IMPROVING COMMUNICATIONS TO ENHANCE MARITIME DOMAIN AWARENESS IN THE BERING STRAIT

Melissa Parks, The Pew Charitable Trusts
The Bering Strait
The Bering Strait
Bering Strait Ecology
Bering Strait Ecology

(Cynthia Christman, NOAA)

(John Jansen, NOAA)

(Henry Huntington)

(Brad Benter, USFWS)
Bering Strait Communities

**WALES**

**SAVOONGA**

**SHISHMAREF**

**GAMBELL**
Increasing Vessel Traffic

Bering Strait Transits

- 2008 = 220
- 2009 = 280
- 2010 = 430
- 2011 = 410
- 2012 = 480
- 2013 = 440
- 2014 = 340
 Risk Factors - Environment

- Sea Ice
- Rapidly changing weather
- Local waterway users & marine mammals
- Remote
Risk Factors – Limited Infrastructure

- Response resources
- Docks, ports, major airports, roads
- Nautical charts
- Communication coverage

(Julie Raymond-Yakoubian)
Automatic Identification System (AIS)

- IMO requires AIS on vessels 300 GT+
- Map-based application

(map from marinetracking.com)
Enhanced AIS

- Three-way Communication: vessel to shore to vessels
- Mapped Hazards and Precautionary Areas
- Real Time
- Maritime Domain Management

(Figures from IMO Circ 290)
Next Steps

- Testing the system more broadly: US, Russia, Canada
- More complete communication coverage
- Messages by and for local users
THANK YOU

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