Agenda

Workshop on
The Future of Cloud Parameterization

May 7-9, 2003, Princeville, Kauai

Welcoming reception (with cash bar) on Tuesday evening May 6,
The Bay Terrace, Princeville Resort, 6:30 -- 8:00 p.m.

Wednesday May 7

	Morning session chaired by David Randall		
08:30	David Randall and Jay Fein	CSU and NSF	Introductory overview
09:30	**Marat Khairoutdinov**	CSU	Ongoing super-parameterization work at CSU
10:15	**Break**		
10:35	Charlotte DeMott	CSU	Tropical variability in the Super-CAM
10:55	Kazuo Saito	JMA	Cloud and convection in the JMA NWP models
11:15	**Steve Lord**	NCEP	Operational Cumulus Parameterization Requirements at the NCEP Environmental Modeling Center 2003-2009
12:00	**Lunch**		
	Afternoon session chaired by Steve Krueger		
13:30	**Wojciech Grabowski**	NCAR	Using super-parameterization in the clouds-in-climate problem
14:15	Mitch Moncrieff	NCAR	A Dynamical Model of MJO-like Coherence
14:35	Hiroaki Miura and Masahide Kimoto	CCSR	Cumulus ensemble simulation using a cloud resolving model.
14:55	Leo Donner	GFDL	Large-Scale Convective Sources from Two- and Three-Dimensional Cloud-System-Resolving Models
15:15	**Break**		
15:35	Kuan-Man Xu	NASA Langley Research Center	A satellite cloud, radiation and precipitation data set for cloud-model evaluation
15:55	Ming-Hua Zhang	SUNY Stonybrook	Cloud parameterizations: How good is good enough, and design of observational tests
16:15	Christian Jakob	BMRC	Evaluating Cloud Resolving Model simulations - Where are the gaps and how do we fill them?
16:35	**Discussion**		
17:30	**Adjourn for the day**		
19:00	**Group dinner**		

Thursday May 8

	Morning session chaired by Tom Ackerman		
08:30	**Akio Arakawa and Joon-Hee Jung**	UCLA	The Convergence Problem of Model Physics and Design of a Quasi-3D Super-Parameterization
09:15	Joon-Hee Jung and Akio Arakawa	UCLA	A Preliminary Test of Super-parameterization in an Idealized Framework
09:35	Steve Krueger	U. Utah	2D cloud system resolving models: Simulation or parameterization?
09:55	Chin-Hoh Moeng	NCAR	Parameterization of turbulent transport and cloud properties in PBLs over complex terrain and heterogeneous land use
10:15	**Break**		
10:30	**Akimasa Sumi**	CCSR	Comparison of convective heating in the simulation of super cluster on an aqua-planet by using a regional model
11:15	Sonia Kreidenweis	CSU	Future directions in modeling aerosol-cloud interactions
11:35	Andy Heymsfield	NCAR	Parameterizations of Ice Particle Size Distributions and Bulk Microphysical Properties for Cirrus and Stratiform Ice Cloud Layers
11:55	Howard Barker	Met. Serv. Canada	Radiative transfer calculations in regular and super-parameterized GCMs
12:15	**Lunch**		
	Afternoon session chaired by Akimasa Sumi		
13:30	**Bjorn Stevens**	UCLA	Adjustment Revisited
14:15	Tomoe Nasuno and Teruyuki Kato	FRSGC and MRI/JMA	Estimation of subgrid scale processes using a cloud-resolving model.
14:35	Cara-Lyn Lappen	CSU	The future PBL parameterization of the Colorado State University GCM
14:55	Tom Ackerman	PNNL	Testing Super-parameterization Results with ARM Data: Initial Results and Plans for Future Research.
15:15	**Break**		
15:30	Ric Cederwall and Jerry Potter	LLNL	Evaluation of Climate Model Parameterizations Using the DOE CCPP-ARM Parameterization Testbed (CAPT)
15:50	Christian Jakob	BMRC	The use of cloud radar observations for model evaluation: A probabilistic approach.
16:20	Steve Krueger and Y. Luo	U. Utah	Using cloud radar and satellite measurements to evaluate CSRMs
16:40	**Discussion**		
17:30	**Adjourn for the day**		

Friday

Morning session chaired by Christian Jakob
08:30	**Wayne Schubert**	CSU	Dream GCMs and Super-Parameterizations
9:15	Jim Hack	NCAR	Idealized Frameworks for the Diagnosis and Evaluation of Parameterized Physics
9:35	Robert Pincus	NOAA CDC	Looking over each others shoulders: What can explicit and traditional cloud parameterizations learn from one another?
9:55	Wei-Kuo Tao, Arthur Hou, Robert Atlas, David Starr and Yogesh Sud	NASA GSFC	Precipitation Processes Observed During ARM, TOGA COARE, GATE, SCSMEX, and KWAJEX: Consistent 2D, semi-3D and 3D Cloud Resolving Model Simulations
10:15		**Break**
10:30	**Masaki Satoh, Hirofumi Tomita, Koji Goto, and Tomoe Nasuno**	FRSGC/Saitama Institute of Technology	Development of the nonhydrostatic icosahedral atmospheric model in Frontier Research System for Global Change
11:15	Tsuneaki Suzuki, Seita Emori, Teruyuki Nishimura and Shinji Matsumura	FRSGC	The role of convective triggering in an AGCM
11:35	Phil Duffy, Balasrabrumanian "Bala" Govindasamy, Jeremy Coquard, John Iorio, Karl Taylor	LLNL	High resolution simulations of global climate
11:55	Martin Miller	ECMWF	TBD
12:15		**Lunch**
Afternoon session chaired by David Randall
1:30	**Graeme Stephens and Norm Wood**	CSU	Diagnosing Cloud Radiation Feedbacks with Super-Parameterization
14:15	Bill Rossow	NASA GISS	Some Ideas on How to Evaluate a Cloud Parameterization in a GCM
14:35	Chris Kummerow	CSU	Rainfall monitoring in 2010 - Prospects for a synergistic approach between model and observation.
14;55	Scott Denning	CSU	Cloud-scale mass fluxes and tracer transport inversions: New ways to study the global carbon cycle from the air
15:15		**Break**
15:35		**What happens next**
17:00		**Workshop ends**