## October 2007 ARCSS Synthesis Workshop| Agenda

The ARCSS Synthesis Workshop will be streamed via webcast.

10:30 a.m.-12:30 p.m. ARCSS Committee Meeting Open Community Session (Salon A/B)

10:30 a.m	12:30 p.m. <u>ARCSS Committee Meeting Open Community Session</u> (Salon A/B)
Tuesday, 2	October 2007 (Salon A/B, Lobby Level)
2:00 p.m.	Welcome and Introductions Don Perovich, ARCSS Committee Member, SASS PI
2:15 p.m.	NSF ARCSS Program Goals and Expectations for ARCSS Synthesis Neil Swanberg, ARCSS Program Director
2:30 p.m.	An Overview of ARCSS: Past, Present, and Future Josh Schimel, ARCSS Committee Chair
THE STATE	OF ARCSS SYNTHESIS: CONTEXT FOR THE WORKSHOP
2:50 p.m.	Overview of SASS and SASS I Ideas for Synthesis Approaches Don Perovich, ARCSS Committee Member, SASS PI
3:15 p.m.	BREAK
Upcoming S	Science Planning Activities
3:35 p.m.	A Synthesis of the Last 2000 Years of Climatic Variability from Arctic Lakes: ARCSS "2 kyr" Project <i>Raymond Bradley, University of Massachusetts</i>
4:00 p.m.	Freshwater Integration (FWI) Synthesis Larry Hinzman, International Arctic Research Center (IARC)
4:25 p.m.	Study of the Northern Alaska Coastal System (SNACS) Matthew Sturm, Cold Regions Research and Engineering Laboratory (CRREL)
4:50 p.m.	Human Dimensions in ARCSS Synthesis: Overview of HARC Workshop Maribeth Murray, University of Alaska Fairbanks, HARC Core Office Director
5:15 p.m.	Shelf-Basin Interactions (SBI) Synthesis Robert Campbell, University of Rhode Island
5:40 p.m.	Group Discussion: ARCSS Synthesis and Goals for the Workshop
6:00 p.m.	Poster Session and Reception (Atrium and Carter Room)
Wednesday	, 3 October Wednesday, 3 October 2007 (Salon A/B, Lobby Level)
Full complim	entary hotel breakfast available 7:00 a.m. (Breakfast Area, Lobby Level)
8:00 a.m.	Continental breakfast available outside meeting room
8:30 a.m.	Review of Day 1 and Day's Goal
SASS I: SHO	ORT PROJECT PRESENTATIONS (9 PROJECTS)
8:45 a.m.	A Heat Budget Analysis of the Arctic Climate System Mike Steele, University of Washington
8:55 a.m.	Sunlight and the Arctic Atmosphere-Ice-Ocean System Don Perovich, Cold Regions Research and Engineering Laboratory (CRREL)
9:05 a.m.	Synthesis of Modes of Ocean-Ice-Atmosphere Covariability in the Arctic System from Multivariate Century- Scale Observations Martin Miles, Environmental Systems Analysis Research Center (ESARC)
9:15 a.m.	Arctic Surface Air Temperatures for the Past 100 years: Analysis and Reconstruction of an Integrated Data Set for Arctic System Science Harry Stern, University of Washington
9:25 a.m.	Synthesis of Arctic System Carbon Cycle Research Through Model-Data Fusion Studies Using Atmospheric Inversion and Process-Based Approaches A. David McGuire, University of Alaska Fairbanks
9:35 a.m.	Greening of the Arctic-Synthesis and Models to Examine the Effects of Climate, Sea-Ice, and Terrain on Circumpolar Vegetation Changes

Skip Walker, University of Alaska Fairbanks

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9:45 a.m.	A Synthesis of Rapid Meltwater and Ice Discharge Changes: Large Forcings from the Ice with Impacts on Global Sea Level and North Atlantic Freshwater Budgets			
	Mark Fahnestock, University of New Hampshire			
9:55 a.m.	Humans and Hydrology at High Latitudes Richard Lammers, University of New Hampshire			
10:05 a.m.	Heterogeneity and Resilience of Human-Rangifer Systems: A Circumpolar Social-Ecological Synthesis Gary Kofinas, University of Alaska Fairbanks			
10:15 a.m.	Brief Discussion on SASS I Projects			
10:25 a.m.	BREAK			
SASS II: SHORT PROJECT PRESENTATIONS (8 PROJECTS)				
10:45 a.m.	The Roles of Clouds and their Accomplices in Modulating the Trajectory of the Arctic System Jennifer Francis, Rutgers University			
10:55 a.m.	Toward Reanalysis of the Arctic Climate System - Sea Ice and Ocean Reconstruction with Data Assimilation Andrey Proshutinsky, Woods Hole Oceanographic Institution			
11:05 a.m.	Producing an Updated Synthesis of the Arctic's Marine Primary Production Regime and Its Controls Patricia Matrai, Bigelow Laboratory for Ocean Sciences			
11:15 a.m.	The Impact of Changes in Arctic Sea Ice on the Marine Planktonic Ecosystem - Synthesis and Modeling of Retrospective and Future Conditions <i>Jinlun Zhang, University of Washington</i>			
11:25 a.m.	Climate Response to Future Changes in Arctic Snow Cover and Sea Ice: A New Perspective from the High-Resolution NCAR CCSM3 <i>Clara Deser, National Center for Atmospheric Research</i>			
11:35 a.m.	The White Arctic: A Snow-Impacts Synthesis for the Terrestrial Arctic Christopher Hiemstra, Colorado State University			
11:45 a.m.	Understanding Change in the Climate and Hydrology of the Arctic Land Region: Synthesizing the Results of the ARCSS Fresh Water Initiative Projects <i>Eric Wood, Princeton University</i>			
11:55 a.m.	Synthesis of Sea Ice, Climate, and Human Systems in the Arctic and Subarctic (SYNICE) Astrid Ogilvie, University of Colorado			
12:05 p.m.	LUNCH Buffet (Salon A/B Atrium)			
CROSS-PROJE	ECT COORDINATION AND SYNTHESIS			
1:00 p.m.	Group Discussion			
	<ul><li>Ideas for Cross-project Coordination and Synthesis</li><li>Ideas for Break-out Group Topics</li></ul>			
2:00 p.m.	BREAK			
2:30 p.m.	Break-out Groups			
4:00 p.m.	Break-out Group Reports and Plenary Discussion			
5:30 p.m.	Meeting Adjourns for Day			
Thursday, 4 October 2007 (Salon A/B, Lobby Level)				
Full complimentary hotel breakfast available 7:00 a.m. (Breakfast Area, Lobby Level)				
8:00 a.m.	Continental breakfast available outside meeting room			
8:30 a.m.	Plenary Discussion: Review of Day 2, Day's Goal, and Break-out Group Charge			
8:45 a.m.	Break-out Groups			
10:00 a.m.	BREAK			
10:30 a.m	Break-out Groups (Continued)			
12:30 p.m.	LUNCH Buffet (Salon A/B Atrium)			
1:30 p.m.	Plenary Discussion: Reports from Break-out Groups, Discussion on Final Break-out Group Topics on Approaches to Coordination			

2:00 p.m.	Break-out Groups	U
3:00 p.m.	BREAK	
4:00 p.m.	Plenary Discussion on Approaches to Coordination and Next Steps	
5:00 p.m.	Meeting Adjourns	

Friday, 5 October

Human Dimensions of the Arctic System (HARC) Synthesis Workshop (Salon A/B)