

Note that due to smaller poster space this year, posters cannot stay up the entire meeting. Posters for sessions A1 & A2 may be displayed in Salon AB starting 3:30 pm Monday, but must be removed by 8:00 am Wednesday. Posters for sessions B1 & B2 may be displayed in Salon AB starting at 10:00 am Wednesday.

Last	First	Title	Category	Session	Day/Time	Number
Dubey	Manvendra	Predicting Carbonaceous Aerosol Humidification Effects: New Parameterizations & Humidified CAPS PMssa Monitor	Absorbing aerosol	A2	Tues 5:00 - 6:30 pm	11
Kleinman	Larry	Time Evolution of trace gasses, aerosols, and their optical properties in wildfire plumes sampled during the BBOP field campaign	Absorbing aerosol	A2	Tues 5:00 - 6:30 pm	13
Lewis	Ernie	Radial Growth and Optical Properties of Hygroscopic Absorbing Aerosols at High Relative Humidity	Absorbing aerosol	A2	Tues 5:00 - 6:30 pm	12
Onasch	Timothy	Photothermal Interferometric (PTI) O121Based Particle Absorption Monitor	Absorbing aerosol	A2	Tues 5:00 - 6:30 pm	14
Sedlacek	Arthur	Formation of Refractory Black Carbon by SP2-Induced Charring of Organic Aerosol	Absorbing aerosol	A2	Tues 5:00 - 6:30 pm	15
Yu	Zhenhong	UV/near-IR Aerosol Absorption Monitor	Absorbing aerosol	A2	Tues 5:00 - 6:30 pm	17
Zhang	Yue	Collaborative Research - BC5 laboratory studies of the optical properties and ice nuclei activity of carbonaceous particles as a function of mixing state and phase state	Absorbing aerosol	A2	Tues 5:00 - 6:30 pm	16
Bambha	Ray	New Opportunities for Combined Raman and High Spectral Resolution Lidar Retrievals	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	19
Beus	Sherman	Enabling Near-Real-Time Aircraft Data Visualization	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	31
Cederwall	Richard	Updating Recommended Datastreams	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	32
Chand	Duli	Calibration Stability of the ARM Raman Lidar at ENA	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	20
Chandrasekar	V.	Engineering Evaluation of the ARM X band Precipitation Radars at SGP	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	33
Collis	Scott	Py-ART and CMAc2.0: Open Science for Supporting ASR and ARM.	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	34
Comstock	Jennifer	ARM Data Epochs	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	35
Devarakonda	Ranjeet	Improved and Streamlined Data and Operations Management Tools Provided for the ARM/ASR Community	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	36
Gregory	Laurie	Cimel Sun-Photometers: New and Updated Data Products: Lunar Aerosol Optical Depth & Three-channel Cloud Optical Depth	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	37
Hodges	Gary	Developing Atmospheric Stability Parameter to Improve MFRSR Data	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	38
Isphording	Rachael	ARM Evaluation Data User Metrics and Best Practices	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	39
King	Austin	Plotting Tool Updates - ARM Data Quality Office	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	40
Krishna	Bhargavi	ARM Data Studio	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	51
Kumar	Jitendra	Integrated Cloud and High-Performance Computing Platform for Interactive Analysis of ARM Data	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	52
Lansing	Carina	Using Containers to Locally Develop ARM Data Products	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	53
Luke	Edward	Progress in Machine Learning Based Detection and Management of Sea Clutter for the Scanning Radars at the ARM ENA Site	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	54
Mather	James	What is an ARM Mentor or Translator? Understanding ARM Roles to Support your Research.	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	55
Ritsche	Michael	ARM Southern Great Plains (SGP) Update 2018	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	56
Tang	Qi	Heterogeneity in warm-season land-atmosphere coupling over the U.S. Southern Great Plains	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	57
Tang	Shuaiqi	Revising Constrained Variational Analysis for Treatment of Surface Complex Terrain	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	58
Xie	Shaocheng	Update on LLNL ARM Value-Added Products and Tools for Cloud Modeling Studies	ARM infrastructure	A2	Tues 5:00 - 6:30 pm	59
Toto	Tami	LASSO Operationalization (LASSO-O)	ARM Megasite and LES activities	B1	Wed 3:30 - 5:00 pm	1

Vogelmann	Andrew	LASSO Update: Current Products and Expansion Planning	ARM Megasite and LES activities	B1	Wed 3:30 - 5:00 pm	2
Zhang	Minghua	A convective-scale data assimilation system for the ARM megasite	ARM Megasite and LES activities	B1	Wed 3:30 - 5:00 pm	3
Berg	Larry	The transition from turbulent to quiescent boundary layers: Application of new data sets and modeling tools	Boundary layer structure	B1	Wed 3:30 - 5:00 pm	4
