NORTHEAST CONSORTIUM Annual Report

Project Title: Archival Tagging Study of Monkfish, Lophius americanus

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PI Contact Information:

Dr. Anne Richards NEFSC 166 Water St. Woods Hole, MA 02543 Tel.: (508) 495-2305

Fax: (508) 495-2393

Anne.Richards@noaa.gov

Dr. Jon Grabowski Gulf of Maine Research Institute 350 Commercial St Portland, ME 04101 Tel. 207-228-1644 Fax 207-772-6855 jgrabowski@gmri.org

Dr. Graham Sherwood Gulf of Maine Research Institute 350 Commercial St Portland, ME 04101 Tel. 207-228-1644 Fax 207-772-6855 gsherwood@gmri.org

Project Participants

Scientists	Industry members
Dr. Anne Richards	Curt Brown
NEFSC 166 Water St.	Gulf of Maine Research Institute
Woods Hole, MA 02543	350 Commercial Street
Tel.: (508) 495-2305	Portland, ME 04101
Fax: (508) 495-2393	
Anne.Richards@noaa.gov	
Dr. Jon Grabowski	Ted Platz
Gulf of Maine Research Institute	F/V Gertrude H.
350 Commercial St	Ocean Harvest, Inc.
Portland, ME 04101	Newport, RI
Tel. 207-228-1644	
Fax 207-772-6855	
jgrabowski@gmri.org	
Dr. Graham Sherwood	Tim Caldwell
Gulf of Maine Research Institute	F/V C.W. Griswold
350 Commercial St	Swanville, ME
Portland, ME 04101	
Tel. 207-228-1644	
Fax 207-772-6855	
gsherwood@gmri.org	
Dr. Larry Alade	
NEFSC 166 Water St.	
Woods Hole, MA 02543	
Tel. (508) 495-2085	
Fax: (508) 495-2393	
Larry.Alade@noaa.gov	
Crista Bank	
University of Massachusetts	
School for Marine Science and Technology	
200 Mill Road, Fairhaven, MA 02719	
(508) 910-6380 voice	
(508) 910-6396 fax	
cbank@umassd.edu	

Project objectives and scientific hypotheses

The primary objectives of this project are (1) to investigate movements of monkfish (including deepwater excursions) among the southern and northern U.S. management regions and Canadian waters, and (2) to validate aging methods for monkfish. Additional objectives are to learn about monkfish behavior, including off-bottom excursions that may be related to transport on ocean currents and/or spawning behavior; activity rhythms in relation to tidal cycles; and habitat (depth-temperature) associations. We hypothesize that monkfish move extensively and that there is exchange between fishery management areas and a possible deepwater excursion by maturing females from the southern area.

Major Accomplishments and Milestones

We have taken 5 day-trips to release DST-tagged monkfish in the Gulf of Maine and southern New England:

Date	Vessel	Tagging Location	Captain	Number Tagged
1/13/2009	Gertrude H	So. New England	Ted Platz	16
7/23/2009	Gertrude H	So. New England	Ted Platz	26
10/16/2009	C.W. Griswold	W. Gulf of Maine	Tim Caldwell	6
10/26/2009	C.W. Griswold	W. Gulf of Maine	Tim Caldwell	43
11/10/2009	Gertrude H	So. New England	Ted Platz	54
		Total DSTs		
		released	W. Gulf of Maine	49
			So. New England	96
			Total	145
			Tags remaining	45

We have begun outreach efforts, including increased web presence (http://www.nefsc.noaa.gov/read/popdy/monkfish/Survey2009/taggingstudy.htm), press releases to be released in late January, and a cover article scheduled to appear in Commercial Fisheries News in late January.

We have prepared dissection and sample collection kits and protocols to be followed when monkfish are returned with DSTs.

Some photos from the tagging trips can be found at the end of this report.

Project Alterations

The work under this project has been supplemented by a 2008 monkfish RSA grant awarded to Grabowski and Sherwood (GMRI), which increased the number of tags to be released in each site.

Next Steps (6 months)

We will release the remaining 45 tags in the Gulf of Maine and continue with our outreach efforts. We will focus on outreach during April and May, when catches of monkfish begin to increase during the spring onshore migration.



Figure 1. Tagging set-up with holding tank in foreground and tagging apparatus in background.



Figure 2. Apparatus for tagging monkfish while keeping them submerged. Note incision on monkfish ready for tag insertion. Measuring board is embedded in base of box.



Figure 3. Tagged monkfish showing location of data storage tag and pink external tags



Figure 4. Monkfish being released after tagging operation.

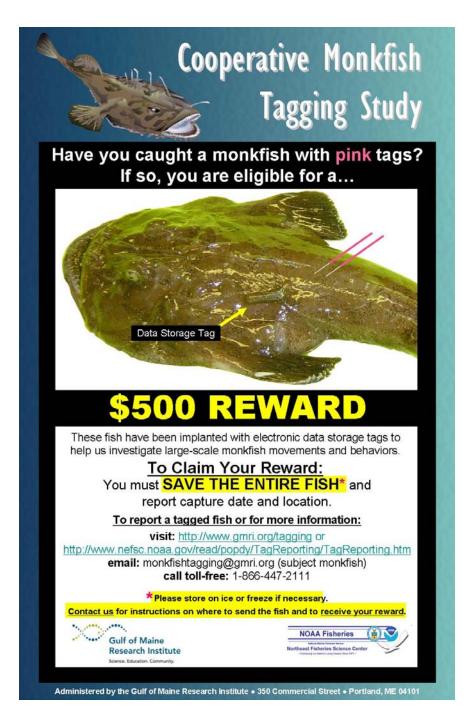


Figure 5. Poster for outreach for archival tagging study.