



NIOSH Update

April 2015

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Occupational Safety and Health Act





Department of Health and Human Services

Occupational
Safety and Health
Administration
OSHA

Regulation/Enforcement

Centers for Disease
Control and Prevention
CDC

National Institute for Occupational Safety and Health

Research
Prevention Recommendations





NIOSH Commercial Fishing Safety Research and Design Program

- Provide scientific assessment of hazards
- Identify workers at risk & high priority problems
- Support the development of interventions
- Evaluate interventions









MOA with US Coast Guard

Agreement to share information:

- To identify patterns of hazards leading to deaths and injuries.
- Collaborate regionally on interventions.





Marine Casualty Occurs

USCG Investigates NIOSH collects information and enters into CFID













ALASKA PACIFIC

Commercial Fishing Incident Database



Incident

Person

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Vessel

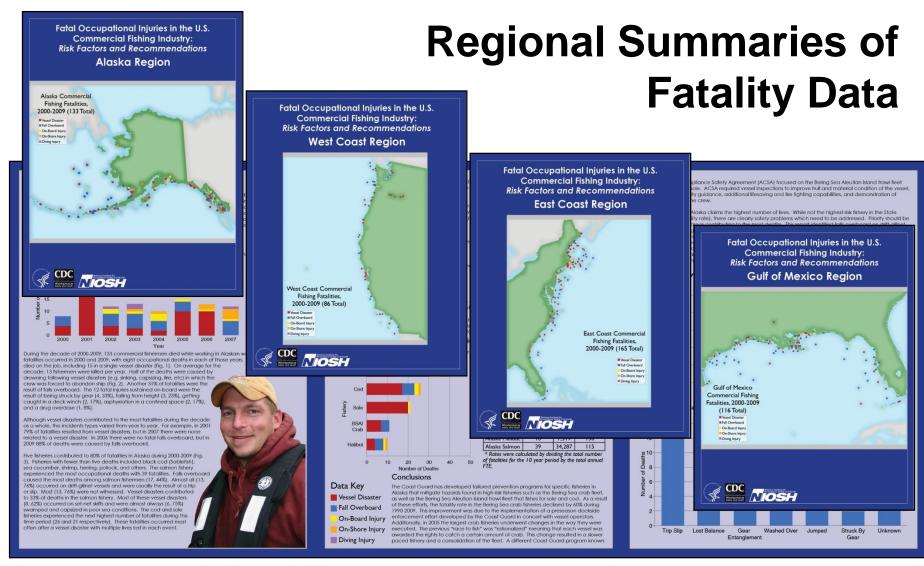


Fatalities
Vessel Losses
Injuries
NS10 Tech guidance





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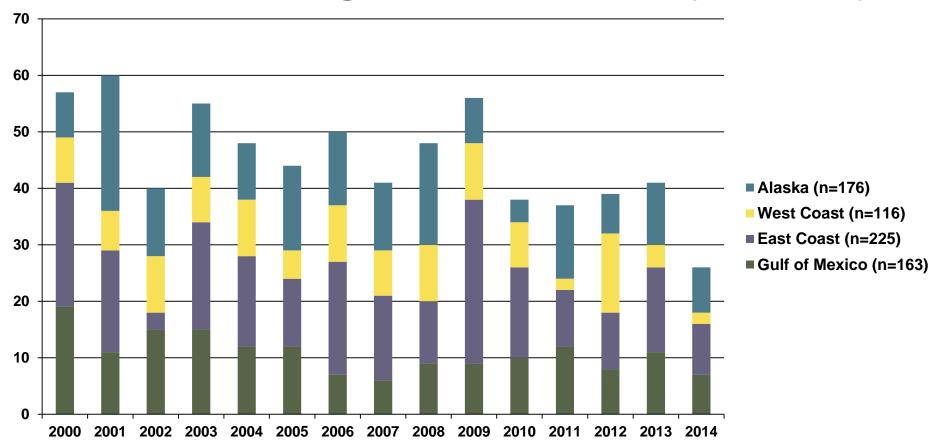