Chen	Jingyi	Investigating the Mechanisms of Shallow Precipitating Clouds Formation during the HI-SCALE Field Campaign	Boundary layer structure	B1	Wed 3:30 - 5:00 pm	5
Gero	Jonathan	A Community Retrieval for Multi-Instrument Thermodynamic Profiling of the Boundary Layer	Boundary layer structure	B1	Wed 3:30 - 5:00 pm	6
Ilotoviz	Eyal	Impact of Dry Intrusions on the Marine Boundary Layer	Boundary layer structure	B1	Wed 3:30 - 5:00 pm	7
Newsom	Rob	Spatial correlation between mixed layer depth and surface properties at SGP	Boundary layer structure	B1	Wed 3:30 - 5:00 pm	8
Ovchinnikov	Mikhail	Scale dependency of variances and fluxes in large-eddy simulations of convection during HI-SCALE	Boundary layer structure	B1	Wed 3:30 - 5:00 pm	9
Qian	Yun	Neglect of irrigation Effects accounts for dry-warm bias in climate model over the Central United States	Boundary layer structure	B1	Wed 3:30 - 5:00 pm	10
Rao	V.	Fast Neural Network Emulation of a Planetary Boundary Layer Parameterization in a numerical weather forecast model	Boundary layer structure, including land-atmosphere interactions and turbulence	B1	Wed 3:30 - 5:00 pm	21
Sakaguchi	Koichi	Influence of soil moisture gradient on convective cloud development during HI-SCALE	Boundary layer structure, including land-atmosphere interactions and turbulence	B1	Wed 3:30 - 5:00 pm	22
Sonnenfroh	David	A Laser Hygrometer Payload for the ScanEagle UAS	Boundary layer structure, including land-atmosphere interactions and turbulence	B1	Wed 3:30 - 5:00 pm	23
Sullivan	Ryan	ECOR SmartFlux: Upgrading the ARM Eddy Correlation Flux Measurement Systems	Boundary layer structure, including land-atmosphere interactions and turbulence	B1	Wed 3:30 - 5:00 pm	24
Tao	Cheng	Large-scale moisture budget and land-atmosphere coupling over US Southern Great Plains	Boundary layer structure, including land-atmosphere interactions and turbulence	B1	Wed 3:30 - 5:00 pm	25
Turner	David	Characterizing turbulence in the CBL using ARM observations and LES	Boundary layer structure, including land-atmosphere interactions and turbulence	B1	Wed 3:30 - 5:00 pm	26
Williams	Ian	Toward combining observations and model experiments to improve soil moisture-precipitation feedbacks in Earth system models	Boundary layer structure, including land-atmosphere interactions and turbulence	B1	Wed 3:30 - 5:00 pm	28
Wulfmeyer	Volker	Recent Results of the Land Atmosphere Feedback Experiment (LAFE)	Boundary layer structure, including land-atmosphere interactions and turbulence	B1	Wed 3:30 - 5:00 pm	27
Anber	Usama	Entrainment in Tropical Deep Convection	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	66
Bai	Hedanqiu	Diurnal vagaries over the Amazon in CESM	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	67

Cheng	Wei-Yi	Mechanisms of Mesoscale Convective Clustering in a Maritime Two-Day Rain Event (AMIE/DYNAMO) and in a Continental Afternoon Precipitation Event (MC3E)	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	68
Fan	Jiwen	Physical factors contributing to severe convective storms	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	69
Gustafson	William	Simulating Deep Convection Using Translating Large-Eddy Simulations for MC3E	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	70
Hagos	Samson	A Machine Learning Assisted Development of a Model for the Population Dynamics of Clouds	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	81
Hardin	Joseph	Taranis: Advanced Precipitation and Cloud Products for ARM Radars	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	82
Jackson	Robert	The influences of large scale forcing on the diurnal cycle of rainfall over Darwin	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	83
Jensen	Michael	Exploring Variability of the Level of Neutral Buoyancy and Level of Maximum Detrainment for Deep Convective Clouds	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	84
Lin	Lin	Effects of Convective Ice Fall Velocity and Detrainment on Anvil Clouds: Single-Column Model Testing with NCAR CAM6 Evaluated with the ARM TWP-ICE and MC3E Data	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	85
Louf	Valentin	Interactions between the atmospheric large-scale and the small-scale tropical convection using 15 years of data	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	86
Oue	Mariko	An analysis of dynamical and microphysical characteristics using wind profiler and C-band scanning radars for deep convective clouds observed during CACTI field campaign	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	87
Rutledge	Steven	Aerosol and CAPE Sensitivity Simulations with the NASA WRF bin microphysical model	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	88
Serra	Yolande	Investigating the impacts of Kelvin wave activity on convection in the Amazon through observations and model experiments	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	89
