

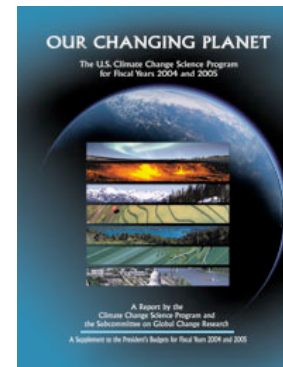


CMMAP

Reach for the sky.

U.S. Climate Change Science Plan (2004-5)

“CCRI will support continued development and refinement of computational climate models. Priority activities will focus on improving model physics (particularly with respect to clouds and aerosols)...”



IPCC Third Assessment (2001)

“...Cloud processes are most important for determining ... temperature, changes in models. ...Considerable uncertainty remains; this represents a significant source of potential error in climate simulations. The range in estimated climate sensitivity of 1.5 to 4.5°C for a CO₂ doubling is largely dictated by the interaction of model water vapour feedbacks with the variations in cloud behaviour among existing models.”



Think Different

We need a new approach to solving the cloud puzzle.



Fortunately, a new approach has recently emerged through:



Advances in computing power



Human imagination

Timeline

November 2000	DR suggests that Marat create a super-parameterized version of the CAM
Spring 2001	Marat produces the first results from the super-parameterized CAM
Summer 2001	DR starts to seriously consider proposing an STC
Late 2001	DR decides to go for it, and we begin waiting for the NSF announcement to come out
February 2002	DR visits NSF to discuss the STC idea with Jay Fein
Spring 2002	DR starts drafting the STC proposal
October 2002	The Snowstorm Workshop at the Fort Collins Marriott
March 2003	The NSF announcement comes out
May 2003	Major planning Workshop



Timeline

June 2003	The Pre-Proposal is submitted
October 2003	NSF invites us to submit a Full Proposal
Late 2003	Three more Workshops
February 2004	The Full Proposal is submitted
Early June 2004	NSF emails to say that we will be site-visited
October 2004	Site Visit
January 2005	Six of the twelve site-visited proposals are declined, but ours is not declined
April 2005	DR visits NSF to meet Margaret Tolbert
July 2005	The Limbo Workshop in Fort Collins



Timeline

December 2005	We get the word that NSF is "moving towards an award"
February 2006	Video conference
May 2006	Retreat
June 2006	Strategic Plan approved
July 2006	Award

The long and winding road

- **Your Wildest Dreams**
- **Stairway to Heaven**
- **Sitting in Limbo**
- **Heaven's Just a Sin Away**
- **Once in a Lifetime**



Thanks.

WG

MK

Wanda and ARM

CC

CSU

Proposal Plotters

Cost-Sharers


Strategic Planners

Travelers

Jay and NSF

MAC Foundation

And many more...



**Remarks by
Hank S. Gardner, Jr.
CSU's Interim Vice President for Research**

Jay Fein



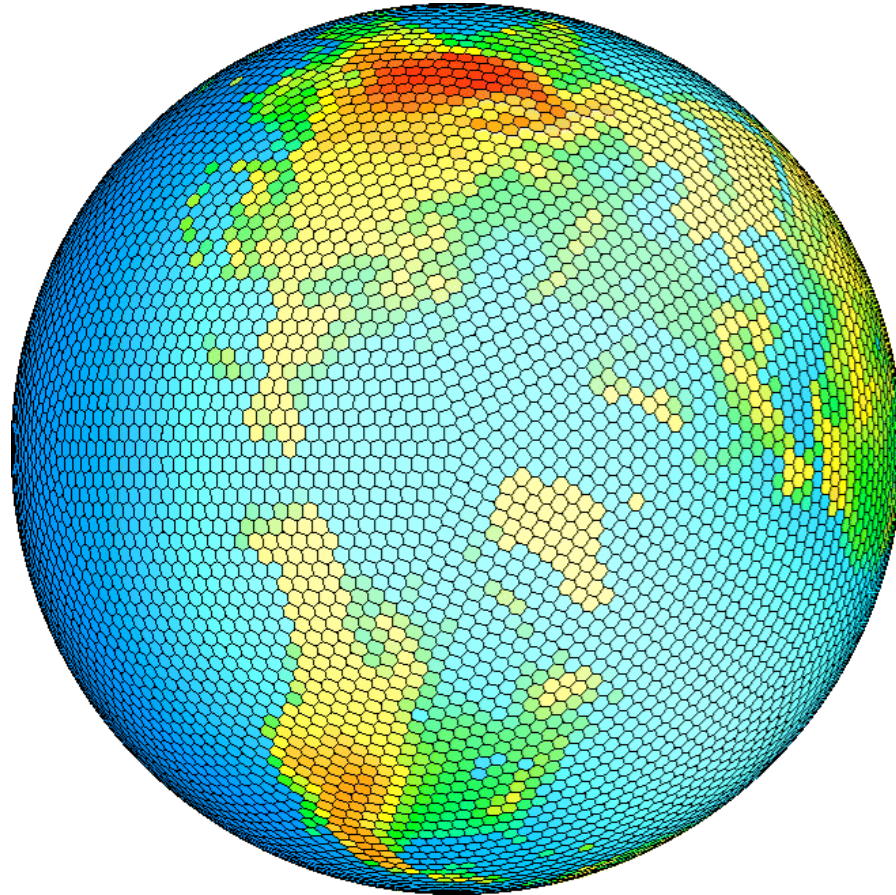
First CMMAP Team Meeting, August 15-17, 2006

