

How to Connect With Arctic Research Across Boundaries

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ARCUS: Connecting Arctic Research Since 1988

Connecting Arctic Research

1. Arctic research is important and timely.
2. Arctic research is expensive and hard.
3. Arctic research is rewarding.

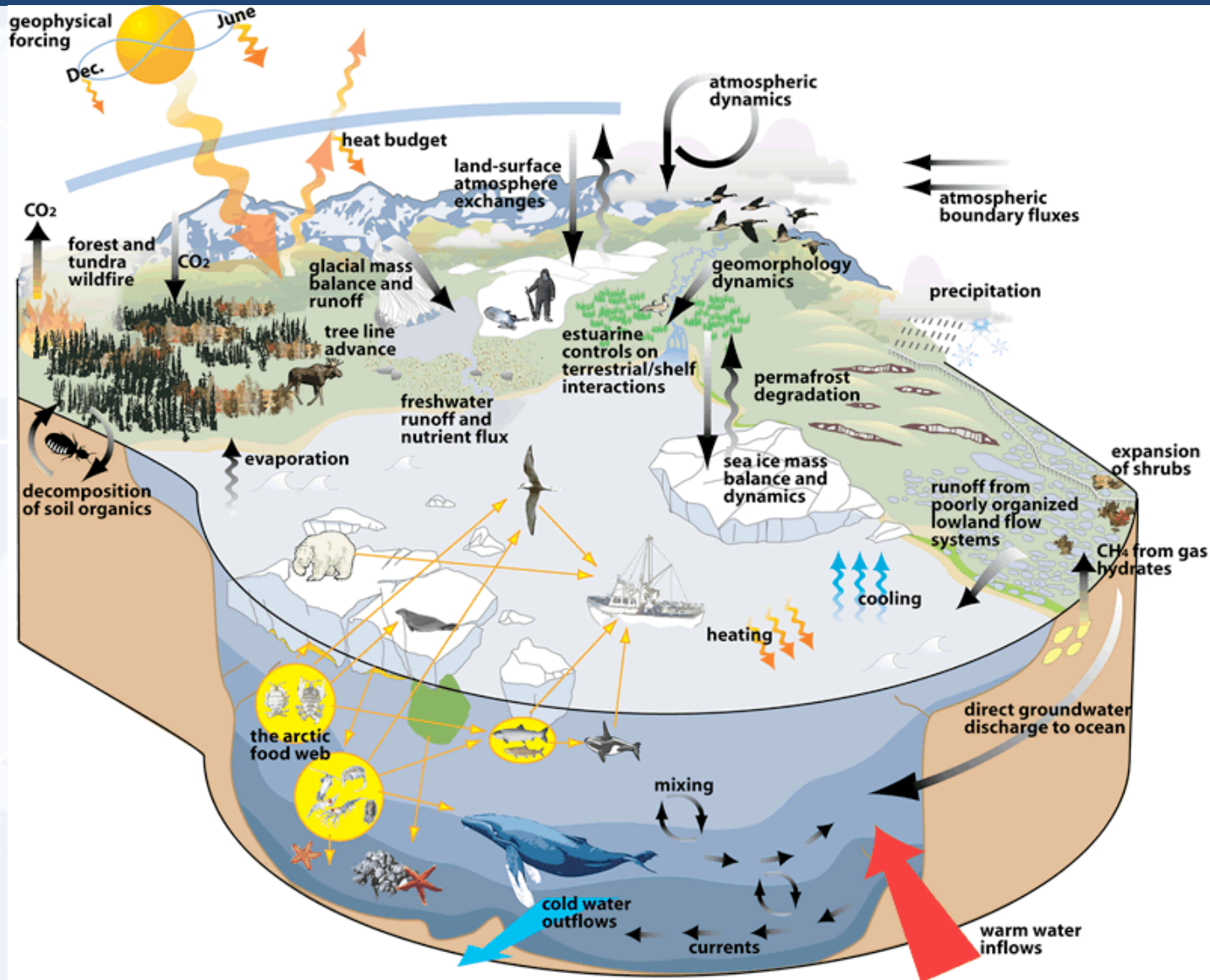
And...

