

Interagency  
Arctic  
Research  
Policy  
Committee



*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



Recommends  
research



Coordinates  
research

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

# IARPC Legislative & Policy History

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

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

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

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

1984, 1990

2010

2013

2009

2011-2012

2014

G.W. Bush updates Arctic Region Policy

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

IARPC coordinates with NOC through NSTC working groups.

White House drafts Implementation Plan for the NSAR

# IARPC sits in the White House, EOP

Executive Office of the President (EOP)

Includes 11 major entities, e.g.: National Security Staff (NSS) and Office of Management and Budget (OMB)

Office of Science and Technology Policy (OSTP)

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.

National Science and Technology Council (NSTC)

Coordinates S&T policy across the Federal research and development enterprise

Committee on Environment and Natural Resources and Sustainability (CENRS)

Assists NSTC to increase the overall productivity of Federal research and development efforts in the areas of environment, natural resources and sustainability.

Interagency Arctic Research Policy Committee (IARPC)

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?

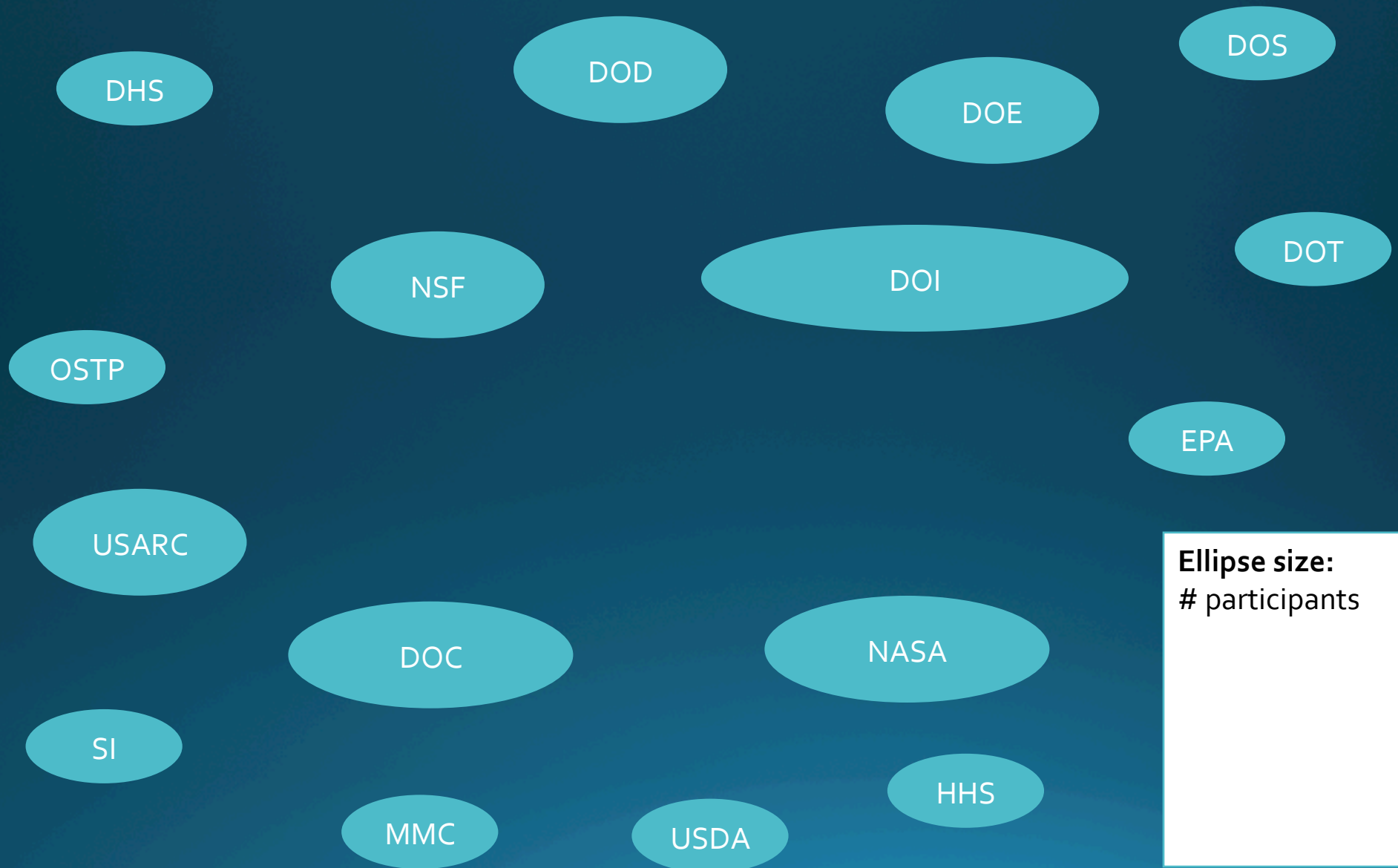
*IARPC is comprised of fourteen Federal entities, each with research responsibilities in the Arctic and represented by their respective **IARPC Principals**:*

