

Welcome



guest | 32

nrrandsp

This meeting almost didn't happen.

Thanks to:

- ◆ **Cindy**
- ◆ **Jay Fein**
- ◆ **Olivier Pauluis**
- ◆ **Leslie Greengard, Director of Courant**
- ◆ **Louis Cusano, NYU's Office of General Counsel**
- ◆ **Pamela Bolen, Executive Director of the Kimmel Center**
- ◆ **John Reiniers, Kimmel's Scheduling & Marketing Manager**
- ◆ **Robert Pincus**

Team Meeting #6



Jay Fein



Value added

- ◆ **We are not trying to compete with other modeling centers. We are trying to influence them.**
- ◆ **We are doing things that the other centers will not do -- unless they see us doing them.**
- ◆ **We are not just producing a body of work. We are trying to add a new research direction to the field as a whole.**

This is what an STC should do.

Research Accomplishments

- ◆ **Q3D MMF has been reformulated and recoded.**
- ◆ **GCRM is nearing completion.**
- ◆ **Prototype MMF is producing lots of results.**
 - ▲ **Coupled run at COLA**
 - ▲ **Analysis of simulated surface energy budget and wind stresses**
- ◆ **New parameterizations are being tested in both SAM and the VVM.**
- ◆ **New work on conventional parameterizations**
 - ▲ **Statistical parameterizations**
 - ▲ **Turbulence parameterizations**

K-12 Programs

◆ Proposed:

- ▲ **Locally-developed K-12 programs in weather and climate to be disseminated nationally**

◆ Accomplished:

- ▲ **Reached 50,000 K-12 students and hundreds of teachers through LSOP; millions via Windows to the Universe; presented at AGU, AMS, and APA**

Teacher Training

◆ Proposed:

- ▲ Survey of K-12 teacher to determine needs
- ▲ Classroom material to be developed and tested with LSOP, disseminated through UCAR
- ▲ One-week summer course for college credit in weather and climate for 40 K-12 science teachers

◆ Accomplished:

- ▲ As proposed, two years so far

Undergraduate Education

◆ Proposed:

▲ Partnership with Colorado College:

- Summer Internships & Recruiting;
- Two courses: Air & Climate Change

◆ Accomplished:

- ▲ 6 summer interns from CC, one admitted to CSU, one receiving offer this week
- ▲ CMMAP grad students co-teaching two undergrad courses at CC
- ▲ ChangingClimates curriculum infusion initiative

Graduate Education

◆ Proposed:

- ▲ Support climate science grad students
- ▲ Professional development in pedagogy and other aspects of research careers
- ▲ Partnership with SOARS
 - Mentor undergraduate proteges
 - CMMAP scientists give SOARS colloquia
 - Support SOARS graduate Fellows

◆ Accomplished:

- ▲ As proposed (22 students @ 5 institutions; summer grad institute; 5 SOARS Proteges, 2 Fellows)

Diversity

◆ Proposed:

- ▲ Support graduate students from under-represented groups;
- ▲ Studies of (1) the science career pipeline; (2) media images of science; and (3) McNair Mentoring Program

◆ Accomplished:

- ▲ CMMAP grad students are 50% women; 10% African-American, 5% Latino; active recruiting
- ▲ Studies of career pipeline & media presented, to be published in year 3

KT Accomplishments

The book is being written.



JAMES has been launched.



Collaborations with NWP centers



Collaborations with climate modeling centers



What's happened since July 08?

- ◆ **JAMES was introduced**
- ◆ **Bjorn practiced his German**
- ◆ **STC Directors' meeting, Atlanta**
- ◆ **External advisory panel met**
- ◆ **High-resolution cloud-modeling workshop convened**
- ◆ **We were awarded >4 million hours of computer time for 2009**
- ◆ **Fall AGU was held**
 - ▲ **Many CMMAP papers**
 - ▲ **CMMAP booth**

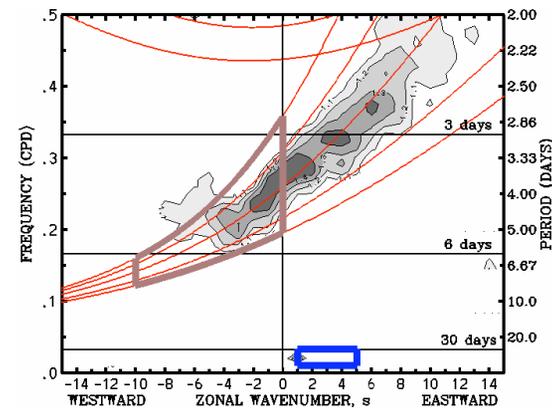
AGU booth



New External Advisory Panel Members



Larissa Back



George Kiladis

What's coming up?

