



ARCSS All Hands Workshop
Seattle, WA
February 20-23, 2002



WELCOME!



Arctic System Science Program

Hallmarks of the original ARCSS

System science approach (USGCRP Project)

Modest level of national/international partnerships

Science Management Offices (SMOs) and Science Project
Offices (SPOs)

Science Steering Committees (SSC)

Annual PI meetings for coordination, planning

ARCSS Data Coordination Center (ADCC)

ARCSS Committee (AC) led by ARCUS

Annual meetings to identify integration opportunities

All Hands Workshop in 1996

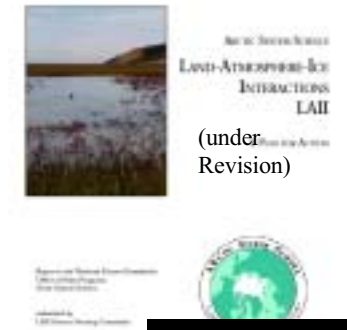


The Old Multidisciplinary ARCSS Components

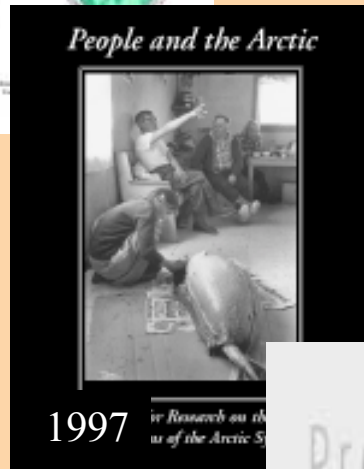
- **OAI** – Ocean Atmosphere Ice Interactions:
(NEW, IWA, AOS, SHEBA, SBI, SEARCH)
- **LAII** – Land Atmosphere Ice Interactions:
(Flux, ITEX, ATLAS)
- **Paleoenvironmental studies**
(GISP2, PALE, PARCS)
- **HARC** – Human dimensions of the Arctic system.
- **RAISE** – Russian American Initiative on Shelf-land Environments in the Arctic.



