

Agenda

CERES Science Team Meeting

**Marriott Hotel
City Center at Oyster Point, Newport News VA
April 26-28, 2011**

Major Objectives for the Meeting:

1. *Review status of CERES Instruments and Data Products:*

- State of CERES/2011 Senior Reviews/NPP Update
- CERES Instrument Status: Terra, Aqua, NPP and beyond.
- Edition 3 Processing Update.
- Towards Edition 4 Algorithm Improvements: Clouds, Angular Distribution Models, Computed and Parameterized Surface Fluxes, Time-space Averaging.
- Data Management Team Update: Terra/Aqua/NPP
- Atmospheric Sciences Data Center (ASDC) Update
- CERES Education Outreach

2. *CERES-specific Science Reports. Invited presentations are 45 min. Contributed science presentations are 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 Jim Closs (james.w.closs@nasa.gov) either before or following the meeting. Desired format is a pdf document.

**Dutch Treat Dinner: 6:30pm Tuesday Evening
(Red Star Tavern. Across from Marriott on other side of fountain)**

Tuesday, April 26

Marriott Hotel City Center at Oyster Point

8:00 am Coffee/Danish

- 8:30 am Meeting Logistics, Welcome *N. Loeb*
- 8:40 am State of CERES/Latest CERES & Argo Ocean Heat Storage Comparisons/Tribute to Jim Coakley Upon his Retirement *N. Loeb & Special Guests*
- 9:40 am CERES FM1-FM6 Instrument Status Report *K. Priestley*

10:10 am Break

- 10:40 am Update on CERES Cloud Algorithm/Validation Results *P. Minnis*
- 11:10 am Towards Improved CERES Angular Distribution Models *W. Su*
- 11:40 am Status of the CERES Surface-Only Flux Algorithms for Edition 4 *D. Kratz*
- 12:00 pm Surface and Atmosphere Radiation Budget (SARB) Calculations for CRS Edition 4 *T. Charlock*

12:30 pm Lunch

- 2:00 pm Time-Space Averaging Update *D. Doelling*
- 2:25 pm The CERES FluxbyCloudType Product for Climate Model Evaluation *M. Sun*
- 2:40 pm The Broadband World at TOA and Surface According to CERES/SYNI – How Important are Differences Between MODIS, Geostationary and Interpolated Methods? *D. Rutan*

3:00 pm Break

- 3:30 pm CERES Data Management Team (DMT) Update *Jonathan Gleason*
- 4:00 pm Atmospheric Sciences Data Center (ASDC) Update *J. Kusterer*
- 4:20 pm CERES Education and Outreach Update *L. Chambers*

4:40 pm Adjourn

6:30 pm Dutch Treat Dinner: Red Star Tavern

Wednesday, April 27

Marriott Hotel City Center at Oyster Point

- 8:00 am **Coffee/Danish**
- 8:30 am **Working Group Sessions** *All*
Angular Modeling (Su et al.)
Surface to TOA Fluxes (Charlock et al.)
Cloud Properties (Minnis et al.)
- Science Reports**
- 9:30 am Factors Contributing to Variability in CERES Radiation Flux *J. Norris*
- 9:50 am How the Shortwave Cloud Feedback Makes Estimating Climate Sensitivity Difficult *A. Dessler*
- 10:10 am Break**
- INVITED PRESENTATIONS**
- 10:30 am South Atlantic Stratocumulus Clouds as a Feedback onto the Atlantic Meridional Mode *A. Evan*
- 11:15 am The Earth's Energy Budget and Climate Sensitivity *D. Murphy*
- 12:00 pm **Lunch**
- Science Reports**
- 1:30 pm Update on CMIP5 Observation Data Base *G. Potter*
- 1:50 pm The Seasonality and Interannual Variations of Band-by-Band CRF in the Tropics: Observations versus GCMs *X. Huang*
- 2:10 pm Radiative Effects of Arctic Sea Ice Retreat as Seen by CERES *K. Pistone*
- 2:30 pm Response of Deep Convective Clouds to Increases in Particle Burdens *J. Coakley*
- 2:50 pm The trend of Ozone Profile from 1978-2009 from SBUV/(2) *S. Yang*
- 3:10 pm Break**
- Science Reports: Continued**
- 3:30 pm First Decade of CERES/Terra Radiation Budget Data *T. Wong*
- 3:50 pm Using CERES Data to Improve Snowmelt Modeling *L. Hinkelman*
- 4:10 pm Validation of CERES-MODIS Cloud Properties Over Arctic Region Using ARM and Cloudsat/CALIPSO Observations *X. Dong*
- 4:30 pm Using CERES Observations to Help Correct Cloud 3D Radiative Effects on MODIS Aerosol Optical Thickness in the Vicinity of Clouds: A Case Study *G. Wen*
- 4:50 pm Adjourn**

Thursday, April 28

Marriott Hotel City Center at Oyster Point

8:00 am **Coffee/Danish**

Science Reports: Continued.

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| 8:30 am | Progress in CERES Clear-sky Aerosol Optical Thickness Dependent Angular Distribution Model over Ocean | <i>L. Liang</i> |
| 8:50 am | A "Direct" Estimation of Surface Solar Fluxes From CERES | <i>I. Laszlo</i> |
| 9:10 am | Toward Producing a Level 4 Surface (EBAF) Gridded Monthly Irradiance Product | <i>S. Kato</i> |
| 9:30 am | Controls on the Spatial and Seasonal Distribution of the Tropical Diurnal Cycle | <i>P. Taylor</i> |
| 9:50 am | Break | |
| 10:10 am | GERB Status and Related Activities | <i>Velazquez/Clerbeaux</i> |
| 10:30 am | Effects of the Mirror in the Unfiltering | <i>A. Velazquez</i> |
| 10:40 am | Presentation and Validation of the Spectral Ageing Model for Meteosat First Generation Visible Band | <i>I. Decoster</i> |
| 11:00 am | Assessment of Regional Climate Variability Using Satellite Radiation Measurements | <i>B. Lin</i> |
| 11:20 am | Action Items, Final Discussion | <i>N. Loeb</i> |
| 11:30 am | Adjourn | |