# 3/12 report to the AICC

**John Farrell**
Executive Director
U.S. Arctic Research Commission

## Duties of the Commission:

- Develop Arctic research policy
- Facilitate Arctic research cooperation
- Review federal Arctic research programs
- Data sharing among Arctic research entities
- Cooperate with the State of Alaska
- Improve international scientific cooperation in the Arctic

# Federal Arctic research policy/process


IARPC 5-year plan
1st draft completed
Public review soon


USARC: Set goals; build international cooperation, work with Alaska

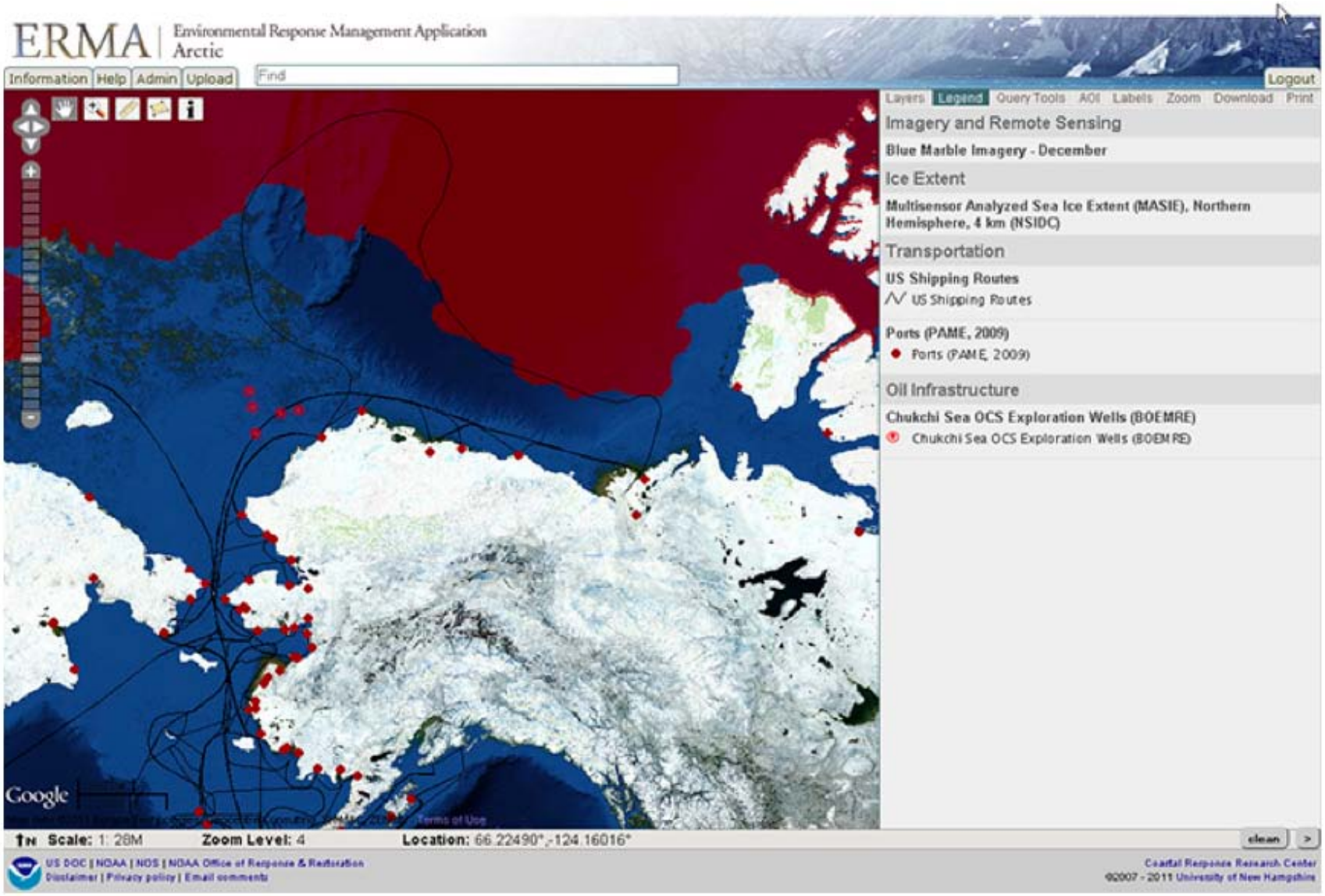
IARPC: adopt plans; coordinate

White House: OMB/OSTP

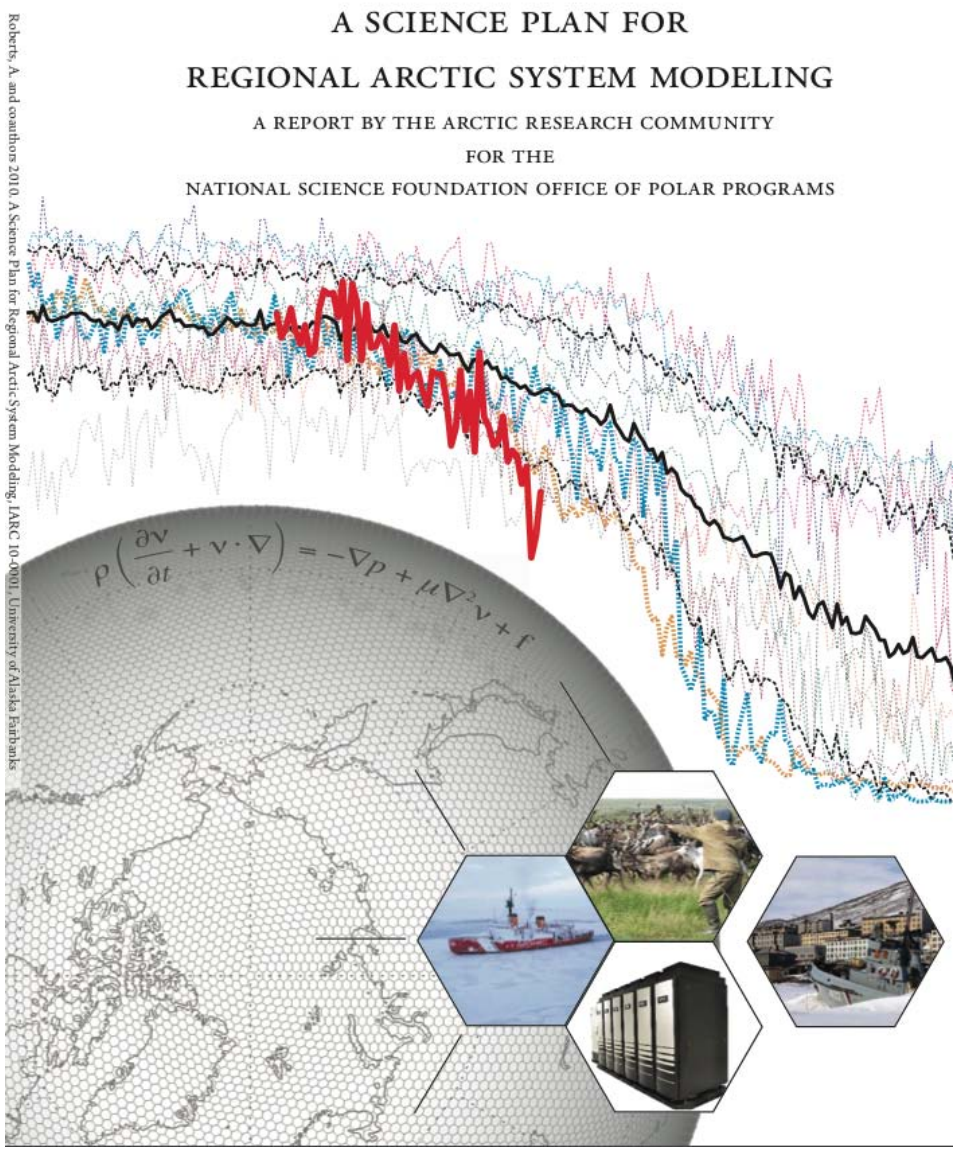
Congress: Authorizers & Appropriators

# Ecosystem-based Management

# Arctic Environmental Response Management Application



# Integration, synthesis, modeling




Roberts, A. and coauthors 2010. A Science Plan for Regional Arctic System Modeling. IARC 10-0001. University of Alaska Fairbanks.

