Day 2			Tuesday, September 10, 2024	
Keynote	Aula Magna	8:45 9:15	**Keynote: POLARIMETRIC RADAR OBSERVATIONS MEET ATMOSPHERIC MODELLING (PROM) - A RESEARCH INITIATIVE IN GERMANY** **Keynote Speaker: SILKE TRÖMEL** *1) Silke Trömel*, 2) and the PROM Team* 1) Institute for Geosciences, Department of Meteorology, University of Bonn, Germany - Laboratory for Clouds and Precipitation Exploration,	*Abstract ID: 172*
Session 1	Aula Magna		**Radar and society I** **Chairs: Jennifer DeHart and Alberto Ortolani**	
1		9:20 9:35	**WILDFIRES OBSERVED BY SURVEILLANCE WEATHER RADARS AT 3, 5 AND 10 CM WAVELENGTHS** *1) Dusan Zrnic*, 2) Djordje Mirkovic, 3) David Schvartrzman, 4) Pegfei Zhang, 5) Valery Melnikov, 6) Emma Miller* 1) DOC NOAA/National Severe Storms Laboratory (NSSL) - Advanced Radar Research Center - Depatrments of Meteorology and Electrical Engineering, University of Oklahoma, Norman OK USA, 2) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma - NOAA/NSSL - , 3) Scool of Meteorology, University of Oklahoma - Advanced Radar Research Cetner - , 4) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma, Norman OK, USA - NOAA/NSSL - , 5) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma, Norman OK, USA - NOAA/NSSL - , 6) Scool of Meteorology, University of Oklahoma	*Abstract ID: 31*
2		9:35 9:50	**ENHANCING WILDFIRE HAZARD INTELLIGENCE FOR EMERGENCY MANAGEMENT THROUGH OPERATIONAL AND PORTABLE WEATHER RADAR OBSERVATIONS** *1) Adrien Guyot*, 2) Hamish McGowan, 3) Joshua Soderholm, 4) Jordan Brook, 5) Kathryn Turner, 6) Nick McCarthy, 7) Alain Protat* 1) The University of Queensland, Australia - Australian Bureau of Meteorology - , 2) The University of Queensland, Australia, 3) Australian Bureau of Meteorology, 4) Australian Bureau of Meteorology, 5) The University of Queensland, Australia, 6) Country Fire Authority, Australia, 7) Australian Bureau of Meteorology	*Abstract ID: 96*
3		9:50 10:05	**USING DUAL POLARISATION WEATHER SURVEILLANCE RADAR TO DETERMINE TEMPORAL AND SPATIAL PATTERNS OF THE FLYING ANT EMERGENCE IN THE UK** *1) Freya Addison*, 2) Ryan Neely III, 3) Elizabeth Duncan, 4) Thomas Dally, 5) Maryna Lukach, 6) Mansi Mungee* 1) University of Leeds - Universität Leipzig - National Environment Research Council, 2) University of Leeds - National Centre for Atmospheric Science - , 3) University of Leeds, 4) University of Leeds, 5) University of Leeds - National Centre for Atmospheric Science - , 6) University of LeedsNational Environment Research Council	*Abstract ID: 292*
4		10:05 10:20	**OBSERVATION AND SIMULATION OF ECHOES FROM FLYING ORGANISMS USING METEOROLOGICAL RADARS** *1) Thibault Désert*, 2) Valery Melnikov, 3) Vincent Delcourt , 4) Baptiste Schmid , 5) Ludovic Bouilloud, 6) Camille Assali, 7) Cecile Bon, 8) Amédée Roy* 1) Météo-France, 2) University of Oklahoma, 3) Biotope, 4) Swiss Ornithological Institute, 5) Météo-France, 6) Biotope, 7) France Energies Marines, 8) France Energies Marines	*Abstract ID: 58*
