

# **Photographic Documentation**

Industry-Based Survey  
for  
Gulf of Maine Cod  
Pilot Study

Photographic documentation of the implementation of the IBS for GOM cod pilot study



Picture 1



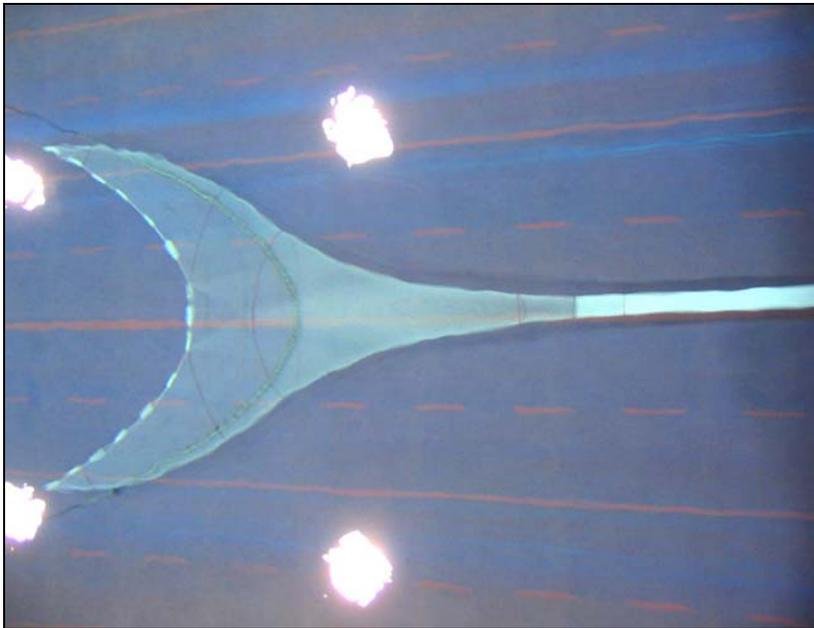
Members of the cod IBS at Memorial Institute Flume Tank Newfoundland, CA

Picture 2



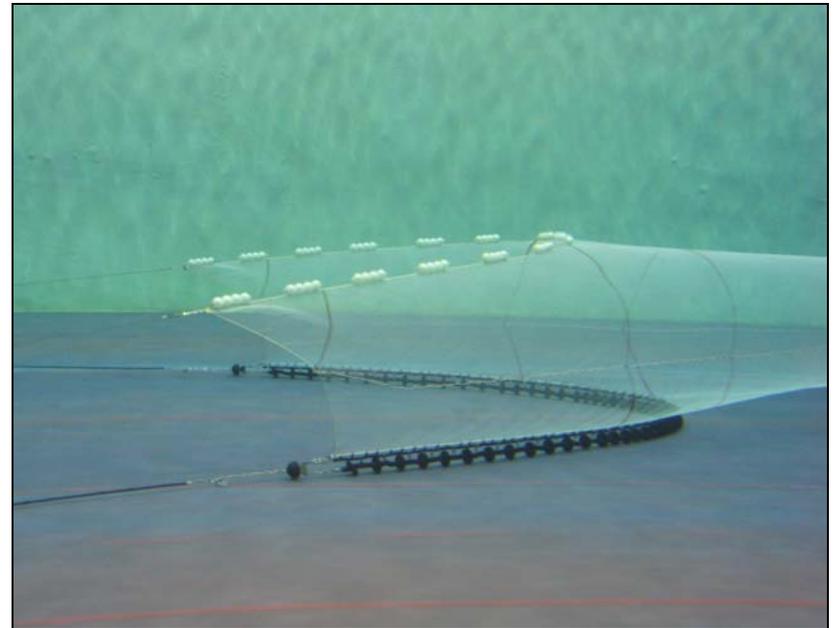
Tor Bendikson (Reidar's Manufacturing), Thomas Moth-Poulsen (MA DMF) and Glenn Blackwood (MI), inspect the trawl net model to be tested in the flume tank

