

# Northeast Consortium



## Collaborative Research Project Inventory 2000 - Present



**Northeast Consortium  
FY2000 Collaborative Research Projects**

1. H. Arnold Carr (Massachusetts Division Marine Fisheries), Susan Goldhor (Center for Applied Regional Studies), Mark Leach (F/V Sea Holly; Harwich, MA), Tom Luce (F/V Sea Winn; West Barnstable, MA), Vincent Manfredi (MADMF), Mike Pol (MADMF), Mark Simanski (MADMF), and the Cape Cod Commercial Hook Fishermen's Association; Project Title: *Improving the Selectivity and Utility of Demersal Hook Fishing*
2. Scott Gallagher (Woods Hole Oceanographic Institution), Cabell Davis (WHOI), Arnie DeMello (F/V Kathy Marie; New Bedford, MA); John Doran (F/V Amy Philbrick; Newington, MA), Alan Kuzirian (Marine Biological Laboratory; Woods Hole, MA), Grant Moore (F/V Direction; New Bedford, MA), John Quinlan (NOAA Fisheries Northeast Fisheries Science Center), Paul Rosonina (F/V Kathy Marie; New Bedford, MA) and Richard Taylor (Commercial Fisherman; Gloucester, MA); Project Title: *A New Role for the Commercial Fishing Fleet in Monitoring, Predicting and Managing Sea Scallop Resources*
3. Christopher Glass (Manomet Center for Conservation Sciences), Timothy Feehan (Manomet), Frank Mirarchi (F/V Christopher Andrew; Scituate, MA), Greg Morris (Manomet), Benedetta Sarno (Manomet), Russell Sherman (F/V Lady Jane; Gloucester, MA), and Proctor Wells (F/V Tenacious; Phippsburg, ME); Project Title: *A Collaborative Program to Reduce Bycatch and Discard in Gulf of Maine Otter Trawl Fisheries: Effect of Composite Mesh Codends on Trawl Selectivity*
4. Cliff Goudey (Massachusetts Institute of Technology) and Robert Kohl (F/V Glenna & Jacob; Marstons Mills, MA); Project Title: *Commercial Trials of Flexible Trawling Devices Including Soft Trawl*
5. Hunt Howell (University of New Hampshire), Vincent Balzano (F/V North Star; Portland, ME); Carl Bouchard (F/V Stormy Weather; Exeter, NH), Jim Ford (F/V Lisa Ann II; Newburyport, MA), David Goethel (F/V Ellen Diane; Hampton, NH), Frank Mirarchi (F/V Christopher Andrew; Scituate, MA), and Mike Morin (UNH); Project Title: *Determining Groundfish Species Movement Patterns in Closed Areas*
6. James Manning (NOAA Fisheries Northeast Fisheries Science Center), Bill Adler (Massachusetts Lobstermen's Association), David Casoni (MaLA), Clare Grindal (Downeast Lobstermen's Association), Bonnie Spinazzola (Atlantic Offshore Lobstermen's Association), Patrice McCarron (Gulf of Maine Lobster Foundation), David Sleeper (Spruce Head Fishermen's Cooperative), and Pat White (MeLA); Project Title: *Environmental Monitors on Lobster Traps (eMOLT)*
7. Allan Michael (ADM Associates; Magnolia, MA) and Bill Lee (F/V Ocean Reporter; Rockport, MA); Project Title: *Development of a Net to Reduce Bycatch of Cod in the Flounder Fishery*
8. Donald Perkins, Jr. (Gulf of Maine Research Institute), M. Cameron McLellan (F/V Adventurer; New Castle, ME), Shale Rosen (GMRI), Joel Wezowicz (GMRI), and Phillip Yund (University of Maine); Project Title: *Groundfishing Vessel Survey of Herring Spawning Grounds*
9. Michael Pol (Massachusetts Division of Marine Fisheries), H. Arnold Carr (MADMF), and Bob MacKinnon (Massachusetts Gillnetters' Association); Project Title: *Testing of Low-Profile Low Cod-Bycatch Gillnets*
10. Michael Pol (Massachusetts Division of Marine Fisheries), H. Arnold Carr (MADMF), and Luis Ribas (Barrosa Fishing Corp.; Provincetown, MA); Project Title: *Groundfish Trawl nets designed to Reduce the Bycatch of Cod*
11. John Sowles (Maine Department of Marine Resources), Yong Chen (University of Maine), Jeff Flagg (Portland Trawler Supply; Brownfield, ME), Sam Galli (F/V Tara Lynn; Portland, ME), Douglas Grout (New Hampshire Department of Fish and Game), Linda Mercer (MEDMR), Don Perkins (Gulf of Maine Research Institute), Curt Rice (F/V Robert Michael; Portland, ME), Dan Schick (MEDMR), Sally Sherman (MEDMR), Keri Stepanek (MEDMR), and Robert Tetrault (T/R Fish, Inc.; Portland, ME); Project Title: *Gulf of Maine Inshore Trawl Survey*

**FY2000 Outreach and Education in Support of Collaborative Research**

1. Gulf of Maine Research Institute Development Corporation (Portland, ME); Contact: Don Perkins
2. Massachusetts Fishermen's Partnership (Gloucester, Hyannis, and New Bedford, MA); Contact: David Bergeron
3. Northwest Atlantic Marine Alliance (Saco, ME); Contact: Craig Pendleton

**Northeast Consortium  
FY2001 Collaborative Research Projects**

1. H. Arnold Carr (Massachusetts Division of Marine Fisheries), William Amaru (F/V Joanne A II; S. Orleans, MA), Trevor Daley (Commercial Fisherman), Michael Pol (MADMF), Bob Marcella (Commercial Fisherman), and Russell Sherman (F/V Lady Jane; Gloucester, MA); Project Title: *Fishermen Assisting Gear Technologists and Scientists*
2. Michele Dionne (Wells National Estuarine Research Reserve), Marshall Alexander (F/V Dee Dee Mae II; Biddeford, ME), Rich MacKenzie (WNERR), Jeremy Miller (WNERR), Vincent Balzano (F/V North Star; Portland, ME), Jeff Reed (F/V Full Circle One), and Kenneth Young, Jr. (F/V Judy Marie); Project Title: *Relationship between Substrate, Humans, and Ecology of Juvenile Fish in the Bigelow Bight and Adjacent Estuaries*
3. Jonathan Grabowski (Gulf of Maine Research Institute), Erika Clesceri (GMRI), Sherman Kinghorne (Grand Manan Fishermen's Association; New Brunswick, Canada), Mike Myrick (F/V Shannon Rose; Cushing, ME), Phil Poland (F/V Charlene Gail; Cushing, ME), Laura Taylor Singer (GMRI), Matthew Weber (F/V Griffin; Monhegan Island, ME), Phil Yund (University of New England); Carl Wilson (Maine Dept. of Marine Resources) Project Title: *Are We Using Herring to Farm Lobsters?: Effect of Herring Bait on Lobster Growth, and Fate of Discarded Bait in Benthic Communities*
4. Pingguo He (University of New Hampshire) and Bart McNeel (F/V Aaron and Melissa II; Westbrook, ME); Project Title: *Design and Test of a Double Grid Device to Reduce Cod Bycatch in Flatfish Trawls*
5. Pingguo He (University of New Hampshire), George Littlefield (F/V Lady Regena; Kingston, NH), and Bart McNeel (F/V Aaron and Melissa II; Portland, ME); Project Title: *Reducing seabed contact of trawling: Design and model test of a semi-pelagic shrimp trawl for the pink shrimp fishery*
6. Jonathan Howland (Woods Hole Oceanographic Institution), Arnie DeMello (F/V Kathy Marie; New Bedford, MA); Scott Gallager (WHOI), Harlyn Halvorson (University of Massachusetts-Boston), Paul Rago (NOAA Fisheries Northeast Fisheries Science Center), Paul Rosonia (F/V Kathy Marie; New Bedford, MA); Hanument Singh (WHOI), Ron Smolowitz (Fisheries Survival Fund), Richard Taylor (Commercial Fisherman; Gloucester, MA), and Page Valentine (USGS); Project Title: *Non-Invasive, Real Time Assessment of Sea Scallop Abundance and Habitat*
7. Lewis Incze (Bigelow Laboratory for Ocean Sciences), Mathew Thomson (F/V Striker; Monhegan Island, ME), and Proctor Wells (F/V Tenacious; Phippsburg, ME); Project Title: *Inshore/Offshore Patterns of Lobster larvae and Postlarvae Spatial Relationships*
8. Theodore Ligenza (F/V Riena Marie; South Chatham, MA), Frank Almeida (NOAA Fisheries Northeast Fisheries Science Center), Jason Link (NEFSC), and Brian Smith (NEFSC); Project Title: *Trophic Ecology of Atlantic Cod: Insights From Tri-monthly, Localized Scales of Sampling*
9. James Manning (NOAA Fisheries Northeast Fisheries Science Center), David Casoni (Massachusetts Lobstermen's Association), Bernard Feeney (Ocean Gold Seafood, Inc.; Whitman, MA), Clare Grindal (Downeast Lobstermen's Association), Bonnie Spinazzola (Atlantic Offshore Lobstermen's Association), Patrice McCarron (Gulf of Maine Lobster Foundation), David Sleeper (Spruce Head Fishermen's Cooperative); Project Title: *Environmental Monitors on Lobster Traps Phase II (eMOLT): Salinity*
10. Emily Monosson (Mount Holyoke College), David Lincoln (Gloucester Fishermen's Wives Association), and Angela Sanfilippo (GFWA); Project Title: *Comparison of Environmental Contaminants on Georges Bank and Stellwagen Bank*
11. Donald Perkins, Jr. (Gulf of Maine Research Institute), Mathew Cieri (Maine Department of Marine Resources), Steve Gough (F/V Western Wave; Prospect Harbor, ME), Andrew Johnston (GMRI), and M. Cameron McLellan (F/V Adventurer; Newcastle, ME); Project Title: *Fishing Vessel Survey of Coastal Herring Spawning Aggregations*
12. Michael Pol (Massachusetts Division of Marine Fisheries), Thomas Bell (F/V Michael Brandon; Scituate, MA), H. Arnold Carr (MADMF), Paul Cohan (F/V Sasquatch III; Gloucester, MA), Bill Hoffman (MADMF), Rebecca Jones (MADMF), Robert MacKinnon (Massachusetts Bay Inshore Commercial Gear Fishermen's Association), Scott MacKinnon (F/V Lady Irene; Scituate, MA), and Manomet Center for Conservation Sciences; Project Title: *Phase II: Testing of Low-Profile Low Cod-Bycatch Gillnets*

