

Day 1	Monday, September 9, 2024			
Opening Cerimony				
Aula Magna 8:45 9:35	<p>Welcome speeches</p> <ul style="list-style-type: none"> - Prof. Antonella Polimeni, Rector Sapienza University of Rome (video) - Prof. Marco Schaerf, Dean Faculty of Information Engineering, Informatics and Statistics - Prof. Massimo Panella, Head Department of Information Engineering, Electronics and Telecommunications, Sapienza University of Rome - Prof. Francesco Napolitano, Head of Department of Civil, Building and Environmental Engineering and Vice Rector Sapienza University of Rome - Dr. Stefania Argentini on behalf of Maria Cristina Facchini, director of the Institute of Atmospheric Sciences of National Research Council of Italy - Dr. Giulio Fancello, Head of National Center for Hydrometeorological Forecasting and Risk Assessment, Department of Civil Protection of the Presidency of the Council of Ministers of Italy, Rome <p>ERAD 2024 Housekeeping rules</p> <ul style="list-style-type: none"> - Elisa Adirosi, Alessandro Bracci 			
Keynote	9:35 10:05	<p>Keynote: WMO GUIDE TO OPERATIONAL WEATHER RADAR BEST PRACTICES – FIRST EDITION</p> <p>Keynote Speaker: DANIEL MICHELSON</p> <p>1) Daniel Michelson*, 2) Mark Curtis, 3) Tom Kane, 4) Hiroshi Yamauchi, 5) Thomas Einfalt, 6) Martin Hagen, 7) Michael Istok, 8) Richard Lorandel, 9) Donald Rinderknecht, 10) Benjamin Rohrdantz, 11) Pekka Rossi, 12) Annakaisa von Lerber</p> <p>1) Environment and Climate Change Canada, 2) Bureau of Meteorology, 3) Bureau of Meteorology, 4) Japan Meteorological Agency, 5) hydro & meteo GmbH, 6) German Aerospace Center, 7) National Oceanographic and Atmospheric Administration, 8) Meteo France, 9) National Oceanographic and Atmospheric Administration, 10) German Weather Service, 11) World Meteorological Organization, 12) Finnish Meteorological Institute</p>	Abstract ID: 228	
Session 1	Aula Magna	<p>Radar hydrometeorological applications I Nowcasting</p> <p>Chair: Urs Germann</p>		
	1	10:05 10:20	<p>USING RADAR PRECIPITATION FOR IMPACT-BASED SITE-SPECIFIC EARLY WARNINGS</p> <p>1) Daniel Sempere-Torres*, 2) Erika Meléndez-Landaverde, 3) Marc Berenguer</p> <p>1) Centre of Applied Research in Hydrometeorology - Universitat Politècnica de Catalunya -, 2) Centre of Applied Research in Hydrometeorology - Universitat Politècnica de Catalunya -, 3) Centre of Applied Research in Hydrometeorology - Universitat Politècnica de Catalunya -</p>	Abstract ID: 344 -
	2	10:20 10:35	<p>NOWCASTING EXTREME PRECIPITATION EVENTS: EVALUATING THE EFFECTIVENESS OF GENERATIVE DEEP LEARNING APPROACHES</p> <p>1) Gabriele Franch*, 2) Elena Tomasi, 3) Rishabh Wanjari, 4) Marco Cristoforetti</p> <p>1) Fondazione Bruno Kessler, 2) Fondazione Bruno Kessler, 3) Fondazione Bruno Kessler, 4) Fondazione Bruno Kessler</p>	Abstract ID: 380 -
	3	10:35 10:50	<p>CELL TRACKING -BASED FRAMEWORK FOR ESTIMATION OF NOWCASTING MODEL SKILL FOR REPRODUCING GROWTH AND DECAY OF CONVECTIVE RAINFALL</p> <p>1) Jenna Ritvanen*, 2) Seppo Pulkkinen, 3) Dmitri Moisseev, 4) Daniele Nerini</p> <p>1) Finnish Meteorological Institute, Helsinki, Finland - Institute for Atmospheric and Earth System Research, Faculty of Science, University of Helsinki, Helsinki, Finland -, 2) Finnish Meteorological Institute, Helsinki, Finland, 3) Institute for Atmospheric and Earth System Research, Faculty of Science, University of Helsinki, Helsinki, Finland - Finnish Meteorological Institute, Helsinki, Finland -, 4) Federal Office of Meteorology and Climatology MeteoSwiss, Locarno-Monti, Switzerland</p>	Abstract ID: 25 Award candidate
