The U.S. Navy’s Arctic Roadmap

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Climate Change Update

The Globally Averaged Rate of Warming is NOT Slowing Down

Arctic Sea Ice Continues to Melt & Thin

Greenland Ice Sheet Mass Loss Is Accelerating

Solar Irradiance Trend is Constant
Task Force Climate Change

Establishment
Chief of Naval Operations
Executive Board on May 15, 2009

Composition
Navy, NOAA, USCG in core group with Joint, interagency, international support

Charter
Global climate change impacts with near term Arctic focus
Navy Arctic Roadmap

Roadmap End State

5 Focus Areas

Strategy, Policy, Plans
Investments
Operations & Training
Comms & Outreach

Assessment & Prediction

Timeline for change indicates the Arctic presents a challenge, not a crisis
Arctic Region Policy


- Develop greater capability & capacity to protect US borders
- Increase Arctic Maritime Domain Awareness
- Protect global mobility of US vessels and aircraft
- Project a sovereign US maritime presence
- Encourage peaceful resolution of disputes
- Cooperate with other nations to address increase in shipping
- Establish capability to address hazards in the Arctic, including icebreaking and cooperative search and rescue plans
- Evaluate feasibility of using the Arctic for strategic sealift

No new Navy missions, but implies “be prepared to increase Arctic engagement”

Maritime Strategy

Strategic Imperatives
- Regionally concentrated, forward-deployed task forces to limit regional conflict
- Deter major power war
- Win our Nation’s wars as part of a joint campaign
- Contribute to homeland defense in depth
- Foster and sustain cooperative relationships with more international partners
- Prevent or mitigate disruptions or crises

Expanded Core Capabilities
- Sea Control
- Power Projection
- Forward Presence
- Deterrence
- Maritime Security
- Humanitarian Assistance / Disaster Response

The Maritime Strategy applies equally in the Arctic as in other regions of the globe

The Changing Arctic Environment

- Access is increasing
  - Our best estimate: summer ‘ice free’ conditions in 25-30 years
  - Confidence level is low
- Complex Environment
  - Observation & predictions are challenging
  - Arctic climate entering more dynamic mode
  - Highly variable
  - IPCC Projections – not sufficient
- Harsh under normal conditions

Despite uncertainty in predictions, the timeline for change implies the Arctic is a challenge, not a cession
Considerations

The Arctic will be “ice-diminished” NOT “ice-free” until the end of the century
Desired effects for the Navy in the Arctic

Science-based approach, informed investments, cooperative partnerships
Phase 1 (FY10)
Fleet readiness assessment, external studies, strategic implementation plan
Monitor Polar SATCOM Program***
Arctic TTX & LOE
POM-12 investments for air-ocean-ice numerical prediction

Phase 2 (FY11-12)
POM-14 CBA, NSP, & SPPs address the Arctic
Arctic SAREX, Arctic Edge, Northern Edge NANOOK ***
Environmental assessments
Interagency partnership for air-ocean-ice numerical prediction
Support National Ocean Policy / Marine Spatial Planning Implementation For Arctic***

Phase 3 (FY13-14)
Execute POM-14
Implement expanded / new cooperative partnerships
Arctic UUV operations
Update roadmap ICW QDR

Navy recognized as a valued joint, interagency, & international partner in the Arctic

*** Indicates recurring action
Questions?