

NEW HAMPSHIRE SEA GRANT
COLLEGE PROGRAM
2010 NSGO REVIEW

Mike Liffmann

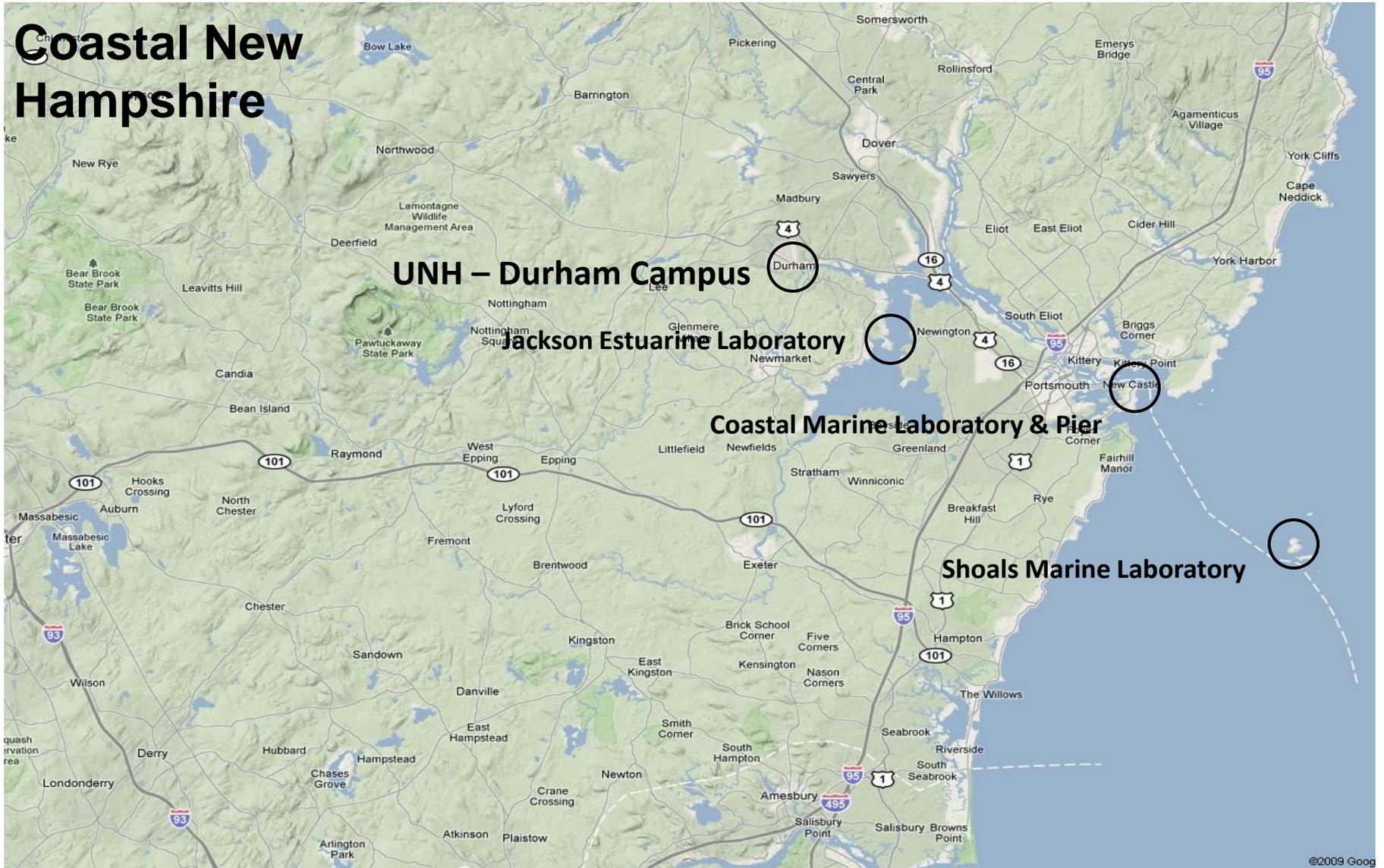
Coastal New Hampshire

UNH – Durham Campus

Jackson Estuarine Laboratory

Coastal Marine Laboratory & Pier

Shoals Marine Laboratory



NH Program Management

NH SG

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- Management Team (NH SG Executive Committee)
 - ▣ Director, Jonathan (Jon) Pennock (.40 FTE*)
 - ▣ Asst. Dir. (Research), Stephen Jones (.25 FTE*)
 - ▣ Asst. Dir. (Education), Mark Wiley (.25 FTE*)
 - ▣ Asst. Dir. (Communications), Steve Adams (.42 FTE*)
 - ▣ Asst. Dir. (Extension), Ken LaValley (.25 FTE*)
 - ▣ Fiscal Administrator- Lisa Scigliano**

