

# **Agenda**

## **Earth Radiation Budget Workshop 2012**

**22-25 October 2012, Geophysical Fluid Dynamics Laboratory (GFDL), Princeton, NJ**

### **Monday, October 22**

9:00 am–5:00 pm: CERES Technical Session

### **Tuesday, October 23**

9:00 am–12:00 pm: ScaRaB Technical Session

2:00 pm–5:30 pm: GERB Technical Session

### **Wednesday, October 24**

9:00 am–11:45 am: Invited Science Presentations

2:00 pm–5:00 pm: Contributed Science Presentations

### **Thursday, October 25**

9:00 am–5:00 pm: Contributed Science Presentations

# Monday, October 22

9:00 am Welcome, Meeting Logistics

*Leo Donner (GFDL)*

## CERES Technical Session

9:10 am State of CERES

*Norman Loeb (NASA)*

9:50 am CERES FM1-FM6 instrument update

*Kory Priestley (NASA)  
Susan Thomas (SSAI)*

**10:50 am Break**

11:20 am CERES Edition 4 Clouds Update

*Patrick Minnis (NASA)*

11:50 am Update on the Next Generation CERES ADMs

*Wenyng Su (NASA)*

**12:20 pm Lunch**

2:00 pm Status of the Ed4 Surface-Only Flux Algorithm

*David Kratz (NASA)*

2:20 pm Surface Atmospheric Radiation Budget (SARB)

*Seiji Kato (NASA)*

2:50 pm Time-Space Averaging Update

*Dave Doelling (NASA)*

**3:20 pm Break**

3:50 pm CERES Data Management Team Status

*Jonathan Gleason (NASA)*

4:20 pm Atmospheric Sciences Data Center (ASDC) Update

*Lindsay Parker (SSAI)*

4:40 pm S'COOL Update

*Sarah Crececius (SSAI)*

5:00 pm **Adjourn**

## Tuesday, October 23

### ScaRaB Technical Session

|                 |  |                                   |
|-----------------|--|-----------------------------------|
| 9:00 am         | Overview of Megha-Tropiques Mission                          | <i>Remy Roca<br/>(LEGOS)</i>      |
| 9:30 am         | The ScaRaB-3 Instrument & Performance                        | <i>Nadia Karouche<br/>(CNES)</i>  |
| 10:00 am        | <b>Break</b>   |                                   |
| 10:30 am        | Scarab, First Calibration Results                            | <i>Alain Rozach<br/>(CNES)</i>    |
| 11:00 am        | The Orbit of MT and Consequences for the Sampling            | <i>Michel Capderou<br/>(LMD)</i>  |
| 11:30 am        | Coincidence Campaign Between CERES and SCARAB: First Results | <i>Olivier Chomette<br/>(LMD)</i> |
| <b>12:00 pm</b> | <b>Lunch</b>   |                                   |

### GERB Technical Session

|         |   |                                       |
|---------|---|---------------------------------------|
| 1:30 pm | GERB Project Status: An Overview  | <i>Jacqui Russell<br/>(Imperial)</i>  |
| 1:45 pm | Calibration Report, Data Status and Future Planning                                       | <i>Jacqui Russell<br/>(Imperial)</i>  |
| 2:10 pm | Commissioning and Operations Status Report  | <i>James Rufus<br/>(Imperial)</i>     |
| 2:40 pm | GERB X-CAL Plans  | <i>Richard Bantges<br/>(Imperial)</i> |
| 3:00 pm | GGSPS Report: Evolution of the GERB Ground Segment Processing System                      | <i>Peter Allan<br/>(RAL)</i>          |
| 3:20 pm | <b>Break</b>  |                                       |
| 3:50 pm | ROLLS Report: Status of GERB Level 2 Instantaneous Fluxes and CM SAF Level 3 Monthly Mean | <i>Nicolas Clerbaux<br/>(RMIB)</i>    |
| 4:10 pm | Sunglint Filling: Status  | <i>Edward Baudrez<br/>(RMIB)</i>      |
| 4:40 pm | Composite TOA Clear-Sky Solar Fluxes for the GERB Processing                              | <i>Alessandro Ipe<br/>(RMIB)</i>      |
| 5:00 pm | Cloud Detection Using SEVIRI IR Channels for the GERB Processing                          | <i>Alessandro Ipe<br/>(RMIB)</i>      |
| 5:20 pm | Wrap Up and Actions   | <i>Jacqui Russell<br/>(Imperial)</i>  |
| 5:30 pm | <b>Adjourn</b>  |                                       |

## Wednesday, October 24

### Invited Science Presentations

- 9:00 am Recent Advances in Modeling Physical Processes in Climate Models: Implications for Global Space-Based Measurements *Leo Donner (GFDL)*
- 9:45 am Model vs Radiation Budget Associated with Inter-Annual Variability *Stephan Fueglistaler (Princeton University)*
- 10:30 am **Break**
- 11:00 am Some Issues Related to Feedback Analyses of Climate Sensitivity *Isaac Held (GFDL)*
- 11:45 am **Lunch**