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The Arctic is a Complex, Interdependent System



Source: SEARCH, 2005



Understanding the Arctic Requires Connecting Across Boundaries

Sector Boundaries

- Academic
- Government
- Industrial
- Indigenous
- Non-Governmental
- Public and Society

Geographic Boundaries

- International / Circumpolar (National Boundaries)
- Arctic Residents / Global Population (Regional Perspectives)

Disciplinary Boundaries

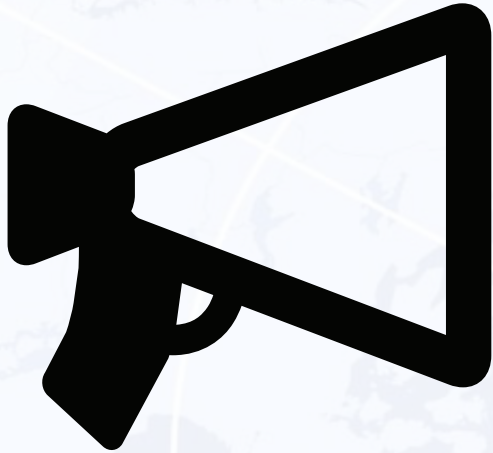
- Physical Science
- Life / Natural Science
- Engineering
- Social Science
- Education
- Community Development

Photo by Robert Harris (PolarTREC 2007)

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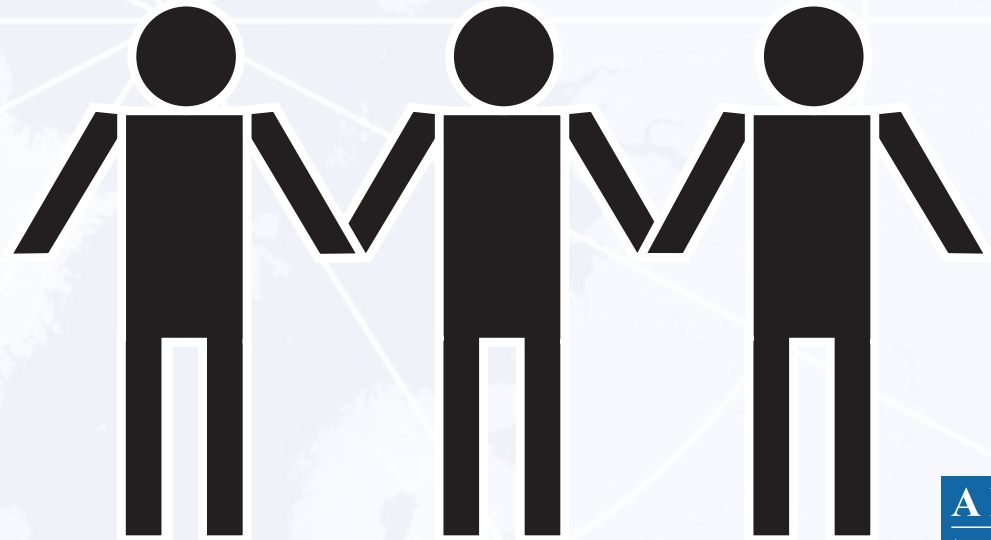


What Does “Connecting Arctic Research” Mean?



