

A Brief Introduction to the Arctic Research Consortium of the United States

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ARCUS: More than 25 Years of Connecting Arctic Research

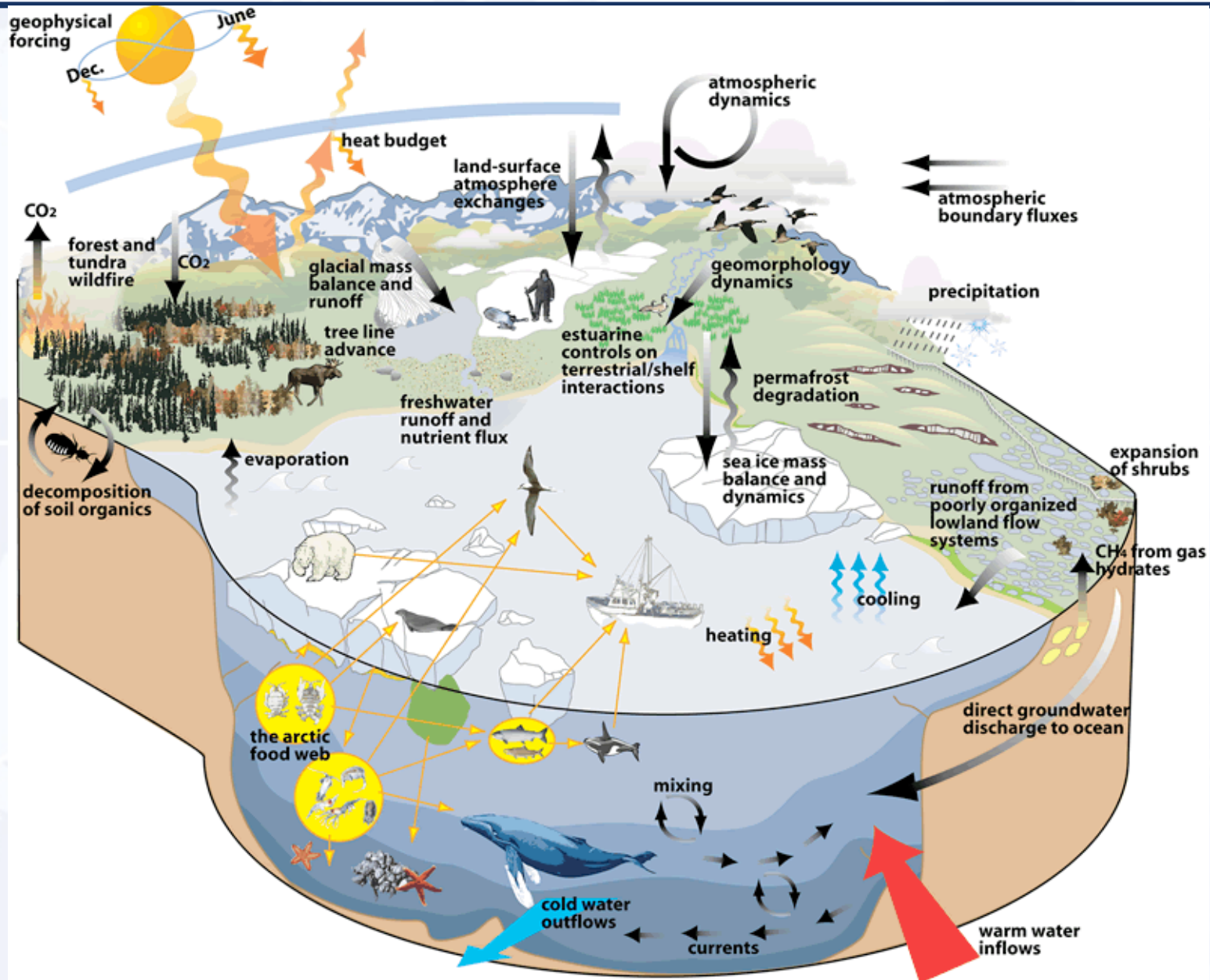
ARCUS: Connecting Arctic Research

1. Arctic research is important.
2. Arctic research is timely.
3. Arctic research is hard.
4. Arctic research is rewarding.

And...



