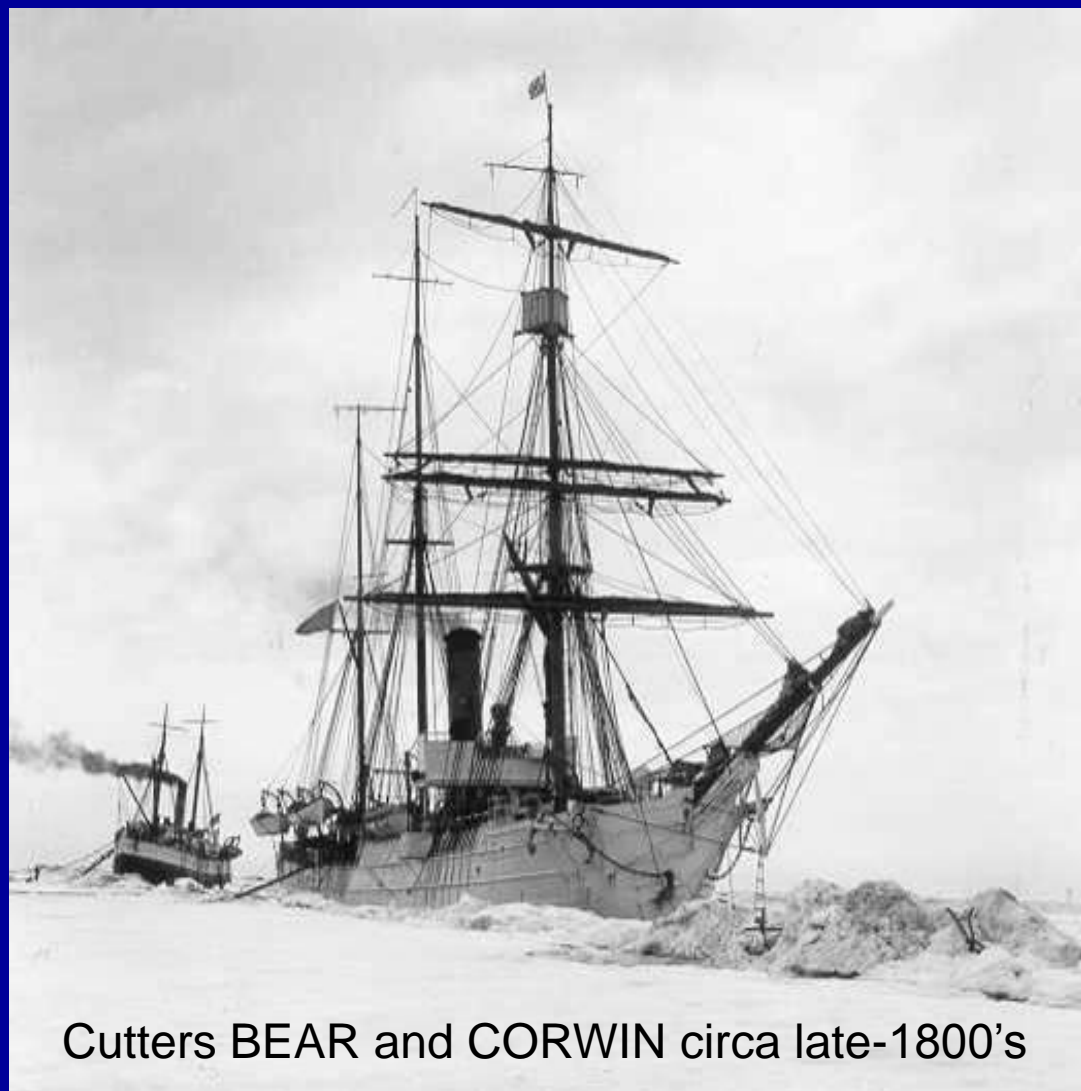




Coast Guard Arctic Operations



Cutters BEAR and CORWIN circa late-1800's

Arctic Port
Planning Charrette

16-17 May 2011

Captain Adam
Shaw

Chief of Prevention

Seventeenth Coast
Guard District,
Alaska



***There's water where
there used to be ice***



Captain William Deal (Commanding Officer of Coast Guard station Kodiak) flying the HC-130 Hercules over the coast near Barrow on the last Arctic Domain Awareness flight of the year. Photo by Dennis Zaki

