

Agenda

CERES Science Team Meeting

University of Washington, Seattle, WA
McCarty Hall, Lower Level, Rooms A, B and C

September 1-3, 2015

Major Objectives for the Meeting:

- 1. *Review status of CERES Instruments and Data Products:***
 - CERES Project Status
 - CERES Terra, Aqua and SNPP SW/LW/TOTAL Channel Calibration Update
 - CERES FM6 and RBI Update
 - CERES Cloud Algorithm & Validation Status: MODIS, VIIRS, GEOs
 - CERES TOA Flux & Angular Distribution Model Update: FM1-FM5
 - SOFA, SARB and TISA Working Group Reports
 - FLASHFLUX Update
 - Plans for Next Version of EBAF-TOA and EBAF-SFC
 - Data Management Team Update: Terra/Aqua/SNPP
 - CERES Education Outreach
- 2. *Invited Presentations Session: Each presentation is 45 min.***
- 3. *Contributed Science Reports. Each report is 20 min including time for questions.***

Meeting Minutes: PDF

We plan to publish the minutes of the meeting electronically, so please send an electronic copy of your presentation to Ed Kizer (edward.a.kizer@nasa.gov) either before or following the meeting. Desired format is a pdf document.

Dutch Treat Dinner: 6:00 pm Tuesday Evening
(Ristorante Doria, 4759 Roosevelt Way NE)

Tuesday, September 1
University of Washington, Seattle, WA

CERES Technical Session

8:55 am	Welcome/Meeting Logistics	<i>N. Loeb</i>
9:00 am	State of CERES	<i>N. Loeb</i>
9:30 am	CERES FM1-FM6 Instrument Update	<i>K. Priestley/ S. Thomas</i>
10:15 am	Break	
10:45 am	CERES Clouds Working Group Report	<i>P. Minnis</i>
11:15 am	CERES Angular Distribution Model (ADM) Working Group Report	<i>W. Su</i>
11:45 am	Status of the SOFA Validation and TSI Data	<i>D. Kratz</i>
12:05 pm	Lunch	
1:35 pm	Surface Atmospheric Radiation Budget (SARB) Working Group Update	<i>S. Kato</i>
1:55 pm	Time Interpolation and Spatial Averaging (TISA) Working Group Report	<i>D. Doelling</i>
2:25 pm	CERES Energy Balanced and Filled (EBAF) Edition4 Plans	<i>N. Loeb/ S. Kato</i>
2:55 pm	CERES Fast Longwave and Shortwave Fluxes (FLASHFLUX) Update	<i>P. Stackhouse</i>
3:15 pm	Break	
3:45 pm	CERES DMT Working Group Report	<i>J. Gleason</i>
4:15 pm	CERES Education and Outreach Overview	<i>M. McKeown</i>
4:35 pm	Adjourn	

Wednesday, September 2

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8:30 am	Working Group Sessions <i>Surface to TOA Fluxes (Kato et al.)</i> <i>Cloud Properties (Minnis et al.)</i>	
9:30 am	Break	
	Invited Presentations	
10:00 am	On the response of terrestrial aridity to global warming	<i>Q. Fu</i>
10:45 am	Geographically coherent patterns of albedo enhancement and suppression associated with aerosol sources and sinks	<i>R. Wood</i>
11:30 am	Hemispheric asymmetries of radiation and tropical rainfall	<i>D. Frierson</i>
12:15 pm	Lunch	
	Contributed Science Presentations	
1:45 pm	Shortwave and longwave contributions to global warming under increasing CO ₂	<i>A. Donohoe</i>
2:05 pm	Can CERES data help constrain cloud feedback?	<i>S. Po-Chedley</i>
2:25 pm	Sensitivity of tropical water and energy cycle to SST increase and doubling CO ₂ as simulated with an upgraded Multiscale Modeling Framework	<i>K.-M. Xu</i>
2:45 pm	Responding to climate change: Is climate engineering an option?	<i>T. Ackerman</i>
3:05 pm	Observation-based constraints on atmospheric and oceanic cross-equatorial heat transport	<i>N. Loeb</i>
3:25 pm	Break	
3:50 pm	Understanding the radiative impacts of open and closed mesoscale cellular convection	<i>I. McCoy</i>
4:10 pm	The evolution of subtropical stratocumulus cloud properties from multiple satellites using a new Lagrangian approach	<i>R. Eastman</i>
4:30 pm	Dependencies of subtropical low cloud diagnosed from AIRS, MODIS, and ECMWF-interim reanalysis and the inferred changes in low cloud fraction in a warming climate	<i>C. Wall</i>
4:50 pm	A new CERES flux-by-cloud-type simulator	<i>Z. Eitzen</i>
5:10 pm	Adjourn	

Thursday, September 3

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Contributed Science Presentations (Cont'd)

8:30 am	Validating CERES Arctic fluxes with airborne flux measurements from the ARISE campaign	<i>J. Corbett</i>
8:50 am	CALIPSO-inferred aerosol direct radiative effects: Bias estimates using ground-based Raman lidars	<i>T. Thorsen</i>
9:10 am	Comparison between CCCM and Cloudsat Radar-Lidar cloud and radiation products	<i>S.-H. Ham</i>
9:30 am	Effect of snow grain shape on snow albedo	<i>C. Dang</i>
9:50 am	A new ice parameterization for broadband radiative transfer simulations in comparison with CERES observations	<i>P. Yang</i>
10:10 am	Break	
10:40 am	Comparisons of ice cloud properties of DCSs between GOES, MODIS and ground-based retrievals	<i>B. Xi</i>
11:00 am	Comparison of unfiltered CERES radiances measured from the S-NPP and AQUA satellites over matched sites	<i>P. Szewczyk</i>
11:20 am	Modeling ERBE WFOV Nonscanner dome degradation and reprocessing its radiation budget data from 1985 to 1999	<i>A. Shrestha</i>
11:40 am	A machine-learning approach to scene classification and flux estimation using CERES-only TOA radiances	<i>B. Thampi</i>
12:00 pm	Adjourn	