



ARCUS: Connecting Arctic Research Across Boundaries Since 1988

**PROJECT MANAGEMENT
FOR ARCTIC RESEARCH AND DECISION
MAKING:
CRITICAL INSIGHTS FROM THE
ARCTIC RESEARCH CONSORTIUM OF THE UNITED
STATES (ARCUS)**



Robert H. Rich, Brit Myers, Lisa Sheffield Guy, Betsy Turner-Bogren, Janet Warburton, Helen Wiggins

Photo by Leslie Pierce (PolarTREC 2005), Courtesy of ARCUS

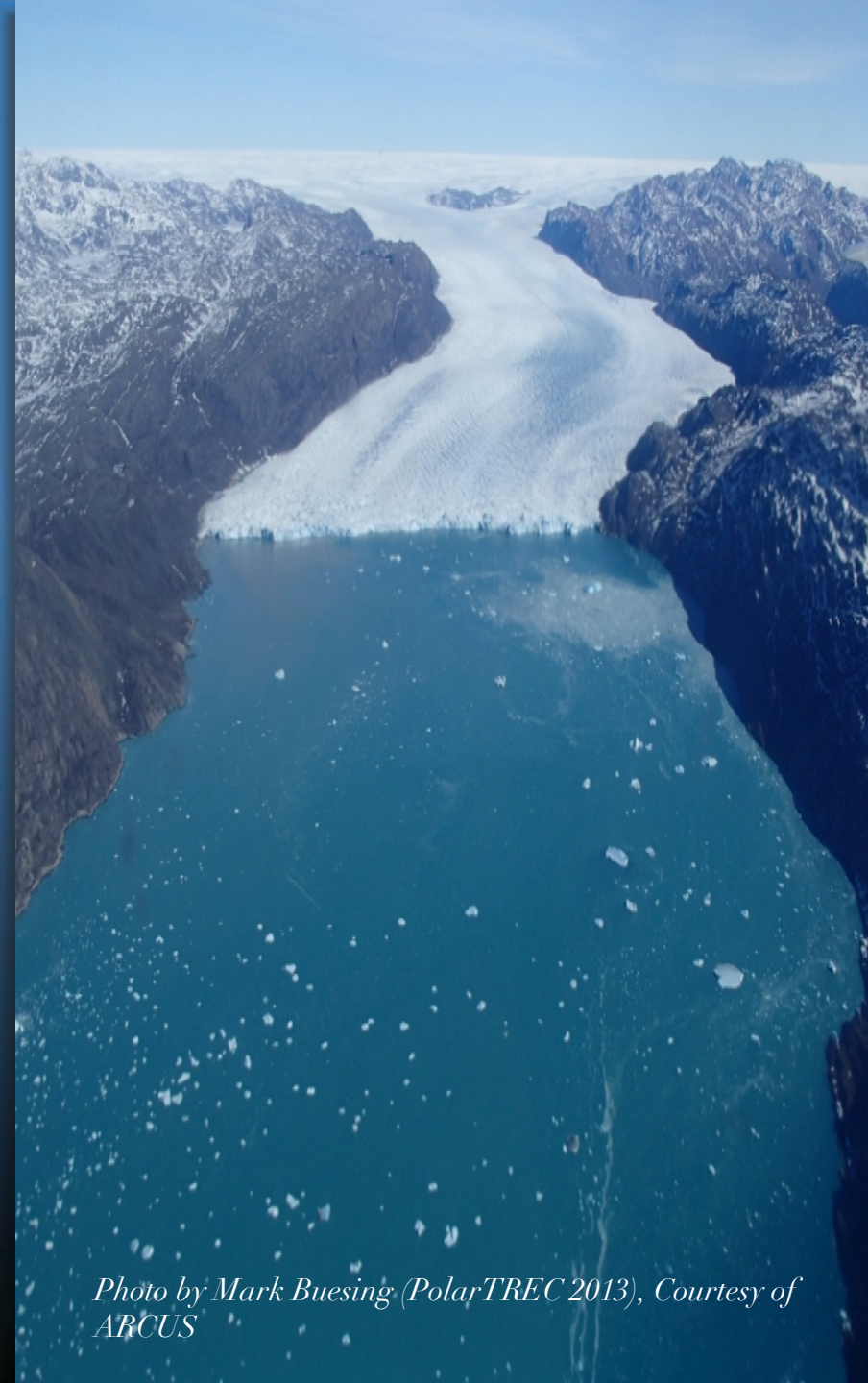
WHAT TO EXPECT

Our story

An integrated project
management model

What we have learned

How we do it



*Photo by Mark Buesing (PolarTREC 2013), Courtesy of