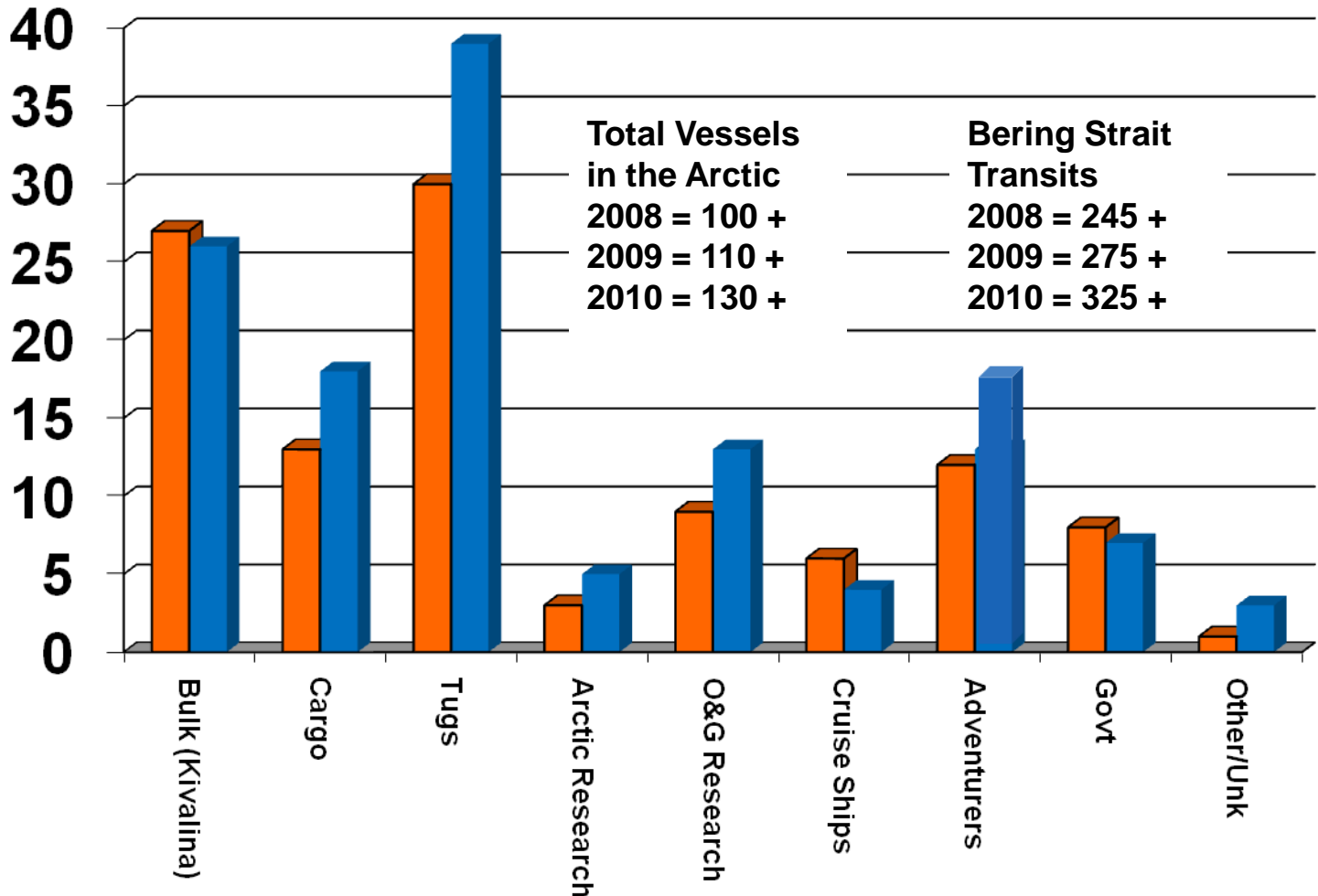
Lot's of water!



Increased Vessel Activity



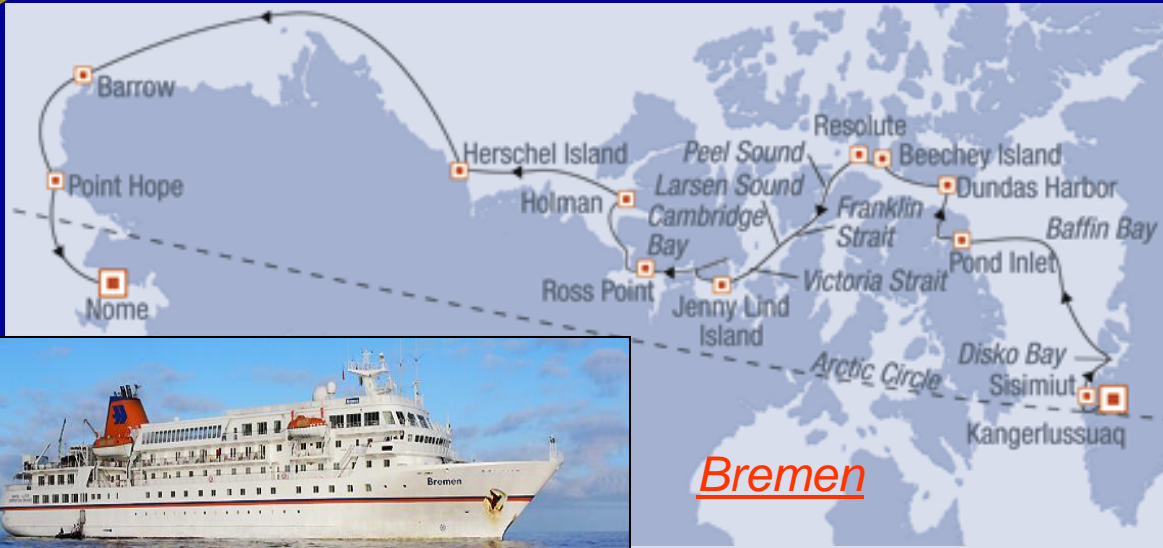
2009 2010





Cruise Ships in the Alaskan Arctic

BREMEN
164 passengers
15 Aug to 08 Sep 09
from Kangerlussuaq to
Greenland to Nome
with stops in Barrow
and Point Hope



Bremen

HANSEATIC
184 passengers
13 Aug – 05 Sep 09
from Nome to
Reykjavik/Iceland with
stops in Point Hope
and Point Barrow



Hanseatic



Increasing Cargo Ops in the Arctic & Western Alaska



- Lifeblood of arctic villages
- Piers few and far between
- Normal ops to run barges aground to offload
- Single-hulled barges

