



U.S. National Ocean Policy: A Strategic Action Plan for “Changing Conditions in the Arctic”

John Farrell

U.S. Arctic Research Commission





USN Ice Camp



USS Connecticut

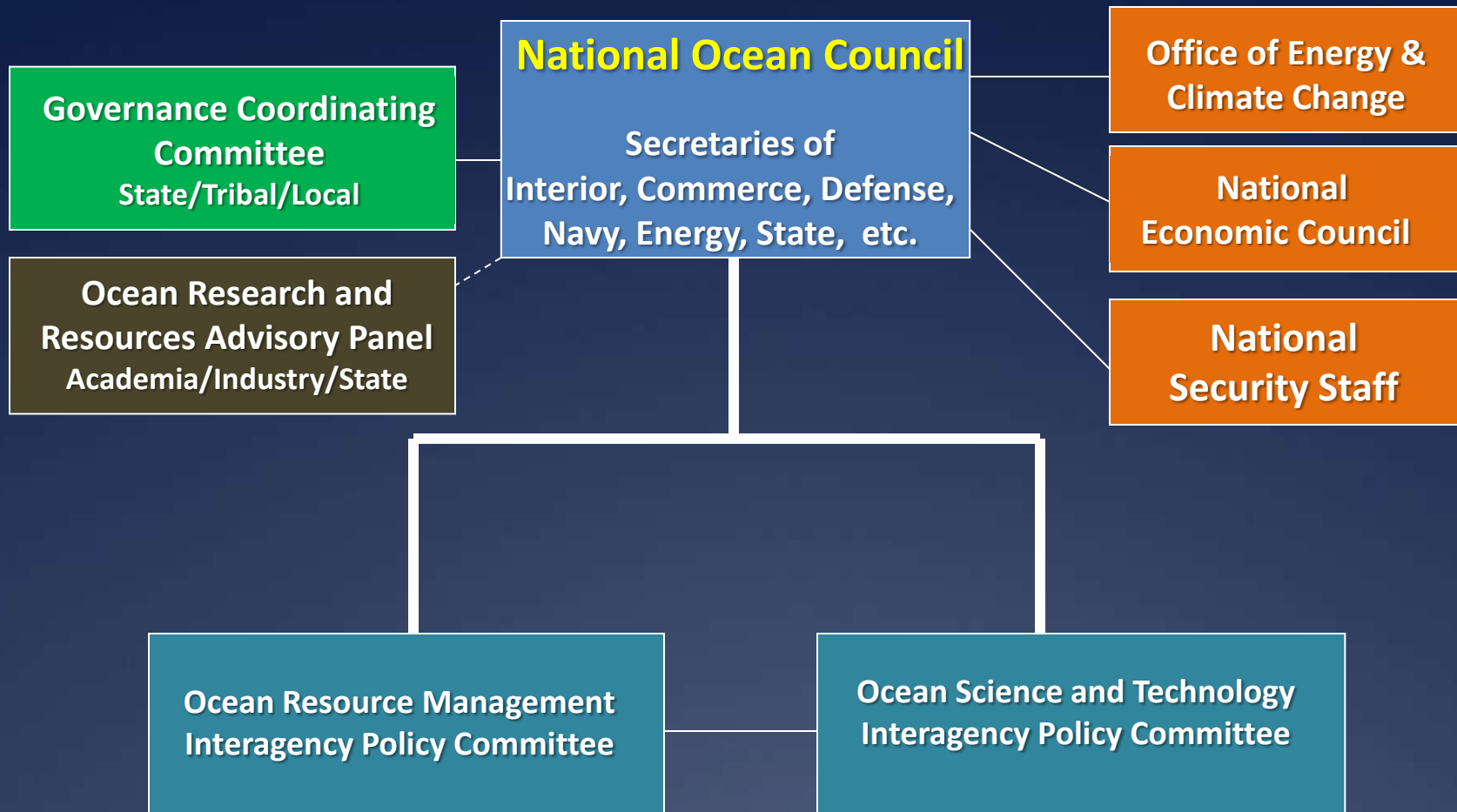


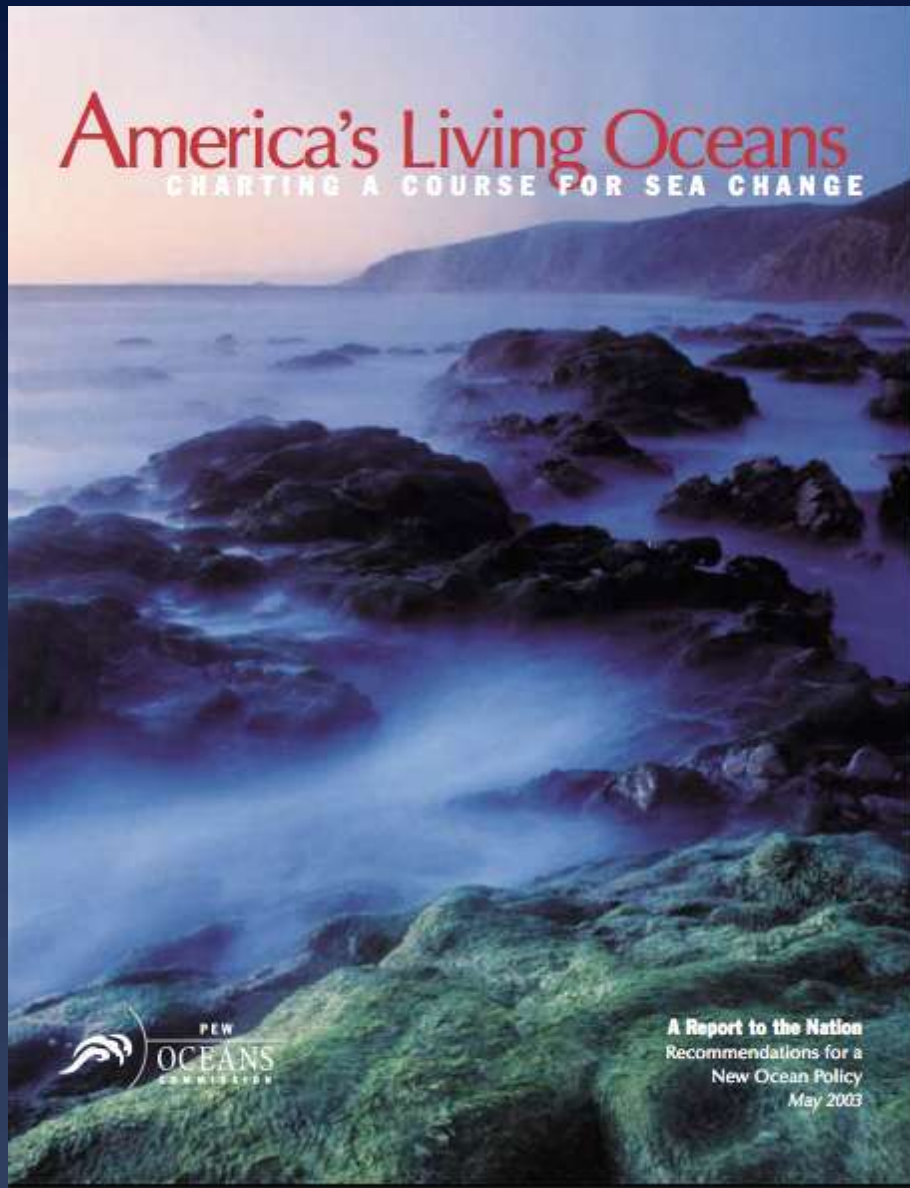
Treadwell, Titley, Colvin, Carr, 3/16/11

