Marine Technology and the North
Developing Industry and Other Standards for Arctic and High Latitude Operations

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This presentation is: UNCLASSIFIED
The Arctic
Arctic Sea Ice Extent
(Area of ocean with at least 15% sea ice)
Challenges – lack of knowledge
Challenges - distance

<table>
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<tr>
<th>Distances</th>
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<tr>
<td>Juneau-Barrow</td>
<td>1100 miles</td>
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<tr>
<td>Kodiak- Barrow</td>
<td>950 miles</td>
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<tr>
<td>Dutch H- Barrow</td>
<td>1250 miles</td>
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<td>(Boston-Miami)</td>
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Challenges – the operating environment
Challenges – infrastructure & logistics
Challenges – stewardship
Challenges - SAR
U.S.-Canada Maritime Boundary Dispute
Canada claims western line on treaty and sector basis; U.S. claims eastern line based on equidistance principle.

Canada-U.S./Others Northwest Passage Sovereignty Dispute
Canada claims historic internal waters throughout Arctic Archipelago; U.S. and others claim straits used for international navigation.

Canada-Denmark Hans Island Sovereignty Dispute
Canada and Denmark each claim sovereignty of 1.3 sq. km island; maritime boundary agreement did not include island.

Russia-U.S./Others Northern Sea Route Sovereignty Dispute
Russia claims historic internal waters at Kara, Vilkitskiy, and Laptev Straits; U.S. and others claim international straits.

Norway-Russia/Others Svalbard Maritime Sovereignty Dispute
Norway claims 200 nm fisheries protection zone; Russia and others claim treaty-based open access.
Coast Guard Arctic Strategy Initiatives
1. Enhance Arctic Operations & Exercises
2. Improve Maritime Domain Awareness
3. Enhance Arctic Surface & Air Capabilities with Associated Support Infrastructure
4. Improve Arctic Communications Capabilities
5. Implement IMO Polar Code
6. Promote Arctic Waterways Management
7. Support Arctic Council & U.S. Chairmanship
8. Advance the Arctic Coast Guard Forum
9. Support a Center for Arctic Study & Policy
10. Establish an Arctic Policy Board
11. Create an Arctic Fusion Center
12. Create an Arctic Maritime Assistance Coordination Center
13. Strengthen Marine Environmental Response in the Arctic
Questions?