

Brief Overview of Arctic Research Policy Committee (IARPC)

**Arctic Research Day
UA Anchorage
March 24, 2017**

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NSF Office of Polar Programs**

What is IARPC?

Arctic Research Policy Act of 1984

98 STAT. 1242 PUBLIC LAW 98-373—JULY 31, 1984

Public Law 98-373
98th Congress
An Act

To provide for a comprehensive national policy dealing with national research needs and objectives in the Arctic, for a National Critical Materials Council, for development of a continuing and comprehensive national materials policy, for programs necessary to carry out that policy, including Federal programs of advanced materials research and technology, and for innovation in basic materials industries, and for other purposes.

July 31, 1984 [S. 373]

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

Arctic Research and Policy Act of 1984.

15 USC 4101 note.

15 USC 4101.

TITLE I—ARCTIC RESEARCH AND POLICY

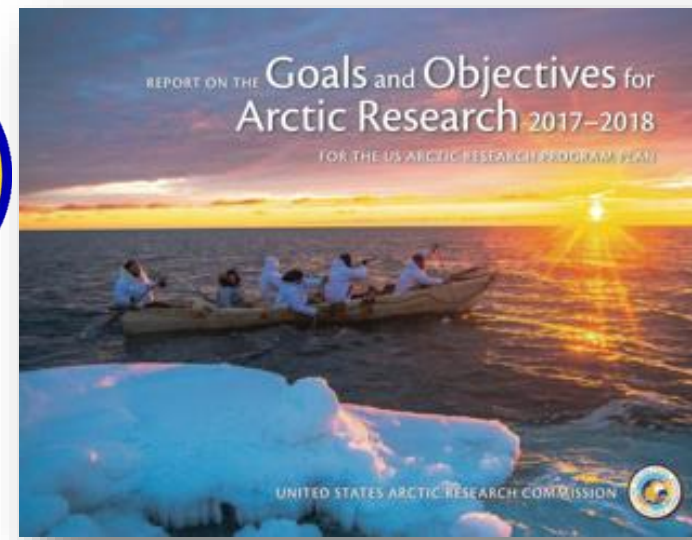
SHORT TITLE

SEC. 101. This title may be cited as the "Arctic Research and Policy Act of 1984".

FINDINGS AND PURPOSES

SEC. 102. (a) The Congress finds and declares that—
(1) the Arctic, onshore and offshore, contains vital energy resources that can reduce the Nation's dependence on foreign

USARC sets goals and objectives




IARPC develops and implements a research plan



ARCTIC RESEARCH PLAN
FY2017-2021

PRODUCT OF THE
Interagency Arctic Research Policy Committee
OF THE NATIONAL SCIENCE AND TECHNOLOGY COUNCIL



December 2016

Who's Involved in IARPC?

Fourteen Federal entities, each with research responsibilities in the Arctic, comprise IARPC. They are represented on IARPC 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 (Director is chair)**
- Smithsonian Institution

IARPC also cooperates with the State of Alaska, indigenous organizations, academic institutions, non-governmental organizations, the Arctic Council, and international partners.

USARC and IARPC work in tandem



USARC's Presidentially appointed commissioners recommend research to the Federal government



IARPC coordinates Arctic research among 14 Federal agencies and facilitates cooperation with partner organizations

Who Contributed to the Plan?



ARCTIC RESEARCH PLAN:
FY2017-2021



Public

via the
Federal
Register



IARPC
Principals +
Staff Group

Plan Organization

Research Goals (9)

Broad topics where an interagency approach can accelerate progress

Research Objectives (34)

Specific challenge areas that address the research goal

Performance Elements (123)

Tasks with concrete, measurable outcomes that demonstrate progress toward Research Objectives

Research Goals

1. Enhance understanding of **health determinants** and improve the **well-being** of Arctic residents;
2. Advance process and system understanding of the changing Arctic **atmospheric composition and dynamics** and the resulting changes to surface energy budgets;
3. Enhance understanding and improve predictions of the changing Arctic **sea ice cover**;
4. Increase understanding of the structure and function of Arctic **marine ecosystems** and their role in the climate system and advance predictive capabilities;
5. Understand and project the mass balance of **glaciers, ice caps, and the Greenland Ice Sheet**, and their consequences for sea level rise

Research Goals

6. Advance understanding of processes controlling **permafrost** dynamics and the impacts on ecosystems, infrastructure, and climate feedbacks;
7. Advance an integrated, landscape-scale understanding of Arctic **terrestrial and freshwater ecosystems** and the potential for future change;
8. Strengthen **coastal community resilience** and advance stewardship of coastal natural and cultural resources by engaging in research related to the interconnections of people, natural and built environments;
9. Enhance frameworks for **environmental intelligence** gathering, interpretation, and application toward decision support.