New National Ocean Policy

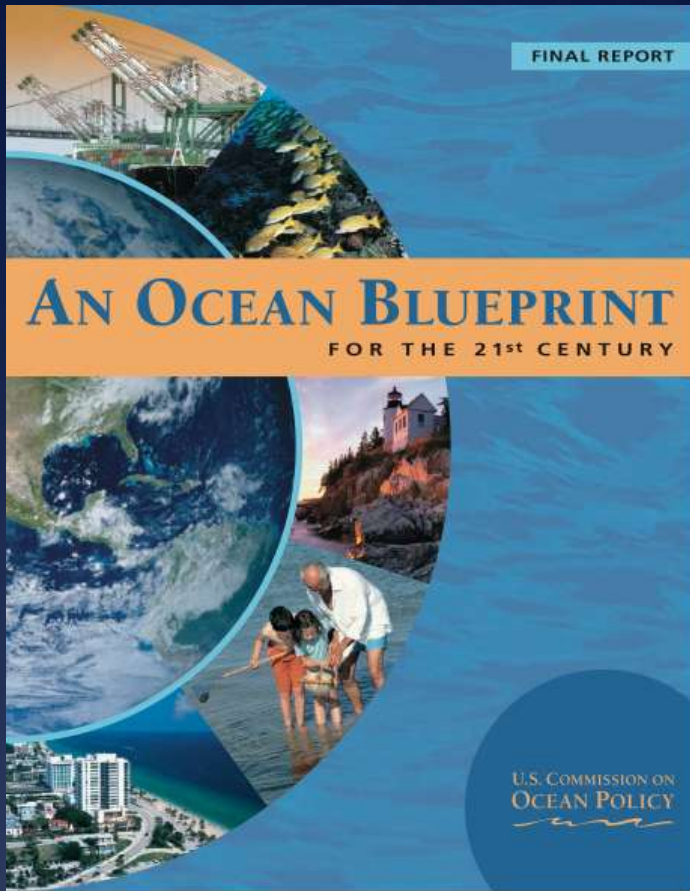


National Ocean Council

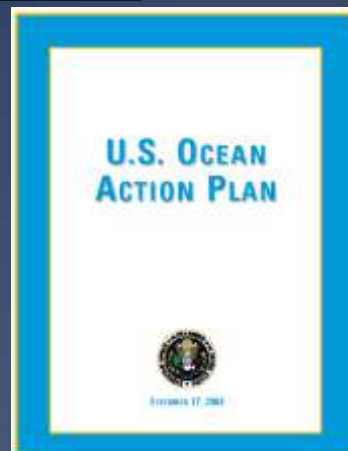




2003



2004



JOINT OCEAN COMM
2007 U.S. OCEAN POL

Subject	Grade	Comments Examples below do not See full comments att
National Ocean Governance Reform (2006=C-)	D 4. Lack of policy and framework hampers progress. Consideration, but no enactment of legislation.	Notable Progress <ul style="list-style-type: none"> House deliberation on Progress by the House National stakeholder Improvements Needed <ul style="list-style-type: none"> Reform national ocean codifies NOAA, and Pass pending ocean li Reauthorize and stre Oceans and Huma Create a national fra
Regional and State Ocean Governance Reform (2006=A-)	A- Promising strides in regions and states on a variety of ocean issues.	Notable Progress <ul style="list-style-type: none"> Progress establishing progress in AK, CA, F Significant progress Improvements Needed <ul style="list-style-type: none"> Strengthen coastal i Implement regional i
International Leadership (2006=D-)	C+ 9. Significant support for Law of the Sea Convention but need Senate approval.	Notable Progress <ul style="list-style-type: none"> Presidential support Senate Foreign Relat Active support for the Convention by a bipartisan coalition of industry, military, and environmental leaders Administration support for international ocean policy issues Improvements Needed <ul style="list-style-type: none"> Senate approval of the Law of the Sea Convention
Research, Science, and Education (2006=D+)	C- 8. Increasing recognition of the need to strengthen ocean science and education but limited progress.	Notable Progress <ul style="list-style-type: none"> Administration focus on implementing the Ocean Research Priorities Plan and Implementation Strategy Continued efforts to develop ocean and coastal observing systems Expanded federal support and coordination on ocean education Congressional deliberation on ocean science legislation Improvements Needed <ul style="list-style-type: none"> Full implementation of the Ocean Research Priorities Plan and Implementation Strategy Pass pending ocean science legislation on ocean observing, ocean acidification research, ocean exploration, and coastal and ocean mapping Reestablish a congressional science and technology advisory office
Fisheries Management Reform (2006=B+)	C+ 4. Slow progress implementing fisheries management reform.	Notable Progress <ul style="list-style-type: none"> Initial step implementing the Magnuson-Stevens Reauthorization Act Fewer stocks overfished or experiencing overfishing Progress toward establishing limited access privilege programs U.S. leadership on international fisheries and habitat conservation Improvements Needed <ul style="list-style-type: none"> Expedite implementation and funding for Magnuson-Stevens Reauthorization Act reforms Increase emphasis on incorporating science into decision-making Improve recreational fisheries monitoring and management Increase commitment to international fisheries conservation
