND BERMS ON SALT
MARSHEs: IMPLICATIONS FOR MARSH PERSISTENCE

(D) Businski, T.N., E. Renkene*, and C. Urban*

Dept. of Biology, Bates College, Lewiston, Maine 04240

EFFECTS OF BAITWORM DIGGING ON INTERTIDAL
BENTHIC CARBON REMINERALIZATION

Costa*, C. S. B., M. Copertino, S.R. Cunha, R. Knak, and
A.M.M. Mazzo

Dept. de Oceanografia, Univ. de Rio Grande, CP 474, 96201-900
Rio Grande, RS. Brazil

SALT MARSH PLANT ASSEMBLIES OF THE BRAZILIAN
ESTUARINE NATIONAL PARK OF LAGOA DO PEIXE (RS,
BRAZIL).

Dennison*, T.H., L.E. Sahl, K. Krecek, and J. Boucher
Corning School of Ocean Studies, Maine Maritime Academy,
Castine, ME 04420

PARTICLE COMPOSITION, DISTRIBUTION AND VERTICAL
FLUX IN THE PENOBSCOT RIVER AND BAY

(D) Eberhardt*, A.L., and D.M. Burdick

Dept. of Natural Resources, Jackson Estuarine Lab., Univ. of New
Hampshire, Durham, NH

EVALUATION OF CULVERT IMPACTS AND TIDAL
RESTORATION BENEFITS ON FISH COMMUNITIES IN
NEW ENGLAND SALT MARSHES

Green*, M.A., P. Chapman, N. Charette, N. Dowse, A. Waleik,
M. Jones, and C. Renaud

Dept. of Marine and Environ. Sci., Saint Joseph's College of
Maine, 278 Whites Bridge Road, Standish, ME 04084

SPATIO-TEMPORAL PATTERNS OF CARBON
REMINERALIZATION IN CASCO BAY ESTUARY, GULF OF
MAINE.

Haas*, H.L.¹, L.A. Deegan¹, and K.A. Rose²

¹Marine Biol. Lab., Woods Hole, MA 02543; ²Coastal Fisheries
Inst., LSU, Baton Rouge, LA

BUILDING A SIMULATION MODEL TO EVALUATE THE
EFFECT OF FLOODING FREQUENCY AND DURATION ON
MUMMICHOG PRODUCTION IN A NEW ENGLAND SALT
MARSH.

Holton*¹, K.L., R.B. Jonas², K. Marano Briggs², J.E. Darga¹,
and D.J. Ellis¹

¹Biology Dept., Univ. of Massachusetts, N. Dartmouth, MA
02747;

² Biology Dept., George Mason Univ., Fairfax, VA 22033
NOVEL SULFIDOGENIC THERMOTOLERANT BACTERIA
OBTAINED FROM SUBTROPICAL ESTUARINE BLUE HOLE

James-Pirri*, M.J.¹, and C.T. Roman²

¹Grad. School of Oceanography, Univ. of Rhode Island,
Narragansett, RI 02882;

²National Park Service, Univ. of Rhode Island, Narragansett, RI
02882

A NEW NEKTON SAMPLER FOR SALT MARSH DITCHES

Kidder*, G.W., III¹, R. L. Preston², and C. W. Petersen³

¹Mt Desert Island Biological Lab., Salisbury Cove, ME; ²Dept. of
Biological Sci., Illinois State Univ., Normal, IL; ³College of the
Atlantic, Bar Harbor, ME

BEHAVIORAL OSMOREGULATION IN KILLIFISH -
PROSPECTUS FOR AN ECOLOGICAL, PHYSIOLOGICAL
AND MOLECULAR STUDY OF FUNDULUS FROM
NORTHEAST CREEK, BAR HARBOR

Logan*, J.M., L.A. Deegan, R.H. Garritt, and H.L. Haas
The Ecosystems Center, Marine Biological Laboratory, Woods
Hole, Massachusetts 02543

EVALUATING THE ACCURACY OF FORAGE FISH
ABUNDANCE ESTIMATES IN A NEW ENGLAND SALT
MARSH BASED UPON SEINE SAMPLING DATA.

MacKenzie, R.A.

Wells National Estuarine Research Reserve, Wells, ME, 04090
EMERGING INSECTS FROM A SALT MARSH SYSTEM IN
SOUTHERN MAINE

(D) Meltzer, K.R.

