

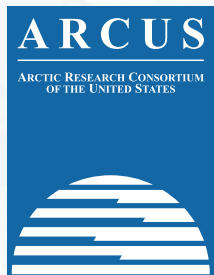
Welcome to the ARCUS Annual Meeting!



Connecting Arctic Research Since 1988

Board of Directors Election

- The ARCUS Board has 12 members, plus the President
- The Board is elected by this Council
- The Council shall elect four of the Directors each year
- The Board term is three years, renewable
- Only voting (organizational) members who are current in the payment of dues and Board members may vote
- There was an online balloting November 27-December 11. Only the first ballot from each member counts.
- If you have not voted, you should have been handed a ballot. Those online can send their votes by private message through Zoom to Betsy-Turner Bogren.



2017 Board of Directors Nominees

- **Igor Appel** - TAC LLC
- **Rasmus Bertelsen** - UIT: The Arctic University of Norway
- **Kaare Erickson** - UIC Science
- **James Hemsath** - Alaska Industrial Development & Export Authority
- **Diane Hirshberg** - University of Alaska Anchorage
- **Liza Jenkins** – Michigan Tech Research Institute
- **Olivia Lee (Incumbent)** – University of Alaska, Fairbanks
- **Caryn Rea** – ConocoPhillips, Retired
- **Nikolay Shiklomanov** – George Washington University
- **Charlene Stern** – University of Alaska, Fairbanks



Welcome to the ARCUS Annual Meeting!



Connecting Arctic Research Since 1988

Understanding the Arctic Requires Connecting Across Boundaries

Sector Boundaries

- Academic
- Government
- Industrial
- Indigenous
- Non-Governmental Organizations
- 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 Robyn Staup (PolarTREC 2007)



Who We Are

- A Consortium of 36 of the leading Arctic research organizations around the U.S. and the world
- A growing association with 91 individual members
- An engaged Board of Directors
- A dedicated team of 15 professionals spread throughout Alaska, D.C., and six other U.S. states
- Many teams of volunteers making things happen
- A grantee of the U.S. National Science Foundation and other agencies
- A not-for-profit charitable 501c(3) organization
- Dedicated to **“Connecting Arctic Research”** since 1988

Photo by Joed Polly (ARCUSFest 2017)

ARCUS
ARCTIC RESEARCH CONSORTIUM
OF THE UNITED STATES



ARCUS Team



BRANDI AUSTIN
Business Manager
2017



TISSA DUNKLEY
Accountant
2017



JUDY FAHNESTOCK
Project Assistant
2008



BRIT MYERS
Project Manager
2015



RONNIE OWENS
Director of Web Development
2004



JOED POLLY
Video/Online Media
2001



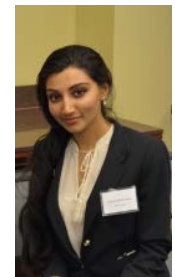
ZEB POLLY
Systems
Administrator-2000



ROBERT RICH
Executive Director
2015



LISA SHEFFIELD-GUY
Project Manager
2015



ASMA SHETHWALA
Executive Administrative
Assistant
2017



STACEY STOUTD
Administrative Assistant
2016



BETSY TURNER-BOGREN
Project Manager
2010

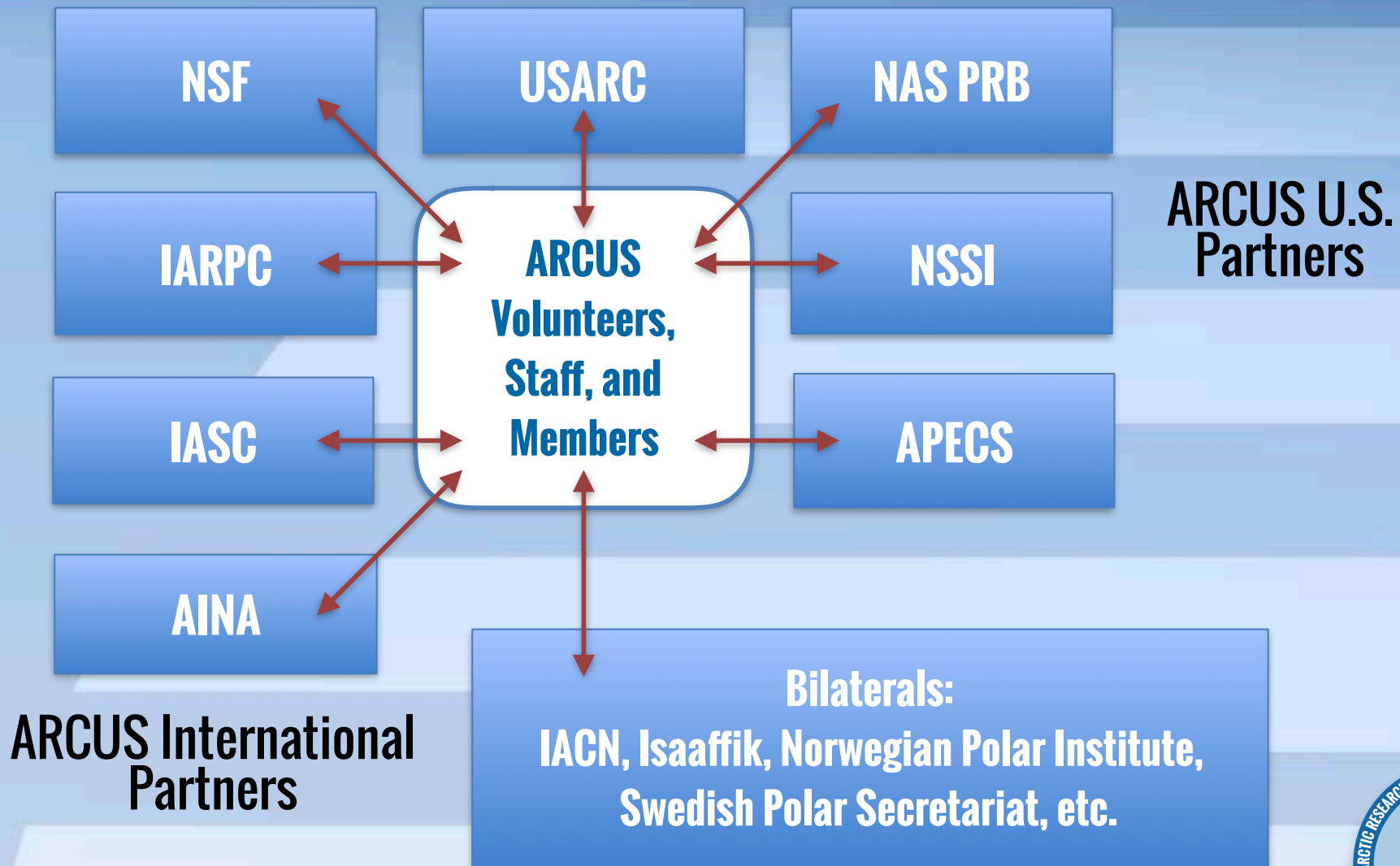


JANET WARBURTON
Project Manager
2000



HELEN WIGGINS
Director of Programs
2003

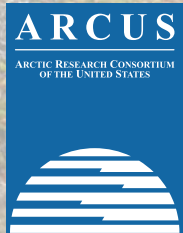
ARCUS Operates in Cooperation With All Other Arctic Research-Related Groups



ARCUS Goals

- 1. Clear Identity** - ARCUS will be known for connecting Arctic research across boundaries.
- 2. Organizational Strength** - ARCUS will have an engaged, dedicated, and capable board, membership, and staff.
- 3. Fiscal Stability** - ARCUS will secure diverse funding sources to support a range of programs that advance the mission.
- 4. Impact** - ARCUS will galvanize the Arctic research community, address stakeholder needs, and raise awareness of the importance and value of Arctic research.

