IARPC envisions a prosperous, sustainable, and healthy Arctic understood through innovative and collaborative research coordinated among Federal agencies and domestic and international partners.
USARC + IARPC

Established by Congress in the Arctic Research Policy Act (ARPA) in 1984

Recommends research
Coordinates research
Arctic Research Policy Act (ARPA) forms IARPC and USARC.

1984, 1990

G.W. Bush updates Arctic Region Policy

2009

National Ocean Council (NOC) identifies “Changing Conditions in the Arctic” as a national priority.

2010

Obama assigns IARPC to White House OSTP in a subcommittee of NSTC

IARPC drafts the 5-YR Plan for Arctic Research (2013-17).

2011-2012

White House drafts National Strategy for the Arctic Region (NSAR)

2013

IARPC coordinates with NOC through NSTC working groups.

2014

White House drafts Implementation Plan for the NSAR
IARPC sits in the White House, EOP

- Executive Office of the President (EOP)
  - Advises the President on effects of S&T on domestic and international affairs. Leads interagency efforts to develop and implement sci and tech policies and budgets.

- Office of Science and Technology Policy (OSTP)
  - Coordinates S&T policy across the Federal research and development enterprise

- National Science and Technology Council (NSTC)
  - Assists NSTC to increase the overall productivity of Federal research and development efforts in the areas of environment, natural resources and sustainability.

- Committee on Environment and Natural Resources and Sustainability (CENRs)

- Interagency Arctic Research Policy Committee (IARPC)
  - Includes 11 major entities, e.g.: National Security Staff (NSS) and Office of Management and Budget (OMB)

1 of 12 CENRS committees including USGEO and USGCRP
Where Does IARPC Fit In?

Interrelationships among U.S. interagency Arctic activities.

Security & International
Interagency Policy Committee
National Security Staff; Arctic Policy Group
Department of State
U.S. Extended Continental Shelf Task Force
National Ocean Council/Department of State
Department of Defense
Task Force Climate Change

Energy Development & Transportation
Interagency Working Group on Coordination of Domestic Energy Development and Permitting in AK
Committee on Marine Transportation

Science & Stewardship
National Ocean Council,
Arctic Research Commission
IARPC
Alaska Marine Ecosystem Forum
North Slope Science Initiative,
Alaska Climate Change Round Table
The National Strategy for the Arctic Region
Three Lines of Effort

1. Advance U.S. Security Interests
   • Evolve Arctic infrastructure and strategic capabilities
   • Provide for future U.S. energy security

2. Pursue Responsible Arctic Region Stewardship
   • Protect the Arctic environment, conserve its natural resources
   • Balance economic development, environmental protection, cultural values in management
   • Better understand the Arctic through scientific research and traditional knowledge

3. Strengthen International Cooperation
   • Promote shared prosperity, protect environment, enhance security
   • Work internationally to advance U.S. interests in the Arctic region
Who’s Involved in IARPC?

IARPC is comprised of fourteen Federal entities, each with research responsibilities in the Arctic and represented by their respective IARPC Principals:

- Department of Agriculture
- Department of Commerce
- Department of Defense
- Department of Energy
- Department of Health and Human Services
- Department of Homeland Security (U.S. Coast Guard)
- Department of Interior
- Department of State
- Department of Transportation
- Environmental Protection Agency
- Marine Mammal Commission
- National Aeronautics and Space Administration
- National Science Foundation (chair)
- Smithsonian Institution

IARPC also cooperates with the State of Alaska, indigenous organizations, academic institutions, non-governmental organizations, the Arctic Council, and international partners.
A Visualization of Federal Arctic Research Coordination
Who’s talking to Whom?

- DHS
- DOD
- DOE
- DOS
- DOT
- EPA
- NSF
- DOI
- OSTP
- USARC
- DOC
- NASA
- SI
- MMC
- USDA
- HHS

Ellipse size:
# participants
A Visualization of Federal Arctic Research Coordination
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- DOC

**Ellipse size:**
- # participants

**Line weight:**
- 1-4
- 5-8
- 9+

Legend:
- 1-4
- 5-8
- 9+
A Visualization of Federal Arctic Research Coordination
Who’s talking to Whom?

KEY:
- Ellipse size proportional to # participants
- Line weight proportional to # of shared teams, coded:
  - 1-4
  - 5-8
  - 9+
How Does IAPRC Function?