5		10:20 10:35	**MONITORING FLYING INSECTS WITH DOPPLER CLOUD RADAR** *1) Moritz Lochmann*, 2) Heike Kalesse-Los, 3) Teresa Vogl, 4) Willi Schimmel, 5) Roel van Klink, 6) Christian Wirth* 1) Leipzig Institute for Meteorology, University Leipzig, 2) Leipzig Institute for Meteorology, University Leipzig, 3) Leipzig Institute for Meteorology, University Leipzig, 4) Leibniz Institute for Tropospheric Research Leipzig, 5) Leibniz Institute for Tropospheric Research Leipzig - German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig - , 6) Systematic Botany and Functional Biodiversity / Botanical Garden, Institute of Biology, University Leipzig - German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig -	*Abstract ID: 106*
6		10:35 10:50	**YOUR NOISE, OUR DATA: CURRENT AND FUTURE OPPORTUNITIES OF WEATHER RADAR FOR AEROECOLOGY** *1) Bart Kranstauber*, 2) Bart Hoekstra, 3) Silke Bauer, 4) Adriaan M Dokter, 5) Peter Desmet, 6) Hans van Gasteren, 7) Birgen Haest, 8) Hidde Leijnse, 9) Cecilia Nilsson, 10) Baptiste Schmid, 11) Nadja Weisshaupt, 12) Judy Z Shamoun-Baranes* 1) Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, The Netherlands, 2) Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, The Netherlands, 3) Federal Research Institute for Forest, Snow and Landscape (WSL), Birmensdorf, Switzerland, 4) Cornell Lab of Ornithology, Cornell University, Ithaca, NY, 5) Research Institute for Nature and Forest (INBO), Brussels, Belgium, 6) Royal Netherlands Air Force, Breda, the Netherlands, 7) Swiss Ornithological Institute, Sempach, Switzerland, 8) R&D Observations and Data Technology, Royal Netherlands Meteorological Institute (KNMI), De Bilt, The Netherlands, 9) Lund University, Lund, Sweden, 10) Swiss Ornithological Institute, Sempach, Switzerland, 11) Finnish Meteorological Institute, Helsinki, Finland, 12) Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, The Netherlands	*Abstract ID: 216*
Session 2	Aula Archeologia		**Weather radar technologies I** **Chairs: Michael Frech and John Hubbert**	
1		9:20 9:35	**PHASED ARRAY OR PARABOLA?** *1) Tomoo Ushio*, 2) Yuuki Wada, 3) Hiroshi Kikuchi, 4) Eiichi Yoshikawa* 1) Osaka University, 2) Osaka University, 3) The University of Electro-Communications, 4) Colorado State University - JAXA -	*Abstract ID: 44*
2		9:35 9:50	**NOVEL POLARIMETRIC WEATHER OBSERVATIONS ENABLED BY THE FULLY DIGITAL HORUS PHASED ARRAY RADAR** *1) David Schvartzman*, 2) Robert Palmer* 1) University of Oklahoma - Advanced Radar Research Center and School of Meteorology - , 2) University of Oklahoma - Advanced Radar Research Center and School of Meteorology -	*Abstract ID: 17*

3	9:50	10:05	**THE POTENTIAL OF THE POLARIMETRIC ATMOSPHERIC IMAGING RADAR (PAIR) FOR UNPRECEDENTED INSIGHTS ABOUT STORM EVOLUTION** *1) Tian-You Yu*, 2) David Schvartzman, 3) Jorge Salazar Cerreno, 4) Caleb Fulton, 5) Robert Palmer, 6) Mark Yeary, 7) Howard Bluestein* 1) Advanced Radar Research Center, University of Oklahoma - School of Electrical and Computer Engineering, University of Oklahoma - School of Meteorology, University of Oklahoma, 2) Advanced Radar Research Center, University of Oklahoma - School of Meteorology, University of Oklahoma - School of Electrical and Computer Engineering, University of Oklahoma, 3) Advanced Radar Research Center, University of Oklahoma - School of Electrical and Computer Engineering, University of Oklahoma - , 4) Advanced Radar Research Center, University of Oklahoma - School of Electrical and Computer Engineering, University of Oklahoma - , 5) Advanced Radar Research Center, University of Oklahoma - School of Meteorology, University of Oklahoma - , 6) Advanced Radar Research Center, University of Oklahoma - School of Electrical and Computer Engineering, University of Oklahoma - , 7) School of Meteorology, University of Oklahoma	*Abstract ID: 192*
