

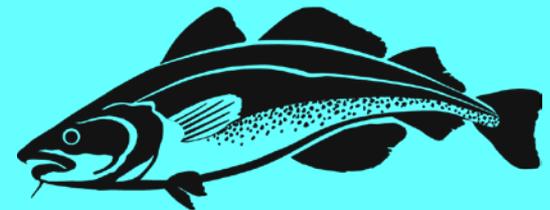
Massachusetts Division of Marine Fisheries Inshore Bottom-Trawl Survey

Presented by Jeremy King

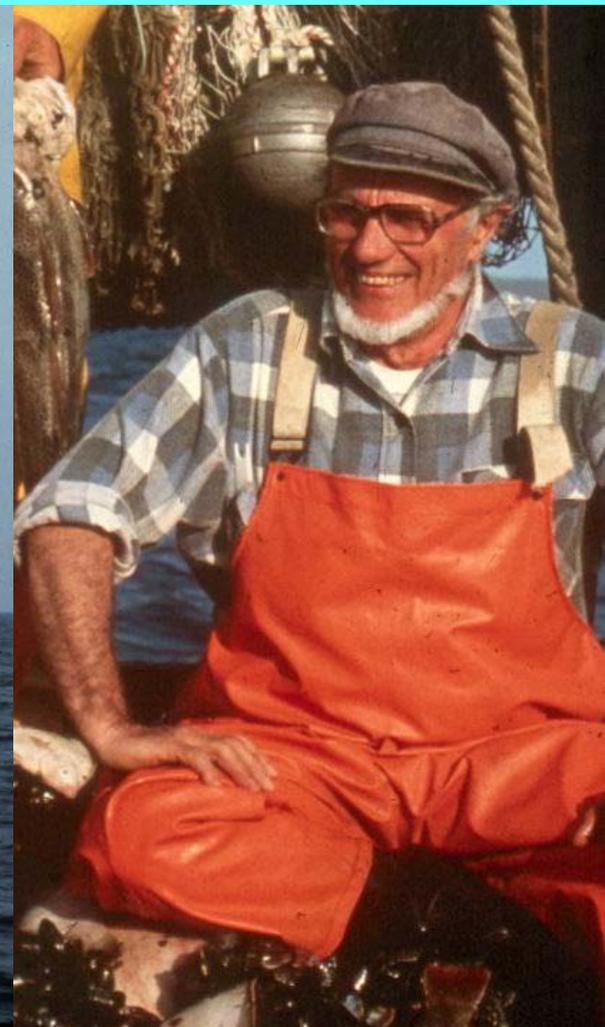
Fishermen's Groundfish Science Forum
November 9, 2012
Portsmouth, NH