- **Communication**

- **Coordination**



- **Collaboration**

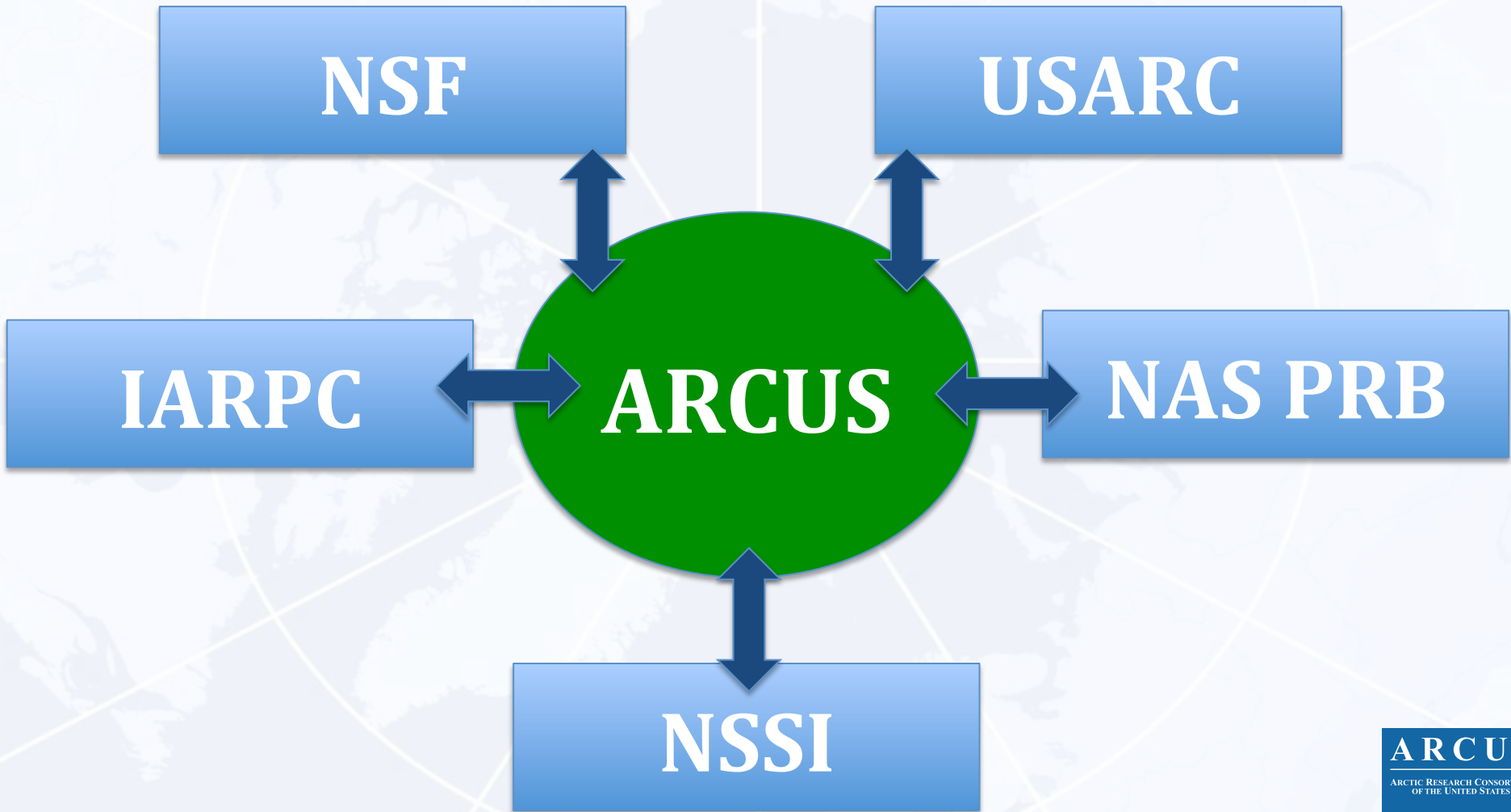


Who We Are

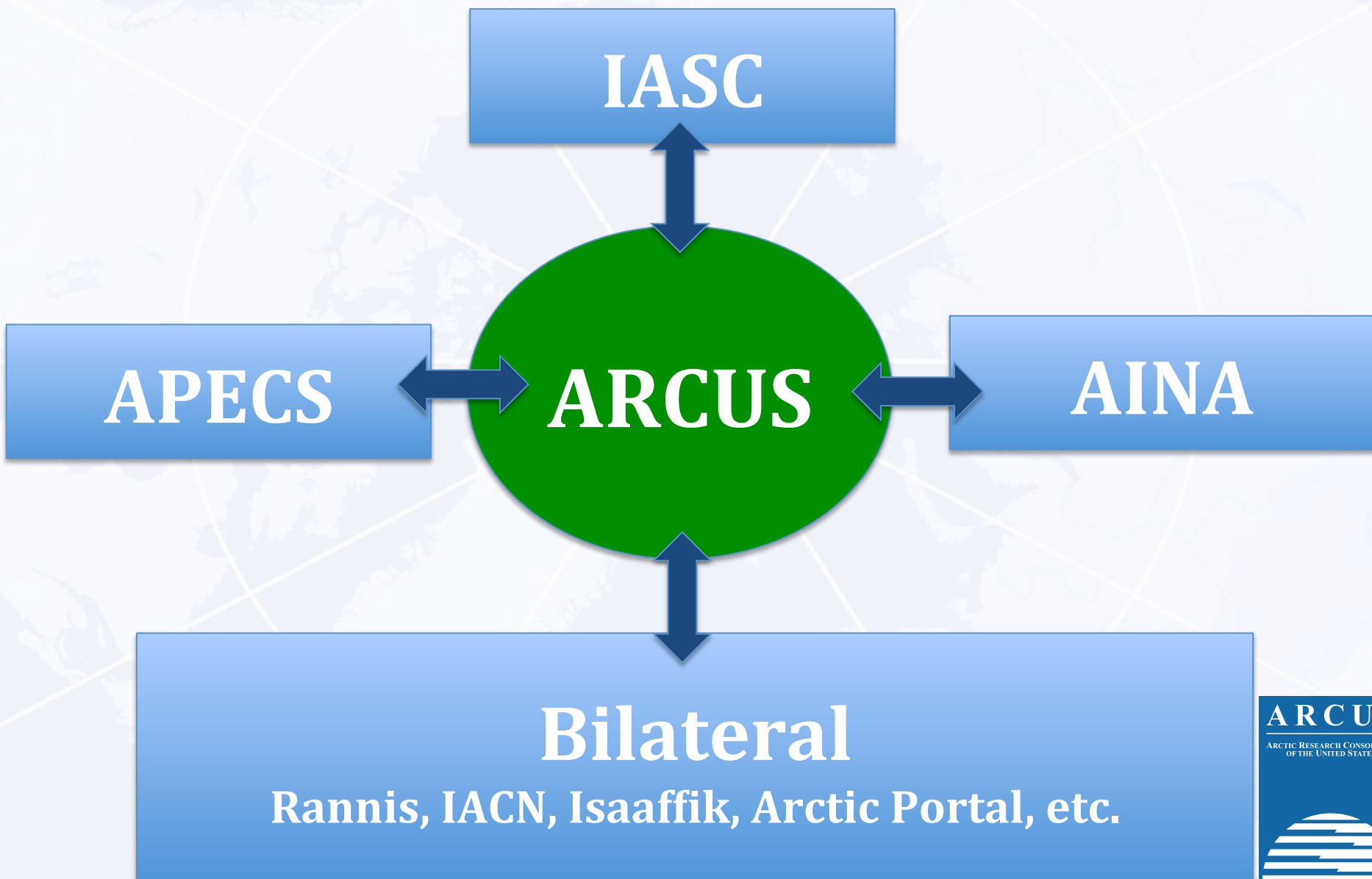
- A Consortium of 30 of the leading Arctic research organizations around the U.S. and the world
- A growing association with 54 individual members
- An engaged Board of Directors
- A dedicated team of 13 professionals spread throughout Alaska, D.C., and five other U.S. states
- Many teams of volunteers making things happen
- A grantee of the U.S. National Science Foundation and other agencies
- Dedicated to **“Connecting Arctic Research”** since 1988



Key ARCUS Partners in the U.S.