13. Robert Robertson (University of New Hampshire) and Bruce Lindsey (UNH); Project Title: *Socio-Economic Assessment*
14. Jeffrey Runge (University of New Hampshire) and George Littlefield (F/V Lady Regena; Kingston, NH); Project Title: *Long-Term Ecosystem Monitoring in the Gulf of Maine*
15. Daniel Schick (Maine Department of Marine Resources), Seth Davis (Commercial Fisherman), Scott Feindel (MEDMR), and Kristan Porter (F/V Whitney and Ashley; Cutler, ME); Project Title: *Gulf of Maine Ocean Quahog Assessment*
16. Daniel Schick (Maine Department of Marine Resources), Marsden Brewer (Commercial Fisherman; Stonington, ME), Wallace Gray (F/V Foxy Lady; Stonington, ME), Scott Fiendel (MEDMR), Dana Morse (University of Maine Sea Grant), and Craig Pendleton (Northwest Atlantic Marine Alliance); Project Title: *Maine Scallop Fishery Monitoring and Enhancement*
17. Kevin St. Martin (Rutgers University), Madeleine Hall-Arber (MIT Sea Grant), and Jen Levin (Northwest Atlantic Marine Alliance); Project Title: *An Atlas-Based Audit of Fishing Territories, Local Knowledge, and Community Participation in Fisheries Science and Management*
18. Paul Tsang (University of New Hampshire), Patrick Danley (UNH), Joe Jurek (F/V Mystique Lady; Seabrook, NH), and James Sulikowski (UNH); Project Title: *Life History Parameters for Two Exploited Skate Species (*Amblyraja radiata* and *Malacoraja senta*) in the Gulf of Maine*
19. Richard Wahle (Bigelow Laboratory for Ocean Sciences) and Jon Williams (Benthic Fishing Corp.; Westport Island, ME); Project Title: *Developing Stock Assessment Methods for the New England Deep Sea Red Crab Fishery*
20. Win Watson (University of New Hampshire) Paul Bennett (F/V Hedy Brenna; Newport, RI), Denny Colbert (F/V Virginia Marie; Sandwich, MA), Bro Cote (F/V William Bowe; Hyannis, MA), Marc Palombo (F/V Terri-Ann; Sandwich, MA), and Bonnie Spinazzola (Atlantic Offshore Lobster Association); Project Title: *An Automated, Comprehensive Monitoring Program for the Atlantic Offshore Lobster Fishery*

#### **FY2001 Outreach and Education in Support of Collaborative Research**

1. David Bergeron (Massachusetts Fishermen's Partnership; Gloucester, MA), Ted Ames (Commercial Fisherman; Stonington, ME), Jennifer Brewer (Clark University), Nancy Colbeth (University of Maine), Madeleine Hall-Arber (Massachusetts Institute of Technology), Bonnie McCay (Rutgers University), Jay Michaud (F/V International Harvester; Marblehead, MA), Sarah Robinson (Harvard University), and Lahny Silva (Boston University); Project Title: *Institutionalizing Social Science Data Collection: A Pilot Project*
2. Cliff Goudey (Massachusetts Institute of Technology), Phil Averill (Ocean Adventure!, Inc.; Bristol, MA), Kenneth Ekstrom (MIT Sea Grant), Dean Goodwin (Kimball Union Academy; Meriden, NH), Robert Groman (Woods Hole Oceanographic Institution), Robert Kohl (F/V Glenna and Jacob; Marston's Mills, MA), Grace Lee (MITSG), M. Cameron McLellan (F/V Adventurer; New Castle, ME), Brandy Moran (MITSG), and Craig Pendleton (Northwest Atlantic Marine Alliance); Project Title: *Adopt-a-Boat: Commercial Fishing Vessels in K-12 Education*
3. Mimi Larsen-Becker (University of New Hampshire), John Coon (UNH), David Goethel (F/V Ellen Diane; Hampton, NH), Andy Rosenberg (UNH), Mary Beth Tooley (East Coast Pelagics' Association), and John Williamson (Industry Representative; Kennebunk, ME); Project Title: *Marine Resource Education Project*
4. Craig Pendleton (Northwest Atlantic Marine Alliance) and Randy Seaver (NAMA); *Collaborative Research Reporter*

### FY2001 Project Development Awards

1. Erik Anderson (F/V Kris 'n' Kev; Portsmouth, NH); Project Title: *Field Testing of Improved Pingers in the Sink Gillnet Fishery*
2. Yong Chen (University of Maine), Robert Grabowski (UMaine), Margaret Hunter (Maine Department of Marine Resources), and Robert Russell (MEDMR); Project Title: *Developing a Computer Simulation Framework for Identifying an Optimal Fishery-Independent Survey Program for the ME Sea Urchin Population*
3. Cliff Goudey (Massachusetts Institute of Technology); Project Title: *A Preliminary Evaluation of Stretch-Mesh Catch Controls*
4. Pingguo He (University of New Hampshire) and Carl Bouchard (F/V Stormy Weather; Exeter, NH); Project Title: *Development of a Hydrodynamic Cover for Conducting Experiments on Selectivity of Trawl Codend Onboard Fishing Vessels*
5. Pingguo He (University of New Hampshire); Project Title: *Industrial Training Workshop on Selectivity and Conservation During Trawling*
6. Kohl Kanwit (Maine Department of Marine Resources), David Libby (MEDMR), David Reingardt (F/V Thunder Bay; Wakefield, RI); Alton West (Stinson 2000 Inc.); Project Title: *Atlantic Herring Stock Discreteness and Migration: A Coded Microwire Tagging Pilot Project in the Gulf of Maine*
7. Allan Michael (ADM Associates; Magnolia, MA) and Bill Lee (F/V Ocean Reporter; Rockport, MA); Project Title: *A Test of Baited Underwater Video as a Fisheries Assessment Tool*

**Northeast Consortium  
FY2002 Collaborative Research Projects**

1. Diane Cowan (The Lobster Conservancy), Richard Barter (F/V Tammy Jean II; Friendship, ME), Kevin Benner (F/V Wanda Marie; Friendship, ME), Philip Bramhall (F/V Amanda Kate; Friendship, ME), Mark Havener (F/V Sarah Ashley; Friendship, ME), Andrew Solow (Woods Hole Oceanographic Institution), Mark Wallace (F/V Pamela B; Friendship, ME), and Win Watson (University of New Hampshire); Project Title: *Mapping Spawning and Hatching Grounds of the American Lobster*
2. Christopher Glass (Manomet Center for Conservation Sciences), H. Arnold Carr (Massachusetts Division of Marine Fisheries), Vincent Balzano (F/V North Star; Portland, ME), Timothy Feehan (Manomet), Benedetta Sarno (Manomet), Russell Sherman (F/V Lady Jane; Gloucester, MA), and Proctor Wells (F/V Tenacious; Phippsburg, ME); Project Title: *Reduction of Bycatch and Discard in the Gulf of Maine Groundfish Fisheries: The effect of composite mesh codends*
3. Cliff Goudey (Massachusetts Institute of Technology), David Marciano (Commercial Fisherman), Rodney Rountree (University of Massachusetts-Dartmouth), and Proctor Wells (F/V Tenacious; Phippsburg, ME) Project Title: *The Identification of Cod and Haddock Spawning Habitat Using Passive Acoustics*
4. Raymond Grizzle (University of New Hampshire), Jason Driscoll (F/V Karen Lynn; Exeter, NH), Mark Dowell (UNH), Peter Kendall (F/V Miss Alicia; Rye, NH), Michael Lesser (UNH), Craig Mavrikis (F/V Marion Mae; Eliot, ME), Larry Mayer (UNH), Rob Robertson (UNH), Andy Rosenberg (UNH), and Larry Ward (UNH); Project Title: *Intensive Study of the Western Gulf of Maine Closure Area*
5. Pingguo He (University of New Hampshire), George Littlefield (F/V Lady Regena; Kensington, NH), and Richard Syphers (F/V Janice Marie; Hampton, NH); Project Title: *Reducing Seabed Contact of Trawling: A Semi-Pelagic Trawl for the Gulf of Maine Shrimp Fishery*
6. Pingguo He (University of New Hampshire) and Mark Gauron (F/V Captain Al; Hampton, NH); Project Title: *Reducing Cod Bycatch in Flounder Nets in the Gulf of Maine by Using Shallower Gillnets*
7. Hunt Howell (University of New Hampshire), Vincent Balzano (F/V North Star; Portland, ME), Carl Bouchard (F/V Stormy Weather; Exeter, NH); Jim Ford (F/V Lisa Ann II; Newburyport, MA), David Goethel (F/V Ellen Diane; Hampton, NH), Frank Mirarchi (F/V Christopher Andrew; Scituate, MA), and Mike Morin (UNH); Project Title: *Determining Groundfish Movement Patterns In and Around the Western Gulf of Maine Area Closure*
8. Ted Ligenza (F/V Riena Marie; South Chatham, MA), Frank Almeida (NOAA Fisheries Northeast Fisheries Science Center), Jason Link (NEFSC), and Brian Smith (NEFSC); Project Title: *The Trophic Ecology of Atlantic Cod: Insights from Tri-Monthly, Localized Scales of Sampling*
9. Patrice McCarron (Maine Lobstermen's Association) and James Manning (NOAA Fisheries Northeast Fisheries Science Center), David Casoni (Massachusetts Lobstermen's Association), Bernard Feeney (Ocean Gold Seafood, Inc.; Whitman, MA), Clare Grindal (Downeast Lobstermen's Association), David Sleeper (Spruce Head Fishermen's Cooperative), Bonnie Spinazzola (Atlantic Offshore Lobstermen's Association); Project Title: *Environmental Monitors on Lobster Traps (eMOLT): Phase III*
10. M. Cameron McLellan (F/V Adventurer; Newcastle, ME), Joseph Kelley (University of Maine), Laura Taylor Singer (Gulf of Maine Research Institute), and Les Watling (UMaine); Project Title: *An Assessment of Bottom Habitat Community Recovery in the Western Gulf of Maine Closed Area*
11. Donald Perkins (Gulf of Maine Research Institute), Matthew Cieri (Maine Department of Marine Resources), Steve Gough (F/V Western Wave; Prospect Harbor, ME), Kohl Kanwit (MEDMR), Barry Matthews (F/V Ocean Venture; Hamden, ME), Cameron McLellan (F/V Adventurer; Newcastle, ME), Paul Morse (F/V Western Hunter; New Bedford, MA), Peter Mullen (F/V Western Wave; Gloucester, MA), David Reingardt (F/V Thunder Bay; Wakefield, RI), Shale Rosen (GMRI), and Kevin Scheirer (GMRI); Project Title: *Fishing Vessel Survey and Migration Study of Coastal Herring Spawning Aggregations in the Gulf of Maine*
12. Jeffrey Runge (University of New Hampshire), Erik Anderson (F/V Kris n' Kev; Portsmouth, NH), Jeremy and Karen Davis (F/V Karen Lynn II and F/V Chutzpah; Kittery, ME), Bud Fernandes (F/V Rhiannon Rae; Kittery, ME), Rebecca Jones (UNH), Peter Kendall (F/V Kelly Rose and F/V Elizabeth Ann; Rye, NH), George Littlefield (F/V Lady Regena; Kensington, NH), Craig Mavrikis (F/V Marion Mae; Eliot, ME), Portsmouth Fishermen's Cooperative, Dennis Robillard (F/V Julie Ann II; Eliot, ME), Lee Stevens (F/V Lynn Allison); and Allan Vangile (F/V Special K; Portsmouth, NH); Project Title: *A Cooperative Partnership for Pelagic Ocean Ecosystem Monitoring in the Gulf of Maine*

