



Climate Feedbacks and Future Remote Sensing Observations



KISS Mini-Program

September 2009

Joao Teixeira

and

Yuk Yung



Climate Feedbacks and Future Remote Sensing Observations

The main goals of this Mini-Program are:

- To bring together scientists from different branches of the climate community (theory, models, observations) to address key problems in the physics of climate feedbacks
- To promote the use of remote sensing observations in the climate physics and climate modeling community
- To provide guidance on future research and future missions regarding the physics of climate feedbacks



Climate Feedbacks and Future Remote Sensing Observations

- First Week – Water Vapor Feedbacks OR
- Deep Tropospheric Processes
- Second Week – Cloud Climate Feedbacks OR
- Cloudy Boundary Layer
- It's about the physics: Theory, models and future observations



Climate Feedbacks - Agenda

CLOUD-CLIMATE FEEDBACK WEEK

Tuesday, September 8, 2009

8:00 - 8:45	Coffee outside Lauritsen Building around the oak tree (Study location: Lauritsen 269)
8:45 - 9:00	KISS Logistics - Michele Judd (KISS)
9:00 - 9:15	KISS Welcome - Tom Prince (KISS)
9:15 - 9:30	Study Overview - Joao Teixeira (JPL) / Yuk Yung (Caltech)
9:30 - 10:00	Chris Bretherton (University of Washington)
10:00 - 10:30	Pier Siebesma (Royal Netherlands Meteorological Institute)
10:30 - 11:00	Break outside Lauritsen Building around the oak tree
11:00 - 11:30	Steve A. Klein (Lawrence Livermore National Laboratory)
11:30 - 12:00	Joel Norris (Scripps Institution of Oceanography)
12:00 - 1:30	KISS Lunch at Athenaeum
1:30 - 2:00	Joao Teixeira (JPL)
2:00 - 2:30	Tom Ackerman (University of Washington)
2:30 - 3:00	Hui Su (JPL)
3:00 - 3:45	Break outside Lauritsen Building around the oak tree
3:45 - 4:00	Breakout Session Kick-off
4:00 - 5:30	Breakouts
5:30 - 6:00	Break
6:00 - 7:30	KISS Dinner at the Athenaeum Lawn

Wednesday, September 9, 2009

8:00 - 9:00	Coffee outside Lauritsen Building around the oak tree (Study location: Lauritsen 269)
9:00 - 9:30	Graeme L. Stephens (Colorado State University)
9:30 - 10:00	William B. Rossow (City College of New York)
10:00 - 10:30	Rob Wood (University of Washington)
10:30 - 11:00	Break outside Lauritsen Building around the oak tree
11:00 - 11:30	Paquita Zuidema (RSMAS/University of Miami)
11:30 - 12:00	Dong L Wu (JPL)
12:00 - 1:30	Lunch at participant's discretion
1:30 - 3:00	Breakouts
3:00 - 4:00	Break outside Lauritsen Building around the oak tree
4:00 - 6:00	Informal discussions
6:00 - 7:30	KISS Dinner at the Athenaeum Lawn

Thursday, September 10, 2009

8:00 - 9:00	Coffee (Study location: Lauritsen 269)
9:00 - 10:30	Presentations from breakouts
10:30 - 11:00	Break outside Lauritsen Building around the oak tree
11:00 - 12:00	Plenary discussion

Guiding questions for each of the breakout working groups:

- What are the key theoretical questions and what observations are necessary to address them?
- What are the key modeling problems and what observations are necessary to address them?
- How good are current observational datasets and what new observations are necessary?