

PRELIMINARY AGENDA: MISR Data Users Science Symposium
Beckman Institute Auditorium, California Institute of Technology, Pasadena, CA

Tuesday, December 13

Welcome

8:15 AM	Sign-in	All	30
8:45 AM	Welcome	David Diner	15

Clouds

Moderator: Eugene Clothiaux, Pennsylvania State University

9:00 AM	A decade of MISR Cloud-Top-Heights and Optical Depths	Roger Marchand	20
9:20 AM	Evaluating clouds in climate models using satellite simulators: from mean state to feedbacks	Benjamin Hillman	20
9:40 AM	An investigation of the relationship between lower tropospheric stability and low cloud cover using MISR	Bethany Norris	20
10:00 AM	Break	All	20
10:20 AM	The greenhouse effect of clouds: observations and theory	Roger Davies	20
10:40 AM	MISR as trailblazer in atmospheric tomography	Anthony Davis	20
11:00 AM	Discussion	All	15

Hurricanes and Winds

Moderator: Catherine Naud, Columbia University/GISS

11:15 AM	NOAA's Hurricane Forecast Improvement Project: Progress and current needs	Robert Atlas	20
11:35 AM	Inner-core dynamics and structure of Hurricane Alberto (2000) as observed by MISR and MODIS	Dong Wu	20
11:55 AM	Mesoscale hurricane dynamics captured by enhanced MISR cloud motion vectors	Kevin Mueller	20
12:15 PM	Lunch	All	90
1:45 PM	Using MISR's high-resolution cross-track winds to examine hurricane eyewall dynamics	Michael Garay	20
2:05 PM	Evaluation of MISR's upgraded stereo motion vectors	Akos Horvath	20
2:25 PM	Discussion	All	15

Poster session I

2:40 PM	Poster viewing and break	All	80
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Polarimetry

Moderator: Joseph Shaw, Montana State University

4:00 PM	Study of ice cloud optical properties from model simulations in comparison with POLDER measurements	Benjamin Cole	20
4:20 PM	UV utility for photo-polarimetric characterization of absorbing aerosols	Olga Kalashnikova	20
4:40 PM	Interpretation of out-of-scatter-plane polarization in GroundMSPI surface reflectance movies	Russell Chipman	20
5:00 PM	AirMSPI and AirMSPI-2 development progress	David Diner	20
5:20 PM	Discussion	All	15
5:35 PM	Adjourn		

Social event at the University Club, Pasadena

6:30 PM	Cocktails
7:00 PM	Dinner and music

Wednesday, December 14

Aerosols I

Moderator: Hal Maring, NASA HQ

8:30 AM	MISR wildfire smoke, volcanic ash, and urban pollution results for constraining aerosol transport models	Ralph Kahn	20
8:50 AM	Validation of modeled smoke plume injection heights using MISR and CALIPSO	Sean Raffuse	20
9:10 AM	Tropical biomass burning smoke plume size, shape, reflectance, and age based on 2001-2009 MISR imagery of Borneo	Charles Zender	20
9:30 AM	Constraining modeled fire AOD using remote sensing products and quantifying the global climate response to smoke aerosol emissions	Michael Tosca	20
9:50 AM	Discussion	All	15
10:05 AM	Break	All	20

Land Surfaces

Moderator: Lesley-Ann Dupigny-Giroux, University of Vermont

10:25 AM	Evaluation of JRC-TIP 0.01° products from MISR albedos over a deciduous forest	Bernard Pinty	20
10:45 AM	GlobAlbedo land surface albedo and its assessment using tower sites and MISR	Jan-Peter Muller	20
11:05 AM	Mapping forest and shrub canopies with MISR	Mark Chopping	20
11:25 AM	Multi-year patterns of roughness on the Greenland ice sheet (2000 - 2010)	Anne Nolin	20
11:45 AM	Generating MISR products at high spatial resolution	Michel Verstraete Presenter: B. Pinty	20
12:05 PM	Discussion	All	15
12:20 PM	Lunch	All	90