13. Dan Schick (Maine Department of Marine Resources), Vincent Balzano (F/V North Star; Saco, ME), Yong Chen (University of Maine), Stanley Coffin (F/V Bad Penny; Edgcomb, ME), Margaret Hunter (MEDMR); Lew Incze (Bigelow Laboratory for Ocean Sciences), Dale Page (F/V Aaron & Sarah; Boothbay Harbor, ME), Craig Pendleton (F/V Susan & Caitlyn; Saco, ME), Kelo Pinkham (F/V Jeanne C.; Trevett, ME), Laura Taylor Singer (GMRI), David Townsend (University of Maine), and Lessie White (MEDMR); Project Title: *Abundance, Migration and Recruitment of Northern Shrimp in the Gulf of Maine: An Industry-Initiated Verification Survey and Environmental Monitoring Pilot Project*
14. Dan Schick (Maine Department of Marine Resources), Kelo Pinkham (F/V Jeanne C.; Trevett, ME), and Lessie White (MEDMR); Project Title: *Improving the Size Selectivity for Northern Shrimp Through Use of a Modified Nordmore Grate*
15. John Sowles (Maine Department of Marine Resources), Yong Chen (University of Maine), Jeff Flagg (Portland Trawler Supply; Brownfield, ME), Sam Galli (F/V Tara Lynn; Portland, ME), Douglas Grout (New Hampshire Department of Fish and Game), Linda Mercer (MEDMR), Curt Rice (F/V Robert Michael; Portland, ME), Sally Sherman (MEDMR), Keri Stepanek (MEDMR), and Robert Tetrault (T/R Fish, Inc.; Portland, ME); Project Title: *Maine-NH In Shore Trawl Survey*
16. Win Watson (University of New Hampshire), Paul Bennett (F/V Hedy Brenna; Newport, RI), Denny Colbert (F/V Virginia Marie; Sandwich, MA); Bro Cote (F/V William Bowe; Hyannis, MA), Nick Jenkins (F/V Eulia McGrath; Newington, NH), Marc Palombo (F/V Terri-Ann; Sandwich, MA), David Spencer (F/V Nathaniel Lee; Newport, RI), and Bonnie Spinazzola (Atlantic Offshore Lobster Association); Project Title: *Implementation of a Monitoring Program for the Atlantic Offshore Lobster Fishery*
17. Carl Wilson (Maine Department of Marine Resources), Larry Knapp (F/V Lady Esther; Boothbay, ME), Oscar Look III (F/V Mary Lou & Kendra; Beals Island, ME), Brian McLain (F/V Silver Bullet; New Harbor, ME), Brent Oliver (F/V Jarsulan III; Deer Isle, ME), Robert Russell (MEDMR), Stanley Sargent (F/V Gale Warnings; Millbridge, ME), Art Vuilleumier (F/V KEEP-AH; South Portland, ME); Project Title: *Distribution and Abundance of Jonah Crabs, *Cancer borealis*, in the Near-Shore Gulf of Maine*

**FY2002 Continuing Collaborative Research Project**  
(FY2001 project. Second year funded in FY2002.)

1. Robert Robertson (University of New Hampshire) and Bruce Lindsay (UNH); Project Title: *Socioeconomic Impact Assessment Enhancement Project: Analysis of Impacts from Fishing Capacity Reduction*

**FY2002 Outreach and Education in Support of Collaborative Research**

1. Mimi Larsen-Becker (University of New Hampshire), John Coon (UNH), David Goethel (F/V Ellen Diane; Hampton, NH), Andy Rosenberg (UNH), Mary Beth Tooley (East Coast Pelagics' Association; Camden, ME), and John Williamson (Industry Representative; Kennebunk, ME); Project Title: *Marine Resource Education Project*
2. Cliff Goudey (Massachusetts Institute of Technology), Phil Averill (Ocean Adventure!, Inc.; Bristol, ME), Kenneth Ekstrom (MIT Sea Grant), Dean Goodwin (Kimball Union Academy; Meriden, NH), Robert Groman (Woods Hole Oceanographic Institution), Robert Kohl (F/V Glenna and Jacob; Marston's Mills, MA), Grace Lee (MITSG), Cameron McLellan (F/V Adventurer; Newcastle, ME), Brandy Moran (MITSG), Craig Pendleton (Northwest Atlantic Marine Alliance) and Mathew Thomson (F/V Striker; Monhegan Island, ME); Project Title: *Adopt-a-Boat: Commercial Fishing Vessels in K-12 Education* (FY2001 project continued)
3. Pingguo He (University of New Hampshire); Project Title: *Workshop on Trawl Selectivity and Conservation*

## FY2002 Project Development Awards

1. David Autio (Commercial Fisherman; Bremen, ME), Phil Averill (Ocean Adventure, Inc.; Bristol, ME), Scott Feindel (Maine Department of Marine Resources), Frank Genthner (Commercial Fisherman; New Harbor, ME), Nate Hannah (Round Pond, ME), Larry Holmes (Bristol, ME), Robert Russell (MEDMR), and Kevin Varney (Sheepscott, ME); Project Title: *Development of an Off-Bottom Scallop Dredge*
2. Yong Chen (University of Maine), Peter Collin (Coastwide Bio Resources, Stonington, ME), Scott Feindel (Maine Department of Marine Resources), Elena Gudimova (Murmansk State University, Russia), Sheril Kirshenbaum (UMaine), David Leach (Commercial Fisherman; Steuben, ME), Russell Leach (Commercial Fisherman; Steuben, ME), Drusilla Ray (Cherry Point Products; Milbridge, ME), and Lawrence Ray (F/V Eugenia II; Milbridge, ME); Project Title: *A Preliminary Study of the Maine Sea Cucumber (Cucumaria frondosa) Fishery*
3. Christopher Glass (Manomet Center for Conservation Sciences), Vincent Balzano (F/V North Star; Portland, ME), and James McDonnell (Geartech, Ireland); Project Title: *Testing of an Inclined Separation Panel to Reduce Bycatch and Discard in Gulf of Maine Groundfish Fisheries*
4. Christopher Glass (Manomet Center for Conservation Sciences), Terry Alexander (F/V Jocka; Portland, ME) and Mark Freedman (F/V Miss Sarah; Plymouth, MA); Project Title: *Development and Testing of a Novel "Rigid-Mesh" Bycatch Reduction Device for Gulf of Maine Groundfish Fisheries*
5. Clifford Goudey (Massachusetts Institute of Technology), Robert Kohl (F/V Glenna & Jacob; Hyannis, MA), and Justin Manley (MIT); Project Title: *The Use of AUVs to Study Fisheries Habitat*
6. Pingguo He (University of New Hampshire); Greg Cameron (Riverdale Corp.; Northridge, MA) and Proctor Wells (F/V Tenacious; Phippsburg, ME); Project Title: *Harvesting of Groundfish Using Baited Pots to Reduce Bycatch and Seabed Impact*
7. Dale Moore (Commercial Fisherman; Phippsburg, ME), David Autio (Commercial Fisherman; Bremen, ME) and Phil Averill (Ocean Adventure!, Inc.; Bristol, ME); Project Title: *Use of 8" Square Mesh Throughout a Trawl to Target Flatfish in the Western Gulf of Maine*
8. Craig Pendleton (Northwest Atlantic Marine Alliance), Heather Deese (NAMA), Scott Feindel (Maine Department of Marine Resources), Dana Morse (University of Maine Sea Grant), Dan Schick (MEDMR), and Steve Zeeman (University of New England); Project Title: *Saco Bay Scallop Stock Enhancement*
9. Kelo Pinkham (F/V Jeannie C.; Trevett, ME) and Dana Morse (Maine Sea Grant); Project Title: *Feasibility Study for Knotless Cod Ends*
10. Richard Wahle (Bigelow Laboratory for Ocean Sciences), Yong Chen (University of Maine), and Jon Williams (Benthic Fishing Corp.; Westport Island, ME); Project Title: *Evaluating Beam-Trawls in Stock Assessment Surveys of New England Deep Sea Red Crab*
11. Carl Wilson (Maine Department of Marine Resources), Robert Alley, Sr. (F/V Irene Renee II; Beals Island, ME), Brad Billings (F/V Bumps and Bruises; Stonington, ME), Thomas Lawson (F/V Katherine Louise; Southwest Harbor, ME), and Brent Oliver (F/V Jarsulan III; Stonington, ME); Project Title: *A Cooperative Investigation Towards an Exempted Trap to Exclusively Target Jonah Crabs (Cancer borealis) in Lobster Management Area 1*



