



Agenda

MODIS/VIIRS Science Team Meeting Sheraton Silver Spring Hotel

June 6 – June 10, 2016; Silver Spring, MD



Morning Session, Monday, June 6, 8:30 am - 11:45 am

Room: Cypress Ballroom

MODIS Calibration Workshop

Jack Xiong and Jim Butler, Chairs

MODIS operation, calibration, and performance 8:30 am

Lunch 11:45 pm

Afternoon Session, Monday, June 6, 1:00 pm - 5:30 pm

Room: Cypress Ballroom

VIIRS Calibration Workshop

Jim Butler and Jack Xiong, Chairs

VIIRS operation, calibration, and performance 1:00 pm

Coffee Break 3:00 pm

General MODIS and VIIRS Calibration Topics

Jack Xiong and Jim Butler, Chairs

Atmosphere, Land, and Ocean Science topics 3:30 pm

Adjourn 5:30 pm

Poster Session, Monday, June 6 – Friday, June 10

Room: Magnolia Ballroom

Registration 7:00 am

Morning Session, Tuesday, June 7, 8:30 am - 11:45 am

Room: Cypress Ballroom

Plenary

Michael King, Chair

“Welcome – Review of Agenda, meeting logistics” 8:30 am

Michael King, University of Colorado

“Outlook from Senior HQ on ESD” Mike Freilich, Director of Earth Science Division, NASA Headquarters	8:45 am
“Terra and Aqua MODIS and VIIRS Instrument Status” Jack Xiong, Goddard Space Flight Center	9:15 am
“Impact of Terra/MODIS PV LWIR cross talk on L1 and L2 Products” Chris Moeller and Richard Frey, University of Wisconsin-Madison	9:45 am
Break	10:15 am
“Terra’s End of Mission Plan to Maintain Current Mean Local Time and Altitude” Robert Wolfe, Goddard Space Flight Center	10:45 am
“VIIRS Issues and Perspectives” Jim Gleason, Suomi NPP Project Scientist, Goddard Space Flight Center	11:15 am
Lunch	11:45 pm
Afternoon Session, Tuesday, June 7, 1:00 pm - 5:30 pm	
Room: Cypress Ballroom	
MODIS Data Products & Algorithm Status	
MODIS Atmosphere Science Analysis	
Steve Platnick, Chair	
“Radiative and Aerosol Indirect Effect Studies based on MODIS Cloud Regimes” Lazaros Oreopoulos, Goddard Space Flight Center	1:00 pm
“Marine Boundary Layer Lapse Rate and Cloud-top-height Observed from MODIS and CALIPSO over Subtropical Eastern Pacific” Feiqin Xie, Texas A&M University Corpus Christi	1:20 pm
“An Evaluation of the Impacts of Aerosol Particles on both Short-term Weather Forecasts and Long-term Climate Forcing Variations” Jianglong Zhang, University of North Dakota	1:40 pm
“MODIS and CALIPSO Observations of Aerosol Properties in Partly Cloudy Conditions” Alexander Marshak and Tamas Várnai, Goddard Space Flight Center	2:00 pm
“Eyes in the Sky: An Aqua-based Characterization of the Saharan Air Layer” Stephen Nicholls and Karen Mohr, Goddard Space Flight Center	2:20 pm

<p>“Progress in Understanding the Impacts of 3-D Cloud Structure on MODIS Cloud Property Retrievals for MBL Clouds” Zhibo Zhang, University of Maryland-Baltimore County</p>	2:40 pm
<p>Break</p>	3:00 pm
<p>MODIS/VIIRS Atmosphere Algorithms Bryan Baum, Chair</p>	
<p>“Cloud Top Properties: Challenges in Extending MODIS to VIIRS” Bryan Baum, University of Wisconsin-Madison</p>	3:30 pm
<p>“Cloud Detection, Height, and Optical Properties: Challenges in Extending MODIS to VIIRS” Steve Platnick, Kerry Meyer, et al., Goddard Space Flight Center</p>	3:50 pm
<p>“Aerosol Properties: Dark Target Extension from MODIS to VIIRS” Rob Levy et al., Goddard Space Flight Center</p>	4:20 pm
<p>“Aerosol Properties: Deep Blue Extension from MODIS to VIIRS” Christina Hsu, Andrew Sayer, and Corey Bettenhausen Goddard Space Flight Center</p>	4:40 pm
<p>“ROSES Selections and the MODIS and VIIRS Science Teams” Paula Bontempi, MODIS and Suomi NPP Program Scientist, NASA Headquarters</p>	5:00 pm
<p>Adjourn</p>	5:30 pm
<p>Morning Session, Wednesday, June 8, 8:30 am - 12:00 pm Room: Cypress Ballroom</p>	
<p>MODIS Land Science Analysis Steve Running, Chair</p>	
<p>“New Analysis of Urban Heat Islands” Steve Frolking, University of New Hampshire</p>	8:30 am
<p>“Crop Conditions in California Vineyards” Feng Gao, USDA Agricultural Research Service</p>	8:50 am
<p>“Evergreen Forest Phenology” Fred Huemmrich, Goddard Space Flight Center</p>	8:50 am
<p>“Arctic Ice Cover and Methane Fluxes” Ira Leifer, University of California-Santa Barbara</p>	9:10 am
<p>“PAR from MODIS and GOES”</p>	9:30 am

