

The following are publications of data from collaborative research projects funded by the Northeast Consortium. The list includes articles in scientific (e.g. peer reviewed) literature, not newspaper articles, workshop and conference proceedings, etc. All interim and final reports and other project information may be accessed at: <http://www.northeastconsortium.org/projects.shtml> or by contacting Rachel Gallant Feeney, Northeast Consortium Fisheries Specialist at (603) 862-2276 or [rachel.feeney@unh.edu](mailto:rachel.feeney@unh.edu).

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## Groundfish

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<b>Title:</b> <i>A collaborative program to reduce bycatch and discard in Gulf of Maine otter trawl fisheries: effect of composite mesh codends on trawl selectivity</i>	<b>Project Leader:</b> Chris Glass (Manomet)	<b>Year Funded:</b> 2000
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Glass, C.W., B. Sarno, G. D. Morris, and T. Feehan, 2003. The use of composite mesh codends to reduce bycatch and discard in North Atlantic fisheries. *ICES CM* 2003, Z:05.

<b>Title:</b> <i>Development of a hydrodynamic cover for conducting experiments on selectivity of trawl codends onboard fishing vessels</i>	<b>Project Leader:</b> Pingguo He (UNH)	<b>Year Funded:</b> 2001 PD
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He, P., 2007. Selectivity of large mesh trawl codends in the Gulf of Maine: Comparison of square and diamond mesh. *Fisheries Research*, 83, 44-59.

<b>Title:</b> <i>Identification of life history parameters for two exploited skate species (Amblyraja radiata and Malacoraja senta) in the Gulf of Maine: strategies for fisheries management</i>	<b>Project Leader:</b> Paul Tsang (UNH)	<b>Year Funded:</b> 2001
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Sulikowski, J. A., J. Kneebone, S. Elzey, P. Danley, W. H. Howell, and P. C. W. Tsang, 2005. The reproductive cycle of the thorny skate, *Amblyraja radiata*, in the Gulf of Maine. *Fisheries Bulletin*, 103(3):536-543.

Sulikowski, J. A., J. Kneebone, S. Elzey, P. Danley, W. H. Howell, and P. C. W. Tsang, 2005. Age and growth estimates of the thorny skate, *Amblyraja radiata*, in the Gulf of Maine. *Fisheries Bulletin*, 3(1):161-168.

<b>Title:</b> <i>Maine-New Hampshire inshore trawl survey</i>	<b>Project Leader:</b> Sally Sherman (MEDMR)	<b>Year Funded:</b> 2000, 2002, 2005
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Chen, Y., S. Sherman, C. Wilson, J. Sowles, and M. Kaniawa, 2005. A comparison of two fishery-independent survey programs in characterizing population structure of American lobster, *Homarus americanus*, in the Gulf of Maine. *Fisheries Bulletin*, 104:247-255.

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<b>Title:</b> <i>Reducing cod bycatch in flounder gillnets to reduce cod catch in the Gulf of Maine</i>	<b>Project Leader:</b> Pingguo He (UNH)	<b>Year Funded:</b> 2002
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He, Pingguo, 2006. Effect of the headline height of gillnets on species selectivity in the Gulf of Maine. *Fisheries Research*, 78, 252-256.

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<b>Title:</b> <i>Trophic ecology of Atlantic cod: insights from tri-monthly, localized scales of sampling</i>	<b>Project Leader:</b> Frank Almeida (NMFS)	<b>Year Funded:</b> 2001, 2002
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Smith, B. E., T. L. Ligenza, F. P. Almeida, and J. S. Link, 2007. The trophic ecology of Atlantic cod: insights from tri-monthly, localized scales of sampling. *Journal of Fish Biology*, 71, 749-762.

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<b>Title:</b> <i>Using genetic techniques to discriminate Atlantic cod spawning stocks in U.S. waters: A pilot project</i>	<b>Project Leader:</b> Dave Berlinsky (UNH)	<b>Year Funded:</b> 2003 - 2005
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Wirgin, I, A. I. Kovach, L. Maceda, N. K. Roy, J. Waldman, and D. L. Berlinsky, 2007. Stock identification of Atlantic cod in U.S. waters using microsatellite and single nucleotide polymorphism (SNP) DNA analyses. *Transactions of the American Fisheries Society*, 136:375-391.