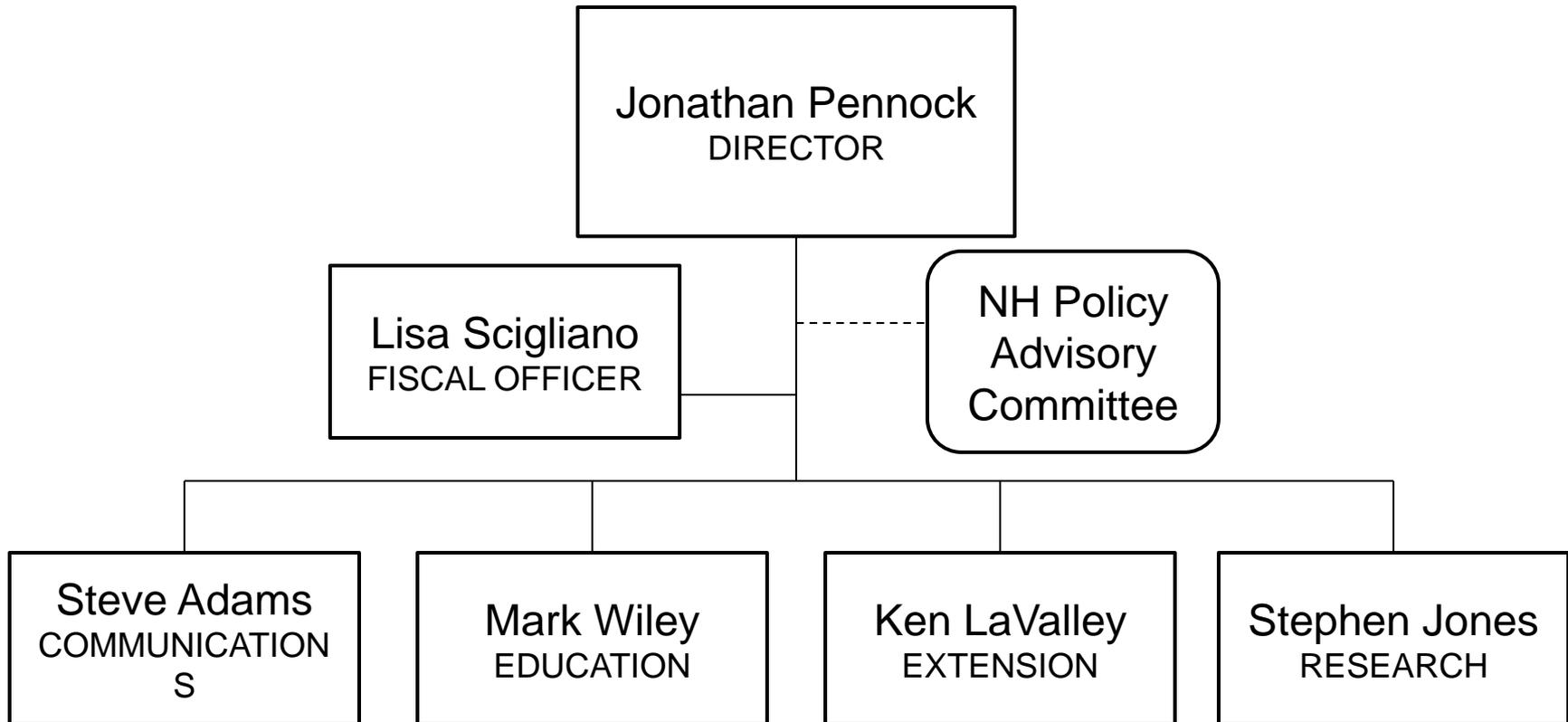
* FTE Committed to Program Management

** FTE Variable as Required; Supported by UNH

NH Organizational Chart

NH SG

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NH Sea Grant Extension Program