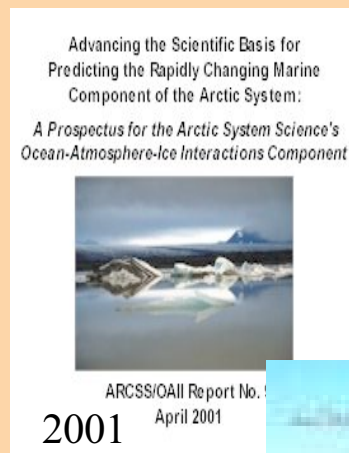
Planning documents



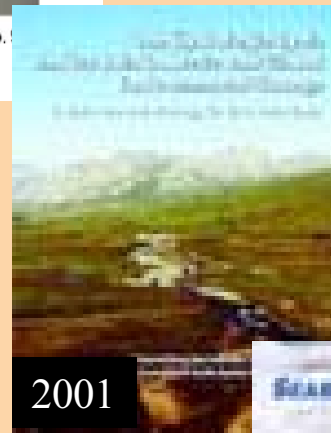
1997



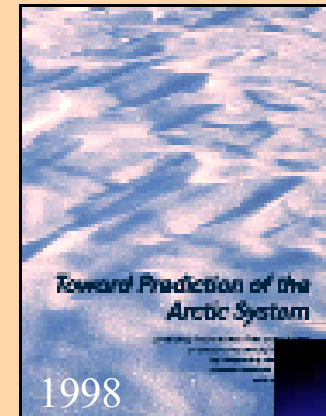
1997



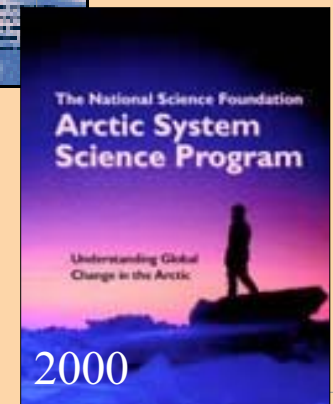
2001



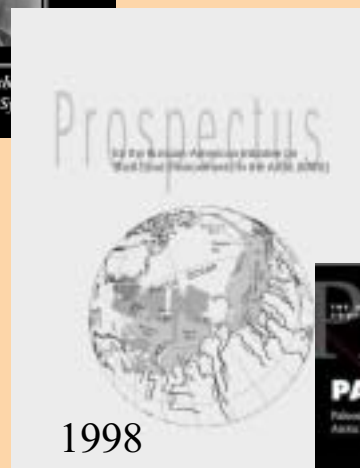
2001



1998



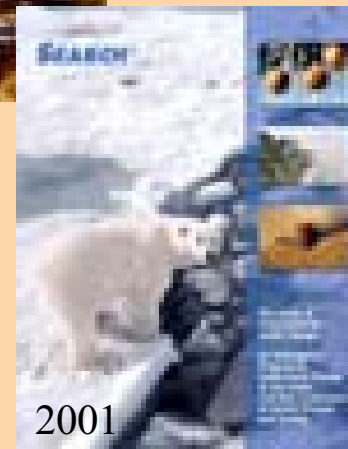
2000



1998



1999

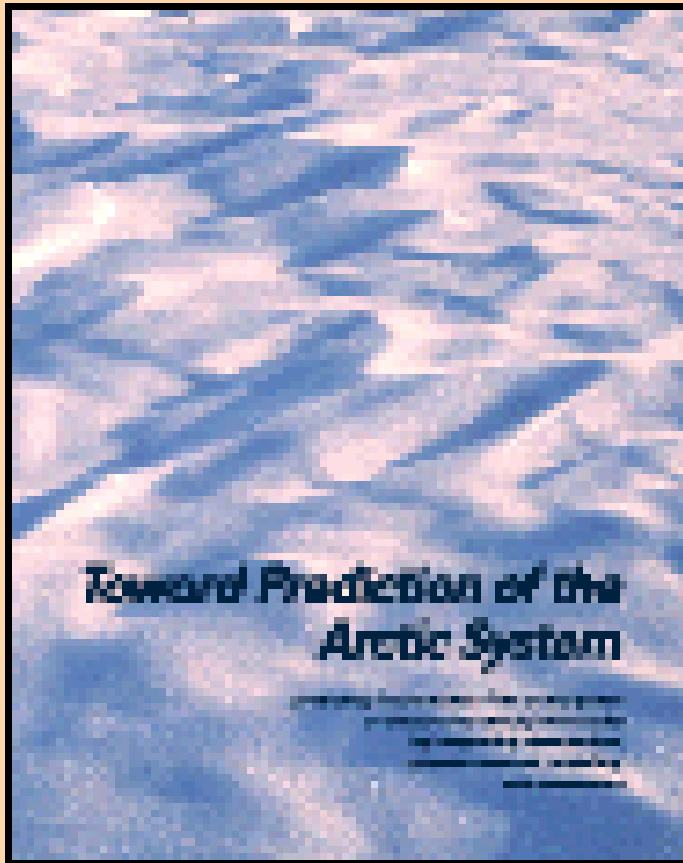


2001



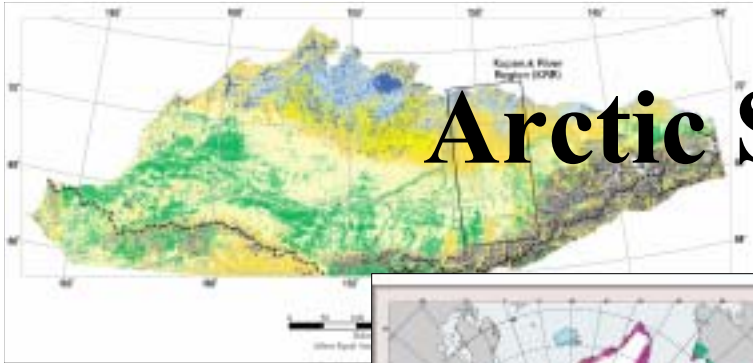
Arctic System Science Program

The New Thematic ARCSS



- Future of decadal-scale environmental change;
- Ecosystem-human interactions with change;
- Biogeochemical cycles and feedbacks;
- Hydrological cycle and feedbacks;
- Detecting change.





