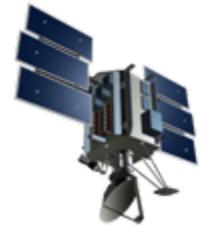
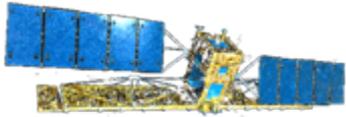


The Impact of an Ice Diminishing Arctic on Naval and Maritime Operations



CDR Timothy B. Smith
Director, U.S. National Ice Center
16 July 2013



USN



USCG



NOAA



WELCOME



Why are we here?

Where are we going?

What do we need?

How will we achieve goals?

Critical international partners.

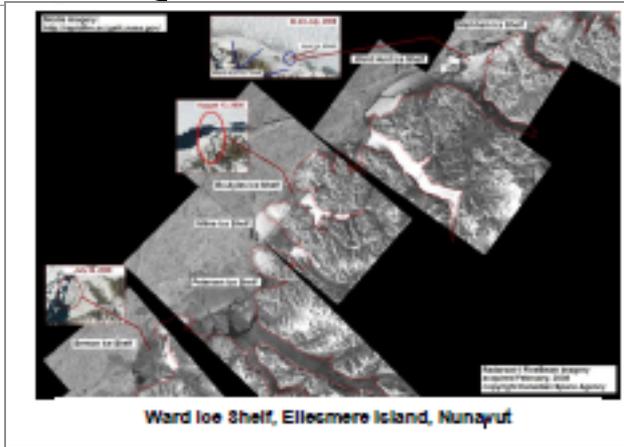
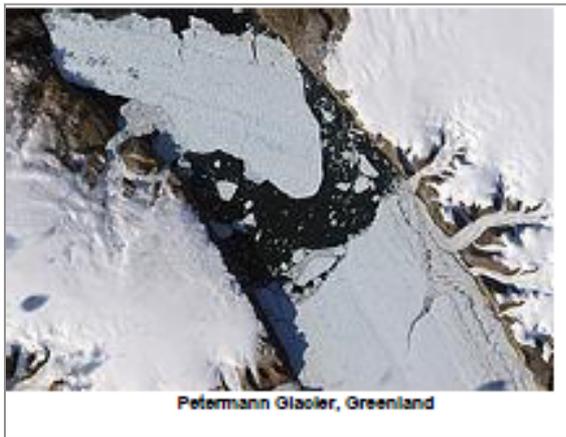
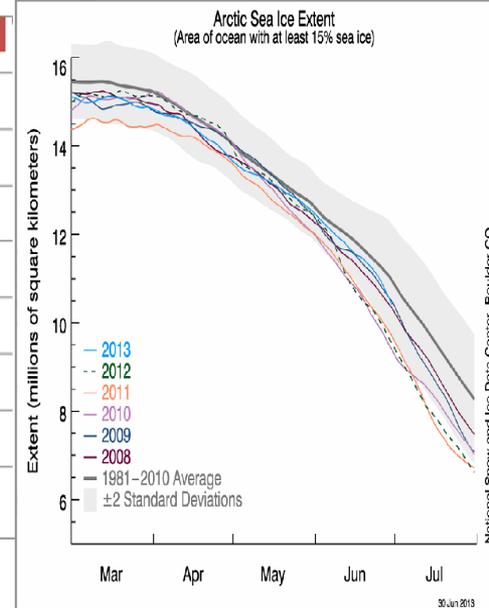
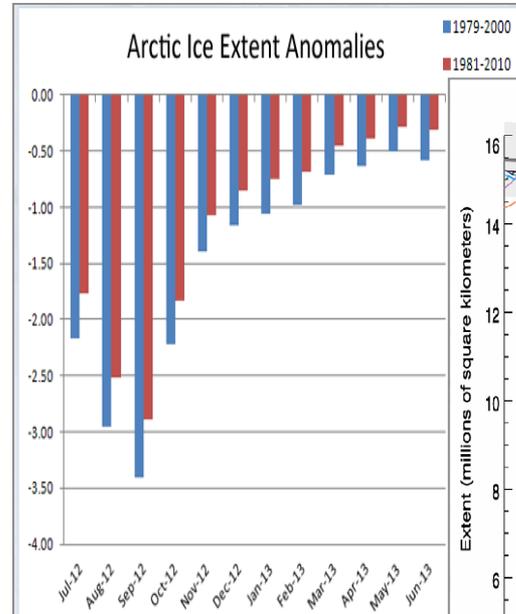
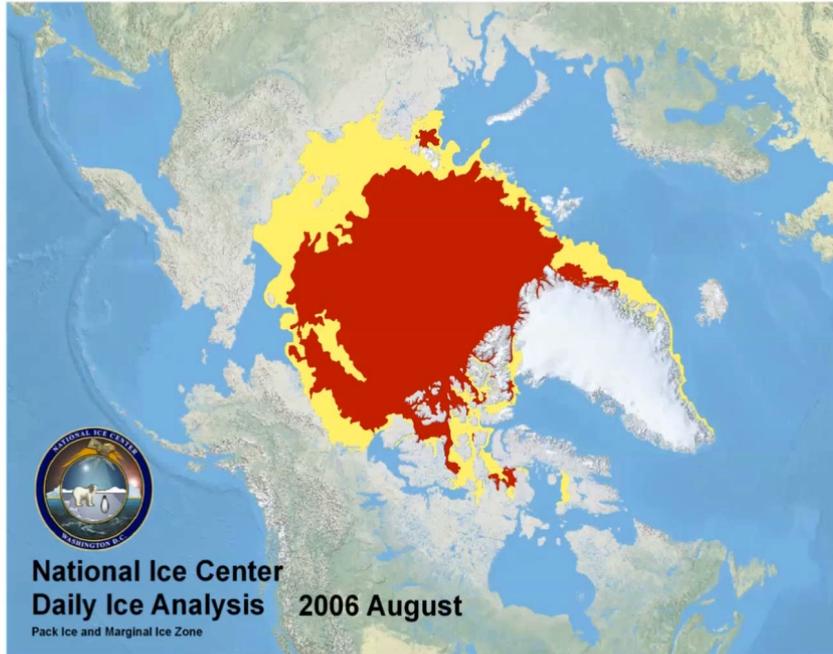
Is the U.S. ready?