**Northeast Consortium  
FY2003 Collaborative Research Projects**

1. Robert Bayer (The Lobster Institute – University of Maine), Herbert Hodgkins (Maine Lobster Pound Association), and The Manildra Group (New South Wales, Australia); Project Title: *Developing an Alternative Bait for the American Lobster Industry*
2. Jennifer Brewer (Clark University), Gina LeDuc-Kuntz (F/V Resurrected; Chebeague Island, ME), Sarah Robinson (Harvard University), Christine Sherman (F/V Lady Jane, Gloucester, MA), and James Wilson (University of Maine); Project Title: *Mapping Mobility: The Movement of New England Multispecies Vessels and Crew in New England and Beyond from 1994-2004*
3. Steven Cadrin (NOAA Fisheries Northeast Fisheries Science Center), William Amaru (F/V Joanne A II; S. Orleans, MA), Rodney Avila (F/V Trident, New Bedford, MA), John Ducette (NEFSC), David Goethel (F/V Ellen Diane, Hampton, NH), Frederick Mattera (F/V Travis & Natalie, West Kingston, RI), Shawn McLellan (F/V Elizabeth; Boothbay, ME), John Raymond (F/V Olympia; Portland, ME), Luis Ribas (F/V Blue Skies; Provincetown, MA), Proctor Wells (F/V Tenacious; Phippsburg, ME), and Azure Westwood (NEFSC); Project Title: *Yellowtail Flounder Tagging Study*
4. Yong Chen (University of Maine), Peter Collin (Coastwide Bio Resources), Scott Feindel (Maine Department of Marine Resources), Sheril Kirshenbaum (UMaine), David Leach (Commercial Fisherman; Steuben, ME), Russell Leach (Commercial Fisherman; Steuben, ME), Drusilla Ray (Cherry Point Products, Milbridge, ME), and Lawrence Ray (F/V Eugenia II, Milbridge, ME); Project Title: *An Evaluation of the Maine Sea Cucumber Resources and Impacts of Exploitation*
5. Christopher Glass (Manomet Center for Conservation Sciences), Vincent Balzano (F/V North Star; Portland, ME), and James McDonnell (Geartech; Ireland); Project Title: *Development of an Inclined Separation Panel to Reduce Bycatch and Discard in Gulf of Maine Groundfish Fisheries*
6. Christopher Glass (Manomet Center for Conservation Sciences), Terry Alexander (F/V Jocka; Portland, ME), and Mark Freedman (F/V Miss Sarah; Plymouth, MA); Project Title: *Development and Testing of a Novel “Rigid-Mesh” Bycatch Reduction Device for Gulf of Maine Groundfish Fisheries*
7. Pingguo He (University of New Hampshire), Vincent Balzano (F/V North Star; Portland, ME), Dan Schick (Maine Department of Marine Resources), and Proctor Wells (F/V Tenacious; Phippsburg, ME); Project Title: *Use of Kites in Shrimp Codends to Reduce Small Shrimps and Bycatch Species*
8. Patrice McCarron (Gulf of Maine Lobster Foundation), David Casoni (Massachusetts Lobstermen’s Association), Jeremy Cates (Downeast Lobstermen’s Association), Charles Gregory (Southern Maine Community College), James Manning (NOAA Fisheries Northeast Fisheries Science Center), and Bonnie Spinazzola (Atlantic Offshore Lobstermen’s Association); Project Title: *Environmental Monitors on Lobster Traps Phase IV (eMOLT): Drifters*
9. Dana Morse (University of Maine Sea Grant), Robert Holland (F/V Double J; Jonesboro, ME), Steve Patryn (F/V Northern Eagle; Jonesboro, ME); Project Title: *Field Trials of 4” Rings in the Inshore Scallop Fishery of the Gulf of Maine*
10. Dana Morse (University of Maine Sea Grant), Stanley Coffin (F/V Bad Penny; Edgecomb, ME), Bill Lee (F/V Ocean Reporter; Rockport, MA), and Kelo Pinkham (F/V Jeanne C.; Trevett, ME); Project Title: *Investigating the Use of Square Mesh Side Panels and Increased Taper in a Groundfish Trawl*
11. John Pappalardo (Cape Cod Commercial Hook Fishermen’s Association), Marianne Farrington (New England Aquarium), Henry Milliken (NOAA Fisheries Northeast Fisheries Science Center), Tom Rudolph (CCCHFA), and Melissa Sanderson (CCCHFA); Project Title: *Survival of Sub-Legal Cod (Gadus morhua) in the Northwest Atlantic Longline Fishery*
12. Kelo Pinkham (F/V Jeanne C., Trevett, ME), Daniel Schick (Maine Department of Marine Resources), and Lessie White (MEDMR); Project Title: *Improving the Size Selectivity for Northern Shrimp Through Use of a Combination of a Modified Nordmore Grate and Square Mesh Cod End*
13. Shale Rosen (Gulf of Maine Research Institute), Matthew Cieri (Maine Department of Marine Resources), Cameron McLellan (F/V Adventurer; Newcastle, ME), and Kevin Scheirer (GMRI); Project Title: *Commercial Vessel Acoustic Survey of Coastal Herring Spawning Units*

14. Daniel Schick (Maine Department of Marine Resources), Vincent Balzano (F/V North Star, Portland, ME), Togue Brawn (Gulf of Maine Research Institute), Stanley Coffin (F/V Bad Penny; Edgecomb, ME), Margaret Hunter (MEDMR), Lewis Incze (University of Southern Maine), Dale Page (F/V Aaron & Sarah; Boothbay Harbor, ME), Craig Pendleton (F/V Susan & Caitlyn; Saco, ME), Kelo Pinkham (F/V Jeanne C.; Trevett, ME), Laura Taylor Singer (GMRI), Stuart Stinchfield (F/V Susan & Caitlyn; Saco, ME), David Townsend (University of Maine), and Lessie White (MEDMR); Project Title: *Migration and Recruitment of Northern Shrimp in the Gulf of Maine: An Environmental Monitoring Pilot Program*
15. Richard Wahle (Bigelow Laboratory for Ocean Sciences), Yong Chen (University of Maine), Jon Williams (Benthic Fishing Corp.; Westport Island, ME); Project Title: *Developing Stock Assessment Methods for the New England Deep Sea Red Crab Fishery*

#### **FY 2003 Continuing Collaborative Research Projects**

*(FY2002 projects. Second year funded in FY2003.)*

1. Raymond Grizzle (University of New Hampshire), Jason Driscoll (F/V Karen Lynn; Exeter, NH), Mark Dowell (UNH), Peter Kendall (F/V Miss Alicia; Rye, NH), Michael Lesser (UNH), Craig Mavrikis (F/V Marion Mae; Eliot, ME), Larry Mayer (UNH), Rob Robertson (UNH), Andy Rosenberg (UNH), and Larry Ward (UNH); Project Title: *Intensive Study of the Western Gulf of Maine Closure Area*
2. Jeffrey Runge (University of New Hampshire), Erik Anderson (F/V Kris n' Kev; Portsmouth, NH), Jeremy and Karen Davis (F/V Karen Lynn II and F/V Chutzpah; Kittery, ME), Bud Fernandes (F/V Rhiannon Rae; Kittery, ME), Rebecca Jones (UNH), Peter Kendall (F/V Kelly Rose and F/V Elizabeth Ann; Rye, NH), George Littlefield (F/V Lady Regena; Kensington, NH), Craig Mavrikis (F/V Marion Mae; Eliot, ME), Portsmouth Fishermen's Cooperative, Dennis Robillard (F/V Julie Ann II; Eliot, ME), Lee Stevens (F/V Lynn Allison); and Alan Vangile (F/V Special K; Portsmouth, NH); Project Title: *PULSE: A Cooperative Partnership for Pelagic Ocean Ecosystem Monitoring in the Gulf of Maine*
3. Win Watson (University of New Hampshire), Paul Bennett (Commercial Lobsterman; RI), Denny Colbert (Commercial Lobsterman; MA); Bro Cote (Commercial Lobsterman; MA), Nick Jenkins (Commercial Lobsterman; NH), Marc Palombo (Commercial Lobsterman; RI), David Spencer (Commercial Lobsterman; RI), and Bonnie Spinazzola (Atlantic Offshore Lobster Association); Project Title: *Implementation of a Monitoring Program for the Atlantic Offshore Lobster Fishery*

#### **FY2003 Outreach and Education in Support of Collaborative Research**

1. Pingguo He (University of New Hampshire); Project Title: *Workshop on Trawl Selectivity and Conservation*

#### **FY2003 Continuing Outreach and Education in Support of Collaborative Research**

*(FY2002 projects. Second year funded in FY2003.)*

1. Mimi Larsen-Becker (University of New Hampshire), John Coon (UNH), David Goethel (F/V Ellen Diane; Hampton, NH), Andy Rosenberg (UNH), Mary Beth Tooley (East Coast Pelagics' Association), and John Williamson (Industry Representative; Kennebunk, ME); Project Title: *Marine Resource Education Project*

#### **FY2003 Project Development Awards**

1. Robert Campbell (Yankee Fishermen's Cooperative), Molly Lutcavage (University of New Hampshire), and Scott McGuire (Chesapeake Biological Lab); Project Title: *New Methods to Chill Giant Bluefin Tuna*
2. Jonathan Grabowski (Gulf of Maine Research Institute), Marshall Alexander (F/V Dee Dee Mae II; Biddeford, ME), Jeremy Davis (F/V Karen Lynn I; Kittery, ME), and Branimir Viducic (F/V Joanne V; Old Orchard Beach, ME); Project Title: *Large-scale (from Cape Hatteras, NC to the Gulf of Maine) Migratory Patterns of Monkfish (*Lophius americanus*) Populations in the Northwestern Atlantic*
3. Allyson Jordan (Jordan Maritime Industries, Ltd.; Portland, ME), Jeff Flagg (Portland Trawler Supply), Manomet Center for Conservation Sciences, and Greg Turner (F/V Theresa & Allyson; Portland, ME); Project Title: *Construction and Operational Efficiency of a "Two-Seam 200 mesh x 30cm Monkfish Trawl"*

4. Mark Leach (Cape Cod Commercial Hook Fishermen's Association), Susan Goldhor (The Center for Applied Regional Studies), and Tom Rudolph (CCCHFA); Project Title: *Production and Testing of an Alternative Bait Selecting for Haddock*
5. Bill Lee (F/V Ocean Reporter; Rockport, MA), Robert Cotrino (F/V Gretchen Marie), Melissa Hall (Royalston, MA), Bob Fisher (F/V Marina Rose), John Hogan (F/V Odie Colonie), Jack Ketchopoulos (F/V Special K), Tim Macdonald (F/V Dory I), Allan Michael (Magnolia, MA), Dennis O'Connell (F/V Lady Elaine), Jason Pollison (F/V Rumboogie), Paul Theriault (F/V Terminator), and Jay VanDerpool (F/V Rover); Project Title: *Bycatch Reduction in the Northeast Shrimp Fishery*
6. Bill Lee (F/V Ocean Reporter; Rockport, MA), Robert Cotrino (F/V Gretchen Marie), Melissa Hall (Royalston, MA), Bob Fisher (F/V Marina Rose), John Hogan (F/V Odie Colonie), Jack Ketchopoulos (F/V Special K), Tim Macdonald (F/V Dory I), Allan Michael (ADM Associates; Magnolia, MA), Dennis O'Connell (F/V Lady Elaine), Jason Pollison (F/V Rumboogie), Paul Theriault (F/V Terminator), and Jay VanDerpool (F/V Rover); Project Title: *Comparison of Catch and Bycatch with Beam and Otter Trawls in the Northeast Shrimp Fishery*
7. Patrice McCarron (Gulf of Maine Lobster Foundation) and Erin Pelletier (GMLF); Project Title: *Ventless Trap Survey*
8. Kelo Pinkham (F/V Jeanne C; Trevett, ME) and Dana Morse (University of Maine Sea Grant); Project Title: *The Use of Positively Buoyant Ground Cables and Sweep to Reduce Seabed Contact and to Enhance Species Selectivity*
9. Daniel Schick (Maine Department of Marine Resources), Shale Rosen (Gulf of Maine Research Institute), and Proctor Wells (F/V Tenacious; Phippsburg, ME); Project Title: *Exploring the Addition of an Acoustic Shrimp Survey to the Summer Gulf of Maine Shrimp Survey*
10. Carl Wilson (Maine Department of Marine Resources); Robert Bracy (F/V Pandora; Monhegan Island, ME); Mathew Thomson (F/V Shearwater II; Monhegan Island, ME) and Matthew Weber (F/V Griffin; Monhegan Island, ME); Project Title: *The Relationship Between Traps, Effort and Fishing Mortality in the Maine Lobster Fishery: Manipulative Experiments in the Monhegan Lobster Conservation Area*