ARCUS*

OUR STORY



Photos by Joed Polly and ARCUS Staff, Courtesy of ARCUS

ARCUS VISION

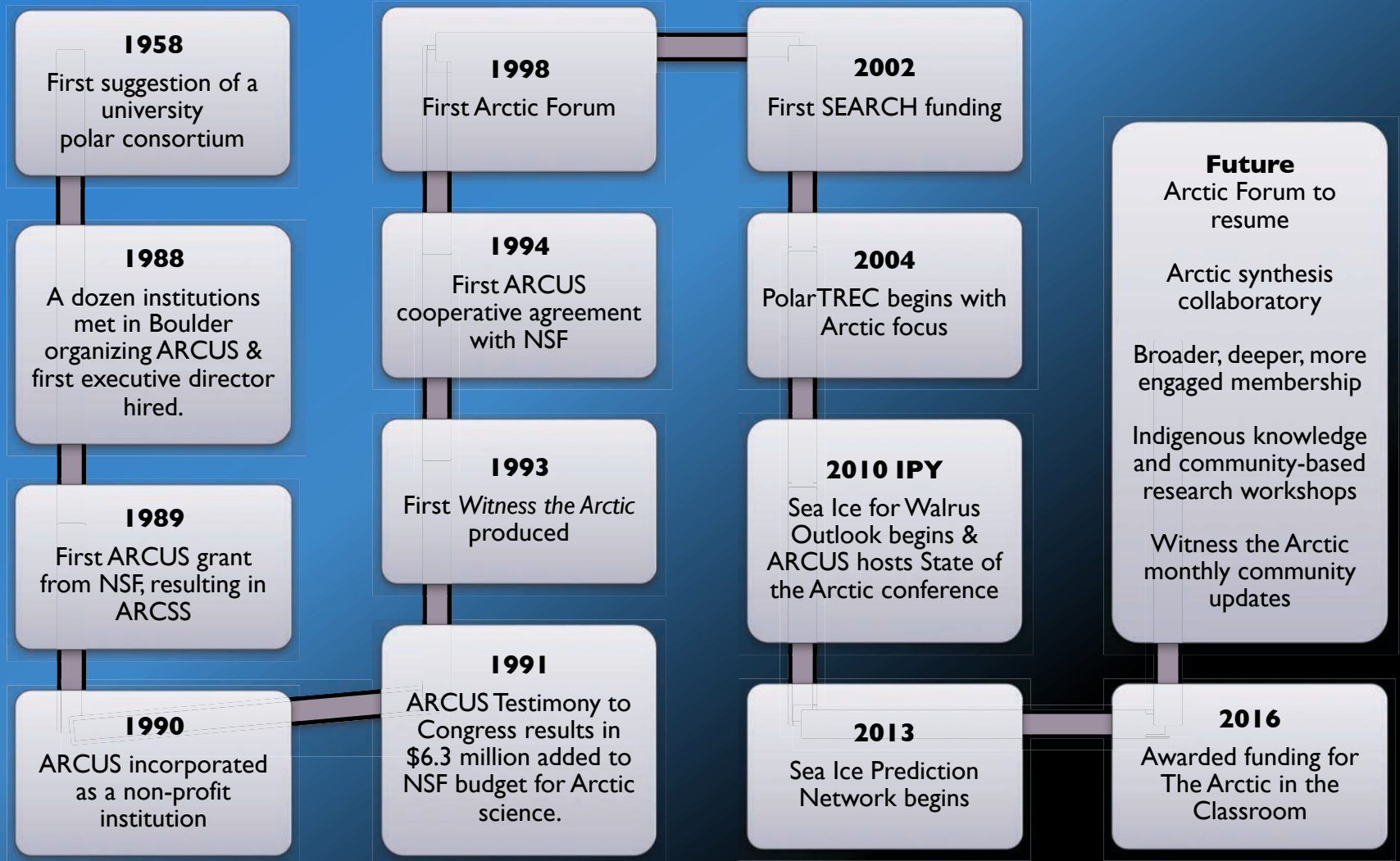
“ARCUS: Where Arctic Research Connects”

Communication
Coordination
Collaboration



Photos left to right: Chantelle Rose, Jim Miller, and Elizabeth Eubanks (PolarTREC), Courtesy of ARCUS

ARCUS HISTORY



PMI
Project Management Institute
GLOBAL STANDARD

A Guide to the
**PROJECT MANAGEMENT
BODY OF KNOWLEDGE
(PMBOK® GUIDE)**

Fifth Edition

**AN
INTEGRATED
MODEL OF
PROJECT
MANAGEMENT**

WHY DO WE NEED THIS MODEL?