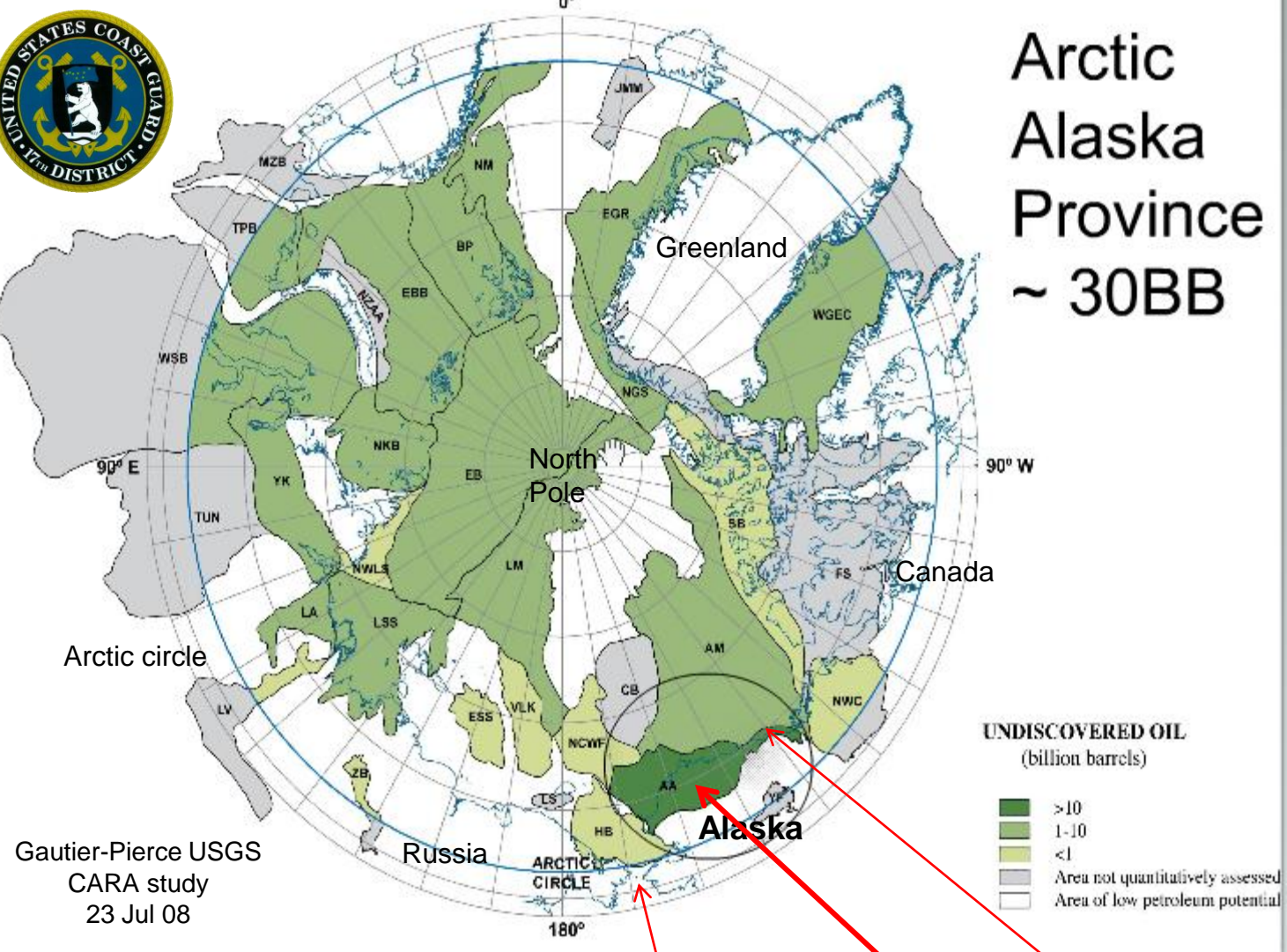




Arctic Alaska Province ~ 30BB

Alaska's
North
Coast:

Potential
to be the
richest
oil field in
the Arctic



Oil

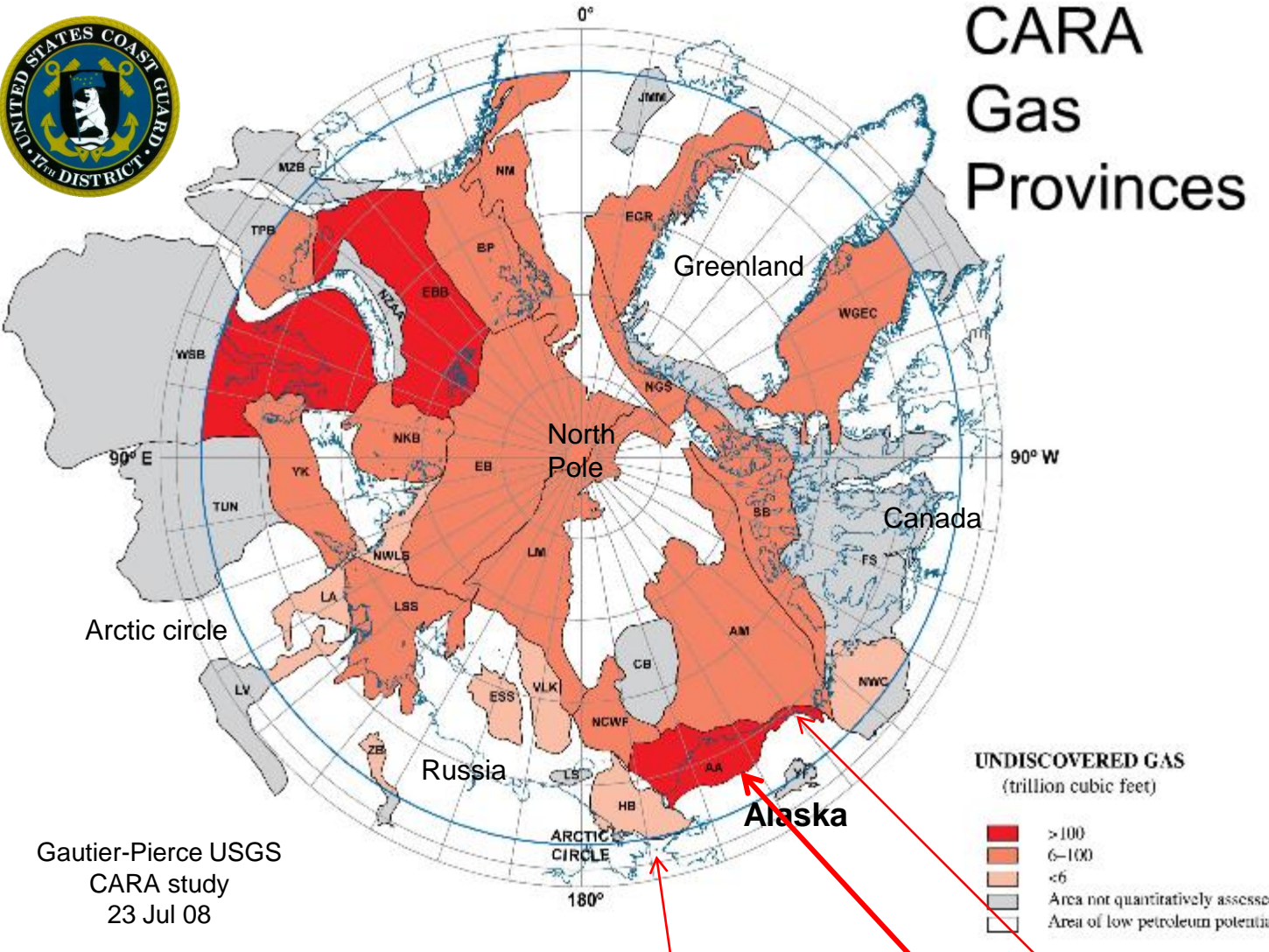
West boundary
of Alaska
(Bering Strait)

