

# Agenda

## CERES Science Team Meeting

Marriott Hotel  
City Center at Oyster Point, Newport News VA  
May 6-8, 2008

### Major Objectives for the Meeting:

- 1. *Review status of CERES Instruments and Data Products:***
  - Status of NASA/U.S.CCSP/EOS/Senior Reviews and CERES on NPP and NPOESS
  - Terra and Aqua SW/LW/TOTAL channel calibration for Edition 3; CERES FM5, FM6 Update
  - Evaluation of GMAO G5-CERES Assimilated Global Datasets
  - Edition 3 cloud algorithm development and validation
  - CRS Edition 2 Validation
  - SRBAVG production of daily means in addition to monthly means
  - New ISCCP-like MODIS & GEO Data Products
  - SYN and AVG: the Level 3 Gridded Version of CRS Data Product
  - Extending SRBAVG, ISCCP-like-GEO and SYN/AVG/ZAVG to December 2007
  - New Adjusted SRBAVG Dataset for Climate Modelers
  - GEWEX Radiative Flux Assessment
  - GERB Status Update
  - EOSDIS Evolution Activities at the Langley DAAC: transition from LATIS and SGI toward ANGE and commodity cluster computing
- 2. *CERES specific Co-I Reports. Each report is 20min 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](mailto: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)*

## Tuesday, May 6

### *Marriott Hotel City Center at Oyster Point*

#### **8:00 am Coffee/Danish**

8:30 am Meeting Logistics, Welcome *Loeb/Wielicki*

8:40 am State of U.S. CCSP/EOS/CERES/NPP/NPOESS  
Decadal Study/A-train/NASA RTO/ASIC *B. Wielicki*

9:20 am Terra and Aqua SW/LW/TOTAL channel calibration for  
Edition 3 *K. Priestley*

#### **10:20 am Break**

10:40 am Edition 3 cloud algorithm development and validation *P. Minnis*

11:25 am Recent Improvements to the Surface Only Flux  
Algorithms (SOFA) *D. Kratz /S. Gupta*

11:40 pm CRS Validation and Analysis *T. Charlock*

#### **12:10 pm Lunch**

2:00 pm Time-Space Averaging Update *D. Doelling*

2:40 pm ISCCP D2-Like CERES Data Products *M. Sun*

#### **3:00 pm Break**

3:20 pm Adjusted CERES SRBAVG Dataset for Climate Modelers *N. Loeb*

3:40 pm GERB Update *Bertrand/Russell*

4:00 pm S'COOL *L. Chambers*

4:20 pm CERES Data Production Update *Lisa Coleman*

4:30 pm Status of the NASA Langley Atmospheric Science Data Center *John Kusterer*

#### **4:50 pm Adjourn**

**6:30 pm Dutch Treat Dinner: Red Star Tavern**

# Wednesday, May 7

*Marriott Hotel City Center at Oyster Point*

- 8:00 am **Coffee/Danish**
- 8:30 am **Working Group Sessions** *All*  
*Angular Modeling (Loeb et al.)*  
*Surface to TOA Fluxes (Charlock et al.)*  
*Cloud Properties (Minnis et al.)*
- INVITED PRESENTATIONS**
- 9:30 pm GEOS-5 Atmospheric Analyses for Climate Studies *M. Rienecker*
- 10:10 pm Break**
- 10:30 am Interannual Variability in the Tropical Water and Energy Cycles *B. Soden*
- 11:10 am Using Satellite Data to Evaluate the Present-Day Simulation of Clouds, Precipitation, and Radiation in Climate Models *R. Pincus*
- 11:50 pm **Lunch**
- Co-I Reports**
- 1:30 pm Gridded Cloud Object Data and Evaluation of ECMWF and ERA-40 Cloud Physical Properties *K.-M. Xu*
- 1:50 pm The 1997-1998 El Nino: Evaluating a Variety of Methods to Test Climate Model Response *G. Potter*
- 2:10 pm The Quest is On *B. Wielicki*
- 2:30 pm Far-Infrared Spectroscopy of the Troposphere (FIRST): Results from two flights, a ground campaign, and a view to the future *M. Mlynczak*
- 2:50 pm Band-By-Band Radiative Flux and Cloud Radiative Forcing: Derivation and Application in Climate Studies *X. Huang*
- 3:10 pm Assessing Clear Sky OLR with CERES and AIRS *L. Moy*
- 3:30 pm Break**
- 3:50 pm Evaluation of MODIS and VIIRS Aerosol Optical Depth Retrievals: An update *I. Laszlo/H. Liu*
- 4:10 pm The SURFRAD aerosol optical depth product and 10-year climatology *J. Augustine*
- 4:30 pm Validation of CERES-MODIS Cirrus Cloud Properties Using ARM Retrievals *X. Dong*
- 4:50 pm Adjourn**

## Thursday, May 8

*Marriott Hotel City Center at Oyster Point*

8:00 am **Coffee/Danish**

### **Co-I Reports: Continued.**

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|----------|---|-----------------------|
| 8:30 am  | Absolute Lunar Radiance Measurement Technique for CERES: Results and ERB Climate Stability Target Potential of the Moon | <i>G. Matthews</i>    |
| 8:50 am  | 2007 Arctic viewed from CERES and MODIS   | <i>S. Kato</i>        |
| 9:10 am  | Comparison of MOD04 and CALIPSO Cloud Mask and its Implication for the MOD04 Aerosol Product                            | <i>W. Sun</i>         |
| 9:20 am  | Weak Correlation of Ice Cloud Water Content with Millimeter Radar Cross-section   | <i>W. Sun</i>         |
| 9:30 am  | Enhanced Cloud Algorithm From Collocated CALIPSO, CloudSat and MODIS  | <i>S. Sun-Mack</i>    |
| 9:50 am  | <b>Break</b>  |                       |
| 10:10 am | Radiative Heating on the Atmosphere under Different Cloud Types Aerosol Retrieval                                       | <i>B. Lin</i>         |
| 10:30 am | Improving CERES Upper Thin and Multi-layered Cloud Retrievals: Uncertainty and Error Reduction                          | <i>F. Chang</i>       |
| 10:50 am | GEWEX Radiative Flux Assessment Update  | <i>Hinkelman/Wong</i> |
| 11:30 am | <b>Action Items, Final Discussion</b>   | <i>Loeb/Wielicki</i>  |
| 11:40 pm | <b>Adjourn</b>  |                       |