

# Agenda

## 2022 Earth Radiation Budget Workshop

October 12-14, 2022

**Max Planck Institute**

Bundesstrasse 53

20146 Hamburg

Room 022/023

<https://mpimet.mpg.de/en/institute/visitor-information>

1. *CERES, Libera, GERB and ScaRaB Technical Sessions*  
- Status of instruments, algorithms, validation, data products
2. *Invited Presentations. Each presentation is 45 min including time for questions.*
3. *Contributed Science Reports. Each report is 20 min including time for questions.*

Participants can upload their presentations to the following address:

<https://owncloud.gwdg.de/index.php/s/3ZZFWVgaBAzVREL>

*To Join Meeting by Zoom:*

<https://zoom.us/j/92636950407?pwd=d3Z3bkxWK3Rtb0VyUDJicVYzNDN0Zz09>

*Meeting ID: 926 3695 0407*

*Passcode: 240906*

**Self-Pay Team Dinner Thursday, 6:30 pm at “Jimmy Elsass”, (Schäferstrasse 26)**

# Wednesday, October 12

## CERES Technical Session

8:55 am	Welcome/Meeting Logistics	<i>B. Stevens</i>
9:00 am	State of CERES	<i>N. Loeb</i>
9:20 am	CERES FM1-FM6 Instrument Update	<i>K. Priestley</i>
9:40 am	CERES Clouds Working Group Report	<i>B. Smith</i>
<b>10:05 am</b>	<b>Break</b>	
10:25 am	CERES Angular Distribution Model (ADM) Working Group Report	<i>Z. Eitzen</i>
10:45 am	Time Interpolation and Spatial Averaging (TISA) Working Group Report	<i>D. Doelling</i>
11:05 am	FLASHFlux and SOFA Working Group Status: Increasing Data Usage Through POWER-GIS Web Services	<i>P.C. Sawaengphokhai</i>
11:25 pm	EBAF Update	<i>Loeb/Kato</i>
<b>12:00 pm</b>	<b>Lunch</b>	
1:30 pm	CERES Data Management Team (DMT) Working Group Report	<i>K. DeJwakh</i>

## Libera Technical Session

1:50 pm	Libera Overview and Mission Status Update	<i>P. Pilewski</i>
2:20 pm	Libera Science Overview – Objectives, Methods and Applications	<i>M. Hakuba</i>
2:50 pm	Libera split-solar angular distribution model update: opportunities and challenges for the wide-field-of-view camera	<i>J. Gristey</i>
<b>3:20 pm</b>	<b>Break</b>	

## ScaRaB Technical Session

3:50 pm	SCARAB on-board Megha-Tropiques: An End of Mission Review	<i>R. Roca</i>
<b>4:10 pm</b>	<b>Adjourn</b>	
<b>5:30 pm</b>	<b>Ice Breaker</b>	

# Thursday, October 13

## GERB Technical Session

8:55 am	GERB project status	<i>Brindley/Russell</i>
9:10 am	GERB instrument and operations update	<i>Rufus/Russell</i>
9:30 am	RMIB GERB processing status update	<i>E. Baudrez</i>
9:50 am	GERB data and products update	<i>J. Russell</i>
10:10 am	TOA fluxes from MTG/FCI: first results on test data and preparation of the commissioning	<i>N. Clerbaux</i>

10:30 am **Break**

### Invited Presentation

11:00 am	Using instantaneous radiative measurements to assess cloud properties	<i>J.-L. Dufresne</i>
11:45 am	Observational constraint on cloud feedbacks suggests moderate climate sensitivity	<i>B. Stevens</i>
<b>12:30 pm</b>	<b>Lunch</b>	
2:00 pm	Strong cloud-circulation coupling explains weak trade cumulus feedback	<i>R. Vogel</i>
2:45 pm	Observing and modelling Earth's albedo and its interhemispheric symmetry	<i>F. Bender</i>

**3:30 pm Break**

### Contributed Science Presentations

3:50 pm	CERES products vs MOSAiC observations: Investigation of discrepancies	<i>C. Barrientos-Velasco</i>
4:10 pm	CERES Top-of-atmosphere and Surface fluxes in the Arctic: A comparison with ARISE and MOSAiC measurements	<i>P. Taylor</i>
4:30 pm	Application of Libera's Near-IR "split shortwave" channel to test Earth system models	<i>W. Collins</i>
4:50 pm	Evolution of the GERB Obs4MIPs product and application to CMIP6 model evaluation	<i>H. Brindley</i>
5:10 pm	EarthCARE BBR Fluxes evaluation using test scenes	<i>A. Velazquez</i>

**5:30 pm Adjourn**

**6:30 pm Self-Pay Team Dinner "Jimmy Elsass",  
(Schäferstrasse 26)**

# Friday, October 14

## Science Presentations

8:30 am	Neural Network Cloud Detection Over Antarctic During Nighttime for CERES Edition 5	<i>S. Sun-Mack</i>
8:50 am	On the use of spectral observations in climate change studies: a review and an outlook	<i>X. Huang</i>
9:10 am	Regional implied heat transport from CERES data	<i>A. Bodas-Salcedo</i>
9:30 am	A thermodynamical view of the earth climate system	<i>S. Kato</i>
9:50 am	Morphological and radiative properties of mesoscale convective systems from satellite observations and high-resolution atmospheric model simulations from RCEMIP and DYAMOND	<i>R. Roca</i>
<b>10:10 am</b>	<b>Break</b>	
10:30 am	Measurement of the Earth Energy Imbalance: requirements	<i>T. Mauritsen</i>
10:50 am	Measurement of the Earth Energy Imbalance: key challenges	<i>S. Dewitte</i>
11:10 am	DEMETER: Next-generation Earth Radiation Budget Configurable Sensorcraft	<i>A. Ashraf</i>
11:30 am	Hemispheric albedo asymmetries in CERES and CMIP	<i>T. Crueger</i>
11:50 am	The Role of Baroclinic Activity in Controlling Earth's Albedo in the Present and Future Climates	<i>O. Hadas</i>
<b>12:10 pm</b>	<b>Lunch</b>	
1:40 pm	Comparison between MODIS and CALIPSO-CloudSat cloud amounts and their trends depending on the cloud threshold	<i>S.-H. Ham</i>
2:00 pm	What are the drivers of brightening over the Western North Atlantic Ocean?	<i>M. Park</i>
2:20 pm	Observing and Modeling Earth's Energy Flows, Ten Years Later	<i>M. Zagoni</i>
2:40 pm	Recent variations in EEI, SST, and clouds	<i>N. Loeb</i>
<b>3:00 pm</b>	<b>Adjourn</b>	