East boundary of Alaska
(Canadian Border)

Undiscovered oil in arctic



CARA Gas Provinces



Gautier-Pierce USGS
CARA study
23 Jul 08

Alaska's North Coast:

Potential to be the richest natural gas field in the Arctic ... Only Russia has similar potential for natural gas

East boundary of Alaska

West boundary of Alaska

Undiscovered natural gas in arctic

Gas



Minerals



Red Dog Port - 15 March 08



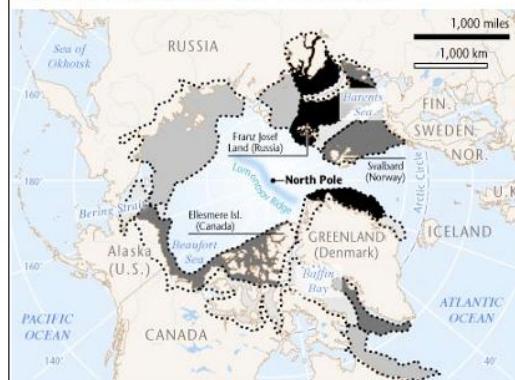
8
ore carrier receiving a tender boat offshore



Expanding Resource Development

- Hydrocarbons (Oil & Gas) & minerals (Manganese, Copper, Nickel, Cobalt)
- Oil companies bid nearly \$2.7 billion for Chukchi Sea rights.

Arctic Oil and Gas Potential



Area shown

Estimated Oil, Gas Yet to Be Found

In billions of barrels of oil equivalent



SOURCE: Wood Mackenzie
Map based on a Financial Times graphic

Open for development

The federal government gave final approval Wednesday for oil and natural gas development off Alaska's northwest shore.

Chukchi Sea

• Cape Lisburne

Chukchi Sea Sale

ALASKA

RUSSIA

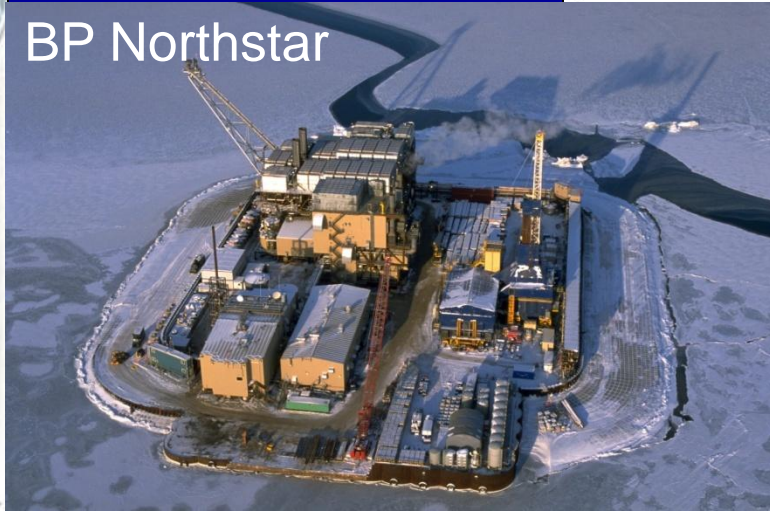
Bering Strait
Bering Sea

• Nome

0 100 mi.
0 100 km.



BP Northstar





Russia promoting arctic shipping route



1000' long Aframax ice-reinforced oil tanker carrying 70,000 metric tons of gas condensate from Europe to Asia above Russia through the Bering Strait... 5,000 less miles than Suez.

