Agenda

CERES Science Team Meeting

October 17-19, 2023

NASA Goddard Institute for Space Studies
2880 Broadway New York, NY

Major Objectives for the Meeting:

1. ***Review status of CERES Instruments and Data Products:***
   - Status of CERES
   - CERES FM1-FM6 Calibration Update
   - MODIS, VIIRS GEO Cloud Algorithm & Validation Status
   - ADM, SARB, TISA and FLASHFlux Working Group Reports
   - EBAF Update
   - Data Management Team Update: Terra/Aqua/S-NPP/NOAA-20

2. ***Invited Presentations Session. Each presentation is 45 min including time for questions.***

3. ***Contributed Science Reports. Each report is 20 min including time for questions.***

Please see the following website for any updates to this agenda and instructions on how to join the meeting virtually:

https://ceres.larc.nasa.gov/science-team-meetings2.php

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.

Self-Pay Dinner: 6:30 pm Tuesday Evening
(*Serafina West 105, 2737 Broadway, New York, NY. Corner of 105th and Broadway)*

Tuesday, October 17

CERES Technical Session

8:00 am	**Registration**	
8:55 am	Welcome/Meeting Logistics	*N. Loeb*
9:00 am	State of CERES	*N. Loeb*
9:30 am	CERES FM1-FM6 Instrument Update	*M. Shankar*
10:15 am	CERES Clouds Working Group Report	*B. Smith*
10:45 am	**Break**	
11:15 am	CERES Angular Distribution Model (ADM) Working Group Report	*W. Su*
11:45 am	Surface Atmospheric Radiation Budget (SARB) Working Group Update	*Ham/Kato*
12:05 pm	**Lunch**	
1:45 pm	Time Interpolation and Spatial Averaging (TISA) Working Group: Update	*D. Doelling*
2:15 pm	EBAF Surface Update	*S. Kato*
2:35 pm	FLASHFlux Update	*P. Stackhouse*
2:55 pm	CERES Data Management Team (DMT) Working Group Report	*K. Dejwakh*
3:25 pm	**Break**	

Contributed Science Presentations

3:55 pm	Evaluation of the GERB-4 dataset: Jan 2018–Feb 2023	*C. Clerbeaux*
4:15 pm	Athena Sensorcraft Technology Demonstration Mission Update/path to launch	*K. Priestley*
4:35 pm	Documenting the Spectral Character of Earth's Emission with PREFIRE	*T. L'Ecuyer*
4:55 pm	Libera Mission Status Update	*P. Pilewski*
5:15 pm	**Adjourn**	
6:30 pm	**Self-Pay Dinner: Serafina West 105**	

Wednesday, October 18

Invited Science Presentations

9:00 am	Elevating the Decomposition of Earth's Radiation Budget Changes as a Tool for Climate Monitoring	*R. Kramer*
9:45 am	Trends in CERES, MODIS and NASA ModelE: Which trends are caused by aerosols and/or cloud feedback?	*S. Bauer*
10:30 am	Global Warming in the Pipeline	*J. Hansen*
11:15 am	**Break**	

Contributed Science Presentations

11:45 am	Sparse, Empirically Optimized Quadrature for Broadband Radiative Fluxes and Heating Rates	*P. Czarnecki*
12:05 pm	The Water Vapor Continuum Creates Nonlinearities in the Sensitivity of Mean Precipitation to Surface Temperature	*S. Cohen*
12:25 pm	**Lunch**	
2:00 pm	Zonal cloud property trends during the satellite era and their radiative signatures	*G. Tselioudis*
2:20 pm	Cloud Zonal Trends Observed by CALIPSO-CloudSat and MODIS	*S.-H. Ham*
2:40 pm	Evaluation of stratocumulus and shallow cumulus clouds and feedbacks in CMIP6 and CMIP5 models	*G. Cesana*
3:00 pm	Cloud Radiative Effect anomalies associated with MODIS Regimes of Regimes	*L. Oreopoulos*
3:20 pm	**Break**	
3:40 pm	Using Flux by Cloud Type Data to Study Convective Aggregation in the Tropics	*K.-M. Xu*
4:00 pm	Isolating the cloud response to sea ice loss: An observational estimate of the cloud-sea ice feedback	*P. Taylor*
4:20 pm	Enabling land surface applications with CERES radiative fluxes: A SERVIR perspective	*B. Roberts*
4:40 pm	The co-variations of tropical temperature and humidity across multiple timescales and their implication on the estimation of surface radiation budget	*X. Huang*
5:00 pm	**Adjourn**	

Thursday, October 19
Contributed Science Presentations

9:00 am	Validation of CERES CRS data product at Siple Dome, Antarctica	*D. Rutan*
9:20 am	Two-habit ice cloud model update and the scattering-angle dependence of retrieved ice cloud optical thicknesses	*J. Coy*
9:40 am	Dark Target/Deep Blue Aerosol Retrieval Merge for VIIRS SNPP and NOAA-20	*V. Sawyer*
10:00 am	Global Evaluation of Reanalysis Surface Temperatures and Station Observations in All-sky Conditions for use in CERES	*B. Scarino*
10:20 am	Ice-Over-Water Cloud Identification and Properties in an Artificial Neural Network Approach	*S. Sun-Mack*
10:40 am	**Break**	
11:10 am	CLARA-A3 data record released: 40 years of shortwave and longwave TOA fluxes	*T. Akkermans*
11:30 am	CLAAS4 TOA product: a new climate data record from MSG data	*M. Moutier*
11:50 am	Trends and variability in Earth's Energy Imbalance	*M. Hakuba*
12:10 am	The Libera Camera as a Tool for Rapid Angular Distribution Model Generation	*J. Gristey*
12:30 pm	**Adjourn**	