Marine Fisheries
Commonwealth of Massachusetts



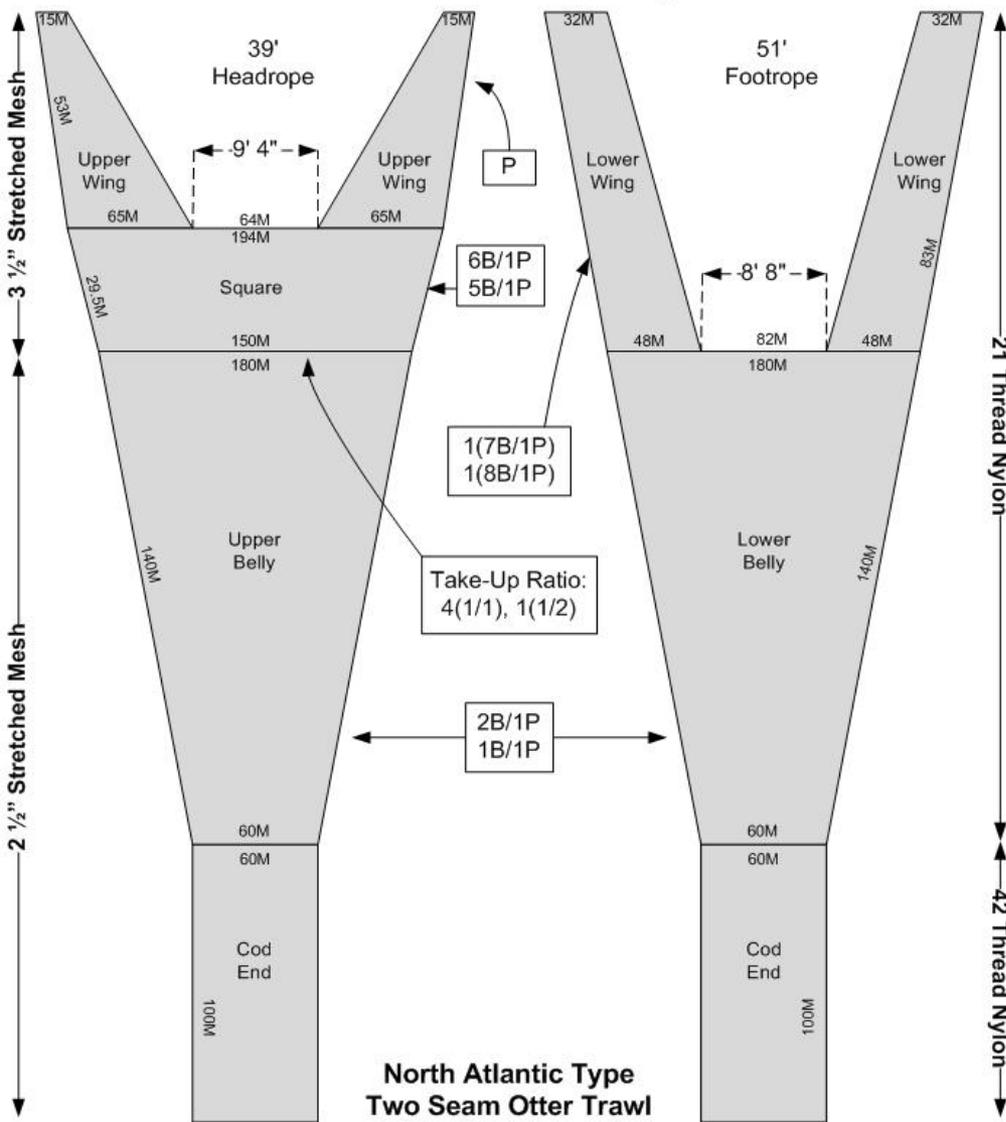
F/V Frances Elizabeth 1978 - 1981



R/V Gloria Michelle 1982 –



Massachusetts Division of Marine Fisheries Inshore Bottom Trawl Survey Net Plan

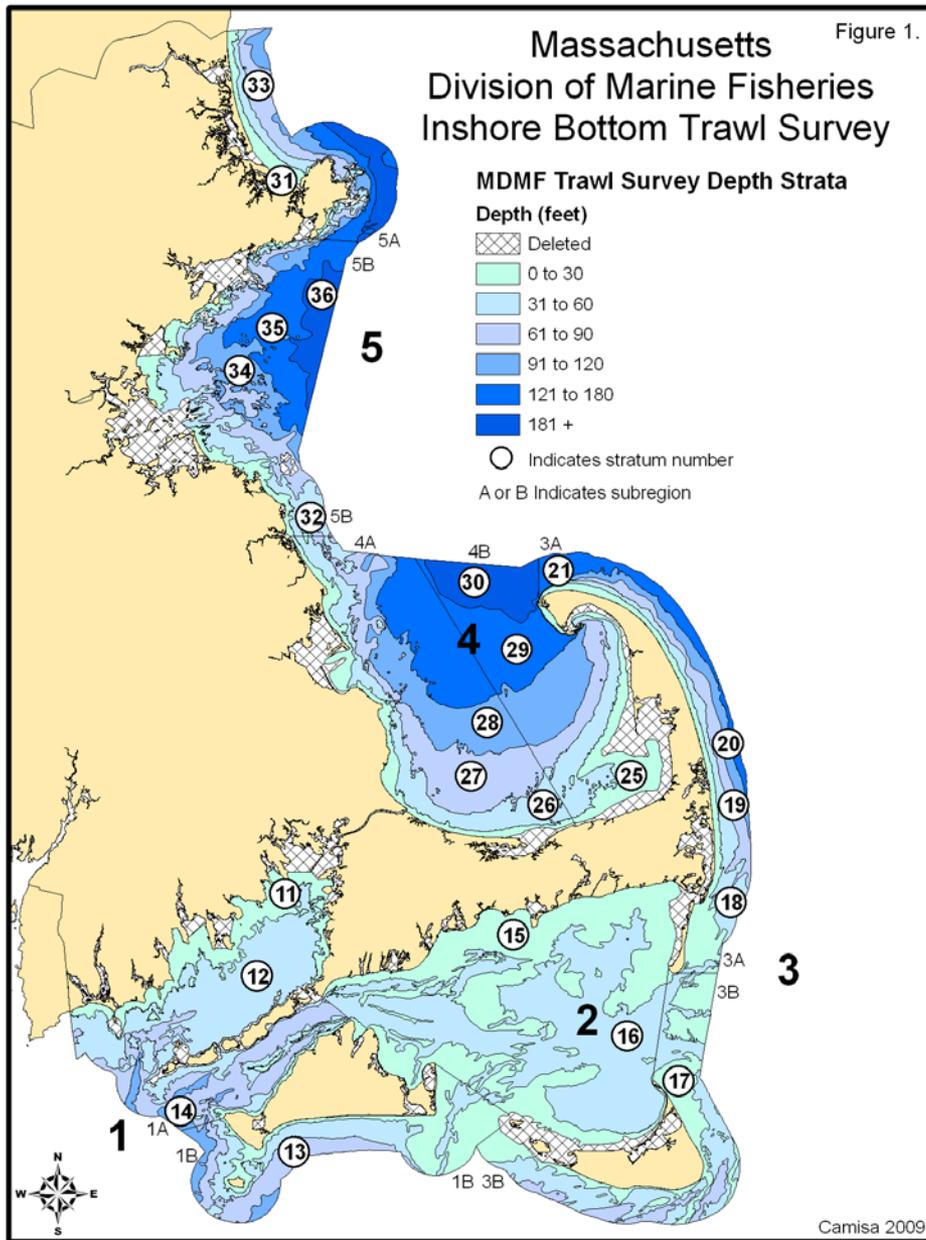


The survey gear has remained unchanged since 1978.



- Headrope: 39ft, 1/2" SS combination rope.
- Footrope: 51ft, 1/2" SS combination rope.
- Sweep: 51ft, 3/8" Trawllex chain with 3 1/2" rubber discs. Seized to FR at 18" intervals with 3/8" shackles and 2" ID, 5/16" steel rings.
- Floats: 7, 8" diameter double-becket aluminum trawl floats.
- Bridles: Top legs - 60ft, 3/8" wire; Bottom legs - 63ft, 3/8" Trawllex chain.
- Doors: Tomkiewicz flat trawl doors, 40" x 72", double shoed, 325 lbs each.
- Cod End: Liner - 1/4" knotless nylon; Rings - 1/4" SS 2" ID; Chaffer - 1/2 of a cod end, running gore to gore, extending 1 mesh beyond the rings.

