

SPECIAL SYMPOSIUM ON COASTAL PONDS LAGOONS

21 APRIL, 1988

WOODS HOLE, MASSACHUSETTS

HOSTED BY

THE ECOSYSTEMS CENTER  
MARINE BIOLOGICAL LABORATORY  
WOODS HOLE, MASSACHUSETTS

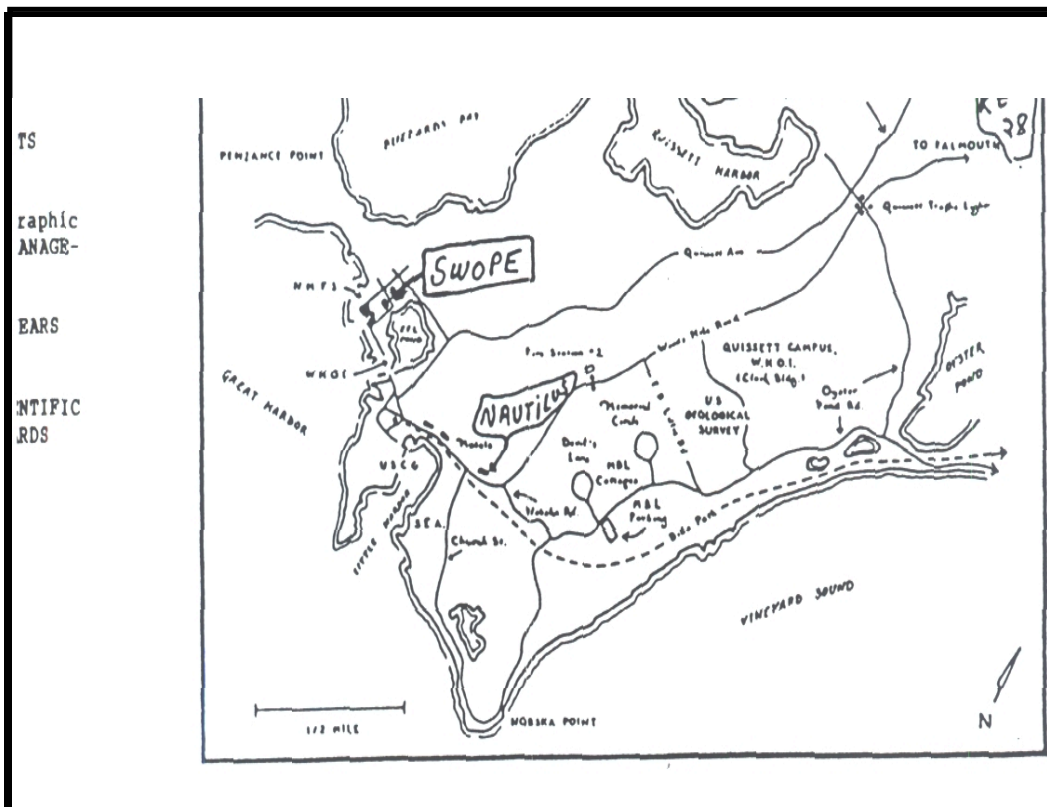
AND

WAQUOIT BAY NATIONAL ESTUARINE RESEARCH RESERVE PROGRAM

- 0835 Welcome
- 0840 Lee, V., Coastal Resources Center, GSO, University of Rhode Island, Narragansett, RI. EUTROPHICATION, SCIENTIFIC RESEARCH AND MANAGEMENT INITIATIVES FOR RHODE ISLAND COASTAL LAGOONS.
- 0920 Grainger, S., University of Rhode Island. A LONG TERM EXPERIMENT STUDY OF WATER QUALITY & PRODUCTIVITY IN REPLICATE COASTAL LAGOON ECOSYSTEMS RECEIVING VARIOUS LEVELS OF NITROGEN ENRICHMENT.
- 0940 Caraco, N. F., Institute of Ecosystem Studies, Millbrook, NY. RELATIONSHIP BETWEEN PRODUCTION AND NUTRIENT LOADING IN A BRACKISH COASTAL POND, SIDERS POND, FALMOUTH, MASSACHUSETTS.
- 1000 Break
- 1020 Valiela, I. and J. Costa, Boston University Marine Program, Marine Biological Laboratory, Woods Hole, MA. N AND P INPUTS INTO BUTTERMILK BAY AND ITS WATERSHED.
- 1040 Gaines, A. G. Jr., Marine Policy Center, Woods Hole Oceanographic Institution, Woods Hole, MA. PERSPECTIVES ON SCIENCE AND MANAGEMENT IN SOUTHERN NEW ENGLAND ESTUARIES.
- 1100 Xerfoot, W. B., K-V Associates, Inc., Falmouth, MA. FIVE YEARS UNDER SAIL - EXPERIENCES WITH THE NUTRIENT BYLAWS.
- 1125 Buckland, K. J., Planning Board, Town of Falmouth, MA. SCIENTIFIC CERTAINTY VS. REGULATORY NEEDS: THE CASE OF NUTRIENT STANDARDS FOR COASTAL PONDS.
- 1145 Discussion
- 1200 Lunch