The Arctic is a Complex, Interdependent System



Source: SEARCH, 2005

Understanding the Arctic Requires Connecting Across Boundaries

Sectors

- Academic
- Government
- Industrial
- Indigenous
- Non-Governmental

Disciplines

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

Career Stages

- K-12
- Undergraduate/Graduate
- Postdoctoral / Early Career
- Professional / Faculty
- Retired

Also

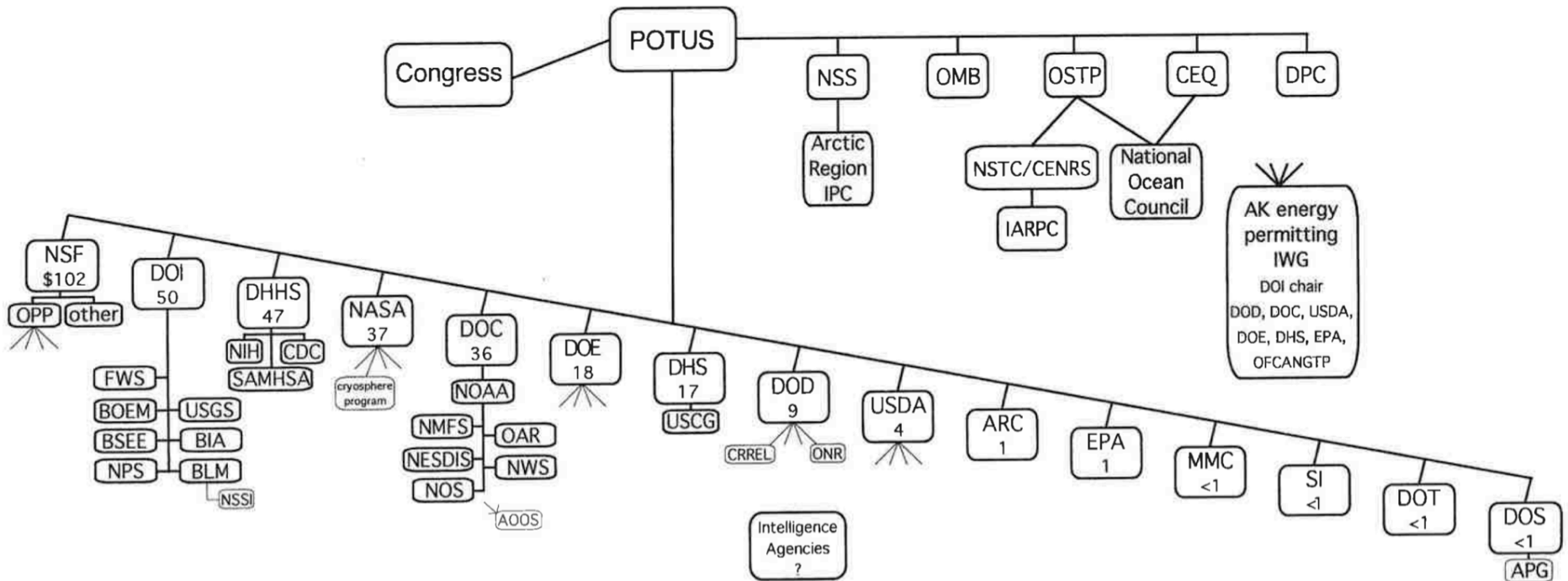
- International / Circumpolar
- Scientists / Society
- Arctic Residents / Global Population

Photo by Kevin McMahon (PolarTREC 2011)



Understanding the Arctic Requires Connecting Across Boundaries

Arctic research in the Federal government



Budget figures, in million \$, are for FY05, as self-reported by IARPC members and reported in "Arctic Research of the US" vol. 20, published by NSF in 2006

Source: John Farrell, USARC, 2011



ARCUS Vision

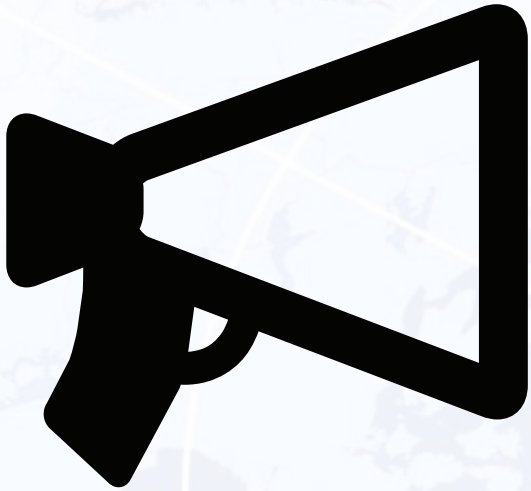
ARCUS envisions strong and productive linkages among international Arctic researchers, educators, communities, and other stakeholders that promote discovery and understanding of the Arctic and inform sound decisions related to the Arctic.