Tuesday, August 15, 2006		
8:30	David Randall Hank Gardner Jay Fein	Opening remarks
8:45	David Randall	How did we get here?
9:15	David Randall	Research overview
10:00	Break	
10:30	Scott Denning	Education and Diversity overview
11:15	Wayne Schubert	Knowledge Transfer overview
11:45	Lunch	
13:15	Cindy Carrick and David Randall	Getting your money and other items of interest
14:00	Working groups	
15:30	Break	
15:45	Akio Arakawa	Progress towards a Quasi-3D MMF
16:15	WG Leaders	Reports from working groups
17:00	David Randall	First-day wrap-up
17:15	Adjourn for the day	
18:00	Reception at the Marriott	
20:00	Reception ends	

Strategic plan, objectives, and structure of meeting

Subawards & CSU collabs (CC),
Reporting (CC),
WGs (DR),
IPA (CC),
Ethics training (DR),
EAP (DR),
Computing (DR),
Web site (DR),
Visitors (CC)

Research



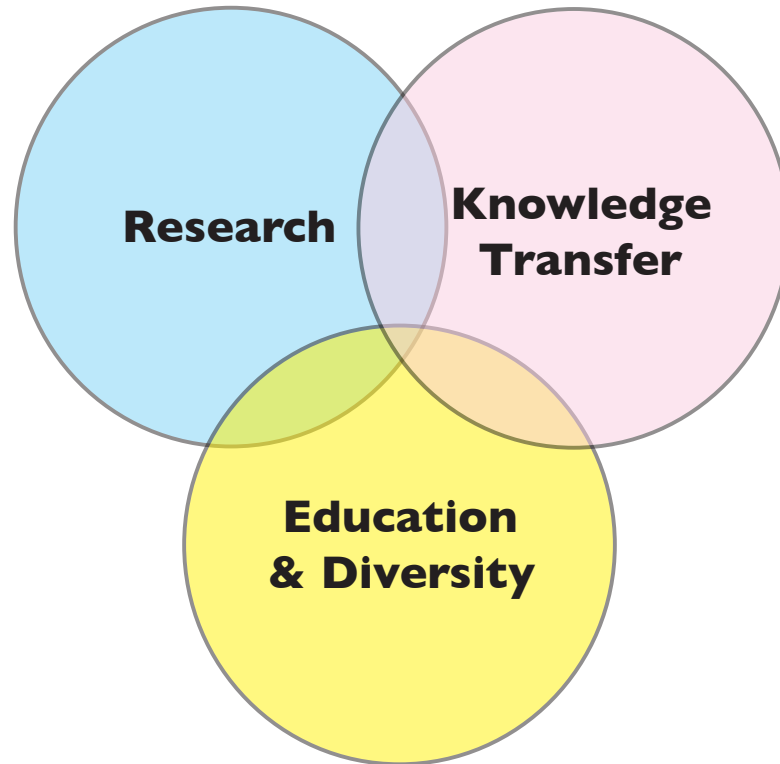
Education and Diversity



Knowledge Transfer



First CMAP Team Meeting, August 15-17, 2006



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First CMAP Team Meeting, August 15-17, 2006

Wednesday, August 16, 2006		
8:30	David Randall	Marching orders
8:45	Wojciech Grabowski	Cloud microphysics and climate: Progress and prospects
9:15	Masaki Satoh and Hiroaki Miura	Design and testing of a global cloud-resolving model
10:00	Break	
10:30	Working groups	
12:00	Lunch	
13:30	Bjorn Stevens	Solving the cloud feedback problem
14:00	Howard Drossman	Systematic approaches to Atmospheric Science education
14:30	Raj Pandya	CMAP and SOARS
15:00	Break	
15:30	WG leaders	WG reports
16:15	David Randall	Wrap-up for the day
16:30	Adjourn for the day	
18:00	Barbecue at DR's house	

Scott chairs

Chin-Hoh chairs

First CMAP Team Meeting, August 15-17, 2006

Thursday, August 17, 2006		
8:30	Bruce Wielicki	Climate, MMFs, and satellite observations
9:00	Working groups	
10:30	Break	
10:45	WG leaders	WG reports
11:30	David Randall	Wrap-up, and plans for the next meeting
12:00	Meeting ends	



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