*"Models without data will never get you to reality.*

*Data without models will never get you to the future."*

-RADM David Titley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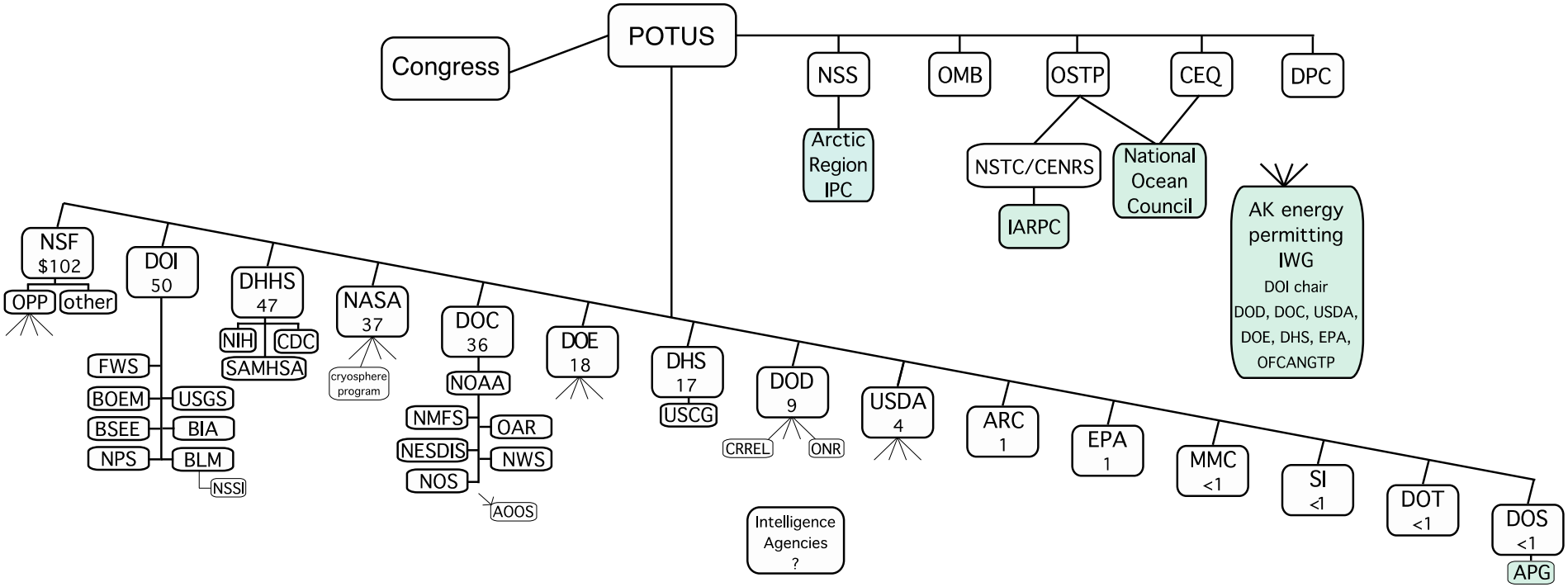
- Media
- Legislative Action
- Future Events