4	10:05	10:20	**DUAL-POLARIZATION ANALYSIS CONCEPTS FOR APAR SIMULATION OF AIRBORNE PHASED ARRAY RADAR (APAR) ARCHITECTURE** *1) Eiichi Yoshikawa, 2) V. Chandrasekar** 1) Colorado State University, 2) Colorado State University	*Abstract ID: 377*
5	10:20	10:35	**THE NATIONAL SEVERE STORMS LABORATORY (NSSL) PHASED ARRAY WEATHER RADAR RESEARCH AND DEVELOPMENT PROGRAM: SUCCESSES AND OPPORTUNITIES** *1) Rafael Mendoza*, 2) Anthony Reinhart, 3) Daniel Wasielewski, 4) Sebastian Torres, 5) Addison Alford, 6) Terry Schuur, 7) Larry Hopper* 1) NOAA/OAR/NSSL, 2) NOAA/OAR/NSSL, 3) NOAA/OAR/NSSL, 4) OU/CIWRO - NOAA/OAR/NSSL - , 5) NOAA/OAR/NSSL, 6) OU/CIWRO - NOAA/OAR/NSSL - , 7) NOAA/OAR/NSSL	*Abstract ID: 370* -
6	10:35	10:50	**CRMN - RADAR IMAGE SUPER RESOLUTION USING A CONVOLUTIONAL RECURRENT MIXER NETWORK** *1) Daniel Felipe da Silva Santos, 2) Rafael Gonçalves Pires, 3) Jaqueline Murakami Kokitsu, 4) João Paulo Papa, 5) Roberto Vicente Calheiros** 1) Computing Department, Faculty of Science, Unesp, 2) Computing Department, Faculty of Science, Unesp, 3) IT Technical Directorate, Faculty of Science, Unesp, 4) Computing Department, Faculty of Science, Unesp, 5) Meteorological Research Institute/Unesp, retired since 2011	*Abstract ID: 204*

Session 3 — Aula Magna

Radar hydrometeorological applications IV Data Assimilation

Chairs: Silke Troemel and Alexis Berne

1	14:15	14:30	**CURRENT STATUS OF SINFONY – THE COMBINATION OF NOWCASTING AND NUMERICAL WEATHER PREDICTION FOR FORECASTING CONVECTIVE EVENTS AT DWD** *1) Ulrich Blahak*, 2) Team SINFONY* 1) Deutscher Wetterdienst, 2) Deutscher Wetterdienst	*Abstract ID: 183*
2	14:30	14:45	**ASSIMILATION OF RADAR DATA IN ICON AT VERY HIGH RESOLUTION - THE GLORI PROJECT** *1) Virginia Poli*, 2) Xu Xu, 3) Claire Merker, 4) Klaus Stephan, 5) Thomas Gastaldo, 6) Arianna Valmassoi, 7) Alina Yapparova, 8) Pier Paolo Alberoni, 9) Chiara Marsigli* 1) Arpae Emilia-Romagna, Italy - ItaliaMeteo Agency, Italy - , 2) Deutscher Wetterdienst, Germany, 3) MeteoSwiss, Switzerland, 4) Deutscher Wetterdienst, Germany, 5) Arpae Emilia-Romagna, Italy - ItaliaMeteo Agency, Italy - , 6) Deutscher Wetterdienst, Germany, 7) MeteoSwiss, Switzerland, 8) Arpae Emilia-Romagna, Italy, 9) Deutscher Wetterdienst, Germany - Arpae Emilia-Romagna, Italy - ItaliaMeteo Agency, Italy	*Abstract ID: 324*
3	14:45	15:00	**IMPACT OF ASSIMILATING RADAR REFRACTIVITY WITH RADIAL WIND AND REFLECTIVITY IN THE CONTEXT OF ENSEMBLE KALMAN FILTER** *1) Kao-Shen Chung*, 2) Nghi Phuong Do, 3) Pay-Liam Lin, 4) Bo-An Tsai, 5) Ya-Chien Feng* 1) National Central University, 2) Scripps Institution of Oceanography University of California, 3) National Central University, 4) National Central University, 5) Pacific Northwest National Laboratory	*Abstract ID: 72*
4	15:00	15:15	**THE AROME-MESONH RADAR DUAL-POLARIZATION FORWARD OPERATOR: RECENT PROGRESS AND OUTLOOK** *1) Clotilde Augros*, 2) Cloé David* 1) CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France, 2) CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France	*Abstract ID: 207*