Agency Commitments

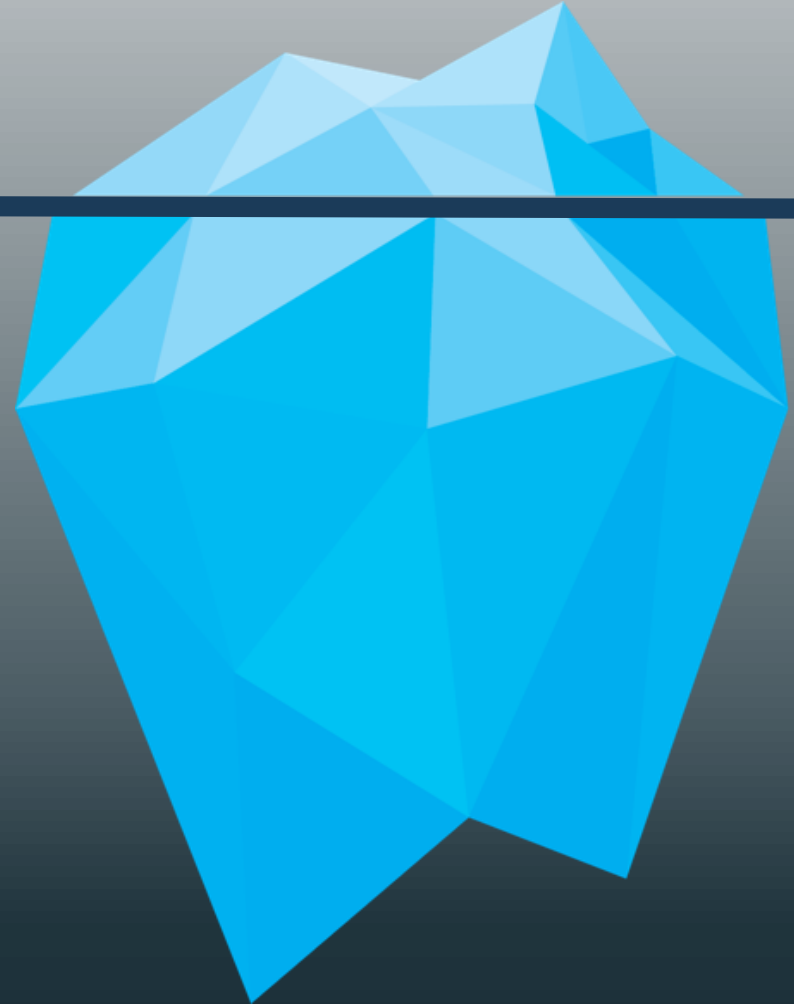
Agency	Health							Atmosphere			Sea Ice			Marine Ecosystems			Glaciers & Sea Level		Permafrost				Terrestrial			Coastal				Environmental Intelligence									
	1.1	1.2	1.3	1.4	1.5	1.6	1.7	2.1	2.2	2.3	3.1	3.2	3.3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	6.3	6.4	7.1	7.2	7.3	8.1	8.2	8.3	8.4	9.1	9.2	9.3	9.4	9.5					
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How is the Plan implemented?

IARPC

Federal only

Principals and staff representing 14 Federal agencies



How is the Plan implemented?

