

# Agenda

## CERES Science Team Meeting

Pearl Young Theater, Building 2102  
NASA Langley Research Center, Hampton, VA  
May 7-9, 2019

### Major Objectives for the Meeting:

1. *Review status of CERES Instruments and Data Products:*
  - Status of CERES
  - CERES Terra, Aqua, S-NPP SW/LW/TOTAL Channel Calibration Update
  - CERES FM6 Performance
  - MODIS & VIIRS Cloud Algorithm & Validation Status
  - ADM, SOFA, SARB and TISA Working Group Reports
  - Upcoming Changes in EBAF Ed4.1
  - 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.*

### 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.*

**Dutch Treat Dinner: 6:30 pm Tuesday Evening**  
*(Monsoon Indian Bistro. Peninsula Town Center, 2150 Allainby Way, Hampton)*

# Tuesday, May 7

## CERES Technical Session

<b>8:00 am</b>	<b>Registration at Badge and Pass Office</b>	
8:55 am	Welcome/Meeting Logistics	<i>N. Loeb</i>
9:00 am	State of CERES	<i>N. Loeb</i>
9:20 am	NASA HQ Update	<i>D. Considine</i>
9:30 am	CERES FM1-FM6 Instrument Update	<i>K. Priestley/ S. Thomas</i>
<b>10:15 am</b>	<b>Break</b>	
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	Status of the Surface Surface-Only Flux Algorithms	<i>D. Kratz</i>
<b>12:00 pm</b>	<b>Lunch</b>	
1:30 pm	Time Interpolation and Spatial Averaging (TISA) Working Group: Update	<i>D. Doelling</i>
1:40 pm	TISA: Monthly FluxbyCloudType Product	<i>M. Sun</i>
1:55 pm	TISA: MODIS to VIIRS Radiometric Scaling Factors	<i>R. Bhatt</i>
2:10 pm	Surface Atmospheric Radiation Budget (SARB) Working Group Update	<i>S. Kato</i>
2:40 pm	Upcoming Changes in EBAF Ed4.1	<i>N. Loeb</i>
<b>3:00 pm</b>	<b>Break</b>	
3:30 pm	FLASHFLUX Update	<i>P. Stackhouse</i>
3:50 pm	CERES Data Management Team (DMT) Working Group Report	<i>K. Moore Dejwakh</i>
4:10 pm	Atmospheric Sciences Data Center (ASDC) Update	<i>C. Harris</i>
<b>4:30 pm</b>	<b>Adjourn</b>	
<b>6:30 pm</b>	<b>Dutch Treat Dinner: Monsoon Indian Bistro</b>	

# Wednesday, May 8

## Invited Science Presentations

- 9:00 am Radiation Variability in Regional Climate: The Cases of Tropical and Arctic Interannual Variations *Y. Huang*
- 9:45 am Low-level Cloud Feedback Estimated from CERES Co-Variability with Meteorology *J. Norris*

## 10:30 am Break

## Contributed Science Presentations

- 11:00 am The Spectral Dimension of Arctic Outgoing Longwave Radiation and Greenhouse Efficiency Trends from 2003-2016 *C. Peterson*
- 11:20 am Construction of MODIS-like Infrared Absorption Channels for VIIRS based on VIIRS-CrIS Fusion: Impact on Cloud Property Retrievals *B. Baum*
- 11:40 am West Antarctic Surface Melt: Energy Budget, Meteorological Drivers, and Large-Scale Climate Forcing *R. Scott*

## 12:00 pm Lunch

- 1:30 pm Evaluating CERES TOA Flux using ARISE aircraft observations *P. Taylor*
- 1:50 pm Application of a two-layer snow model to shortwave energy budget calculations *P. Yang*
- 2:10 pm Diurnally Integrated two- and four-stream biases in computed SW irradiances using Monte Carlo method *S.-H. Ham*

## 2:30 pm Break

- 3:00 pm GMAO Development Status and Reanalysis Plans *M. Bosilovich*
- 3:20 pm Representation of Top-of-Atmosphere Earth Radiation Budget Changes in Current Reanalysis *H. Wang*
- 3:40 pm Status of GERB-2 (over the Indian Ocean) products and validation *J. Moreels*
- 4:00 pm Status of GERB-3 and GERB-4 products and validation *C. Aebi*

## 4:20 pm Adjourn

## Thursday, May 9

### Contributed Science Presentations (Cont'd)

9:00 am	Status of Terra/Aqua MODIS and NPP/N20 VIIRS	<i>A. Angal</i>
9:20 am	Updates to the VIIRS Dark Target Aerosol Retrieval	<i>V. Sawyer</i>
9:40 am	Aerosol Assimilation into CERES data Processing, Comparisons of MODIS & VIIRS Dark Target and Deep Blue Algorithms	<i>D. Rutan</i>
10:00 am	Using collocated AIRS and CERES observations to quantify reanalysis biases over the entire globe	<i>X. Huang</i>
<b>10:20 am</b>	<b>Break</b>	
10:50 am	Vertical profiles of MBL cloud microphysical properties	<i>B. Xi</i>
11:10 am	Patterns in the CERES Global Mean Data, Part 3. Total Solar Irradiance, SYN1deg, and Net Balancing	<i>M. Zagoni</i>
11:30 am	Clouds and Contrails: Citizen Science Observations Collocated to Satellite Data	<i>B. Dodson</i>
<b>11:50 am</b>	<b>Adjourn</b>	