

12th CMMAP Team Meeting January 9-11, 2012



The last time I was in Fort Lauderdale



Local Talent



Brian Soden



Amy Clement



Dave Nolan



Chris Landsea
Science & Operations Officer
National Hurricane Center

Marcia

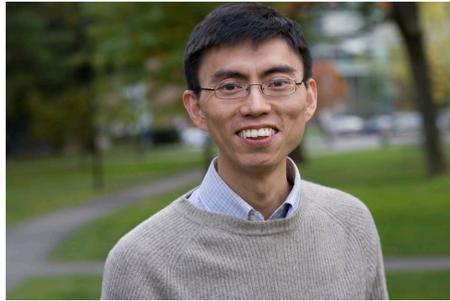
Marcia Donnelson had minor surgery last week, and as a result had to cancel her participation in this meeting.

She is feeling well but would appreciate hearing from you.



External Advisory Panel

Incoming:
Zhiming Kuang
Stephanie Rivale
Tiffany Shaw



Continuing:
Tony DelGenio
Brian Mapes, Chair
Mike Wehner



Outgoing:
Larissa Back
George Kiladis, Chair
Marco Molinaro

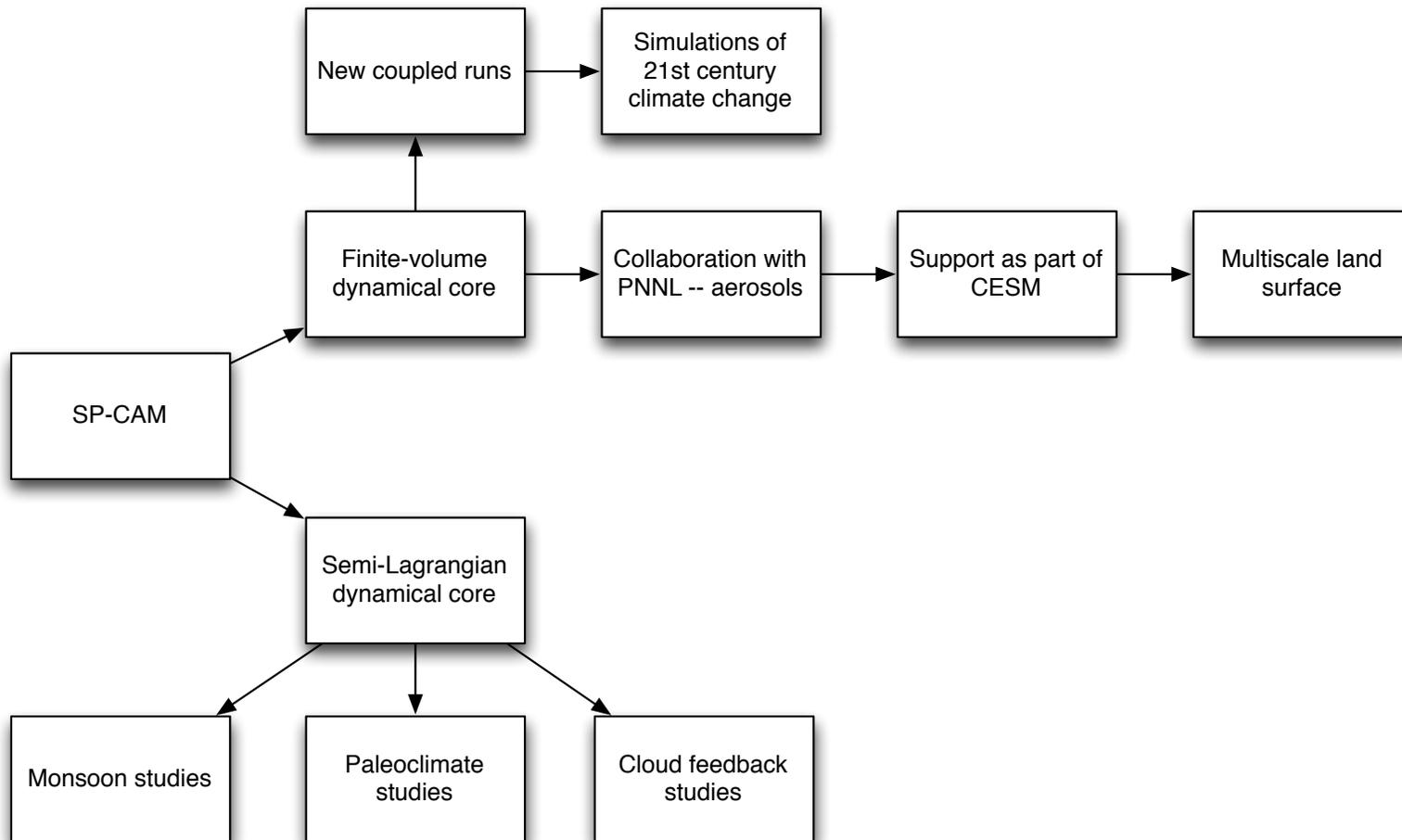


Research Objectives, Renewal

- 1. Further development of global models with diverse representations of cloud processes.**
- 2. Further development and testing of improved parameterizations of microphysics, turbulence, and radiation.**
- 3. Application of CMAP models to study multiscale interactions of the atmosphere and land-surface.**
- 4. Application of CMAP models to study the coupled climate system.**
- 5. Community-based evaluation of results produced by CMAP models, through the use of diverse observations.**
- 6. Management, analysis and visualization of very large model output datasets.**

NSF is not funding us to play small ball.

Research with the evolving SP-CAM



We have only partial control of these various projects.

New parameterizations for CRMs

Radiation

RRTM
McICA

Microphysics

Morrison-Grabowski

Turbulence

NASA
Utah
CSU
CLUBB

Aerosols

Ghan-Gettleman-Wang

Coupled tests are needed.