- 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

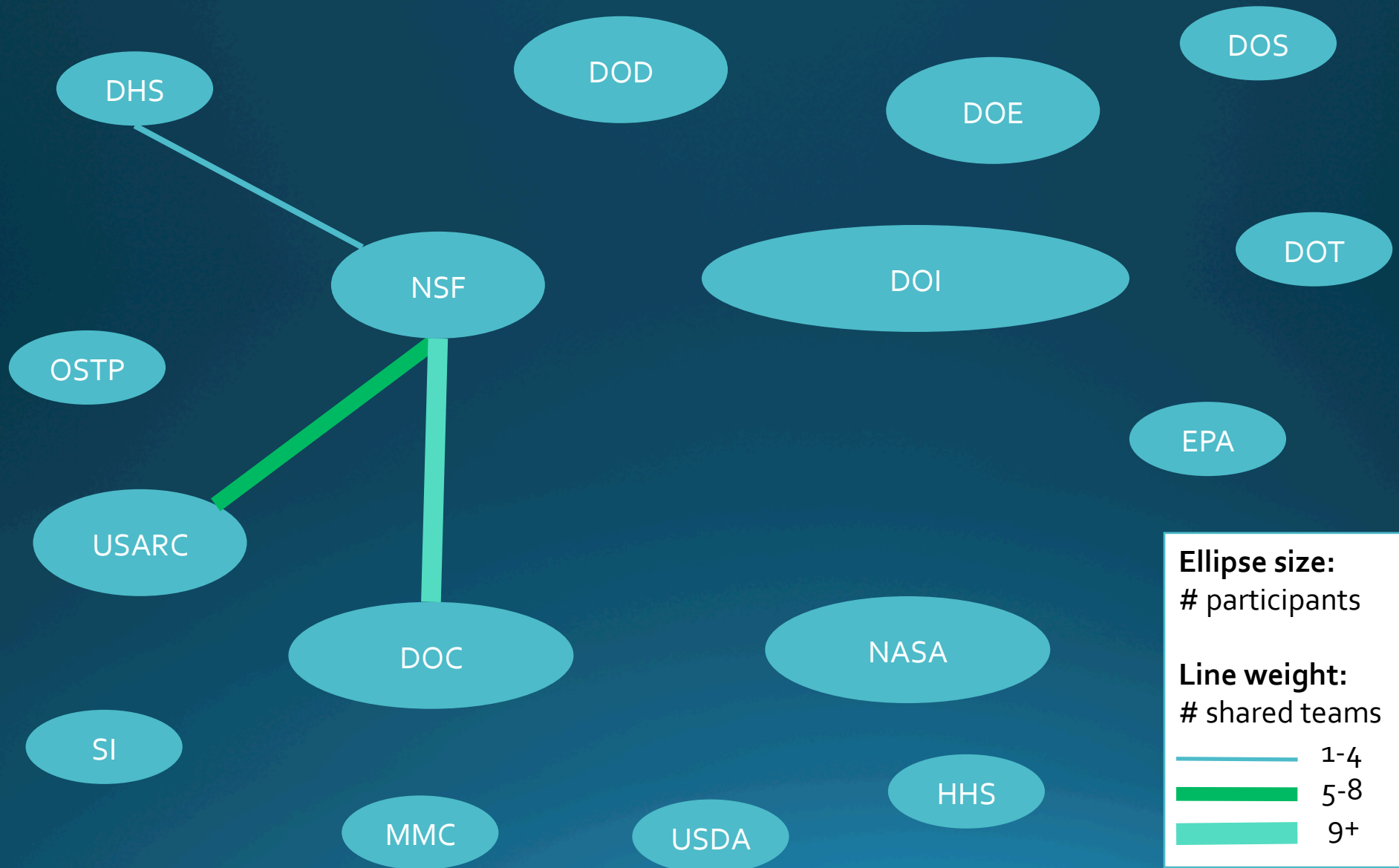
## Who's talking to Whom?





