



NOAA
FISHERIES



NEFSC R/V Gloria Michelle: The Perfect Vessel for Outreach – Here's what we did and why it works

August 31, 2016

Heidi Marotta, Adam Poquette, Jakub Kircun,
Andrew Reynaga, Joshua Wrigley

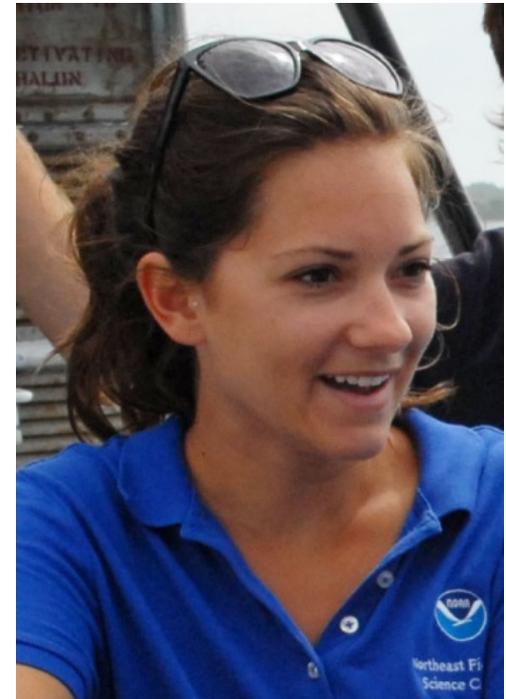
Where and When

August 15 - 18, 2016
Nantucket, MA
Brant Point Coast Guard Station



Participants

- OIC Douglas Pawlishen
- JOIC Andrew Reynaga
- Catherine Fillo
- Adam Poquette
- Heidi Marotta
- Jakub Kircun
- Josh Wrigley
- Patricia Pinto da Silva – Wednesday
- Shelley Dawicki – Thursday



Logistics

- ▶ 2016 NEFSC Education and Outreach Mini-Grant
- ▶ R/V Gloria Michelle Operational Support
- ▶ Meals
- ▶ Lodging
- ▶ Resources
- ▶ Documenting the Trip
- ▶ Post-Outreach
 - Picture Releases
 - News Article Nantucket Press
 - NOAA Opportunities
 - NEFSC Thank You Letters
 - NEFSC Press Release
 - Seminar
 - Final Grant Report



Who we are, what we do, why we do it!

Who eats fish?

What is Sustainable Fisheries?

Who goes fishing?

What kind of fish do you catch?

What kind of seafood do you eat?



Who

▶ Grand Total: 201 visitors

- Adults: 85
- Children: 81
- Teens/College Students: 35

▶ Profiles:

- Maria Mitchell Association
 - Members
 - Board of Directors and Staff
 - MMA Aquarium Staff
 - Wee Explorers (5–6)
 - Habitat Hoppers (7–9)
 - Eco-Investigators (10–12)
 - Teen Naturalist Leadership Program (13–16)
- General Public (including visitors and locals)
- Principal of Bourne Pebbles Elementary School
- Chairperson of School Committee for Bourne Public Schools
- United States Coast Guard
- MA Environmental Police
- Marine Mammal Response Team
- Mooring Tender
- Antarctic Surveyor



Cooperation and Assistance

- ▶ Boston → Nantucket
- ▶ Boat Basin to USCG
- ▶ US Coast Guard
- ▶ WHOI – gangway
- ▶ Specimens
- ▶ Ice!



Stations

- ▶ NOAA Corp, Bridge, Navigation
- ▶ Oral History – Voices from the Fisheries
- ▶ Slide Show, Galley, Ship Life
- ▶ Fishing Operations
- ▶ FSCS2
- ▶ Age and Growth
- ▶ Fish Species
- ▶ Safety



NOAA Corp, Bridge, Navigation



Slide Show, Galley, Ship Life



Oral History Voices from the Fisheries



Fishing Operations



FSCS2

Fisheries Scientific Computing System 2.0



Age and Growth



Wolffish FI
7y - 35cm

Insert section from Palate. Extraction done. Otolith exposed.

In age fish bring their mouths (cardboard), fish over until the otolith is above the eye. Otolith is visible. Otoliths are dark rings on the otolith.

SILVER HAKE
Gulf of Maine - Northern Georges Bank

DISTRIBUTION OF AGES - 1980s

DISTRIBUTION OF AGES - 1990s

OTOLITH EXTRACTION

Otolith extraction is done by detaching the appropriate tissues and setting the fishes skull.

Otoliths are located on each side of and slightly behind the brain.

Once located, the otoliths are removed and processed for ageing.

Wolffish FI
5y - 30cm

Rutledge
w/ 67cm

Cod
7y - 122cm

Red Hake
5y - 145cm

Black Sea Bass
5y - 145cm

Hectoria
5y - 21cm

Black Sea Bass
5y - 145cm

Fish Species

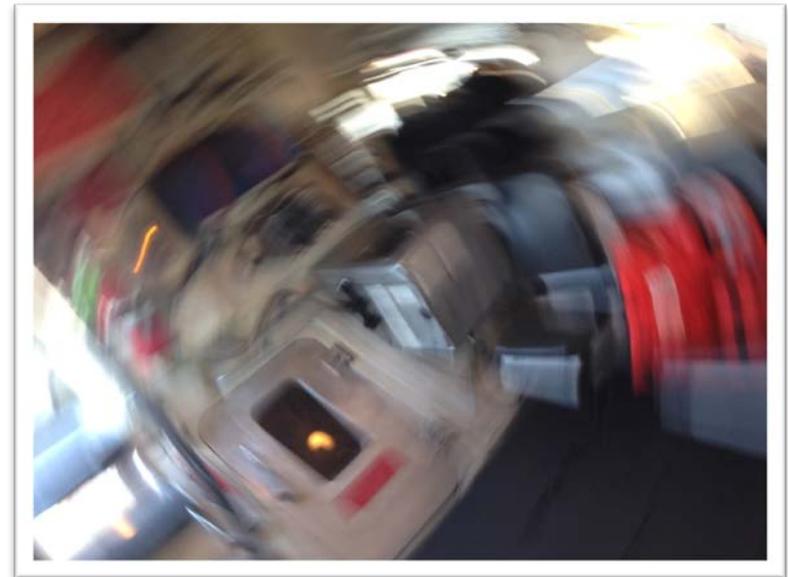


Safety



Unexpected Outcomes

- ▶ Survey Volunteers
- ▶ College Mentoring and Job Coaching
- ▶ Mooring Tender
- ▶ Bourne Public Schools
 - STEM, MA Curriculum Frameworks
- ▶ MMA Aquarium Tour
- ▶ USCG Vessel Tour



Martha's Vineyard

- ▶ June 2013, 2014
- ▶ MV Public Schools
- ▶ Oak Bluffs Harbor Festival



What's Next

- ▶ New England Aquarium – Boston
- ▶ Falmouth, Bourne, Mashpee Public Schools
- ▶ Thank You's

Presentation
Photo Credits:

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Adam Poquette
Catherine Fillo
Heidi Marotta
Andy Reynaga
Josh Wrigley

