

Agenda

Earth Radiation Budget Workshop 2010

13-16 September 2010, École Normale Supérieure (ENS), Paris, France

Monday, September 13

9:00 am–5:10 pm: CERES Instrument/Algorithm/Validation Status

5:30 pm **Ice Breaker**

Tuesday, September 14

9:00 am–3:00 pm: GERB Instrument/Algorithm/Validation Status

3:30 pm–5:00 pm: ScaRaB Instrument/Algorithm/Validation Status

Wednesday, September 15

9:00 am–10:00 am: CERES/GERB/ScaRaB Synergy

10:30 am–5:10 pm: Invited & Contributed Science Presentations

Thursday, September 16

9:00 am–4:40 pm: Contributed Science Presentations

Posters on Display Throughout Meeting.

Poster #1: MODIS Aerosol Assimilation for CERES Edition 4 – David Fillmore (Tech-X Corporation)

Monday, September 13

9:00 am Welcome, Meeting Logistics *Rémy Roca (LMD)*

CERES Technical Session

9:10 am State of CERES/NASA/EOS/Senior Reviews/ CERES on NPP and JPSS/Decadal Survey Missions *Norman Loeb (NASA)*

9:50 am CERES Instrument and Calibration Status *Kory Priestley (NASA)*

10:20 am CERES FM1-FM4 Edition3 Calibration Update *Susan Thomas (SSAI)*

10:50 am Break

11:10 am CERES Edition 4 Cloud Properties *Patrick Minnis (NASA)*

11:50 am Recent Improvements in CERES Surface-Only Flux Algorithms: Implemented in Edition-3 and Preparing for Edition-4 *Gupta (SSAI)/Kratz (NASA)*

12:15 pm Lunch

2:00 pm Surface and Atmosphere Radiation Budget (SARB): CERES Fluxes using Calculations *Thomas Charlock (NASA)*

2:30 pm Time-Space Averaging Update *Dave Doelling (NASA)*

3:10 pm ISCCP-D2like Product Update *Moguo Sun (SSAI)*

3:30 pm Break

3:50 pm CERES Data Management Overview and Status *Jonathan Gleason (NASA)*

4:20 pm Atmospheric Sciences Data Center (ASDC) Update *Sue Sorlie (SSAI)*

4:40 pm S'COOL Update *Loeb/Chambers (NASA)*

5:00 pm **Action Items, Final Discussion** *Loeb*

5:10 pm **Adjourn**

5:30 pm **Ice Breaker**

Tuesday, September 14

GERB Technical Session

9:00 am	MSG & GERB 4 Programme Status	<i>Gary Fowler (EUMETSAT)/Nigel Morris (RAL)</i>
9:20 am	GERB Unit level spectral response measurement assessment	<i>Jacqui Russell (Imperial)</i>
9:40 am	GERB system level ground calibration	<i>Jon Murray (Imperial)</i>
10:10 am	GERB Ops report	<i>James Rufus (Imperial)</i>
10:40 am	Break	
11:00 am	GGSPS processing status report	<i>Andy Smith (RAL)</i>
11:30 am	RGP processing status report	<i>Nicolas Clerbaux (RMIB)</i>
12:00 pm	Intercomparison of GERB 1 and 2 data	<i>Richard Bantges (Imperial)</i>
12:30 pm	Lunch	
2:00 pm	GERB 1 Edition release & GERB 2 Edition calibration assessment	<i>Jacqui Russell (Imperial)</i>
2:30 pm	GERB product development plans and status	<i>Jacqui Russell (Imperial)</i>
3:00 pm	Break	

ScaRaB Technical Session

3:30 pm	Overview of Megha-Tropiques Mission	<i>Remy Roca (LMD)</i>
4:00 pm	The ScaRaB-3 Instrument	<i>Patrick Raberanto (LMD)</i>
4:30 am	The MT/ScaraB-3 algorithms and products	<i>Olivier Chomette (LMD)</i>
5:00 pm	Adjourn	

Wednesday, September 15

CERES/GERB/ScaRaB Instrument/Algorithm Validation Synergy

- 9:00 am The MT Orbit and its Angular Sampling *Michel Capderou (LMD)*
- 9:20 am CERES Special Operations for Comparison with Other ERB Instruments *Z. Peter Szewczyk (SSAI)*
- 9:40 am Time-Space Average Studies with CERES/GERB/ScaRaB *Dave Doelling (NASA)*
- 10:00 am **Break**

Invited Science Presentations

- 10:30 am Revisiting of the Greenhouse Effect Discovery and its Analysis *Jean-Louis Dufresne (LMD)*
- 11:15 am A New Era for the Evaluation of Climate Models *Sandrine Bony (LMD)*
- 12:00 pm **Lunch**

