

Interagency Arctic Research Policy Committee (IARPC)

Study of Environmental Arctic Change (SEARCH) AGU Town Hall Meeting, 9 December 2013

Brendan Kelly
(Brendan_P_Kelly@ostp.eop.gov)
Assistant Director, Office of Science and Technology Policy
Hajo Eicken
(hajo.eicken@gi.alaska.edu)

Chair, SEARCH Science Steering Committee



SEARCH Objectives

The overall objective of SEARCH is to

Understand the nature, extent and future development of the system-scale change presently seen in the Arctic.

SEARCH is built around three basic elements:

- Observing Change Arctic Observing Network
- Understanding Change Modeling & synthesis
- Responding to Change Linking Arctic system science & stakeholder information needs

www.arcus.org/search/



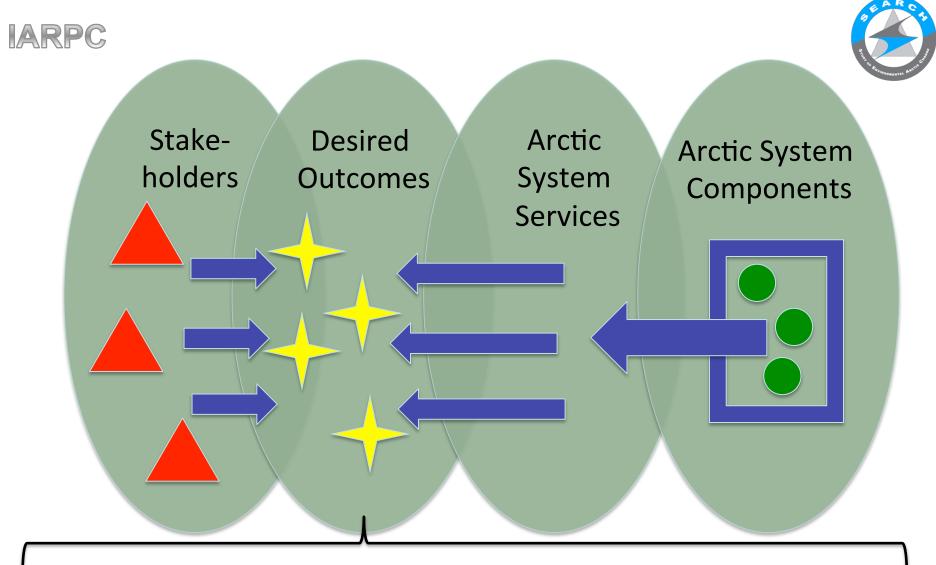
What is SEARCH?

- Collaborative scientific program
- Works with academic and government agency scientists to prioritize, plan, conduct, and synthesize research focused on Arctic environmental change
- Guided by Science Steering Committee and several panels and working groups with broad representation of the research community
- Response of the research community to Arctic change