Survey Area

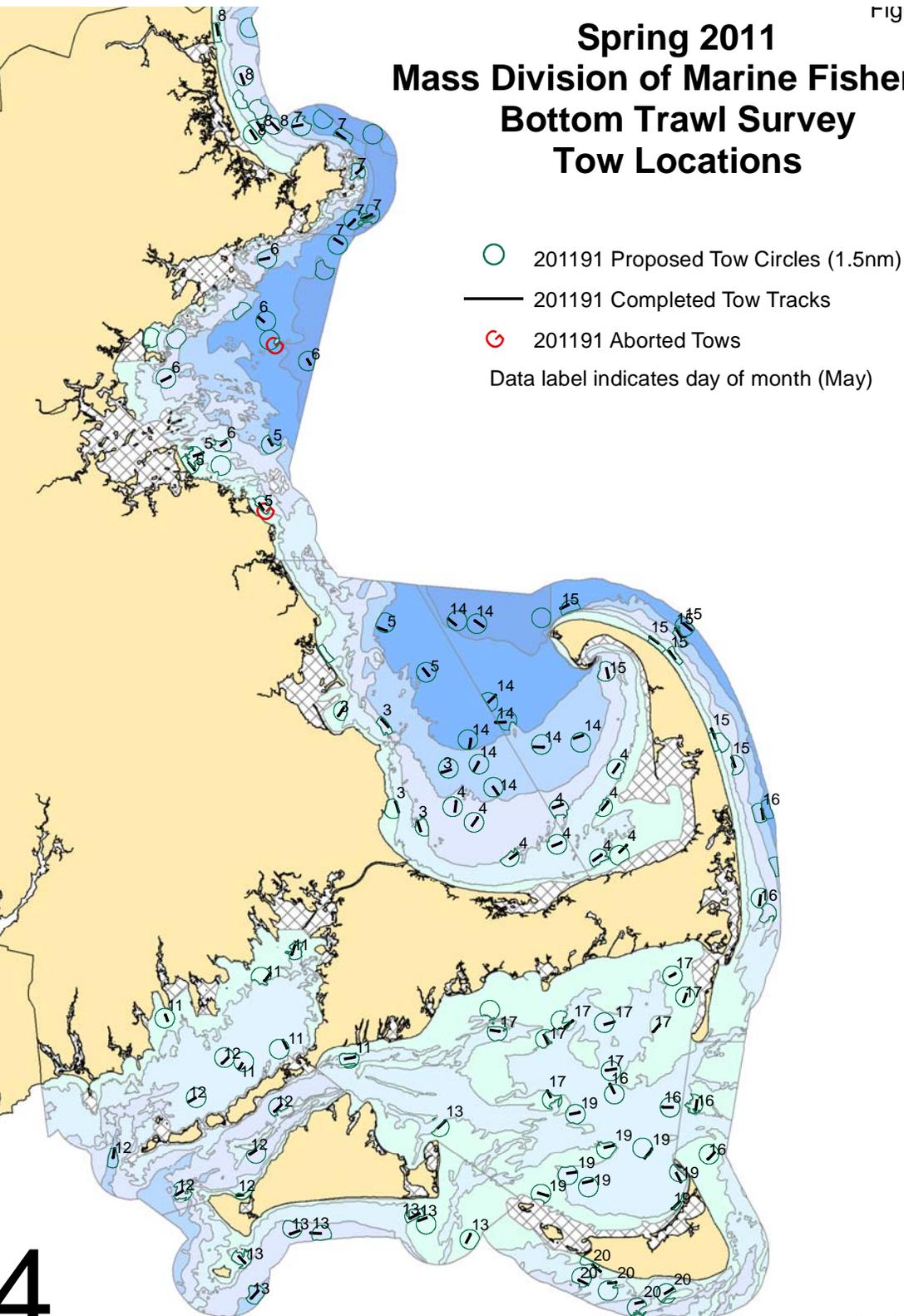


- 5 Geographic Regions
- Up to 6 Depth Zones per Region

Survey Protocols

- Daylight only
- May and September
- 20 minute tow at 2.5 kts
- Short tows expanded to 20-minute standard.

