

Day 4 **Thursday, September 12, 2024**

		8:45	9:15	Keynote
Session	1	Aula Magna		Space borne clouds and precipitation radar
	1	9:20	9:35	THE NASA INCUS MISSION AND OBSERVATIONS OF CONVECTIVE MASS FLUX THROUGH REFLECTIVITY DIFFERENCING 1) Brenda Dolan, 2) Susan van den Heever, 3) Pavlos Kollias, 4) Peter Marinescu, 5) Derek Posselt, 6) Randy Chase, 7) Kristen Rasmussen, 8) Rick Schulte, 9) Jennie Bukowski, 10) Itinderjit Singh, 11) Leah Grant 1) Colorado State University, 2) Colorado State University, 3) Stony Brook University - Brookhaven National Laboratory - , 4) Colorado State University, 5) Jet Propulsion Laboratory, 6) Colorado State University - Cooperative Institute for Research in the Atmosphere - , 7) Colorado State University, 8) Colorado State University, 9) Colorado State University, 10) Colorado State University, 11) Colorado State University
	2	9:35	9:50	CHARACTERIZING WINDS AND CLOUDS INSIDE TROPICAL CYCLONES WITH THE PROPOSED ESA EARTH EXPLORER 11 WIVERN MISSION 1) Frederic Tridon, 2) Alessandro Battaglia, 3) Ali Rizik, 4) Anthony Illingworth 1) Department of Environment, Land and Infrastructure Engineering, Polytechnic of Turin, Turin, Italy, 2) Department of Environment, Land and Infrastructure Engineering, Polytechnic of Turin, Turin, Italy, 3) Department of Environment, Land and Infrastructure Engineering, Polytechnic of Turin, Turin, Italy, 4) Department of Meteorology, University of Reading, Reading, UK
	3	9:50	10:05	CLOUD AND PRECIPITATION MICROPHYSICAL RETRIEVALS FROM THE EARTHCARE CLOUD PROFILING RADAR: THE C-CLD PRODUCT 1) Kamil Mroz, 2) Bernat Puidgomènech Treserras, 3) Alessandro Battaglia, 4) Pavlos Kollias, 5) Frederic Tridon 1) National Centre for Earth Observation, University of Leicester, UK, 2) Department of Atmospheric and Oceanic Sciences, McGill University, Montreal, Canada, 3) Politecnico of Turin, Turin, Italy, 4) Division of Atmospheric Sciences, Stony Brook University, NY, USA - Department of Atmospheric and Oceanic Sciences, McGill University, Montreal, Canada - , 5) Politecnico di Turin, Turin, Italy
	4	10:05	10:20	VALIDATION OF EARTHCARE REFLECTIVITY WEIGHTED MEAN DOPPLER VELOCITY IN RAINFALL BY USING DUAL-POLARIZATION WEATHER RADAR OBSERVATIONS 1) Bernd Mom, 2) Mario Montopoli, 3) Alessandro Bracci, 4) Elisa Adirosi, 5) Luca Baldini, 6) Dmitri Moiseev 1) University of Helsinki, Helsinki, Finland, 2) National Research Council, Institute of Atmospheric Sciences and Climate, Italy - Center of Excellence Telesensing of Environment and Model Prediction of Severe Events (CETEMPS), L'Aquila, Italy - , 3) National Research Council, Institute of Atmospheric Sciences and Climate, Italy, 4) National Research Council, Institute of Atmospheric Sciences and Climate, Italy, 5) National Research Council, Institute of Atmospheric Sciences and Climate, Italy, 6) University of Helsinki, Helsinki, Finland - Finnish Meteorological Institute, Helsinki, Finland -
	5	10:20	10:35	CLOUD-PRECIPITATION PARTICLE CATEGORIES OBSERVED FROM SPACE BORNE ACTIVE SENSOR 1) Kaori Sato, 2) Hajime Okamoto 1) Research Institute for Applied Mechanics, Kyushu University, 2) Research Institute for Applied Mechanics, Kyushu University
