



## Agenda

### MODIS/VIIRS Science Team Meeting Sheraton Silver Spring Hotel

May 18 – May 22, 2015; Silver Spring, MD



#### Morning Session, Monday, May 18, 8:30 am - 5:30 pm

##### MODIS Calibration Workshop

Jack Xiong and Vince Salomonson, Chairs

MODIS operation, calibration, and performance 8:30 am

Lunch 11:40 pm

##### VIIRS Calibration Workshop

Jim Butler and Jack Xiong, Chairs

VIIRS operation, calibration, and performance 12:50 pm

Adjourn 5:30 pm

#### Morning Session, Tuesday, May 19, 8:30 am - 11:45 am

Registration 7:00 am

##### Plenary

Michael King, Chair

“Welcome – Review of Agenda, meeting logistics” 8:30 am  
Michael King, University of Colorado

“Outlook from Senior HQ on ESD” 8:45 am  
Mike Freilich, Director of Earth Science Division, NASA Headquarters

“ROSES Selections and the MODIS and VIIRS Science Teams” 9:15 am  
Paula Bontempi, MODIS and Suomi NPP Program Scientist,  
NASA Headquarters

“Terra and Aqua MODIS and VIIRS Instrument Status” 9:45 am  
Jack Xiong, Goddard Space Flight Center

Break 10:15 am

“The 2015 Aqua and Terra Senior Review Activities” 10:45 am  
Claire Parkinson and Kurt Thome, Goddard Space Flight Center

“VIIRS Level-1B Algorithm and Formatting” Fred Patt and Vincent Chiang, Goddard Space Flight Center	11:15 am
Lunch & poster session	11:45 am
<b>Afternoon Session, Tuesday, May 19, 2:00 pm - 5:30 pm</b>	
<b>MODIS Data Products &amp; Algorithm Status</b>	
MODIS/VIIRS Atmosphere Algorithms and Science Analysis <b>Steve Platnick and Bryan Baum, Chairs</b>	
“MODIS Cloud Mask and Extension to a MODIS/VIIRS Cloud Mask” Steve Ackerman and Rich Frey, University of Wisconsin-Madison	2:00 pm
“Continuity of Cloud Top Properties from MODIS to VIIRS” Bryan Baum, Paul Menzel, University of Wisconsin-Madison, and Irina Gladkova, City College of New York	2:20 pm
“MODIS Clear-sky Infrared Total Precipitable Water Product and its Continuity with VIIRS and CrIS” Éva Borbás, Zhenglong Li, and Paul Menzel, Univ. of Wisconsin-Madison	2:40 pm
“Cloud Optical Properties: Challenges of Extending MODIS to VIIRS” Steve Platnick, Kerry Meyer, and Gala Wind, Goddard Space Flight Center	3:00 pm
Break	3:20 pm
“MODIS-VIIRS Aerosol Continuity with the Dark Target Retrieval Algorithm” Rob Levy, Leigh Munchak, Shana Mattoo, Falguni Patadia, GSFC, Lorraine Remer, University of Maryland Baltimore County, and Bob Holz, University of Wisconsin-Madison	3:50 pm
“Aerosol Properties: Enhanced Deep Blue Algorithm and its Extension from MODIS to VIIRS” Christina Hsu, Andrew Sayer, Corey Bettenhausen, and Jaewa Lee, Goddard Space Flight Center	4:10 pm
“Will Ensemble Approach Improve Surface PM <sub>2.5</sub> Estimate from Space?” Jun Wang, University of Nebraska, Jim Szykman, EPA, Yang Liu, Emory University, Robert Levy, GSFC, and Bob Holz, UW-Madison	4:30 pm
MODIS/VIIRS Land Algorithms and Science Analysis <b>Steve Running, Chair</b>	
“Surface Reflectance over Land: Extending MODIS to VIIRS”	4:50 pm