Picture 3



Overhead view of the cod IBS survey trawl, the Reidar's 360

Picture 4



Side view of the cod IBS survey trawl, the Reidar's 360

Picture 5



Cod IBS contracted commercial otter trawl vessel the F/V Jocka

Picture 6



Cod IBS contracted commercial otter trawl vessel the F/V Titan

Picture 7



Cod IBS contracted commercial otter trawl vessel the F/V Lisa Ann II

Picture 8



Cod IBS contracted commercial otter trawl vessel the F/V Lady Jane

Picture 9



During a pre-survey training meeting, Terry Alexander (F/V Jocka) receives instruction from the manufacturers of NETMIND on the use of the survey's net mensuration system

Picture 10



Loading the survey gear with a boom truck to be delivered to the vessels

Picture 11



Hans Bendiksen (Reidar's Manufacturing) and MA DMF staff assisting the crew of the F/V Titan loading the survey's trawl net in preparation of the survey.

Picture 12



The F/V Jocka winds the survey trawl onto the net reel in Portland, ME

Picture 13



MA DMF scientists work with Jim Ford and the crew of the Lisa Ann II during pre-survey net calibration exercises

Picture 15



Crew of the F/V Lady Jane setting out the trawl

Picture 14



Retrieving the survey trawl after a day of calibration work

Picture 16



Large bag of groundfish

Picture 17



Large tow of cod

Picture 18



MA DMF scientist and contracted observer sort the catch

Picture 19



Crew of the F/V Lady Jane sort long-horn sculpins into a basket

Picture 20



Large survey tow of predominantly redfish

Picture 21



Contracted scientific staff collects data on a NEFSC Survey log

Picture 22



Crew of the F/V Jocka and contracted scientist sort a small catch off Downeast ME

Picture 23



Crew of the F/V Lady Jane assist scientists in collecting individual species weights

Picture 24



Sea sampler collects age structures from a cod on the F/V Titan

Picture 25



Work station on the F/V Lisa Ann II

Picture 26



Hauling gear aboard in poor weather with deck wash

Picture 27



Two ripe and running seventy-pound cod that were caught in Ipswich Bay

Picture 28



One year old cod caught in Massachusetts Bay

Picture 29



Crew on the F/V Lady Jane repairs the belly of the survey net

Picture 30



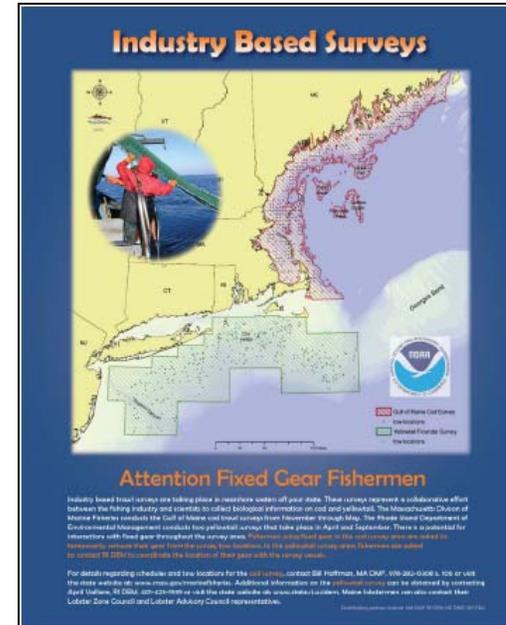
Russell Sherman (F/V Lady Jane) assisting crew to repair a wing

Picture 31



In cooperation with North Star Technical, the manufacturers of the NETMIND, Jim Ford discusses the application of the net mensuration system.

Picture 32



Poster that was produced with guidance from the IBS outreach sub-committee and printed by NOAA/NCRPP

Picture 33



Ghost gear (lobster traps) being removed from survey trawl net.

Picture 34



Ghost gill net gear being lifted out of the trawl net with aid of a hydraulic winch

Picture 35



MA DMF staff hangs a submersible camera on trawl to observe and film the performance of the survey trawl

Picture 36



Hauling the camera cable aboard during haulback

Picture 37



Dedicated IBS staff and MA DMF staff ignite flares during a safety training class that was instructed by the North East Safety Training Co (NEST)

Picture 38



U.S. Coast Guard giving a demonstration on a damage control trainer of techniques used for emergency repairs to a damaged vessel

Picture 39



MA DMF scientist releases a parachute flares over Gloucester Harbor

Picture 40



Students learn the proper techniques used to combat a fire aboard a vessel