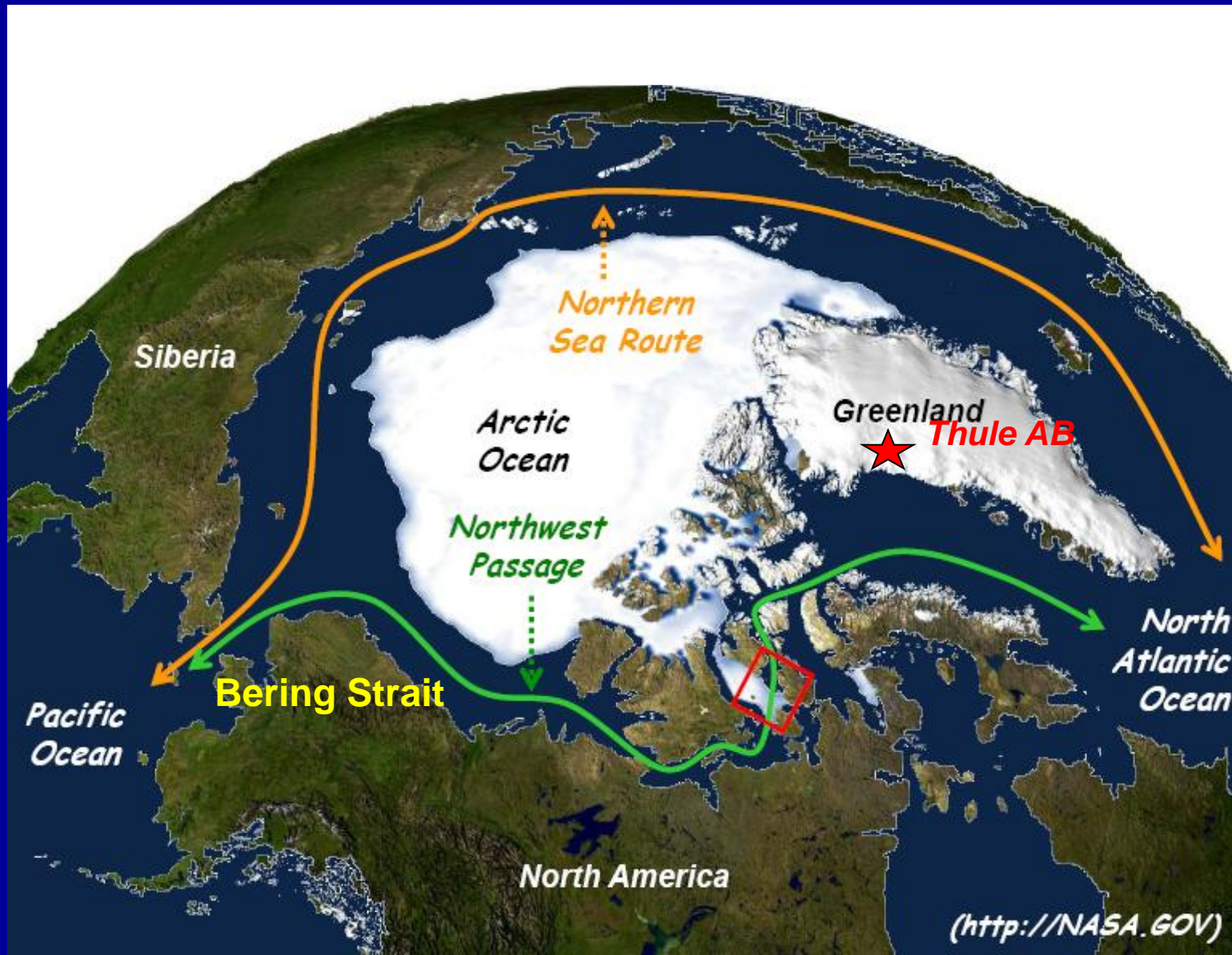


Escorted by three Russian nuclear icebreakers

Russia expects an increase to six or more similar transits in 2011...