Arctic System

ARCSS

Arctic System

Arctic System

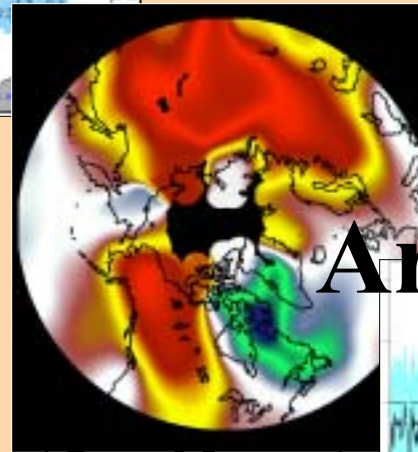
Arctic System

Arctic System

Arctic System

GOAL:

Understanding the Arctic System as a system



Arctic System

It's the Arctic System, stupid



Arctic System Science Program



What ARCSS is not

- It is not the arctic climate program
- It is not the arctic interdisciplinary program
- It is not the system science program
- It is not the arctic career funding program
- It generally is not the small project program
- It is not the fund anything that appears in a science plan program



The Evolving ARCSS Planning



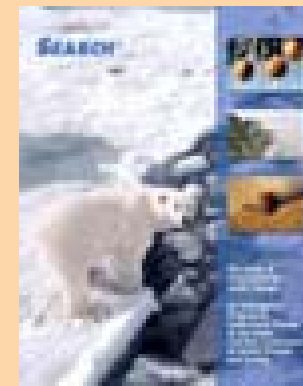
Developing
Focused
Project(s)



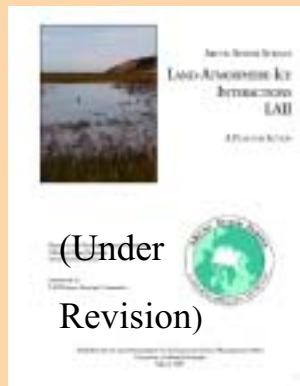
Developing
Focused
Project(s)



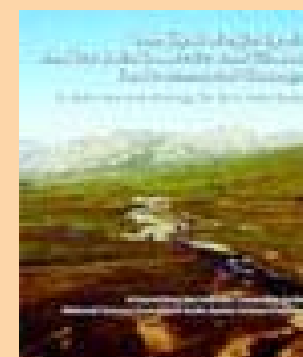
Developing
Focused
Project



Evolving into
Multiagency
project



Focusing on Bio-
Complexity in
the Environment



SEARCH-ASOF-CHAMP

Solicitation
NSF-02-071

Proposals due: 6/3



Arctic System Science Program

Hallmarks of the Thematic ARCSS

- Coordinated, Interdisciplinary, Arctic system approach
- SSCs, SMOs, SPOs provide management:
 - ~Annual coordination meetings, future planning, outreach, assist with data compliance, promote increasing national and international partnerships.
- ADCC serves as permanent data archive.
- UCAR Joint Office of Science Support (JOSS):
 - Operational and/or project level data management;
 - Transfer data into ADCC archive.
- AC promotes integration and outreach activities:
 - Annual meetings of ARCSS leadership;
 - All Hands Workshop in 2002.

