# NIOSH Commercial Fishing Safety Research and Design Program

#### Five-Year Update of Regional Summaries

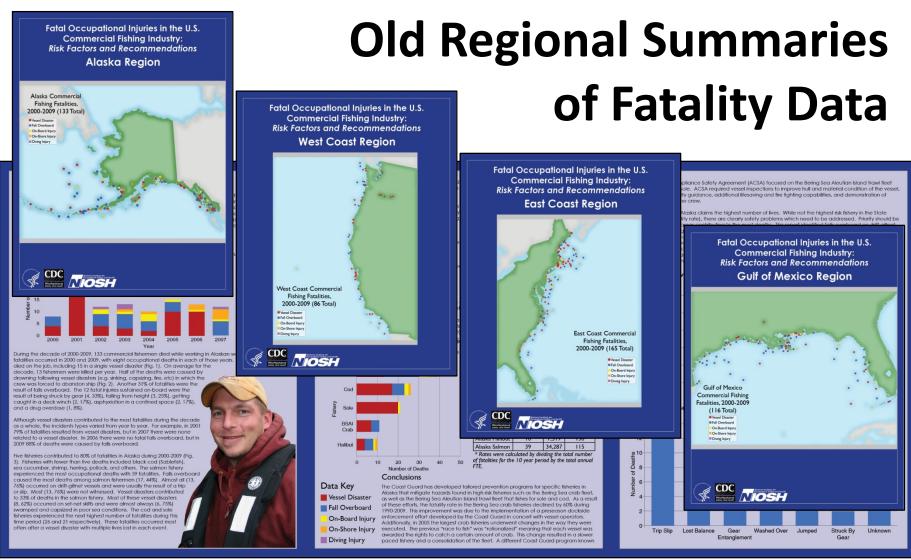
presented to the

#### **Commercial Fishing Safety Advisory Committee**

Savannah, GA | September 27, 2016











#### Five-Year Update

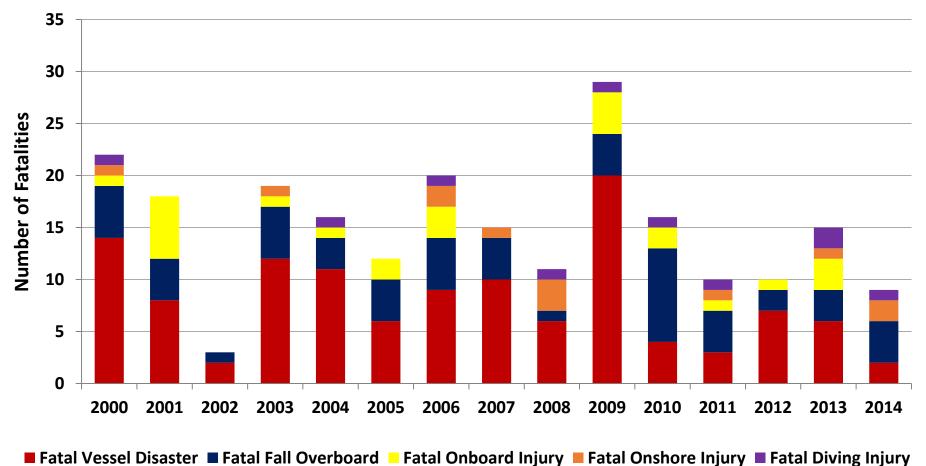
- East Coast, Gulf of Mexico, West Coast, Alaska
- 2010-2014:
  - Fatalities
  - Fatal and Nonfatal Vessel Disasters
- Identify region and fleet-specific hazards
- Tailored recommendations







