

SEARCH Study of Environmental Arctic Change

Science Steering Committee (SSC) eMeeting 19 August 2009

http://www.arcus.org/SEARCH/index.php

eMeeting Agenda

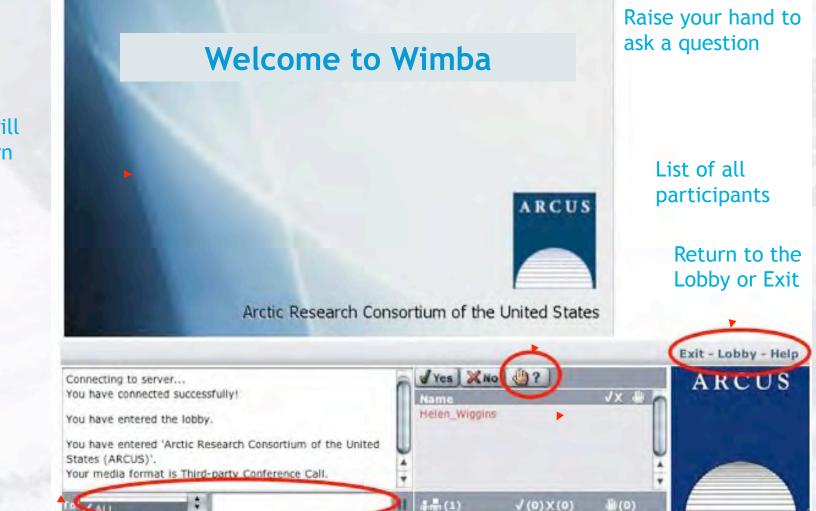
- Overall SEARCH Status
- Status of SEARCH Components: Observing, Understanding, Responding to Change
- State of the Arctic Conference
- Informational Items
 - Sea Ice Outlook
 - Understanding Change Workshop: 2010
 - International Study of Arctic Change (ISAC)
 - Sustained Arctic Observing Network (SAON)
 - Organization of Projects on Environmental Research in the Arctic (OPERA)
 - Arctic Environmental Change Program Network
 - SSC Membership



Wimba Interface

Slides will be shown here

"Chat" with one person or the entire group



Slides, audio, and group chat will be archived

SEARCH Status Overview

Overall SEARCH Status







Status of SEARCH Implementation Areas

- Observing Change: Arctic Observing Network (AON)
- Understanding Change and ARCSS/ SEARCH Collaboration
- Responding to Change





Arctic Observing Network (AON)

guidance

Parsing, translation &

Scientific planning

Paleo-

Science questions

ISAC Steering Group & **ISAC Science ISAC Science** International overarching Council Questions 5-9* **Questions 1-5** coordination (iSAON, ?) Interagency & international coordination, Arctic-global **SEARCH Science SEARCH Science** National implementation linkages Questions 1-5, 7 Questions 3, 6, 7* efforts (SIW Report, ArcticNet, DAMOCLES, ??) Themes & disciplines Terr'l **Atmosphere** ecosystems

International & national working groups & workshops (IABP, OceanObs 2009, CliC Sea Ice Working Group, ??)

Implementation

& program design

Interdisciplinary integration Human dimensions Regional coordination Environm't

Projects

Hydrology/

cryosphere

Ocean/sea ice



Marine resources/

ecosystems

SEARCH OCP & UCP, AON PIs, IPMC Coordination of measurement efforts (siting, sampling rate, etc.), interdisciplinary integration, interagency coordination

AON projects, Agency-driven programs etc.

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State of the Arctic Conference (I)

16–19 March 2010 • Miami, Florida http://soa.arcus.org/

 Will provide an open international forum for discussion of future research directions aimed to a better understanding of the arctic system and trajectory



- Topics will range from basic understanding of the Arctic system and its change to developing response strategies to adapt and mitigate change
- Expecting 800 1,000 participants



State of the Arctic Conference (II)

16–19 March 2010 • Miami, Florida http://soa.arcus.org/

Main science themes:

- **1. Advances in arctic system understanding** the basic functioning of the arctic system, including human subsystems;
- Arctic change rapid, system-scale changes and the capability to project future states of the arctic system under various scenarios;
- **3. Linkages to the Earth system** linkages and feedbacks between the arctic system and the Earth system; and

ARCSS

4. Translating research into solutions - informed solutions to the problems caused by human-induced environmental change.

ArcticNet

ARCUS

State of the Arctic Conference (III)

16–19 March 2010 • Miami, Florida http://soa.arcus.org/

- Planning completed to-date
- Opportunities for input:
 - Products
 - Topics and sessions
 - Keynote speakers and lead science speakers
 - Other ideas



Informational Items (I)

Sea Ice Outlook

- 2009 Sea Ice Outlook underway: http://www.arcus.org/search/seaiceoutlook/index.php
- Understanding Change Workshop: 2010
- International Study of Arctic Change (ISAC)
 - http://www.arcticchange.org/
 - http://www.arcticchange.org/isac2009/attachments/ 098_ISAC%20Science%20Plan%2030%20March %2009a.pdf
- Sustained Arctic Observing Network (SAON)
 - http://www.arcticobserving.org/

Informational Items (II)

NSF Program Solicitation: Organization of Projects on Environmental Research in the Arctic (OPERA)

- http://www.nsf.gov/pubs/2009/nsf09599/nsf09599.htm
- Seeks proposals for activities to foster and sustain collaboration among projects funded by NSF that contribute to the US arctic environmental change research effort.
- Components: (1) Overall support of the US SEARCH effort, (2) Leadership of the US portion of an Arctic Observing Network, (3) Leadership of efforts in Understanding Arctic Change, (4) Management of Arctic Data, (5) Responding to Change component of SEARCH

Informational Items (III)

- Arctic Environmental Change Program Network
- SSC Membership



Wrap-Up and Next Steps

- eMeeting archive and notes circulated after meeting
- Schedule next SSC meeting
- Other items



Thank You!





A view of a glacier near Thule, Greenland. Photo by John Sode (TREC 2005), Courtesy of ARCUS