**Northeast Consortium  
FY2004 Collaborative Research Projects**

1. John Annala (Gulf of Maine Research Institute), Bryan Bichrest (F/V Safe Haven; Harpswell, ME), Mark Bichrest (F/V Jennifer and Emily; Harpswell, ME), Matthew Cieri (Maine Department of Marine Resources), and Shale Rosen (GMRI); Project Title: *Commercial Vessel Acoustic Survey of Coastal Herring Spawning Units*
2. Steve Cadrin (NOAA Fisheries Northeast Fisheries Science Center), Rodney Avila (F/V Trident; New Bedford, MA), Tony Borges (F/V Sao Paulo; New Bedford, MA), David Goethel (F/V Ellen Diane; Hampton, NH), Fred Mattera (F/V Travis & Natalie; West Kingston, RI), Luis Ribas (F/V Blue Skies; Provincetown, MA), and Azure Westwood (Integrated Statistics; Woods Hole, MA); Project Title: *Yellowtail Flounder Tagging Study (2005)*
3. Diane Cowan (The Lobster Conservancy), Richard Barter (F/V Tammy Jean II; Friendship, ME), Kevin Benner (F/V Wanda Marie; Friendship, ME), Philip Bramhall (F/V Amanda Kate; Friendship, ME), Sara Ellis (TLC); Mark Havener (F/V Sarah Ashley; Friendship, ME), Andrew Solow (Woods Hole Oceanographic Institution), Mark Wallace (F/V Pamela B; Friendship, ME), and Win Watson (University of New Hampshire); Project Title: *Mapping the Spawning and Hatching Grounds of the American Lobster: Year III*
4. Robert Glenn (Massachusetts Department of Marine Fisheries), John Carver (South Shore Lobstermen's Association), David Casoni (Massachusetts Lobstermen's Association), Tracy Pugh (MADMF), and Steve Wilcox (MADMF); Project Title: *Random Stratified Ventless Trap Survey Design for Pilot Study in Massachusetts Bay*
5. Madeleine Hall-Arber (MIT Sea Grant), David Bergeron (Massachusetts Fishermen's Partnership), Olivia Rugo Free (MFP), Judith Pederson (MITSG), Rhonda Ryznar (MITSG), and Richard Taylor (Commercial Fisherman; Gloucester, MA); Project Title: *Charting Anecdotal Information and Oral Histories on Stellwagen Bank from Local Fishermen*
6. Pingguo He (University of New Hampshire), Vincent Balzano (F/V North Star; Portland, ME), Tim Eddy (F/V Persistence; Portland, ME), and Paul Winger (Fisheries & Marine Institute; Newfoundland, Canada); Project Title: *A High Opening Kite-Assisted Raised Footrope Trawl for Haddock and Pollack for the Gulf of Maine Multispecies Fisheries*
7. Pingguo He (University of New Hampshire), Randy Gauron (F/V Capt. Al; Hampton, NH), Peter Innis (F/V Barbara & Lynn; Portland, ME), Thomas Moth-Poulsen (Massachusetts Division of Marine Fisheries), Michael Pol (MADMF), and Steve Welch (F/V American Heritage; Scituate, MA); Project Title: *Further Tests on Low Profile Flounder Gillnets to Reduce Cod Catch in the Gulf of Maine*
8. Margaret Hunter (Maine Department of Marine Resources), Drew Gowen (MEDMR), and Stephen Patryn (F/V Northern Eagle; Jonesboro, ME); Project Title: *Testing the Effectiveness of Various Escape Panel Configurations on Urchin Drags*
9. Lewis Incze (University of Southern Maine), D. Brooks (Texas A&M University), James Manning (NOAA Fisheries Northeast Fisheries Science Center), and Proctor Wells (F/V Tenacious; Phippsburg, ME); Project Title: *Drifter Study of a Front in the Maine Coastal Current System off Penobscot Bay, Maine*
10. Kohl Kanwit (Maine Department of Marine Resources), Mark Bichrest (F/V Jennifer and Emily; Harpswell, ME), Barry Matthews (F/V Ocean Venture; Hampden, ME), and David Reingardt (F/V Thunder Bay; Wakefield, RI); Project Title: *Stock Intermixing and Migration of Atlantic Herring (*Clupea harengus*) in the Gulf of Maine, Georges Bank and Southern New England*
11. Les Kaufman (Boston University), David Bergeron (Massachusetts Fishermen's Partnership), Olivia Rugo Free (MFP) Cliff Goudey (Massachusetts Institute of Technology), Bill Lee (F/V Ocean Reporter; Rockport, MA), and Phillip Michaud, Jr. (F/V Susan C III; Eastham, MA); Project Title: *A Biological Study of Sand Lance in the Southern Gulf of Maine*
12. Paul Parker (Cape Cod Commercial Hook Fishermen's Association), Jon Brodziak (NOAA Fisheries Northeast Fisheries Science Center), Tom Rudolph (CCCHFA), and Shelly Tallack (Gulf of Maine Research Institute); Project Title: *Haddock Migration in New England Waters*
13. Win Watson (University of New Hampshire), Diane Cowan (The Lobster Conservancy), Jason Goldstein (University of New Hampshire), Bonnie Spinazzola (Atlantic Offshore Lobstermen's Association), and Michael Tlusty (New England Aquarium); Participating Lobstermen: Alan Vangile, Russ Brown, Matt Fessenden, Mark

14. Carl Wilson (Maine Department of Marine Resources), Michael Bell (Lowestoft Laboratory; Suffolk, UK), Yong Chen (University of Maine), Ross Claytor (Bedford Institute of Oceanography; Dartmouth, Nova Scotia), Richard Wahle (Bigelow Laboratory for Ocean Sciences), Monhegan, ME, vessels: David Boegel (F/V Kathleen); Robert Bracy (F/V Pandora); Lucas Chioffi (F/V Fenris); Dan Murdock (F/V Sylvia Anne); Sherman Stanley (F/V Legacy); Mathew Thomson (F/V Shearwater II); and Matt Weber (F/V Griffin); Project Title: *Manipulative Trapping Experiments in the Monhegan Lobster Conservation Area*

#### **FY2004 Outreach and Education in Support of Collaborative Research**

1. Pingguo He (University of New Hampshire); Project Title: *Workshop on Trawl Selectivity and Conservation (FY2003 project. Second year funded in FY2004.)*
2. Pingguo He (University of New Hampshire), Erik Anderson (F/V Kris 'n' Kev; Portsmouth, NH), David Goethel (F/V Ellen Diane; Hampton, NH), Joe Jurek (F/V Mystique Lady; Seabrook, NH), and Tom Lyons (F/V Marion J; Hampton, NH); Project Title: *A Fishing Gear Workshop by Fishermen for Non-Fishermen*
3. Mimi Larsen-Becker (University of New Hampshire), John Coon (UNH), David Goethel (F/V Ellen Diane; Hampton, NH), Andy Rosenberg (UNH), Mary Beth Tooley (East Coast Pelagics' Association), and John Williamson (Industry Representative; Kennebunk, ME); Project Title: *Marine Resource Education Project*

#### **FY2004 Project Development Awards**

1. Steve Cadrin (NOAA Fisheries Northeast Fisheries Science Center) and David Goethel (F/V Ellen Diane; Hampton, NH); Project Title: *Flatfish Cage System for Bycatch Studies*
2. Heather Deese (Northwest Atlantic Marine Alliance), Larry Alade (University of Maryland), David Berlinsky (University of New Hampshire), David Goethel (F/V Ellen Diane; Hampton, NH), Adrienne Kovach (UNH), Lorraine Maceda (New York University), Frank Mirarchi (F/V Christopher Andrew; Scituate, MA), and Isaac Wirgin (NYU); Project Title: *Utilizing Genetic Techniques to Discriminate Atlantic Cod Spawning Stocks in U.S. Waters: A Pilot Project*
3. Cliff Goudey (Massachusetts Institute of Technology), David Bergeron (Massachusetts Fishermen's Partnership), Michael Pol (MADMF), and Paul Tasha (Commercial Fisherman; Provincetown, MA); Project Title: *Design and Preliminary Testing of an Innovative Scallop Dredge*
4. Ray Grizzle (University of New Hampshire), David Berlinsky (UNH), and Mike Leary (F/V Lori B; Hampton Falls, NH); Project Title: *Developing a Protocol for Sampling Juvenile Groundfish in Rocky Habitat*
5. Pingguo He (University of New Hampshire), and Vincent Balzano (F/V North Star; Portland, ME); Project Title: *Modifying the Nordmore Grid Rigging to Reduce Fish Discards in Shrimp Trawls in the Gulf of Maine*
6. Rebecca Jones (University of New Hampshire), Jeffrey Runge (UNH), Daniel Schick (Maine Department of Marine Resources), Brad Parady (Commercial Fisherman; Portsmouth, NH), and Brian Soares (UNH); Project Title: *Design and Testing of Trap for Assessment of Abundance and Distribution of Juvenile Shrimp in the Western Gulf of Maine*
7. Kevin Kelly (Maine Department of Marine Resources) and Mathew Thomson (F/V Shearwater; Monhegan Island, ME); Project Title: *A Pilot Gillnet Survey of the Cashes Ledge Closed Area*
8. Kelo Pinkham (F/V Jeanne C; Trevett, ME), Pingguo He (UNH), and Daniel Schick (Maine Department of Marine Resources); Project Title: *Pilot Project to Test the Feasibility of the Use of Shrimp Traps as a Survey Tool for Both Adult and Juvenile *Pandalus borealis**
9. Kelo Pinkham (F/V Jeanne C; Trevett, ME) and Pingguo He (UNH); Project Title: *Winter Flounder Traps: Exploring the Potential for Environmentally-Friendly Access to Groundfish in Coastal Maine*
10. Richard Wahle (Bigelow Laboratory for Ocean Sciences), John O'Leary (F/V Captain Bligh; Wakefield, RI), Matt Parkhurst (F/V Sea Spray; Boothbay Harbor, ME), and Carl Wilson (Maine Department of Marine Resources); Project Title: *Testing a Method to Evaluate Deepwater Settlement of the American Lobster*