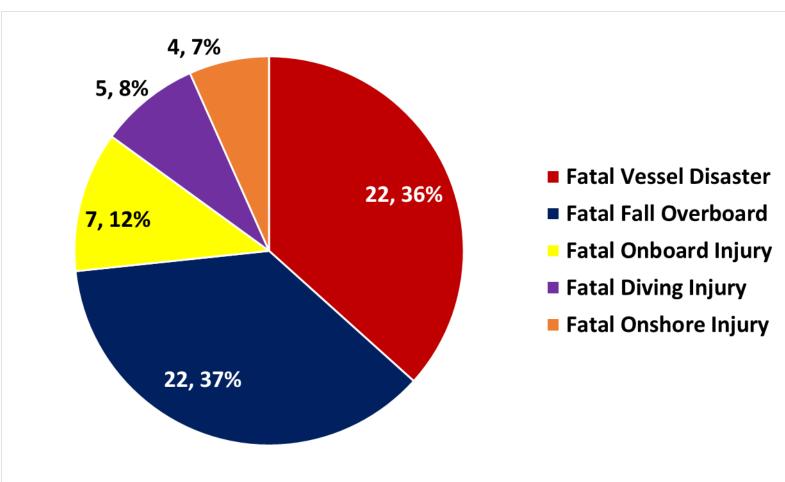
### East Coast Commercial Fishing Fatalities by Year and Incident Type (n=225)







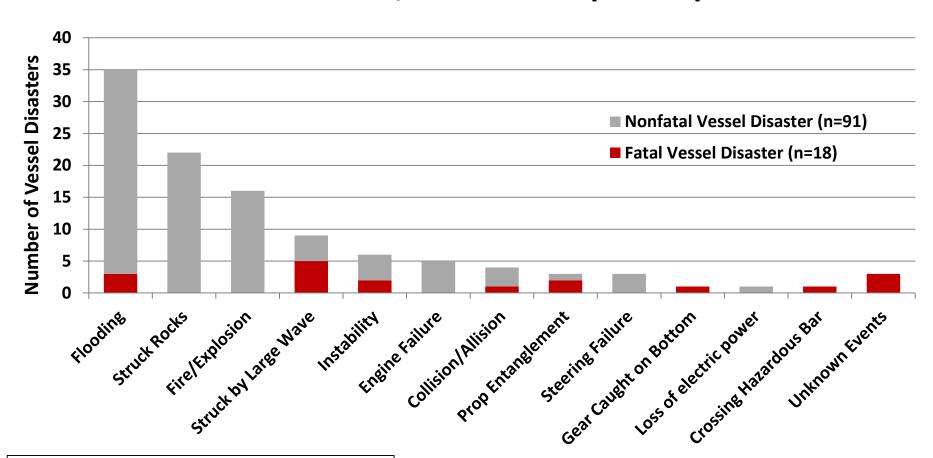
### East Coast Commercial Fishing Fatalities by Incident Type, 2010-2014 (n=60)