Photo by Robert Rich (Greenland 2017)



Goal 1 - Clear Identity



25 YEARS OF CONNECTING ARCTIC RESEARCH

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.

MISSION

Our mission describes the way we serve our members and the Arctic research community. ARCUS is a catalyst for interdisciplinary thinking, acting, and education leading to the development of highly collaborative partnerships.

GOALS

1. Clear Identity

ARCUS is the place where arctic researchers come to develop and manage interdisciplinary collaborative projects.

2. Organizational Strength

ARCUS has a fully committed, strategically focused board and an actively engaged member population.

3. Fiscal Stability

ARCUS enjoys a diverse stream of funding sufficient to support a wide range of programs that advance the mission.

4. Impact

ARCUS galvanizes the Arctic research community, meets stakeholder needs, and raises public awareness of the importance of the Arctic.



MEMBERSHIP

Membership in ARCUS enables you to participate in the world's leading community promoting discovery and understanding of the Arctic and informing sound decisions related to the Arctic.

ARCUS members form the core of our extensive network, which enables increased understanding of this critical and dynamic region. Our members include organizations and individuals who are making valuable contributions to Arctic research.

Join ARCUS today in connecting people across boundaries to support communication, coordination, and collaboration in Arctic research.

Be a part of our team focused on understanding the changing Arctic.

There are membership opportunities for everyone:

ACADEMIC AND RESEARCH INSTITUTIONS

INDIGENOUS ORGANIZATIONS

CORPORATE ORGANIZATIONS

INDIVIDUALS

Join us today:
www.arcus.org/arcus/member-information

CONNECTING THE COMMUNITY ArcticInfo Community job, meeting, and resource announcements Over 6,000 subscribers Witness the Arctic Publications issued 3 times per year Over 12,000 subscribers PolarTREC Connects researchers and K-12 teachers for hands-on field experiences 54 teachers sent to Arctic and Antarctic field sites Directory of Arctic Researchers Lists resources in scientific contacts and collaborators Contains over 4,000 individuals Arctic Calendar Community events schedule Over 60 events currently posted	SUPPORTING THE COMMUNITY Study of Environmental Arctic Change (SEACAC) Sea Ice Prediction Network (SIPN) Sea Ice Outlook (SIO) Sea Ice for Walrus Outlook (SIO-W) Arctic Boasting Network (ABN) Interagency Arctic Research Policy Committee (IARPC) Meetings and Workshops NSF Risk/Safety Summit Workshops and Reports
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3535 College Road, Suite 101
Fairbanks, Alaska 99709-3710 USA
Phone: 907.474.1600
Fax: 907.474.1604
info@arcus.org

ARCTIC RESEARCH

AND THE
ARCTIC RESEARCH CONSORTIUM OF THE UNITED STATES (ARCUS)

The Arctic is changing rapidly in many ways that will affect people everywhere

- Environmental change will be disruptive: Sea level is rising faster, weather patterns are changing, sea ice is diminishing, permafrost is thawing and releasing greenhouse gases
- Some changes will provide new opportunities: More shipping, easier access to resources, emerging economic markets
- Strategic issues are arising over resource and routing access, control, and ownership
- Globalization and other economic drivers interact with environmental factors
- Direct impacts upon Arctic residents and ecosystems: permafrost thaw, coastal erosion, resource development, food security

We need Arctic research: To understand and respond to Arctic change

- What changes are occurring, at what rates and extents, and what might happen next?
- What are local, regional, and global impacts of changes?
- How to mitigate or adapt to negative impacts?
- How to best take advantage of new opportunities
- How to pursue sustainable Arctic development: community resilience, infrastructure investment, regulatory policies

ARCUS connects, supports and advances Arctic research

- Connects Arctic research across boundaries and scales: disciplines, sectors (academic, industry & government), institutions, nations
- Facilitates full partnerships among Indigenous communities, observation initiatives, and knowledge systems in research
- Communicates Arctic research results to decision makers and the public
- Inspires the next generation of scientists via educational programs for teachers and students
- Advocates for Arctic research

Highlights of ARCUS Programs

- Project Office for Study of Environmental Arctic Change (SEACAC)
- Support to Interagency Arctic Research Policy Committee (IARPC)
- PolarTREC (Teachers and Researchers Experimenting and Collaborating)
- Project Office for Sea Ice Prediction Network
- The Arctic in the Classroom
- ArcticInfo, Arctic Calendar, Directory of Arctic Researchers, Internet Media Archive, website
- Arctic Research Community Networking and Events (e.g., Anchorage Arctic Research Day, AGU)
- Witness the Arctic and Witness Community Highlights e-Newsletters
- Sea Ice for Walrus Outlook
- Fostering Indigenous-Researcher Interactions

ARCUS details

- Small 501(c)(3) not-for-profit member-focused organization
- Members worldwide include more than 35 academic, research, government, corporate, and Indigenous organizations, along with a growing number of individuals
- Established in 1988-long track record of success in connecting Arctic research
- Extensive collaboration with other Arctic organizations
- Offices in Fairbanks, Alaska and Washington, DC, with 15 staff nationwide

3535 COLLEGE ROAD • SUITE 101 • FAIRBANKS, ALASKA 99709-3710
Phone: 907.474.1600 • Fax: 907.474.1604 • Email: info@arcus.org • Web: www.arcus.org • Twitter: @ARCTICRESEARCH



Perspectives on ARCUS Impact

"The work of ARCUS continues to be invaluable in that it brings together highly knowledgeable and capable authorities including researchers, indigenous experts, business and government experts to collaboratively address issues in the Arctic."
— Craig Fleener, State of Alaska Arctic Policy Advisor

"The Arctic issue has local, national and global reach, and the awareness and proactive involvement of Washington in the future of the Arctic is an important U.S. interest. ARCUS provides a critical platform to 'speak' with researchers and key stakeholders. This role could not be more important right now."
— Mark Brazinski, Moskva Capital

"The University of Alaska Fairbanks (UAF) is proud to have been a founding and continuous member of ARCUS since 1988. UAF values and appreciates the service that ARCUS provides to the national and international Arctic research communities. ARCUS has been very successful at promoting Arctic science, engineering and culture to the broader public, and to relevant state and federal agencies, enabling countless collaborative achievements over the past three decades."
— Larry Hirshberg, University of Alaska, Fairbanks

"I really value how ARCUS connects university, government and non-profit researchers, K-12 educators, policymakers and the public across the U.S. to ensure both dissemination of Arctic research and informed dialogue on the issues affecting the region."
— Diane Hirshberg, University of Alaska, Anchorage

Join With ARCUS!