Who We Are

- A Consortium (i.e., association) of the leading Arctic research organizations around the nation and the world
- An engaged Board of Directors
- A dedicated team of 15 professionals spread throughout Alaska, D.C., and four other U.S. states
- Many teams of volunteers making things happen
- A grantee of the National Science Foundation and other agencies
- Dedicated to **“Connecting Arctic Research”** for more than 25 years

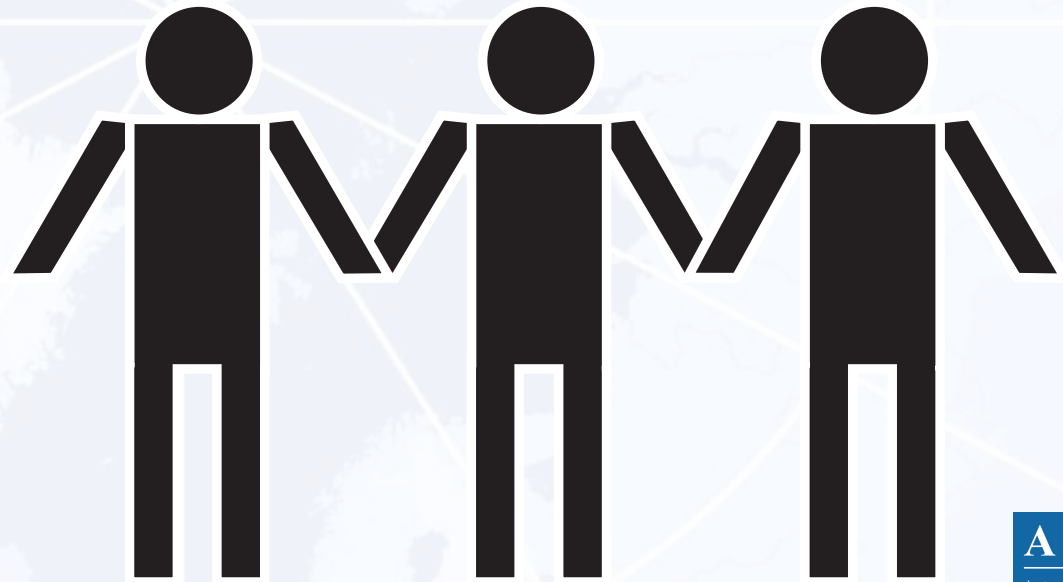


What Does “Connecting Arctic Research” Mean?