#### Initiating Events of Vessel Disasters, East Coast, 2010-2014 (n=109)

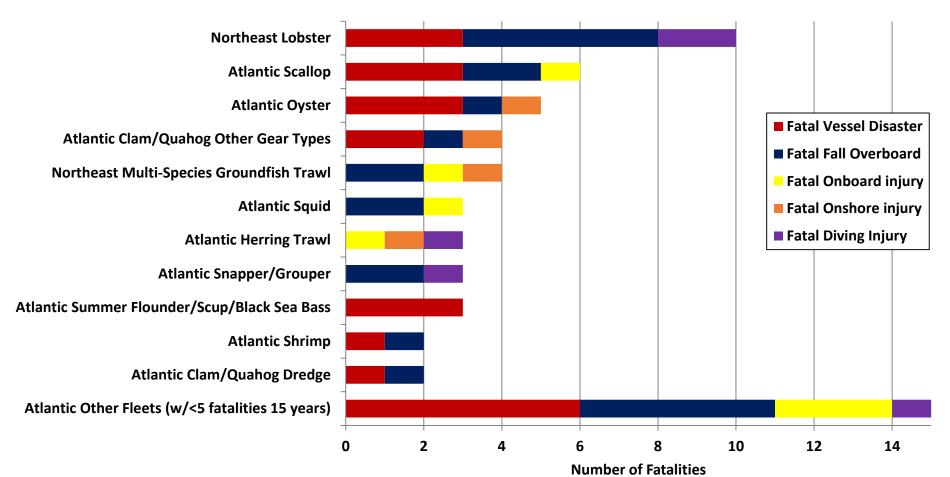


242 crewmembers at risk; 22 deaths





### Commercial Fishing Fatalities by Fleet and Incident Type, East Coast, 2010-2014 (n=60)

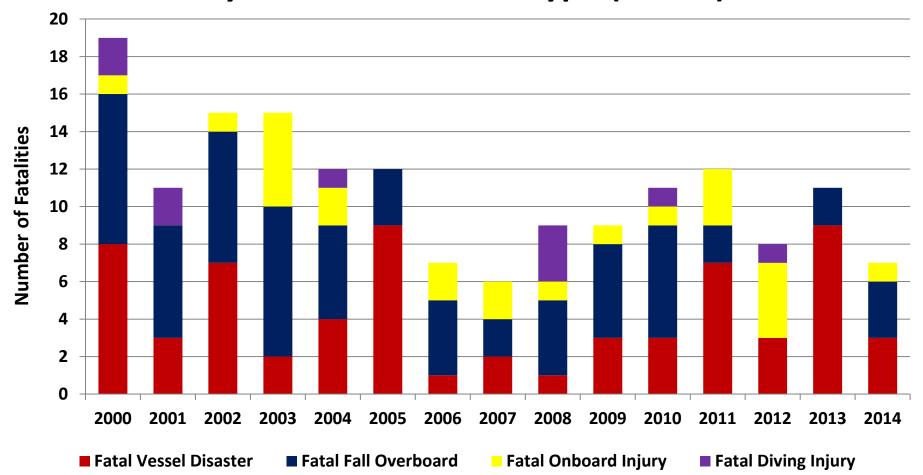








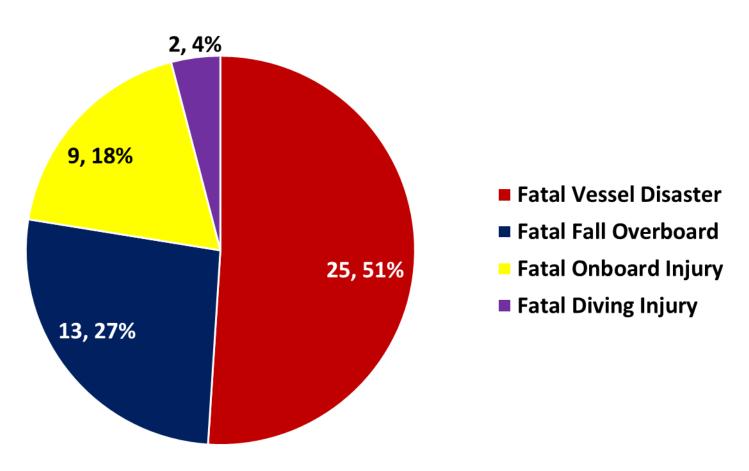
### Gulf of Mexico Commercial Fishing Fatalities by Year and Incident Type (n=164)