# Arctic research in the Federal government



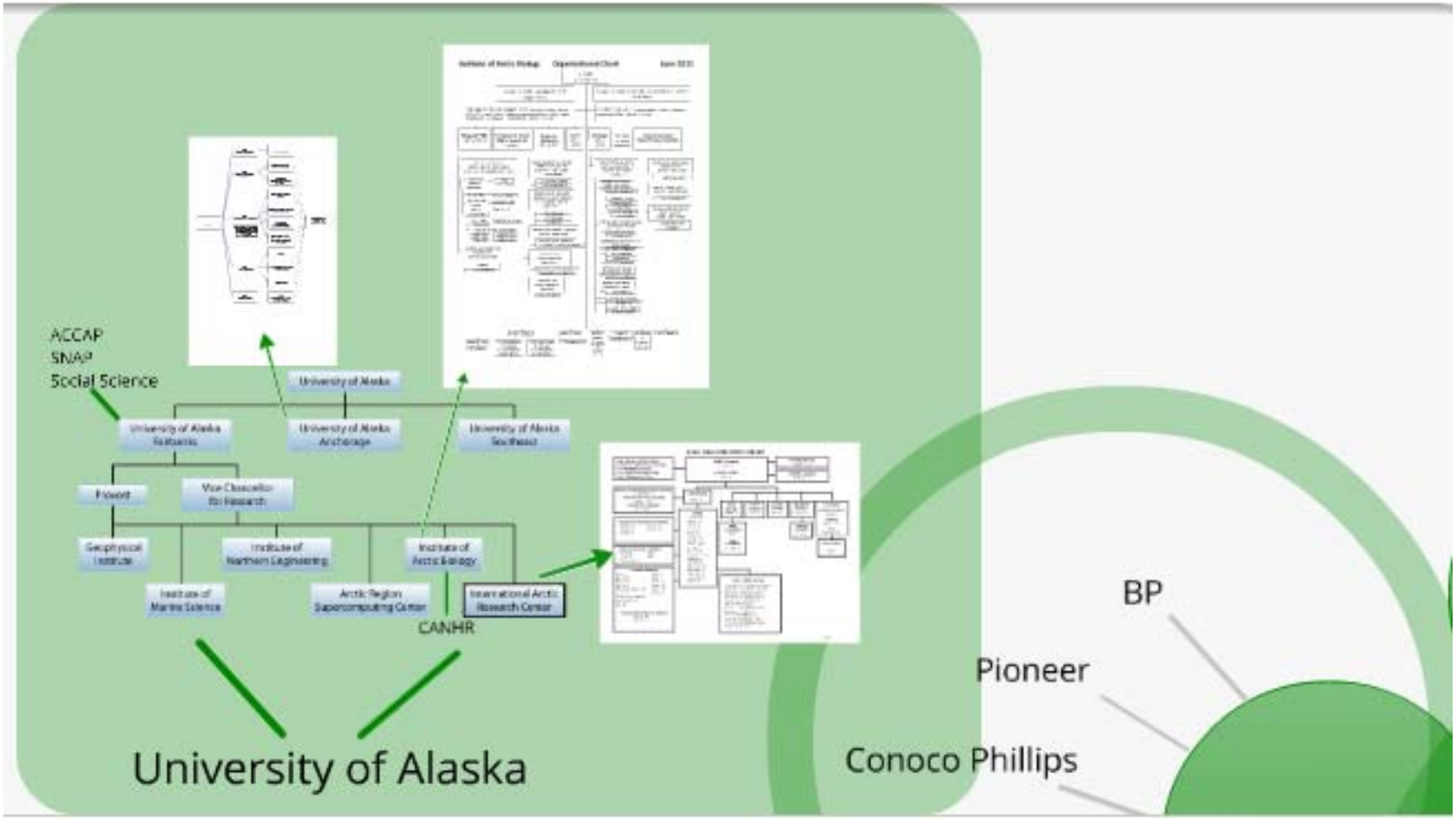

Budget figures, in million $, are for FY05, as self-reported by IARPC members and reported in "*Arctic Research of the US*" vol. 20, published by NSF in 2006

# Arctic Org Chart

organizational charts for Alaskan Arctic Research Groups (USARC)

Cheryl Rosa
15 March 2012


**prezi.com**


ACCAP
SNAP
Social Science
University of Alaska
CANHR
University of Alaska
BP
Pioneer
Conoco Phillips

# Draft National Ocean Policy Implementation Plan

National Ocean Council

***An America whose stewardship ensures that the ocean, our coasts, and the Great Lakes are healthy and resilient, safe and productive, and understood and treasured so as to promote the well-being, prosperity, and security of present and future generations.***

# Changing Conditions in the Arctic

**Address environmental stewardship needs in the Arctic Ocean and adjacent coastal areas in the face of climate-induced and other environmental changes.**

5 “actions”

1. Improve Arctic environmental response management
2. Observe and forecast Arctic sea ice
3. Implement a distributed biological observatory
4. Enhance communication systems in the Arctic
5. Advance Arctic mapping and charting

# Each "action" has specific outcomes, agencies, & milestones

# DBO

## Outcomes

A distributed biological observatory will help experts track and understand changing environmental conditions in the Arctic.

**Agencies:** NOAA, USFWS

## Milestones

- Conduct and coordinate multi-year DBO research cruises with Federal, State, and international partners to document change in distribution, abundance, biomass, species composition, and rates of primary production at two of five stations along the DBO latitudinal gradient. (NOAA; 2012)
- Review pilot DBO activities and plan upcoming cruises in collaboration with international partners via Pacific Arctic Group meetings. (NOAA; 2012)
- Complete pilot phase analysis and prepare international report on distributed biological observatory activities and results to date. (NOAA; 2013)
- Update DBO concept and Implementation Plan for longer-term implementation. (NOAA, USFWS; 2014)
- Execute DBO plans and prepare annual assessments on physical and ecological state of Pacific Arctic marine environment. (NOAA, USFWS; 2015)

# Arctic Collaborative Enviro. (ACE)

## (DOD/OSD funded Arctic observing)

Marty Kress
Von Braun Center for Sci. & Innovation
Mkress@vcsi.org

# ACE overview

- Web-based, open-access, Arctic-focused, environmental decision-support system
- Integrates data from existing remote sensing assets and in situ observations
- Provides monitoring, analysis, and visualization based on earth observation data and modeling
- Enable local, regional, and international cooperation and coordination on long-term environmental planning and near-term actions in response to climatic and environmental changes occurring in the Arctic Region.

