

Agenda

CERES Science Team Meeting

Pearl Young Theater, Building 2102
NASA Langley Research Center, Hampton, VA
May 14-16, 2024

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
 - Data Management Team Update: Terra/Aqua/S-NPP/NOAA-20
 - Atmospheric Sciences Data Center (ASDC) Update
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.***

To join the meeting virtually, please follow instructions in the following website:

<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
(Monsoon Indian Bistro. Peninsula Town Center, 2150 Allainby Way, Hampton)

Tuesday, May 14

CERES Technical Session

8:00 am	Registration at Badge and Pass Office	
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	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	Lunch	
1:30 pm	Surface Atmospheric Radiation Budget (SARB) Working Group Update	<i>Kato/Ham</i>
2:00 pm	Time Interpolation and Spatial Averaging (TISA) Working Group: Update	<i>D. Doelling</i>
2:30 pm	Break	
3:00 pm	FLASHFLUX Update	<i>P. Stackhouse</i>
3:30 pm	CERES Data Management Team (DMT) Working Group Report	<i>K. DeJwakh</i>
4:00 pm	NASA GLOBE Clouds: One Million Satellite Matches and Counting	<i>M.C. Robles</i>
4:20 pm	Adjourn	
6:30 pm	Dutch Treat Dinner: Monsoon Indian Bistro	

Wednesday, May 15

Invited Science Presentations

- 9:00 am Testing hypotheses for maintaining Earth's hemispheric albedo symmetry with CERES observations of natural experiments *M. Diamond*
- 9:45 am Radiative buffering of extratropical forcing and feedback *D. McCoy*

10:30 am Break

Contributed Science Presentations

- 11:00 am Earth Radiation Budget Continuity *N. Loeb*
- 11:20 am DEMETER: The next-generation observational platform for measuring ERB *A. Ashraf*
- 11:40 am Overview of the BroadBand Radiometer instrument on EarthCARE, its products and plans for the commissioning *N. Clerbeaux*

12:00 pm Lunch

- 1:30 pm ENSO radiative feedbacks and their possibility as an emergent constraint *T. Hanke*
- 1:50 pm An update of OLR trend in the last two decades: what do CERES, AIRS, and CrIS tell us all together *X. Huang*
- 2:10 pm What factors explain the current arctic albedo and its future change? *D. Kim*
- 2:30 pm Cloud Radiative Effects in "Clear Sky": From spectral high-resolution radiance to broadband fluxes *E. Eytan*

2:50 pm Break

- 3:20 pm Testing the active-passive ice cloud property retrieval consistency of the new THM and a new temperature-dependent database *J. Coy*
- 3:40 pm Single-FOV Uncertainty Estimates of the VIIRS+CrIS Fusion Radiance Products *E. Borbas*
- 4:00 pm A Machine Learning Approach to Determine Surface Radiative Fluxes based on CERES Footprint Observations at Low Latency *J. Garg*
- 4:20 pm SARB Edition 5 Aerosol Products *D. Fillmore*

4:40 pm Adjourn

Thursday, May 16

Contributed Science Presentations (Cont'd)

9:00 am	An overview of the Arctic Radiation-Cloud-aerosol-Surface Interaction eXperiment (ARCSIX)	P. Taylor
9:20 am	CERES-only machine learning data product: Overview and recent progress	T. Wong
9:40 am	Status of MODIS and VIIRS Instruments and L1B Products	X. Xiong
10:00 am	CRAVE Operations and Some Challenges at Granite Island	B. Fabbri
10:20 am	The correlated-k method for the gas absorption in the CERES Ed5 flux calculations	S.-H. Ham
10:40 am	Adjourn	