



Workshop Agenda

June 14-16, 2006
Fairbanks, Alaska

2006 Polar and Global Climate Modeling:
Connection and Interplay

Theme 1	Climate Modeling and Diagnostic Studies
Theme 2	Processes Studies and Pan-Arctic Models
Theme 3	Climate Change Simulations and Projections
IARC - JAMSTEC Research Project Review	

WEDNESDAY, June 14, 2006 (IARC 401)

8:30 am - 8:50 am	<p>Opening remarks, Introductions, Orientation to Fairbanks</p> <p>Jia Wang Workshop Arrangement Paul Reichardt Provost of UAF Syun Akasofu Director of IARC Larry Hinzman Deputy Director of IARC</p>			
8:50 am - 9:00 am	"Workshop Expectation" by John Walsh			
9:00 am - 9:20 am	Group Photograph: Front steps of IARC Building			
9:20 am - 11:00 am	<p>Theme 1 Chair: John Walsh Climate Modeling and Diagnostic Studies (25 minutes, including 5 minutes for questions)</p>			
	<p>Akimasa Sumi: Present Status and Future Direction of Climate Modeling in Japan</p>	<p>Akio Kitoh: Changes in Snow Cover and Snow Water Equivalent Due to Global Warming Simulated by a 20km-mesh Global Atmospheric Model</p>	<p>Eiji Watanabe: Arctic Dipole Anomaly (DA) and its contribution to sea ice exports in the 20th century</p>	<p>Kazuyuki Saito: Hydro-thermal sensitivity of polar terrestrial climate to thermal soil representation evaluated by a 1-D model and a GCM</p>
11:00 am - 11:10 am	Coffee Break			
11:10 am - 12:40 pm	<p>Jia Wang: Simulating the 20th century Arctic climate variability using a global coupled atmosphere-ice-ocean model</p>	<p>Dirk Notz: Impact of Arctic fresh-water sources on the Atlantic Meridional Overturning Circulation</p>	<p>Koji Terasaki: Dynamical understanding of the Arctic Oscillation as a singular Eigenmode of the global atmosphere (poster 5 minutes)</p>	<p>Bill Hibler: Modeling tidal and inertial variability in sea-ice drift and deformation: Climatic implications</p>
12:40 pm - 1:40 pm	Lunch: IARC 5 th floor and personal time. A computer is available in 401 to check your e-mail.			
1:40 pm - 2:40 pm	Group Discussion (Moderator Sumi; Rapporteur: Notz)			
2:40 pm - 2:50 pm	Coffee break			
2:50 pm - 4:30 pm	<p>Theme 2 Chair: Akimasa Sumi Processes Studies and Pan-Arctic Models</p>			
	<p>James Miller: Modeling feedbacks between the water and energy budgets of the Arctic Ocean</p>	<p>Alex Hall: Constraining snow albedo feedback with the seasonal cycle</p>	<p>Vladimir Alexeev: Atmospheric heat transport and polar amplification</p>	<p>Jing Zhang: Thermodynamic and Hydrological Impacts of Increasing Greenness in Northern High Latitudes</p>
4:30 pm - 4:40 pm	Break			

WEDNESDAY, JUNE 14, 2006 (continued)

4:40 pm - 6:00 pm	Raghu Murtugudde: An educational model for Earth System Prediction	Nori Tanaka: Climate modeling toward the next novel level: Information exchange and humanosphere model	Kara Sterling: CCSM simulations of Atlantic Oceanic Transport
6:00 pm - 8:00 pm	Poster Session, IARC Room 501 (7:20 pm - 7:40 pm) Invited Speaker - Dr. Larry Hinzman: "Future Direction of IARC Arctic Climate Change Studies"		

THURSDAY, JUNE 15, 2006 (Theme 2 continued, IARC 401)

8:30 am - 10:10 am	Markus Meier: The Rossby Centre regional model system applied to the Arctic	Wieslaw Maslowski: Modeling Arctic Climate: Forcing, Feedbacks and Effects on Lower Latitudes	Changsheng Chen: A new high-resolution unstructured grid finite-volume Arctic Ocean model (AO-FVCOM): Validation and application	Hideaki Kitauchi: A Labrador Sea modeling studies by a coupled sea ice-ocean circulation model
10:10 am - 10:20 am	<i>Coffee Break</i>			
10:20 am - 11:35 am	Koji Shimada: Pacific Ocean inflow: Influence on catastrophic reduction of sea ice cover in the Arctic Ocean	Michiyo Kawai: Freshwater distribution, flux and residence time in the Canada Basin of the Arctic Ocean: from observations	Jun Inoue: Effect of summertime wind conditions on lateral and bottom melting in the central Arctic	
11:40 am - 12:40 pm	Group Discussion (Moderator: Miller; Rapporteur: Hall)			
12:40 pm - 1:40 pm	<i>Lunch: IARC 5th Floor</i>			
1:40 pm - 3:20 pm	Theme 3 Chair: Michael Winton Climate Change Simulations and Projections			
	John Walsh: Spatial variability of recent and projected warming in the IPCC models	Fuyuki Saito: Response of Greenland Ice Sheet to the Global Warming Simulated by a GCM coupled by an Ice Sheet Model	Sergey Venevsky: Interaction between climate system, vegetation carbon, soil carbon, active layer thickness and fires, implementation into Earth System models	Masahide Kimoto: High-resolution coupled ocean-atmosphere modeling for climate studies
3:20 pm - 3:30 pm	<i>Coffee Break</i>			
3:30 pm - 4:45 pm	Michael Winton: How does surface albedo feedback affect Arctic climate change?	Vladimir Kattsov: Arctic climate dynamics in the context of global warming: an interplay of the change and variability in AOGCM simulations	Masaru Inatsu: An aspect of stratospheric and tropospheric global warming response in an atmosphere-ocean coupled GCM	

THURSDAY, JUNE 15, 2006 (continued)

4:45 pm - 5:00 pm	<i>Coffee Break</i>
5:00 pm - 6:00 pm	Group Discussion (Moderator: John Walsh; Rapporteur: Winton)
	<i>Free time, dinner on your own</i>

FRIDAY, JUNE 16, 206 (IARC 401)

8:30 am - 10:30 am	IARC-JAMSTEC Research Project Review Chair: Syun Akasofu			
	Jia Wang: Ice-Ocean- Ecosystem Modeling	Igor Polyakov: Arctic Ocean Modeling and Observations	Yongwon Kim: Terrestrial Ecosystem Modeling and Observations	Xiangdong Zhang: Arctic Atmosphere: Weather and climate variability, Models, and Observations
10:30 am - 10:40 am	<i>Coffee Break</i>			
10:40 am - 12:00 pm	Breakout Discussion of Priorities and IARC's role in relation to the Priorities (including possibility of developing the Arctic ESM)			
	Theme 1 Rapporteur: Notz IARC Room 417	Theme 2 Rapporteur: Hall IARC Room 401	Theme 3 Rapporteur: Winton IARC 5 th Floor	
12:00 pm - 12:40 pm	Report by each rapporteur (10 minutes each) Wrap-up by Sumi/Walsh/Wang Adjourn			
12:40 pm - 1:40 pm	<i>Lunch: IARC 5th Floor</i>			
2:30 - 6:00 pm	JRC (JAMSTEC Review Committee) Meeting Or Field trip (for the participants) to UAF Large Animal Research Station. Meet bus in front of IARC building.			
	<i>Free time, dinner on your own</i>			