Shunlin Liang, University of Maryland	
“Lake Water Temperature Trends from LST” Simon Hook, Jet Propulsion Lab	9:50 am
Break	10:10 am
“Interannual Variability in Rainfall and NDVI” Kamel Didan, University of Arizona	10:40 am
“Continental Scale Phenology” Mark Friedl, Boston University	11:00 am
“Volcano Monitoring with MODIS” Rob Wright, University of Hawaii	11:20 am
“MODIS NPP Trends and Global Carbon Modeling” Steve Running, University of Montana	11:40 am
Lunch	12:00 pm
Afternoon Session, Wednesday, June 8, 1:30 pm - 5:30 pm	
Discipline breakouts: Land, Ocean, and Atmosphere	1:30 pm
Land: Cypress Ballroom	
Atmosphere: Elm (4th Floor)	
Ocean: Cedar (1st Floor)	
Adjourn	5:30 pm
Morning Session, Thursday, June 9, 8:30 am - 12:00 pm	
Room: Cypress Ballroom	
MODIS Land Science Analysis	
Steve Running, Chair	
“Testing the Dynamic Habitat Index with MODIS” Volker Radeloff, University of Wisconsin-Madison	8:30 am
“Real-time Landcover Disturbance” Curtis Woodcock, Boston University	8:50 am
“Uncertainties in Estimates of fAPAR for Photosynthesis when Approximated with fAPARcanopy, NDVI and EVI” Qingyuan Zhang, Goddard Space Flight Center	9:10 am

MODIS/VIIRS Land Algorithms and Science Analysis
Chris Justice, Chair

“MODIS/VIIRS Surface Reflectance” Eric Vermote, Goddard Space Flight Center	9:30 am
“MODIS/VIIRS Fire Products” Wilfrid Schroeder and Louis Giglio, University of Maryland	9:50 am
Break	10:10 am
“MODIS/VIIRS Snow and Ice” George Riggs and Mark Tschudi, Goddard Space Flight Center	10:40 am
“BRDF/Albedo: Extending MODIS to VIIRS” Crystal Schaaf, University of Massachusetts-Boston	11:00 am
“MODIS/VIIRS Leaf Area Index” Ranga Myneni, Boston University	11:20 am
“MODIS/VIIRS Land Surface Temperature” Glynn Hulley and Simon Hook, Jet Propulsion Laboratory	11:40 am
Lunch	12:00 pm

Afternoon Session, Thursday, June 9, 1:30 pm - 5:00 pm
Room: Cypress Ballroom

MODIS/VIIRS Ocean Algorithms and Science Analysis
Carlos Del Castillo, Chair

“Remote Sensing Reflectance and Derived Products: MODIS and VIIRS” Bryan Franz, Goddard Space Flight Center	1:30 pm
“Diffuse Attenuation and Secchi Depth Products from MODIS and VIIRS” ZhongPing Lee, University of Massachusetts Boston	1:50 pm
“PIC of the ‘Lith-er...PIC/Coccolith Algorithm Advances for MODIS for and VIIRS Evaluating the Global Ocean Carbonate Budget” William Balch, Bigelow Laboratory for Ocean Sciences	2:10 pm
“Revealing Changes in Phytoplankton Community Composition with MODIS using an Ocean Reflectance Inversion Model” Jeremy Werdell, Goddard Space Flight Center	2:30 pm
“MODIS and VIIRS Observations of Sargassum Macroalgae” Chuanmin Hu, University of South Florida	2:50 pm

Break	3:10 pm
MODIS/VIIRS Ocean Algorithms and Science Analysis	
Bryan Franz, Chair	
“Using MODIS Ocean Color Data and Numerical Models to Understand the Distribution of Colored Dissolved Organic Matter in the Southern Ocean” Carlos Del Castillo, Goddard Space Flight Center	3:40 pm
“VIIRS Ocean Color Data and Global Modeling: Extending the Time Series of Ocean Biology from Space” Cecile Rousseaux, Goddard Space Flight Center	4:00 pm
“MODIS and VIIRS SST: Validation of Continuity Products and Results from Alternative Algorithms” Kay Kilpatrick and Peter Minnett, University of Miami	4:20 pm
“A Deterministic Inverse Method for SST Retrieval from VIIRS: Incorporating Aerosol in the Retrieval Vector” Andy Harris and Prabhat Koner, University of Maryland	4:40 pm
Adjourn	5:00 pm
Morning Session, Friday, June 10, 8:30 am - 11:20 am	
Room: Cypress Ballroom	
Plenary	
Jim Gleason, Chair	
“MODIS and Suomi-NPP Discipline Summary Report – Land” Steve Running, Univ. of Montana, and Chris Justice, Univ. of Maryland	8:30 am
“MODIS and Suomi-NPP Discipline Summary Report – Ocean” Bryan Franz and Carlos Del Castillo, Goddard Space Flight Center	9:00 am
“MODIS and Suomi-NPP Discipline Summary Report – Atmosphere” Steve Platnick, GSFC, and Bryan Baum, University of Wisconsin-Madison	9:30 am
Break	10:00 am
“Discussion on VIIRS and Future Developments” Paula Bontempi, NASA Headquarters	10:30 am
“Closing Remarks” Michael King, University of Colorado, and Jim Gleason, GSFC	11:00 am
Adjourn	11:20 am