

# Agenda

## CERES Science Team Meeting

April 28-30, 2020

### 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, SOFA, SARB and TISA Working Group Reports
  - Data Management Team Update: Terra/Aqua/S-NPP/NOAA-20
  - Atmospheric Sciences Data Center (ASDC) Update
  - Outreach 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.***

***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, April 28

## CERES Technical Session

10:00 am	State of CERES	<i>N. Loeb</i>
10:20 am	NASA HQ Update	<i>D. Considine</i>
10:40 am	CERES FM1-FM6 Instrument Update	<i>M. Shankar</i>
<b>11:10 am</b>	<b>Break</b>	
11:30 am	CERES Clouds Working Group Report	<i>B. Smith</i>
12:00 pm	CERES Angular Distribution Model (ADM) Working Group Report	<i>W. Su</i>
<b>12:30 pm</b>	<b>Lunch</b>	
1:30 pm	Time Interpolation and Spatial Averaging (TISA) Working Group: Update	<i>D. Doelling</i>
2:00 pm	Surface Atmospheric Radiation Budget (SARB) Working Group Update	<i>S. Kato</i>
2:30 pm	FLASHFLUX Update	<i>P. Stackhouse</i>
<b>3:00 pm</b>	<b>Break</b>	
3:20 pm	EBAF Update	<i>N. Loeb</i>
3:35 pm	On Continuation of the Use of Daily TSI for CERES Processing	<i>S. Gupta</i>
3:50 pm	CERES Data Management Team (DMT) Working Group Report	<i>K. DeJwakh</i>
4:15 pm	Atmospheric Sciences Data Center (ASDC) Update	<i>J. Walter</i>
4:35 pm	The view of clouds from below and above with citizen science: The 2018 GLOBE Clouds Spring Data Challenge	<i>B. Dodson</i>
<b>4:55 pm</b>	<b>Break</b>	

# Wednesday, April 29

## Contributed Science Presentations

- |          |   |            |
|----------|---|------------|
| 10:00 am | GERB project status and latest GERB/CERES comparisons   | J. Russell |
| 10:20 am | Observations of the pattern effect in the CERES data and comparisons to climate model simulations | A. Dessler |
| 10:40 am | Cloud changes over the Pacific using A-train observations   | S.-H. Ham  |
| 11:00 am | Seasonally dependent impact of cloud longwave scattering on the polar climate and energy cycle    | X. Huang   |

## 11:20 am Break

- |          |  |              |
|----------|--|--------------|
| 11:40 am | The Far-Infrared Outgoing Radiation Understanding and Monitoring (FORUM) | M. Mlynczak  |
| 12:00 pm | Libera and Continuity of the ERB Climate Data Record                     | P. Pilewskie |
| 12:20 pm | Hyperspectral OLR Retrieval towards OLR CDR Production                   | H.-T. Lee    |

## 12:40 pm Lunch

## Invited Science Presentations

- |         |  |                        |
|---------|--|------------------------|
| 1:40 pm | Cloud feedbacks - the peculiar trajectory of global warming  | <i>S. Fueglistaler</i> |
| 2:25 pm | Role of atmospheric dynamics shifts in cloud radiative effect variability, and the resulting climate feedbacks | <i>G. Tselioudis</i>   |

## 3:10 pm Break

## Contributed Science Presentations (Cont'd)

- |         |   |                             |
|---------|---|-----------------------------|
| 3:20 pm | Progress in simulating the optical properties of ice clouds and graupel/snow in support of the CERES Science Team | P. Yang                     |
| 3:40 pm | Quantifying the Effects of Downward Longwave Radiation on Low Clouds  | C. Macpherson/<br>J. Norris |
| 4:00 pm | Low-level cloud properties over southern ocean using multi-platform measurements                                  | B. Xi                       |

## 4:20 pm Adjourn

## Thursday, April 30

### Contributed Science Presentations (Cont'd)

10:00 am	Status and Assessment of MODIS-like IR Absorption Channel Radiance Product for VIIRS based on VIIRS-CrIS Fusion	B. Baum
10:20 am	Dark-target aerosol algorithm: status of products from Terra, Aqua, and Suomi-NPP	R. Levy
10:40 am	Evaluation of satellite cloud retrievals against airborne observations in heterogeneous cloud fields and near the scan edge	D. Painemal
11:00 am	Assessment of MODIS and GOES-16 low-level cloud top height using CALIOP	Z. Li
<b>11:20 am</b>	<b>Break</b>	
11:40 am	A Solution for the Tower Effect on Upwelling Longwave Radiation at COVE “Hiatus”	B. Fabbri
12:00 pm	A Machine-Learning approach to the estimation of CERES TOA fluxes	B. Thampi
12:20 pm	Patterns in the CERES Global Mean Data, Part 4. From Schwarzschild (1906) to CERES (2019): Laws Behind the Rules (Patterns Explained)	M. Zagoni
<b>12:40 pm</b>	<b>Adjourn</b>	