All who engage in Arctic research are invited to become Members of ARCUS, and all who value Arctic knowledge are encouraged to support our work.

As a Member, you are a part of the world's leading community that promotes discovery and understanding of the Arctic region. Your support helps us provide high quality programs and resources to promote Arctic research. ARCUS members form the core of an extensive network, which enables increased understanding of this critical and dynamic region.

Join us today!
www.arcus.org/arcus/member-information

ARCUS CONNECTS ARCTIC RESEARCH ACROSS BOUNDARIES THROUGH COMMUNICATION COORDINATION COLLABORATION

ARCUS catalyzes strong and productive connections among U.S. and international Arctic researchers, educators, Indigenous knowledge holders, Arctic residents, and other stakeholders to promote exploration and understanding of the Arctic.

LEARN MORE @ WWW.ARCUS.ORG
ARCUS: CONNECTING ARCTIC RESEARCH ACROSS BOUNDARIES SINCE 1988



Goal 1 - Clear Identity

Broadening the ARCUS Network



Photos by Robert Rich (2017)

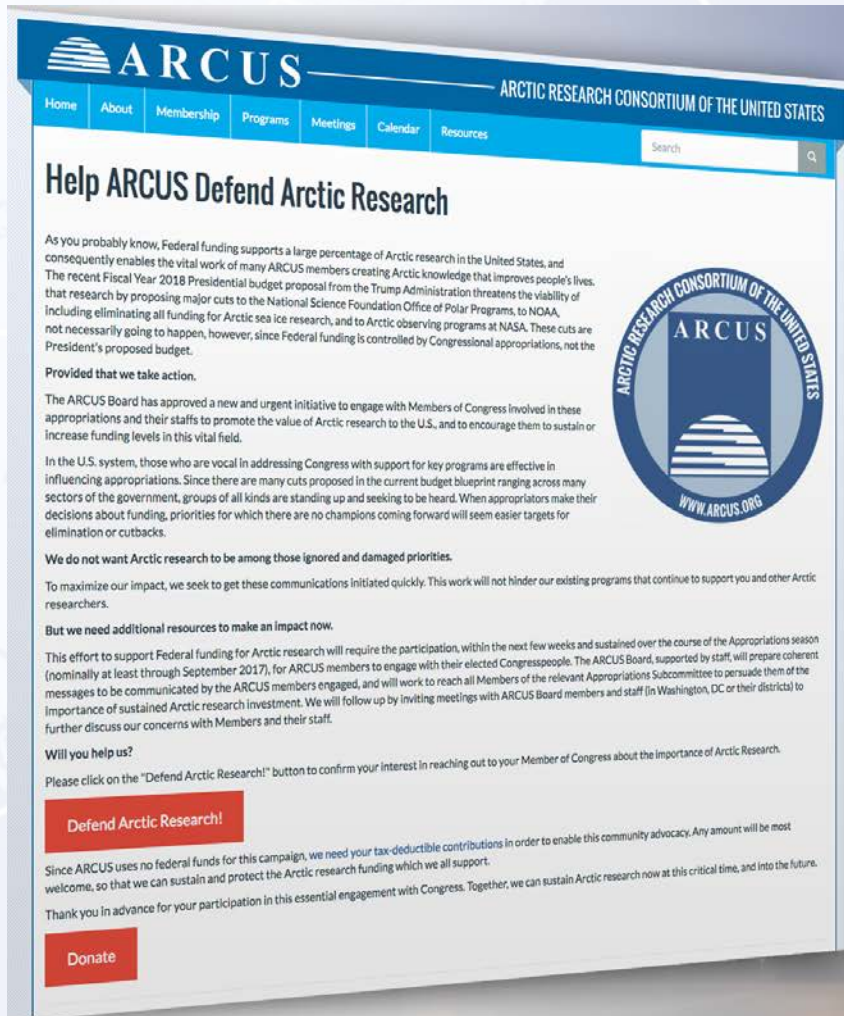
Goal 1 - Clear Identity

- Anchorage Arctic Research Day (would you like to host a similar pop-up event in your city?)



Goal 1 – Clear Identity

- Campaign to Defend Arctic Research



ARCUS ARCTIC RESEARCH CONSORTIUM OF THE UNITED STATES

Home About Membership Programs Meetings Calendar Resources

Help ARCUS Defend Arctic Research

As you probably know, Federal funding supports a large percentage of Arctic research in the United States, and consequently enables the vital work of many ARCUS members creating Arctic knowledge that improves people's lives. The recent Fiscal Year 2018 Presidential budget proposal from the Trump Administration threatens the viability of that research by proposing major cuts to the National Science Foundation Office of Polar Programs, to NOAA, including eliminating all funding for Arctic sea ice research, and to Arctic observing programs at NASA. These cuts are not necessarily going to happen, however, since Federal funding is controlled by Congressional appropriations, not the President's proposed budget.

Provided that we take action.

The ARCUS Board has approved a new and urgent initiative to engage with Members of Congress involved in these appropriations and their staffs to promote the value of Arctic research to the U.S., and to encourage them to sustain or increase funding levels in this vital field.

In the U.S. system, those who are vocal in addressing Congress with support for key programs are effective in influencing appropriations. Since there are many cuts proposed in the current budget blueprint ranging across many sectors of the government, groups of all kinds are standing up and seeking to be heard. When appropriators make their decisions about funding, priorities for which there are no champions coming forward will seem easier targets for elimination or cutbacks.

We do not want Arctic research to be among those ignored and damaged priorities.

To maximize our impact, we seek to get these communications initiated quickly. This work will not hinder our existing programs that continue to support you and other Arctic researchers.

But we need additional resources to make an impact now.

This effort to support Federal funding for Arctic research will require the participation, within the next few weeks and sustained over the course of the Appropriations season (nominally at least through September 2017), for ARCUS members to engage with their elected Congresspeople. The ARCUS Board, supported by staff, will prepare coherent messages to be communicated by the ARCUS members engaged, and will work to reach all Members of the relevant Appropriations Subcommittee to persuade them of the importance of sustained Arctic research investment. We will follow up by inviting meetings with ARCUS Board members and staff (in Washington, DC or their districts) to further discuss our concerns with Members and their staff.

Will you help us?

Please click on the "Defend Arctic Research!" button to confirm your interest in reaching out to your Member of Congress about the importance of Arctic Research.

Defend Arctic Research!

Since ARCUS uses no federal funds for this campaign, we need your tax-deductible contributions in order to enable this community advocacy. Any amount will be most welcome, so that we can sustain and protect the Arctic research funding which we all support.

Thank you in advance for your participation in this essential engagement with Congress. Together, we can sustain Arctic research now at this critical time, and into the future.