Van Lier-Walqi	Marcus	New Insights into Convective Updraft Kinematics and Microphysics Provided by the ARM SGP X-SAPR Network	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	65
Varble	Adam	Effects of under-resolved convective dynamics on mesoscale convective evolution	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	90
Wang	Die	Updraft and Downdraft Core Kinematics of Mesoscale Convective Systems through Observations and Idealized Simulations	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	103
Wei	Xin	Buoyancy sorting versus two-point mixing: investigating mixing in shallow cumuli using RACORO observations, LES, and Lagrangian particle tracking	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	104
Yang	Da	Entrainment, Convective Heating and Organized Convection	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	105
Zhang	Guang	Eliminating Double ITCZ in the NCAR CESM1 through Improvement of Convection Parameterization	Convective clouds, including aerosol interactions	A1	Tues 3:30 - 5:00 pm	106
Heikoop	Jeffrey	COMBLE: Studying Norwegian Sea's Cold-Air Outbreaks	General topics	A1	Tues 3:30 - 5:00 pm	62
Jung	Joon-Hee	Development of a Global Quasi-3-D Multiscale Modeling Framework	General topics	A1	Tues 3:30 - 5:00 pm	27
Lu	Yuping	Deep Convolutional Neural Networks for Hydrometeor Classification using Dual Polarization Doppler Radars	General topics	A1	Tues 3:30 - 5:00 pm	28
Patel	Nita	Argentinian CACTI Campaign Reveals Storm Life Cycles, Evolution	General topics	A1	Tues 3:30 - 5:00 pm	64
Powers	Heath	MOSAIC: the World's Largest Central-Arctic Expedition	General topics	A1	Tues 3:30 - 5:00 pm	63

Prakash	Giri	A new and user centric data discovery tool to access the ARM data	General topics	A1	Tues 3:30 - 5:00 pm	29
Theisen	Adam	Development of a Framework to Allow for Easy Sharing of Code	General topics	A1	Tues 3:30 - 5:00 pm	30
Brechtel	Fred	Portable aerosol instruments for deployment on Unmanned Aerial Systems	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	1
China	Swarup	Influence of Free-tropospheric Aerosol at the Boundary Layer in Remote Marine Environment	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	2
Farmer	Delphine	Observational constraints of wet and dry deposition of black carbon and aerosols	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	3
Hudson	James	Cloud processing and photoparticle production from cloud remote sensing and surface aerosol size spectra at SGP	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	4
Kassianov	Evgueni	Aerosol Properties during two IOPs at the ARM ENA Site	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	5
Kroll	Jesse	New project: Exploring natural aerosol formation from DMS oxidation and implications for aerosol forcing	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	6
Laskin	Alexander	Ice Nucleation Activity of Laboratory Generated Soil Organic Particles	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	7
Marinescu	Peter	Aerosol size distributions and cloud condensation nuclei spectra and their temporal variability in the Southern Great Plains	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	8
Schloesser	Herbert	Integrating Sphere-Based Nephelometer for UAS Applications	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	9
Smith	James	Exploring the impacts of relative humidity on new particle formation mechanisms	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	10
Springston	Stephen	ARM Aerosol Measurement Plan Progress	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	21
Steiner	Allison	Biological aerosols and their role on cloud-aerosol interactions in the Southern Great Plains	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	22
Watson	Thomas	Results of the Second DOE ARM Aerosol Chemical Speciation Monitor (ACSM) users meeting	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	23
West	Matthew	Making unknown unknowns more known: Quantifying structural uncertainties of MAM3/7 with the particle-resolved model WRF-PartMC	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	24
Zhang	Qi	Insights from Eight Years of Aerosol Composition Measurements at SGP: Aerosol Chemistry, Sources, Processes, and Seasonal Trends	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	25
Zieger	Paul	Evaluation and improvement of the parameterization of aerosol hygroscopicity in global climate models using in-situ surface measurements	General topics - Aerosols	A1	Tues 3:30 - 5:00 pm	26
Cadeddu	Maria	Reconciling cloud and drizzle liquid water path information from active and passive sensors: A case study	General topics - Clouds	A1	Tues 3:30 - 5:00 pm	41
Kedzif	Nicholas	Ice number concentration retrievals from scanning cloud radar measurements for studying secondary ice production	General topics - Clouds	A1	Tues 3:30 - 5:00 pm	48
Klein	Marian	Profiling Airborne Microwave Radiometer - PAMR	General topics - Clouds	A1	Tues 3:30 - 5:00 pm	42
McAdams	Daniel	Holographic Cloud Particle Imager (HCPI) Phase II Update	General topics - Clouds	A1	Tues 3:30 - 5:00 pm	43