	6	10:35	10:50	EVALUATION OF THE POTENTIALITIES OF A SYNERGISTIC USE OF SATELLITE RADAR AND RADIOMETER OBSERVATIONS FOR SNOWFALL RETRIEVAL 1) Andrea Camplani, 2) Daniele Casella, 3) Paolo Sanò, 4) Leo Pio D'Adderio, 5) Stefano Sebastianelli, 6) Giulia Panegrossi, 7) Alessandro Battaglia 1) Institute of Atmospheric Sciences and Climate - National Research Council of Italy, 2) Institute of Atmospheric Sciences and Climate - National Research Council of Italy, 3) Institute of Atmospheric Sciences and Climate - National Research Council of Italy, 4) Institute of Atmospheric Sciences and Climate - National Research Council of Italy, 5) Institute of Atmospheric Sciences and Climate - National Research Council of Italy, 6) Institute of Atmospheric Sciences and Climate - National Research Council of Italy, 7) Department of Environment, Land and Infrastructure Engineering (DIATI), Politecnico di Torino, Turin, Italy
Session	2	Aula Archeologia		Radar and society
	1	9:20	9:35	OPEN RADAR SCIENCE 1) Scott Collis, 2) Kai Mühlbauer, 3) Max Grover, 4) Zach Sherman, 5) Robert Jackson, 6) Mike Dixon, 7) Michael Bell, 8) Stephen W. Nesbitt, 9) Robin Tanamachi, 10) Daniel Michelson, 11) Joshua Soderholm, 12) Brian Rose, 13) Kevin Tyle, 14) Tom Nicholas 1) Environmental Sciences Division, Argonne National Laboratory, 2) Institute of Geosciences, Meteorology Section, University Bonn, Germany, 3) Environmental Science Division, Argonne National Laboratory, 4) Environmental Science Division, Argonne National Laboratory, 5) Environmental Science Division, Argonne National Laboratory, 6) National Center for Atmospheric Research, 7) Department of Atmospheric Science, Colorado State University, 8) Department of Climate, Meteorology & Atmospheric Sciences, University of Illinois Urbana-Champaign, 9) Department of Earth, Atmospheric, and Planetary Sciences, Purdue University, 10) Environment and Climate Change Canada, 11) Science and Innovation Group, Bureau of Meteorology, Australia, 12) Department of Atmospheric and Environmental Sciences, University at Albany (State University of New York), 13) Department of Atmospheric and Environmental Sciences, University at Albany (State University of New York), 14) CWorthy LLC
	2	9:35	9:50	THE LIDAR RADAR OPEN SOFTWARE ENVIRONMENT (LROSE) SCIENCE GATEWAY: RADAR ANALYSIS IN THE CLOUD 1) Jennifer DeHart, 2) Brenda Javornik, 3) Ana Espinoza, 4) Michael Bell, 5) Julien Chastang, 6) Michael Dixon 1) Colorado State University, 2) National Center for Atmospheric Research, 3) NSF Unidata, 4) Colorado State University, 5) NSF Unidata, 6) National Center for Atmospheric Research
	3	9:50	10:05	THE ROLE OF WEATHER RADAR APPLICATIONS IN ENVIRONMENTAL IMPACT ASSESSMENTS 1) Nadja Weisshaupt, 2) Pekka Alho 1) Finnish Meteorological Institute, 2) Turku University of Applied Sciences
	4	10:05	10:20	COMPARING RADAR DATA AND PRECIPITATION GROUND TRUTH: WHERE CAN IOT SENSORS HELP? 1) Thomas Einfalt, 2) Bruno Castro, 3) Annika Jahnke-Bornemann 1) hydro & meteo GmbH, 2) hydro & meteo GmbH, 3) hydro & meteo GmbH
