MENH Inshore Trawl Survey

- Maine Department of Marine Resources
 - New Hampshire Fish and Game



Sally Sherman

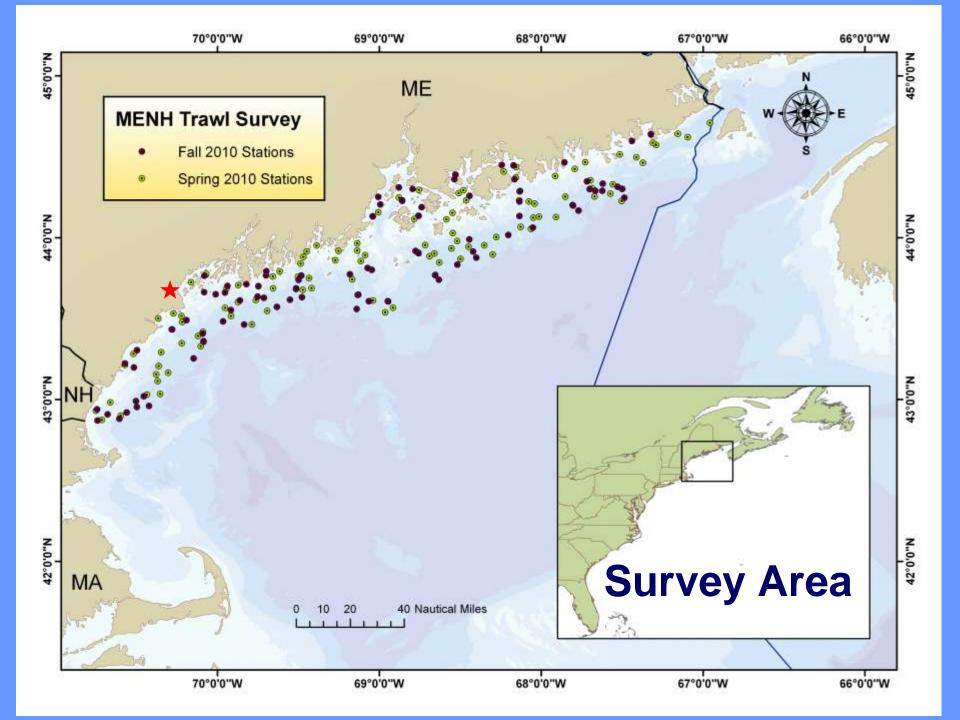
Maine Department of Marine Resources

Supported by NOAA NMFS NCRP



Survey Goals

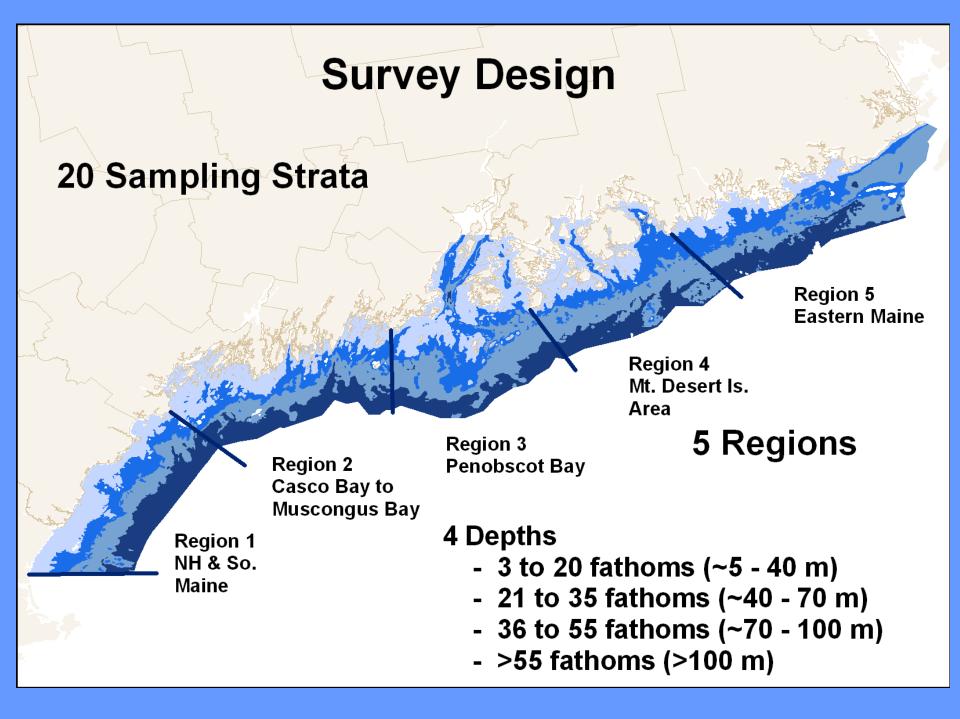
- > To fill in an information gap in near shore Maine and New Hampshire waters for fisheries-independent data
- > To gather biological information (age at length, sexual maturity, food habits, and habitat use).
- > To consistently provide data that is valued by both industry members and scientists
- > To foster collaborative research between scientists and the fishing industry



