Agenda

CERES Science Team Meeting

Lawrence Berkeley National Laboratory, Building 66 Berkeley, CA October 29-31, 2019

Shuttle Transportation Between The Graduate Hotel and LBNL:

- LBNL offers shuttle service between downtown Berkeley BART and LBNL throughout the day.
- You will receive your visitor bus pass within a week before the meeting.
- Please print the bus pass for presenting to the shuttle driver.
- From the Graduate Hotel at 2700 Durant Avenue, Berkeley, pick up the *Orange Shuttle line* at Bancroft and College or at Bancroft and Telegraph.
- The Orange Route runs ~20 minutes.
- Note the Berkeley Lab shuttle logo seen at shuttle stops.
- Present your bus pass to the shuttle driver and let them know you are going to Building 66.

Shuttle Website: https://commute.lbl.gov/service/shuttle-buses/

Registration:

• Plan on arriving at the Auditorium in Building 66 between 8:00-8:30 am. That should allow ample time for registration.

Major Objectives for the Meeting:

- 1. Review status of CERES Instruments and Data Products:
 - Status of CERES
 - CERES Terra, Aqua, S-NPP, NOAA-20 SW/LW/TOTAL Channel Calibration Update
 - MODIS & VIIRS Cloud Algorithm & Validation Status
 - ADM, SOFA, SARB, TISA & FLASHFlux Working Group Reports
 - Changes in EBAF Ed4.1
 - Data Management Team Update: Terra/Aqua/S-NPP/NOAA-20
- 2. Invited Presentations Session. Each presentation is 45 min including time for questions.
- 3. Contributed Science Reports. Each report is 20 min including time for questions.

No-Host Dinner: 6:30 pm Tuesday Evening (Cornerstone Berkeley, 2367 Shattuck Ave, Berkeley)

Tuesday, October 29 CERES Technical Session

8:00 am	Registration	
8:55 am	Welcome/Meeting Logistics	N. Loeb
9:00 am	State of CERES	N. Loeb
9:30 am	CERES FM1-FM6 Instrument Update	K. Priestley/ M. Shankar
10:15 am	Break	
10:45 am	CERES Clouds Working Group Report	B. Smith
11:15 am	CERES Angular Distribution Model (ADM) Working Group Report	W. Su
11:45 am	Lunch	
1:30 pm	Time Interpolation and Spatial Averaging (TISA) Working Group: Update	D. Doelling
1:45 pm	TISA: Monthly FluxbyCloudType Product	M. Sun
2:00 pm	Surface Atmospheric Radiation Budget (SARB) Working Group Update	S. Kato
2:30 pm	EBAF Ed4.1: New Clear-Sky Flux Parameter	N. Loeb
2:45 pm	EBAF Ed4.1: Surface Flux Validation	D. Rutan
3:00 pm	Break	
3:30 pm	FLASHFLUX Update	P. Stackhouse
3:55 pm	CERES Data Management Team (DMT) Working Group Report	K. Moore Dejwakh
	Contributed Science Presentation	
4:20 pm	The incredible lightness of water vapor	D. Yang
4:40 pm	Adjourn	
6:30 pm	No-Host Dinner: Cornerstone Berkeley	
	(2367 Shattuck Ave, Berkeley)	

Wednesday, October 30

Invited Science Presentations

9:00 am	Using CERES to Understand the Atmospheric Energy Budget and Tropical Rainfall Variations	W. Boos
9:45 am	Machine Learning for Climate Extremes: Training is Everything	B. Collins
10:30 am	Break	
11:00 am	Temporal and Spectral Dimensions of Shortwave Cloud Radiative Effects from Observations and Models	D. Feldman
	Contributed Science Presentations	
11:45 am	The Far-Infrared Outgoing Radiation Understanding and Monitoring (FORUM)	M. Mlynczak
12:05 pm	Athena: NASA/USAF/NOAA Smallsat ERB technology demonstration mission to launch with JPSS-2	K. Priestley
12:25 pm	Lunch	
	Contributed Science Presentations	
2:00 pm	Model dependence of cloud radiative kernels: can we use one cloud kernel for all models?	X. Huang
2:20 pm	On the nature of shortwave CRE in CERES and CMIP6	M. Hakuba
2:40 pm	The changing Arctic surface energy budget: The role of clouds "Hiatus"	P. Taylor
3:00 pm	Atmospheric feedbacks in HadGEM3	A. Bodas-Salcedo
3:20 pm	Break	
3:50 pm	Stereo photogrammetry of clouds (Invited)	D. Romps
4:35 pm	Examining cloud changes over the Eastern Pacific using CALIPSO and CloudSat	SН. Нат
4:55 pm	Developing an AVHRR-based CDR of TOA radiative fluxes within the CMSAF Project (update)	T. Akkermans
5:15 pm	Adjourn	

Thursday, October 31 Contributed Science Presentations (Cont'd)

9:00 am	Improvements in an ice cloud optical property model	A. Bell
9:20 am	Examination of 1.24 and 1.6 micron cloud optical depth retrievals over snow and ice surfaces	S. Sun-Mack
9:40 am	The diurnal variations of cloud macrophysical properties over Eastern North Atlantic Ocean using Radar/lidar, MeteoSat, and CERES-MODIS measurements	B. Xi
10:00 am	Comparison of Satellite retrieved MBL cloud properties with Aircraft in-situ measurements	X. Dong
10:20 am	Break	
10:50 am	Radiative impacts of future Arctic sea ice melt	K. Pistone
10:50 am 11:10 am	•	K. Pistone C. Kuo
	melt Sampling for wintertime surface conductive flux at the sea-ice/atmosphere	

12:10 pm Adjourn