5	15:15	15:30	**ASSIMILATION OF RADAR REFLECTIVITIES AND WINDS FROM OPERA NIMBUS IN HARMONIE-AROME** *1) Günther Haase*, 2) Jana Sánchez Arriola, 3) Martin Ridal, 4) Mats Dahlbom, 5) Magnus Lindskog* 1) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden, 2) Agencia Estatal de Meteorologia, Santander, Spain, 3) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden, 4) Danish Meteorological Institute, Copenhagen, Denmark, 5) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden	*Abstract ID: 221*
6	15:30	15:45	**ASSIMILATING 3D RADAR REFLECTIVITY OBSERVATIONS IN COMPLEX TOPOGRAPHY** *1) Alina Yapparova*, 2) Claire Merker, 3) Daniel Leuenberger, 4) Marco Boscacci, 5) Urs Germann, 6) David Leutwyler* 1) MeteoSwiss, 2) MeteoSwiss, 3) MeteoSwiss, 4) MeteoSwiss, 5) MeteoSwiss, 6) MeteoSwiss	*Abstract ID: 140*
7	15:45	16:00	**COMBIPRECIP ENSEMBLE: GENERATION OF MULTI-MEMBER REALIZATIONS FROM A KRIGING-BASED RADAR-RAINGAUGE COMBINATION APPLICATION IN SWITZERLAND** *1) Athanasios Ntoumos*, 2) Ioannis Sideris, 3) Marco Gabella, 4) Alexis Berne, 5) Urs Germann* 1) Environmental Remote Sensing Laboratory, EPFL, Lausanne, Switzerland - MeteoSwiss, Locarno, Switzerland - , 2) MeteoSwiss, Locarno, Switzerland, 3) MeteoSwiss, Locarno, Switzerland, 4) Environmental Remote Sensing Laboratory, EPFL, Lausanne, Switzerland, 5) MeteoSwiss, Locarno, Switzerland	*Abstract ID: 167*
8	16:00	16:15	**THE MEAN DIAMETER UPDATE APPROACH FOR ENSEMBLE-BASED DUAL-POLARIMETRIC RADAR DATA ASSIMILATION** *1) Kao-Shen Chung*, 2) Bing-Xue Zhuang, 3) Wei-Yu Chang, 4) Chih-Chien Tsai* 1) National Central University , 2) National Central University , 3) National Central University , 4) National Science and Technology Center for Disaster Reduction	*Abstract ID: 163*

Session 4		Aula Archeologia		Weather radar technologies II Chairs: David Schvartzman and Tomoo Ushio	
	1	14:15	14:30	**CLOUDCUBE: ADVANCING ATMOSPHERIC PROFILING WITH MULTIFREQUENCY MM-WAVE RADAR** *1) Raquel Rodriguez Monje, 2) Ken Cooper, 3) Matthew Lebsock, 4) Juan Socuellamos, 5) Robert Beauchamp, 6) Simone Tanelli** 1) Jet Propulsion Laboratory, California Institute of Technology, 2) Jet Propulsion Laboratory, California Institute of Technology, 3) Jet Propulsion Laboratory, California Institute of Technology, 4) Jet Propulsion Laboratory, California Institute of Technology, 5) Jet Propulsion Laboratory, California Institute of Technology, 6) Jet Propulsion Laboratory, California Institute of Technology	*Abstract ID: 90*
	2	14:30	14:45	**DIFFERENTIAL ABSORPTION G-BAND RADAR FOR ARCTIC CLOUDS AND WATER VAPOR OBSERVATIONS** *1) Mario Mech*, 2) Sabrina Schnitt, 3) Jens Goliasch, 4) Thomas Rose, 5) Linnea Bühler, 6) Susanne Crewell* 1) University of Cologne, 2) University of Cologne, 3) Radiometer Physics GmbH, 4) Radiometer Physics GmbH, 5) University of Cologne, 6) University of Cologne	*Abstract ID: 327*
	3	14:45	15:00	**POSTPROCESSING METHODS TO CHARACTERIZE MULTIMODAL PRECIPITATION IN DOPPLER SPECTRA FROM DWD'S C-BAND RADAR BIRDBATH SCAN** *1) Mathias Gergely*, 2) Paul Ockenfuß, 3) Maximilian Schaper, 4) Stefan Kneifel, 5) Michael Frech* 1) German Meteorological Service (Deutscher Wetterdienst, DWD), Observatorium Hohenpeißenberg, 2) Meteorological Institute, Ludwig-Maximilians University, Munich, 3) German Meteorological Service (Deutscher Wetterdienst, DWD), Observatorium Hohenpeißenberg, 4) Meteorological Institute, Ludwig-Maximilians University, Munich, 5) German Meteorological Service (Deutscher Wetterdienst, DWD), Observatorium Hohenpeißenberg	*Abstract ID: 57*
