

Agenda

CERES Science Team Meeting

Pearl Young Theater, Building 2102
NASA Langley Research Center, Hampton, VA
May 15-17, 2018

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
 - Ed2 SNPP Products: Aerosol Data Source? Include CrIS Input Data?
 - Data Management Team Update: Terra/Aqua/S-NPP/NOAA-20
 - Atmospheric Sciences Data Center (ASDC) Update
 - Education Outreach Activities
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 15

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>
9:20 am	2017 Decadal Survey & ERB EV-C	<i>D. Considine</i>
9:30 am	CERES FM1-FM6 Instrument Update	<i>K. Priestley/ S. Thomas</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	Validation of the Surface-Only Flux Algorithms	<i>D. Kratz</i>
12:05 pm	Lunch	
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	Aerosol Data Product Intercomparison	<i>D. Rutan</i>
2:55 pm	Should CrIS Be Used to Supplement VIIRS in CERES SNPP Cloud Processing?	<i>B. Smith</i>
3:15 pm	Break	
3:45 pm	FLASHFLUX Update	<i>P. Stackhouse</i>
4:05 pm	CERES Data Management Team (DMT) Working Group Report	<i>K. Moore</i>
4:25 pm	Atmospheric Sciences Data Center (ASDC) Update	<i>J. Walter</i>
4:45 pm	Education Outreach: The Crowd Source Clouds Data	<i>B. Dodson</i>
5:05 pm	Adjourn	

Wednesday, May 16

Invited Science Presentations

- 9:00 am Time dependence of cloud feedback and its implications for climate sensitivity *M. Zelinka*
- 9:45 am Challenges in inferring radiative feedbacks from observations of Earth's energy budget *K. Armour*

10:30 am Break

Contributed Science Presentations

- 11:00 am An estimate of equilibrium climate sensitivity from interannual variability *A. Dessler*
- 11:20 am Spectrally resolved cloud radiative feedbacks from model and from observation: some thoughts on the kernel approaches *X. Huang*

11:40 am Lunch

- 1:30 pm Observation-based decomposition of radiative perturbations and radiative kernels *T. Thorsen*
- 1:50 pm Decomposition of TOA shortwave flux variability into atmospheric and surface contributions: an evaluation of reanalyses and GCM simulations using CERES observations *H. Wang*
- 2:10 pm Analysis of Convective Aggregation from CERES Data *K.-M. Xu*
- 2:30 pm The Peculiar Negative Greenhouse Effect *S. Sejas*

2:50 pm Break

- 3:20 pm GMAO Status and plans *M. Bosilovich*
- 3:40 pm Shortwave broadband irradiance biases due to subpixel variability *S.-H. Ham*
- 4:00 pm Effects of linear versus large footprint sampling on measured radiative heating rate and cloud water content profiles: CALIOP vs CERES scale *L. Hinkelman*
- 4:20 pm Assessing the Consistency of Radiative Fluxes and Heating Rate Profiles of Single-layer Ice Clouds from an A-Train Perspective *E. Dolinar*
- 4:40 pm Meridional progression of interannual oscillations in summertime Arctic TOA fluxes *D. Wu*

5:00 pm Adjourn

Thursday, May 17

Contributed Science Presentations (Cont'd)

9:00 am	A surface energy budget approach to understanding the CMIP5 inter-model spread in Arctic Amplification	<i>P. Taylor</i>
9:20 am	A Case Study of the Unprecedented 2016/17 Arctic Sea Ice Growth Season: the Influence of Atmospheric Water Vapor Content Anomalies through the Surface Radiation Budget	<i>B. Hegyi</i>
9:40 am	Development of a two-layer snow albedo model: Preliminary results and future perspectives	<i>P. Yang</i>
10:00 am	Developing an AVHRR-based CDR of TOA radiative fluxes within the CMSAF Project	<i>T. Akkermans</i>
10:20 am	Patterns in the CERES Global Mean Data. Part 2: Physical Basis	<i>M. Zagoni</i>
10:40 am	Break	
11:10 am	Evaluation of radiative fluxes estimated using Machine learning methods and that from CERES/ERBE	<i>B. Thampi</i>
11:30 am	Evaluation of CERES-MODIS Ed4 Cloud Fraction, Cloud Phase Classification and Cloud Height with ARM Ground Observations	<i>B. Xi</i>
11:50 am	Enhancing multilayer cloud retrieval	<i>F.-L. Chang</i>
12:10 pm	Evaluation of MODIS cloud retrievals using CALIPSO observations	<i>C. Yost</i>
12:30 pm	Adjourn	