Dept. of Biology Bates College, Lewiston, ME 04240

INTERANNUAL GROWTH RATE VARIATION IN THE SOFT-SHELLED CLAM, *MYA ARENARIA*, AND ITS RELATIONSHIP TO INTERANNUAL TEMPERATURE DIFFERENCES AND HABITAT AT MAQUOIT BAY, MAINE

Mullaney*, J.R.¹, G.E. Schwarz², and E.C.T. Trench¹

¹U.S. Geological Survey, East Hartford, CT, 06108; ²U.S. Geological Survey, Reston, VA

ESTIMATION OF NONPOINT NITROGEN LOADS FROM BASINS DRAINING TO LONG ISLAND SOUND USING MULTIPLE-LINEAR REGRESSION MODELING

Nutting, G.E.

Maine Dept. of Marine Resources, West Boothbay Harbor, ME, 04575

THE GREEN CRAB - EMERGING SUSTAINABLE FISHERY OR TOTAL ERADICATION

(D) Pakenham,* A., and P.E. Fell

Dept. of Zoology, Connecticut College, KECK Research Grant, CT 06320

EXAMINATION OF MACROINVERTEBRATE POPULATIONS IN A RESTORING AND REFERENCE TIDAL MARSH USING SEVERAL SAMPLING METHODS

(D) Paul* A.L., and J. Fegley

Corning School of Ocean Studies, Maine Maritime Academy, Castine, ME 04420

COMPARISON OF COMMUNITIES OF PHYTAL ORGANISMS THAT LIVE AMONG *ASCOPHYLLUM NODOSUM* AND *FUCUS VESICULOSUS*

Roman*, C.T.¹, J.F. Heltshe², and M.J. James-Pirri³

¹National Park Service, Univ. of Rhode Island, Narragansett, RI

02882;

²Dept. of Computer Science and Statistics, Univ. of Rhode Island, Kingston, RI 02881;

³Graduate School of Oceanography, Univ. of Rhode Island, Narragansett, RI 02882

MONITORING SALT MARSH VEGETATION CHANGE:
SOME THOUGHTS ON SAMPLE SIZE

(D) Stefany *, E. A.

Dept. of Environmental Studies, Bates College, Lewiston, ME, 04240

COMPARISON OF MACROBENTHIC COMMUNITY
STRUCTURE INSIDE AND OUTSIDE OF A ZOSTERA
MARINA BED IN MAQUIOT BAY, MAINE

AFTERNOON CONTRIBUTED PAPER SESSION - CONTINUED

4:00 Duff*, E.B.¹, R. Buchsbaum¹, A. Ridlon¹, and D.M. Burdick²

¹Mass Audubon, Wenham, MA 01984, ²JEL, Univ. of New Hampshire, Durham, NH 03824

SALINITY AND PHRAGMITES: WHAT'S THE
RELATIONSHIP? A PRELIMINARY ASSESSMENT FROM
THE MASS AUDUBON SALT MARSH SCIENCE PROJECT

4:20 (K) Mullan*, C.P., M.D. Bertness, and B.R. Silliman
Brown Univ., Dept. of Ecology and Evolutionary Biology, Box G-
W, Providence, RI

SHIFTS IN WETLAND COMMUNITY COMPOSITION
ACROSS ESTUARINE SALINITY GRADIENTS: PHYSICAL
AND BIOLOGICAL DETERMINANTS

4:40 (K) Saltonstall, K.

Dept. of Ecology and Evolutionary Biology, Yale University, New Haven, CT

NATIVE OR INTRODUCED? GENETIC VARIATION IN
NORTH AMERICAN POPULATIONS OF PHRAGMITES
AUSTRALIS

5:00 Konisky*, R.A., and D.M. Burdick

Jackson Estuarine Lab., Univ. of New Hampshire, Durham, NH
03824

TIDAL RESTRICTION AND RESTORATION: A SPATIAL
SIMULATION MODEL OF DRAKES ISLAND MARSH
(WELLS, MAINE)

5:30 BUSINESS MEETING

6:00 SOCIAL (College of the Atlantic, specific location will be
announced)

7:00 BANQUET (College of the Atlantic, Blair Dining Hall)

9:00 CONTRA DANCE (College of the Atlantic Gates Center)