	4	15:00	15:15	**APPLICATION OF THE REGRESSION FILTER TO SZ PHASE CODING FOR UNAMBIGUOUS VELOCITY EXTENSION** *1) John Hubbert*, 2) Ulrike Romatschke, 3) Scott Ellis* 1) NCAR, 2) NCAR, 3) NCAR	*Abstract ID: 151*
	5	15:15	15:30	**A PHYSICS-INFORMED MACHINE-LEARNING ALGORITHM TO RECOVER CORRUPTED OR BLANKED DATA IN WEATHER RADAR VELOCITY MEASUREMENTS** *1) Christian Schiefer*, 2) Sebastian Kauczok, 3) Albert Töws, 4) Andre Weipert, 5) Frank Gekat* 1) Leonardo Germany GmbH, 2) Leonardo Germany GmbH, 3) Leonardo Germany GmbH, 4) Leonardo Germany GmbH, 5) Leonardo Germany GmbH	*Abstract ID: 127*
	6	15:30	15:45	**VERIFICATION OF THE CROSS-POLARIZATION CHARACTERISTICS OF POLARIMETRIC WEATHER RADAR ANTENNAS USING THE SUN AS A SOURCE** *1) Roberto Costantini* 1) INVAP S.E.	*Abstract ID: 376*
	7	15:45	16:00	**SOLID-STATE OR MAGNETRON? A FIRST LOOK AT DATA FROM THE DUAL TRANSMITTER RADAR AT DWD** *1) Maximilian Schaper*, 2) Michael Frech, 3) Cornelius Hald, 4) Benjamin Rohrdantz, 5) Bertram Lange* 1) German Meteorological Service (DWD), 2) German Meteorological Service (DWD), 3) German Meteorological Service (DWD), 4) German Meteorological Service (DWD), 5) German Meteorological Service (DWD)	*Abstract ID: 153* -
	8	16:00	16:15	**DETECTION OF WIND TURBINE CONTAMINATION USING SPECTRAL DUAL POLARISATION AND A CONVOLUTION NEURAL NETWORK** *1) Nawal Husnoo*, 2) Timothy Darlington, 3) Sebastiàn Torres, 4) David Warde* 1) Met Office, 2) Met Office, 3) Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO), The University of Oklahoma - NOAA/OAR National Severe Storms Laboratory - , 4) Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO), The University of Oklahoma - NOAA/OAR National Severe Storms Laboratory -	*Abstract ID: 52*
Session 5		Aula Magna		Clouds and precipitation physics IV Microphysics Chairs: Djordje Mirkovic and Miria Celano	
	1	16:45	17:00	**DOUBLE MOMENT NORMALIZATION OF HAIL SIZE NUMBER DISTRIBUTIONS OVER SWITZERLAND** *1) Alfonso Ferrone, 2) Jérôme Kopp, 3) Martin Lainer, 4) Marco Gabella, 5) Urs Germann, 6) Alexis Berne** 1) Environmental Remote Sensing Laboratory, EPFL, Lausanne, Switzerland - Federal Office of Meteorology and Climatology MeteoSwiss, Locarno-Monti, Switzerland - Hydro-Meteo-Climate Structure, Regional Agency for Prevention, Environment and Energy of Emilia-Romagna, Bologna, Italy, 2) Oeschger Centre for Climate Change Research and Institute of Geography, University of Bern, Bern, Switzerland, 3) Federal Office of Meteorology and Climatology MeteoSwiss, Locarno-Monti, Switzerland, 4) Federal Office of Meteorology and Climatology MeteoSwiss, Locarno-Monti, Switzerland, 5) Federal Office of Meteorology and Climatology MeteoSwiss, Locarno-Monti, Switzerland, 6) Environmental Remote Sensing Laboratory, EPFL, Lausanne, Switzerland	*Abstract ID: 219*
	2	17:00	17:15	**RADAR-FOCUSED HAIL RESEARCH AT NSSL: IMPROVING THE DETECTION AND QUANTIFICATION OF HAIL** *1) Jeffrey Snyder*, 2) Arthur Witt, 3) Alexander Ryzhkov, 4) Valery Melnikov, 5) Sean Waugh, 6) Kiel Ortega* 1) NOAA/OAR National Severe Storms Laboratory, 2) NOAA/OAR National Severe Storms Laboratory, 3) NOAA/OAR National Severe Storms Laboratory - Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma - , 4) NOAA/OAR National Severe Storms Laboratory - Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma - , 5) NOAA/OAR National Severe Storms Laboratory, 6) NOAA/OAR National Severe Storms Laboratory - Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma -	*Abstract ID: 361*