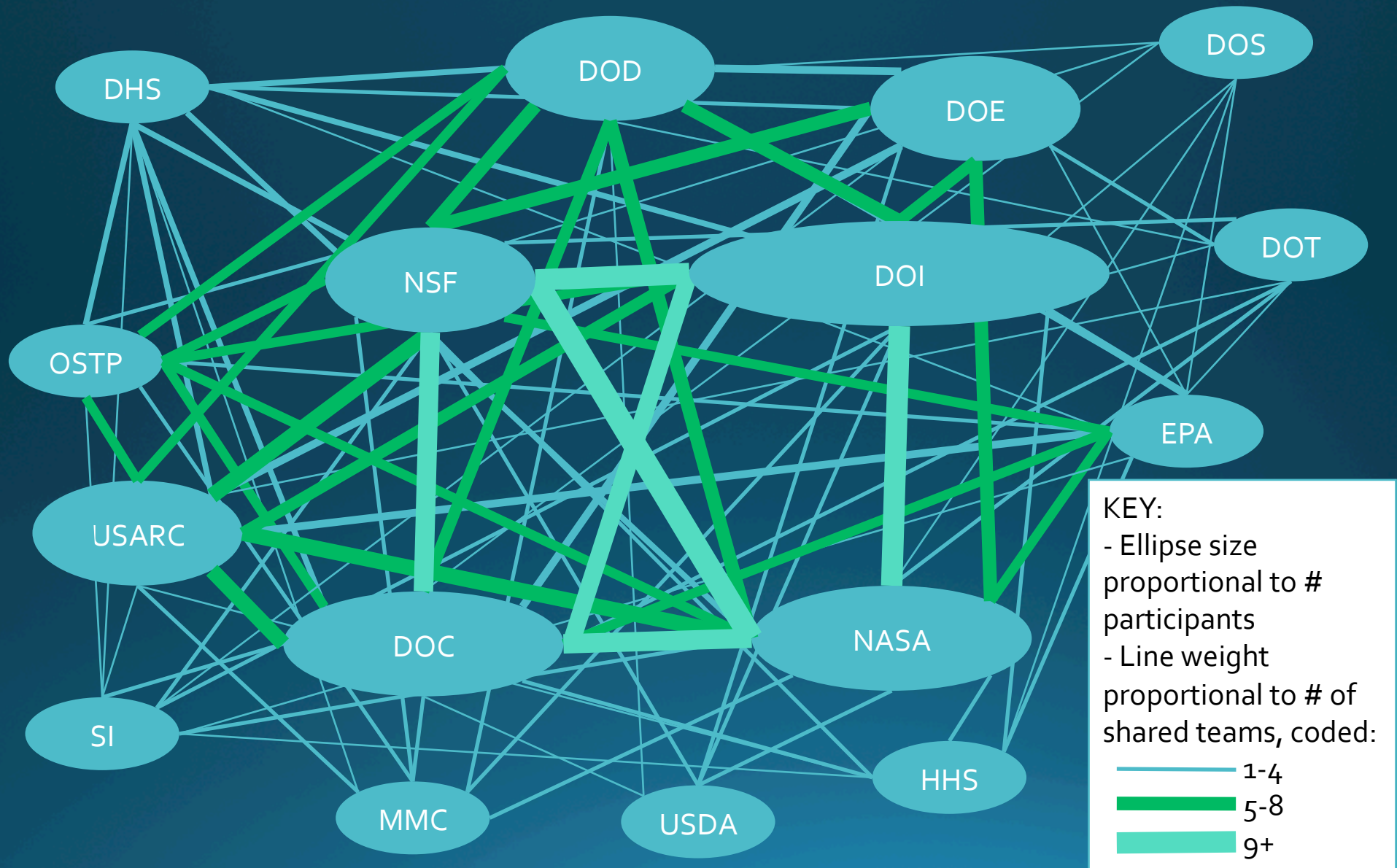
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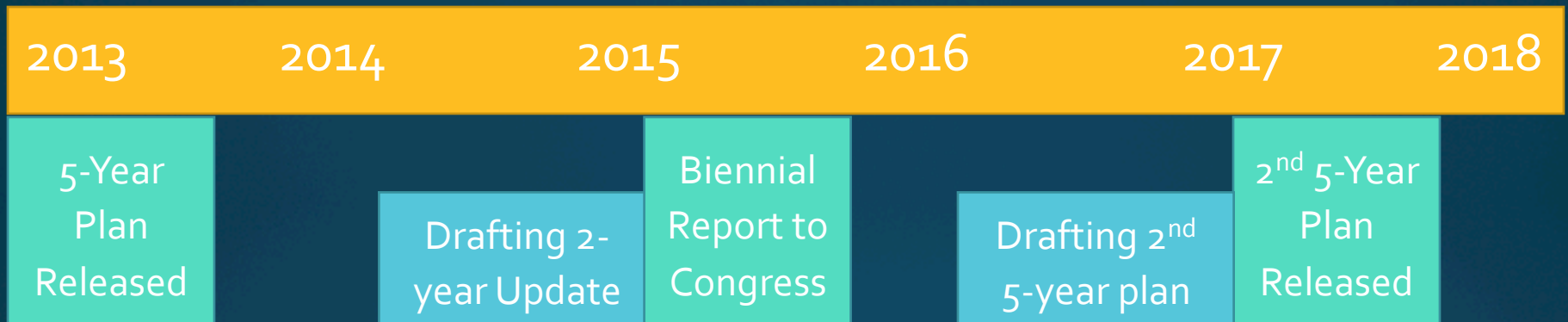