**Northeast Consortium  
FY2005 Collaborative Research Projects**

1. John Annala (Gulf of Maine Research Institute), Mark Bichrest (F/V Jennifer and Emily; Harpswell, ME), Matthew Cieri (MEDMR), Shale Rosen (GMRI), and Patrick Sullivan (Cornell University); Project Title: *The Inshore Gulf of Maine Survey of Atlantic Herring Sentinel Spawning Grounds*
2. David Berlinsky (University of New Hampshire), David Goethel (F/V Ellen Diane; Hampton, NH), Adrienne Kovach (UNH), Frank Mirarchi (F/V Barbara L. Peters; Scituate, MA), Chris Odlin (F/V Lydia and Maya; Portland, ME), Vincenzo Russo (F/V Miss Trish II; Gloucester, MA), Rodman Sykes (F/V Debralee; Peace Dale, RI), Proctor Wells (F/V Tenacious; Phippsburg, ME), and Isaac Wirgin (New York University); Project Title: *Genetic Identification of Atlantic Cod Spawning Stocks in U.S. Waters Using Microsatellite and SNP DNA Markers*
3. Steven Cadrin (NOAA Fisheries Northeast Fisheries Science Center), Rodney Avila (F/V Trident; New Bedford, MA), David Goethel (F/V Ellen Diane; Hampton, NH), Stacy Kubis (NEFSC), Fred Mattera (F/V Travis & Natalie; West Kingston, RI), Luis Ribas (F/V Blue Skies; Provincetown, MA), and Azure Westwood (NEFSC); Project Title: *Yellowtail Flounder Study 2006*
4. Daniel Georgianna (University of Massachusetts–Dartmouth) and Debra Shrader (Shore Support; New Bedford, MA); Project Title: *Employment, Income, Working Conditions and Vessel Safety in New Bedford Before and After Amendment 13 to the Multispecies Management Plan*
5. Robert Glenn (Massachusetts Division of Marine Fisheries), John Barrett (F/V Susan T; Norwell, MA), John Carver (South Shore Lobstermen's Association), David Casoni (Massachusetts Lobstermen's Association), Susan Michaud (F/V Touch of Gray; Marblehead, MA), Fred and Wesley Penney (F/V Curmudgeon; N. Billerica, MA), Tracy Pugh (MADMF), Skip Ryan (F/V Finest Kind; N. Quincy, MA), Steve Voss (MADMF), and Steve Wilcox (MADMF); Project Title: *Cooperative Random Stratified Ventless Lobster Trap Survey in Massachusetts Bay – Year 2*
6. Cliff Goudey (Massachusetts Institute of Technology), Robert Damus (MIT), Robert Kohl (F/V Glenna & Jacob; Hyannis, MA), and Gary Loverich (Applied Fishing Technology; Bainbridge Island, WA); Project Title: *The Development and Demonstration of Acoustic Height Control for Trawl Doors*
7. Jonathan Grabowski (Gulf of Maine Research Institute), Robert Tetrault (T/R Fish; Portland, ME), Mathew Thomson (F/V Shear Water; Monhegan Island, ME), and Matthew Weber (F/V Griffin; Monhegan Island, ME); Project Title: *Evaluation of Closed Areas: Cashes Ledge as Juvenile Cod Habitat*
8. Pingguo He (University of New Hampshire), Vincent Balzano (F/V North Star; Portland, ME), Tim Eddy (F/V Persistence; Portland, ME), and Dan Schick (Maine Department of Marine Resources); Project Title: *Modifying the Nordmore Grid to Reduce Fish Discards and Small Shrimps in the Gulf of Maine Shrimp Fishery*
9. Hunt Howell (University of New Hampshire), Carl Bouchard (F/V Stormy Weather; Exeter, NH); Charles Felch, Sr. (F/V Lady Victoria; Seabrook, NH), David Goethel (F/V Ellen Diane; Hampton, NH), Pingguo He (UNH), and Marc Stettner (F/V Too Far; Portsmouth, NH); Project Title: *Activity and Distribution of Cod in the Ipswich Bay Spawning Area*
10. Dana Morse (University of Maine Sea Grant), Claudia Coffin (F/V Bad Penny; Edgecomb, ME), Bill Lee (F/V Ocean Reporter; Rockport, MA), and Kelo Pinkham (F/V Jeanne C; Trevett, ME); Project Title: *Building on Promise: Continued Investigation in Using a 4-Seam Bottom Trawl to Improve Escapement of Small Haddock and Cod*
11. Dana Morse (University of Maine Sea Grant), Kelo Pinkham (F/V Jeanne C; Trevett, ME), and Gayle Pinkham (F/V Jeanne C; Trevett, ME); Project Title: *The Use of Positively Buoyant Ground Cables and Sweep to Reduce Contact and to Enhance Species Selectivity*
12. Tom Rudolph (Cape Cod Commercial Hook Fishermen's Association), Jon Brodziak (NOAA Fisheries Northeast Fisheries Science Center), and Shelly Tallack (Gulf of Maine Research Institute); Project Title: *Haddock Migration in New England Waters: Year Two Analysis of Closed Area and Stock Boundaries*
13. Daniel Schick (Maine Department of Marine Resources), Hordur Honsson (VT Fishing Supplies; Iceland), Allyson Jordan (F/V Jamie & Ashley and F/V Theresa & Allyson; Portland, ME), and Les White (MEDMR); Project Title: *New Generation Trawl for Efficiency and Conservation*

14. Sally Sherman (Maine Department of Marine Resources), Yong Chen (University of Maine), Jeff Flagg (Portland Trawler Supply), Sam Galli (F/V Tara Lynn; Portland, ME), Douglas Grout (New Hampshire Department of Fish and Game), Linda Mercer (MEDMR), Curt Rice (F/V Robert Michael; Portland, ME), John Sowles (MEDMR), Keri Stepanek (MEDMR), and Robert Tetrault (T/R Fish, Inc.; Portland, ME); Project Title: *Continuation of the Maine/New Hampshire Inshore Trawl Survey*
15. Graham Sherwood (Gulf of Maine Research Institute), Laura Taylor Singer (GMRI); Catherine Salerno (GMRI); Bruce Kaminski (F/V Never Enough; Chatham, MA); Peter Taylor (F/V Seahound; Chatham, MA); Eric Hesse (F/V Tenacious; W. Barnstable, MA); John Shusta (F/V Special J; York, ME); Robert Odlin (F/V Maine Lady; Scarborough, ME); Project Title: *Is Closed Area I Serving as a Refuge for Haddock? A Prototype Study of Fine-Scale Movement through the Use of Acoustic Tagging Techniques*
16. Shelly Tallack (Gulf of Maine Research Institute) and Melissa Sanderson (Cape Cod Commercial Hook Fishermen's Association); Michael Anderson (F/V Bad Dog; Chatham, MA), Christopher Andrews (F/V Survivor; Westbrook, ME), William Chaprales (F/V Rueby; Marstons Mills, MA), James Eldredge (F/V Yellow Bird; West Chatham, MA), Kenneth Eldredge (F/V Fiasco; West Chatham, MA), Eric Hesse (F/V Tenacious; West Barnstable, MA), Roger Horne (F/V William Gregory; Chatham, MA), Bruce Kaminski (F/V Never Enough; Chatham, MA), Mark Leach (F/V Sea Holly; Harwich, MA), Glen Legeyt (F/V Miss Morgan; Hyannis, MA), Ted Ligenza (F/V Riena Marie; South Chatham, MA), Michael Russo (F/V Susan Lee; Orleans, MA), Peter Taylor (F/V Sea Hound; Chatham, MA), John Shusta (F/V Special J; York, ME) Project Title: *An Industry-Science Partnership Investigating the Short-Term and Long-Term Discard Mortality of Spiny Dogfish Using Hook Gear in Gulf of Maine Waters*
17. Karen Wilson (University of Southern Maine), Christopher Bartlett (University of Maine), David Turner (Commercial Fisherman; Eastport, ME), Larry Waxler (USM), and Theodore Willis (Maine Rivers; Augusta, ME); Project Title: *Ecological Role of Adult and Juvenile Anadromous Forage Fish in Downeast Maine Estuaries: Sea-Run Alewife and Groundfish Predators*

**2005 Continuing Collaborative Research Projects**  
(FY2004 projects. Second year funded in FY2005.)

1. Win Watson (University of New Hampshire), Diane Cowan (The Lobster Conservancy), Jason Goldstein (UNH); Bonnie Spinazzola (Atlantic Offshore Lobstermen's Association), and Michael Tlusty (New England Aquarium); Project Title: *The Influence of Water Temperature on the Distribution of Berried Females and Duration of Egg Development in American Lobsters*
2. Pingguo He (University of New Hampshire), Vincent Balzano (F/V North Star; Portland, ME), Tim Eddy (F/V Persistence; Portland, ME), and Paul Winger (Marine Institute; St. John's, Newfoundland); Project Title: *A High Opening Kite-Assisted Raised Footrope Trawl for Haddock and Pollack for the Gulf of Maine Multispecies Fisheries*

**FY2005 Outreach and Education in Support of Collaborative Research**

1. Laura Taylor Singer (Gulf of Maine Research Institute), Mary Beth Tooley (East Coast Pelagics' Association), and John Williamson (Industry Representative; Kennebunk, ME); Project Title: *Marine Resource Education Project*

**2005 Project Development Awards**

1. Ted Ames (Penobscot East Resource Center, Stonington, ME), Robin Alden (PERC), Brian Beal (University of Maine – Machias), Irv Kornfield (UMaine), Richard Wahle (Bigelow Laboratory for Ocean Sciences), and Carl Wilson (Maine Department of Marine Resources); Project Title: *Workshop to Plan the Evaluation of Community Hatchery-Based Lobster Enhancement*
2. Robert Bayer (Lobster Institute – University of Maine), Joseph Chalmers (Lobsterman; Southwest Harbor, ME), William Congleton (UMaine), William Fike (LI – UMaine), and John Riley (UMaine); Project Title: *Designing and Testing a Sublegal Lobster Sampling Trap*
3. Steve Eayrs (Gulf of Maine Research Institute), Daniel Salerno (GMRI), Shale Rosen (GMRI, Dave Marciano (Angelica Fisheries, Inc.; Gloucester, MA), John "Spice" Montgomery (F/V Chandelle; Gloucester, MA), Mike Pol (Massachusetts Department of Marine Fisheries), and Pete Shoares (Commercial Fisherman; Gloucester, MA); Project Title: *Testing Raised-Webbing Gillnets to Reduce Bycatch of Cod While Targeting Pollack*