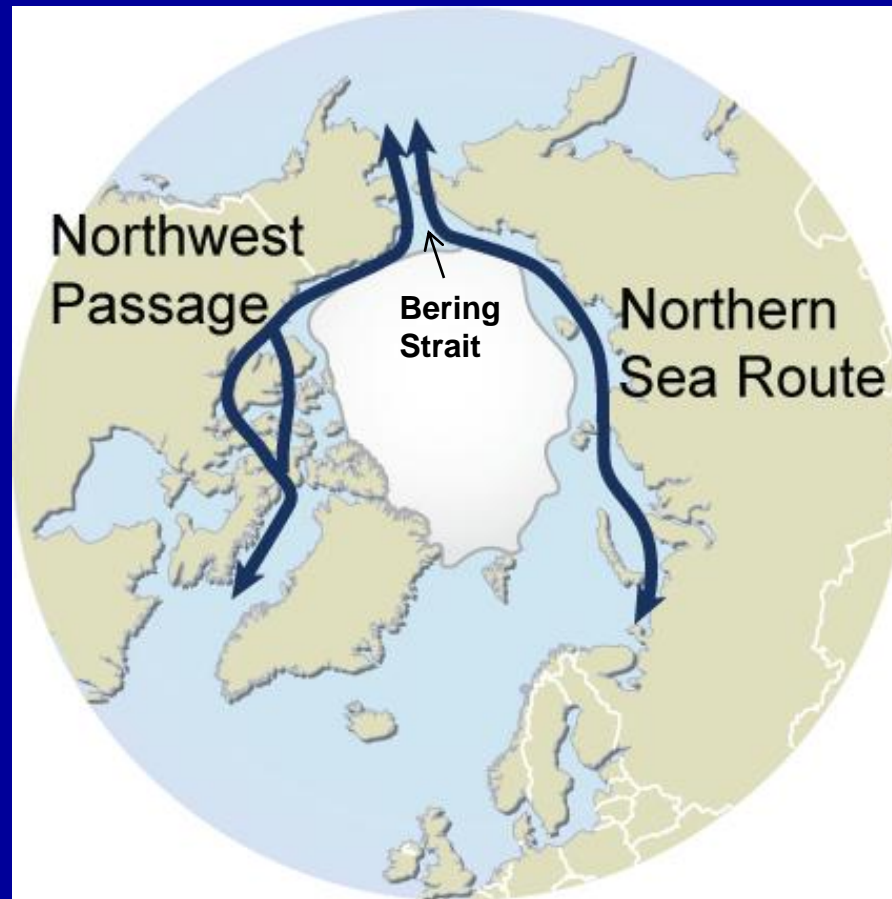


Maritime Transportation System





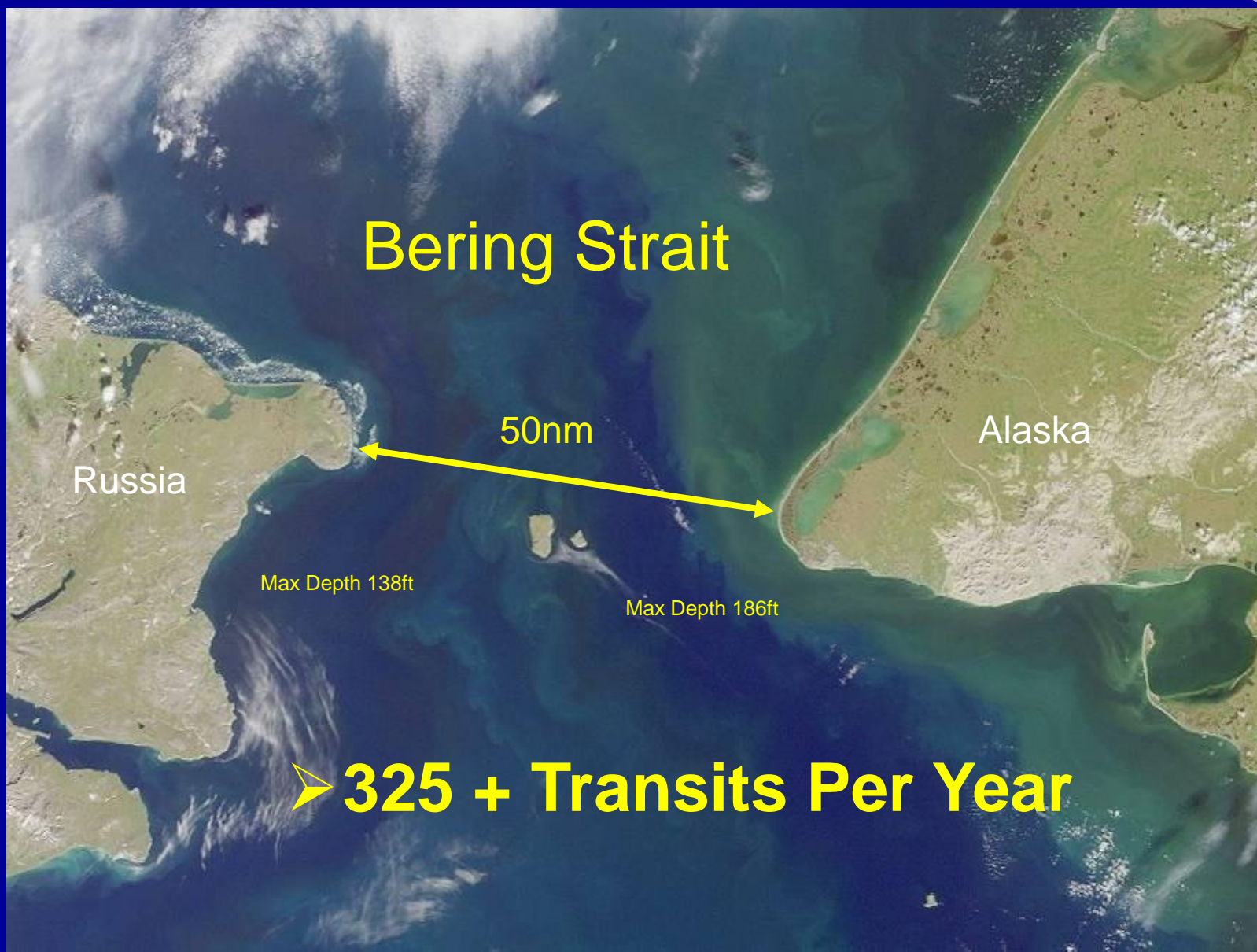
Only one way in or out of the Arctic...



For over half the world!



Alaska's Strait of Gibraltar



Bering Strait

50nm

Russia

Alaska

Max Depth 138ft

Max Depth 186ft

➤ 325 + Transits Per Year



US Arctic Policy Goals



- Meet National & homeland security needs
- Protect the Arctic environment & conserve it's biological resources
- Ensure that natural resource mgmt & economic development in the region is environmentally sustainable
- Strengthen cooperation among Arctic nations
- Involve indigenous communities in decisions that affect them
- Enhance scientific monitoring & research