	5	10:20	10:35	PROPOSAL OF HAIL FORECAST METHOD AND PERFORMANCE EVALUATION UTILIZING SOCIAL MEDIA POST DATA 1) Yuta Ozawa, 2) Takahisa Wada, 3) Satoshi Kida, 4) Masakazu Wada, 5) Yasunori Nakagawa, 6) Osamu Yamanaka 1) Infrastructure Systems Research and Development Center, Toshiba Infrastructure Systems & Solutions Corporation, 2) Infrastructure Systems Research and Development Center, Toshiba Infrastructure Systems & Solutions Corporation, 3) Toshiba Corporation, 4) Toshiba Corporation, 5) Toshiba Digital Solutions Corporation, 6) Infrastructure Systems Research and Development Center, Toshiba Infrastructure Systems & Solutions Corporation
	6	10:35	10:50	RADAR PRODUCTS AT THE ESSL TESTBED AND THE TIM FIELD CAMPAIGN 1) Pieter Groenemeijer, 2) Alois M. Holzer, 3) Tomáš Půček, 4) Francesco Battaglioli, 5) Stefan Eisenbach, 6) Jannick Fischer 1) European Severe Storms Laboratory, 2) European Severe Storms Laboratory, 3) European Severe Storms Laboratory, 4) European Severe Storms Laboratory, 5) European Severe Storms Laboratory, 6) Institute for Meteorology and Climatology, Karlsruhe Institute of Technology
Session	3	Aula Magna		Operational aspects
	1	14:15	14:30	THE NEW CANADIAN WEATHER RADAR NETWORK - FROM PROJECT TO OPERATIONS 1) Qian Li, 2) Sylvain Laramée, 3) Steven Brady, 4) Michael Romaniuk 1) National Radar Operations, Meteorological Service of Canada, Environment and Climate Change Canada - Canadian Weather Radar Replacement Program, Meteorological Service of Canada, Environment and Climate Change Canada - , 2) Canadian Weather Radar Replacement Program, Meteorological Service of Canada, Environment and Climate Change Canada, 3) National Radar Operations, Meteorological Service of Canada, Environment and Climate Change Canada, 4) National Radar Operations, Meteorological Service of Canada, Environment and Climate Change Canada
	2	14:30	14:45	RADAR NETWORK DEPLOYMENT IN COMPLEX TERRAIN 1) Renzo Bechini, 2) V. Chandrasekar, 3) Rob Cifelli, 4) Francesc Junyent 1) Arpa Piemonte - Colorado State University - , 2) Colorado State University, 3) NOAA, 4) Colorado State University
	3	14:45	15:00	MITIGATING RADIOFREQUENCY INTERFERENCE IMPACTING CANADA'S S-BAND WEATHER RADARS 1) Hamid hamid 1) Environment Canada - Environment Canada - Environment Canada
	4	15:00	15:15	INCORPORATING X-BAND RADAR OBSERVATIONS INTO THE GERMAN C-BAND NETWORK 1) Nikolaos Antonoglou, 2) Manuel Werner, 3) Ulrich Blahak, 4) Kathleen Helmert 1) Deutscher Wetterdienst, 2) Deutscher Wetterdienst, 3) Deutscher Wetterdienst, 4) Deutscher Wetterdienst
	5	15:15	15:30	A WIND TURBINE CLUTTER MITIGATION SOLUTION FOR THE NEXRAD NETWORK 1) Feng Nai, 2) Sebastián Torres 1) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma - NOAA/OAR National Severe Storms Laboratory - , 2) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma - NOAA/OAR National Severe Storms Laboratory -
	6	15:30	15:45	VARIABILITY OF THE WEATHER RADAR ALGORITHMS ACROSS THE ITALIAN TERRITORY 1) Elisa Adirosi, 2) Federico Porcù, 3) Mario Montopoli, 4) Luca Baldini, 5) Alessandro Bracci, 6) Sabina Angeloni, 7) Vincenzo Capozzi, 8) Clizia Annella, 9) Giorgio Budillon, 10) Edoardo Bucchignani, 11) Alessandra Lucia Zollo, 12) Orietta Cazzuli, 13) Giulio Camisani, 14) Gian Paolo Minardi, 15) Renzo Bechini, 16) Roberto Cremonini, 17) Andrea Antonini, 18) Alberto Ortolani, 19) Samantha Melani, 20) Lorenzo Luini, 21) Roberto Nebuloni, 22) Vincenzo Rizi, 23) Paolo Valisa, 24) Simone Scapin, 25) Mauro Cottelli, 26) Giuseppe Giannello, 27) Giacomo Cavalli, 28) Roberto Pinna Nossai