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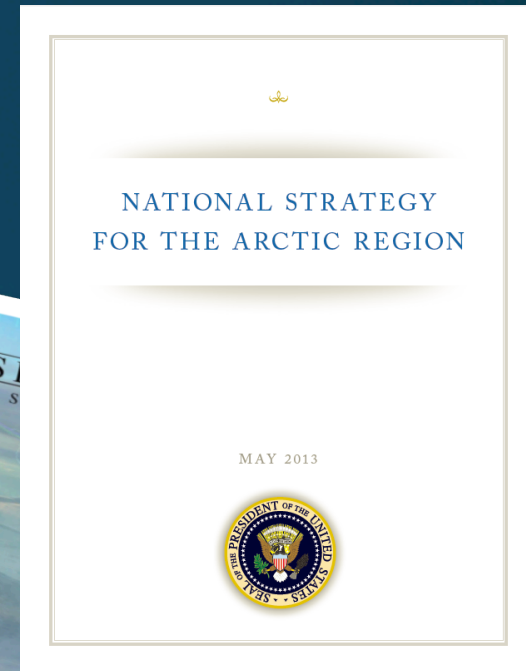


# How Does IAPRC Function?



*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
4. Regional climate models
5. Sustaining communities
7. Human health



# From Themes to Collaboration Teams

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

| Collaboration Teams                          | Chair(s), Agency                                |
|--|---|
| Sea Ice (SICT)**                             | Martin Jeffries, DOD                            |
| Distributed Biological Observatory (DBOCT)** | Sue Moore, NOAA; Jackie Grebmeir, U of MD       |
| Chukchi Beaufort (CBCT)                      | Guillermo Auad, DOI; Danielle Dickson NPRB      |
| Glaciers and Fjords (GFCT)                   | Bill Wiseman, NSF; Hedy Edmonds, NSF            |
| Terrestrial Ecosystems (TECT)                | John Payne, NSSI and Carl Markon, DOI           |
| Wildfires (WCT)                              | Kent Slaughter, DOI                             |
| Atmosphere (ACT)                             | Ashley Williamson, DOE                          |
| Arctic Observing Systems (AOSCT)             | Erica Key, NSF                                  |
| Arctic Data (ADCT)                           | Marco Tedesco, NSF                              |
| Modeling (MCT)                               | Mike Kuperberg, DOE; Scott Harper, DOD          |
| Human Health (HHCT)                          | Alan Parkinson, HHS/CDC; Tom Hennessey, HHS/CDC |
| Communities (ACCT)                           | Bill Fitzhugh, SI                               |