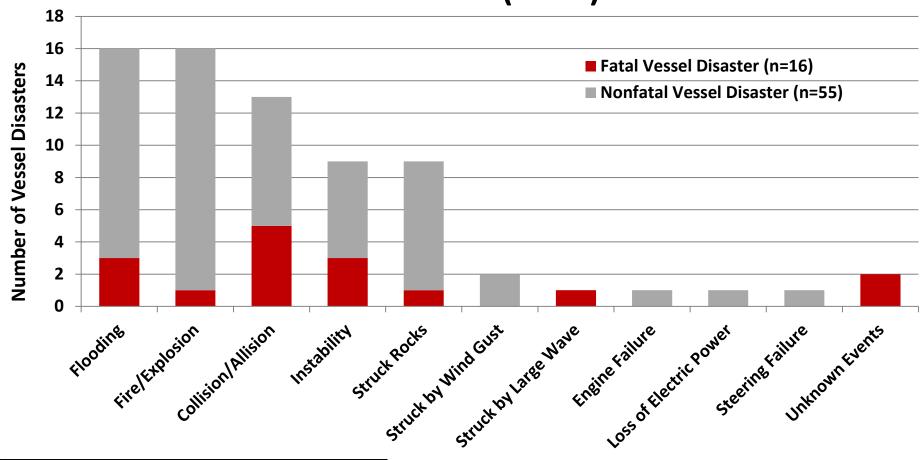


### Gulf of Mexico Commercial Fishing Fatalities by Incident Type, 2010-2014 (n=49)





#### Initiating Events of Vessel Disasters, Gulf of Mexico, 2010-2014 (n=71)

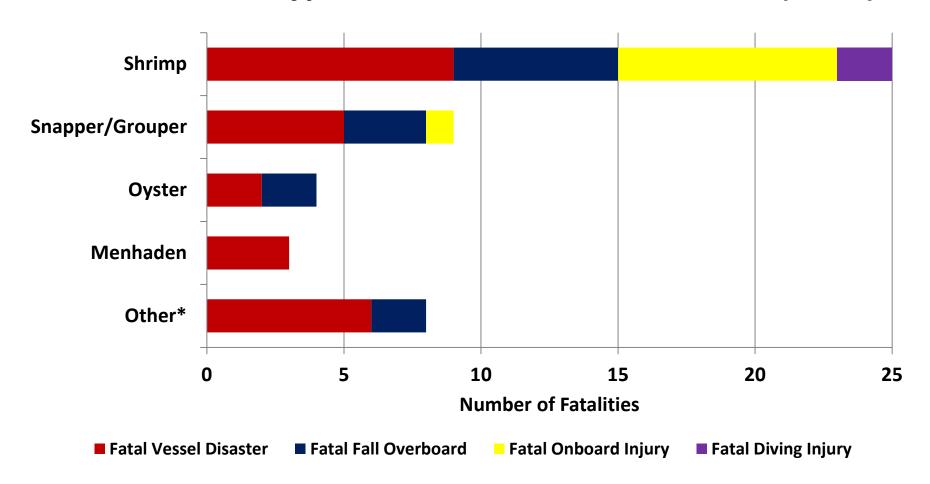


189 crewmembers at risk; 25 deaths





### Commercial Fishing Fatalities by Fleet and Incident Type, Gulf of Mexico, 2010-2014 (n=49)

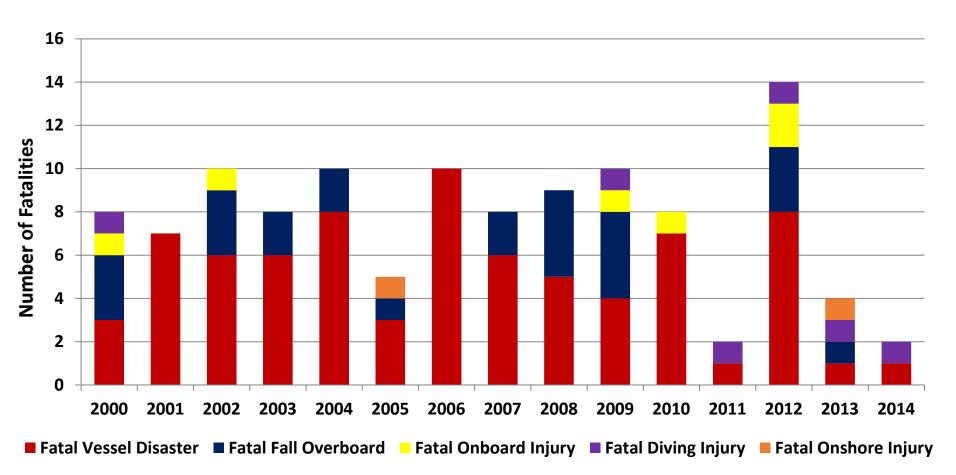








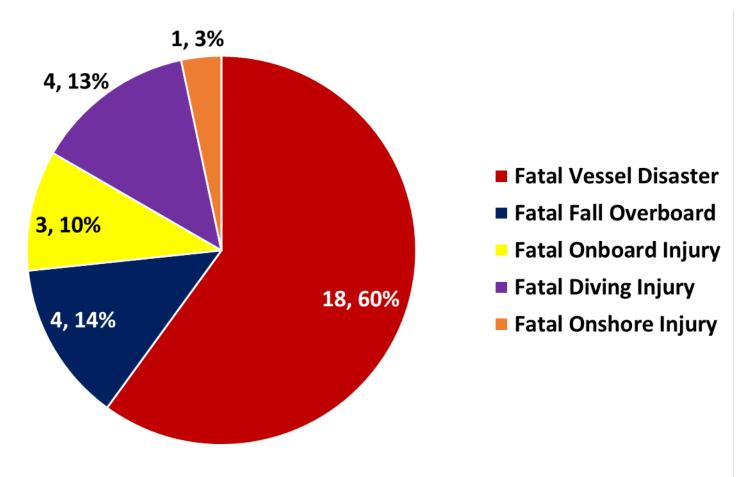
## West Coast Commercial Fishing Fatalities by Year and Incident Type (n=115)