- 1320 Spaulding, M. L., Ocean Engineering, University of Rhode Island, Kingston, RI 02881. TIDAL EXCHANGE BETWEEN BLOCK ISLAND SOUND AND NINIGRET POND.
- 1400 Fitzgerald, D. M., Department of Geology, Boston University, Boston, MA. FORMATION AND FATE OF COASTAL BAYS AND TIDAL INLETS IN NEW ENGLAND.
- 1420 Anderson, D. M., and B. A. Keafer, Biology Department, Woods Hole Oceanographic Institution, Woods Hole, MA. DINOFLAGELLATE SPECIES SUCCESSION IN A COASTAL POND: MECHANISMS AND DYNAMICS.
- 1500 Break
- 1520 Hickey, M., Division of Marine Fisheries, Sandwich, MA. COLIFORMS.
- 1540 Teal, J. M. and B. L. Howes, Woods Hole Oceanographic Institution, Woods Hole, MA. NITROGEN BUDGET OF A CRANBERRY BOG.
- 1600 Short, F. T., E. C. Brainard and J. Wolf, Jackson Estuarine Laboratory, University of New Hampshire, Durham, NH. EAST COAST EELGRASS POPULATIONS: LATITUDINAL TRENDS AND HEALTH ASSESSMENT.
- 1620 Costa, J. E., Boston University Marine Program, Marine Biological Laboratory, Woods Hole, MA. RECENT AND HISTORICAL CHANGES IN ABUNDANCE OF EELGRASS (*Zostera marina* L.) IN WAQUOIT BAY, MA.
- 1640 Deegan, L. A., S. Saucerman and D. Basler, Department of Forestry and Wildlife Management, University of Massachusetts, Amherst, MA. CHANGES IN THE WAQUOIT BAY FISH COMMUNITY OVER A TWENTY YEAR PERIOD.
- 1700 Adjourn

THE WOODS HOLE PENINSULA



PROGRAM FOR THE SPRING NEERS MEETING

21 - 23 APRIL, 1988

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THE ECOSYSTEMS CENTER  
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AND

WAQUOIT BAY NATIONAL ESTUARINE *RESEARCH RESERVE*

Thursday, 21 April

"Just as houses are made of stones so is science made of facts; but a pile of stones is not a house and a collection of facts is not necessarily science." Jules Henri Poincare 1854-1912

0830 - 1700 Special Symposium on Coastal Ponds and Lagoons. Program attached.

0800 - 1200, 1930 - 2200 Registration, Swope Center

1930 - June Beer Blast. Meigs Room. Swope Center. I Timothy 5:23

Friday, 22 April

0800 - 1200 Registration. Swope Center

Paper Session I. As near the ocean's edge as I can go. Thoreau.

\*Ketchum Prize candidate

0825 Welcome

0830 Loder, T. C., Institute for the Study of Earth, Oceans, and Space, University of New Hampshire, Durham, NH 03824 NUTRIENT AND HYDROGRAPHIC PARAMETERS IN COASTAL WATERS OFF BOSTON HARBOR DURING LATE SUMMER - 1987.