	3	17:15	17:30	**A POLARIMETRIC RADAR ANALYSIS OF PRE-MONSOON DEEP CONVECTIVE SYSTEMS AND A HAIL-PRODUCING EVENT OBSERVED IN THE MONSOON CORE ZONE** *1) Kumar Abhijeet*, 2) Sachin M. Deshpande, 3) Govindan Pandithurai* 1) Atmospheric Research Testbed Central India, Silkheda - Indian Institute of Tropical meteorology, Pune - , 2) Indian Institute of Tropical meteorology, Pune, 3) Indian Institute of Tropical meteorology, Pune	*Abstract ID: 150*

4	17:30	17:45	**FRAGMENTATION OF GRAUPEL AND SNOWFLAKES DUE TO COLLISION** *1) Miklós Szakáll* 2) Sudha Yadav, 3) Stefan Kneifel, 4) Leonie von Terzi, 5) Axel Seifer, 6) Christoph Siewert* Johannes Gutenberg University of Mainz, Germany, 3) Meteorological Institute, LMU Munich, Germany, 4) Meteorological Institute, LMU Munich, Germany, 5) German Weather Service, 6) German Weather Service	*Abstract ID: 88*
5	17:45	18:00	**HOW IMPORTANT IS TURBULENCE FOR THE FORMATION OF SNOW AGGREGATION AND RIMING IN ARCTIC CLOUDS?** *1) Stefan Kneifel*, 2) Giovanni Chellini* 1) Ludwig-Maximilians University Munich (LMU), 2) University of Cologne	*Abstract ID: 319*
6	18:00	18:15	**GROUND-BASED PRECIPITATION RADAR SIGNATURES OF ANTHROPOGENIC SNOWFALL EVENTS** *1) Jorma Rahu*, 2) Tanel Voormansik, 3) Daniel Michelson, 4) Emma Hung, 5) Norman Donaldson, 6) Hannes Keernik, 7) Heido Trofimov, 8) Piia Post, 9) Velle Toll* 1) University of Tartu - Estonian Environment Agency - , 2) University of Tartu - Estonian Environment Agency - , 3) Environment and Climate Change Canada, 4) Environment and Climate Change Canada, 5) Environment and Climate Change Canada, 6) University of Tartu, 7) University of Tartu, 8) University of Tartu, 9) University of Tartu	*Abstract ID: 47* **Award candidate**
7	18:15	18:30	**NEAR-SURFACE TORNADO THERMODYNAMICS FROM RADAR AND IN SITU OBSERVATIONS** *1) Karen Kosiba*, 2) Josh Wurman* 1) Flexible Array of Radars and Mesonets (FARM) - University of Illinois - , 2) Flexible Array of Radars and Mesonets (FARM) - University of Illinois -	*Abstract ID: 271*
8	18:30	18:45	**CONVERGING THE ICON 2-MOMENT MICROPHYSICS TO OBSERVATIONS: EVALUATION WITH POLARIMETRIC MICROPHYSICAL RETRIEVALS** *1) Julian Steinheuer*, 2) Velibor Pejcic, 3) Jana Mendrok, 4) Ulrich Blahak, 5) Alberto de Lozar, 6) Silke Trömel* 1) Deutscher Wetterdienst, Offenbach, Germany, 2) Institute of Geosciences, Meteorology Section, University of Bonn, 3) Deutscher Wetterdienst, Offenbach, Germany, 4) Deutscher Wetterdienst, Offenbach, Germany, 5) Deutscher Wetterdienst, Offenbach, Germany, 6) Institute of Geosciences, Meteorology Section, University of Bonn	*Abstract ID: 178*

Session 6 — Aula Archeologia

Operational aspects I

Chairs: Qian Li and Valentina Campana