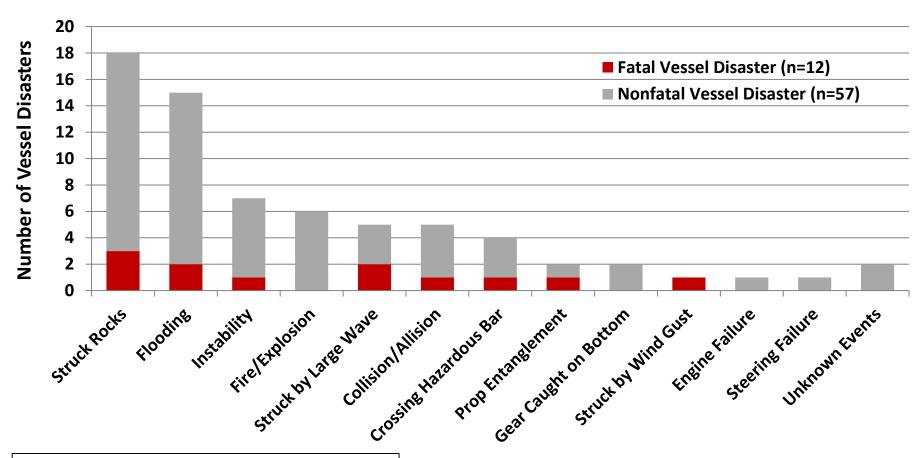
### West Coast Commercial Fishing Fatalities by Incident Type, 2010-2014 (n=30)