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- Now led by Ken LaValley
- A collaboration between UNH's Cooperative Extension and Sea Grant – Three core NHSG plus six UNHCE extension specialists supported by five additional support staff *
- Coastal communities, commercial fisheries, aquaculture, coastal ecosystems, marine literacy

* Two New/Replacement NHSG Extension Specialists Expected in 2010-11

NH Policy Advisory Committee

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- Policy Advisory Committee comprised of 20-22 members representing broad cross-section of constituencies
- Roles – Provide advice and guidance for all aspects of the management and operation of the program and participate in the development of the program's strategic plan, making sure that it reflects the needs of the constituencies they represent.

NH Policy Advisory Committee

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- **John Annala** Gulf of Maine Research Institute
- **Andy Armstrong** NOAA/UNH Joint Hydrographic Center
- **David Bartlett** UNH Institute for the Study of Earth Oceans & Space; NH Space Grant
- **Bob Campbell** Yankee Fishermen's Cooperative
- **Brian Fitzgerald** UNH Marine Docent
- **Richard Fralick** Professor Emeritus, PSU
- **Ellen Goethel** Marine Educator
- **Jennifer Hunter** Piscataqua Region Estuaries Partnership
- **Peter Kinner** Normandeau Associates
- **Richard Langan** NOAA/UNH CICEET
- **Steve Loos** Great Bay Coast Watch
- **Allison McLean** Public Service of New Hampshire
- **Katherine Mills** Great Bay National Estuarine Research Reserve
- **Betsy Nicholson** NOAA Regional Coastal Program Specialist, CSC
- **Mark Okrant** Plymouth State University
- **Linda Schier** Acton Wakefield Watersheds Alliance
- **Bonnie Spinazzola** Atlantic Offshore Lobstermen's Association
- **Nancy Thompson** Northeast Fisheries Science Center
- **Peter Whelan** Fishing/Charter Industry
- **Theresa Walker** Rockingham Planning Commission

Institutional Setting

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- NH Sea Grant is h/q at UNH in Durham
- Reports directly to Senior Vice-Provost for Research, Jan Nisbet
- Jon also Director of the UNH Marine Program and Jackson Estuarine Lab which strengthens support for SG
- “NHSG is well integrated and supported by the university leadership.” (PAT 2006)

NH Sea Grant Plan – Estimated ^{NH SG} 4-yr Budget Allocation by focus area

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National Focus Area	Focus Area from Program Strategic Plan	Estimated Level of Effort of Federal, Match and Leveraged (%)	Estimated Level of Effort of Federal and Match (\$)	Estimated Level of Effort of Leveraged (\$)
Safe & Sustainable Seafood Supply	SSSS	33	\$2.2M	Not yet identified
Sustainable Coastal Development	SCD	23	1.5M	*
Healthy Coastal Ecosystems	HCE.	30	2.0M	*
Hazard Resiliency in Coastal Communities	HRCC	14	.9M	*
Total		100	\$6.6M	*

Perf. Measure/Outcome Highlights

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- Communities that adopt/revise stormwater regs;
- Fishermen choosing soft-bottom gear to reduce bycatch as it becomes available;
- New info to predict the timing and extent of shellfish contamination by pathogenic vibrio species;
- Citizens reporting increased knowledge of coastal processes;
- Amount of derelict fishing gear collected and recycled.

Major Partners

NH SG

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- Rockingham Planning Commission, NH Commercial Fishermen's Association, Yankee Fisherman's Co-OP, Piscataqua Region Estuaries Partnership, NHDES, NH Port Authority and USCG
- NOAA--NEFMC, NMFS, CSC, ASMFC, UNH/NOAA CiCEET, Aquaculture Center, Northeast Consortium, NERACOOS, Great Bay NERR
- Northeast Sea Grant Consortium, RARGOM, GoMCME, NROC
- Seacoast Science Center, Great Bay Discovery Center, New England Ocean Science Education Collaboration

2008 / 2009 Network Activities

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- Extensive National Sea Grant Leadership
 - Pennock – SGA Board & President-Elect; NSGCP Strategic Planning Steering Committee
 - LaValley – Leadership in SSSS
 - Peterson – Active in climate change
 - Wiley – Incoming Chair of SGEN
- Active role regional matters and leadership in NE projects and meetings