New Funding for Ocean Policy and Programs (2006=F)	D+ 9. Efforts to address funding needs but still inadequate.	Notable Progress <ul style="list-style-type: none"> House joined the Senate in increasing funding support for NOAA Presidential funding support for Ocean Research Priorities Plan and Implementation Strategy Ocean research recognized as part of national competitiveness initiative Improvements Needed <ul style="list-style-type: none"> Increase funding for ocean research, management, and infrastructure, including ocean and coastal observing systems Establish an integrated budget for federal ocean programs Establish a dedicated ocean trust fund for state and federal programs
Links between Oceans and Climate Change (New)	C New Subject: Inher recognition of role of oceans but need real progress.	Notable Progress <ul style="list-style-type: none"> Expanded state efforts to mitigate and adapt to impacts of climate change on coastal communities and resources Increased recognition by Congress of the role of oceans in climate change and the impacts of this change on oceans and coasts Improvements Needed <ul style="list-style-type: none"> Enact legislation that incorporates ocean science, management, and education into a strategy to mitigate and adapt to climate change Expand ocean research, observing, modeling, and information delivery systems Increase federal support of state and regional efforts to address ocean-related impacts of climate change

JOINT OCEAN COMMISSION INITIATIVE

CONTACT:

Laura Cantral, 202-354-6444

Joint Initiative Applauds Interagency Ocean Policy Task Force Recommendations

White House Interagency Ocean Policy Task Force final recommendations call for a strong national ocean policy to protect, maintain, and restore U.S. oceans, coasts and Great Lakes

2010

President Barack Obama
The White House
1600 Pennsylvania Avenue NW
Washington, DC 20500

October 18, 2010

- Adequate funding
- Ocean investment fund

Dear President Obama:

On behalf of the newly formed Leadership Council of the Joint Ocean Commission Initiative we enthusiastically applaud your vision and foresight in establishing a National Ocean Policy through Executive Order 13547. Now that a coherent policy has been articulated, we ask you to affirm your commitment to implementing this vision and secure your ocean legacy by including **adequate funding in the FY 2012 budget request for ocean and coastal programs.** Increased funding in the FY 2012 budget will be instrumental in supporting a determined effort by federal agencies and their partners to implement the priorities identified in your Executive Order. As the FY 2012 budget proposal is developed, we recommend a particular focus on three priority areas:

- 1) **Establish an Ocean Investment Fund**
- 2) **Implement the National Ocean Policy**
- 3) Enhance our ocean science enterprise



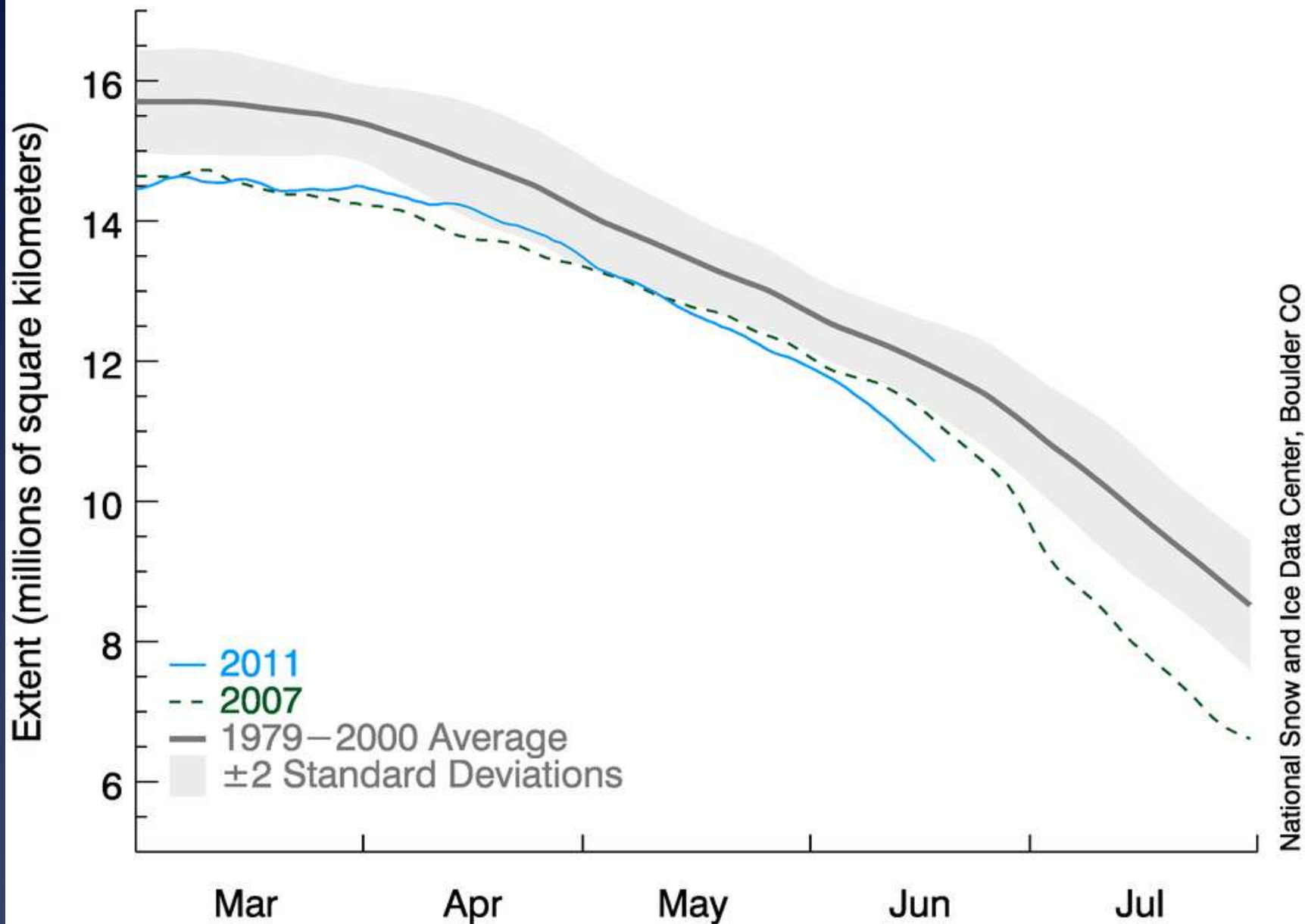
SMOKIN' POLE
THE QUEST
FOR
ARCTIC
RICHES