Donate



Goal 2 – Organizational Strength

- Arctic Research Community Knowledge Management



ARCUS — ARCTIC RESEARCH CONSORTIUM OF THE UNITED STATES

Home About Membership Programs Meetings Calendar Resources Search

About the Directory

Overview

The Directory of Arctic Researchers, funded by the National Science Foundation, contains the names, addresses, science specialties, and current research of 4120 Arctic researchers and specialists. It aids networking between individual investigators, institutions, funding agencies, and Arctic stakeholders to facilitate Arctic research and education efforts.

Researcher entries are not posted in the directory until we have received information directly from the researcher. Each researcher is requested to look over their entry and submit changes annually. Changes are also accepted at any time. To correct information in your directory entry, either email directory@arcus.org with the corrections, or submit a new survey form.

All inquiries regarding the Directory of Arctic Researchers should be directed to directory@arcus.org.

This directory is intended for legitimate use by Arctic researchers and their associates. Any commercial or other unsanctioned use is prohibited.

History

The online directory is a continuation of the original print version, *Directory of United States Arctic Researchers: A Preliminary Compendium*, started in 1994. The directory began including international Arctic researchers in April 1999.

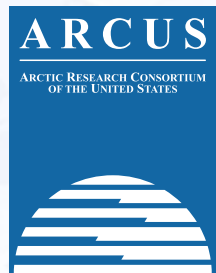
DAR
DIRECTORY OF ARCTIC RESEARCHERS

ARCUS
ARCTIC RESEARCH CONSORTIUM OF THE UNITED STATES

ARCUS is a nonprofit organization consisting of institutions organized and operated for educational, professional, or scientific purposes to advance Arctic research and education.

This website is supported in part by the National Science Foundation under Cooperative Agreement No. PLR-120434. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Arctic Research Consortium of the United States
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Suite 101
Fairbanks, Alaska 99709-1720
Tel: 479-2490
info@arcus.org



Goal 2 – Organizational Strength

- Membership up to 36 organizations and 91 individuals, including corporate, indigenous, and international organizations



Goal 2 – Organizational Strength

- AGU vitality and activities



Goal 2 – Organizational Strength

- ARCUSFest – Board-Staff Retreat



Goal 3 – Financial Stability

- Improving bottom line and annual budgeting
- Continued clean audits and great reputation from funders for grant administration



Goal 3 – Financial Stability

- Received Alaska Community Foundation grant to work with Foraker Group on becoming development-ready



Goal 3 – Financial Stability

- Established ARCUS Advisory Council and diversifying the Board

ARCUS Advisory Council



Vera Alexander
University of Alaska,
Fairbanks (retired)



Tom Barry
Arctic Council Conservation of Arctic
Flora and Fauna Working Group



Mark Brzezinski
Makena Capital, LLC



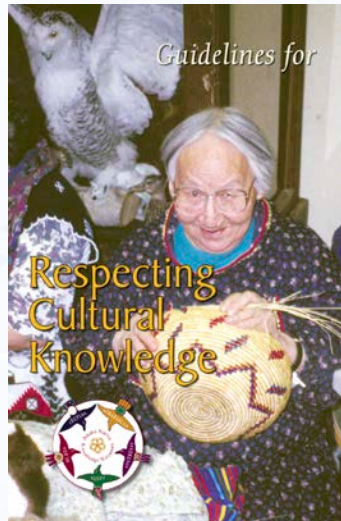
Brian Rogers
University of Alaska,
Fairbanks



Mead Treadwell
PT Capital, LLC

Goal 4 - Impact

- Fostering research – Arctic Indigenous community interactions: New program, SIWO extension, proposed workshop, web resources