IARPC Principals convene annually
IARPC Staff Group convenes monthly
(most) Collaboration Teams convene monthly
Examples of IARPC Publications & Contributions to Interagency Efforts
IARPC’s Current Key Activity, Implementing IARPC Arctic Research Plan: FY2013 – 2017

Research themes emphasize those activities that would benefit from an interagency approach –

1. Sea ice and marine ecosystems
2. Terrestrial ice and ecosystems
3. Atmosphere
4. Observing systems
5. Regional climate models
6. Sustaining communities
7. Human health
**From Themes to Collaboration Teams**

*Teams meet monthly to communicate & make progress towards 145 milestones*

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<tr>
<th>Collaboration Teams</th>
<th>Chair(s), Agency</th>
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<td>Sea Ice (SICT)**</td>
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**Jointly Implemented w/ National Ocean Council**
### Who’s Participating in Implementation?

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Building collaborations to advance Arctic research
IARPC Interagency Arctic Research Policy Committee (IARPC) is a U.S. Agency led effort to advance Arctic research in cooperation with non-federal partners.

Latest news

“Why the Arctic Matters” Outreach Resource from the U.S. Arctic Research Commission

Admiral Papp on the U.S. Chairmanship of the Arctic Council in EOS

Collaboration teams
IARPC’s Arctic research plan is supported by 12 collaboration teams including federal and non-federal partners.

- Arctic communities
- Arctic data
- Arctic observing systems
- Atmosphere
- chuckchi & beaufort seas
- Distributed biological observatory
- Ecosystem
- Human health
- Modeling
- Sea ice

NSF Arctic-FROST Research Network: First year in Review

The National Science Foundation (NSF) recently awarded a five-year Research Coordination Network (RCN) Science, Engineering and Education for Sustainability (SEES) grant to the University of Minnesota. The project entitled “RCN-SEES: Arctic FROST: Arctic, Framed: Offshore, Risk, Observations, Teacher, Students” is being led by the University of Minnesota.

- Distributed Biological Observatory
- Ecosystem
- Human health
- Modeling
- Sea ice

Upcoming events

- Dec 3-5: ACEP Alaska Climate Webinar Series: Enabling Scientific and Technological Improvements to Meet Climate Change Service Requirements in Alaska – An Arctic Test Bed
- Dec 3: Meeting of the IARPC Collaboration Team to deliberate the USECIP

Post update
- Upload document
- Schedule event
- Post want/have

More upcoming events

Post events

- Dec 5: Atmosphere Collaboration Team Meeting
- Dec 5: Marine Collaboration Team Meeting
- Dec 5: Terrestrial Collaboration Team Meeting
Sea Ice Collaboration Team Meeting with Presentation on MIZOPEX UAS Project by Jim Maslanik

Mon, Oct 27, 2014, 10am - 11am Pacific

The Sea Ice Collaboration Team met on Monday, October 27th at 1pm EDT. The webinar included a presentation on the MIZOPEX UAS Project by Jim Maslanik and another on ARISE by William Smith.

Related by topic

- Nov 12  Chukchi & Beaufort Collaboration Team Meeting
  12-1 pm Pacific
- Nov 13  Glaciers & Fjords Collaboration Team Meeting
  with Presentation by Sophie Nowicki on Ice Sheet Model Intercomparisons
  8-9 am Pacific
- Nov 13  Wildfires Collaboration Team Meeting
  11 am-12 pm Pacific

All related events »
Recent Collaboration Team (CT) Achievements

Chukchi & Beaufort Seas CT published report *Developing a Conceptual Model of the Arctic Marine Ecosystem* detailing results of 2013 workshop and completing a research framework for the region.

Distributed Biological Observation CT produced satellite data products, online data workspace, and draft of a data sharing protocol.

Sea Ice CT coordinated intensive observations and process studies to improve understanding of sea ice and improve forecasting capabilities.

Terrestrial Ecosystems CT created a standardized syntax for metadata and integrated it into Alaska Data Integration Working Group tools.
IARPC is considering possible next steps, such as:

- Update to IARPC 5-year plan (2015-2016)
- Science to support the Arctic Council during the US chairmanship
- Science to support the implementation for US Policy and Strategy
- Science and technology to support healthy northern communities & sustainable development
Where can I go for more information?

The IARPC Collaborations Website:  
www.iarpccollaborations.org

IARPC lead within OSTP:  
Simon Stephenson Simon_N_Stephenson@ostp.eop.gov

IARPC Secretariat:  
Sara Bowden, bowden@arcus.org