Arctic Research &
Education are:

- Inter- and transdisciplinary
- Highly Collaborative across sectors
- Less Controlled
- Crosses geography and cultures



*Photo by Bill Schmoker (PolarTREC 2015) Courtesy of
ARCUS*

PROJECT MANAGEMENT

ARCUS Model



Agile Project
Management



Resources

- Funding, Staff time, Skill sets



Virtual/Distributed
Organizations



Team Science &
Group Dynamics



Strategic
Planning

AGILE PROJECT MANAGEMENT

- Use many techniques from discipline of project management
- Agile project management = more flexible & interactive

Photo by Paula Dell (PolarTREC 2013) Courtesy of ARCUS



RESOURCES

- Funding
- Time
- Skillsets



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

VIRTUAL & DISTRIBUTED ORGANIZATIONS

- Arctic science & education communities are distributed
- Need to understand characteristics of successful “Virtual Organizations”





TEAM SCIENCE & GROUP DYNAMICS

- A growing body of literature on characteristics of successful science teams

Photo by Ken Williams (PolarTREC 2013), Courtesy of ARCUS

STRATEGIC PLANNING

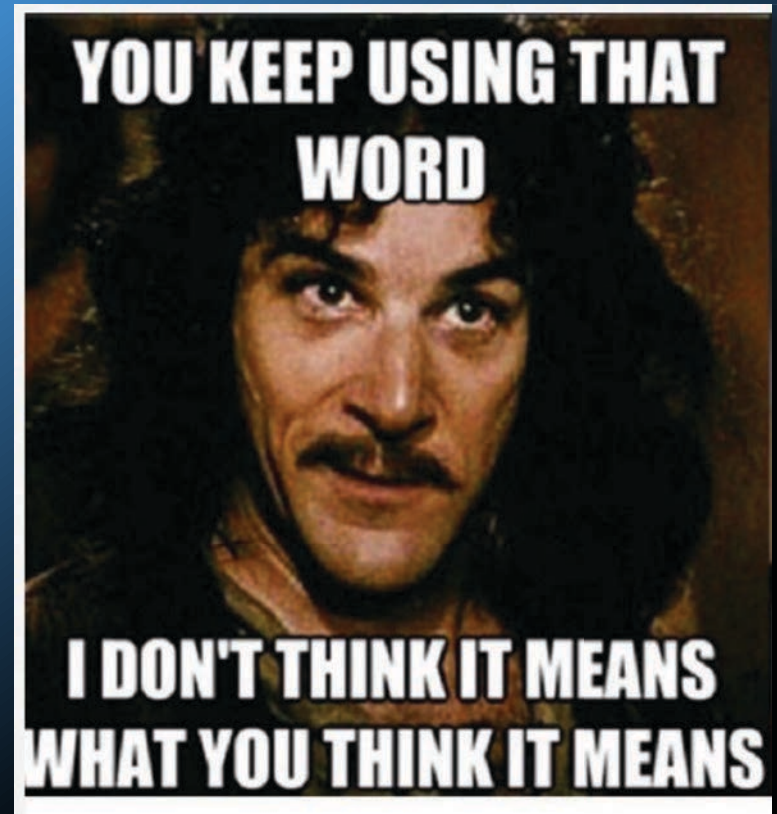
- Keep the big-picture vision and goals in mind

Photo by Elizabeth Eubanks (PolarTREC 2008), Courtesy of ARCUS



WHAT WE HAVE LEARNED

1. Cultural
2. Language
3. Shared Expectations
4. Embedded Assumptions
5. Ephemeral Nature of Funding
6. Need to Patch Together
Evolving Emphasis to
Reach Big Goals



WHAT WE HAVE TO DO

1. Know the cultural landscape
2. Have worked with different knowledge communities
3. Clarify expectations at the outset
4. Refuse to assume
5. Include project managers w/interdisciplinary skills
6. Have funding contingency plans
7. Plan for project management explicitly early on
8. Have staying power and a long history of working to connect Arctic research

THANK YOU

QUESTIONS?



*We are here to help you to connect and succeed in all
your projects!*

www.arcus.org
bob@arcus.org

Photo by Melissa Barker (PolarTREC 2012), Courtesy of ARCUS