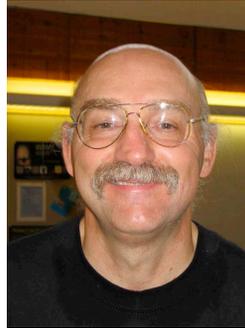
- ◆ **Move into new building**
- ◆ **Annual report**
- ◆ **Site visit**
- ◆ **Renewal proposal**



Introductions



Alan Betts



Andy Madja



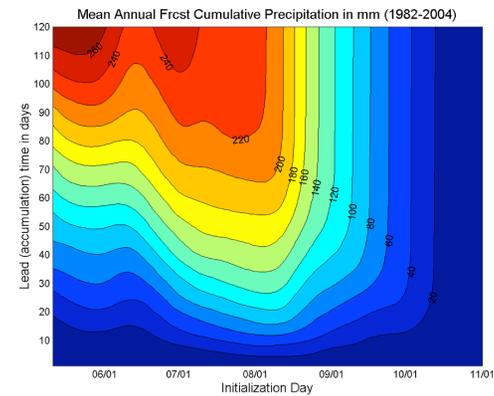
Jim Kinter



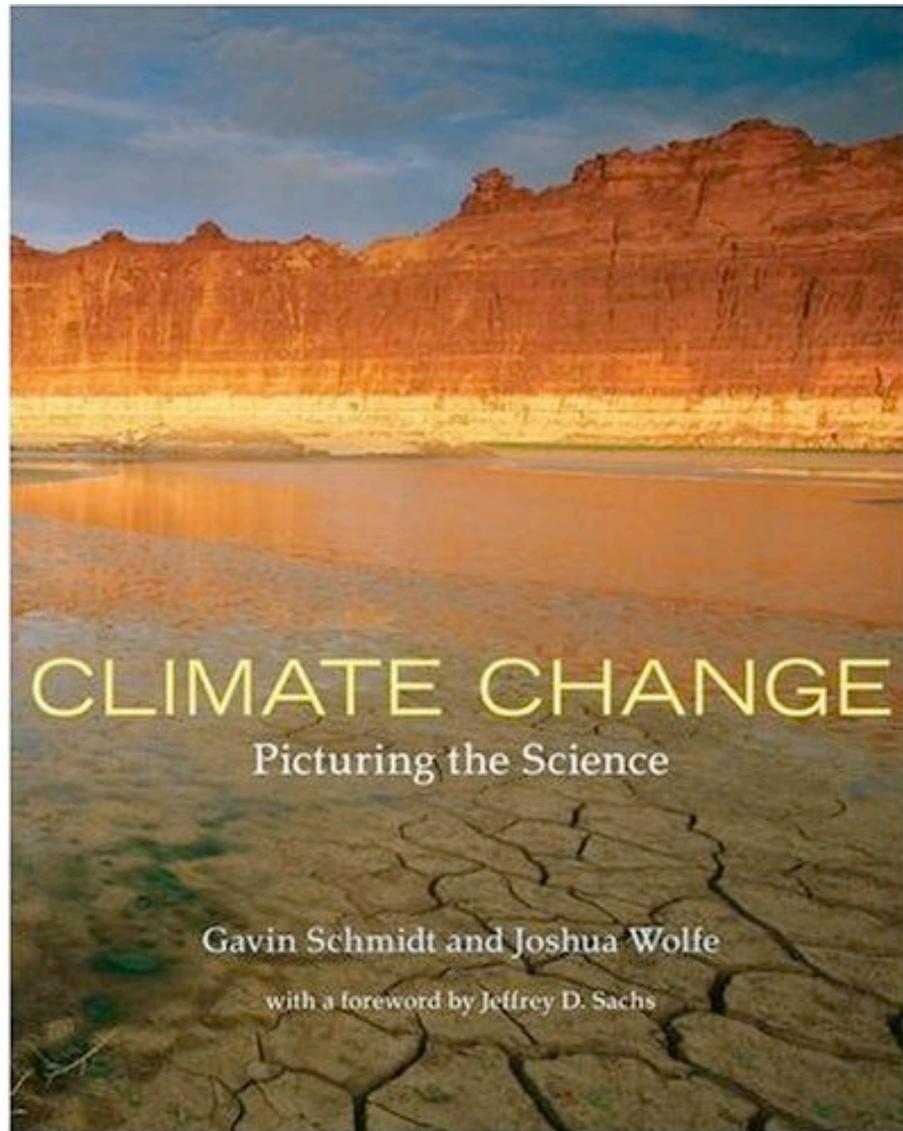
Hirofumi Tomita



Gavin Schmidt



Augustin Vintzileos



CLIMATE CHANGE

Picturing the Science

Gavin Schmidt and Joshua Wolfe

with a foreword by Jeffrey D. Sachs

Sixth CMAP Team Meeting, January 6 - 8, 2009

Tuesday, January 6, 2009		
8:30	David Randall, Jay Fein Cindy Carrick	Opening remarks/Agenda/Logistics
8:45	David Randall	Updates
9:15	Charlotte DeMott	Implied ocean heat transports in the MMF
9:45	James Kinter	Testing the MMF in a coupled climate simulation
10:15		Break
10:30	Chris Bretherton	Boundary layer cloud feedbacks on climate - an MMF perspective
11:00	Howard Drossman	Two new undergraduate classes on Climate Change and Biogeochemical Modeling: Evaluation of the content and student performance
11:30		Lunch on your own
1:00	Michelle Betsill	Climate change policy and politics: A status report
1:45		Breakout Session #1
3:00		Break
3:15		Breakout Session #1 Continues
4:00	Connie Uliasz	Ethics Discussion
4:45		Adjourn for the day
6:30		Team Dinner at local restaurant

Sixth CMAP Team Meeting, January 6 - 8, 2009

Wednesday, January 7, 2009		
8:30	Andy Majda	Non-linear models for convective momentum transport in the MJO and new algorithms for superparameterization models on mesoscales
9:15		Breakout Session #2
10:15		Break
10:30		Breakout Session #2 continues
11:30		Lunch on your own
