

# Atlantic Large Whale Take Reduction Plan

**Proposed Vertical Line Rule** 

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# Agenda

- Introduction to Atlantic Large Whale Take Reduction Plan and Team
- Proposed Vertical Line Rule Development
- Overview of Co-Occurrence Model
- Overview of Southeast Proposal
- Overview Mid-Atlantic and Northeast Proposal



# Understanding the Atlantic Large Whale Take Reduction Team

- Take Reduction Teams are established under the Marine Mammal Protection Act
- The Atlantic Large Whale Take Reduction Team (ALWTRT) was established in 1996
- Team is a multi-stakeholder group, composed of fishermen, scientists, conservationists, and state and federal officials

# Understanding the Atlantic Large Whale Take Reduction Plan

- Goal of Atlantic Large Whale Take Reduction Plan (ALWTRP):
  - reduce injuries and deaths of large whales due to incidental entanglement in fishing gear
  - specific short and long term goals mandated per MMPA
- Plan evolves as new information becomes available
- Plan components:
  - restrictions on where and how gear can be set
  - research into whale populations and behavior, & fishing gear interactions and modifications
  - outreach to inform & collaborate with fishermen & other stakeholders
  - large whale disentanglement program



# **Development of Vertical Line Rule**

- In 2003, the Team agreed to two overarching principles:
  - Reducing entanglement risks associated with groundlines in commercial trap/pot gear
  - Reducing entanglement risks associated with vertical lines (endlines or buoy lines)
- The Team agreed to focus first on addressing the groundline entanglement risk, then on vertical lines.
  - In 2009, NMFS implemented sinking groundline requirements for all trap/pot fisheries throughout the east coast.
  - In 2013, NMFS published a proposed rule to address the vertical line entanglement risk





# Why Action is Still Needed

- Marine Mammal Protection Act:
  - Mortalities and serious injuries due to commercial fishing activities must not affect a species ability to reach or maintain its optimum sustainable population
- Despite previous efforts under the ALWTRP, the number of serious injuries and mortalities for right whales and humpback whales remain too high.





# **Development of Vertical Line Rule**

### **Objectives:**

• Focus the vertical line management scheme on *customized, high priority areas* versus wide-scale, broad management.

### <u>Goals:</u>

- Develop management options to reduce the risk of vertical line entanglements in places where it will have the most conservation value.
- Solicit public input early on in the process.

### Analytical Approach:

- Look at overlap of whale sightings and gear *and* sensitive conservation areas (i.e., grounds used for calving, nursing, breeding, or feeding)
- This approach allowed consideration of several vertical line management strategies (gear density, whale density, co-occurrence, whale life history).



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# Where are we headed?



## Where Are We in the Regulatory Process?

### FEDERAL REGULATORY PROCESS





# **Co-Occurrence Model created for the ALWTRT**

- Model was designed to help team analyze vertical line and whale overlap in order to prepare a rule strategy
- 2010/2011 Fisheries data (varies by state)
- Data from state/federal sources
- Whale sighting data is a compilation of various sources and years (1978-2010)





# **Caveats for the Model used in the Southeast**

- The model was not the sole driving force for Southeast Region Management
- Southeast is regarded as special conservation area, thus management was catered to the life history and density of specific age classes
  - High density of reproductive females
  - High density of neophyte calves
  - High density of juveniles



# **Caveats for the Model used in the Southeast**

 There was no temporal overlap between SE Black Sea Bass trap pot vertical lines and large whales in winter months because no fishery effort at this time



# Mid-Atlantic Data



#### MID-ATLANTIC:

#### VERTICAL LINE - MONTHLY AVERAGE





### MID-ATLANTIC - MONTHLY AVERAGE (JANUARY - DECEMBER)

### **Right Whale**



### Fin Whale



Humpback Whale



### Combined Right & Humpback Whale





#### MID-ATLANTIC:

### CO-OCCURRENCE SCORE – MONTHLY AVERAGE (RIGHT & HUMPBACK WHALES, COMBINED)



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# Southeast Data



#### SOUTHEAST:

### VERTICAL LINE - MONTHLY AVERAGE (NOVEMBER - APRIL)





### SOUTHEAST - MONTHLY AVERAGE (NOVEMBER - APRIL)

### **Right Whale**



### Fin Whale



### Humpback Whale



### Combined Right & Humpback Whale





#### SOUTHEAST:

### CO-OCCURRENCE SCORE – MONTHLY AVERAGE (NOVEMBER – APRIL, RIGHT & HUMPBACK WHALES, COMBINED)





34°0'0''N

- Create a new trap/pot management area
- Restricted Period: Nov 15-Apr 15
- No trap/trawls
- Vertical line free of objects\*
- Area Subdivided
  - Federal waters
  - FL State waters
  - GA/SC State waters
- Gear marking

   Mark 3 times, each mark equals 12"

33°0'0"N -33°0'0''N 32°0'0"N -32°0'0''N 31°0'0''N -31°0'0''N 1248 30°0'0''N -30°0'0''N Blak Plate 29°0'0" -29°0'0"N 81°0'0'W 80°0'0''W 79°0'0''V 78°0'0''W

80°0'0''W

79°0'0''W

78°0'0''W

34°0'0"N

\*Knots/splices ok, but not preferred



81°0'0''W

## **Federal Waters**

- Gear must be brought back to shore at the end of each trip
- <u>VL breaking strength</u> not to exceed 2,200lbs
- <u>Weak links</u> not to exceed 600 lbs
- <u>Gear marking</u>
   O Green and Orange





# **Florida State Waters**

- VL breaking strength not to exceed 1,500lbs
- <u>Weak links</u> not to exceed 200 lbs
- Gear marking
  - Blue and Orange





# Georgia/South Carolina State Waters

- <u>VL breaking strength</u> not to exceed 2,200lbs
- <u>Weak links</u> not to exceed 600 lbs
- Gear marking
  - Blue and Orange





# **Mid-Atlantic and Northeast Proposed measures**

# • Mid-Atlantic

- Continued Monitoring
- Increased Gear Marking
- Northeast
  - Closures
  - Trawling up to reduce number of vertical lines





# Conclusions

- Right whale and other large whale movements in the Mid-Atlantic (e.g. NC) are under-represented due to sampling bias
- Black sea bass trap pot effort not represented in cooccurrence model during winter months
- The southeast is a special conservation area given high density of reproductive females and young animals
- Rule (southeast portion) is designed to maintain light gear that young animals can break free from