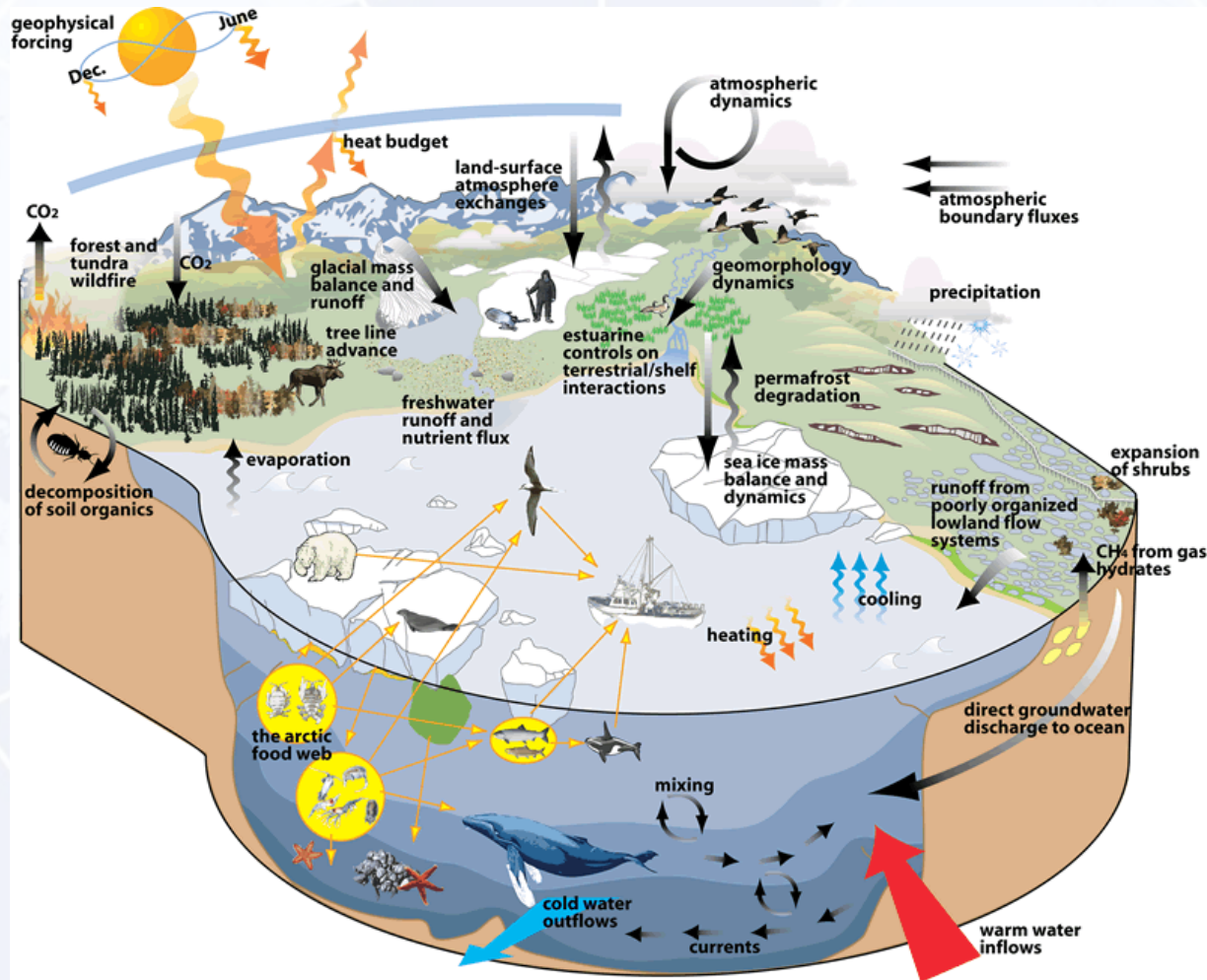


The image is a screenshot of the ARCUS website. The header includes the ARCUS logo and the text "ARCTIC RESEARCH CONSORTIUM OF THE UNITED STATES". Below the header is a navigation menu with links for Home, About, Membership, Programs, Meetings, Calendar, and Resources. The main content area is titled "Conducting Research with Northern Communities" and includes a sub-header "Documented Practices and Resources for Productive, Respectful Relationships Between Researchers and Community Members". The text discusses the importance of communication and cooperation with northern communities and provides a list of resources. A "Jump to Section" list is also visible. At the bottom, there is a section for "Draft Guidelines for Improved Cooperation Between Arctic Researchers and Northern Communities" with a link to the National Science Foundation's Office of Polar Programs.



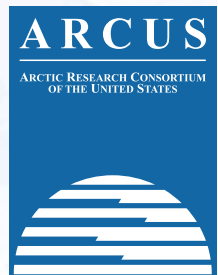
Goal 4 - Impact

- Contributing to synthesis and systems science understanding



Goal 4 - Impact

- Communicating Arctic research with stakeholders – Seminar series



Goal 4 - Impact

- Promoting education and citizen science partnerships



Your Role

We need YOU be a part of the ARCUS impact:

1. Get involved in an ARCUS activities
 - Projects
 - Committees
 - Meetings
 - Social Media
2. Become a member and become a supporter
3. Tell your colleagues about the importance of ARCUS
4. All Organizations and Individuals can join!

See www.arcus.org for more information





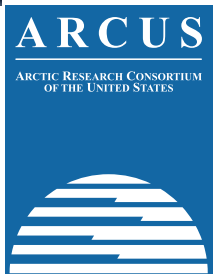
Thank You!



John Payne

President (2016-2017)

ARCUS Board (2013-2017)

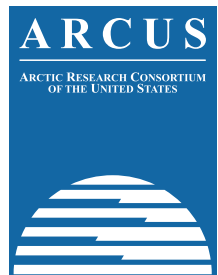




Thank You!



Craig Dorman
ARCUS Board (2014-2017)

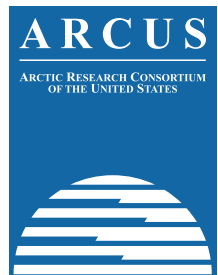




Thank You!



Gunnar Knapp
ARCUS Board (2014-2017)





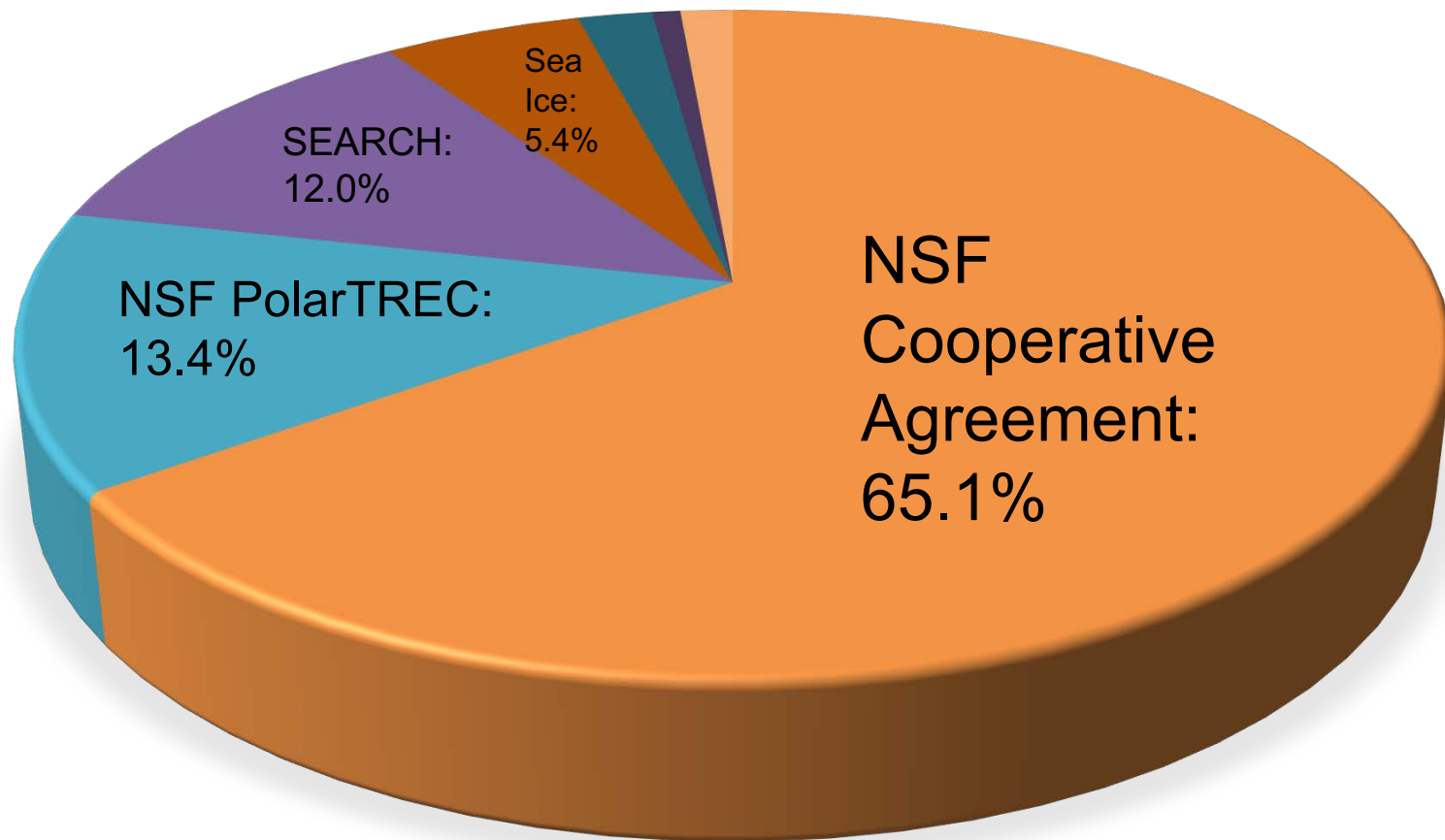
Highlights of ARCUS Finances

ARCUS
ARCTIC RESEARCH CONSORTIUM
OF THE UNITED STATES



Revenue by Source October 2015 - September 2016

The Arctic in the Classroom (2.0%)
ARCUS Unrestricted Funds (1.4%)
NASA (.8%)



