

# 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 105<sup>th</sup> and Broadway)

# Tuesday, October 17

## CERES Technical Session

<b>8:00 am</b>	<b>Registration</b>	
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>M. Shankar</i>
10:15 am	CERES Clouds Working Group Report	<i>B. Smith</i>
<b>10:45 am</b>	<b>Break</b>	
11:15 am	CERES Angular Distribution Model (ADM) Working Group Report	<i>W. Su</i>
11:45 am	Surface Atmospheric Radiation Budget (SARB) Working Group Update	<i>Ham/Kato</i>
<b>12:05 pm</b>	<b>Lunch</b>	
1:45 pm	Time Interpolation and Spatial Averaging (TISA) Working Group: Update	<i>D. Doelling</i>
2:15 pm	EBAF Surface Update	<i>S. Kato</i>
2:35 pm	FLASHFlux Update	<i>P. Stackhouse</i>
2:55 pm	CERES Data Management Team (DMT) Working Group Report	<i>K. Dejwakh</i>
<b>3:25 pm</b>	<b>Break</b>	
	<b>Contributed Science Presentations</b>	
3:55 pm	Evaluation of the GERB-4 dataset: Jan 2018–Feb 2023	<i>C. Clerbeaux</i>
4:15 pm	Athena Sensorcraft Technology Demonstration Mission Update/path to launch	<i>K. Priestley</i>
4:35 pm	Documenting the Spectral Character of Earth's Emission with PREFIRE	<i>T. L'Ecuyer</i>
4:55 pm	Libera Mission Status Update	<i>P. Pilewski</i>
<b>5:15 pm</b>	<b>Adjourn</b>	
<b>6:30 pm</b>	<b>Self-Pay Dinner: Serafina West 105</b>	

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