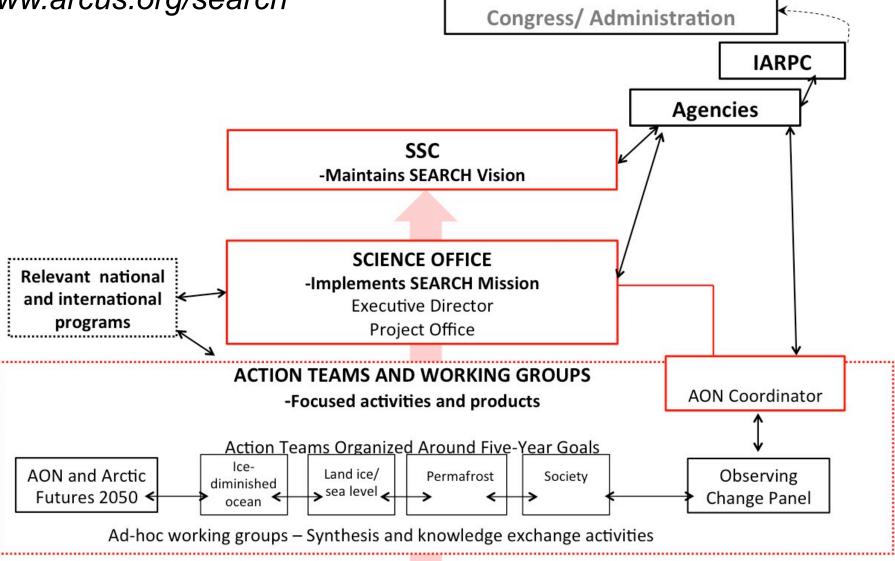
SEARCH 5-Year Goals

- (1) Document and Understand How Degradation of Near-Surface Permafrost Will Affect Arctic and Global Systems (E. Schuur)
- (2) Improve Understanding, Advance Prediction, and Explore Consequences of Changing Arctic Sea Ice (J. Francis & H. Huntington)
- (3) Improve Predictions of Future Land-ice Loss and Impacts on Sea Level (F. Straneo & T. Scambos)
- (4) Analyze Societal and Policy Implications of Arctic Environmental Change



Intersection of agency & scientific community interests IARPC & SEARCH

SEARCH Structure & Activities www.arcus.org/search

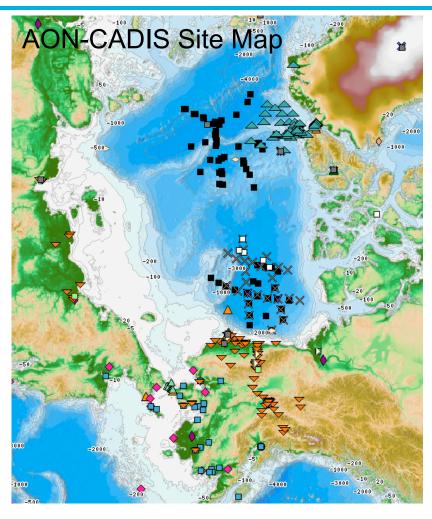


Broader communities - scientific community, stakeholder groups, public, private sector



Arctic Observing Network (AON)





- ~50 NSF-supported AON projects
- State of AON:
 - Disjunct observing activities by scientific community, federal/ state/local agencies and stakeholders
 - Vision for integrated observing system/network emerging
 - How to catalyze cross-sector, crossdisciplinary network?
- Arctic Observing Coordination
 Meeting 2012: IARPC agencies & scientific community
- Arctic Observing Summit 2013 & 2014: ISAC, IASC & SAON

Sea Ice Prediction Network (SIPN)

SIPN builds on the Sea Ice Outlook to develop a collaborative network of scientists and stakeholders to advance research on sea ice prediction and communicate sea ice knowledge and tools.

Project Goals

- Coordinate and evaluate activities to predict sea ice
- Integrate, assess, and guide observations
- Synthesize predictions and observations
- Disseminate predictions and engage key stakeholders

Network Leadership Team

- Julienne Stove, NSIDC (Project PI)
- Cecilia Bitz, U. Washington (ONR PI)
- Edward Blanchard-Wrigglesworth, UW
- Walt Meier, NASA (Co-PI)
- Jim Overland, NOAA/U. Washington
- Muyin Wang, NOAA/U. Washington

- Hajo Eicken, U. AK Fairbanks (Co-PI)
- Jenny Hutchings, Oregon State U.
- Larry Hamilton, U. New Hampshire (Co-PI)
- Helen Wiggins, ARCUS (ARCUS PI)
- Adrienne Tivy, Nat'l Research Council of Canada
- Philip Jones, Los Alamos Nat'l Lab. (DOE PI)
- Elizabeth Hunke, Los Alamos Nat'l Lab

SIPN Town Hall Meeting

Wednesday, 11 Dec. 6:30-7:30 p.m. Marriott Marquis, 4th Floor, Pacific J