Mei	Fan	Aircraft cloud measurements during ACE-ENA	General topics - Clouds	A1	Tues 3:30 - 5:00 pm	44
Morris	Victor	Fractional Sky Cover Measurement for the ARM User Facility	General topics - Clouds	A1	Tues 3:30 - 5:00 pm	46
Song	Jaemin	Melting layer height estimation using Ka-band cloud radars	General topics - Clouds	A1	Tues 3:30 - 5:00 pm	47
Thieman	Mandana	SatCORPS Satellite-Derived Cloud and Radiation Properties: Overview of ARM Domain Coverage	General topics - Clouds	A1	Tues 3:30 - 5:00 pm	49
Zhou	Xiaoli	Understanding mesoscale organization of closed-cell marine stratocumulus using large-eddy simulation and observations from the ARM Eastern North Atlantic Site	General topics - Clouds	A1	Tues 3:30 - 5:00 pm	45

Creamean	Jessie	Northern Alaska Site Science: Three years of tethered balloon activities for evaluation of Arctic aerosol-cloud interactions	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	71
Delamere	Jennifer	Multi-instrument "Forensic" Approach to Understanding NSA Winter Precipitation Events	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	73
Dexheimer	Darielle	ARM Tethered Balloon System Measurements from POPEYE IOP at AMF3	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	72
Diao	Minghui	Microphysical Properties of Mixed-phase and Ice Clouds over the Southern Ocean and Antarctica and Comparison with NCAR CAM model	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	75
Fitch	Kyle	Thin Clouds Producing Graupel in the Arctic	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	74
Hu	Yazhe	Characteristics of the cold-air outbreak cloud regime over the Southern Ocean, as observed in MARCUS	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	76
Igel	Adele	Dissipation of Mixed-Phase Arctic Clouds and Its Relationship to Aerosol Properties	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	77
Kulkarni	Gourihar	A new method for operating a continuous flow diffusion type ice chamber to investigate immersion freezing: assessment and performance study	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	78
Liu	Xiaohong	Effects of Marine Organic Aerosol as Sources of Ice Nucleating Particles on Mixed-Phase Clouds at High Latitudes	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	79
Maahn	Maximilian	Northern Alaska Site Science: Instrument quality and data stream developments	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	91
Mace	Gerald	Processes Associated with Boundary Layer Cloud Ice Phase Precipitation in the High Southern Latitudes	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	92
Matrosov	Sergey	Northern Alaska Site Science: Cloud and precipitation microphysical studies at the Northern Alaska ARM facilities	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	93
Pratt	Kerri	Wintertime Atmospheric Aerosol Chemical Composition, Sources, and Mixing States on the North Slope of Alaska	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	80
Shupe	Matthew	The Scientific Possibilities of MOSAiC	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	94
Silber	Israel	Highly Supercooled Drizzling Stratus Over Antarctica: A Good Test for Climate Models?	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	95
Tridon	Frederic	Development of modular ice microphysics retrieval for AWARE and other ARM sites	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	96
Verlinde	Johannes	Cloud and water vapor Influences on ERA5, AMPS, and ModeE3 Surface Downwelling Longwave Radiation Biases in West Antarctica	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	97
Wood	Norman	Characteristics of snow regimes at North Slope Alaska as derived from the NSA snowfall product	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	98
Yang	Fan	Evaluating the effect of coupled-to-decoupled transition of the atmospheric boundary layer on the change of phase partitioning in the mixed-phase stratiform clouds	High-latitude clouds and aerosols	B2	Wed 5:00 - 6:30 pm	99
Burrows	Susannah	Understanding and modelling sources of ice nucleating particles in Earth System Models	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	71
Cantrell	Will	Laboratory Measurements of Aerosol Scavenging in a Cloudy, Turbulent Environment	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	91
Dolan	Brenda	Investigation of precipitation processes with RAMS and observations	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	97
Dunnavan	Edwin	Snowflakes are Not Spheres or Spheroids: What is the "True" Shape and Density Evolution of Snow Aggregates	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	78

Eloranta	Edwin	Near Zenith Variation of the Lidar Ratio - High Spectral Resolution Lidar Observations of Oriented Ice Crystals	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	79
Finlon	Joseph	Using MC3E In-situ Data to Develop Stochastic Representations of Cloud Microphysics for Models	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	75