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	7	15:45	16:00	ROC/NSSL RADAR PRODUCT IMPROVEMENT: AN RZO SUCCESS STORY 1) <i>Larry Hopper</i> , 2) <i>Michael Istok</i> , 3) <i>Terry Schuur</i> 1) NOAA/National Severe Storms Laboratory, 2) NOAA/National Weather Service Radar Operations Center, 3) University of Oklahoma Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO) - NOAA/National Severe Storms Laboratory -
	8	16:00	16:15	PLANNING FOR NOAA'S NEXT GENERATION DOPPLER WEATHER RADAR SYSTEM 1) <i>Michael Istok</i> , 2) <i>Ajay Mehta</i> , 3) <i>Terrance Clark</i> , 4) <i>Frank Gallagher</i> , III, 5) <i>Mathew Grow</i> , 6) <i>Jessica Schultz</i> 1) NOAA / NWS / Office of Observations, 2) NOAA / NWS / Office of Observations, 3) NOAA / NWS / Office of Observations, 4) NOAA / NWS / Office of Observations, 5) NOAA / NWS / Office of Observations, 6) USAF/AFM/CLM/C/IBAW/O-L-K
Session	4	Aula Archeologia		Radar hydrometeorological applications
	1	14:15	14:30	ASSESSING THE ACCURACY OF RADAR RAINFALL AT CATCHMENT SCALE ACROSS GREAT BRITAIN 1) <i>Miguel Angel Rico-Ramirez</i> , 2) <i>Jiao Wang</i> , 3) <i>Dawei Han</i> 1) University of Bristol, 2) University of Bristol, 3) University of Bristol
	2	14:30	14:45	A NEW QPE METHOD FOR WINTER RAIN EVENTS APPLIED TO THE GERMAN RADAR NETWORK 1) <i>Raquel Evaristo</i> , 2) <i>Ju-yu Chen</i> , 3) <i>Alexander Ryzhkov</i> , 4) <i>Silke Trömet</i> 1) University of Bonn, 2) University of Bonn, 3) NSSL NOAA - Oklahoma University - , 4) University of Bonn
	3	14:45	15:00	OPTIMIZED RADAR RELATIONS FOR SNOW ESTIMATION VIA GROUND-BASED PARAMETER RETRIEVALS 1) <i>Petar Bukovic</i> , 2) <i>Alexander Ryzhkov</i> , 3) <i>Dusan Zrnica</i> 1) The University of Oklahoma - CIWRO - National Severe Storms Laboratory - , 2) The University of Oklahoma - CIWRO - National Severe Storms Laboratory - , 3) National Severe Storms Laboratory
	4	15:00	15:15	SNOW QUANTITATIVE PRECIPITATION ESTIMATION FROM THE CANADIAN S-BAND RADAR NETWORK. 1) <i>Sudesh Boodoo</i> , 2) <i>Norman Donaldson</i> , 3) <i>Daniel Michelson</i> 1) Environment and Climate Change Canada, 2) Environment and Climate Change Canada, 3) Environment and Climate Change Canada
	5	15:15	15:30	SURFACE QUANTITATIVE PRECIPITATION ESTIMATES (SQUIRE) FROM THE X-BAND PRECIPITATION RADAR DURING THE SURFACE ATMOSPHERE INTEGRATED FIELD LABORATORY (SAIL) EXPERIMENT 1) <i>Robert Jackson</i> , 2) <i>Max Grover</i> , 3) <i>Joseph O'Brien</i> , 4) <i>Scott Collis</i> , 5) <i>Adam Theisen</i> , 6) <i>Zach Sherman</i> , 7) <i>Bhupendra Raut</i> , 8) <i>Matt Tufteald</i> , 9) <i>V. Chandrasekar</i> , 10) <i>Dan Feldman</i> 1) Argonne National Laboratory, 2) Argonne National Laboratory, 3) Argonne National Laboratory, 4) Argonne National Laboratory, 5) Argonne National Laboratory, 6) Argonne National Laboratory, 7) Argonne National Laboratory, 8) Argonne National Laboratory, 9) Colorado State University, 10) Lawrence Berkeley National Laboratory
