

Agenda

2018 Earth Radiation Budget Workshop

National Center for Atmospheric Research, NCAR Mesa Lab
Boulder, CO
September 10-13, 2018

1. ***CERES, GERB and ScaRaB Technical Sessions***
- Status of instruments, algorithms, validation, data products
2. ***Invited Presentations. Each presentation is 45 min including time for questions.***
3. ***Contributed Science Reports. Each report is 20 min including time for questions.***

Ice Breaker: 5:00 pm Monday (NCAR Mesa Lab)

Dutch Treat Dinner: 6:30 pm Tuesday (BOULDER 29TH STREET)

Monday, September 10

CERES Technical Session

8:55 am	Welcome/Meeting Logistics	<i>A. Gettelman</i>
9:00 am	State of CERES	<i>N. Loeb</i>
9:20 am	Status of NASA's Earth Radiation Budget Earth Venture-Continuity (ERB EV-C) Opportunity	<i>D. Considine</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>B. Smith</i>
11:15 am	CERES Angular Distribution Model (ADM) Working Group Report	<i>W. Su</i>
11:45 am	FLASHFlux and SOFA Working Group Status: Increasing Data Usage Through POWER-GIS Web Services	<i>P. Stackhouse</i>
12:15 pm	Lunch	
2:00 pm	Surface Atmospheric Radiation Budget (SARB) Working Group Update	<i>S. Kato</i>
2:30 pm	Time Interpolation and Spatial Averaging (TISA) Working Group Report	<i>D. Doelling</i>
3:00 pm	Break	
3:30 pm	CERES Data Management Team (DMT) Working Group Report	<i>J. Gleason</i>
4:00 pm	Adjourn	
5:00 pm	Ice Breaker	

Tuesday, September 11

GERB Technical Session

8:30 am	GERB Project Status	<i>H. Brindley</i>
8:50 am	GERB Operation, Data and Calibration Status	<i>J. Russell</i>
9:20 am	GGSPS Status	<i>A. Smith</i>
9:30 am	RGP Status	<i>E. Baudrez</i>
9:40 am	GERB 3 Processing Results	<i>E. Baudrez</i>
10:00 am	GERB 2 Indian Ocean Processing Update	<i>J. Moreels</i>
10:20 am	Combining GERB Observations With the Newly Released CM SAF AOD Data record	<i>N. Clerbeaux</i>
10:40 am	Break	

NCAR Seminar

11:00 am	Implications of Earth's energy imbalance	<i>K. Trenberth</i>
12:00 pm	Lunch	

ScaRaB Technical Session

2:00 pm	Short update of the SCARAB instrument and processing	<i>T. Fiolleau</i>
2:20 pm	Using SCARAB channel 4 for calibrating the georing IR imagery	<i>T. Fiolleau</i>
2:40 pm	Compositing radiation observations over the life cycle of tropical MCS: sampling aspects and preliminary results	<i>D. Bouniol</i>
3:00 pm	Break	

Science Presentations

3:30 pm	INVITED: Understanding CESM2 Through the Lens of NCAR's Climate Model Assessment Tool	<i>J. Fasullo</i>
4:15 pm	Cloud-topped Boundary Layers in Climate Models	<i>B. Medeiros</i>
4:35 pm	Comparison of Atmospheric Heating rates from Passive(Modis) Vs Active(C3M) Sensor Cloud Retrievals	<i>F. Rose</i>
4:55 pm	Adjourn	

Wednesday, September 12

Science Presentations

- 9:00 am **INVITED:** Detection and Attribution of Arctic Climate Change *J. Kay*
- 9:45 am Using Atmospheric Regimes to Assess CMIP5 Model Biases in the Arctic Surface Energy Budget *P. Taylor*
- 10:05 am Towards Understanding Projected Changes in the Arctic Surface Heat Budget *M. Holland*
- 10:25 am Break**
- 10:55 am **INVITED:** Simulating the Earth's Radiation Budget and How it Might Change *A. Gettelman*
- 11:40 am Ocean heat content estimate: an overview *L. Cheng*
- 12:00 pm Earth Energy Budget *D. Murphy*
- 12:20 pm Lunch**
- 2:00 pm GERB monthly diurnal averages for Obs4MIPs *J. Russell*
- 2:20 pm Probing the far infrared in support of ESA's Far infrared Outgoing Radiation Understanding and Monitoring (FORUM) mission *H. Brindley*
- 2:40 pm A maximum-entropy-production perspective of the surface energy budget *X. Huang*
- 3:00 pm Land perspective on the Surface Energy Budget *D. Lawrence*
- 3:20 pm Break**
- 3:50 pm An update on a two-habit ice cloud model and a two-layer surface snow model for optical property simulations *P. Yang*
- 4:10 pm Evaluation of CERES ED4 MODIS and GEO cloud properties using ARM SGP observations by Dong/McHardy *X. Dong*
- 4:30 pm Current Status of Cloud Properties from VIIRS on JPSS-1 for CERES *S. Sun-Mack*

4:50 pm Adjourn

Thursday, September 13

Science Presentations

9:00 am	Solar Irradiance from Space: TSIS and beyond	<i>P. Pilewskie</i>
9:20 am	Early History of Earth Radiation Budget Measurements from Satellites	<i>T. Vonder Haar</i>
9:40 am	Determining the daytime global radiation budget from DSCOVR	<i>W. Su</i>
10:00 am	Break	
10:30 am	Developing an AVHRR-based CDR of TOA radiative fluxes within the CMSAF Project	<i>T. Akkermans</i>
10:50 am	AERONET and MISR validation of the MATCH Edition 4 aerosol dataset	<i>D. Fillmore</i>
11:10 am	A Simple SW TOA & Surface Flux Decomposition Methodology for Evaluating Model Variability	<i>N. Loeb</i>
11:30 am	Adjourn	