

Climate Change Issues For The USCG and the Maritime Industry



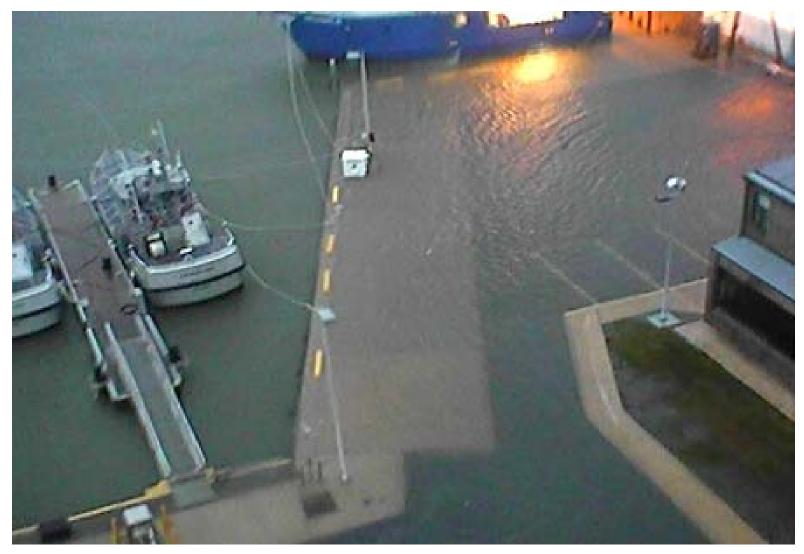


USCG Station New York





USCG Station Barnegat Light





USCG Station Atlantic City





USCG Station Sandy Hook

Protect, Save, Defend, and Enforce











Gulfport, Mississippi Katrina - 2005





Gulfport, Mississippi



- LEED Silver
- Designed for Cat 4
- 18 ft storm surge

- Mission-critical functions on 2nd fl
- Breakaway walls allow storm surge to flow through bldg





Gulfport Mississippi Gustav - 2008





Gulfport, Mississippi Isaac – August 2012





Impacts at Coast Guard Facilities

- Loss of power and communications
- Inability to access facility
- Inability to operate boats
- Potential loss of potable water supply
- Personnel living in vicinity may be affected





Impacts to Waterways

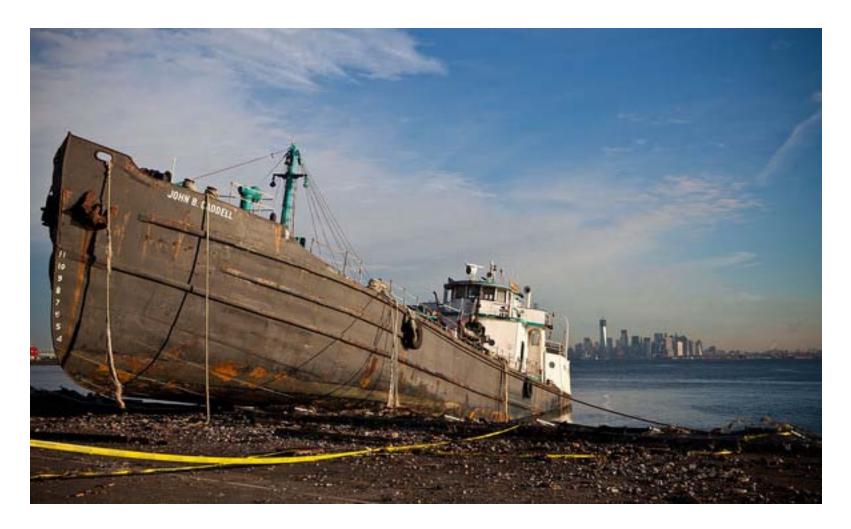
- Storm debris obstructions in waterway
- Depth reduced in navigation channels
- Loss of Aids to Navigation
- Traffic unable to get around oil spills
- Toxic brew in urban areas
- Oil and container terminals inoperative

AND

- Power loss
- Flooding



Impacts to Waterways





Massive Challenge to Replace/Reset Aids





Oil Spill in Arthur Kill





A Toxic Brew





Resiliancy

- CG added 3 positions in First District for Marine Trans. System (MTS) recovery
- Working with USACE, TSA, industry
- Many lessons learned...