### Contributed Science Presentations

- 1:30 pm An Update on the Spectral Flux Estimation from the Collocated AIRS and CERES Measurements *Xianglei Huang (U. Michigan)*
- 1:50 pm Variability of the TOA Flux Diurnal Cycle at Monthly Timescales *Patrick Taylor (NASA LaRC)*
- 2:10 pm Tropical clear-sky OLR variability studies from a simple model *Rodrigo Guzman (LMD)*
- 2:30 pm CERES Suomi NPP ERBE-like Monthly Mean Fluxes *Takmeng Wong (NASA LaRC)*
- 2:50 pm Computing Energy Transport from Radiation Budget *Lou Smith (SSAI)*
- 3:10 pm **Break**
- 3:40 pm Climate Monitoring with Earth Radiation Budget Measurements *Steven Dewitte (RMIB)*
- 4:00 pm Cloud radiation anomalies observed by CERES *Bing Lin (NASA LaRC)*
- 4:20 pm Cloud Radiative Forcing in the Indian Monsoon Region *Bijoy Thampi (LEGOS)*
- 4:40 pm Cloud-Radiation Response to Large-Scale Circulation Variability *Norman Loeb (NASA LaRC)*
- 5:00 pm **Adjourn**

# Thursday, October 25

## Contributed Science Presentations

|          |  |   |
|----------|--|---|
| 9:00 am  | Direct Aerosol Radiative Effect from C3M   | <i>Dave Winker<br/>(NASA LaRC)</i>        |
| 9:20 am  | Radiative Closure of CERES TOA SSF Fluxes Over Volcanic Ash Plumes Using MODIS, CCCM and MATCH                                 | <i>David Fillmore<br/>(Tech-X Corp.)</i>  |
| 9:40 am  | Retrieved Vertical Distribution of Saharan Dust and Comparison to Models Over the Northern Tropical Atlantic                   | <i>Weijie Wang<br/>(U. Virginia/SSAI)</i> |
| 10:00 am | Aerosol Optical Depth and Direct Aerosol Forcing Using SEVIRI/GERB   | <i>Stijn Nevens<br/>(RMIB)</i>            |
| 10:20 am | <b>Break</b>   |   |
| 10:50 am | Observations of the Net Direct Radiative Effect of Saharan Mineral Dust From SEVIRI and GERB                                   | <i>Catherine Ansell<br/>(Imperial)</i>    |
| 11:10 am | CERES Observations and MODIS Aerosol Retrieval in Broken Cloud Fields  | <i>Guoyong Wen<br/>(NASA GSFC)</i>        |
| 11:30 am | Progress in CERES Clear-sky Aerosol Optical Thickness Dependent Shortwave ADM over Ocean                                       | <i>Lusheng Liang<br/>(SSAI)</i>           |
| 11:50 am | Status of the BBR LW Radiance to Flux Baseline Conversion Algorithms   | <i>A. Velazquez<br/>(RMIB)</i>            |
| 12:10 pm | <b>Lunch</b>   |   |
| 1:30 pm  | CERES Ordering Tool - Highlights of Its Capabilities   | <i>Cristian Mitrescu<br/>(SSAI)</i>       |
| 1:50 pm  | Aging Model for Meteosat First Generation VIS Band   | <i>Ilse Decoster<br/>(RMIB)</i>           |
| 2:10 pm  | Comparisons of CERES FLASHFlux and EBAF TOA Fluxes   | <i>Shashi Gupta<br/>(SSAI)</i>            |
| 2:30 pm  | TISA LW Narrowband to Broadband Radiance Algorithm and CERES Simulator   | <i>Moguo Sun<br/>(SSAI)</i>               |
| 2:50 pm  | <b>Break</b>   |   |
| 3:20 pm  | EBAF Surface Product Updates   | <i>Fred Rose (SSAI)</i>                   |
| 3:40 pm  | Overview of CERES Ed4 Multilayer Cloud Properties  | <i>Fu-Long Chang<br/>(SSAI)</i>           |
| 4:00 pm  | CERES Clouds Edition4 Validation with C3M  | <i>Sunny Sun-Mack<br/>(SSAI)</i>          |
| 4:20 pm  | Macro- and Microphysical Properties of Low-Level Marine Stratus Retrieved by Ground-Based and Satellite Measurements at Azores | <i>Baike Xi<br/>(U. North Dakota)</i>     |
| 4:40 pm  | SIMBA the Nanosatellite  | <i>Steve Dewitte<br/>(RMIB)</i>           |
| 5:00 pm  | <b>Adjourn</b>   |   |