2010 RFP Process

NH SG

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- Priorities for 2010-12 proposals were developed based on 2007-11 Strategic Plan and in consultation with NHSG PAC
- Priorities – Fisheries & aquaculture, ecosystem health and coastal communities;
- 26 pre-proposals reviewed by technical panel and Executive Committee; 14 recommended for further consideration, 15 received; 3-7 mail reviews per proposal
- Seven-person Technical Advisory Proposal panel recommended funding of six projects.
- Also committed to partial support of two regional proposals

2008 / 2009 Program Metrics – Awards and Honors^{NH SG}

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- Steve Jones – Gulf of Maine Council for the Marine Environment Distinguished Service Award
- Shane Bradt – Special Achievement Award from the Environmental Systems Research Institute for his Geospatial Technologies Training Institute
- Rollie Barnaby – Winner, Northeast Sea Grant Network Outstanding Achievement Award

2008 / 2009 Highlights of Metrics

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- NIMS 2008—Total indiv. 49; 10.95 FTEs SG and 14.83 FTEs match and non-SG
- # and amount of PD projects—13 and \$~64K
- Leveraged funds—19 projects and ~\$1.8M
- 121 partnerships

2008 / 2009 Program Impacts

NHSG

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- **NH Sea Grant staff assist 3 NH Coastal Communities in developing plans to protect key natural resources and open space.**
Impact: Improved plans for managing growth with conservation of key natural resources.
- **NH Sea Grant aids black sea bass aquaculture:** A Sea Grant-supported researcher at the University of New Hampshire learned how to prevent or at least delay the process of sex change in black sea bass. **Impact:** Growers, including GreatBay Aquafarms in Portsmouth, N.H., can now maintain their broodstock for longer periods of time.

2008 / 2009 Program Impacts (cont.)

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- **Sea Grant led research develops** newly designed grid systems on shrimp trawls reduced Gulf of Maine shrimp count(average size increased) by 15 to 20 count/pound. **Impacts:** NHSG fisheries extension staff worked with NH fishermen to employ this gear with the following results: (a) The gear was utilized by 4 commercial shrimp fishermen who switched from the more traditional shrimp harvesting nets. (b) A newly-developed topless shrimp trawl reduced Gulf of Maine herring by-catch by 90% without loss of shrimp. (c) A rope separator haddock trawl was completed that has reduced cod by-catch by 60% with only a 16% loss of haddock. It also eliminated nearly all other species including flounders, lobsters, skates and dogfish.

2008 / 2009 Program Impacts (cont.)

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- **NHSG aquaculture project** will help with the eventual development of seaweed culture systems and their integration into land-based aquaculture operations. **Impact:** This will aid in reducing the mass of inorganic nitrogen (N) and phosphorus (P) that are discharged into coastal waters, thereby decreasing the potential for the outbreak of blooms of unattractive and sometimes noxious algae.
- **NH Sea Grant advances understanding of communications networks:** Sea Grant-supported researchers at the University of New Hampshire and the Virginia Institute of Marine Science how different marine-related individuals and organizations share information. **Impact:** Regulatory groups in the U.S. and Canada are using the findings to improve their regulatory efforts.

2008 / 2009 Research Accomplishments

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- **NH Sea Grant draws attention to a major source of PAHs in the environment:** Sea Grant-supported researchers at the University of New Hampshire have proven that fresh pavement sealcoat, particularly coal-tar based sealcoat, contributes significant amounts of polyaromatic hydrocarbons into waterways via stormwater runoff. **Impact:** Both the EPA and the sealcoat industry are using these findings in an effort to mitigate the problem.
- **NH Sea Grant refines knowledge of lobster mating:** Sea Grant-supported studies in New England by a University of New Hampshire zoologist are providing new insight into sperm availability in the American lobster population. **Impact:** The findings are impacting stock management decisions and have led to an additional, industry-supported study in Buzzards Bay.

Best Management Practices

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- Established partnerships with six other federal agencies that leveraged SG core investment in outreach six-fold;
- Training provided to marine docents;
- Tech 797 (interdisciplinary) capstone course has made a significant impact on the students taking the course;
- Great Bay Coast Watch volunteer monitoring program.