Lessons Learned

- Transportation fuels in affected area critical
 - increased demand
 - decreased supply
- Post-event surveys of waterway critical
- Focus on commodities, not the queue
- Security cannot be waived
 - Barriers are breached
 - Electronics don't work
 - Must mitigate with guards



Lessons Learned

- Supply chain was choked
 - No easy way to restore normalcy
- Waivers
 - Jones Act
 - CDL hours and weight
 - Vapor recovery

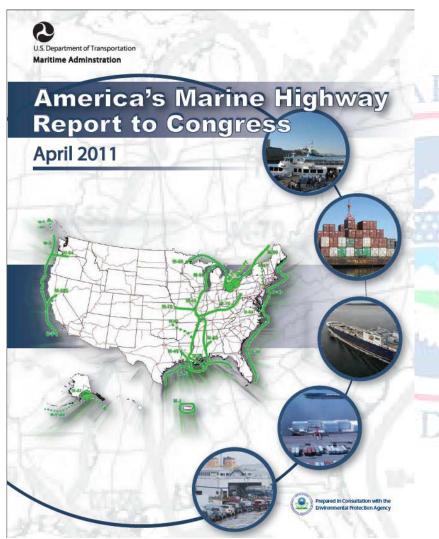


Inundation of I-95 Rail





America's Marine Highways



- 13 % of domestic cargo in 2007
 - Down from >26% 1965
- Reduce GHG emissions
- Reduce road congestion
- Reduce fatalities, injuries and noise
- Reduce infrastructure repair costs – roads & bridges



America's Marine Highways





Barge Transport More Efficient





I-95 Congestion





Emission Control Areas

MARPOL 73/78 Annex VI – Regulations for the Prevention of Air Pollution from Ships



International Convention for Prevention of Pollution from Ships - MARPOL



Alaska does not want to comply with ECA rules

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IN THE UNITED STATES D	ISTRICT COURT
FOR THE DISTRICT O	F ALASKA
STATE OF ALASKA.	ñ
Plaintiff	
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v.	
	Case No. 3:12-cv-00142-SLG
HILLARY RODHAM CLINTON, in her	Case No. 3:12-cv-00142-SLG
HILLARY RODHAM CLINTON, in her official capacity as United States Secretary of	Case No. 3:12-cv-00142-SLG
HILLARY RODHAM CLINTON, in her official capacity as United States Secretary of State, UNITED STATES ENVIRONMENTAL	Case No. 3:12-cv-00142-SLG
State, UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, LISA P.	Case No. 3:12-cv-00142-SLG
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"The Secretary of State accepted the ECA amendment, which was a non-selfexecuting international commitment, without the approval of the President and the Senate."

State of Alaska v. Hillary Rodham Clinton et al., No. 12-cv-00142-HRH(D.Alaska filed Jul. 13, 2012)



U.S. Navy Task Force Climate Change

- The changing Arctic
- The potential impact of sea level rise on installations and plans
- Changing storm patterns and severity
- Water and resource challenges
- Stress on vulnerable nation states
- Increased humanitarian assistance and disaster response



Arctic Shield 2012

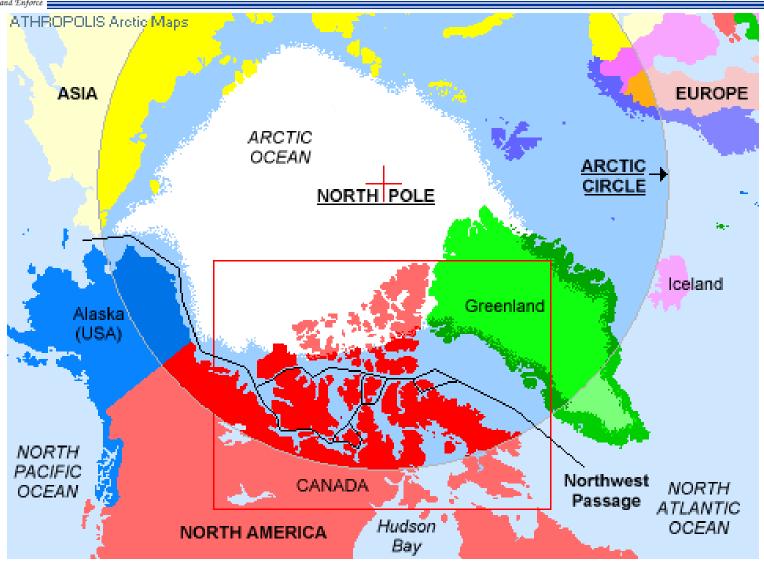
- Outreach to 33 Arctic communities, 27 schools Involving > 5000 people
- Capabilities assessments and joint training exercises, NORCOM, USN
- Challenges
 - Logistics
 - Personnel mgmt
 - Limited infrastructure
 - Distance and weather



"Polar Bear" Oil Skimmer



Northwest Passage





Northwest Passage



- Arctic sea ice hit a record low of 4.24 million KM² on Sept. 8
- Routes regularly open in late summer by 2030
- USCGC Healy only icebreaker and it is medium duty
- \$56m overhaul Polar Star return it to service in 2013
- Polar Sea out of commission, awaiting funding or dismantling