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<b>Title:</b> <i>Yellowtail Flounder Tagging Study</i>	<b>Project Leader:</b> Steve Cadrin (NMFS)	<b>Year Funded:</b> 2003 - 2005
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Cadrin, S. X. and J. Moser, 2006. Partitioning On-bottom and Off-bottom Behavior: A case study with yellowtail flounder off New England. *ICES CM 2006/Q:14*.

Cadrin, S. X. and A. D. Westwood, 2004. The use of electronic tags to study fish movement: A case study with yellowtail flounder off New England. *ICES CM 2004/K:81* (available online <http://www.ices.dk/products/CMdocs/2004/K/K8104.pdf>).

Cadrin, S., A. Westwood, L. Alade, N. Keith, R. Rountree, D. Martins, R. Kessler, D. Jones, A. Valliere, J. King, J. Boardman, H. Stone and New England Fishermen, 2004. Movement of yellowtail flounder: A cooperative tagging study. *Ninth Flatfish Biology Conference*, NEFSC Ref. Doc. 04-13, p. 13 (available online <http://www.nefsc.noaa.gov/nefsc/publications/crd/crd0413>).

Recksiek, C.W., G. Fischer, H.T. Rossby, S.X. Cadrin, and P. Kasturi, 2006. Development and application of 'FRAFOS' tags for studying fish movement. *ICES C.M. 2006/Q*.

Tallack, S., Rago, P., T. Brawn, S. Cadrin, J. Hoey, and L. Taylor Singer, 2005. Proceedings of a workshop to review and evaluate the design and utility of fish mark - recapture projects in the northeastern United States. NEFSC Ref. Doc. 05-02 (available online <http://www.nefsc.noaa.gov/nefsc/publications/crd/crd0502>).

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## Habitat/Ecosystem/Monitoring

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**Title:**  
*Comparison of environmental contaminants on Georges Bank and Stellwagen Bank*

**Project Leader:**  
Emily Monosson  
(Mount Holyoke)

**Year Funded:**  
2001

Monosson, E. and D. Lincoln, 2006. Comparison of PCBs, organochlorine pesticides, and trace metals in cod liver from Georges Bank and Stellwagen Bank, USA and Canada. *Marine Pollution Bulletin*, 52, 572-597.

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**Title:**  
*Intensive study of the Western Gulf of Maine Closure Area*

**Project Leader:**  
Ray Grizzle  
(UNH)

**Year Funded:**  
2002

Malik, M. and L.A. Mayer. 2007. Investigations of bottom fishing impacts on benthic structure using multibeam sonar, sidescan sonar and video. *ICES Journal of Marine Science* 64: 1053-1065.

Malik, M.A. 2005. Identification of bottom fishing impacted areas using multibeam sonar and videography. MS thesis, Univ. of New Hampshire, Durham NH.

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**Title:**  
*eMOLT: Environmental monitors on lobster traps phases 1 – 6: temperature, salinity, data management, drifters, real-time temperature, and bottom currents*

**Project Leader:**  
James Manning  
(NMFS)

**Year Funded:**  
2000 - 2002

Manning, J. P., D. J. McGillicuddy Jr., N. R. Pettigrew, J. H. Churchill, and L. S. Incze, 2009. Drifter observations of Gulf of Maine Coastal Current. *Continental Shelf Research*, 29, p.835-845.

Manning, J. and E. Pelletier, 2009. Environmental monitors on lobster traps (eMOLT): Long-term observations of New England's bottom-water temperatures. *Journal of Operational Oceanography*, 2(1), p.25-33.

Worden, M. K., C. M. Clark, M. Conaway, and S. A. Qadri, 2006. Temperature dependence of cardiac performance in the lobster *Homarus americanus*, *Journal of Experimental Biology*, 209, 1024-1034.