THE WHITE HOUSE
Office of the Press Secretary

For Immediate Release January 12, 2009

January 9, 2009

NATIONAL SECURITY PRESIDENTIAL DIRECTIVE/NSPD -- 66
HOMELAND SECURITY PRESIDENTIAL DIRECTIVE/HSPD -- 25

MEMORANDUM FOR THE VICE PRESIDENT
THE SECRETARY OF STATE
THE SECRETARY OF THE TREASURY
THE SECRETARY OF DEFENSE
THE ATTORNEY GENERAL
THE SECRETARY OF THE INTERIOR
THE SECRETARY OF COMMERCE
THE SECRETARY OF HEALTH AND HUMAN SERVICES
THE SECRETARY OF TRANSPORTATION
THE SECRETARY OF ENERGY
THE SECRETARY OF HOMELAND SECURITY
ASSISTANT TO THE PRESIDENT AND
CHIEF OF STAFF
ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION
AGENCY
DIRECTOR OF THE OFFICE OF MANAGEMENT AND BUDGET
DIRECTOR OF NATIONAL INTELLIGENCE
ASSISTANT TO THE PRESIDENT FOR NATIONAL SECURITY
AFFAIRS
COUNSEL TO THE PRESIDENT
ASSISTANT TO THE PRESIDENT AND DEPUTY NATIONAL
SECURITY ADVISOR FOR INTERNATIONAL ECONOMIC
AFFAIRS
ASSISTANT TO THE PRESIDENT FOR HOMELAND SECURITY
AND COUNTERTERRORISM
CHAIRMAN, COUNCIL ON ENVIRONMENTAL QUALITY
DIRECTOR OF THE OFFICE OF SCIENCE AND TECHNOLOGY
POLICY
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
COMMANDANT, U.S. COAST GUARD
DIRECTOR, NATIONAL SCIENCE FOUNDATION

SUBJECT: Arctic Region Policy

I. PURPOSE

A. This directive establishes the policy of the United States with respect to the Arctic region and directs related implementation actions. This directive supersedes Presidential Decision Directive/NSC-26 (PDD-26; issued 1994) with respect to Arctic policy but not Antarctic policy; PDD-26 remains in effect for Antarctic policy only.

B. This directive shall be implemented in a manner consistent with the Constitution and laws of the United States, with the obligations of the United States under the treaties and other international agreements to which the United States is a party, and with customary international law as recognized by the United States, including with respect to the law of the sea.



NSPD66/HSPD 25



In carrying out this policy as it relates to national security and homeland security interests in the Arctic, **the President has directed** the Secretaries of State, Defense, and Homeland Security, in coordination with heads of other relevant executive departments and agencies, to:

- *Develop greater capabilities and capacity*, as necessary, to protect United States air, land, and sea borders in the Arctic region;
- *Increase Arctic maritime domain awareness* in order to protect maritime commerce, critical infrastructure, and key resources;
- *Preserve the global mobility* of United States military and civilian vessels and aircraft throughout the Arctic region
- *Project a sovereign United States maritime presence in the Arctic* in support of essential United States interests; and
- *Encourage the peaceful resolution of disputes* in the Arctic region.



Law of the Sea Treaty



- U.S. must ratify the United Nations Law of the Sea Treaty (UNLOS) in order to make extended continental shelf claims in excess of the 200 nautical mile Exclusive Economic Zone
- Persistent presence is needed in the U.S. Arctic in order to maintain sovereign rights and to preserve the option to make an Extended Continental Shelf Claim
- Quoting Canadian Prime Harper regarding the Arctic: “Use it or lose it.”



USCG Authorities in the Arctic



No other federal agency has a more expansive set of authorities than the USCG. In the maritime Arctic as elsewhere throughout the Nation... and to a lesser extent throughout the world... the United States Coast Guard carries out three basic roles: maritime safety, security and stewardship which are further subdivided into the following eleven statutory missions:

- Defense readiness
- Coastal security, ports and waterways
- Search and rescue
- Marine environmental protection
- Living marine resources (fisheries, etc)
- Ice operations
- Aids to navigation
- Marine safety
- Other law enforcement (interagency support)
- Migrant interdiction
- Drug interdiction

*Simplistically speaking:
The Coast Guard's job is to protect humans from the oceans, rivers and lakes... and to protect the oceans, rivers and lakes from humans... and to protect good humans from bad humans on those same oceans, rivers and lakes.*

The Coast Guard's responsibilities in the Arctic Ocean are no different than in the Atlantic Ocean, Gulf of Mexico, Great Lakes or any other location that might fall under Congressionally mandated Coast Guard jurisdiction.



ARCTIC SHIELD

- Arctic Domain Awareness (ADA) Flights
- CANUSNORTH Tabletop Exercise
- Icebreaker Science Mission/Icebreaker
- Mobile Forward Operating Location
- Water Safety & Young Alaskan Engagement
- Continued Native Alaskan Engagement





North Pole C-130 Flight Oct 2007

**Arctic Domain Awareness (ADA) flights
started in 2007**

Twice monthly flights Mar-Dec



2008-2010 Surveys: Joint Canadian/US



US Coast Guard Cutter HEALY:
breaking ice

**Canadian Coast Guard Cutter
LOUIS S. ST. LAURENT:**
following with scientific equipment





CGC ALEX HALEY

Arctic Patrol Sep – Oct 2009



Vertical Replenishment
via embarked HH-65
helo

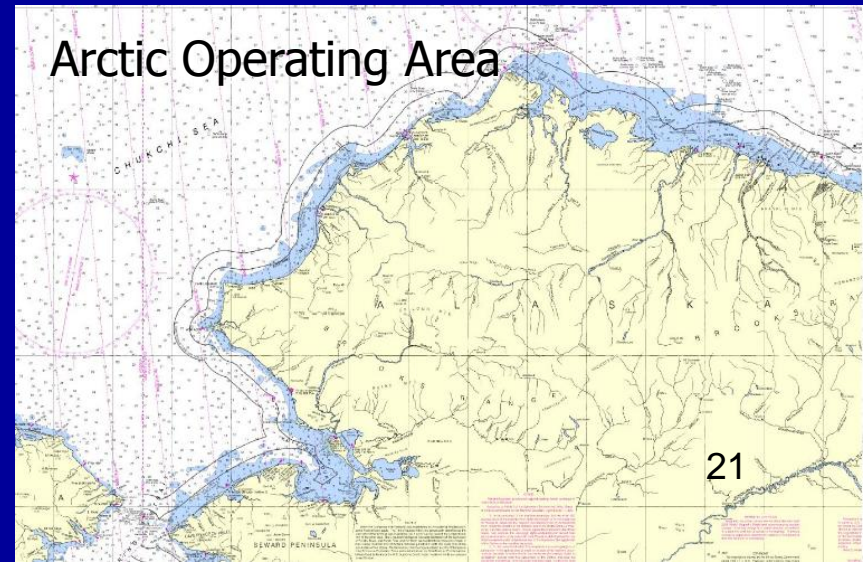


ALEX HALEY underway with sea ice



ALEX HALEY MOORED IN NOME, AK

- Patrol Goals and Accomplishments
 - Arctic Domain Awareness
 - Patrolled Arctic for 21 days.
 - Community Outreach
 - Met with Mayor of Kotzebue.
 - Embarked helicopter served as static display for Kotzebue schoolchildren.
 - Exercise VERTREP capability
 - Conducted VERTREP via embarked HH-65 off Kotzebue.