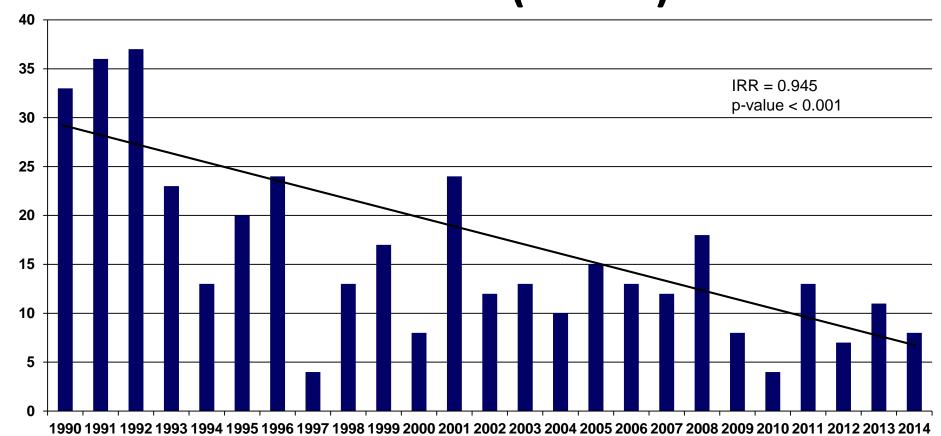
U.S. Commercial Fishing Fatalities by Year and Region, 2000-2014 (n=693*)





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Commercial Fishing Fatalities, Alaska, 1990-2014 (n=396)

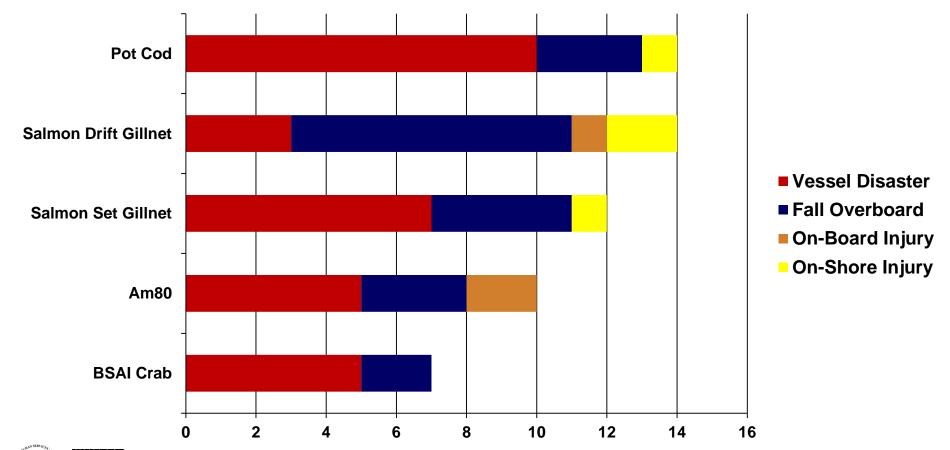








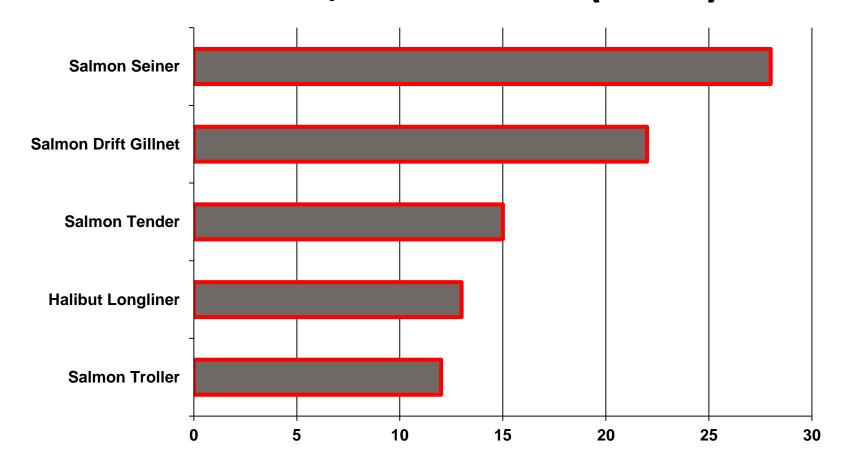
Commercial Fishing Fatalities by Fishery, Alaska, 2005-2014 (n=57)*