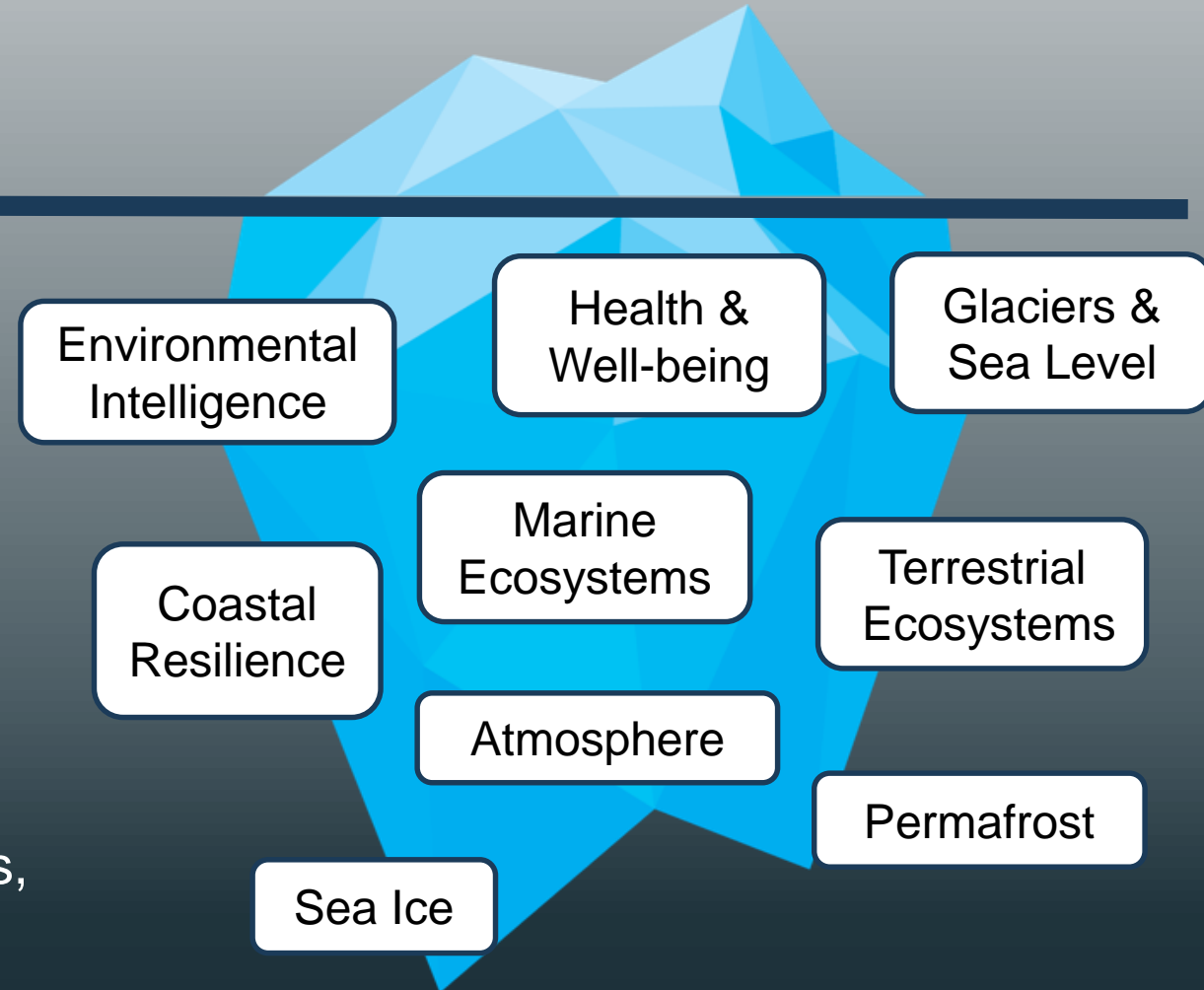
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IARPC
COLLABORATIONS

Federal & non-Federal
Researchers and stakeholders from academia, NGOs,
industry, state, Indigenous and international
organizations.



iarpccollaborations.org

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What's new

Your topics Filters Sort



Dr. Allen Pope appointed new IASC Executive Secretary

IASC's new Executive Secretary @Allen Pope Following a competitive hiring process with various highly qualified candidates, the International Arctic Science Committee (IASC) is happy to...

Sep 30, 2016 by Larry Hinzman - Topics International Arctic Science Committee (IASC), IASC



A needs assessment and work plan development for coastal change outreach on the Beaufort Sea coast, Alaska

A needs assessment and work plan development for coastal change outreach on the Beaufort Sea coast, Alaska Contact: Maureen Correll (Bird Conservancy of the Rockies, Fort Collins, Colorado,...

Sep 29, 2016 by Becci Anderson - Topics Arctic Communities, Outreach, coastal, Alaska Native Communities, Milestone 3.2.3.a



Publication in Biology Letters: Is it 'boom times' for baleen whales in the Pacific Arctic region?

Biology Letters recently published my short Opinion paper that may be of interest to DBOCT and CBCT colleagues . Is it 'boom times' for baleen whales in the Pacific Arctic...

Sep 28, 2016 by Sue Moore - Topics Publication, whales, baleen whales

Upcoming events

Oct 4 **Cancelled: Arctic Research Support & Logistics Working Group Meeting**
1-2 pm Eastern Daylight Time

Oct 4 **Distributed Biological Observatory Collaboration Team Meeting**
2-3 pm Eastern Daylight Time

Oct 7-12 **Inuit Piusitukangit - 20th Biennial Inuit Studies Conference**

[More upcoming events »](#)
[Upcoming IARPC webinars »](#)

Webinar archive



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

Your teams

[Arctic Communities](#)[Arctic Data](#)[Arctic Observing Systems](#)[Arctic Research Support & Logistics](#)[Atmosphere](#)[Chukchi & Beaufort Seas](#)

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December 2016

Read the Plan

Join a Team

Accelerate the pace of
Arctic research

iarppcollaborations.org