Giangrande	Scott	Midlatitude Oceanic Cloud and Precipitation Properties as Sampled By the ARM Eastern North Atlantic Observatory	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	110
Hiranuma	Naruki	The Portable Ice Nucleation Experiment (PINE): a new commercially available instrument to advance atmospheric ice nucleation research	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	72
Knopf	Daniel	Ice Nucleation by Laboratory-Generated and Ambient Particles, Its Representation in Global Models, and the Role of Secondary Ice Multiplication Processes	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	73
Kumjian	Matthew	Probabilistically informing a new class of particle-property predicting bulk ice microphysics schemes with ARM radar observations	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	76
Laura	Fierce	Quantifying the sensitivity of aerosol-cloud interactions to the representation of aerosol physical and chemical properties	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	92
Lee	Hyunho	An evaluation of size-resolved cloud microphysics scheme numerics for use with radar observations. Part 2. Water vapor diffusion	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	94
Lu	Chunsong	Scale Dependence of Entrainment-Mixing Mechanisms in the Stratocumulus Clouds during ACE-ENA	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	111
McGraw	Robert	Quantifying Aerosol Surfactant Effects on Cloud Droplet Activation	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	93
McMeeking	Gavin	A miniaturized, lower cost static diffusion chamber for cloud condensation nuclei measurements	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	95
Przybylo	Vanessa	Investigating aggregate properties using a multi-faceted modeling approach	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	80
Reimel	Karly	Optimally leveraging radar observations to provide information on rain microphysical processes	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	77
Ryzhkov	Alexander	Polarimetric radar microphysical retrievals in continental and tropical storms	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	98
Schmitt	Carl	How important is microphysical variability to atmospheric cloud processes? Quantification of variability and impact on forecast model results.	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	99
Stanford	McKenna	Evaluating a Stochastic Ice Microphysics Parameterization Scheme in Simulations of Deep Convection	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	74
Wang	Meng	A Use Case: the Operational Ground-Based Retrieval Evaluation for Clouds (OGRE-CLOUDS) Framework	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	100

Wechsler	Perry	The Alpenglow Instruments All Phase Water Probe - Instrument Development and Preliminary Results	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	96
Williams	Christopher	Using ARM-SGP multi-sensor datasets to investigate precipitation characteristics and vertical variability	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	109
Wu	Peng	Developing new methods to retrieve MBL cloud and drizzle microphysical properties using ground-based and aircraft in situ measurements during ACE-ENA	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	112
Yeom	JaeMin	Examination of cloud microphysical relationships and their implication on entrainment and mixing processes in stratocumulus clouds measured during the ACE-ENA Campaign	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	113
Zhu	Zeen	Quantifying cloud liquid water content in cumulus and stratiform clouds using dual wavelength scanning ARM cloud radar observations	Microphysics (cloud, aerosol and/or precipitation)	A2	Tues 5:00 - 6:30 pm	114
Kutchenreiter	Mark	Ventilator Improvements for Reducing Radiometer Frost, Snow and Ice Accumulation	Radiation	B2	Wed 5:00 - 6:30 pm	11
Marshak	Alexander	Cloud edge properties measured by the ARM shortwave spectrometers over ocean and land	Radiation	B2	Wed 5:00 - 6:30 pm	12
Mlawer	Eli	Analysis of Climate-Relevant Gas Absorption Properties from ARM Spectral Measurements	Radiation	B2	Wed 5:00 - 6:30 pm	13
Reda	Ibrahim	Recent Updates about the Absolute Cavity Pyrgeometer (ACP) and InfraRed Integrating Sphere (IRIS) in an Effort to Establish a World Reference for Measuring the Atmospheric Longwave Irradiance	Radiation	B2	Wed 5:00 - 6:30 pm	14
Rutan	David	Assimilation of Satellite Aerosol Observations Into NASA LaRC's CERES SYN1deg Data Product - Validation and Effect on Surface Radiative Transfer Results	Radiation	B2	Wed 5:00 - 6:30 pm	15
Aiken	Allison	Aged Biomass Burning Aerosol: BC-dominated Absorbing Plumes Observed at Ascension Island within the Marine Boundary Layer during LASIC	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	41
Collow	Allison	Thermodynamic, Cloud, and Radiative Heating Profiles over Ascension Island during the 2016 and 2017 Biomass Burning Seasons	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	42