Arctic Sea Ice Extent (Area of ocean with at least 15% sea ice)



National Snow and Ice Data Center, Boulder CO

7 themes:

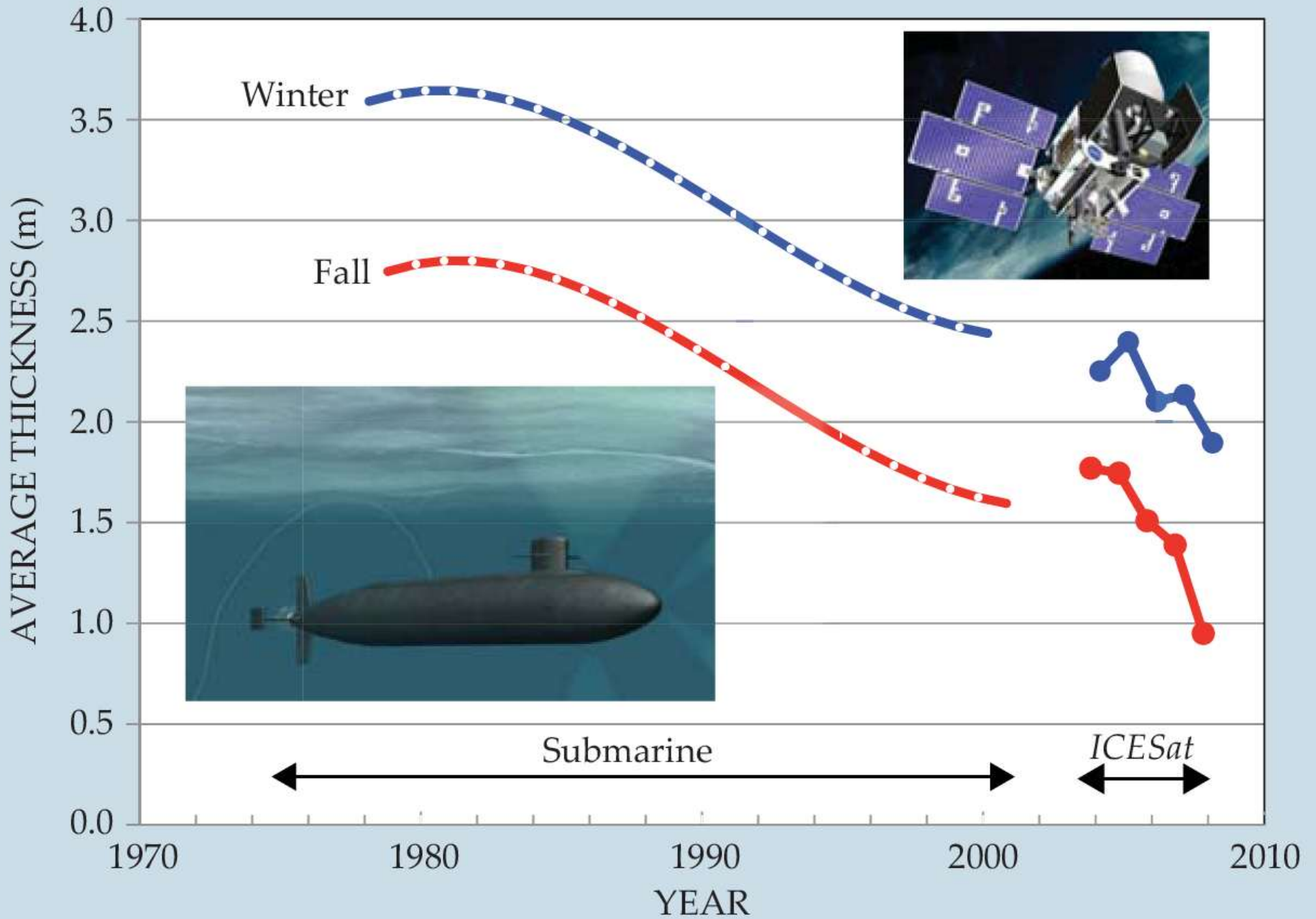
- Arctic Observing Network
- Arctic climate & environmental change
- Arctic mapping & charting
- Safe, secure, and reliable Arctic Marine Transportation System
- Stewardship of the Arctic marine environment & sustainable development of resources
- Resilient & healthy Arctic communities & economies
- Domestic and international policy & partnerships in the Arctic