Picture: STEPHEN KAZLOWSKI /
BARCROFT MEDIA



Change is Happening

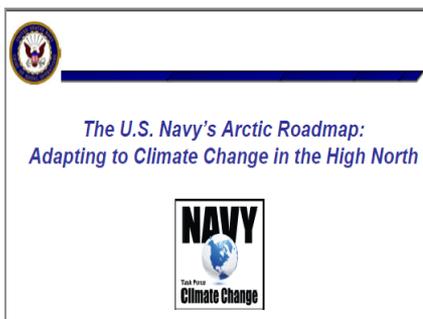
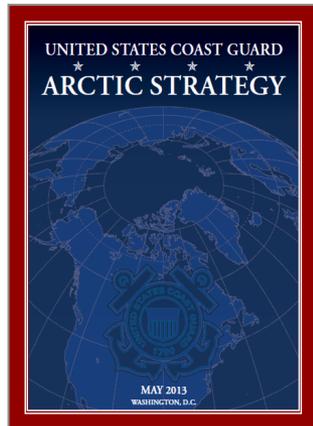
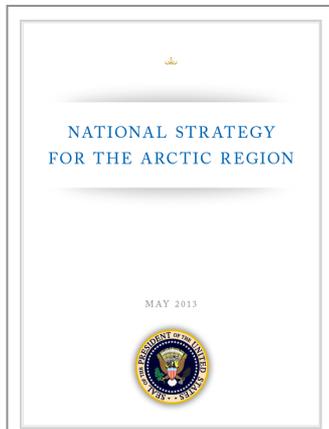


National Snow and Ice Data Center, Boulder CO
 30 Jun 2013



U.S. National Strategy

National Interests



United States to "assert a more active and influential national presence to protect its Arctic interests and project sea power throughout the region," and to secure free passage of vessels through the Northwest Passage and the Northern Sea Route."