- 0850 Smayda, T. J. and T. A. Villareal, GSO, University of Rhode Island, Kingston, RI 02881 ENRICHMENT EXPERIMENTS AND POTENTIAL INFLUENCE OF SILICON ON NUTRIFICATION IN COASTAL WATERS OFF BOSTON HARBOR DURING LATE SUMMER 1987.
- \*0910 Gregory, C. J., Dept. of Botany and Plant Pathology, University of Maine, Orono, Maine 04669 CONTRIBUTION OF THE CILIATED PROTOZOA TO THE MICROPLANKTON BIOMASS IN THE GULF OF MAINE, DURING 1987.
- 0930 McIvor, C. C.<sup>1</sup>, L.P. Rozas<sup>2</sup>, and V.E. Odum<sup>3</sup>. The Ecosystems Center, Marine Biological Laboratory, Woods Hole<sup>1</sup>, Waterways Experiment Station, Vicksburg, Miss.<sup>2</sup> and the University of Virginia<sup>3</sup>. AN ANALYSIS OF THE SELECTION OF MARSH SURFACE HABITAT BY FISHES IN A TIDAL FRESHWATER MARSH.
- 0950 Orson, R. A. and B. Howes. Center for Coastal and Environmental Studies, Rutgers University, New Brunswick, New Jersey 08903 and Woods Hole Oceanographic Institution, Woods Hole, MA 02543 BRACKISH INTRUSION AND WETLAND DEVELOPMENT AT WAQUOIT BAY, CAPE COD, MASSACHUSETTS.
- 1010 Break. Micah 4:4
- 1030 Barr, B. V., Massachusetts Coastal Zone Management, Boston, Massachusetts. ENVIRONMENTAL IMPACTS OF SMALL DOCKS AND PIERS: STATE OF THE ART RESEARCH NEEDS.
- \*1050 Colarusso, P. D., Environmental Sciences Program, University of Massachusetts, Boston, MA 02125 BENZO(A)PYRENE METABOLISM BY THE GREEN CRAB, CARCINUS MAENAS
- \*1110 Foreman, K. H. Boston University Marine Program, Marine Biological Laboratory, Woods Hole, MA. THE RELATIVE IMPORTANCE OF PREDATION AND RESOURCES IN REGULATING A SALT MARSH MEIOBENTHIC COMMUNITY.
- 1130 Baillie, P. W. and C. Yarish, Marine and Freshwater Research Service, Guilford, CT and University of Connecticut, Stamford, CT EFFECTS OF INCREASED TIDAL FLUSHING IN AN IMPOUNDED ESTUARY.
- 1150-1330 Lunch. Proverbs 15:17
- 1230-1330 Poster Session. Swope Center.  
Look here, upon this picture, and on this...Shakespeare, Hamlet.
- List, J. T., Manager, Wells National Estuarine Research Reserve, Wells, Maine. WELLS NATIONAL ESTUARINE RESEARCH RESERVE.
- Roman, C. T.<sup>1</sup>, K. W. Able<sup>2</sup>, K. L. Heck<sup>3</sup>, M. P. Fahay<sup>4</sup>, W. Portnoy<sup>5</sup>, and M. A. Lazzari<sup>1</sup>.  
<sup>1</sup>NPS Cooperative Research Unit, Rutgers, University, New Brunswick, NJ, <sup>2</sup>Center for Coastal and Environmental Studies, Rutgers University, <sup>3</sup>Dauphin Is. Sea Lab, AL, <sup>4</sup>NMFS, Sandy Hook, NJ, <sup>5</sup>NPS, So. Wellfleet, MA. HABITAT ECOLOGY OF NAUSET MARSH (CAPE COD NATIONAL SEASHORE).
- Rhodes, K. S., University of Connecticut, Sea Grant, 670 Wintergreen Ave., Harden, CT. 06514. THE LONG ISLAND SOUND STUDY, AN OVERVIEW.

Paper Session II. The sun reflecting upon the mud of strands and shores...