Revenue by Source October 2016 - September 2017

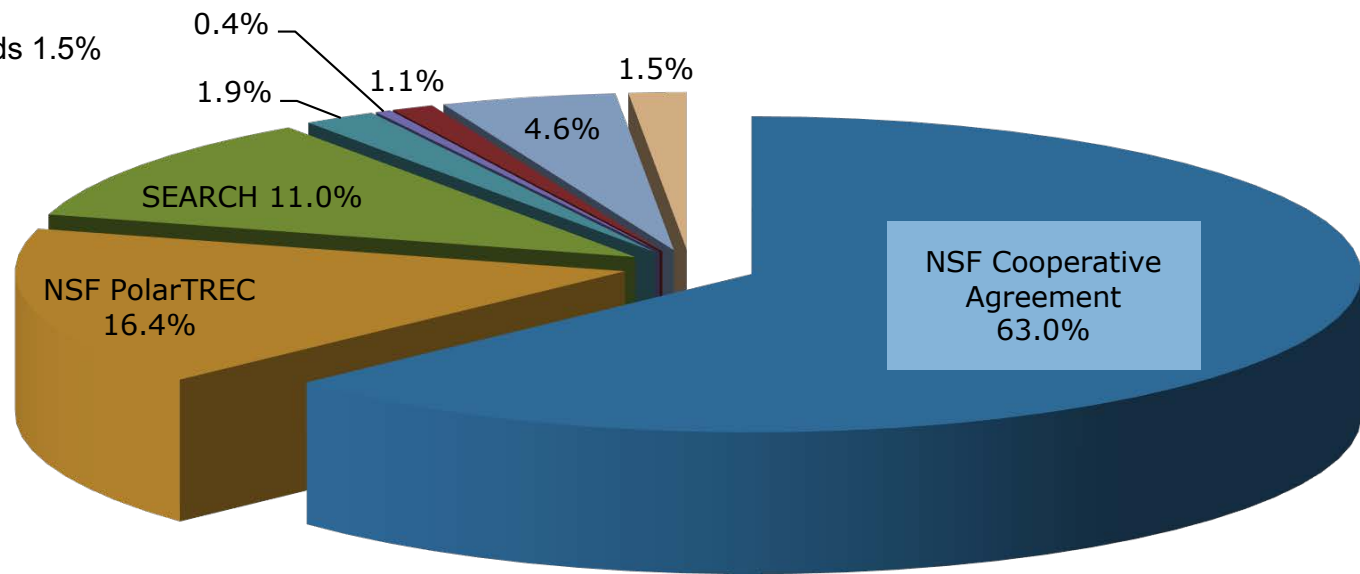
SEA ICE 1.9%

NASA 1.1%

Workshops. 4.65%

The Arctic in the Classroom .4%

ARCUS Unrestricted Funds 1.5%



ARCTIC RESEARCH CONSORTIUM OF THE U.S.

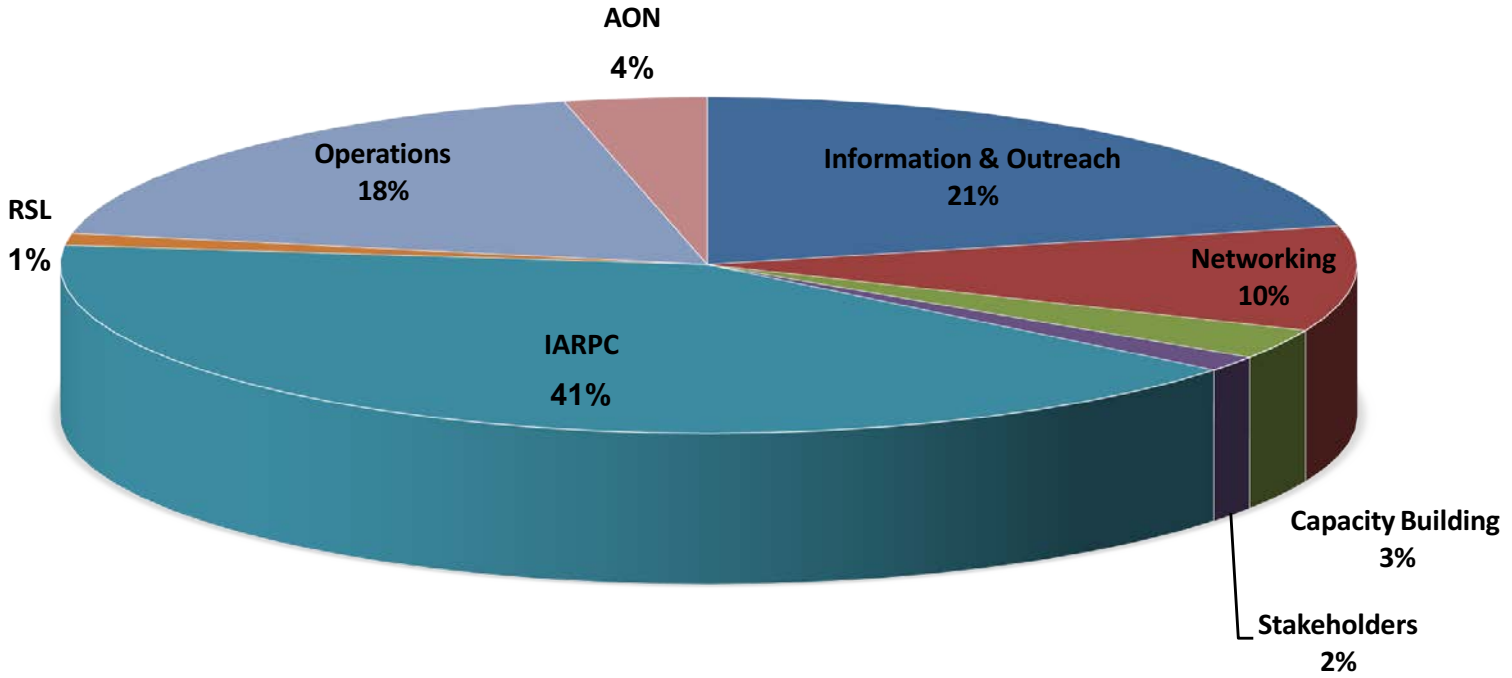
Available Funding

FUNDED:

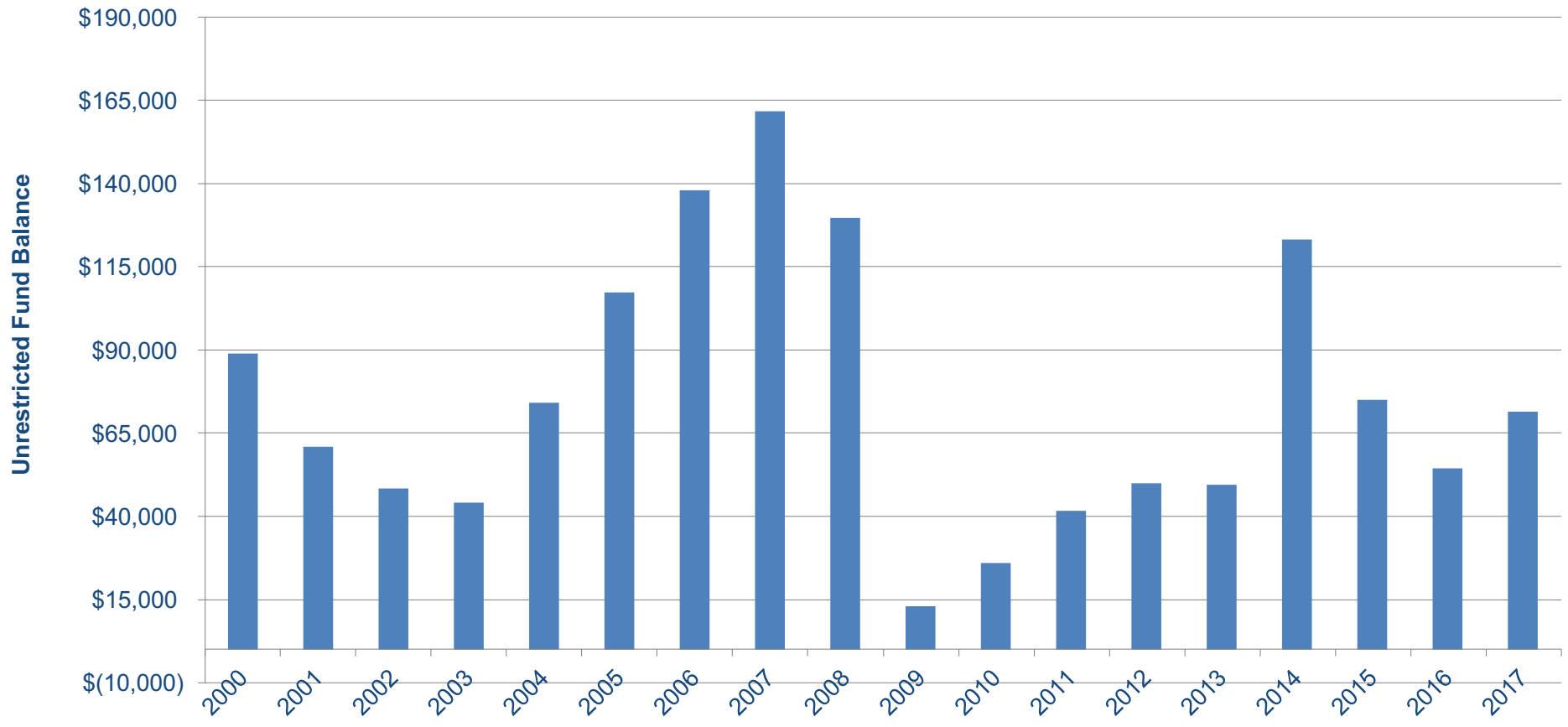
INCEPTION EXPIRATION

Cooperative Agreement=An Arctic Collaboratory for Science, Education, and Outreach	\$6,443,557	06/14 & 01/15 & 08/15 & 06/16 & 06/17	06/01/14	05/31/19
SEA ICE=Collaborative Research: An innovative network to improve sea ice prediction in a changing Arctic	\$435,591	06/13	06/15/13	12/31/17
SEARCH=Science Support for the Study of Environmental Arctic Change	\$1,038,525	08/14 & 03/16 & 01/17	08/15/14	07/31/20
PolarTREC	\$449,668	01/17	01/01/17	12/31/17
The Arctic in the Classroom	\$500,000	12/14	01/15	2019 +
NASA	\$26,619	02/17	02/17	12/31/17
	\$8,893,960			

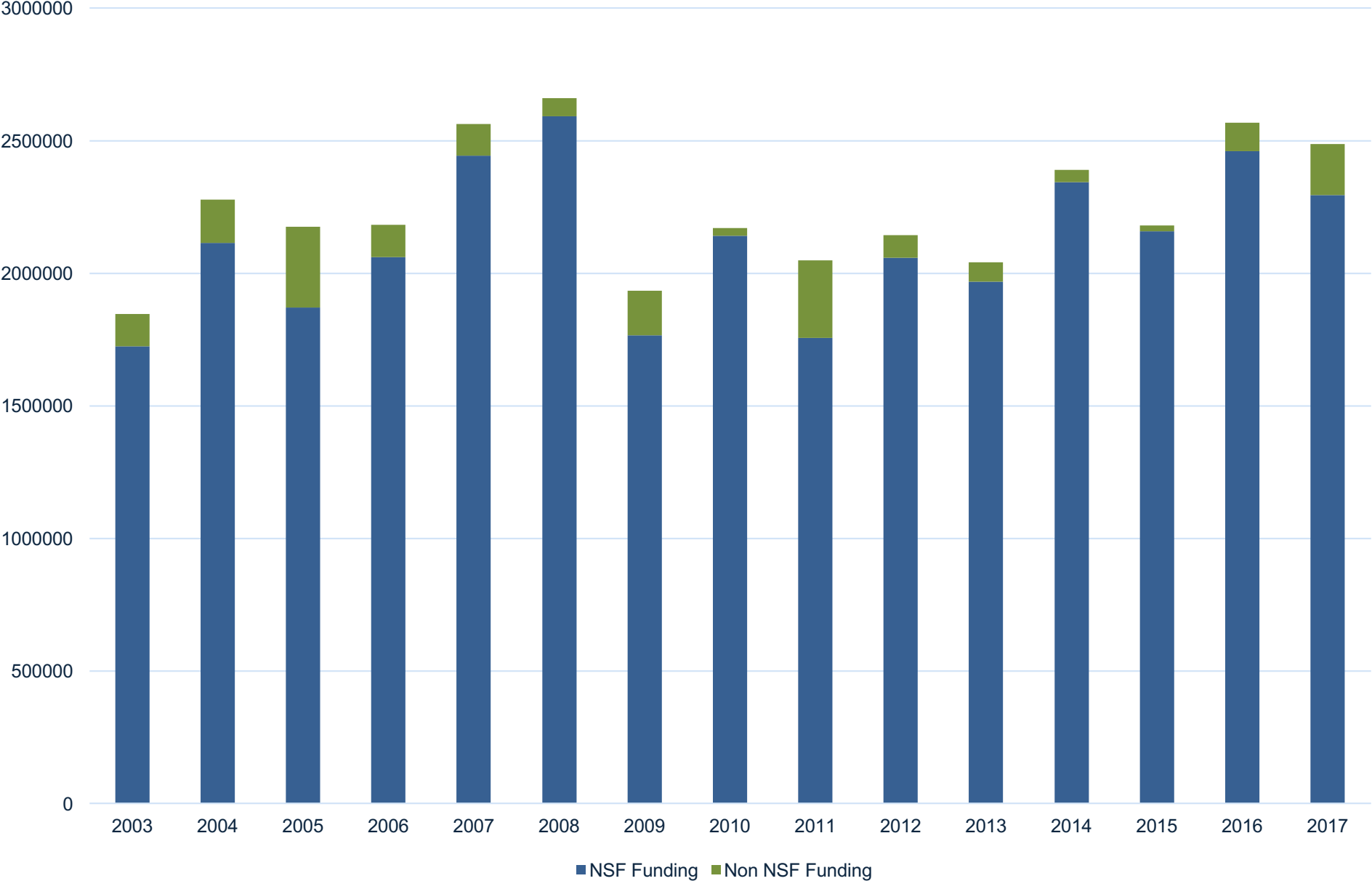
**Detail of 2014-2019
NSF Cooperative Agreement
By Task
as of 30 September 2017**