1	16:45	17:00	**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 Coltelli, 26) Giuseppe Giammello, 27) Giacomo Cavalli, 28) Roberto Pinna Nossai* 1) National Research Council, Institute of Atmospheric Science and Climate (CNR-ISAC), Rome, Italy; , 2) Department of Physics and Astronomy "Augusto Righi", University of Bologna, Bologna, Italy;, 3) National Research Council, Institute of Atmospheric Science and Climate (CNR-ISAC), Rome, Italy; - Center of Excellence for Telesensing of Environment and Model Prediction of Severe events, University of L'Aquila, L'Aquila, Italy; - , 4) National Research Council, Institute of Atmospheric Science and Climate (CNR-ISAC), Rome, Italy; , 5) National Research Council, Institute of Atmospheric Science and Climate (CNR-ISAC), Bologna, Italy; , 6) National Research Council, Institute of Atmospheric Science and Climate (CNR-ISAC), Rome, Italy; , 7) Department of Science and Technology, University of Naples "Parthenope", Naples, Italy;, 8) Center of Excellence for Telesensing of Environment and Model Prediction of Severe events, University of L'Aquila, L'Aquila, Italy; - Department of Science and Technology, University of Naples "Parthenope", Naples, Italy; - , 9) Department of Science and Technology, University of Naples "Parthenope", Naples, Italy;, 10) Meteorology Lab, Centro Italiano Ricerche Aerospaziali (CIRA), Capua, Italy;, 11) Meteorology Lab, Centro Italiano Ricerche Aerospaziali (CIRA), Capua, Italy;, 12) Regional Agency for the Protection of the Environment of Lombardy (ARPA Lombardia), Milan, Italy;, 13) Regional Agency for the Protection of the Environment of Lombardy (ARPA Lombardia), Milan, Italy;, 14) Regional Agency for the Protection of the Environment of Lombardy (ARPA Lombardia), Milan, Italy;, 15) Regional Agency for the Protection of the Environment of Piemonte (ARPA Piemonte), Turin, Italy;, 16) Regional Agency for the Protection of the Environment of Piemonte (ARPA Piemonte), Turin, Italy;, 17) Laboratory of Environmental Monitoring and Modelling for the sustainable development (LaMMA), Sesto Fiorentino (Florence), Italy, 18) Laboratory of Environmental Monitoring and Modelling for the sustainable development (LaMMA), Sesto Fiorentino (Florence), Italy - National Research Council of Italy, Institute for the BioEconomy (CNR-IBE), Sesto Fiorentino (Florence), Italy - , 19) Laboratory of Environmental Monitoring and Modelling for the sustainable development (LaMMA), Sesto Fiorentino (Florence), Italy - National Research Council of Italy, Institute for the BioEconomy (CNR-IBE), Sesto Fiorentino (Florence), Italy - , 20) Politecnico di Milano, Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB), Milan, Italy, 21) National Research Council , Institute of Electronics, Computer and Telecommunication Engineering (CNR-IEIIT), Milan, Italy, 22) University of Ll'Aquila, Physical and Chemical Sciences (DSFC), L'Aquila, Italy, 23) Società Astronomica Schiaparelli, Centro Geofisico Prealpino, Varese, Italy, 24) Società Astronomica Schiaparelli, Centro Geofisico Prealpino, Varese, Italy, 25) National Institute of Geophysics and Volcanology (INGV), Osservatorio Etneo, Catania, Italy, 26) National Institute of Geophysics and Volcanology (INGV), Osservatorio Etneo, Catania, Italy, 27) Regional Agency for the Protection of the Environment of Sardegna (Arpa Sardegna), Sassari, Italy;, 28) Regional Agency for the Protection of the Environment of Sardegna (Arpa Sardegna), Sassari, Italy;	*Abstract ID: 309*
2	17:00	17:15	**THREE-DIMENSIONAL VARIATIONAL MULTI-DOPPLER WIND RETRIEVAL OVER COMPLEX TERRAIN** *1) Ting-Yu Cha*, 2) Michael M. Bell* 1) National Center for Atmospheric Research, 2) Colorado State University	*Abstract ID: 10*