Key ARCUS Global Partners



Communication: Electronic

ArcticInfo

Community job, meeting, and resource announcements

More than 6,000 subscribers – **You could be one**

Witness the Arctic

Publication issued 3 times per year

More than 12,000 subscribers – **You could be one**

Directory of Arctic Researchers

Comprehensive online resource for scientific contacts and collaborators

Contains more than 4,000 individuals – **Are you included?**

Arctic Calendar

Community events schedule

Over 60 events currently posted – **Is your event listed?**

Other ARCUS Communication Vehicles

Twitter: @ArcticResearch

Polar Education Email List, Web-Based Resources, Images, Videos

You can subscribe and explore

Photo by Tech. Sgt. Donald L. Wetterman, USAF

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Communication: Meetings

Arctic Research D.C. Seminar/Webinar Series

Bringing the latest, most significant Arctic research results to the D.C. community and the world:

- Past Speakers: Dr. Julie Brigham-Grette, Dr. Jennifer Francis, Dr. Jeremy Mathis, Dr. Ted Schuur, Ambassador Mark Brzezinski, Henry Huntington
- October 26 – Dr. George Divoky
- Sign up to participate at www.arcus.org/research-seminar-series

White House Arctic Science Ministerial Side Event Permafrost Methane Synthesis Workshop

ASSW 2017 Panel

- Building partnerships among multiple knowledge systems to enhance understanding of a dynamic Arctic

Photo by ARCUS staff.

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Communication: Informal Meetings and Conversations:

At ARCUS, we work to:

- Promote communication, coordination, and collaboration
- Apply resources to advance the research
- Connect organizations, individuals, and activities
- Inform participants about other related activities
- Trigger creativity and innovation
- Support IARPC awareness, capacity to engage
- Help in outreach and education
- Understand concerns and challenges, bring other resources to bear

Bottom Line: The community is often fragmented and ARCUS can provide connections across boundaries.

Coordination: Sea Ice Prediction Network

Sea Ice Outlook & Sea Ice for Walrus Outlook



Photo by Cristina Galvan (PolarTREC 2009)

- Ever-increasing record numbers of submissions each month to Sea Ice Outlook
- Produces reports in June, July, and August each year



Photo by Dave Withrow, Courtesy of Robyn Staup (PolarTREC 2007)

- Collaborative project with NWS, NOAA, coastal Arctic communities
- Exploring expansion to other places



Collaboration: Study of Environmental Arctic Change (SEARCH)

- Generates and synthesizes **research findings**
- Identifies **emerging issues** in Arctic environmental change.
- Provides **scientific information** to stakeholders
- **Facilitates research** activities, supports decision-makers.
- Collaborates with **national and international** programs.
- Regularly solicits **research community input**.

Current SEARCH Focus Areas

- **Sea Ice:** Communicating what matters
- **Land Ice/Glaciers/Greenland Ice Sheet:** Coordinating measurement of what matters
- **Permafrost:** Synthesizing what matters for Carbon, Infrastructure, and Landscapes/Ecosystems
- **Planned:** Coastal Resilience, Arctic Future Scenarios



Collaboration: Educational

PolarTREC

- Invigorating polar science education and understanding by bringing K-12 educators and polar researchers together
- More than a decade of positive impact on researchers, teachers, students, the public
- Opportunities open for 2017-2018

The Arctic in the Classroom

- Connecting Arctic Alaska teachers, their students and communities with research

Photo by Lauren Watel, Courtesy of Regina Brinker (PolarTREC 2014)

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Elements of Successful Connection

- 1. Identify the Type of Connection Appropriate to Your Goal**
 - **Communication (Simple)**
 - **Coordination**
 - **Collaboration (Complex)**
- 2. Identify Key Players**
- 3. Design a Process for Managing the Connection**
- 4. Foster Good Relationships Throughout**
- 5. Don't Underestimate the Support and Resources Needed**
- 6. Be Patient**



You Can Be a Connector!

- **All who share our mission are eligible to join ARCUS**
 - **Academic / Research Institution**
 - **College**
 - **Department**
 - **Government Agency**
 - **Indigenous Organization**
 - **Corporation**
 - **Individual (Arctic Research Supporter)**
 - **You can join, becoming a connector of Arctic research**
 - **Apply today! We can take your application here!**

See www.arcus.org for more information on how to get involved



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Connecting Arctic Research Since 1988

What else do you want to know about Arctic research and ARCUS?

How can we help you to connect?

What successes or challenges can you share about connecting across Arctic boundaries?

www.arcus.org

ARCUS is a catalyst for interdisciplinary thinking, acting, and education leading to the development of highly collaborative partnerships.

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