	6	15:30	15:45	ADVANCED OPERATIONAL COMPOSITE FOR MULTI-FREQUENCY POLARIMETRIC WEATHER RADAR OBSERVATIONS IN COMPLEX TERRAIN: THE AQPI STORY 1) <i>Roberto Cremonini</i> , 2) <i>Sounak Biswas</i> , 3) <i>C. Radhakrishnan</i> , 4) <i>V. Chandrasekar</i> , 5) <i>Rob Cifelli</i> 1) Colorado State University - ARPA Piemonte - , 2) Colorado State University - NOAA Physical Sciences Laboratory - , 3) Colorado State University, 4) Colorado State University, 5) NOAA Physical Sciences Laboratory
	7	15:45	16:00	OPERATIONAL SATELLITE PRECIPITATION PRODUCTS COMBINED WITH GROUND OBSERVATION FOR HYDROLOGICAL PURPOSES: CASE STUDIES AND APPLICATIONS 1) <i>Nicoletta Roberto</i> , 2) <i>Alexander Toniazzo</i> , 3) <i>Marco Petracca</i> , 4) <i>Luca Brocca</i> , 5) <i>Luca Ciabatta</i> , 6) <i>Simone Gabellani</i> , 7) <i>Silvia Puca</i> 1) Italian Civil Protection Department, 2) Italian Civil Protection Department, 3) ISAC-CNR, 4) IRPI-CNR, 5) IRPI-CNR, 6) CIMA, 7) Italian Civil Protection Department
	8	16:00	16:15	THE USE OF BULK ZDR TO MITIGATE BIASES IN MRMS SPECIFIC ATTENUATION BASED QPE 1) <i>Stephen Cocks</i> , 2) <i>Lin Tang</i> , 3) <i>Jian Zhang</i> 1) CIWRO - NSSL - , 2) CIWRO - NSSL - , 3) NSSL
Session	5	Aula Magna		Radar hydrometeorological applications
	1	14:15	14:30	A NEW METHODOLOGY FOR RAINFALL ESTIMATION USING SPECIFIC ATTENUATION 1) <i>Alexander Ryzhkov</i> , 2) <i>Pengfei Zhang</i> 1) University of Oklahoma - National Severe Storms Laboratory - , 2) University of Oklahoma - National Severe Storms Laboratory -
	2	14:30	14:45	MERGING QUANTITATIVE PRECIPITATION ESTIMATES FROM A RESEARCH RADAR WITH AN OPERATIONAL COMPOSITE - THE IMPORTANCE OF QUALITY 1) <i>David Dufton</i> , 2) <i>Lindsay Bennett</i> , 3) <i>Steve Cole</i> , 4) <i>Ryan Neely III</i> , 5) <i>John Wallbank</i> , 6) <i>Steven Wells</i> 1) National Centre for Atmospheric Science, UK - University of Leeds, UK - , 2) National Centre for Atmospheric Science, UK - University of Leeds, UK - , 3) UK Centre for Ecology & Hydrology, 4) National Centre for Atmospheric Science, UK - University of Leeds, UK - , 5) UK Centre for Ecology & Hydrology, 6) UK Centre for Ecology & Hydrology
	3	14:45	15:00	BLENDING OF RADAR, SATELLITE AND GAUGE RAINFALL DATA FOR HYDROLOGICAL APPLICATION 1) <i>Jayaram Pudashine</i> , 2) <i>Carlos Velasco-Forero</i> , 3) <i>Michael Vale</i> 1) Bureau of Meteorology, Radar Science, 2) Bureau of Meteorology, Radar Science, 3) Bureau of Meteorology, Radar Science
	4	15:00	15:15	THE UPDATED OPENMRG: A UNIQUE OPEN MULTI-SENSOR PRECIPITATION DATA SET 1) <i>Remco C.Z. van de Beek</i> , 2) <i>Louise Petersson-Wårdh</i> , 3) <i>Jonas Olsson</i> , 4) <i>Jafet Andersson</i> 1) Swedish Meteorological and Hydrological Institute, 2) Swedish Meteorological and Hydrological Institute, 3) Swedish Meteorological and Hydrological Institute, 4) Swedish Meteorological and Hydrological Institute
	5	15:15	15:30	IMPROVING THE KNMI QPE PRODUCTS THROUGH THE USE OF SPECIFIC DIFFERENTIAL PHASE 1) <i>Tim Vlemmix</i> , 2) <i>Aart Overeem</i> , 3) <i>Hidde Leijne</i> , 4) <i>Thomas Hengstebeck</i> 1) KNMI, 2) KNMI - TU-Delft - , 3) KNMI, 4) DWD
	6	15:30	15:45	COMPARISON OF KDP ESTIMATION ALGORITHMS IN SUMMER RAINFALL OBSERVATIONS IN FINLAND 1) <i>Miguel Aldana</i> , 2) <i>Seppo Pulkkinen</i> , 3) <i>Annakaisa von Lerber</i> , 4) <i>Matthew Kumjian</i> , 5) <i>Dmitri Moissev</i> 1) Finnish Meteorological Institute - University of Helsinki - , 2) Finnish Meteorological Institute, 3) Finnish Meteorological Institute, 4) The Pennsylvania State University, 5) University of Helsinki