4. Kathryn Ford (Massachusetts Division of Marine Fisheries), Olivia Free (Massachusetts Fishermen's Partnership), Sam Novello (Commercial Fisherman; Gloucester, MA), and Michael Pol (MADMF); Project Title: *Pilot Project to Test the Use of Side-Scan Sonar to Identify Seafloor Features Associated with Pre-Spawning and Spawning Cod Aggregations*
5. Salvatore Genovese (Northeastern University), Walter Barnhardt (United States Geological Survey), David Bergeron (Massachusetts Fishermen's Partnership), Olivia Rugo Free (MFP), B.G. Brown (Commercial Fisherman; Gloucester, MA), Madeleine Hall-Arber (MIT Sea Grant), and Anthony Wilbur (Massachusetts Coastal Zone Management); Project Title: *Pilot Project to Assess Need and Initialize a Methodology to Groundtruth Existing Multi-Beam and Side-Scan Sonar Seafloor Charts*
6. Pingguo He (University of New Hampshire) and Dennis Robillard (F/V Julie Ann II; Portsmouth, NH); Project Title: *Design and Test a Monkfish Grid to Reduce Juvenile Monkfish in the Gulf of Maine Multispecies Trawl*
7. Kenneth La Valley (New Hampshire Sea Grant); Kelo Pinkham (F/V Jeanne C.; Trevett, ME), Project Title: *To Explore the Potential for a Non-Trawl, Low Bycatch Means of Harvesting the Increasingly Abundant Haddock Resource*
8. Anne Richards (NOAA Fisheries Northeast Fisheries Science Center), Bridget Dunnington (NEFSC), and John Our (F/V Miss Fitz; Chatham, MA); Project Title: *Development of Tagging Methods for Monkfish, *Lophius americanus**
9. Daniel Salerno (Gulf of Maine Research Institute), Catherine Salerno (GMRI), Larry Knapp (F/V Lady Esther; Boothbay, ME), and Laura Taylor Singer (GMRI); Project Title: *Testing a Fixed Gear Resource Survey Method for Inshore Areas*
10. James Sulikowski (University of New England), Paul Tsang (University of New Hampshire), Joe Jurek (F/V Mystique Lady; Andover, MA); Project Title: *Field Testing of a Novel Application to Examine Habitat Use and Migration Patterns of the Spiny Dogfish (*Squalis acanthias*) in the Western Gulf of Maine*
11. John Williamson (F/V Sea Keeper; Kennebunk, ME) and Bill Lee (F/V Ocean Reporter; Rockport, MA); Project Title: *Development of Video Exploration and Mapping Capability, Tools and Methods*



**Northeast Consortium  
FY2006 Collaborative Research Projects**

1. Brian Beal (University of Maine), Colon Alley (Commercial Fisherman; Jonesport, ME), Jeff Alley (Commercial Fisherman; Jonesport, ME), Maurice Alley (Commercial Fisherman; Beals, ME), Preston Alley (Commercial Fisherman; Beals, ME); Raymond Alley (Commercial Fisherman, Jonesport, ME); Robert Alley, Jr. (Commercial Fisherman; Jonesport, ME), Chris Bartlett (Maine Sea Grant), Ernest Kelley, Jr. (Commercial Fisherman; Jonesport, ME), Terry Stockwell (Maine Department of Marine Resources), Project Title: *A Collaborative Effort to Examine New Strategies for Managing Closed Bottom Habitats for Sea Scallops*
2. Steve Eayrs (Gulf of Maine Research Institute), Stephen Lee (F/V Kristen Lee; Berwick, ME), and Mike Pol (Massachusetts Division of Marine Fisheries); Project Title: *Analysis of Size Selectivity and Bycatch in the Gillnet Fishery for Monkfish*
3. Ray Grizzle (University of New Hampshire), Hunt Howell (UNH), Peter Kendall (F/V Miss Alicia; Rye, NH), and Mike Leary (F/V Lori B; Hampton Falls, NH); Project Title: *Effects of the Western Gulf of Maine Closure Area on Groundfish Populations in Rocky Habitats*
4. Rebecca Jones (University of New Hampshire), Jeffrey Runge (UNH), Brad Parady (Commercial Fisherman; Kittery, ME), and Kelo Pinkham (F/V Jeanne C.; Trevett, ME); Project Title: *Development of a Juvenile Shrimp Trap for use in Establishing a Juvenile Abundance Index for the Gulf of Maine Northern Shrimp, *Pandalus borealis**
5. James Manning (NOAA Fisheries Northeast Fisheries Science Center), John Carver (South Shore Lobstermen's Association), David Casoni (Massachusetts Lobstermen's Association), Jeremy and Charlene Cates (Downeast Lobstermen's Association), Phil Mason (Commercial Fisherman; MA), Patrice McCarron (Maine Lobstermen's Association), and Bonnie Spinazzola (Atlantic Offshore Lobstermen's Association); Project Title: *Environmental Monitors on Lobster Traps Phase V (eMOLT): Real Time Temperature*
6. Jeffrey Runge (University of New Hampshire), Erik Anderson (F/V Kris n' Kev; Portsmouth, NH), B. G. Brown (F/V Kathryn Leigh; Gloucester, MA), Olivia Free (Massachusetts Fishermen's Partnership), Rebecca Jones (UNH), Peter Kendall (F/V Kelly Rose and F/V Elizabeth Ann; Rye, NH), George Littlefield (F/V Lady Regena; Kensington, NH), Peter Marshall (F/V Venture; Gloucester, MA), Craig Mavrikis (F/V Marion Mae; Eliot, ME), Daniel Murphy (F/V Bantry Bay; Gloucester, MA), Dennis Robillard (F/V Julie Ann II; Eliot, ME), and Alan Vangile (F/V Special K; Portsmouth, NH); Project Title: *PULSE: A Cooperative Partnership for Pelagic Ocean Ecosystem Monitoring in the Gulf of Maine*
7. Graham Sherwood (Gulf of Maine Research Institute), Jon Grabowski (GMRI), Kelo Pinkham (F/V Jeanne C.; Trevett, ME), and Proctor Wells (F/V Tenacious; Phippsburg, ME); Project Title: *Exploring the Potential Inadvertent Effects of Gulf of Maine and Georges Bank Area Closures on Cod Life-history Variation.*
8. Richard Wahle (Bigelow Laboratory for Ocean Sciences), Norbert Lemieux (F/V Christina-Marie; Cutler, ME); John O'Leary (F/V Captain Bligh; Wakefield, RI), Matt Parkhurst (F/V Sea Spray; Boothbay Harbor, ME), and Carl Wilson (Maine Department of Marine Resources); Project Title: *Testing a Method to Evaluate Deepwater Settlement of the American Lobster*

**2006 Continuing Collaborative Research Projects  
(FY2005 projects. Second year funded in FY2006.)**

1. David Berlinsky (University of New Hampshire), David Goethel (F/V Ellen Diane; Hampton, NH), Adrienne Kovach (UNH), Frank Mirarchi (F/V Barbara L. Peters; Scituate, MA), Chris Odlin (F/V Lydia and Maya; Portland, ME), Vincenzo Russo (F/V Miss Triss II; Gloucester, MA), Rodman Sykes (F/V Debralee; Peace Dale, RI), Proctor Wells (F/V Tenacious; Phippsburg, ME), and Isaac Wirgin (New York University); Project Title: *Genetic Identification of Atlantic Cod Spawning Stocks in U.S. Waters Using Microsatellite and SNP DNA Markers*
2. Jonathan Grabowski (Gulf of Maine Research Institute), Robert Tetrault (T/R Fish; Portland, ME), Mathew Thomson (F/V Shear Water; Monhegan Island, ME), and Matthew Weber (F/V Griffin; Monhegan Island, ME); Project Title: *Evaluation of Closed Areas: Cashes Ledge as Juvenile Cod Habitat*
3. Tom Rudolph (Cape Cod Commercial Hook Fishermen's Association), Jon Brodziak (NOAA Fisheries Northeast Fisheries Science Center), and Shelly Tallack (Gulf of Maine Research Institute); Project Title: *Haddock Migration in New England Waters: Year Two Analysis of Closed Area and Stock Boundaries*

4. Karen Wilson (University of Southern Maine), Christopher Bartlett (Maine Sea Grant), David Turner (Commercial Fisherman; Eastport, ME), Larry Waxler (USM), and Theodore Willis (Gulf of Maine Research Institute); Project Title: *Ecological Role of Adult and Juvenile Anadromous Forage Fish in Downeast Maine Estuaries: Sea-Run Alewife and Groundfish Predators*

#### **FY2006 Outreach and Education in Support of Collaborative Research**

1. Laura Taylor Singer (Gulf of Maine Research Institute), Mary Beth Tooley (East Coast Pelagics' Association), and John Williamson (Industry Representative; Kennebunk, ME); Project Title: *Marine Resource Education Project*

#### **FY2006 Project Development Awards**

1. Pingguo He (University of New Hampshire), Vincent Balzano (F/V North Star; Saco, ME); Project Title: *Design and Test of a Wheeled Footgear to Reduce Seabed Impact of Trawling*
2. Hunt Howell, Christopher Gurshin, Larry Mayer, Tom Weber (University of New Hampshire); Carl Bouchard (F/V Stormy Weather; Exeter, NH); Charles Felch (F/V Lady Victoria; Seabrook, NH); J. Michael Jech (Northeast Fisheries Science Center, Woods Hole, MA); Project Title: *Development of Multi-Beam Sonar as a Fisheries Tool for Stock Assessment and Essential Fish Habitat Identification of Groundfish in the Western Gulf of Maine*
3. Bill Lee (F/V Ocean Reporter; Rockport, MA), Kenneth La Valley (University of New Hampshire), Phil Michaud (F/V Susan C III; Provincetown, MA), Dennis O'Connell (F/V Lady Elaine; Rockport, MA), Jay Vanderpool (F/V Alyssa; Rockport, MA); Project Title: *An Alternative to Observer Discard & Fishing Effort Reporting*
4. Laura Ludwig (Gulf of Maine Lobster Foundation), Chris Heinig (Maine Environmental Resources Assessment Corp.), Oscar W. Look, III (F/V Time-n-Tide; Beals Island, ME), Neal Pettigrew (University of Maine; GOMOOS); Project Title: *Determining Effect of Eastern Maine Bottom Currents on Groundlines*
5. James Sulikowski (University of New England), Charles Felch (F/V Lady Victoria; Seabrook, NH), Joe Jurek (F/V Mystique Lady; Andover, MA), James Mandelman (New England Aquarium); Project Title: *The Design, Development, and Field Testing of an Innovative Circular Net Pen to be Used to Assess Bycatch Mortality of Atlantic Cod at Sea*
6. Shelly Tallack (Gulf of Maine Research Institute), Christopher Andrews (F/V Survivor; Portland, ME); Project Title: *Do Rare Earth Metals Deter Spiny Dogfish? A Feasibility Study on the Use of Mischmetals to Reduce Dogfish Catches in Hook and Lobster Gear in the Gulf of Maine*