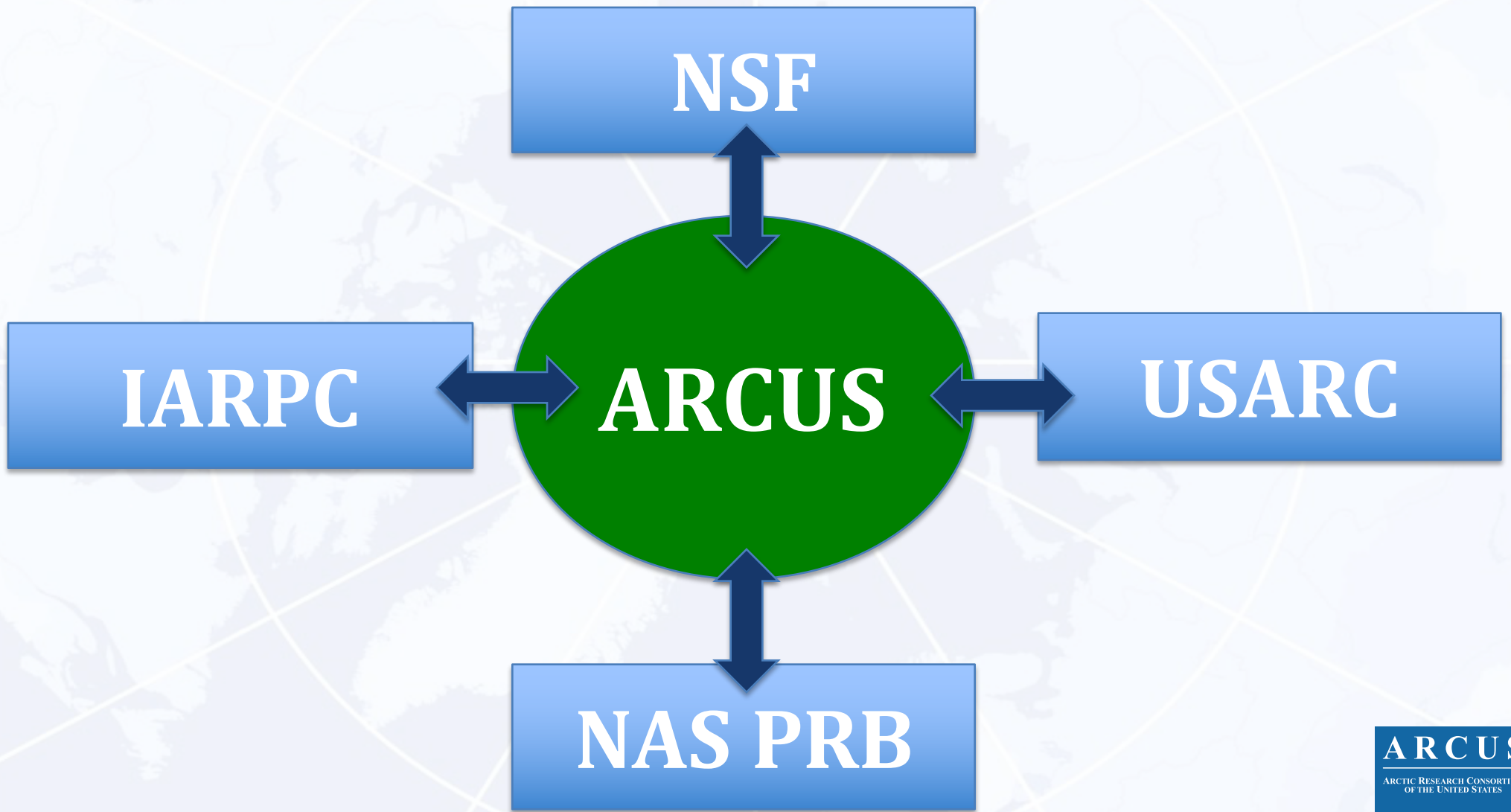
- **Communication**

- **Coordination**



- **Collaboration**

Four Central ARCUS Partners



Communication: Electronic

ArcticInfo

Community job, meeting, and resource announcements

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

Directory of Arctic Researchers

Online resource for scientific contacts and collaborators

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

Witness the Arctic

Publication issued 3 times per year

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

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 ARCUS staff.

ARCUS
ARCTIC RESEARCH CONSORTIUM
OF THE UNITED STATES



Communication: Meetings

Arctic Science Summit Week / Arctic Observing Summit

- March 12-18, 2016 in Fairbanks, Alaska
- ARCUS-IARPC forum,
- The Arctic in the Classroom Workshop,
- ARCUS Arctic Community Reception,
- And much more – **Hope to see you at ASSW**

Arctic Research D.C. Seminar/Webinar Series

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

- January 15 – Dr. Julie Brigham-Grette
- February 18 – Dr. Jennifer Francis
- March 31 – Dr. Jeremy Mathis
- You could be next

– **Sign up to participate at www.arcus.org/research-seminar-series**

Photo by ARCUS staff.



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

- **Arctic Observing Network (AON)**
- **Interagency Arctic Research Policy Committee (IARPC)**
 - ARCUS hosted and supported IARPC Team Leaders strategy update meeting and IASC/IARPC meetings in December
 - ARCUS/IARPC developing new collaborative webinar series
 - ARCUS encouraging community engagement through IARPC Collaborations – **Are you on a Collaboration Team?**
- **NSF Risk/Safety Summit Workshops and Report**
 - **You can read the recent report online**
- **The Arctic in the Classroom**
 - Connecting Arctic Researchers, Alaskan Communities, and Educators
 - **You are invited to the “Make an Impact” workshop March 13-15 in Fairbanks**

Collaboration: Study of Environmental Arctic Change (SEARCH)

- Generates and synthesizes research findings and promotes Arctic science and scientific discovery
- Identifies emerging issues in Arctic environmental change.
- Provides scientific information to Arctic stakeholders, policy-makers, and the public to help them understand and respond to Arctic environmental change.
- Facilitates research activities, with an emphasis on addressing needs of decision-makers.
- Collaborates with national and international science programs integral to SEARCH goals.
- Regularly solicits research community input
- Recently hired new Executive Director, Dr. Brendan Kelly, and completed 2016-2017 program plan.

Photo by Ute Kaden (TREC 2005)



Collaboration: 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
- Webinar on stakeholder needs and priorities for sea ice prediction
- Post-season reports, peer-reviewed article prepared

- Season is completed for SIWO
- SIWO review article developed



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

Collaboration: PolarTREC

- Invigorating polar science education and understanding by bringing K-12 educators and polar researchers together
- Strong track record (more than a decade) of positive impact on researchers, teachers, students, and the public
- New grant award for 2016-2017
- This summer, you are invited to apply as a researcher for the 2017-2018 program

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



Broadening the ARCUS Network

- **New Member Benefits, New D.C. Office**
- **New Membership Categories:**
 - **Academic / Research Institution / Agency**
 - **Indigenous Organization**
 - **Corporate**
 - **Individual (Arctic Research Supporter)**
 - **You can join, becoming a connector of Arctic research**
 - **Apply today!**
- **Renewed Commitment to Support All Arctic Research Stakeholders**

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



Scientific Cooperation

- The Arctic research community needs to work across all of the many boundaries
- ARCUS is here to support this communication, coordination, and collaboration

- You are invited to join with us in “Connecting Arctic Research”

Photo by Robert Harris (PolarTREC 2007)

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ARCUS: 25 Years of Connecting Arctic Research

*What do you want to know about
ARCUS?*

How can we help you to connect?

www.arcus.org

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