3	17:15	17:30	**ADVANCED RADAR CALIBRATION: PULSE COMPRESSION VS. CONVENTIONAL SYSTEMS** *1) Marc Schneebeli*, 2) Philipp Schmid, 3) Andreas Leuenberger, 4) Heather Corden, 5) Jacopo Grazioli, 6) Alexis Berne, 7) David Schvartzman, 8) Boonleng Cheong, 9) Jim George, 10) Francesc Junyent, 11) Patrick Kennedy, 12) V. Chandrasekar* 1) Palindrome Remote Sensing, Landquart, Switzerland, 2) University of Bern, Bern, Switzerland - Meteosvizzera, Locarno, Switzerland - Palindrome Remote Sensing, Landquart, Switzerland, 3) Palindrome Remote Sensing, Landquart, Switzerland, 4) École Polytechnique Fédérale de Lausanne (EPFL), LTE, Lausanne, Switzerland, 5) École Polytechnique Fédérale de Lausanne (EPFL), LTE, Lausanne, Switzerland, 6) École Polytechnique Fédérale de Lausanne (EPFL), LTE, Lausanne, Switzerland, 7) University of Oklahoma, Advanced Radar Research Center, Norman, US, 8) University of Oklahoma, Advanced Radar Research Center, Norman, US, 9) Colorado State University, Fort Collins, US, 10) Colorado State University, Fort Collins, US, 11) Colorado State University, Fort Collins, US, 12) Colorado State University, Fort Collins, US	*Abstract ID: 235*
4	17:30	17:45	**APACHE AIRFLOW BASED RADAR DATA PROCESSING ARCHITECTURE AT THE FINNISH METEOROLOGICAL INSTITUTE** *1) Joonas Karjalainen* 1) Finnish Meteorological Institute	*Abstract ID: 175*
5	17:45	18:00	**IMPACT OF DIFFERENT REFLECTIVITY RADAR-BASED PRODUCTS ON THE PERFORMANCES OF A METEOROLOGICAL FORECASTING MODELING CHAIN** *1) Luca Rovai, 2) Alberto Ortolani*, 3) Samantha Melani, 4) Andrea Antonini, 5) Luca Fibbi, 6) Bernardo Gozzini* 1) National Research Council of Italy, Institute for the BioEconomy (CNR-IBE), Sesto Fiorentino (Florence), Italy - LaMMA Consortium, Sesto Fiorentino (Florence), Italy - , 2) National Research Council of Italy, Institute for the BioEconomy (CNR-IBE), Sesto Fiorentino (Florence), Italy - LaMMA Consortium, Sesto Fiorentino (Florence), Italy - , 3) National Research Council of Italy, Institute for the BioEconomy (CNR-IBE), Sesto Fiorentino (Florence), Italy - LaMMA Consortium, Sesto Fiorentino (Florence), Italy - , 4) LaMMA Consortium, Sesto Fiorentino (Florence), Italy, 5) National Research Council of Italy, Institute for the BioEconomy (CNR-IBE), Sesto Fiorentino (Florence), Italy - LaMMA Consortium, Sesto Fiorentino (Florence), Italy - , 6) LaMMA Consortium, Sesto Fiorentino (Florence), Italy	*Abstract ID: 372*
6	18:00	18:15	**USE OF DUAL-POLE RADAR DATA IN OPERATIONAL NOWCASTING INFORMATION AT DWD** *1) Tim Böhme* 1) Deutscher Wetterdienst, 63067 Offenbach, Germany	*Abstract ID: 222*
7	18:15	18:30	**RADAR-BASED STUDIES OF TERRAIN-INDUCED WINDSHEAR AND MICROBURSTS NEAR THE HONG KONG INTERNATIONAL AIRPORT DURING THE PASSAGE OF SUPER TYPHOON SAOLA IN SEPTEMBER 2023** *1) Ying Wa Chan* 1) Hong Kong Observatory	*Abstract ID: 14*
8	18:30	18:45	**ADVANCES IN PRECIPITATION ESTIMATION USING THE SOPHY WEATHER RADAR** *1) Carlos Del-Castillo Velarde, 2) Ken Takahashi Guevara, 3) Danny E Scipion, 4) Ricardo Reinoso-Rondinel** 1) Instituto Geofísico del Perú, Lima, Peru, 2) Instituto Geofísico del Perú, Lima, Peru, 3) Instituto Geofísico del Perú, Lima, Peru, 4) Civil Engineering, Hydraulics & Geotechnics, KU Leuven, Leuven, Belgium - Royal Meteorological Institute of Belgium, Brussels, Belgium -	*Abstract ID: 69*