Contributed Science Presentations

- 1:30 pm Relationships Between Clouds, SST and Circulation Over the Tropical Oceans *Mark Ringer (UK Met Office)*
- 1:50 pm Using GERB, CERES and ScaRaB to Investigate Systematic Model Biases Relating to Cloud, Mineral Dust and Aircraft Contrails *Richard Allan (U. Reading)*
- 2:10 pm Key Parameters to Estimate the OLR Over Tropical Regions: Simple Models and Their Evaluation *Rodrigo Guzman (LMD)*
- 2:30 pm Climate Sensitivity and TOA Net Radiation in Short and Long Time Scales *Bing Lin (NASA)*
- 2:50 pm Use of ERB Data for Model Development, Evaluation and Feedback Studies at the Met Office *Mark Ringer (UK Met Office)*
- 3:10 pm **Break**

Wednesday, September 15 (Cont'd)

Contributed Science Presentations

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| 3:30 pm | Tropical Diurnal Cycle Using CERES Synoptic Data | <i>Patrick Taylor (NASA)</i> |
| 3:50 pm | Diurnal Variability of Cloud System Types as Seen from Terra and Aqua Satellites | <i>Kuan-Man Xu (NASA)</i> |
| 4:10 pm | Analysis of OLR in short timescale over Africa | <i>Kwun Chan (Imperial)</i> |
| 4:30 pm | Modeling of the Ageing Effects on Meteosat First Generation Visible Band | <i>Ilse Decoster (RMIB)</i> |
| 4:50 pm | Unfiltering Study for the EarthCARE BBR | <i>Almudena Velazquez Blazquez (RMIB)</i> |
| 5:10 pm | Proposal of flux retrieval methodologies for the BBR L2 baseline algorithms in the EarthCARE framework | <i>Carlos Domenech (Free U. Berlin)</i> |
| 5:30 pm | An Estimate of the Radiation Effect of Invisibly Thin Clouds | <i>Wenbo Sun (SSAI)</i> |
| 5:40 pm | Adjourn | |

Thursday, September 16

Contributed Science Presentations

- 9:00 am Analysis of Top-of-Atmosphere Radiation Budget from Multiple Data Sets *Takmeng Wong (NASA)*
- 9:20 am Extending TOA Radiation Back to 1978 Using Wide-Field-of-View Data *Edward Baudrez (RMIB)*
- 9:40 am TOA and Surface Radiation Budget Derived from CALIPSO, CloudSat, and MODIS Derived Cloud and Aerosol Properties *Seiji Kato (NASA)*
- 10:00 am A Multi-Variable Statistical Description of Clouds Over the Tropical Ocean Using A-Train High Spatial Resolution Observations to Assess Cloud Process Parameterizations in Climate Models *Helene Chepfer (LMD)*
- 10:20 am Mesoscale Convective Systems and the Radiation Budget in the Tropics *Rémy Roca (LMD)*
- 10:40 am **Break**
- 11:00 am The CM-SAF Meteosat-Based Climate Data Record for the Surface Solar Irradiance - Description and Evaluation *Joerg Trentmann (DWD)*
- 11:20 am NOAA's Plans for the Continuity of Earth Radiation Budget Observations and Climate Data Records *John Bates (NOAA)*
- 11:40 am Surface Net Fluxes from Broadband and Narrowband Observations: CERES and GOES-R/ABI *Istvan Laszlo (NOAA)*
- 12:00 am CERES/ARM Validation Experiment - CAVE - a Web Based Tool for Radiation Transfer and Display of CERES Data Product Validation Results *David Rutan (SSAI)*
- 12:20 pm **Lunch**
- 2:00 pm Improvements to Standard CALIPSO Products and Mew Products *David Winker (NASA)*
- 2:20 pm Evaluation of the Global Cloud Cover Parameters Obtained from Geostationary Data in the Frame of the Megha-Tropiques Mission with CALIPSO Lidar Observations *Genevieve Seze (LMD)*
- 2:40 pm Cloud Property Comparisons between CERES and CALIPSO *Sunny Sun-Mack (SSAI)*
- 3:00 pm Validation of CERES ST Retrieved MODIS Cloud Properties Using DOE AMF-China and Cloudsat Observations *Xiquan Dong (U. N. Dakota)*

Thursday, September 16 (Cont'd)

Contributed Science Presentations

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| 3:20 pm | Comparisons of Multilayer Cloud Products From CERES MODIS, CALIPSO and CloudSat Data | <i>Fu-Lung Chang (SSAI)</i> |
| 3:40 am | Break | |
| 4:00 pm | Long-term Trend of Aerosol Optical Thickness in Support of Studying the Solar Dimming and Brightening | <i>Xuepeng Zhao (NOAA)</i> |
| 4:20 pm | Picard: A New Mission Dedicated to the Sun and Our Climate | <i>Steven Dewitte (RMIB)</i> |
| 4:40 pm | Adjourn | |