

18th CMMAP Team Meeting

January 12-14, 2015





Introductions

Ralph Keeling - Scripps

Rick Salmon - Scripps

Shang-Ping Xie - Scripps

Nathalie Zilberman - Scripps

Thomas Kilpatrick - Scripps

Wei Mei - Scripps

Hossein Parishani - UC Irvine

Sungduk Yu - UC Irvine

Joao Teixeira - JPL

Hiroaki Miura - University of Tokyo

Ching-Ming Wu - National Taiwan U.

Ed Patton - NCAR





JAMES

**JOURNAL OF ADVANCES IN
MODELING EARTH SYSTEMS**

18 Months to Go



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 CMMAP models to study multiscale interactions of the atmosphere and land-surface.
4. Application of CMMAP models to study the coupled climate system.
5. Community-based evaluation of results produced by CMMAP models, through the use of diverse observations.
6. Management, analysis and visualization of very large model-output datasets.

Work in Progress

- ◆ Unified parameterization
- ◆ Q3D MMF
- ◆ Global VVM (SUZI, etc.)
- ◆ Coupling with CLM
- ◆ GigaLES
- ◆ Turbulence parameterization
- ◆ Outreach to ECMWF and NCEP

18th CMMAP Team Meeting

January 13 - 15, 2015

Tuesday January 13, 2015

We will be in the Acapulco Room (2nd floor, La Jolla Shores Hotel) for all meeting sessions (no breakout room).

8:30	David Randall	Opening remarks and updates
9:00	Ralph Keeling	Atmospheric signatures of changing global biogeochemistry
10:00	<i>Break</i>	
10:15	Rick Salmon	Wave Vortex Dynamics
11:15	David Randall	Dynamical Frameworks session - part I
12:15	<i>Lunch on your own</i>	
1:30	Chris Bretherton & Charlotte DeMott	Coupled Models & Climate Change / Clouds & Climate session
3:00	<i>Break</i>	
3:15	Chris Bretherton & Charlotte DeMott	Coupled Models & Climate Change / Clouds & Climate session
5:00	<i>Break before Dinner</i>	
6:00	Team Dinner in La Jolla room at La Jolla Shores Hotel, with talk by Nathalie Zilberman	

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Wednesday January 14, 2015

8:30	David Randall and all	Looking ahead plenary: The last 18 months of CMMAP
9:15	Chin-Hoh Moeng	Physical Processes session
10:15	<i>Break</i>	
10:30	Chin-Hoh Moeng	Physical Processes session
11:30	<i>Lunch on your own</i>	
1:00	David Randall	Dynamical Frameworks session - part 2
2:00	Scott Denning	Multiscale Land Surface session
3:00	<i>Break</i>	
3:15	Scott Denning	Multiscale Land Surface session
4:15	As needed	Extra time for working group session run-over or further discussions
5:00	<i>Meeting adjourns for the day. CMMAP EC/EAP dinner at Piatti's. Others, dinner on your own.</i>	

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Thursday January 15, 2015		
8:30	Robert Pincus	Making sense of radiative forcing
9:30	Scott Denning & Melissa Burt	Teen Science Cafés
10:00	<i>Break</i>	
10:15	Shang-Ping Xie	Reducing uncertainty of regional climate projections: New challenge for ocean-atmospheric dynamics
11:15	David Randall	Wrap-Up
12:00	<i>Meeting Adjourns</i>	

Ralph Keeling