Alaskan Native Outreach



Tours of C-130, H-65 and Cutter ALEX HALEY



Water Safety Training at schools



Showing communities and Students what we do... Navigation, Law Enforcement, Emergency Medical Response





Lessons Learned



- **Infrastructure Insufficient**
- **Lack of effective communication**
- **Small boats & short range helos ineffective**
- **Require icebreakers or ice hardened vessels with embarked helos**
- **Expensive!**
- **Input from indigenous people important**





U.S. ICEBREAKERS

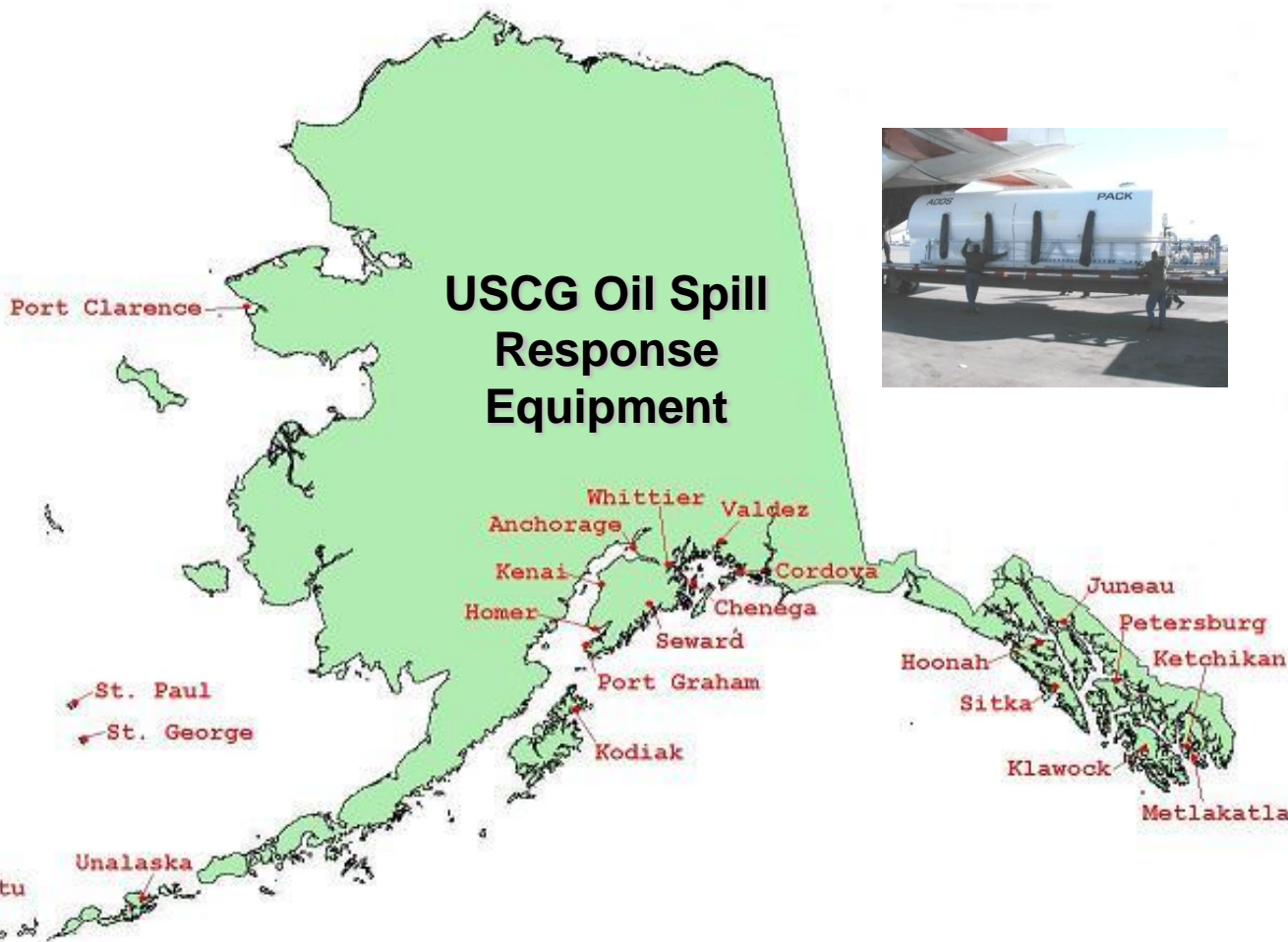


- Operating Budget in 2010 remains with National Science Foundation
- POLAR STAR reactivation 2013
- Long term icebreaker plans uncertain





Limited Coast Guard Oil Spill Response For Non-RP





Long Distance Search And Rescue

Kodiak to Point Barrow is 940 miles across three mountain ranges



About the same distance as LA to Seattle!



Questions?

Captain Adam Shaw
Chief of Prevention
17th Coast Guard District
Adam.J.Shaw@uscg.mil
(907) 463-2803