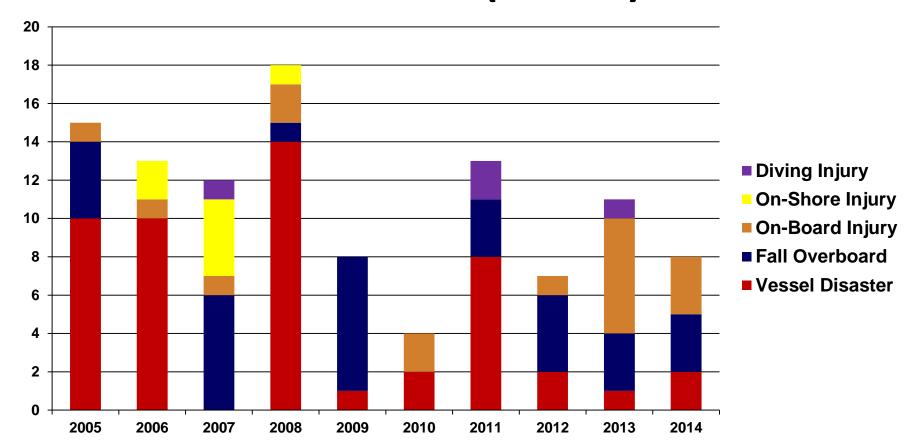
Non-Fatal Vessel Disasters by Fishery, Alaska, 2005-2014 (n=90)*





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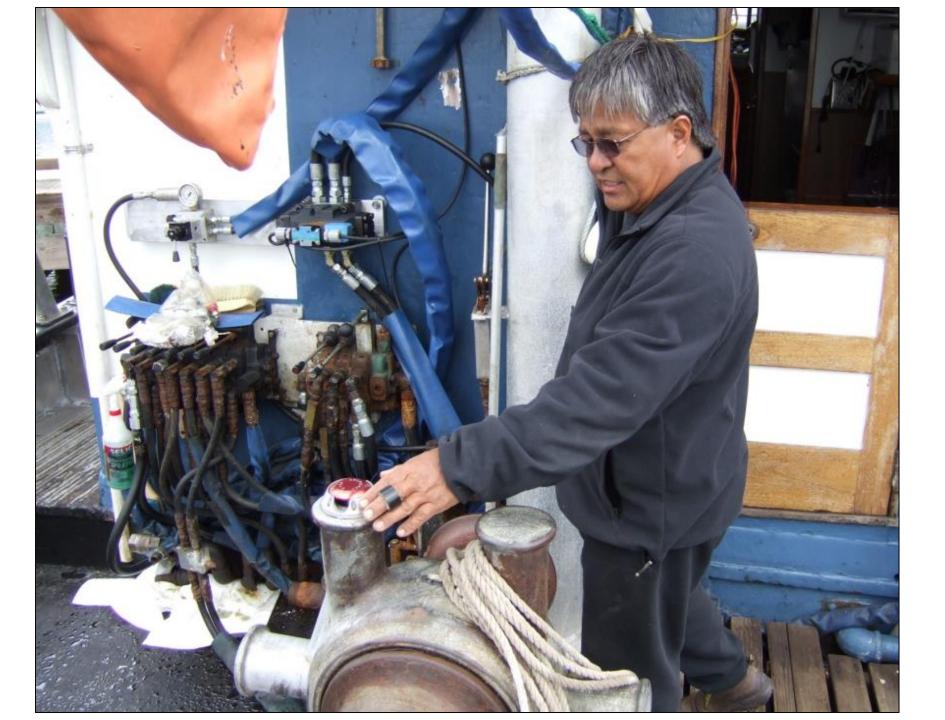
Commercial Fishing Fatalities, Alaska, 2005-2014 (n=109)