Eric Vermote, Goddard Space Flight Center	
“BRDF/Albedo: Extending MODIS to VIIRS” Crystal Schaaf, University of Massachusetts-Boston	5:10 pm
Adjourn	5:30 pm
<b>Morning Session, Wednesday, May 20, 8:30 am - 12:10 pm</b>	
MODIS/VIIRS Land Algorithms and Science Analysis <b>Chris Justice, Chair</b>	
“Vegetation Indices: Differences between MODIS and VIIRS” Kamel Didan, University of Arizona, and Jim Tucker, GSFC	8:30 am
“MODIS Land Cover and Land Cover Dynamics Products” Mark Friedl, Boston University	8:50 am
“Snow Cover and Sea Ice: Extending MODIS to VIIRS” Dorothy Hall and George Riggs, Goddard Space Flight Center	9:10 am
“Land Surface Temperature and Emissivity for MODIS and VIIRS ” Glynn Hulley and Simon Hook, Jet Propulsion Laboratory	9:30 am
“Active Fire and Burned Area Products: Extending MODIS to VIIRS” Louis Giglio and Chris Justice, University of Maryland	9:50 am
Break	10:10 am
“Leaf Area Index and Fraction of Photosynthetically Active Radiation” Taejin Park, Boston University	10:40 am
“MAIAC: Multi-Angle Implementation of Atmospheric Correction” Alexei Lyapustin, Goddard Space Flight Center	11:00 am
“MODIS GPP, NPP and ET and the Future” Steve Running, Maosheng Zhao, and Qiaozhen Mu, Univ. of Montana	11:20 am
“MODIS Vegetation Continuous Fields” Charlene DiMiceli and John Townshend, University of Maryland	11:40 am
Lunch	12:00 pm
<b>Afternoon Session, Wednesday, May 20, 1:30 pm - 5:30 pm</b>	
<b>Discipline breakouts: Land, Ocean, and Atmosphere</b>	1:30 pm
Adjourn	5:30 pm

**Morning Session, Thursday, May 21, 8:30 am - 12:00 pm**

**MODIS/VIIRS Land Algorithms and Science Analysis**

**Chris Justice, Chair**

“VIIRS Nighttime Lights Algorithm Development 2015” 8:30 am  
Kimberly Baugh, Chris Elvidge, Feng-Chi Hsu, Mikhail Zhizhin, and  
Tilottama Ghosh, NOAA National Geophysical Data Center

“The Urban Social and Energy Use Data Embedded in VIIRS 8:50 am  
Nighttime Lights”  
Miguel Román, GSFC, and Eleanor Stokes, Yale University

**MODIS/VIIRS Ocean Algorithms and Science Analysis**

**Bryan Franz, Chair**

“Remote Sensing Reflectance and Derived Products: MODIS and 9:10 am  
Extension to VIIRS  
Bryan Franz, Goddard Space Flight Center

“Inherent Optical Properties from MODIS and VIIRS with Extension 9:30 am  
to Optically Shallow Waters”  
Lachlan McKinna, Goddard Space Flight Center

“Using AQUA MODIS PIC Concentration to Determine 9:50 am  
Coccolithophore Bloom Phenology”  
Jason Hopkins, Bigelow Laboratory for Ocean Sciences

Break 10:10 am

“Development of a Long-term Consistent Ocean Surface PAR Product 10:40 am  
from MODIS and VIIRS Data”  
Robert Frouin, Scripps Institution of Oceanography

“MODIS-VIIRS Sea-Surface Temperatures” 11:00 am  
Peter Minnett, University of Miami

“A Deterministic Inverse Method for SST Retrieval from VIIRS: 11:20 am  
Early Result”  
Andy Harris, University of Maryland

“A Physiological Twist to Apparent Warming Impacts on Global 11:40 am  
Ocean Phytoplankton”  
Michael Behrenfeld, Oregon State University

Lunch 12:00 pm

**Afternoon Session, Thursday, May 21, 1:30 pm - 5:30 pm**

**Discipline breakouts: Land, Ocean, and Atmosphere** 1:30 pm

Adjourn 5:30 pm

**Morning Session, Friday, May 22, 8:30 am - 11:30 am**

**Plenary**

**Jim Gleason, Chair**

“MODIS and Suomi-NPP Discipline Summary Report – Land” 8:30 am  
Steve Running, Univ. of Montana, and Chris Justice, Univ. of Maryland

“MODIS and Suomi-NPP Discipline Summary Report – Atmosphere” 9:00 am  
Steve Platnick, GSFC, and Bryan Baum, University of Wisconsin

“MODIS and Suomi-NPP Discipline Summary Report – Ocean” 9:30 am  
Bryan Franz, Goddard Space Flight Center

Break 10:00 am

“Discussion on VIIRS and Future Developments” 10:30 am  
Paula Bontempi, NASA Headquarters

“Closing Remarks” 11:00 am  
Michael King, University of Colorado, and Jim Gleason, GSFC

Adjourn 11:30 am