ARCUS Unrestricted Fund Balance 2000 - 2017 1 October to 30 September



NSF Funding compared to TOTAL funding



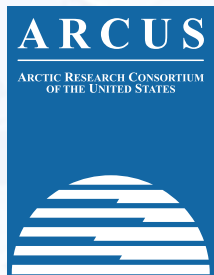
ARCUS: Connecting Arctic Research Since 1988

*What else 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.*



Welcome to the ARCUS Annual Meeting!



Connecting Arctic Research Since 1988

WHY THE ARCTIC?



Arctic Sea Ice Age
Every Week Since 1990

ICE911'S MISSION – ARCTIC RESTORATION TO STABILIZE WORLD CLIMATE

Reflective ice in the Arctic is crucial to the stability of Earth's climate.

Ice911 Research works to slow and reverse the loss of bright ice.

We work with climate modelers and in the field to develop solutions.

Climate is on the brink of runaway:

- Runaway heating in arctic

- Methane release

- Devastating sea level rise

Our mission is to be ready in time.

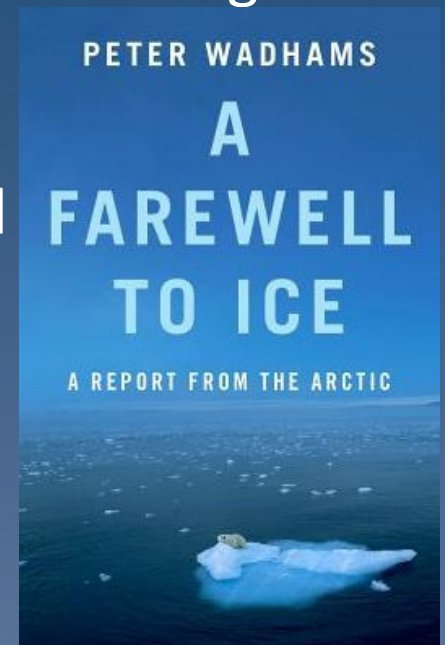


A FAREWELL TO ICE MEANS A CALL TO ARMS IT'S "ALL IN" NOW ON RESTORING THE ARCTIC

I have accepted the request to lead the Arctic Restoration Action Group

We'll help coordinate and evaluate proposed solutions including:

- Ice911 – Not only for sea ice but also for Greenland
- Ice thickening
- Marine Cloud Brightening
- Bright water
- ...



ARAG is working together worldwide for Arctic Restoration

Healthy Climate Alliance, 300x2050 and more look towards the Arctic

Welcome to the ARCUS Annual Meeting!



Connecting Arctic Research Since 1988

Asiaq



Asiaq from Greenlandic Mythology:
Mistress of the winds
and the weather.



KNUD RASMUSSEN KA
MYTER OG SAGN
FRA GRØNLAND

I
ØSTGRØNLÆNDERE

33.13

København
København
Gyldendals Landhandel
postboks 145
DK-2700 Næstved

Bind 1 af 2

GYLDENDALSKE BOGHADEL · NORDISK
FORLAG · KJØBENHAVN · KRISTIANIA
BERLIN · LONDON · MDCCCXXI

Asiaq

DER HERSKER OVER VÆJRET OG VINDENE

Der var engang en Storfanger, som boede ved Pikiutleq. Han havde kun eet Barn, en lille Dreng, som alle i Huset var glade og taknemlige for; særlig hans Bedstemoder holdt meget af ham, fordi han var opkaldt efter hendes afdøde Søn.

En Dag kom Storfangeren hjem med en Sæl, og da hans Kone skulde ned og flæse den, gav hun sin lille Søn til sin Moder, for at hun kunde passe ham imedens. Bedstemoderen sad nu hos ham og passede paa ham, indtil han begyndte at græde, og han blev ved med at græde saa voldsomt, at hun tilsidst raabte ud til sin Datter:

„Kom op og tag ham lidt! Han bliver ved med at græde, og jeg kan ikke faa ham til at tie.“

Den gamle Bedstemoder var blind, og da der kom nogen ind i Huset til hende, kunde hun ikke se, hvem det var. Hun troede blot, det var hendes Datter, der kom ind og sagde: „Vær saa god, læg ham saa i min Amaut!“ Men næppe havde hun gjort det, før hun i det samme mærkede, at Ryggen var hul, der gik ligesom en stor Kløft ned gennem den. Forgæves raabte hun, saa højt hun kunde:

„Jeg er kommen til at lægge ham ned i en fremmed Amaut, og for sent mærkede jeg, at Ryggen var hul paa den, som hentede ham!“

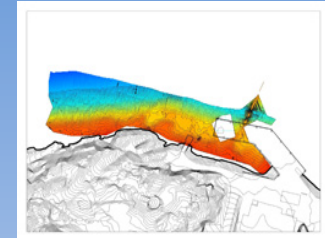
I det samme kom Datteren selv ind for at hente sit lille Barn, men det var forlængst bortført. De søgte og søgte alle Vegne, men fandt det aldrig og sørgede til deres Dages Ende over den lille Dreng, der var bleven stjaalet fra dem.

ASIAQ
GREENLAND SURVEY



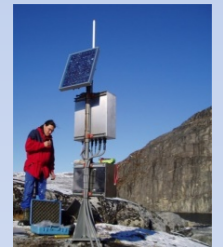
Land Surveying and Geotechnics

- Digital surface and terrain models
- Bathymetry of lakes and coastal areas
- Maintenance and registration of known points
- Geophysical and geotechnical measurements on land and sea



Climate and hydrology

- Construction of weather and hydrology stations
- Measuring and monitoring of climate parameters and hydrology
- Quality assured series maintained in database
- Statistical analyses
- Assessment of water resources and hydrological modelling



Mapping and remote sensing

- Technical maps of the inhabited areas
- Mapping and classification of the open land



Research topics

Atmosphere

- Climate gradients
- Boundary layer stability
- Energy balance gradients

Water

- Fresh water input to fjords – in a changing climate
- GLOFs
- Coastline definition
- Tides, bathymetry, currents, mean sea level.

Snow and Ice

- Mass balance (gradients)
- Superimposed ice
- Rock glacier monitoring
- Advancing ice margin N-GL
- Extreme events (avalanches 2016)

Remote sensing

- Coastal characterisation NE-Greenland
- Walrus population assessment NE-Greenland
- ESA GlobPermafrost (end user)



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