Winch Entanglements

- August 2014— male
 - Southeast Alaska
 - Severed 4 fingers





Winch Entanglements

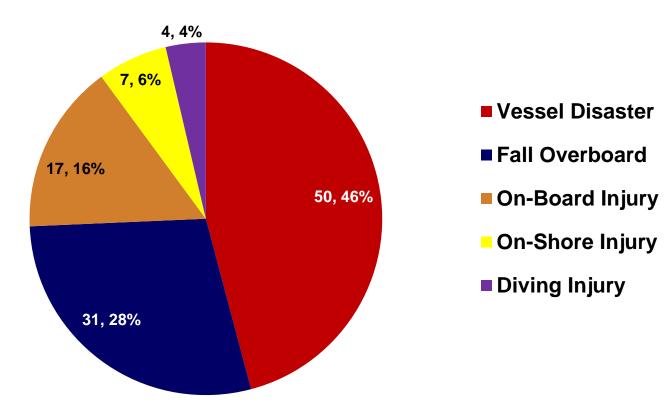
- August 2014— male
 - Southeast Alaska
 - Severed 4 fingers
- August 2013

 male
 - Southeast Alaska
 - Crushed hand and arm
 - Severed 3 fingers





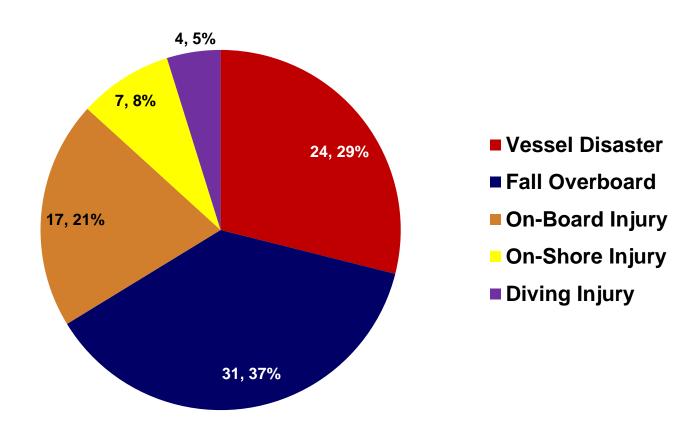
Commercial Fishing Fatalities by Incident Type, Alaska, 2005-2014 (n=109)







Commercial Fishing Fatal Events by Incident Type, Alaska, 2005-2014 (n=83)













Bering Sea Crab Fleet

PFD Use	2008 Survey	2014 Survey
Never Wear	16%	16%
Sometimes Wear	51%	24%
Frequently Wear	12%	8%
Always Wear	22%	52%









Analysis of Samples

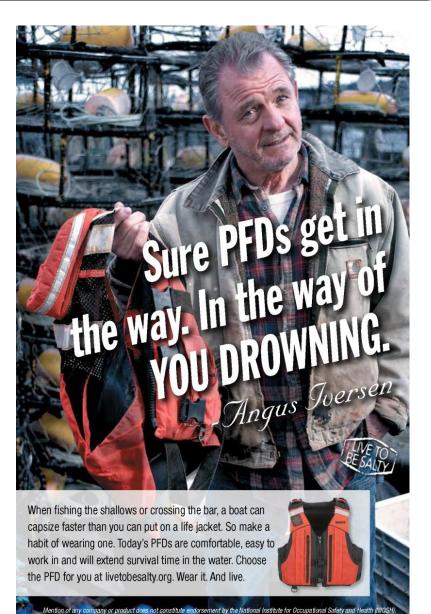
- 2008 & 2014 sample comparison
 - Demographically identical
 - Age, sex, experience, job position, residence
 - Risk perceptions and attitudes about PFDs differ
 - 2014 sample had higher risk perceptions regarding falling overboard
 - More positive attitudes about PFD comfort
 - These are what we would expect based on modeling predictors of PFD use from the 2008 sample





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"Rouge" Tactical Deck Vest

- Worked with Trident Seafoods
- Tested with fisherman
- Designed Vest based on:
 - Appeal to broader base of northern fishermen
 - Less restrictive, continuous wear
 - Ability to wear under outerwear
- Included 12 lb. floatation for buoyancy with low profile







Summary

- NIOSH Commercial Fishing Incident Database
- Falls Overboard and Deck Safety
- Practical and Relevant Projects
- Future Work
 - Update rates
 - Non-fatal injuries
 - All vessel losses







Contact Information



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