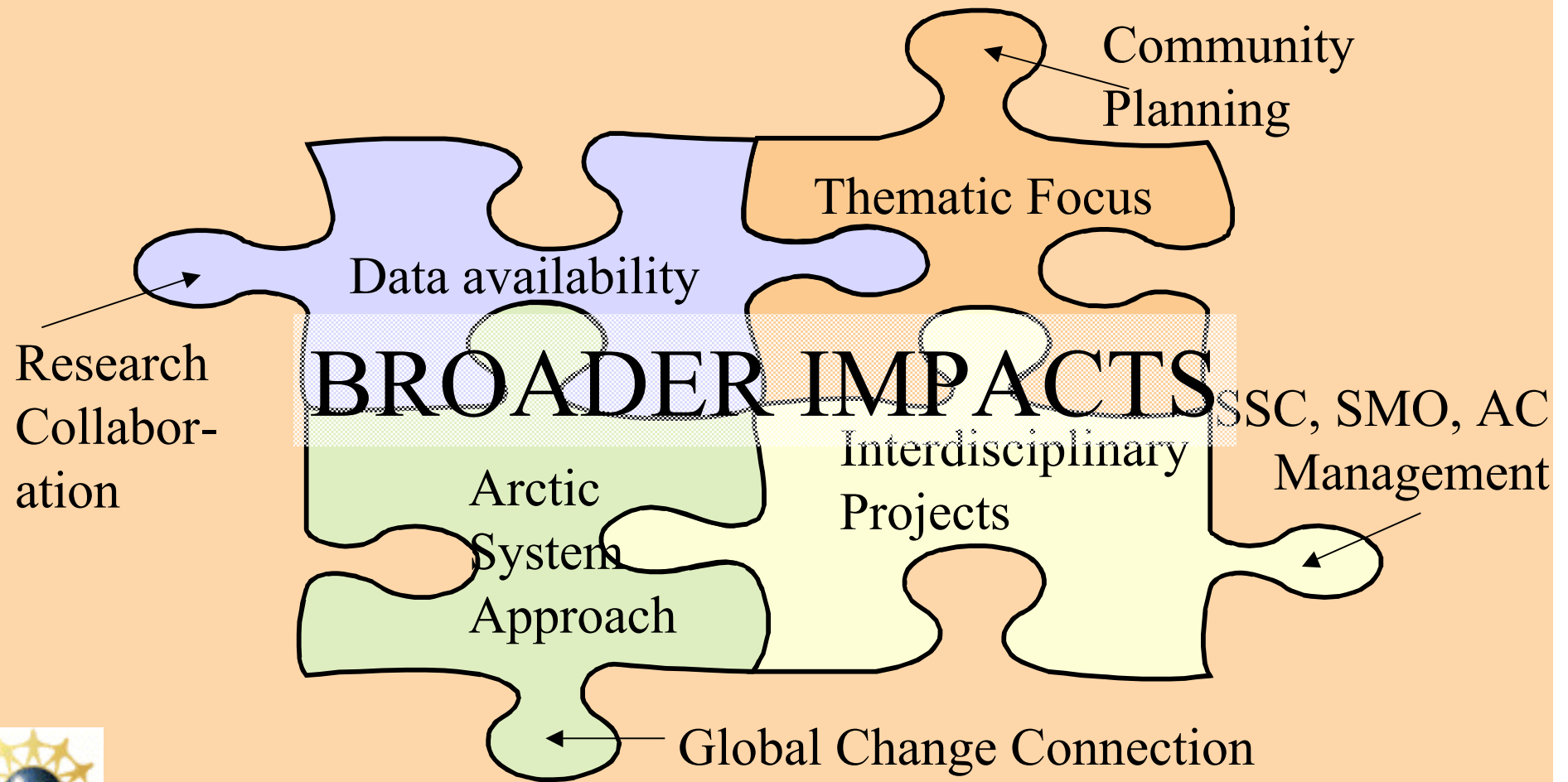


How are ARCSS projects supported?

- **ARCSS works with SSCs and AC to identify large-scale science opportunities with ARCSS goals:**
 - Solicitation is published by NSF that reflects advice given;
 - Proposals reviewed for meritorious science, outreach **and** potential for project synergy;
 - PIs of well-reviewed proposals meet to establish the synergy derived from coordination (i.e. sum is greater than the parts).
- **About 10% of funds directed to unsolicited projects.**
- **Compliance with data policy and NSF outreach goals are heavily stressed if project is to continue**



