

Agenda

CERES/Libera Joint Science Team Meeting

May 11-13, 2021

Virtual Meeting

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

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

Major Objectives for the Meeting:

- 1. *Review status of CERES Instruments and Data Products:***
 - Status of CERES
 - NASA HQ Update
 - CERES FM1-FM6 Calibration Update
 - MODIS, VIIRS GEO Cloud Algorithm & Validation Status
 - ADM, SARB, TISA and FLASHFlux Working Group Reports
 - Reintroducing the Cloud Radiative Swath (CRS) Product
 - Data Management Team Update: Terra/Aqua/S-NPP/NOAA-20
 - Atmospheric Sciences Data Center (ASDC) Update
 - Outreach Update
- 2. *Status of Libera Project***
- 3. *Invited Presentations Session. Each presentation is 45 min including time for questions.***
- 4. *Contributed Science Reports. Each report is 20 min including time for questions.***

Please send an electronic copy of your presentation to Ed Kizer (edward.a.kizer@nasa.gov) at least one day prior to your presentation

Tuesday, May 11

CERES Technical Session

10:00 am	State of CERES	<i>N. Loeb</i>
10:20 am	CERES FM1-FM6 Instrument Update	<i>M. Shankar</i>
10:50 am	CERES Clouds Working Group Report	<i>B. Smith</i>
11:20 am	CERES Angular Distribution Model (ADM) Working Group Report	<i>W. Su</i>
11:50 am	Lunch	
1:00 pm	Surface Atmospheric Radiation Budget (SARB) Working Group Update	<i>S. Kato</i>
1:30 pm	Time Interpolation and Spatial Averaging (TISA) Working Group: Update	<i>D. Doelling</i>
2:00 pm	Cloud Radiative Swath (CRS) Validation & Improvements to FLASHFlux via Machine Learning	<i>R. Scott</i>
2:20 pm	FLASHFlux Update	<i>P. Stackhouse</i>
2:40 pm	CERES Data Management Team (DMT) Working Group Report	<i>K. DeJwakh</i>
3:10 pm	Break	

Libera Technical Session

3:30 pm	Libera Mission Status Update and Synergy with other Missions	<i>P. Pilewskie</i>
4:00 pm	The Libera Instrument and Calibration and Characterization Concepts	<i>D. Harber</i>
4:30 pm	Motivation, characteristics, and use of the Libera wide field of view camera	<i>S. Schmidt</i>
5:00 pm	Libera's split-solar irradiance inversion: concept and initial analysis	<i>J. Gristey</i>
5:30 pm	Libera's Split-shortwave Measurement: Applications in Climate Studies	<i>M. Hakuba</i>
6:00 pm	Adjourn	

Wednesday, May 12

Contributed Science Presentations

10:00 am	Earth's albedo symmetry and cloudiness	G. Datservis
10:20 am	An assessment of climate feedbacks in observations and climate models using different energy balance frameworks	A. Dessler
10:40 am	Radiative feedbacks associated with ENSO variability and implications for the cloud-feedback pattern effect	C. Proistosescu
11:00 am	Closure and attribution of the observed variability in the Earth's energy budget	T. Thorsen
11:20 am	Direct influence of solar spectral irradiance on the high-latitude surface climate	X. Huang
11:40 am	Why Can't We All Just ... — The 'Community-Consensus TSI Composite'	G. Kopp

12:00 pm Lunch

Invited Science Presentations

1:00 pm	Constraints on Low Cloud Feedbacks From Observed Climate Variability	<i>T. Myers</i>
1:45 pm	Ocean Warming, Anchoring Earth's Energy Imbalance	<i>G. Johnson</i>

2:30 pm Break

Contributed Science Presentations (Cont'd)

2:50 pm	Overview of Ice Mapping System (IMF)	S. Helfrich
3:10 pm	Discontinuities in GEOS-5.4.1 dataset and comparison to MERRA-2 and ERA-5	S.-H. Ham
3:30 pm	Plans and progress towards GMAO's next retrospective products GEOS-R21C and GEOS-IT	A. El Akkraoui
3:50 pm	Investigate the feedback mechanisms of Arctic clouds and radiation on Arctic Sea-Ice Changes	X. Dong
4:10 pm	Quantifying the uncertainties in CERES SYN1deg Arctic surface radiative fluxes using MOSAiC surface measurements	Y. Huang

4:30 pm Adjourn

Thursday, May 13

Contributed Science Presentations (Cont'd)

10:00 am	Distinguishing aerosol effects from meteorological impacts on low cloud properties over the global ocean	J. Norris
10:20 am	Thin, thinner, clear-sky. - A closer look at optically thin clouds in the trades	T. Mieslinger
10:40 am	Updates on the VIIRS+CrIS fusion radiance product	B. Baum
11:00 am	Evaluation of Himawari cloud properties using shiptrack measurements over Southern Ocean	B. Xi
11:20 am	Updates on the two habit model optical property database: Full resolution and improvements compared to previously developed databases	J. Coy
11:40 am	Break	
12:00 pm	CLOUD GAZE, data merging, and the Terminator project: GLOBE Clouds in 2021	B. Dodson
12:20 pm	Data versus theory update	M. Zagoni
12:40 pm	Trend in EEI During the CERES Period	N. Loeb
1:00 pm	Adjourn	