Q3D MMF

Unified
Parameterization

Global Cloud
Resolving Model

We are fully in control of these projects.

ED & KT

- ◆ **HESTEC**
- ◆ **CGCC**
- ◆ **REACH**
- ◆ **Climate
education
app**



Future CMMAP winter meetings

From the beginning, CMMAP has held its summer meetings in Fort Collins, and its winter meetings elsewhere.

**2007 Kauai
2008 UCLA
2009 New York City
2010 Scripps
2011 Berkeley
2012 Fort Lauderdale**

Starting in 2013, we **may have both summer and winter meetings in Fort Collins.**

Pros:

Save about \$30 K per year, increase ED participation, avoid CSU contract hassles.

Cons:

Good to visit partners, nice to go to a warm place in the winter, pleasant to have some variety.

Your input is needed.



No one from NSF is at this meeting.

The EC and a few others will visit NSF in May for our annual evaluation. This will take the place of an annual site visit.

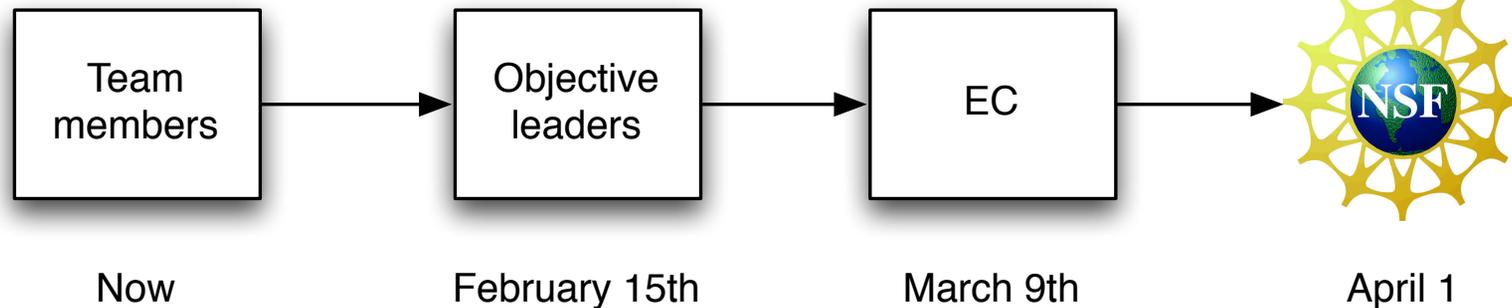
In 2013, we will be site visited again.

Annual Report

The reporting system is ready to use now.

Our report to NSF is due on April 1.

Please upload figures as separate files.



12th CMMAP Team Meeting

January 10-12, 2012

Tuesday, January 10, 2012		
8:30	David Randall	Opening remarks, Agenda, Logistics, and Updates
9:15	Anna Harper	Amazon Response to Drought
10:00	Break	
10:15	Brian Jones	Everything I Know About Science Teaching I Learned in Kindergarten: Applying lessons from the Little Shop of Physics to the college classroom
11:10	Denning & Ames	Climate App
Noon	Lunch on your own	
1:30	Brian Soden	Separating Feedbacks and Forcings in CMIP5 Models
2:30	Breakout team leads	Breakout Session # 1 - Coupled Models & Climate Change, and CyberInfrastructure
3:15	Break	
3:30		Breakout Session # 1 - Continues
4:45		Prepare for Working Group Summaries
5:00	Breakout team leads	Working Group Summaries
5:20		Break before dinner
6:00	Team Dinner - Chris Landsea on "Hurricane Forecasting at the National Hurricane Center"	

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Wednesday, January 11, 2012		
8:30	Breakout team leads	Breakout Session #2 (Multiscale Land Surface & Physical Processes)
10:30	Break	
10:45	Dave Nolan	Tropical Cyclone Genesis and Wind Shear
11:30	Lunch on your own	
1:00	John Helly	Climategate & Data Sharing
2:00	Breakout team leads	Breakout Session #3 (Students & Dynamical Frameworks)
3:15	Break	
3:30		Breakout Session #3 continues
4:15	Prepare for Working Group Summaries	
4:35	Working Group Summaries	
5:00	Objective Team Leaders Meet	
6:00	EC dinner; others dinner on your own	

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Thursday, January 12, 2012		
8:30	Bretherton & Blossey	Breakout Session # 4- Cloud Feedback
10:30	Break	
10:45	Amy Clement	Low-clouds and persistent changes in the atmospheric circulation and regional hydroclimates
11:45	Lunch on your own	
1:15		Working Group Action Items
2:00	End of meeting	

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List of Breakout Sessions

	Breakout Session #1 Tuesday PM	Breakout Session #2 Wednesday AM	Breakout Session #3 Wednesday PM	Breakout Session #4 Thursday AM
Main Meeting Room	Coupled Models and Climate Change -- Stan & DeMott	Multiscale Land Surface -- Denning & Bonan	Graduate Students - - Burt	Cloud Feedbacks -- Bretherton & Blossey
Breakout Room	Cyber Infrastructure -- Helly & Schuchardt	Physical Processes -- Moeng & Morrison	Dynamical Frameworks -- Randall & Konor	

Working Group Reports

- ◆ **Following a suggestion after the summer 2011 meeting, we will do the working group summaries day-by-day instead of all at once at the end.**
- ◆ **On Thursday early afternoon we will close the meeting with presentations of the working group action items.**

A photograph of a lush tropical forest. The scene is filled with various types of green plants, including palm trees and broad-leafed shrubs. Sunlight filters through the dense canopy, creating a dappled light effect. The overall atmosphere is vibrant and natural.

Anna Harper.