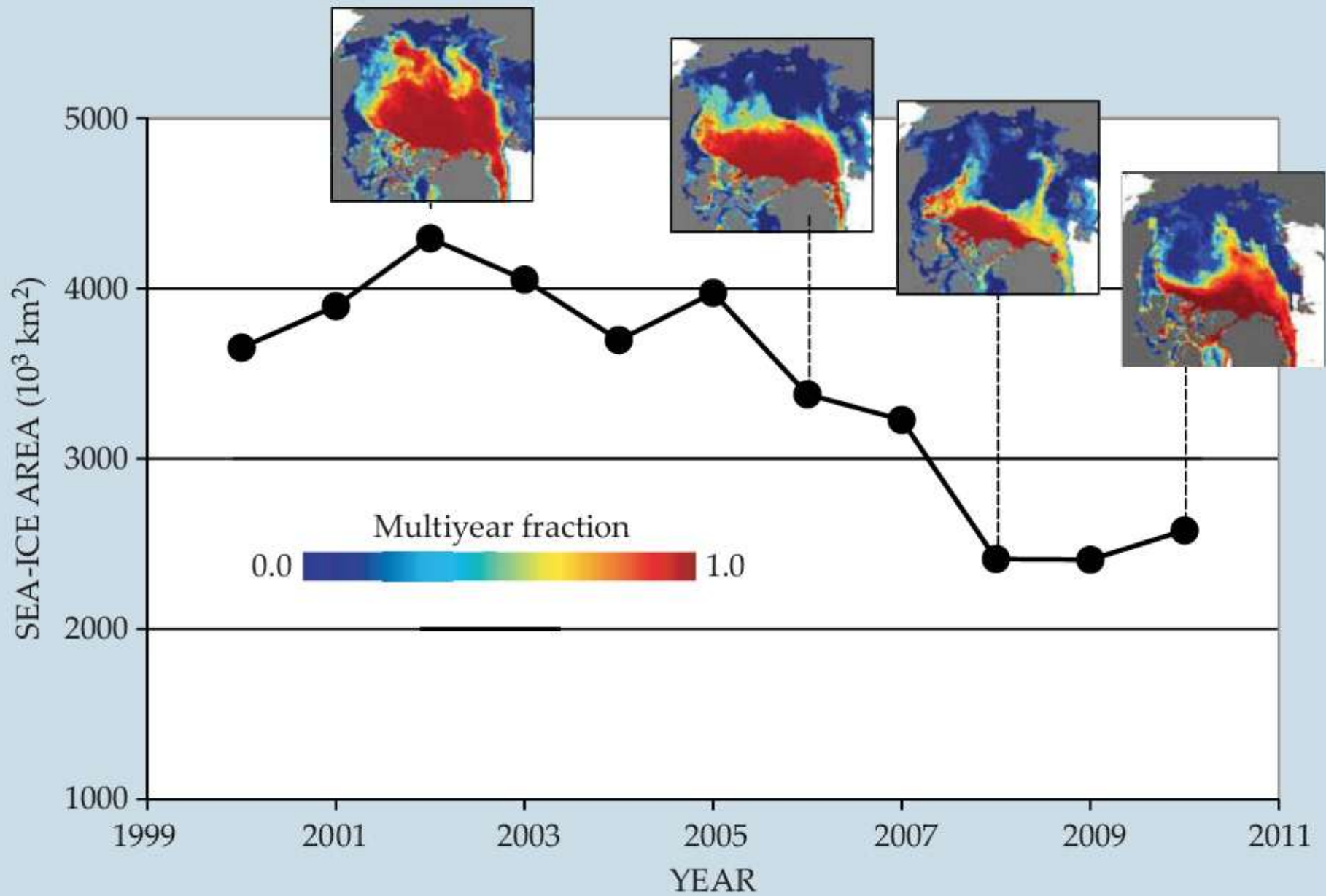


6 actions:

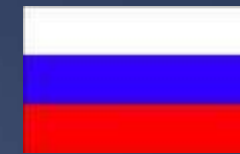
- Observe & forecast Arctic sea ice
- Establish a “Distributed Biological Observatory”
- Improve Arctic environmental response management
- Improve Arctic Communication
- Advance Arctic marine mapping & charting
- Improve coordination on Arctic Ocean issues







Distributed Biological Observatory Sites







The Washington Post



Sunday 62¢ • Tomorrow, Sunday 56¢/20 • METRO, \$10

WEDNESDAY, NOVEMBER 10, 2010

WASHINGTON, DC • 79¢
washingtonpost.com • 79¢

LET'S BE MORE PREPARED THAN EVER.

Shell is dedicated to preventing and preparing for any safety challenges we may face. To support our plans to drill two 30-day exploration wells in the shallow waters off the coast of Alaska in 2011, we have created an unprecedented spill response approach. It includes having offshore, onshore and near-shore response teams and arctic-appropriate equipment ready 24-hours a day, and operational within an hour. It includes the purpose built, ice-class, spill response vessel the Nanuq. And for 2011 we've further improved it by adding a sub-sea containment system; enhancing the response plan and upgrading our blow out preventer. Of course, our goal is to make sure we never have to use it. www.shell.us/alaska

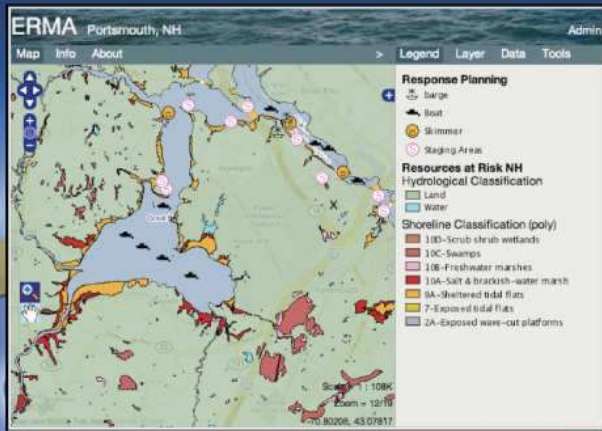
11/10/10
Arctic Drilling



Boom testing (SINTEF 2009 JIP)