**\*\* Jointly Implemented w\ National Ocean Council**

# Who's Participating in Implementation?

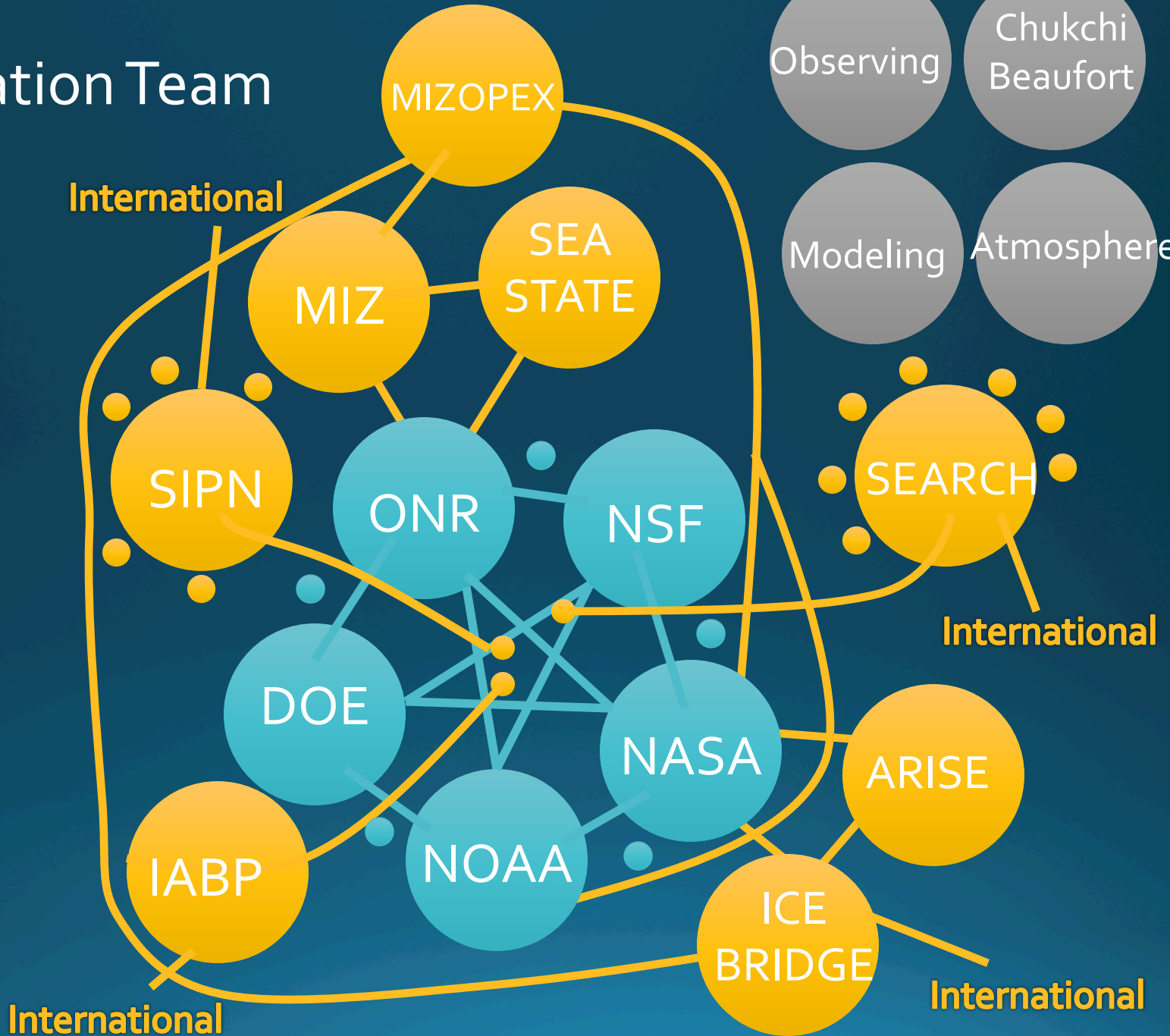
#Participants Lead Agency

| Collaboration Team                 | Participating U.S. Federal Agencies |     |     |     |     |     |     |     |     |      |     |      |    |       |      |      | Non-Federal Partners |
|------------------------------------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|----|-------|------|------|----------------------|
|                                    | DOC                                 | DOD | DOE | DOI | DOS | DOT | EPA | HHS | MMC | NASA | NSF | OSTP | SI | USARC | USCG | USDA |                      |
| Arctic Communities                 | 3                                   | 1   |     | 7   | 2   |     |     | 1   |     | 2    | 4   | 1    | 4  |       |      |      | 28                   |
| Arctic Data                        | 8                                   | 4   | 1   | 17  |     |     | 1   |     |     | 6    | 3   | 1    |    | 2     |      | 2    | 13                   |
| Arctic Observing Systems           | 7                                   | 3   | 2   | 14  |     |     |     |     |     | 2    | 3   | 1    |    | 1     | 1    |      | 32                   |
| Atmosphere                         | 9                                   | 1   | 3   |     |     |     | 1   | 1   |     | 6    | 2   | 1    |    |       |      |      | 12                   |
| Chukchi & Beaufort Seas            | 18                                  | 4   | 1   | 10  |     |     |     |     | 1   | 3    | 2   | 1    |    | 2     |      |      | 13                   |
| Distributed Biological Observatory | 9                                   | 2   |     | 5   |     |     |     |     | 1   | 4    | 2   | 1    |    | 2     |      |      | 13                   |
| Glaciers & Fjords                  | 2                                   | 1   | 3   | 1   |     |     |     |     |     | 3    | 5   | 1    |    |       |      |      | 5                    |
| Human Health                       | 1                                   | 1   |     | 2   |     |     | 1   | 4   |     | 2    | 2   | 1    |    | 1     |      |      | 13                   |
| Modeling                           | 8                                   | 2   | 4   | 6   |     | 1   |     |     |     | 6    | 3   | 1    |    |       |      | 2    | 8                    |
| Sea Ice                            | 16                                  | 8   | 2   | 3   |     |     |     |     |     | 3    | 3   | 1    |    |       | 1    |      | 16                   |
| Terrestrial Ecosystems             | 1                                   | 1   | 3   | 11  |     |     |     |     |     | 5    | 2   | 1    |    |       |      |      | 15                   |
