

# Agenda

## CERES Science Team Meeting

Pearl Young Theater, Building 2102  
NASA Langley Research Center, Hampton, VA  
May 5-7, 2015

### Major Objectives for the Meeting:

- 1. *Review status of CERES Instruments and Data Products:***
  - Status of CERES
  - CERES Terra, Aqua and S-NPP SW/LW/TOTAL Channel Calibration Update
  - CERES FM6 and RBI Update
  - MODIS & VIIRS Cloud Algorithm & Validation Status
  - ADM, SOFA, SARB and TISA Working Group Reports
  - FLASHFLUX Update
  - EBAF Update
  - Data Management Team Update: Terra/Aqua/S-NPP
  - Atmospheric Sciences Data Center (ASDC) Update
  - CERES Communication Activities
- 2. *Invited Presentations Session:*** On the creation & improvement of key ancillary datasets used to generate CERES Earth radiation budget climate data records:
  - Aerosol retrievals from MODIS & VIIRS
  - GMAO reanalysis data
- 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**  
**(Venue: Baci Italiano Ristorante. Peninsula Town Center, Kilgore Ave., Hampton)**

# Tuesday, May 5

NASA Langley Research Center, Hampton, VA

## 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>
9:30 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>P. Minnis</i>
11:15 am	CERES Angular Distribution Model (ADM) Working Group Report	<i>W. Su</i>
11:45 am	Status of the SOFA Validation and TSI Measurements	<i>D. Kratz</i>
<b>12:05 pm</b>	<b>Lunch</b>	
1:35 pm	Surface Atmospheric Radiation Budget (SARB) Working Group Update	<i>S. Kato</i>
2:05 pm	Time Interpolation and Spatial Averaging (TISA) Working Group Report	<i>D. Doelling</i>
2:35 pm	CERES Fast Longwave and Shortwave Fluxes (FLASHFLUX) Update	<i>P. Stackhouse</i>
2:55 pm	CERES Energy Balanced and Filled (EBAF) Edition4 Plans	<i>N. Loeb</i>
<b>3:15 pm</b>	<b>Break</b>	
3:45 pm	CERES Data Management Team (DMT) Working Group Report	<i>J. Gleason</i>
4:15 pm	Atmospheric Sciences Data Center (ASDC) Update	<i>J. Kusterer</i>
4:35 pm	CERES Education and Outreach Overview	<i>S. Crecelius</i>
<b>4:55 pm</b>	<b>Adjourn</b>	

# Wednesday, May 6

NASA Langley Research Center, Hampton, VA

## Contributed Science Presentations

8:30 am	Correction of directional effects of incident radiation on ocean surface emissivity for CERES longwave irradiance computations	<i>S.-H. Ham</i>
8:50 am	A global database of spectral surface emissivity for the entire longwave spectrum: development, validation, and application	<i>X. Huang</i>
9:10 am	Diurnal differences in OLR climatologies and anomaly time series	<i>J. Susskind</i>
9:30 am	A study of GERB shortwave calibration evolution: a cross-comparison study with CERES	<i>R. Parfitt</i>
9:50 am	ERBS tilted nonscanner update	<i>T. Wong</i>
<b>10:10 am</b>	<b>Break</b>	
10:40 am	Using CERES data to constrain climate sensitivity	<i>A. Dessler</i>
11:00 am	Constraining climate model ensemble projections using radiation process-oriented performance metrics	<i>N. Baker</i>
11:20 am	The role of DYNAMO observations in improving GMAO reanalysis and CERES-like surface atmosphere radiation estimation	<i>H. Wang</i>
11:40 am	Evaluation of MERRA using CERES EBAF	<i>L. Hinkelman</i>
<b>12:00 pm</b>	<b>Lunch</b>	
	<b>Invited Science Presentations</b>	
1:30 pm	Introduction	<i>N. Loeb</i>
1:40 pm	Creating a consistent aerosol optical depth record from MODIS and VIIRS	<i>R. Levy</i>
2:25 pm	Status of GMAO Reanalysis and Future Plans	<i>M. Bosilovich</i>
<b>3:10 pm</b>	<b>Break</b>	
3:40 pm	Day-night differences in AIRS version-6 water vapor	<i>J. Susskind</i>

3:55 pm	MERRA-2/AIRS/MODIS Temperature/Humidity Comparisons	<i>S. Kato/F. Rose</i>
4:15 pm	Discussion and Next Steps	
	<b>Contributed Science Presentations</b>	
4:35 pm	SARB aerosol datasets-assimilation of Terra MODIS, Aqua MODIS and NPP VIIRS MODIS-Like AOD	<i>D. Fillmore</i>
4:55 pm	Global warming, tropical expansion and ENSO in OLR—a QC benchmark exercise	<i>H.-T. Lee</i>
5:15 pm	On the sensitivity of the diurnal cycle in the Amazon to convective intensity	<i>K. Itterly</i>
<b>5:35 pm</b>	<b>Adjourn</b>	

# Thursday, May 7

NASA Langley Research Center, Hampton, VA

## Contributed Science Presentations (Cont'd)

8:30 am	A New Parameterization of Ice Cloud Radiative Properties	<i>P. Yang/Minnis</i>
8:50 am	New global estimates of cloud ice and liquid water path from MODIS using a profiling method	<i>W.L. Smith</i>
9:10 am	Build 3D Cloud Properties with A-Train C3M Data	<i>S. Sun-Mack</i>
9:30 am	The capabilities of lidar datasets for radiative heating rate and flux calculations	<i>T. Thorsen</i>
9:50 am	A CERES-Consistent Cloud Property Climate Data Record Using AVHRR Data: Version 1 Delivery Results	<i>C. Bedka</i>
<b>10:10 am</b>	<b>Break</b>	
10:40 am	A Radiation Closure Study of Arctic Cloud Properties	<i>X. Dong</i>
11:00 am	The influence of sea ice on Arctic low cloud properties and radiative effects	<i>P. Taylor</i>
11:20 am	Evaluation of the Arctic Radiation Budget in CMIP5 Models	<i>R. Boeke</i>
11:40 am	Preliminary ARISE Comparisons	<i>J. Corbett</i>
<b>12:00 pm</b>	<b>Adjourn</b>	