#### **Northeast Consortium FY2007 Collaborative Research Projects**

1. Steve Eayrs, Gulf of Maine Research Institute (GMRI); and Maggie Raymond, Associated Fisheries of Maine (vessel participation coordinator); Gerry Cushman (F/V Windsong; Port Clyde, ME); Terry Alexander (F/V Jocka; Cundy's Harbor, ME); Troy Bichrest (F/V Pamela Gracy, Cundy's Harbor, ME); Marshall Alexander (F/V DeeDee Mae II; Biddeford, ME); Anthony Fernandes (F/V Rhiannon Rae; Kittery, ME); Stephen Lee (F/V Kirsten Lee; Portsmouth, NH); Peter Kendall (F/V Elizabeth Ann; Portsmouth, NH); Project Title: *A contemporary assessment of the bycatch of regulated species and the Nordmore Grate in the northern shrimp fishery*
2. Elizabeth Fairchild, W. Hunt Howell, UNH; Michael Armstrong, Mass. Division of Marine Fisheries; David Goethel (F/V Ellen Diane; Hampton, NH); Carl Bouchard (F/V Stormy Weather; Exeter, NH); Charles Felch, Sr. (F/V Lady Victoria; Seabrook, NH) Project Title: *Spawning movement and habitat use of winter flounder in the southern Gulf of Maine*
3. Margaret Hunter, Maine Department of Marine Resources; Marcus Jones; (F/V Lora Lee Too; Steuben, ME); Project Title: *Examining fishing practices of divers in the Maine sea urchin fishery*
4. Molly Lutcavage, Ben Galuardi, Large Pelagics Research Center, UNH; Tom Weber, Larry Mayer, Center for Coastal and Ocean Mapping, UNH; Gary Melvin, DFO Canada; Joseph Powers, LSU; Billy Muniz (F/V Lily); George Purmont (Pura Vida, Inc.); Project Title: *Acoustic assessment of juvenile bluefin tuna aggregations: a feasibility study*

5. Judith Pederson, Victor Polidoro, Greg Booma, MIT Sea Grant; William Schwab, Page Valentine, USGS; Vincent Guida, NMFS; Jim Ford (F/V Lisa Ann II, Kingston, NH); Project Title: *Regional proposal to test sensors for detecting the sea squirt, Dedemnum sp. A on Georges Bank*
6. Michael Pol, David Chosid, Mark Szymanski, Mass. Div. of Marine Fisheries; David Martins, UMass Dartmouth; Robert Marcella (F/V Ann Marie, Hull, MA); Kelo Pinkham (F/V Jeanne C; Trevett, ME); Project Title: *POTYEAR: Determining the seasonality of cod pots*
7. Anne Richards, Northeast Fisheries Science Center; Jon Grabowski, Graham Sherwood, Curt Brown, Gulf of Maine Research Institute; Larry Alade, NEFSC; John Our (F/V Miss Fitz, Chatham, MA); T. Hill (Rockport, MA); K. Wark (Barnegat Light, NJ) Project Title: *Archival Tagging Study of Monkfish, Lophius americanus*

#### **FY2007 Project Development Awards**

1. David Chosid, Michael Pol, Mark Szymanski, Mass. Division of Marine Fisheries; Frank & Andrew Mirarchi (F/V Barbara L. Peters; Scituate, MA); Project Title: *DOGGRATE: Development of a spiny dogfish excluder in a raised footrope whiting trawl*
2. Jeffrey Runge, Rebecca Jones, GMRI; Peter Kendall (F/V Miss Alicia, Portsmouth, NH); Mary Beth Tooley, Small Pelagics Group; David Ellenton, Cape Seafoods; Project Title: *Analysis of herring diet in coastal waters of the Gulf of Maine: a step toward assessment of bottom up ecosystem influences on Atlantic herring distribution and condition in coastal waters of the Gulf of Maine*
3. Vitalii Sheremet, University of Rhode Island; Jim Manning, NEFSC; Erin Pelletier, Gulf of Maine Lobster Foundation (vessel coordinator); Project Title: *Environmental Monitors on Lobster Traps (eMOLT) VI: Bottom Currents*

**Northeast Consortium  
FY2009 Collaborative Research Projects**

1. Elizabeth Fairchild, University of New Hampshire (UNH); Shelly Tallack, (GMRI); Carl Bouchard (F/V Stormy Weather; Exeter, NH); Jim Ford (F/V Lisa Ann, Kingston, NH); Michael Armstrong, MA Division of Marine Fisheries; Project Title: *Defining Atlantic wolfish aggregations in Massachusetts Bay*
2. Hunt Howell, UNH; Chris Gurshin, Normandeau Associates; Mike Jech, NEFSC; Charles Felch (F/V Lady Victoria; Seabrook, NH); David Goethel (F/V Ellen Diane; Hampton, NH); Dennis Robillard (F/V Julie Ann II; Portsmouth, NH); Project Title: *Synoptic acoustic and trawl surveys to characterize biomass and distribution of the spring spawning aggregations of Atlantic cod in Ipswich Bay*
3. Erin Pelletier, Gulf of Maine Lobster Foundation; James Manning, NEFSC; Vitalii Sheremet, University of Rhode Island – Graduate School of Oceanography; Project Title: *Validation of New England's Coastal Circulation: Environmental Monitors on Lobster Traps (eMOLT) VII*
4. Keri Stepanek, Sally Sherman and Andrew Gowen; Maine Dept. of Marine Resources (ME-DMR); Kelo Pinkham, (F/V Jeanne C; Trevett, ME); Rick Trundy (F/V Crossfire; Deer Isle, ME); Project Title: *Movement and migration patterns of winter flounder (*Pseudopleuronectes americanus*) tagged along the Maine coast*
5. Jason Stockwell and Adam Baukus, Gulf of Maine Research Institute; Mark Bichrest (DBA Margaret F, Inc.; Harpswell, ME); Timothy Stanton, Woods Hole Oceanographic Institution; Thomas Weber, UNH; Project Title: *Application of broadband sonar technology for fisheries assessment and research*

**FY2009 Project Development Awards**

1. Adam Baukus and Steve Eayrs, Gulf of Maine Research Institute (GMRI); Jerry O'Neill (Cape Seafoods, Inc.; Gloucester, MA); Project Title: *Herring Sorting Grid*
2. Steve Eayrs (GMRI); James Frank (F/V Iroquois; Washington, ME); Project Title: *Evaluating the practicality and economic viability of a pilot redfish jig fishery*
3. Shelly Tallack, GMRI; Jon Williams, New England Red Crab Harvesters' Association; Project Title: *Is the OLFISH electronic monitoring system a feasible tool for improving fishery-dependent data for the deep water red crab fishery?*

**FY2009 Outreach and Education in Support of Collaborative Research**

1. Jennifer Levin and Steve Eayrs (GMRI); Project Title: *Environmental Management System training for fishermen*

**Northeast Consortium  
FY2009 Supplemental Project Development Awards**

1. David Berlinsky and Adrienne Kovach, University of New Hampshire (UNH); Erik Chapman, UNH/NH Sea Grant; David Goethel (F/V Ellen Diane; Hampton, NH); Christopher Odlin (F/V Lydia and Maya; Scarborough, ME); Project Title: *Understanding the biological characteristics of the Acadian redfish in U.S. waters.*
2. Michael Brown, Maine Department of Marine Resources; Rob Bernat (Commercial Fisherman, Woolwich, ME); Brett Gilliam (Commercial Fisherman, Phippsburg, ME); Dan Harriman (Commercial Fisherman, Cape Elizabeth, ME); Project Title: *Reducing juvenile alewife, blueback, and American shad bycatch in the coastal pound net and floating fish trap fisheries.*
3. Steve Cadrin and Adam Barkley, University of Massachusetts – Dartmouth; Jim Keding (Commercial Fisherman, Plymouth, MA); Project Title: *Estimation of discard mortality of yellowtail and winter flounder.*
4. Elizabeth Fairchild and Shelley Edmundson, UNH; Carl Flanders (F/V Sherry Lynn; Chilmark, MA); Peter Begley (F/V Eulah McGrath; Rye, NH); Mohawk Bolin (F/V Rock & Roll;; Edgartown, MA); Wesley Brighton (F/V Martha Elizabeth; Menemsha, MA); Project Title: *Studying the population structure of the channeled whelk (*Busycotypus canaliculatus*) fishery.*
5. Kenneth LaValley and Erik Chapman, UNH/NH Sea Grant; Dennis Robillard (F/V Julie Ann II; Eliot, ME); Project Title: *Modified shrimp trawl for deep water bycatch reduction and size sorting.*
6. Molly Lutcavage, University of Massachusetts – Amherst; Yuri Rzhanov, Tom Weber, Shachak Pe'eri, UNH; Michael Jech, NOAA Fisheries; Benjamin Galuardi, University of Massachusetts – Amherst; Bill Muniz (F/V Lily; Gloucester, MA); George Purmont (Spotter Pilot; Pura Vida , Inc.; Little Compton, RI); Mark Brochu (Spotter Pilot); Project Title: *Direct assessments of juvenile Atlantic bluefin tuna using sonar and aerial technologies: Optimizing detection methods.*
7. Graham Sherwood and Jonathan Grabowski, Gulf of Maine Research Institute; Mark Stettner (F/V Too Far; Portsmouth, NH); Project Title: *Video and hook-and-line survey to further knowledge of cusk (*Brosme brosme*) habitat preferences.*
8. James Sulikowski, University of New England; J. Kohl Kanwit, Maine Department of Marine Resources; Charles Felch (F/V Lady Victoria; Seabrook, NH); Project Title: *The use of settlement collectors to investigate the early life history of Atlantic wolffish (*Anarhichas lupus*) and cusk (*Brosme brosme*) in the Gulf of Maine.*
9. Winsor Watson, UNH; Jason Goldstein and David Shay, UNH; Edward Heaphy (F/V Lady Martha; Dover, NH); Mark Regoulinsky (F/V Crystal Calnan; Portsmouth, NH); Gary Glidden (F/V Last Penny; Rye, NH); Michael Flanigan (F/V Sally Rochelle; Rye, NH); Edward Foye (F/V Norman & Mary; Eliot, ME); Brad Parady (F/V Angela and Ashley; York, ME); Project Title: *Biological and oceanographic mechanisms influencing lobster larvae dispersal in NH coastal waters.*