| Wildfires                          | 2                                   | 1   | 1   | 8   |     |     |     |     |     | 3    | 1   | 1    |    |       |      | 1    | 9                    |

# Sea Ice Collaboration Team Network Map

## Legend

- Agencies
- Programs
- Collaboration Teams
- Minor
- Partners





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## Building collaborations to advance Arctic research

IARPC (Interagency Arctic Research Policy Committee) Collaborations are U.S. Agency led efforts to advance Arctic research in cooperation with non-Federal partners.

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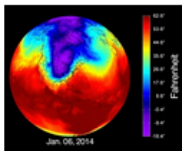
Photo by Karl Horels (PolarTREC 2010), Courtesy of ARCUS

### Latest news

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### Collaboration teams

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- Arctic Communities
- Arctic Data
- Arctic Observing Systems
- Atmosphere
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#### NASA's Operation IceBridge to host Town Hall Meeting at Fall AGU

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Dec 7, 2014 by Christine Mataya - Topics NASA, Data, Glaciers, AGU and 3 more



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- Post update
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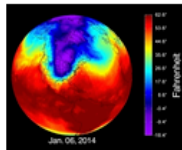
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# IARPC Collaborations

## Webinars

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### Sea Ice Collaboration Team Meeting with Presentation on MIZOPEX UAS Project by Jim Maslanik

[Edit event](#)[Delete](#)

**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

#### MIZOPEX

MIZOPEX UAS project (James Maslanik and William...)

- Operations under FAA COA
- Launch/land from C-130 gravel runway in Restricted Airspace R-2204
- NOTAM issued thru Deadhorse FSS
- Transit within 1 nm wide x 2000' high transit corridor to international airspace
- Mode C transponders in use
- Ground-based radar for sense-and-avoid

- Flight as State Aircraft under Due Regard
- All ops at or below 2000' MSL
- Scheduled areas of operation (72A - 74I) available on NOTAM and mission status recording
- Coordination with other aircraft
- Close coordination with NOAA NMMIL survey flights

0:00 / 37:32

[Schedule event](#)

...and include related agenda, presenter bios, documents, links, phone and web connection info, and more. After the event you can post the minutes.

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- 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](#)
- 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.



# What's Coming Next?



Courtesy Roger Mommaerts via Flickr

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](http://www.iarpccollaborations.org)

IARPC lead within OSTP:

Simon Stephenson [Simon\\_N\\_Stephenson@ostp.eop.gov](mailto:Simon_N_Stephenson@ostp.eop.gov)

IARPC Secretariat:

Sara Bowden, [bowden@arcus.org](mailto:bowden@arcus.org)