### Initiating Events of Vessel Disasters, West Coast, 2010-2014 (n=69)

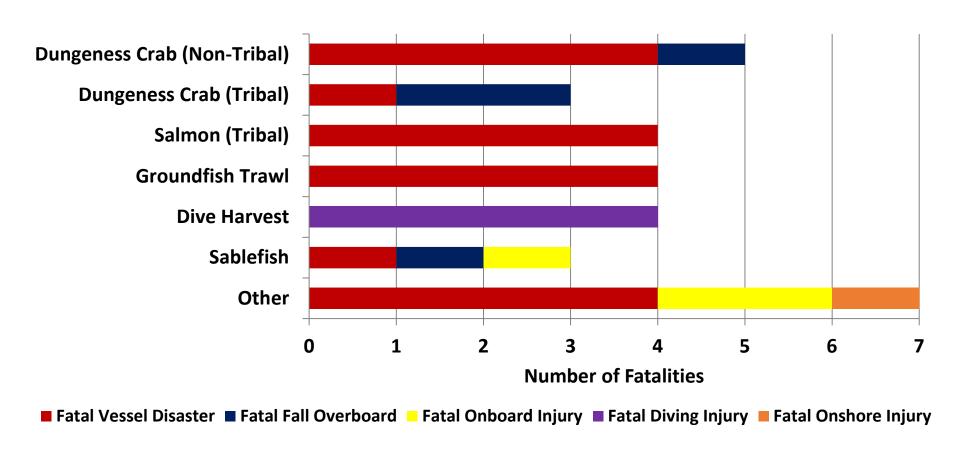


190 crewmembers at risk; 18 deaths





### Commercial Fishing Fatalities by Fleet and Incident Type, West Coast, 2010-2014 (n=30)

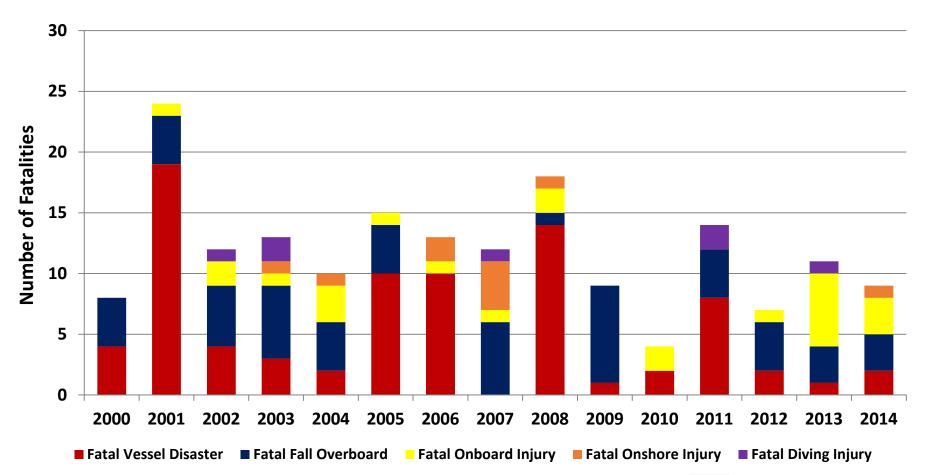








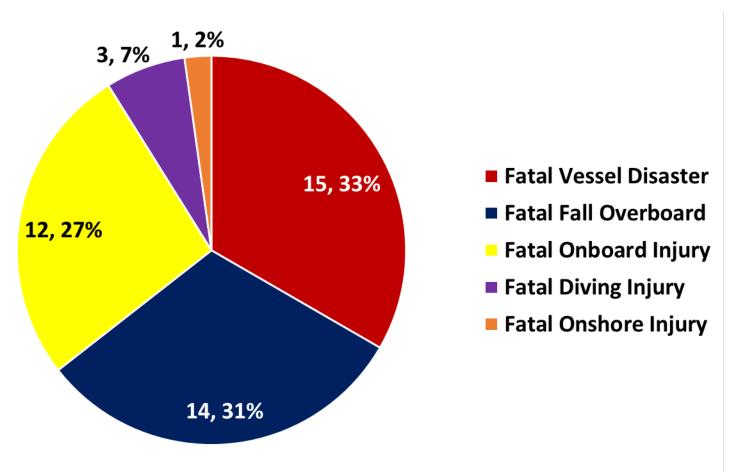
## Alaska Commercial Fishing Fatalities by Year and Incident Type (n=179)







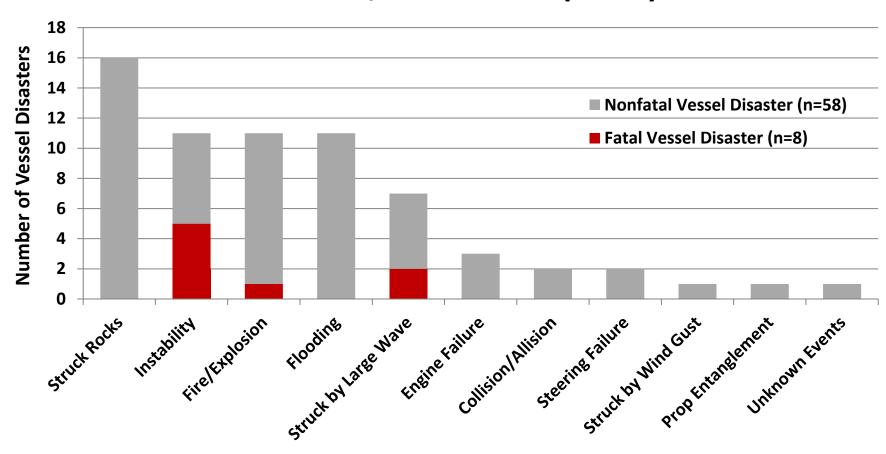
### Alaska Commercial Fishing Fatalities by Incident Type, 2010-2014 (n=45)