Keynote	11:20 11:50	<p>Keynote: RAINFALL PROCESSES AND ESTIMATION IN COMPLEX TERRAIN: APPLICATION TO THE SAN FRANCISCO BAY AREA</p> <p>Keynote Speaker: V. CHANDRASEKAR</p> <p>1) V. Chandrasekar, 2) Renzo Bechini, 3) Sounak Biswas, 4) Rob Cifelli</p> <p>1) Colorado State University, 2) Arpa Piemonte - Colorado State University -, 3) Colorado State University, 4) NOAA</p>	Abstract ID: 262	
Session 2	Aula Magna	<p>Clouds and precipitation physics I Extremes</p> <p>Chairs: Aurora Bell and Renzo Bechini</p>		
	1	11:50 12:05	<p>ON THE ESTIMATION OF CONVECTIVE UPDRAFT VELOCITIES USING GOES IR COOLING RATES AND MULTI-DOPPLER RADAR TECHNIQUES: LESSONS LEARNT FROM THE ESCAPE AND TRACER FIELD CAMPAIGNS</p> <p>1) Aida Galfione*, 2) Alessandro Battaglia, 3) Pavlos Kollias, 4) Mariko Oue</p> <p>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) Stony Brook University, Stony Brook NY, USA, 4) Stony Brook University, Stony Brook NY, USA</p>	Abstract ID: 133 -
	2	12:05 12:20	<p>ARE "IMMENSE" SUPERCCELL UPDRAFT CORES A SUFFICIENT CONDITION FOR TORNADOGENESIS?</p> <p>1) Michael French*, 2) Darrel Kingfield</p> <p>1) Stony Brook University, 2) NOAA/Global Systems Laboratory</p>	Abstract ID: 353 -
	3	12:20 12:35	<p>ELECTRICAL ALIGNMENT SIGNATURES OBSERVED IN AN ISOLATED THUNDERSTORM BY MULTI-PARAMETER DUAL-POLARIZED PHASED ARRAY WEATHER RADAR(MP-PAWR)</p> <p>1) Shuo Wang*, 2) Yuuki Wada, 3) Syugo Hayashi, 4) Tomoo Ushio, 5) Venkatachalam Chandrasekar</p> <p>1) Osaka university, 2) Osaka university, 3) Japan Meteorological Agency, 4) Osaka university, 5) Colorado State University</p>	Abstract ID: 288 -

5	12:50	13:05	OBSERVATION OF FLOW STRUCTURE IN A THUNDERSTORM BY SHIP RADAR 1) <i>Koji Sassa*</i> , 2) <i>Akane Higashikawa</i> 1) Kochi University, 2) Kochi University	Abstract ID: 310 -

Session 3		Aula Magna	Radar hydrometeorological applications II Nowcasting Chairs: Clotilde Augros and Ulrich Blahack	
1	14:15	14:30	ASSESSMENT OF HYDROLOGICAL PERFORMANCE FOR TWO SHORT-TERM RAINFALL FORECASTING APPROACHES AIMED AT FLOOD PREDICTION 1) <i>Maria Laura Poletti*</i> , 2) <i>Martina Lagasio</i> , 3) <i>Francesco Silvestro</i> , 4) <i>Antonio Parodi</i> , 5) <i>Massimo Milelli</i> , 6) <i>Lorenzo Campo</i> , 7) <i>Marco Falzacappa</i> , 8) <i>Stefano Federico</i> 1) CIMA Research Foundation, 2) CIMA Research Foundation, 3) CIMA Research Foundation, 4) CIMA Research Foundation, 5) CIMA Research Foundation, 6) CIMA Research Foundation, 7) Department of Civil Protection of Italy Presidency of the Council of Ministers, 8) CNR-Institute of Atmospheric Sciences and Climate	Abstract ID: 16 -
2	14:30	14:45	NOWPRECIP VERSION 2: NEW TECHNIQUES FOR AREAL PRECIPITATION NOWCASTING IN THE COMPLEX TERRAIN OF SWITZERLAND 1) <i>Ioannis Sideris*</i> , 2) <i>Athanasios Ntoumos</i> , 3) <i>Marco Boscacci</i> , 4) <i>Lorenzo Clementi</i> , 5) <i>Urs Germann</i> 1) MeteoSwiss, 2) MeteoSwiss - Environmental Remote Sensing Laboratory, EPFL, Lausanne, Switzerland - , 3) MeteoSwiss, 4) MeteoSwiss, 5) MeteoSwiss	Abstract ID: 196 -
3	14:45	15:00	UTILIZATION OF VERTICAL PROFILE FEATURES FOR PRECIPITATION NOWCASTING 1) <i>Seppo Pulkkinen*</i> , 2) <i>V. Chandrasekar</i> 1) Finnish Meteorological Institute, 2) Colorado State University	Abstract ID: 112 -
4	15:00	15:15	COMBINING TITAN AND LSTM SCHEMES TO DEVELOP A NEW RADAR NOWCASTING TOOL TO PREDICT FLASH FLOODS 1) <i>Andrea Viteri*</i> , 2) <i>Carlos Morales</i> 1) University of Sao Paulo, 2) University of Sao Paulo	Abstract ID: 181 -