- Partners
  - OSD
  - COCOM Sponsors and operational managers: USEUCOM and NORAD-USNORTHCOM
  - Technical Manager: NASA MSFC
  - Transition Manager: Von Braun Center for Science & Innovation (VCSI)
  - Other Partners: NOAA, NIC, USCG, Navy Task Force Climate Change, UAHuntsville, AMRDEC, DLR (German Space Agency), CRREL, ORNL, SAON, Norwegian Polar Institute, AARI (through MOA with NOAA)

# Senate bill

$400M endowment gives $20M/yr to NPRB
With “input and assistance” from USARC

112TH CONGRESS
2D SESSION

# S. 2147

To provide for research, monitoring, and observation of the Arctic Ocean and for other purposes.

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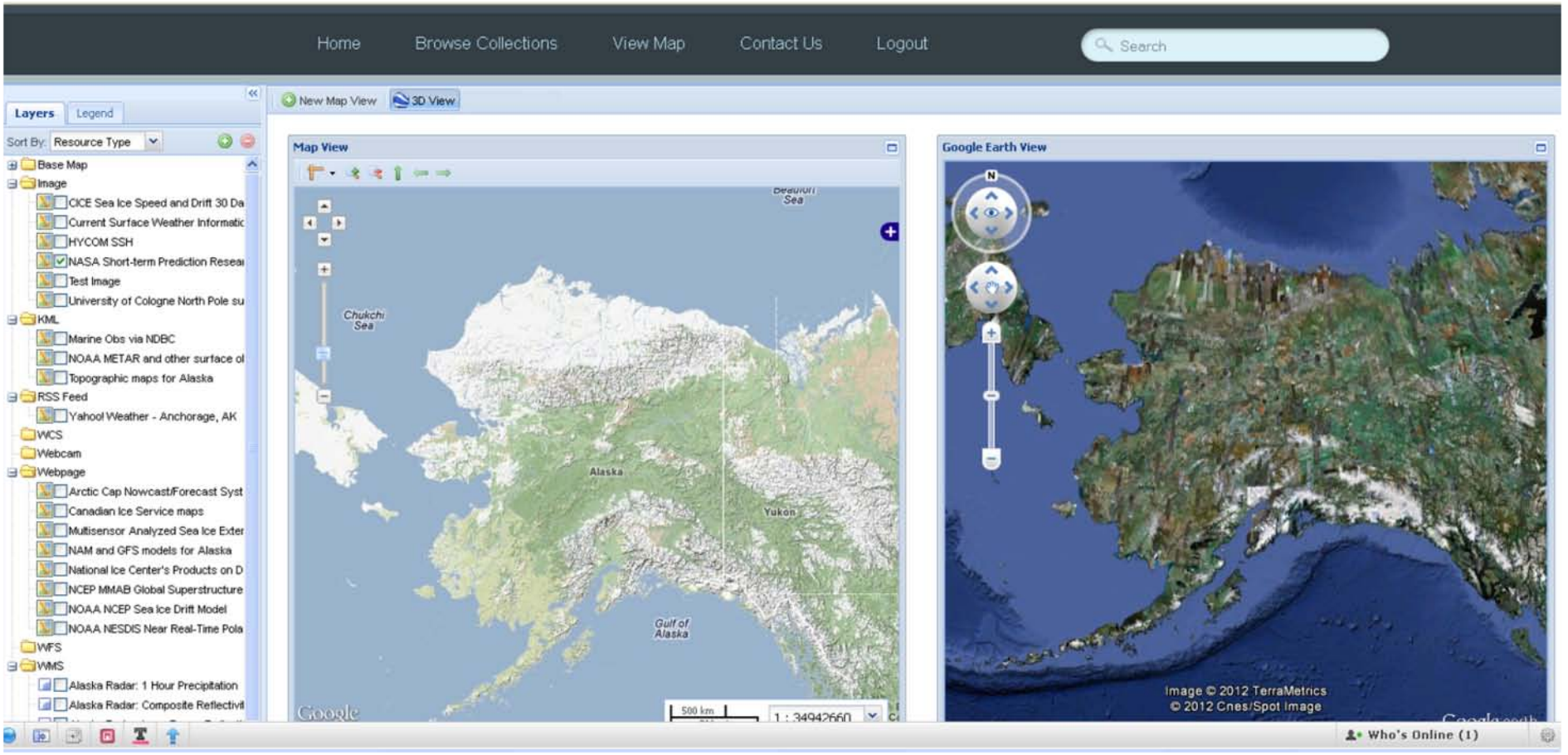
IN THE SENATE OF THE UNITED STATES

MARCH 1, 2012

Mr. BEGICH introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

# Users can choose from extensive Arctic data catalog of open access information




**Arctic data catalog includes web sites, KML/KMZ feeds, OGC compliant data and other geospatial sources that will allow GIS-enabled queries within the ACE application**