Dawson	Kyle	Lidar-Retrieved Aerosol Humidification Factors at SGP Derived from CHARMS	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	44
de Boer	Gijs	POPEYE (Profiling at Oliktok Point to Enhance YOPP Experiments): A Campaign Overview	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	61
DeMott	Paul	Spatial and Temporal Variability of Ice Nucleating Particles over the Southern Ocean	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	63
Desai	Neel	New Microphysical Insights from Analysis of Centimeter-Resolution Holographic Data during ACE-ENA	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	46
Goldberger	Lexie	Atmospheric Turbulent Structures inferred from small Unmanned Aerial Systems in the Arctic as part of the POPEYE Campaign	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	62
Jane	Mary	Parsivel2 Precipitation Observations from the Southern Ocean	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	64
Johnson	Karen	A First Look at Cloud Radar Value-Added Products during the CACTI ARM Mobile Facility Deployment	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	68
Kuang	Chongai	The Contribution of Aerosol Formation and Growth to the Budget of Cloud Condensation Nuclei Observed at the ARM Southern Great Plains Site	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	45

Loeb	Nicole	Detection and Characteristics of Blowing Snow during the AWARE Field Campaign	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	66
Lubin	Dan	Cloud Optical Properties Over Antarctica From Shortwave Spectral and Broadband Measurements During AWARE	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	67
Marchand	Roger	Datasets and Early Results from MARCUS and MICRE	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	65
Matthews	Alyssa	Overview and Highlights of the ARM Aerial Facility data during the CACTI field campaign	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	69
Moffet	Ryan	Individual Particle Characterization of the Carbon Content of Aerosols Collected in the Eastern North Atlantic	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	47
Muradyan	Paytsar	Vertical Distribution and Monthly Variability of Biomass Burning Aerosols as observed by the Micropulse Lidar during LASIC	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	43
Nesbitt	Steve	Radar observations of convective processes during CACTI	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	70
Tian	Yang	Analysis of the shallow-to-deep convection transition in GoAmazon observations	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	29
Wang	Jian	Overview and Early results of Aerosol and Cloud Experiments in Eastern North Atlantic (ACE-ENA)	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	48
Zawadowicz	Maria	Aerosol and Cloud Chemistry During the ACE-ENA Campaign	Results from recent ARM field campaigns	B1	Wed 3:30 - 5:00 pm	49
Chuang	Wayne	A Computationally Efficient Chemistry, Thermodynamics, and Microphysics Model to Study Atmospheric Evolution of Organic Aerosol	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	101
Croteau	Philip	Development of an Autonomous Aerosol Chemical Speciation Monitor with Integrated Calibration and Quality Assurance Capability	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	102
Fast	Jerome	Multi-Scale Simulations of Biogenic Volatile Organic Compounds Around the SGP Site during HI-SCALE	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	103
Fredrickson	Carley	The Impacts of NO _x on the Composition, Volatility, and Aging Characteristics of Biogenic and Anthropogenic Secondary Organic Aerosol	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	104
Jimenez	Jose-Luis	Gas/Particle Partitioning of L/SVOC into Probe Particles, SOA, and tubing; and parameterizing isoprene SOA for climate models	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	105
Lu	Zifeng	Inventory of Speciated Non-methane Organic Compounds Emissions from Open Biomass Burning	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	106
MouchelVallon	Camille	Lessons learned from simulating SOA formation in the Manaus plume with a detailed organic chemistry mechanism	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	107
Petters	Markus	Application of the Dual Tandem DMA Method to Study the Amorphous Phase Transition of Organic Aerosols	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	108
Shilling	John	Measurements of SOA photolysis rates and their atmospheric implications	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	83
Shiraiwa	Manabu	Impacts of phase state on secondary organic aerosol partitioning and amine uptake by particles	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	84
Shrivastava	Manishkumar	Using the Amazon as a natural laboratory to understand anthropogenic enhancement of biogenic SOA	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	85
