

ARM Aerosol Working Group, Agenda, March 26, 2007, 1:00 - 4:00 pm

13:00	0:14	Schmid	Welcome, Introduction, Agenda, Make-up of AWG, New Business
13:14	0:14	Schmid	Aerosol Lidar Validation Experiment (ALIVE): Introduction, lidar and airborne measurements comparisons
13:28	0:08	Kiedron	Aerosol Lidar Validation Experiment (ALIVE): AOD intercomparison
13:36	0:08	Cairns	Aerosol Lidar Validation Experiment (ALIVE): Polarimetry
13:44	0:14	McFarlane	Radiative Forcing of Saharan Dust Aerosol at Niamey
13:58	0:06	Schmid for Turner	AERI's view of Niamey Dust
14:04	0:14	Chuang	Exploring the Multi-Scale Aerosol/Cloud Interactions from ARM Measurements to Global Modeling
14:18	0:14	Lacis	Geoengineering, a Timely Remedy for Global Warming?
14:32	0:14	Mayor	Raman-Shifted Eye-safe Aerosol Lidar (REAL)
14:46	0:20	Break	
15:06	0:14	Ogren	The ARM Aerosol Observing Systems: Status and Planned Upgrades
15:20	0:20	Ogren, all	In-situ Aerosol Profile (Cessna) Renewal Proposal
15:40	0:20	Flynn, all	Review of priorities of aerosol related VAPs for Sunset Committee
16:00		Adjourn	

Aerosol Indirect Effects 4:00 - 5:00 pm, Leader: S. Ghan

16:00	0:05	Marshak	Increase of the satellite retrieved AOD due to the enhanced illumination of cloud-free areas in the vicinity of clouds
16:05	0:05	Hudson	CCN contrasts below and above California stratus
16:10	0:15	Miller	Regimes within the first aerosol indirect effect
16:25	0:05	X. Liu	Aerosol indirect effects on cold clouds
16:30	0:10	Min	Saharan dusts impact on clouds and precipitation
16:40	0:10	Li	Use of ARM data to separate aerosol effects from artifacts
16:50	0:10	Y. Liu	Multimoment Formulation of the Autoconversion Process
17:00	0:10	Turner	Routine AVP CLOUD Optical Radiative Observations
17:10		Adjourn	

Plenary Talks related to Aerosols

1		Li	A Pathway to a New Frontier of Aerosol-Climate Studies
2		Lubin	Magnitude of the Aerosol Shortwave Indirect Effect in Springtime Arctic Liquid Water Clouds
3		Ghate	A New Technique for Studying Aerosol-Cloud Interactions in Marine Stratocumulus
4		Kassianov	Relationship Between Cumulus Cloud Fraction and Aerosol Optical Depth: A Five-Year Climatology at the ACRF SGP Site
5		Trepte	CALIPSO Mission Overview
6		Slingo	Results from the ARM Mobile Facility Deployment in Niamey and the RADAGAST Project

Breakout Sessions related to Aerosols

1		Schmid	AWG
2		Ghan	Aerosol Indirect Effects
3		Miller	CLASIC
4		Ghan/Verlinde	ISDAC/RISACAM

Posters related to Aerosols

Radiation

1		Bedka	Characterization of Dust Type and Properties at Niamey, Niger Using AERI Downwelling Infrared Radiance Data
2		Bharmal	Identifying and Modeling Clear-sky Fluxes from the AMF in Niamey
3		Hansell	Satellite and Ground-Based Remote Sensing of Mineral Dust Using MODIS Thermal Infrared Window Brightness Temperatures and AERI Spectra
4		Lacis	Geoengineering, a Timely Remedy for Global Warming?
5		Lubin	Magnitude of the Aerosol Shortwave Indirect Effect in Springtime Arctic Liquid Water Clouds
6		McFarlane	Radiative Forcing of Saharan Dust Aerosol at Niamey
7		Stoffel	Effects of Wild Fire Smoke on SIRS Shortwave Irradiance