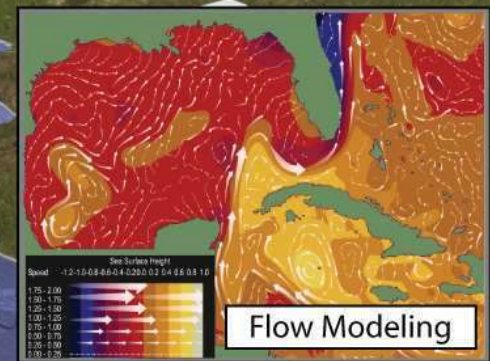


Environmental Response Management Application (ERMA)



Kurt Schwehr
CCOM/JHC

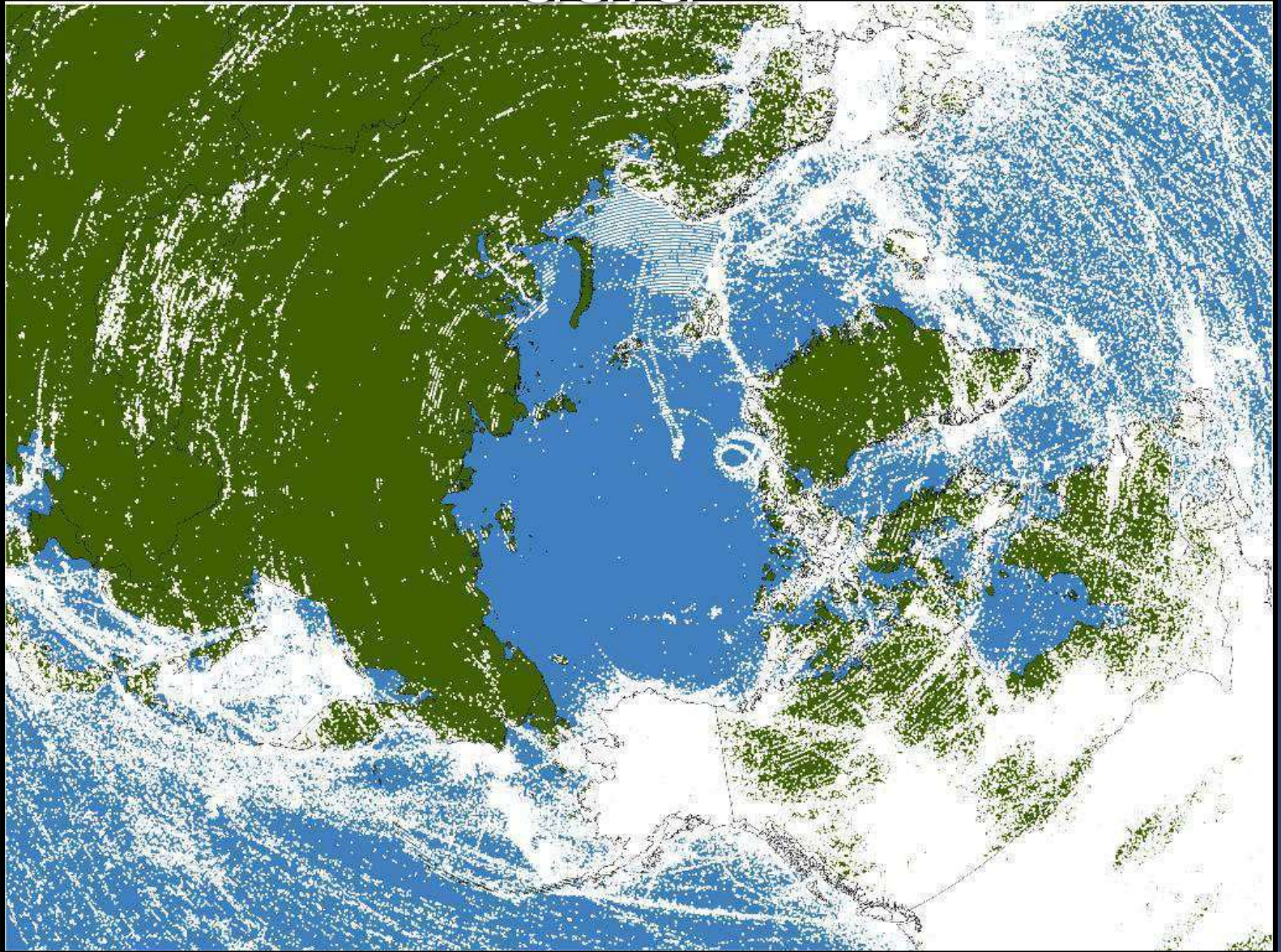
Moored Sensors

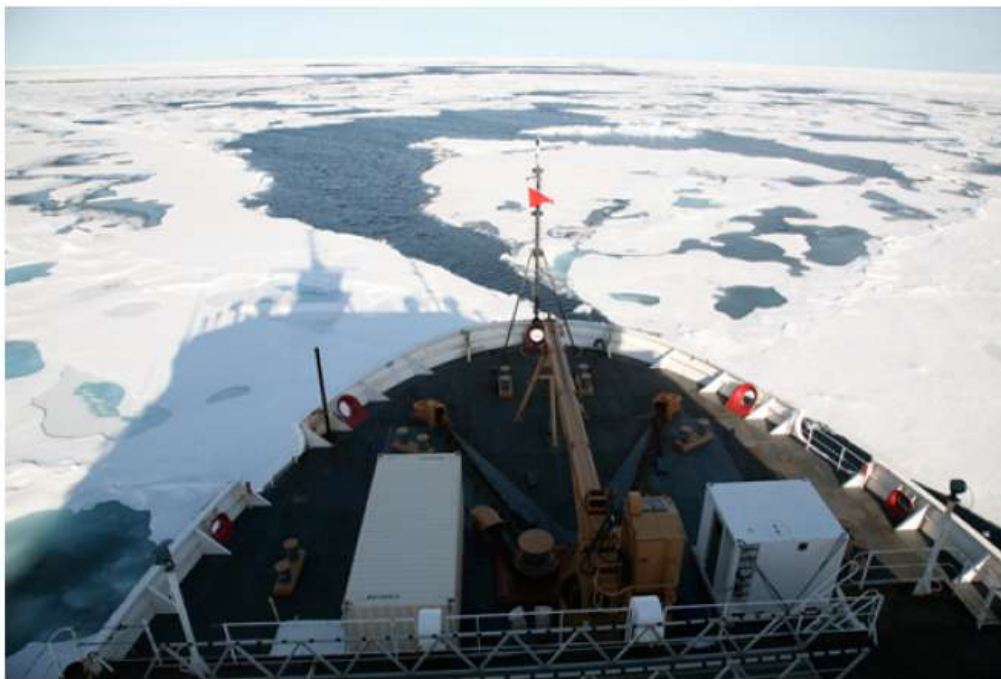


July 2001 voice & data



July 2006 voice & data





Arctic Nautical Charting Plan

**A Plan to Support Sustainable Marine
Transportation in Alaska and the Arctic**

**Office of Coast Survey
Marine Chart Division**

June 1, 2011



CHUKCHI SEA

20000
Point Barrow

Cape Lisburne

Point Hope

40000

200000

KOTZEBUE SOUND

30000

200000

313350
Cape Dezhneva

Chukotskiy Peninsula

100000

100000

Little Diomed Island
1:40,000 Inset

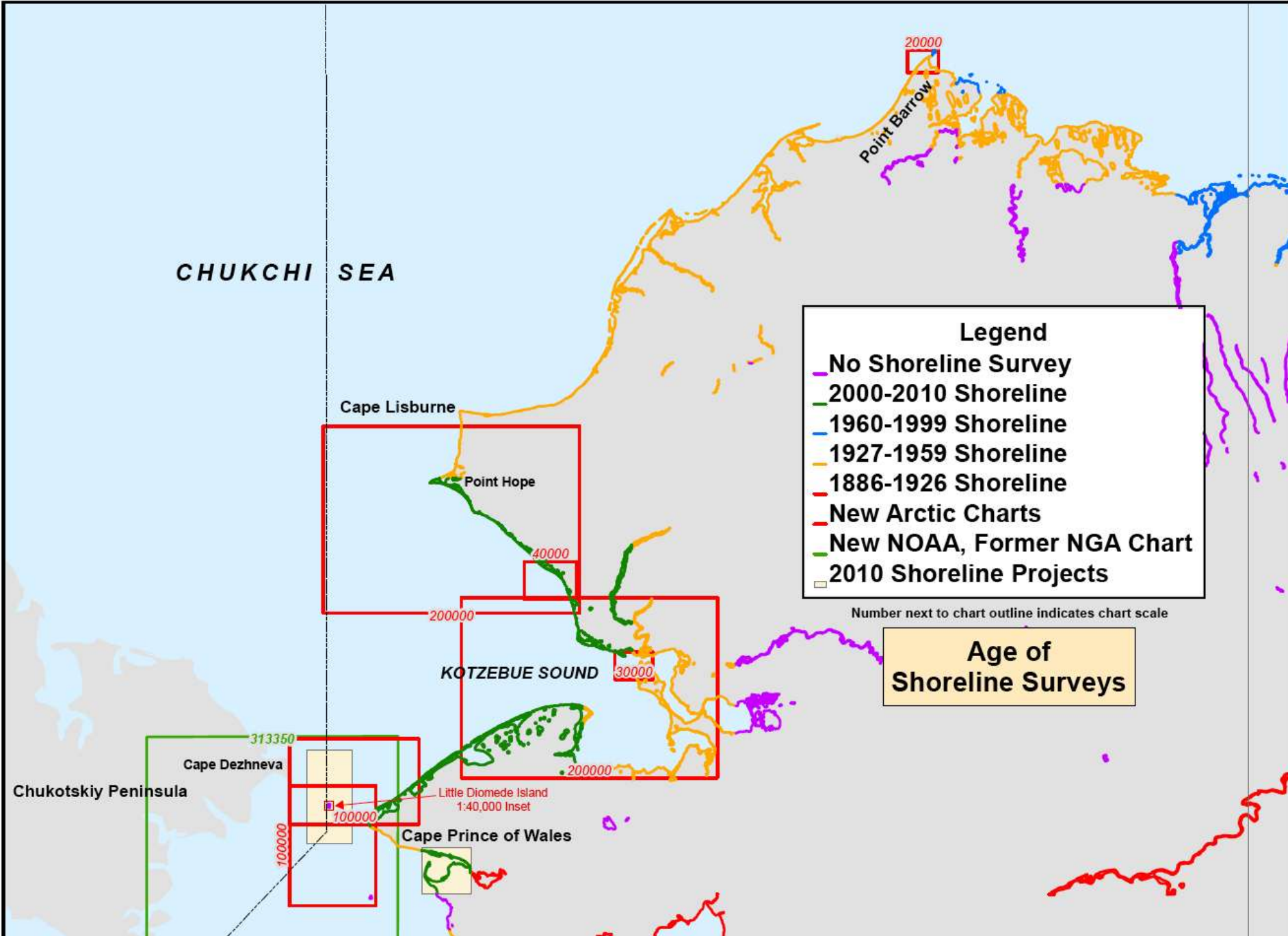