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**Title:**  
*Intensive study of the Western Gulf of Maine Closure Area*

**Project Leader:**  
Ray Grizzle  
(UNH)

**Year Funded:**  
2002

Malik, M.A. and L. Mayer., 2004. Jeffreys Ledge Survey, December 2002-January 2003. Center for Coastal Ocean Mapping, University of New Hampshire, Durham, NH (published on the web @ [http://woodshole.er.usgs.gov/project-pages/coastal\\_mass/html/jeffledge.html](http://woodshole.er.usgs.gov/project-pages/coastal_mass/html/jeffledge.html)).

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## Herring

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**Title:** *Stock intermixing and migration of Atlantic herring (Culpea harengus) in the Gulf of Maine, Georges Bank, and Southern New England*

**Project Leader:** Kohl Kanwit (MEDMR)

**Year Funded:** 2001PD, 2004

Kanwit, K. Stock intermixing and movement of Atlantic herring (*Clupea harengus*) in the Gulf of Maine and Southern New England. *Journal of the North Atlantic Fisheries Organization*. In review.

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## Lobster

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**Title:** *Implementation of an automated, comprehensive monitoring program for the Atlantic offshore lobster fishery*

**Project Leader:** Win Watson (UNH)

**Year Funded:** 2001, 2002

Little, S. A. and W. H. Watson III, 2003. A comparison of the size at maturity of female American lobsters between an estuarine population and a nearby coastal population. *Journal of Shellfish Research*, 22:857-864.

Little, S. A. and W. H. Watson III, 2005. Differences in the size at maturity of female American lobsters, *Homarus americanus*, captured throughout the range of the lobster fishery. *Journal of Crustacean Biology*, 25(4):585-592.

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**Title:** *Inshore/offshore patterns of lobster larvae and postlarvae spatial relationships*

**Project Leader:** Lew Incze (USM/GMRI)

**Year Funded:** 2001

Incze, L. S., N. Wolff, and R. A. Wahle, 2003. Can scientific observations of early life stages be scaled up to the level of a fished population? A case study using *Homarus americanus*. *Fisheries Research*, 65, 33-46.

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**Title:** *Mapping spawning and hatching grounds of the American lobster*

**Project Leader:** Diane Cowan (The Lobster Conservancy)

**Year Funded:** 2002, 2004

Cowan, D. F., 2003. Mapping the movements of egg-bearing female lobsters and bottom temperatures. *Prototype Biophysical Maps of the Gulf of Maine*, E. Richert and L. Incze, eds. Island Institute, pp. 26-28.

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## Red Crab

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**Title:** *Developing stock assessment methods and evaluating beam-trawls in stock assessment surveys of the New England deep sea red crab fishery*

**Project Leader:** Rick Wahle (Bigelow)

**Year Funded:** 2001, 2002 PD Award, 2003

Wahle, R. A., C. Bergeron, A. Chute, L. Jacobson and Y. Chen, 2008. The New England Deep Sea Red Crab Population Before and After the Onset of Harvesting. *ICES Journal of Marine Sciences* 65 doi:10.1093/icesjms/fsn058.

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## Sea Cucumber

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<b>Title:</b> <i>A preliminary study of the Maine Sea Cucumber (Cucumaria frondosa) fishery</i>	<b>Project Leader:</b> Yong Chen (UMaine)	<b>Year Funded:</b> 2002 PD Award, 2003
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Kirshenbaum, S., S. Feindel, and Y. Chen, 2006. A study to evaluate methods of tagging Maine sea cucumber (*Cucumaria frondosa*). *Fishery Bulletin* 104:229-302.

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## Sea Urchin

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<b>Title:</b> <i>A simulation framework for developing optimal sampling strategies for the Maine sea urchin stock</i>	<b>Project Leader:</b> Yong Chen (UMaine)	<b>Year Funded:</b> 2001 PD Award
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Kanaiwa, M., Y. Chen, and M. Hunter, 2005. An evaluation of a complex length-based fisheries stock assessment model for the green sea urchin fishery in Maine, USA. *Fisheries Research* 74:96-115.