Jeremy Taylor

- 1330 Lyons, W. B., M. E. Hines and H. E. Gaudette, Institute for the Study of Earth, Oceans and Space, and the Department of Earth Science, University of New Hampshire, Durham, NH. A TALE OF THREE ESTUARIES: QUALITATIVE EVALUATION OF BIOGEOCHEMICAL PROCESS IN ORGANIC RICH SEDIMENTS.
- 1350 Michener, R. H., M. I. Scranton and P. C. Novelli, Marine Sciences Research Center, State University of New York at Stony Brook, Stony Brook, New York. HYDROGEN VARIATIONS WITHIN THE ANOXIC SEDIMENTS OF AN ESTUARY.
- \*1410 Banta, G. T., Boston University Marine Program, Marine Biological Laboratory, Woods Hole, MA. 02543. EXPERIMENTAL STUDIES ON THE EFFECTS OF BENTHIC MACROFAUNA ON AEROBIC AND ANAEROBIC MICROBIAL PROCESSES IN MARINE SEDIMENTS.
- 1430 Giblin, A. E., G. Banta, J. Tucker, and J. E. Hobbie, Ecosystems Center, MBL, Woods Hole, MA, 02543. A COMPARISON OF LABORATORY AND IN-SITU MEASUREMENTS OF SULFATE REDUCTION AND ACETATE TURNOVER ON SALTMARSH SEDIMENTS.
- 1450 Break. II Samuel 23:15
- \*1510 Costa, J. E., Boston University Marine Program, Marine Biological Laboratory, Woods Hole, MA. DISTRIBUTION, PRODUCTION, AND HISTORICAL CHANGES OF EELGRASS (*Zostera marina* L.) IN BUZZARDS BAY.
- 1530 Buchsbaum, R.<sup>1</sup>, F. T. Short<sup>2</sup>, and D. P. Cheney<sup>3</sup>. <sup>1</sup>Mass. Audubon Soc., Gloucester, MA.; <sup>2</sup>Jackson Estuarine Lab., UNH, Durham, NH; and <sup>3</sup>Northeastern Univ. Boston, MA. PHENOLIC-NITROGEN INTERACTIONS IN EELGRASS, A LINK BETWEEN GROWTH RATE AND WASTING DISEASE.
- \*1550 Pyott, C. P., Dept. of Earth Sciences, University of New Hampshire, Durham, New Hampshire, 03824. HYDROLOGIC AND NUTRIENT FLUX COMPARISON OF SPARTINA PATENS AND PANNE ZONES OF BASS BEACH MARSH, NORTH HAMPTON, NEW HAMPSHIRE.
- 1610 Pregnall, A. M. and N. C. Roth, Biology Department, Vassar College, Poughkeepsie, NY 12601 NITRATE REDUCTASE ACTIVITY IN ZOSTERA MARINA (EELGRASS).
- 1630 Business meeting. President Loder presiding presidentially. Samuel 22:2
- 1900 Banquet. Swope Center.  
The Ketchum Prize will be awarded after the banquet.  
Proverbs 22:6
- After the award, Jay Moore, sage, raconteur, and Official Historian of NEERS, will deliver an address entitled "Behavioral evolution of estuarine research societies in New England."
- Faith in the tale is old, but its fame is everlasting. Virgil

Saturday, 23 April

Paper Session III. One foot in sea and one on shore. Shakespeare, Much ado about nothing.

- 0900 Ruber, E., A. Gilbert, E. Cummings and G. Gillis, Biology Department, Northeastern University, Boston, MA. MICROCRUSTACEA OF THE ARTIFICIAL COASTAL IMPOUNDMENTS OF NEW JERSEY AND THE NATURAL SALT MARSH POOLS OF MASSACHUSETTS.
- 0920 Burn, P. R., Dept. of Biology, Suffolk University, Boston, MA. THE GENUS DINOPHILUS (ANNELIDA:POLYCHAETA) IN NEW ENGLAND
- 0940 Dean, D., Dept. of Zoology, University of Maine, Darling Center, Walpole, Maine. MYXICOLA INFUNDIBULUM, ONE OF THE MOST PRIZED RESOURCES IN OUR NORTHERN ESTUARIES.
- 1000 Jacobson, S., Cooperative Extension, University of Massachusetts, Boston, MA., and P. Kent, Town Hall, Ipswich, MA. SOFT SHELL CLAM (MYA ARENARIA) CULTURE: REPORT OF PROGRESS.
- 1020 Break. Daniel 12:4
- 1040 Kuzirian, A. M., Marine Biological Lab., Woods Hole, MA, J. P. Bidwell, Howard Hughes Medical Inst., Woods Hole Oceanographic Inst., and S. M. Gallager, Biology Dept., Woods Hole Oceanographic Inst., Woods Hole, MA. MOLLUSCAN MINERALIZATION IS DEPENDENT ON STRONTIUM.
- 1100 Murray, S. and J. W. Sowles, Dept. of Environmental Protection, State of Maine, Augusta, Maine 04333 MARINE ENVIRONMENTAL MONITORING PROGRAM - PRELIMINARY RESULTS FROM BOOTHBAY HARBOR, MAINE.
- 1120 Edwards, D. C., and M. Fregeau, Dept. of Zool., University of Massachusetts, Amherst, MA. MOLLUSCAN ASSEMBLAGES OF INLAND, TIDAL BLUE HOLES, SAN SALVADOR ISLAND, BAHAMAS.
- 1140 Boehm, P. D., S. T. Freitas, E. A. Crecelius, and R. E. Hillman. Batelle Ocean Sciences, Duxbury, MA. TRACE ORGANIC AND METAL DISTRIBUTIONS IN BIVALVES AND SEDIMENTS FROM THE ATLANTIC AND PACIFIC U. S. COASTS.
- Noonish Benediction. Stand not upon the order of your going, But go at once. Shakespeare, Macbeth.
- 1330-1600 Tour of Waquoit Bay, leave from Woods Hole.