The Emerging Arctic
Security on the Last Frontier
SEAPOWER
THE NEW COLD WAR?
U.S., Canada, Russia, Denmark Rush to Stake Arctic Claims

TIME
Who Owns the Arctic?
As global warming erodes the Arctic's ice floes, the global battle for resources heats up.

HARPER'S
COLD RUSH
The Coming Fight for the Melting North
by McKenzie Funk
MORE WATER – MORE COAST
GUARD RESPONSIBILITIES

Sea Ice Thickness (10-year average)

1950’s

2050’s

100% of 1955 volume

54% of 1955 volume

(cm)
MORE WATER – MORE COAST GUARD RESPONSIBILITIES

[Map showing changes in sea ice concentration from 1979-2000 median minimum to 2005 and 2007 minimums.]

- 1979-2000 median minimum
- 2005 minimum
- 2007 minimum

Sea Ice Concentration (percent)

September 16, 2007

Scale: 500 km
INCREASED ARCTIC ACTIVITY
SHIPPING CHALLENGES
National Security
Bering Strait Summer Transits 2008

- **Bering Strait transits on the U.S. side**
  ~73 vessels with ~104 transits through
  (mostly research vessels)

- **Kivalina/Red Dog Mine**
  ~ 30 round trips
  (bulk carriers & tugs)

- **Russian transits**
  30+ vessels with over 80 transits
  (mostly cargo carriers)

- **Total Bering Strait transits**
  130+ vessels making over 245 transits.
Coastal Erosion

Loss of protection from Fall storms
TESTING CAPABILITIES
Salliq: Lessons Learned

• Infrastructure Insufficient
• Lack of effective communication
• Small boats/short range helos ineffective
• Require icebreakers or ice hardened vessels with embarked helos
• Input from indigenous people imperative
LOGISTICAL CHALLENGES
OUTREACH TO LOCAL COMMUNITIES
HEALY IN 1ST YEAR ICE
Pending Operations

- CGC Polar Sea in Bering/Chukchi Sea Oct-Dec, Feb-April
- Continued ADA flights
- Waterways Analysis
What Keeps Me up at Night

Exxon Valdez

Prinsendam