Timeline

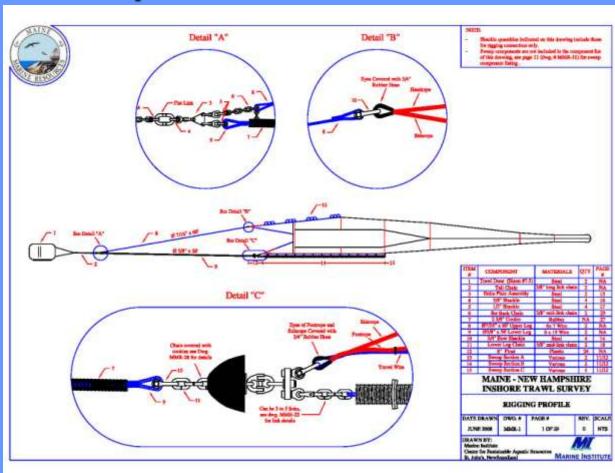
- Began in October 2000
- Semiannual, spring and fall
- Protocols Manual 2005
- Peer Review 2005
- Gear Manual 2008
- In our 11th year





Net Design

- Modified shrimp net: 2-inch stretched measure polyethylene mesh
- Headrope is 57' and footrope is 70'
- Cod end:
- 2-inch s.m.
- with 1-inch s.m.
- liner
- Roller Frame:
- 6" rubber disks,
- 10' bosom section
- with 8" disks



Survey Operations

- Commercial Fishing Vessel F/V Robert Michael
- Five weeks 1 region per week
- Goal is 120 tows per season, 20 stations are 'fixed'
- 20 minute tows at 2.5 knots; ~0.8 NM
- Survey for suitable bottom and fixed gear
- Tows are straight, aligned with dominant currents whenever possible
- 4-6 tows a day, daylight hours only

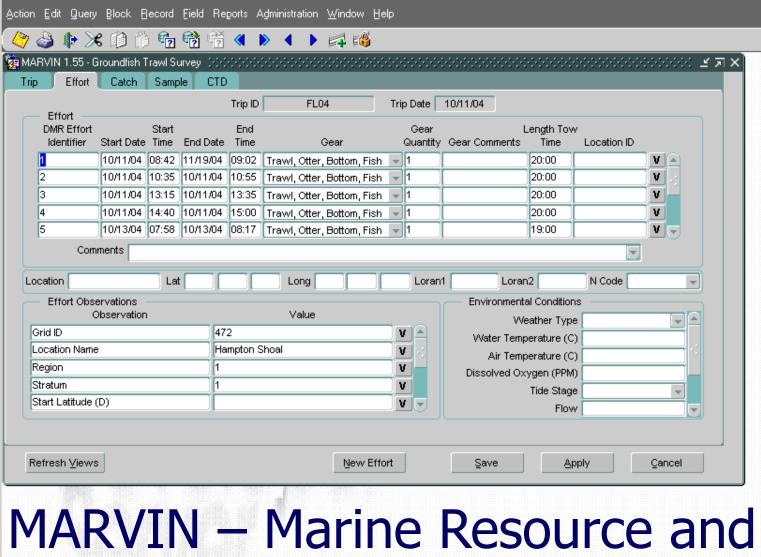


Biological Sampling

- Maturity for selected species, carried out on board
- Otoliths collected for selected species
- ~25 individuals, one fish per centimeter
- Stages determined according to Burnett, et. al. (1989)



Burnett, J., L. O'Brien, R.K. Mayo, J.A. Darde, M. Bohan. 1989. Finfish Maturity Sampling and Classification Schemes Used During Northeast Fisheries Center Bottom Trawl Surveys, 1963-89. NOAA Tech. Memo. NMFS-F/NEC-76



Oracle Developer Forms Runtime - Web

MARVIN – Marine Resource and Environmental Information System



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ORACLE

Data Products

- Seasonal abundance indices for approximately 25 species of finfish and invertebrates
- Catch at length data and plots
- Distribution maps
- Cruise summaries and highlights
- Specific analyses and data provided on request
- www.maine.gov/dmr/rm/trawl/reports.htm