Cloud Properties

8		Chen	Is Aerosol Size or Chemistry More Important in Determining Droplet Number Concentrations?
9		Kim	Importance of Adiabaticity in Evaluating Aerosol Indirect Effect by Ground-based Remote Sensing
10		Li	Saharan Dust Vertical Transport and Its Indirect Effects on Warm Clouds
11		May	Aerosol and Thermodynamic Controls on Tropical Cloud Systems During TWPICE and ACTIVE
12		Miller	Cloud Droplet Nucleation and the Aerosol First Indirect Effect
13		Min	Saharan Dusts Suppress Convection and Precipitation

Aerosols

14		Alexandrov	Fine and Coarse Mode Aerosol Parameters Retrieved from SGP MFRSR Network Data
15		Chuang	Exploring the Multi-Scale Aerosol/Cloud Interactions from ARM Measurements to Global Modeling
16		Ghan	Indirect Semi-Direct Aerosol Campaign
17		Ghate	A New Technique for Studying Aerosol-Cloud Interactions in Marine Stratocumulus
18		Gianelli	Analysis of Bimodal Aerosol Size Distributions at SGP Using RSS 105 and CIMEL Data
19		Hudson	CCN Spectral Measurements During MASE
20		Kassianov	On Relationship Between Cumulus Cloud Fraction and Aerosol Optical Depth: a Five-Year Climatology at the ACRF SGP Site
21		Kiedron	Comparison of Aerosol Optical Depth from Passive and Active Measurements During the 2005 Aerosol Lidar Validation Experiment (ALIVE) at SGP
22		Lewis	Determination of Radial Moments of an Aerosol Size Distribution from Measurements of Light Scattering and Transmission
23		McComiskey	Aerosol-Cloud Interactions at Point Reyes, California
24		Niu	Validation of the New Collection of MODIS Aerosol Retrievals Against Ground-based Measurements
25		Penner	Examination of Aerosol Indirect Effects Under Contrasting Environments During the ACE-2 Experiment
26		Russo	Measurements of Liquid Water Content With the Atmospheric Radiation Measurement Program Raman Lidar at Southern Great Plains
27		Schmid	The Sensitivity of Shortwave Radiative Forcing and Heating Rates to the Aerosol Vertical Profile
28		Shao	Influence of Mixing on Evaluation of the Aerosol First Indirect Effect
29		Tao	The Role of Aerosols on Precipitation Processes
30		Wagener	Evaluation of the Utility of Routine Lagrangian Trajectories as a Standard ARM External Data-Stream

Modeling

			The Potential Impact of Black Carbon on Ice Clouds With the NCAR Community Atmospheric Model Version 3 (CAM3) Coupled With a Global Aerosol Model
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Instruments

31		X. Liu	
32		Mayor	Raman-Shifted Eye-safe Aerosol Lidar (REAL)
33		Hodges	MFRSR Head Refurbishment, Data Logger Upgrade and Calibration Improvements
34		Koontz	Erroneous Offset Corrections and Impact on MFRSR Measurements
35		Petty	Atmospheric Radiation Measurement Program Raman Lidar at Southern Great Plains: Performance and Status of the Derived Products
36		Pilewskie	The SWS at SGP

Field Campaigns

37		Ferrare	Aerosol and Water Vapor Measurements Acquired by the Upgraded SGP Raman Lidar During ALIVE
			Comparison of Aerosol Extinction Profiles from Micropulse Lidar, Raman Lidar, and NASA Ames Airborne Tracking Sun-Photometer During the 2C
38		Flynn	Aerosol Lidar Validation Experiment (ALIVE) at SGP
39		Li	ARM Mobile Facility Deployment in China 2008: Aerosol Indirect Effects Under a Hazy Environment
40		Slingo	Observations of the Impact of a Major Saharan Dust Storm on the Atmospheric Radiation Balance