Assembling the ARCSS Puzzle - Together



Arctic System Science Program

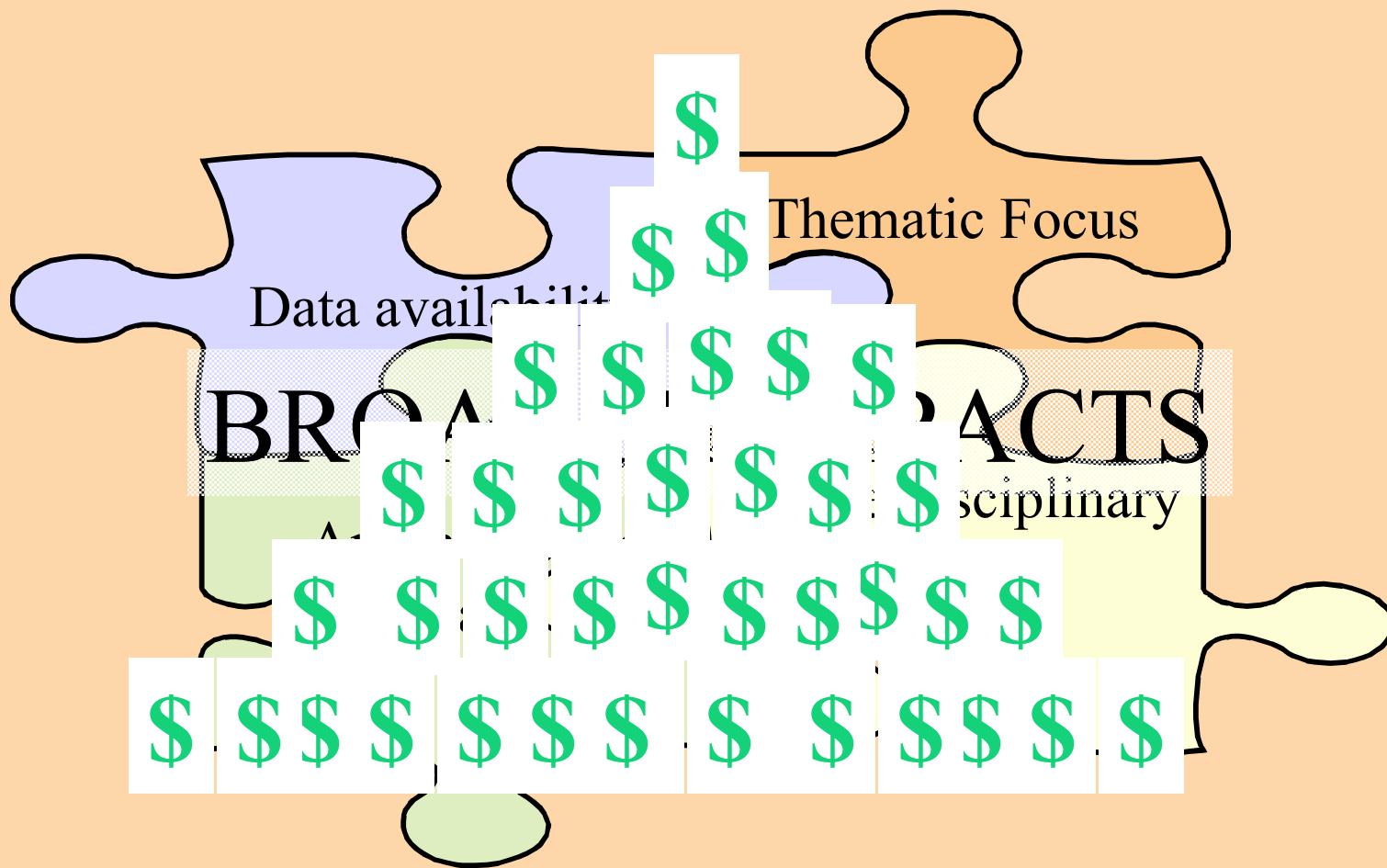
How not to assemble the ARCSS puzzle

- Disciplinary-only focus
- Platform-specific focus
- Site-specific focus
- Technique-specific focus
- Absence of future-focus
- With a me-first focus





Arctic System Science Program



What we need from you this week

- FILL-IN-THE-GAPS THINKING!
- INTERDISCIPLINARY FOCUS!
- INPUT FROM STUDENTS IMPORTANT!
- LOTS OF LOUD HMMMMMMMMMMMM!

ARCTIC SYSTEM ARCTIC SYSTEM
ARCTIC SYSTEM
ARCTIC SYSTEM ARCTIC SYSTEM