1:00		Breakout Session #3
3:00		Break
3:15	Anna Harper and Ian Baker	Tropical land atmosphere interaction
4:00	Bjorn Stevens	Adventures with ECHAM
4:30	Hirofumi Tomita	Recent progress and activity of global cloud resolving simulation by NICAM
5:00		Adjourn, walk to the Courant Institute
5:30	Gavin Schmidt	Picturing the Science of Climate Change A Public Lecture in the Courant Institute Auditorium, Rm. 109 Warren Weaver Hall
7:00		Adjourn
7:15		CMAP Student Activity and EC Dinner with Jay and others

Sixth CMMAP Team Meeting, January 6 - 8, 2009

Thursday, January 8, 2009		
8:30	Augustin Vintzileos	On the importance of Atmospheric vs. Oceanic initial conditions for forecasting the MJO
9:00	David Randall	Suggestions for Summer 2009 Team Meeting Discussion
9:30		Breakout Session #4
10:30		Break
10:45		Breakout Session #4 Continued
11:45		Lunch on your own
1:15		Reports from Breakout Sessions (10 mins each)
2:35	David Randall	Wrap-up
3:00		End of meeting

Sixth CMAP Team Meeting, January 6 - 8, 2009

List of Breakout Sessions:

Where	Breakout Session #1 Tuesday PM	Breakout Session #2 Wednesday AM	Breakout Session #3 Wednesday PM	Breakout Session #4 Thursday AM
Main Meeting Room	MJO <i>Maloney and Waliser</i>	<i>JAMES Advisory Board Meeting</i> <i>Kinter</i> **CLOSED MEETING**	Low-cloud feedbacks <i>Stevens and Bretherton</i>	Planning Meeting: Graduate Student Summer Colloquium <i>Burt</i>
Breakout room	KT to NWP and Climate Centers <i>Collins</i>	Physical Processes <i>Moeng and Krueger</i>	Dynamical Framework <i>Randall and Arakawa</i>	CyberInfrastructure Working Group <i>Helly</i>