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## Scallops

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<b>Title:</b> <i>Maine scallop fishery: Monitoring and enhancement</i>	<b>Project Leader:</b> Dan Schick (MEDMR)	<b>Year Funded:</b> 2001
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Feindel, S., Developing a coastal Maine sea scallop enhancement program, National Shellfisheries association (NSA) meeting, Mystic, CT, April 16, 2002. Abstract reprinted in *Journal of Shellfish Research*.

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## Shrimp

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<b>Title:</b> <i>Modifying the Nordmore grate rigging to reduce fin fish discards in shrimp trawls in the Gulf of Maine</i>	<b>Project Leader:</b> Pingguo He (UNH)	<b>Year Funded:</b> 2004PD, 2005
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He, P. and V. Balzano. Reducing small shrimps in the Gulf of Maine pink shrimp fishery with a new size-sorting grid system. *ICES Journal of Marine Science* (submitted 11/06).

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<b>Title:</b> <i>Reducing seabed contact of trawling: Design, model test, and fishing trials of a semi-pelagic shrimp trawl for the pink shrimp fishery</i>	<b>Project Leader:</b> Pingguo He (UNH)	<b>Year Funded:</b> 2001, 2002
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He, P. & H. DeLouche, 2004. Reducing seabed contact of trawling: semi-pelagic shrimp trawling experiments in the Gulf of Maine and in Newfoundland. *ICES FTFB Working Group*, Gdynia, Poland.

He, P., P. Winger, R. Fonteyne, M. Pol, P. MacMullen, S. Løkkeborg, B. van Marlen, T. Moth-Poulsen, K. Zachariassen, A. Sala, W. Thiele, U. Hansen, E. Grimaldo, A. Revill, and H. Polet, 2004. Mitigation measures against seabed impacts of mobile fishing gears. *ICES/FAO Working Group on Fishing Technology and Fish Behavior*. Gdynia, Poland. April, 2004 (Available online: [http://www.imr.no/ftfb/He%20at%20al%20\(File%20\).pdf](http://www.imr.no/ftfb/He%20at%20al%20(File%20).pdf)).

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## Socioeconomics/Outreach/Education

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<b>Title:</b>	<b>Project Leader:</b>	<b>Year Funded:</b>
<i>An atlas based audit of fishing territories, local knowledge, and community participation in fisheries science and management</i>	Kevin St. Martin (Rutgers)	2001

St. Martin, K. and M. Hall-Arber, 2008. The Missing Layer: Geo-technologies, Communities, and Implications for Marine Spatial Planning. *Marine Policy* 32:779-786.

St. Martin, K. and M. Hall-Arber, 2008. Creating a Place for 'Community' in New England Fisheries. *Human Ecology Review* 15(2):161-170.

St. Martin, K., 2008. Mapping Community Use of Fisheries Resources in the U.S. Northeast. *Journal of Maps*. 2008:38-41.

St. Martin, K. and M. Hall-Arber, 2007. Environment and Development: (Re) Connecting Community and Commons in New England Fisheries. in *Connecting People, Participation and Place: Participatory Action Research Approaches and Methods*, S. Kindon, R. Pain & M. Kesby eds. Routledge, pp. 51-59.

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<b>Title:</b>	<b>Project Leader:</b>	<b>Year Funded:</b>
<i>Socio-economic impact assessment of the Northeast Consortium</i>	Robert Robertson (UNH)	2001

Hartley, T. W. and R. A. Anderson, 2009. Stakeholder collaboration in fisheries research: Integrating knowledge among fishing leaders and science partners in northern New England. *Society and Natural Resources*, 22:42-55.

Hartley, T. W. and R. A. Robertson, 2008. Cooperative Research Program Goals in New England: Perceptions of Active Commercial Fishermen. *Fisheries*, 33(11):551-559.

Hartley, T. W. and R. A. Robertson, 2006. Stakeholder engagement, cooperative fisheries research, and democratic science: The case of the Northeast Consortium. *Human Ecology Review*, 13(2):161-171.

Hartley, T. W. and R. A. Robertson, 2006. Emergence of multi-stakeholder driven cooperative research in the Northwest Atlantic: The case of the Northeast Consortium. *Marine Policy*, 30(5):580-592.

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