Cape Prince of Wales

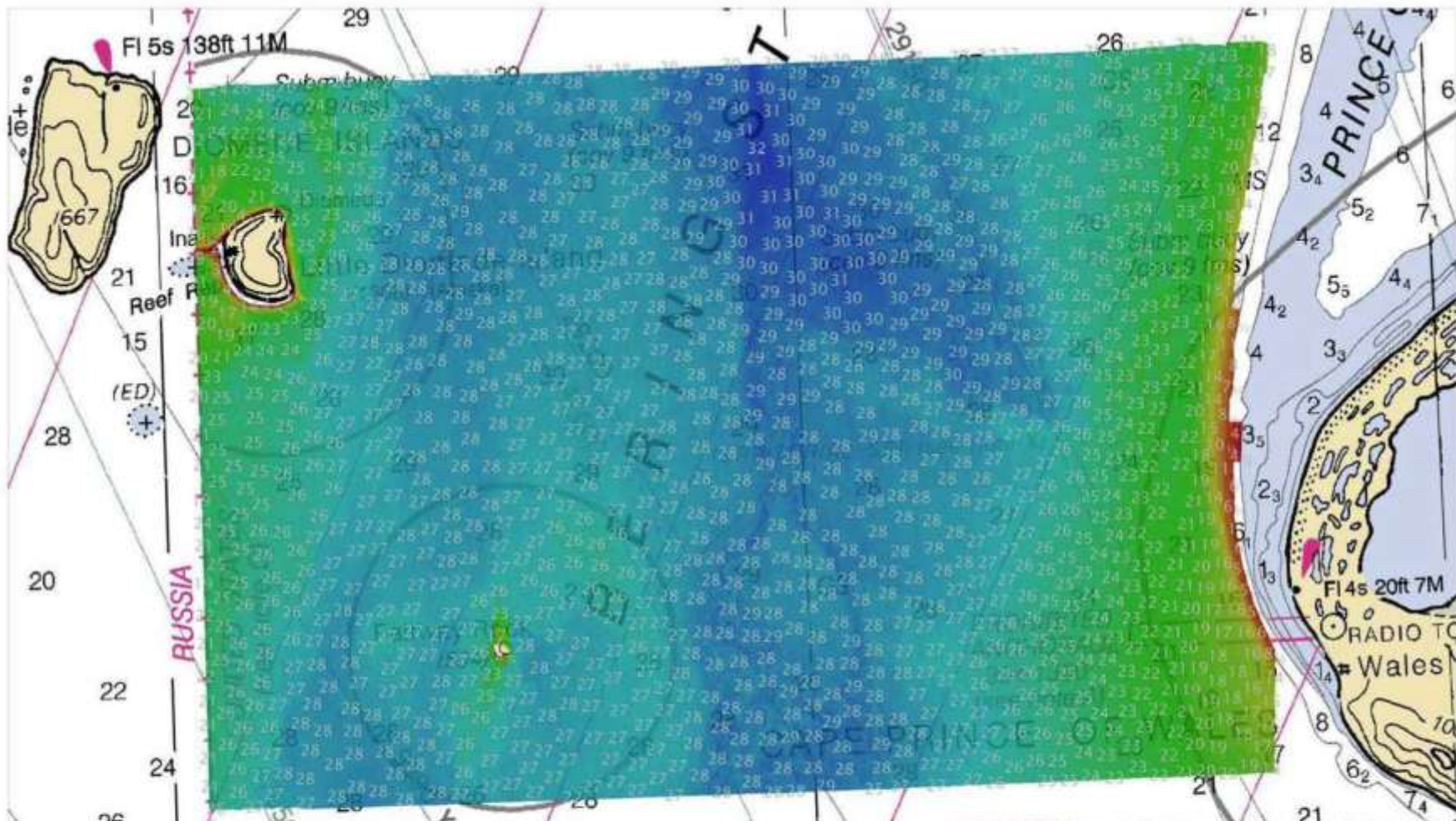
Legend

- No Shoreline Survey
- 2000-2010 Shoreline
- 1960-1999 Shoreline
- 1927-1959 Shoreline
- 1886-1926 Shoreline
- New Arctic Charts
- New NOAA, Former NGA Chart
- 2010 Shoreline Projects

Number next to chart outline indicates chart scale

Age of Shoreline Surveys

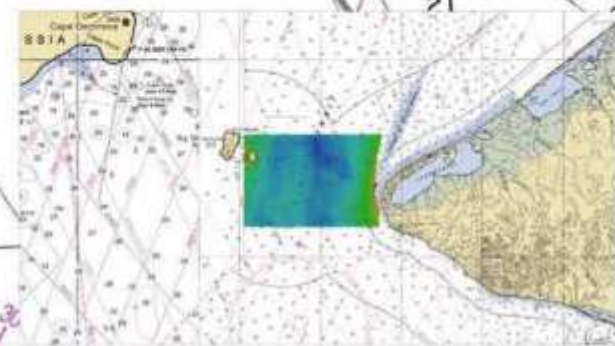




NATIONAL OCEANIC AND ATMOSPHERIC SERVICE

NATIONAL OCEANIC SERVICE	
PROJECT: 0401020102	MISSION: 0401020102
SURVEY: 0401020102	MISSION: 0401020102
CLASS: 0401020102	MISSION: 0401020102
STATUS: 0401020102	MISSION: 0401020102
DATE: 0401020102	MISSION: 0401020102
TIME: 0401020102	MISSION: 0401020102
LOCATION: 0401020102	MISSION: 0401020102
DEPTH: 0401020102	MISSION: 0401020102
WAVE: 0401020102	MISSION: 0401020102
WIND: 0401020102	MISSION: 0401020102
TEMP: 0401020102	MISSION: 0401020102
REFRA: 0401020102	MISSION: 0401020102
CHLOR: 0401020102	MISSION: 0401020102
STRESS: 0401020102	MISSION: 0401020102
WIND: 0401020102	MISSION: 0401020102
TEMP: 0401020102	MISSION: 0401020102
REFRA: 0401020102	MISSION: 0401020102
CHLOR: 0401020102	MISSION: 0401020102
STRESS: 0401020102	MISSION: 0401020102

NOT FOR NAVIGATION







Arctic
Interagency
Policy
Committee
(NSPD/HSPD)

National
Ocean
Policy
(Arctic SAP)

Interagency
Arctic
Research
Policy
Committee

Arctic
Policy
Group

Barrow 6/9/11



CDR Blake McBride, USN

Thank you