Saturday, May 11, 2002

**8:00 AM– 10:00
AM**

Contributed Oral Presentations

**10:15 AM–12:30
PM**

Protected Areas Mini-Symposium

12:30 PM

Box lunch if pre-ordered

1:30 – 4:00 PM

Somes Sound Boat Tour led by
National Park Service

CONTRIBUTED PAPER SESSION
Session Chair = Hilary Neckles, USGS

8:00 Costa*, C.S.B., and J. C. Marangoni

Dept. de Oceanografia, Univ. de Rio Grande, CP 474, 96201-900
Rio Grande, RS. Brazil

COMPETITION, PHYSICAL STRESS TOLERANCE AND
HERBIVORY ROLES IN THE PLANT COMMUNITY OF AN
IRREGULARLY FLOODED SALT MARSH.

8:20 Rozsa*, R.¹, and R.S. Warren²

¹CT Dept. of Environmental Protection, Office of Long Island
Sound Programs, Hartford, CT 06106; ²Connecticut College,
Dept. of Botany, New London, CT 06320

TIDAL WETLAND LOSS IN WESTERN LONG ISLAND
SOUND: A REFLECTION OF RECENT SEA LEVEL RISE?

8:40 Cieri,* M.D.¹, B. Fry², L. Deegan², B. Peterson², J.
Hughes², and C. Tobias²

¹Maine Dept. of Marine Resources, McKown Point Rd. West
Boothbay Harbor, ME 04575;

²The Ecosystem Center, Marine Biological Laboratory Woods
Hole, MA 02543

WHAT A DIFFERENCE A YEAR MAKES: USING STABLE
ISOTOPES TO TRACK CHANGES IN AN ESTUARINE FOOD
WEB

9:00 Spencer, L.T.

Natural Science Department, Plymouth State College, Plymouth,
NH 03264

A SEAGULL'S EYE VIEW OF THE MARINE ENVIRONMENT

9:20 Geoghegan*, P.¹, and R.A. Sher²

¹Normandeau Assoc., Bedford, NH, 03110; ²North Atlantic
Energy Service Corp., Seabrook, NH

LONG-TERM TRENDS IN THE ICHTHYOPLANKTON
COMMUNITY OF COASTAL NEW HAMPSHIRE

9:40 Giblin, A.E.

The Ecosystems Center, Marine Biological Laboratory, Woods

Hole, MA, 02543

PRELIMINARY RESULTS OF THE ESTUARINE RESEARCH
FEDERATION WORKSHOP: FACILITATION OF RESEARCH
ON ESTUARINE RESPONSES TO CLIMATE CHANGE AND
VARIABILITY

10:00-10:15 BREAK

**MINI-SYMPOSIUM:
THE ROLE OF PROTECTED AREAS IN
MAINTAINING THE INTEGRITY OF COASTAL
AND ESTUARINE SYSTEMS**

Session Chair = Charles Roman, National Park Service

10:15 Shelley, P.

Conservation Law Foundation, Rockland, ME 04841

INTRODUCTION TO MARINE PROTECTED AREAS: A
LEGAL, POLITICAL AND HISTORICAL CONTEXT FOR
CONSIDERING THIS FORM OF STEWARDSHIP.

10:45 Manski, D.

Division of Resource Management, Acadia National Park, P.O.
Box 177, Bar Harbor, ME 04609

PROTECTING SHORELINE LANDSCAPES THROUGH
CONSERVATION EASEMENTS; EXAMPLES FROM ACADIA
NATIONAL PARK

11:15 Watling, L.

Darling Marine Center, Univ. of Maine, 193 Clark's Cove Rd.,
Walpole, ME 04573

MPA'S AREN'T JUST FOR DEEP WATER: THE SCIENTIFIC
VALUE OF ESTUARINE MPAs

11:45 Murawski, S.A.

National Marine Fisheries Service, Woods Hole, MA 02543

USE OF LARGE-SCALE FISHERY CLOSURES IN FISHERIES
MANAGEMENT AND BIODIVERSITY PROTECTION - A

NEW ENGLAND CASE HISTORY

12:15 DISCUSSION

12:30 Closing Remarks, Linda Deegan, NEERS President

12:35 Box lunches available if pre-ordered

1:30 – 4:00 Somes Sound Boat Tour



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