Thornton	Joel	Chamber-based insights into the factors controlling IEPOX SOA yield, composition, and volatility	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	86
Volkamer	Rainer	Assessing the drivers of Isoprene SOA: laboratory studies, calculations and modeling	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	87

Zaveri	Rahul	Growth of urban ultrafine aerosols and their impact on shallow clouds and precipitation in the Amazon rainforest	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	88
Zelenyuk/mre	Alla	Formation and Properties of Secondary Organic Aerosol Particles Generated by Ozonolysis of β -Caryophyllene with and without the Presence of Gas-phase Pyrene	Secondary organic aerosol	B1	Wed 3:30 - 5:00 pm	89
Ahlgrimm	Maike	The role of lateral entrainment in the shallow convective cloud response to boundary layer perturbations	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	16
Endo	Satoshi	Reconciling differences between large-eddy simulations and Doppler-lidar observations of continental shallow cumulus cloud-base vertical velocity	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	17
Feldman	Daniel	Exploring the Secret Life of Low Clouds: A Proof-of-Principle for a Nocturnal Low-Cloud Mask during the PECAN Field Campaign	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	18
Feng	Yan	Characterization of aerosol above-cloud incidence and optical properties over the southeastern Atlantic	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	31
Ghate	Virendra	Boundary Layer Thermodynamic Decoupling at the ARM ENA Site	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	19
Glenn	Ian	Meteorology both masks and magnifies the aerosol-cloud radiative effect	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	32
Heus	Thijs	Direct comparison of LES of cumulus convection with ARM-SGP observations	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	33
Kleiss	Jessica	Shallow Cumuli at the SGP Site: Macro- and Microphysical Properties	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	34
Kollias	Pavlos	Characterization of Shallow Oceanic Precipitation using Profiling and Scanning Radar Observations at the Eastern North Atlantic ARM Observatory	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	35
Lamer	Katia	ARM Remote Sensors Reveal Higher Frequency of Occurrence of Clouds and Drizzle in the Eastern North Atlantic: How ground-based observations can complement CloudSat/Calipso	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	20
Lareau	Neil	Lidar Observations of Updrafts and Water Vapor Anomalies at ARM SGP on Days with Cumulus Convection	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	37
Li	Zhanqing	Determination of the decoupling degree and cloud-base updrafts of marine stratocumulus using satellite and the MAGIC campaign data	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	38
Mechem	David	Characterizing the Impact of Entrainment Rate in Stratocumulus from ARM Observations and Large-Eddy Simulations	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	39
Naud	Catherine	Large scale drivers versus local processes impacts on post-cold frontal cloud properties in observations and CAM6	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	40
Posselt	Derek	Bayesian Cloud Property Retrievals for Shallow Liquid Clouds	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	36
Rad	Melissa	Simulations and Observations of Summertime Frontal Clouds Over the Eastern North Atlantic	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	51
Romps	David	Observing clouds in 4D with multiview stereophotogrammetry	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	52
Wood	Robert	Observations of aerosol and cloud structure from the G-1 and the ENA site during ACE-ENA	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	53
Xiao	Heng	Testing alternative formulations of the double-Gaussian PDF closure in CLUBB	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	54

Zhang	Damao	Evaluating Cloud Number Concentration Retrievals in Marine Stratocumulus with ACE-ENA Measurements	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	57
Zhang	Jianhao	Understanding the reduction of low clouds in the smoky boundary layer of the remote SE Atlantic using LASIC observations and regional climate modeling	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	56
Zhang	Yunyan	The diurnal cycle of shallow cumulus clouds over land: A single column model study using E3SMv1	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	55
Zhao	Wei	The Effect of Spatial Variability on Autoconversion and Accretion rate in Eastern North Atlantic Boundary Layer Clouds	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	58
Zheng	Xue	Assessment of Precipitating Marine Stratocumulus in EAMv1: A Case Study during the ARM MAGIC Campaign	Warm low clouds, including aerosol interactions	B2	Wed 5:00 - 6:30 pm	59