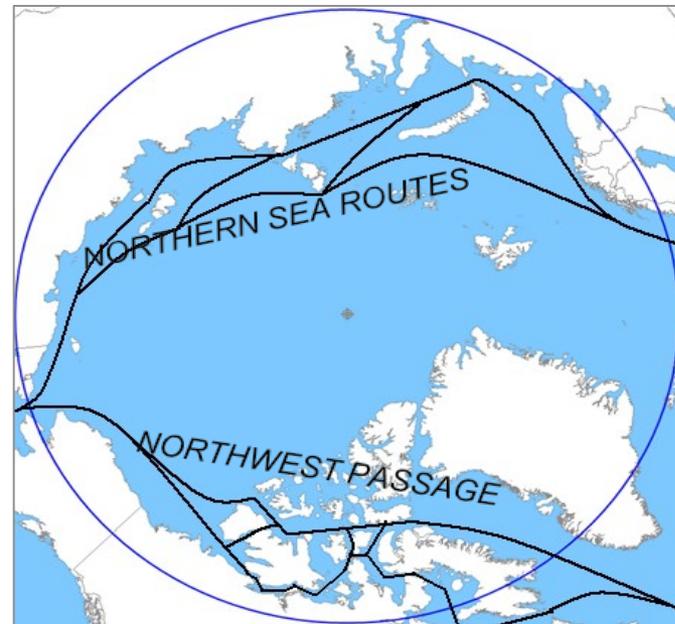
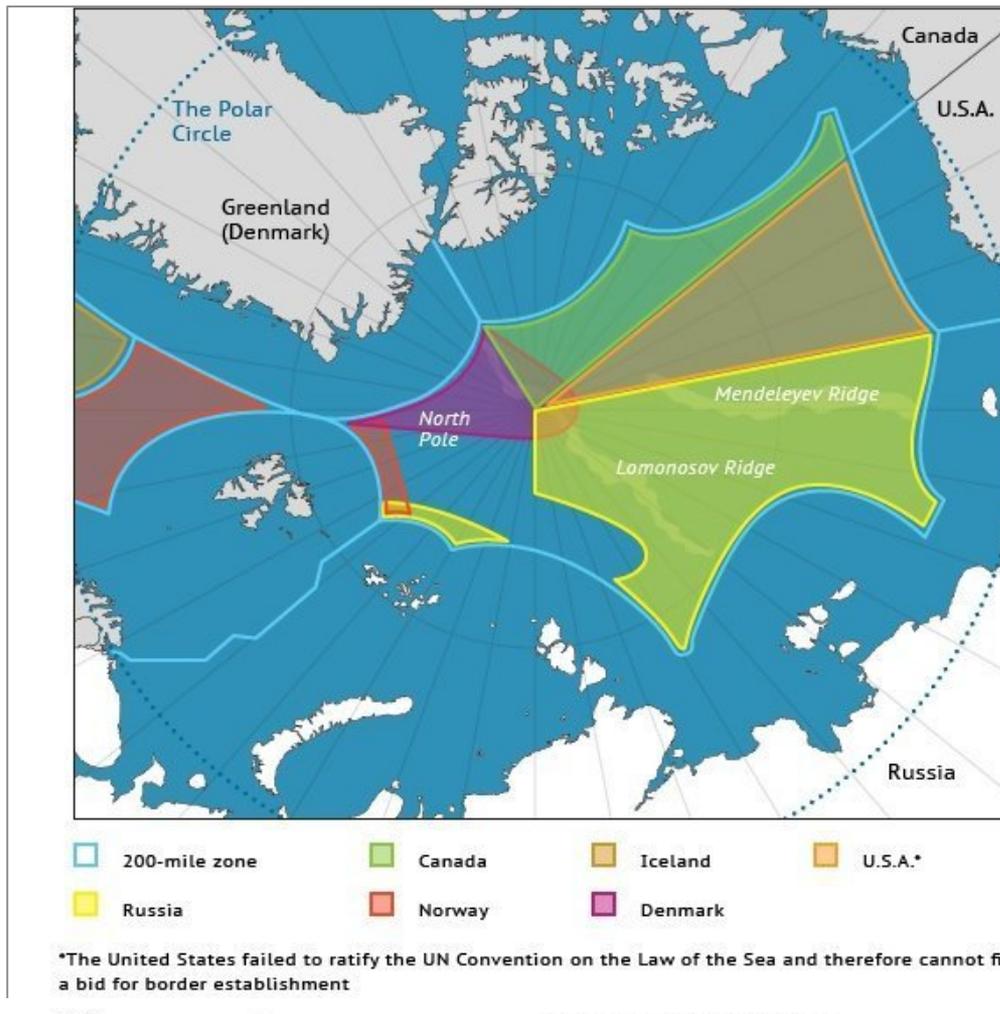
Emphasis:

1. Advancing U.S. security interests
2. Pursuing responsible Arctic region stewardship
3. Strengthening international cooperation

"The Arctic is one of the last true frontiers in the United States. It is becoming a new frontier in our foreign policy." *Fmr U.S. Dept Secretary Of State, Tom Nides, Aug 2012*



Sovereign Waters/International Waters



- UNCLOS-'Law of the Sea' not ratified by U.S.
- Increased geo-political interest from countries such as China, Korea, and India
- 2015-2017 U.S. will Chair Arctic Council



Why are we here?

Safety of Navigation



Resource Exploitation



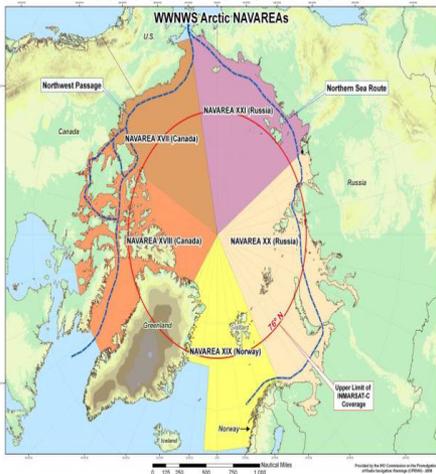
Military Presence



Science and Research



Distance and Infrastructure



Environment



Adventure Seekers



Air Travel