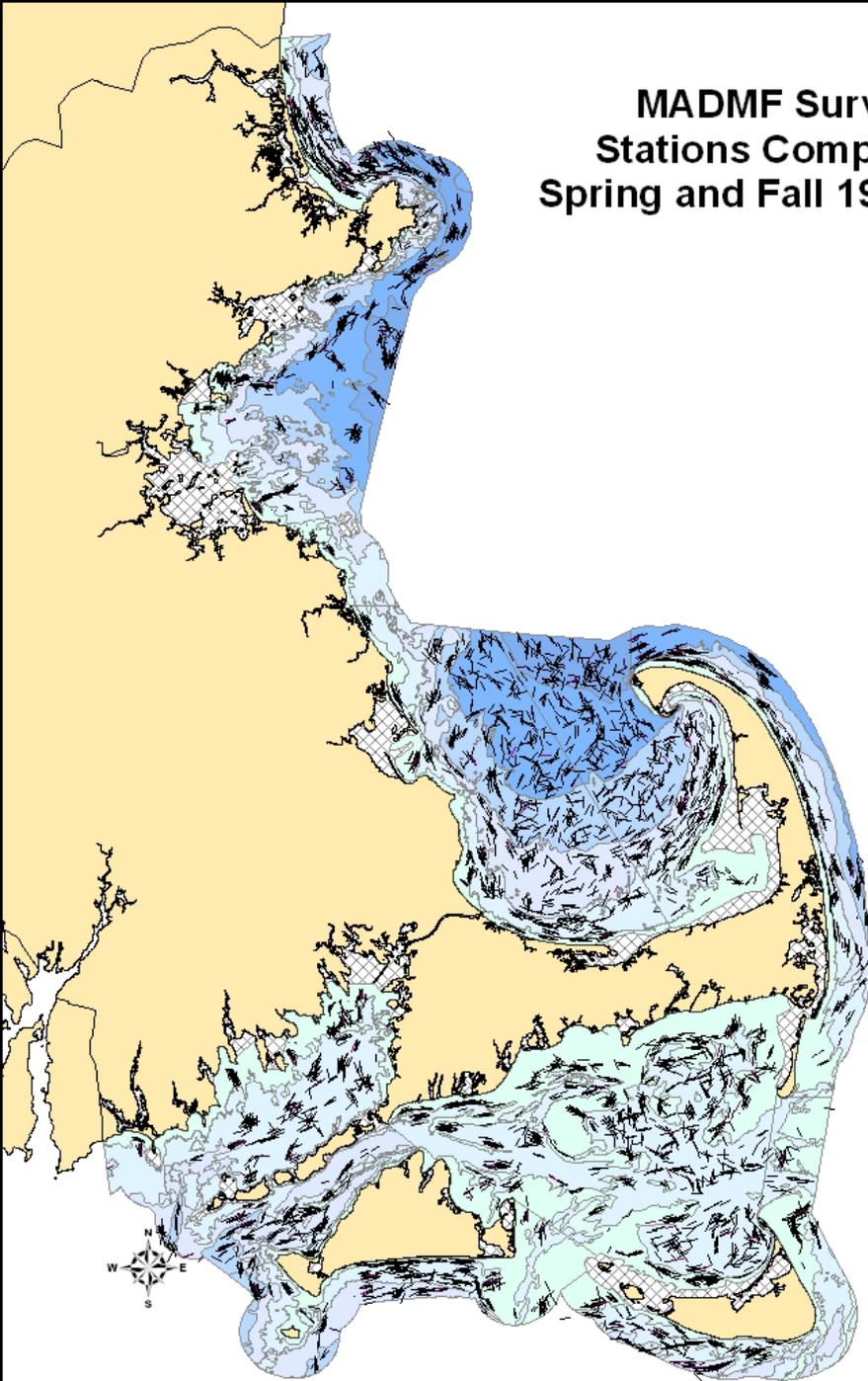
Spring 2011 Mass Division of Marine Fisheries Bottom Trawl Survey Tow Locations



Survey Design

- Random stratified survey design.
- 103 assigned stations.
- Station density of ~1 per 19 sq.nmi.

**MADMF Survey
Stations Completed
Spring and Fall 1978-2012**



35 Years of Surveys Completed

- 70 surveys
- Approximately 6,700 stations



**Massachusetts Division of Marine Fisheries
Technical Report TR-38**

**Massachusetts Division of Marine
Fisheries Trawl Survey Effort, Lists of
Species Recorded, and Bottom
Temperature Trends, 1978-2007**

J. R. King, M. J. Camisa, and V. M. Manfredi

Commonwealth of Massachusetts
Executive Office of Energy and Environmental Affairs
Department of Fish and Game
Massachusetts Division of Marine Fisheries

January 2010

<http://www.mass.gov/dfwele/dmf/programsandprojects/resource.htm#resource>

Technical Report