Session	6	Aula Archeologia		Space borne clouds and precipitation radar
	1	16:45	17:00	AIRCRAFT OBSERVATIONS OF STRATOCUMULUS CLOUDS USING A W-BAND RADAR-RADIOMETER: PRELIMINARY RESULTS FOR THE WIVERN MISSION 1) <i>Cuong Nguyen</i> , 2) <i>Philip Gabriel</i> , 3) <i>Natalia Blankinshtein</i> , 4) <i>Alessandro Battaglia</i> , 5) <i>Leonid Nichman</i> , 6) <i>Keyvan Ranjbar</i> , 7) <i>Kenny Bala</i> , 8) <i>Mengistu Wolde</i> , 9) <i>Pavlos Kollias</i> , 10) <i>Anthony Illingworth</i>

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2	17:00	17:15		ASSIMILATION OF DOPPLER FROM SPACE IN WRF MODEL: APPLICATION TO WIVERN RADAR FOR THE MEDICANE IANOS CASE STUDY 1) <i>Stefano Federico</i> , 2) <i>Rosa Claudia Torcasio</i> , 3) <i>Mario Montopoli</i> , 4) <i>Giulia Panegrossi</i> , 5) <i>Alessandro Battaglia</i> , 6) <i>Cinzia Cambiotti</i> 1) CNR-ISAC, via del Fosso del Cavaliere 100, 00133 Rome, 2) CNR-ISAC, via del Fosso del Cavaliere 100, 00133 Rome, 3) CNR-ISAC, via del Fosso del Cavaliere 100, 00133 Rome, 4) CNR-ISAC, via del Fosso del Cavaliere 100, 00133 Rome, 5) DIATI, Politecnico di Torino, Turin, 6) DIATI, Politecnico di Torino, Turin
3	17:15	17:30		ANALYZE GPM PRECIPITATION DATA WITHOUT GETTING SOAKED - HOW GPM-API HELPS YOU STAY DRY AND WISE 1) <i>Gionata Ghiggi</i> , 2) <i>Alexis Berne</i> 1) École polytechnique fédérale de Lausanne, 2) École polytechnique fédérale de Lausanne
4	17:30	17:45		EVALUATION OF ANGLE BIN DEPENDENCY OF PRECIPITATION PRODUCT OF DUAL FREQUENCY PRECIPITATION RADAR (DPR) ONBOARD GLOBAL PRECIPITATION MEASUREMENT (GPM) CORE OBSERVATORY 1) <i>Nobuhiro Takahashi</i> 1) Institute for Space-Earth Environmental Research, Nagoya University
5	17:45	18:00		IMPROVEMENT OF LIQUID PARTICLE SIZE DISTRIBUTION RETRIEVAL FROM DUAL-PRECIPITATION RADAR MEASUREMENT USING A DEEP NEURAL NETWORK 1) <i>Alfonso Ladino</i> , 2) <i>Stephen Nesbitt</i> , 3) <i>Larry Di Girolamo</i> , 4) <i>Robert Rauber</i> , 5) <i>Greg McFarquhar</i> , 6) <i>Jesse Loveridge</i> , 7) <i>Rose Miller</i> , 8) <i>Paul Lawson</i> 1) University of Illinois at Urbana Champaign, 2) University of Illinois at Urbana Champaign, 3) University of Illinois at Urbana Champaign, 4) University of Illinois at Urbana Champaign, 5) Cooperative Institute for Severe and High Impact Weather Research and Operations (CIWRO) - The University of Oklahoma - , 6) University of Illinois at Urbana Champaign, 7) University of Illinois at Urbana Champaign, 8) SPEC Incorporated
6	18:00	18:15		PRECIPITATION PHASE: FIELD OBSERVATIONS IN SOUTHERN NEW ENGLAND 1) <i>Ali Tokay</i> , 2) <i>Charles Helms</i> , 3) <i>Diego Cerrai</i> , 4) <i>David B. Wolff</i> , 5) <i>Brian Filipiak</i> , 6) <i>Adrian Loftus</i> , 7) <i>Alexey Chibisov</i> 1) University of Maryland Baltimore County - NASA Goddard Space Flight Center - , 2) ESSIC - University of Maryland - NASA Goddard Space Flight Center - , 3) University of Connecticut, 4) NASA Wallops Flight Center, 5) University of Connecticut, 6) NASA Goddard Space Flight Center, 7) McCallie Associates, Inc. - NASA Wallops Flight Center -