Aerosols II

Moderator: Marcin Witek, JPL

1:50 PM	Regional scale aerosol climatology using Multi-angle Imaging SpectroRadiometer (MISR) satellite: case of study South Africa	Melaku Tesfaye	20
2:10 PM	A decade of change in aerosol properties over the Indian Subcontinent	Larry Di Girolamo	20
2:30 PM	Aerosol retrieval comparison among MISR, OMI, MODIS Deep Blue and MAIAC algorithms over North Africa	Alexei Lyapustin	20

Poster session II

2:50 PM	Poster viewing and break	All	80
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Aerosols II (continued)

4:10 PM	Synthetic studies on optimized MISR retrievals: what they tell us and where we can go from there	Suniti Sanghavi	20
4:30 PM	Applications of MISR aerosol products to dust regions	Olga Kalashnikova	20
4:50 PM	Discussion	All	15

Wrap-up

5:05 PM	Closing comments and discussion	All	25
5:30 PM	Adjourn		

Posters

No.	Title	Lead author
1	Polarization rotation in clouds	Christine Bradley/ Russell Chipman
2	Mapping forest cover and height in the Sierra National Forest with MISR	Mark Chopping
3	Towards mapping shrubs in Arctic tundra with MISR	Mark Chopping
4	Mapping woody plant cover in Kenyan savanna with MISR	Mark Chopping
5	Observational tests of the surface reflectance boundary condition for aerosol retrievals using multiangle spectropolarimetric imaging	David Diner
6	Particle property data quality flags for the MISR Aerosol Product	Barbara Gaitley
7	Observations and modeling of 3-dimensional cloud and aerosol fields from the Multiangle SpectroPolarimetric Imager (MSPI)	Michael Garay
8	Inter-comparison of Asian dust regions	Michael Goetz
9	Comparison between MODIS and MISR derived dust AOTs over the Tropical Atlantic	Yanjuan Guo
10	Application of MISR data for analyzing volcanic plumes in the North Pacific	Angela Ekstrand
11	Satellite perspective on springtime aerosol variability in Asian dust sources over the past decade	Olga Kalashnikova
12	Atmospheric Polarization Computations (APC) code	Sergey Korokin/ Alexei Lyapustin
13	Identifying communities of vulnerability: Using NASA's MISR to enhance public health tracking of particle exposure in Los Angeles	Katrina Laygo/ Asya Hollins
14	Spatial and temporal variability of low cloud	Jae Lee/Dong Wu
15	Application of graph cut theory to the MISR aerosol retrieval process	John Martonchik
16	MODIS 3 km aerosol product for air quality applications	Shana Mattoo
17	Assessment of MISR 2TC using the UCL stereo matchers	Jan-Peter Muller
18	Comparison of clouds and precipitation in northern and southern ocean extratropical cyclones	Catherine Naud
19	Multi-year patterns of roughness on the Greenland ice sheet (2000 - 2010)	Anne Nolin
20	Using combined satellite aerosol measurements to constrain biomass burning emission source strength in the GOCART model	Mariya Petrenko
21	Synthetic studies on optimized MISR retrievals: what they tell us and where we can go from there	Suniti Sanghavi
22	Sensitivity of aerosol retrieval over snow surfaces	Felix Seidel
23	A multi-sensor GLAS, MISR, and MODIS approach to mapping forest canopy height in boreal forest regions	David Selkowitz
24	Southern Oceans AOD maximum: reconciling MISR retrievals and model predictions with in-situ observations	Marcin Witek
25	Spaceborne Atmospheric Boundary Layer Experiment (SABLE): A cost-effective mission on Iridium NEXT	Robert Wood/ Dong Wu
26	A radiative transfer computation and aerosol/surface retrieval tool based on the Markov chain method	Feng Xu
27	Outreach to the science interested public: MISR "Where on Earth?..." Quiz	Karen Yuen
28	Tropical biomass burning smoke plume size, shape, reflectance, and age based on 2001-2009 MISR imagery of Borneo	Charles Zender