Three Top Concerns

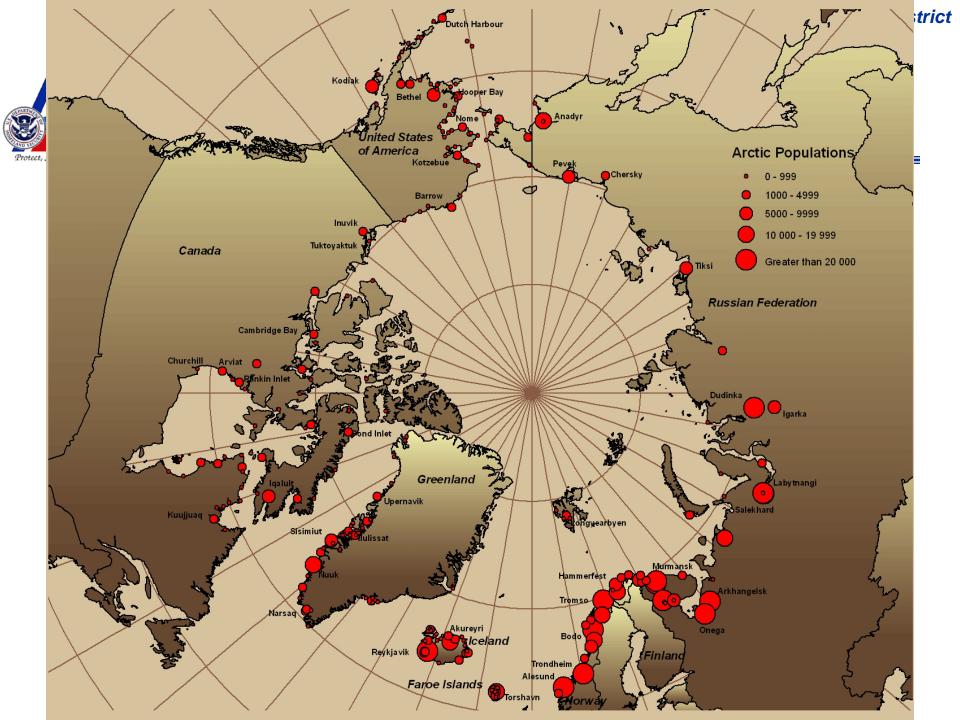
• Law of the Sea Treaty

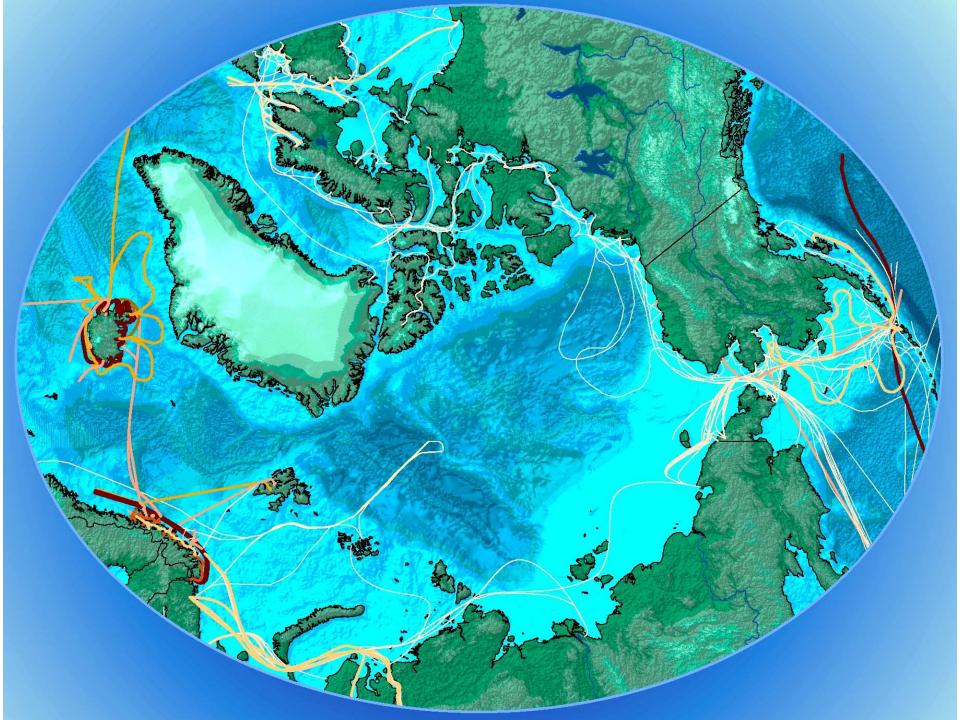
Search and Rescue



Oil pollution response









Questions?

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