#### Initiating Events of Vessel Disasters, Alaska, 2010-2014 (n=66)

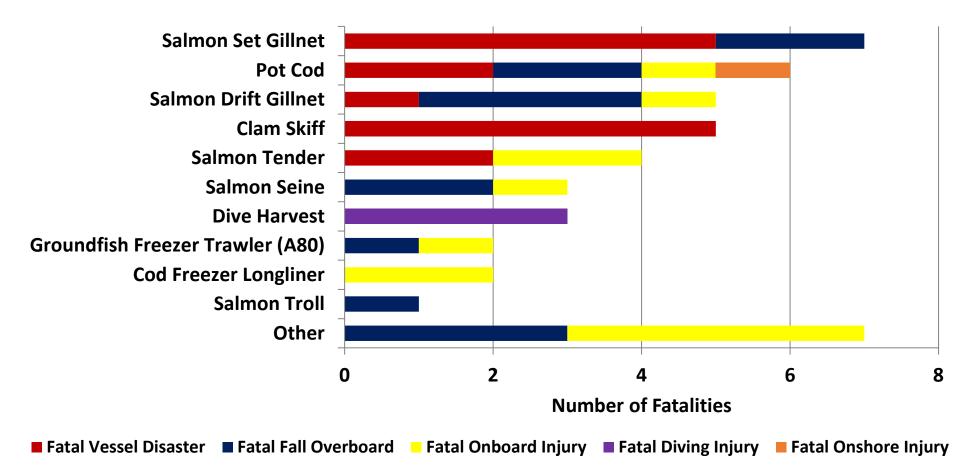


217 crewmembers at risk; 15 deaths





### Commercial Fishing Fatalities by Fleet and Incident Type, Alaska, 2010-2014 (n=45)







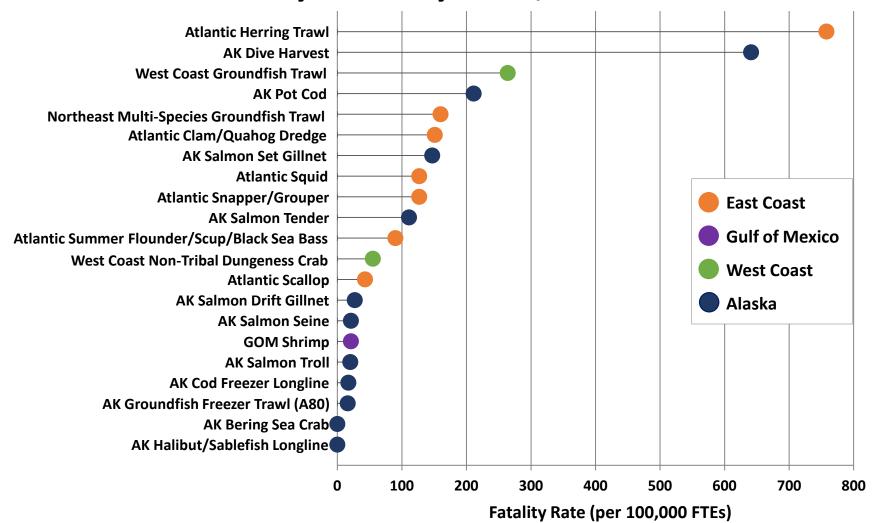
#### **Comparing Risk Among Fleets**

- # of Fatalities per 100,000 Full-Time Equivalent Workers (FTEs)
- Accounts for differences in:
  - Number of vessels
  - Number of fishermen
  - Days at sea
- New method
- Calculated for select fleets
  - >5 fatalities during 2000-2014
  - Where FTE estimates were available





#### Fatality Rates by Fleet, 2010-2014







#### Recommendations

Vessel Disasters	Falls Overboard	Diving Fatalities
Take a marine safety class	<ul> <li>Wear a PFD on deck</li> </ul>	<ul> <li>Dive with experienced, alert tender</li> </ul>
<ul> <li>Conduct monthly drills (abandon ship, flooding, fire)</li> </ul>	<ul> <li>Conduct monthly man- overboard drills</li> <li>Use effective recovery</li> </ul>	<ul> <li>Prepare for a dive emergency</li> </ul>
Ensure watertight integrity	devices	





#### Recommendations

East Coast	Gulf of Mexico	West Coast	Alaska
<ul> <li>Use engineering controls to prevent gear</li> </ul>	<ul> <li>Perform         maintenance to         prevent fires and</li> </ul>	<ul> <li>Maintain proper watch</li> </ul>	<ul> <li>Maintain proper watch</li> </ul>
entanglement	explosions	<ul> <li>Use fall protection practices</li> </ul>	<ul> <li>Skiffs adhere to federal fishing</li> </ul>
<ul> <li>Use a knife to</li> </ul>	<ul> <li>Safeguard</li> </ul>		vessel safety
escape entanglement	machinery	<ul> <li>Safeguard machinery</li> </ul>	regulations
			<ul> <li>Enforce a drug-</li> </ul>
		<ul> <li>Protect against electrical hazards</li> </ul>	free policy





#### What's Next?

- Regional summaries undergoing NIOSH clearance
  - Internal and external reviews
- Manuscript draft underway



#### THANK YOU

Samantha Case, MPH
Devin Lucas, PhD
NIOSH Western States Division, Alaska Office
dlucas@cdc.gov
907-271-2386

www.cdc.gov/niosh/topics/fishing