5	15:15	15:30	HYDROLOGICAL MODELING OF PROBABILISTIC RAINFALL FORECASTS FOR IMPACT-BASED FLOOD WARNING SYSTEM 1) <i>Daniel Eduardo Villarreal-Jaime*</i> , 2) <i>Patrick Willems</i> , 3) <i>Lesley De Cruz</i> , 4) <i>Ricardo Reinoso-Rondinel</i> 1) Hydraulic and Geotechnics Unit, KU Leuven, Belgium - Royal Meteorological Institute of Belgium, Belgium - , 2) Hydraulic and Geotechnics Unit, KU Leuven, Belgium, 3) Royal Meteorological Institute of Belgium, Belgium - Electronics and Informatics Department, Vrije Universiteit Brussel, Belgium - , 4) Hydraulic and Geotechnics Unit, KU Leuven, Belgium - Royal Meteorological Institute of Belgium, Belgium -	Abstract ID: 9 -
6	15:30	15:45	UNLEASHING THE POTENTIAL OF CONVOLUTIONAL AND RECURRENT NEURAL NETWORKS AS A POWERFUL TOOL FOR RADAR ECHOES EXTRAPOLATION 1) <i>Avijit Majhi*</i> , 2) <i>Stefano Farris</i> , 3) <i>Alessandro Seoni</i> , 4) <i>Muhammad Shafeeq Ul Rehman Khan</i> , 5) <i>Maria Grazia Badas</i> , 6) <i>Marino Marrocu</i> , 7) <i>Francesco Viola</i> , 8) <i>Roberto Deidda</i> 1) Università degli Studi di Cagliari, Department of Civil- Environmental Engineering and Architecture, Cagliari, Italy, 2) Università degli Studi di Cagliari, Department of Civil- Environmental Engineering and Architecture, Cagliari, Italy, 3) Università degli Studi di Cagliari, Department of Civil- Environmental Engineering and Architecture, Cagliari, Italy, 4) Università degli Studi di Cagliari, Department of Civil- Environmental Engineering and Architecture, Cagliari, Italy, 5) Università degli Studi di Cagliari, Department of Civil- Environmental Engineering and Architecture, Cagliari, Italy, 6) CRS4, Center for Advanced Studies, Research and Development in Sardinia, Pula, Italy, 7) Università degli Studi di Cagliari, Department of Civil- Environmental Engineering and Architecture, Cagliari, Italy, 8) Università degli Studi di Cagliari, Department of Civil- Environmental Engineering and Architecture, Cagliari, Italy	Abstract ID: 214 Award candidate
7	15:45	16:00	LEVERAGING DEEP LEARNING FOR SEAMLESS RAINFALL AND FLOOD PREDICTION IN BELGIUM 1) <i>Simon De Kock*</i> , 2) <i>Lesley De Cruz</i> , 3) <i>Michiel Van Ginderachter</i> , 4) <i>Arthur Moraux</i> 1) Electronics and Informatics (ETRO), Vrije Universiteit Brussel, Brussels, Belgium, 2) Royal Meteorological Institute, Brussels, Belgium - Electronics and Informatics (ETRO), Vrije Universiteit Brussel, Brussels, Belgium - , 3) Royal Meteorological Institute, Brussels, Belgium, 4) Royal Meteorological Institute, Brussels, Belgium - Electronics and Informatics (ETRO), Vrije Universiteit Brussel, Brussels, Belgium -	Abstract ID: 126 Award candidate

8	16:00	16:15	<p>ENHANCING FLOOD PREDICTION USING X-BAND POLARIMETRIC RADAR DATA: TWO CASE STUDIES IN THE MARCHE REGION, ITALY</p> <p>1) Francesco Iocca*, 2) Annalina Lombardi, 3) Francesca Sini, 4) Gabriella Speranza, 5) Valentino Giordano, 6) Saverio Di Fabio, 7) Lorenzo Giorgio Didimi, 8) Marco Lazzeri, 9) Marco Tedeschini, 10) Marco Pellegrini, 11) Barbara Tomassetti</p> <p>1) Functional Centre, Marche Region Civil Protection Service, 60126 Ancona, Italy, 2) Department of Physical and Chemical Sciences (DSFC) University of L'Aquila - Center of Excellence Telesensing of Environment and Model Prediction of Severe Events (CETEMPS), 67100 L'Aquila, Italy - , 3) Functional Centre, Marche Region Civil Protection Service, 60126 Ancona, Italy, 4) Functional Centre, Marche Region Civil Protection Service, 60126 Ancona, Italy, 5) Functional Centre, Marche Region Civil Protection Service, 60126 Ancona, Italy, 6) Center of Excellence Telesensing of Environment and Model Prediction of Severe Events (CETEMPS), 67100 L'Aquila, Italy, 7) Functional Centre, Marche Region Civil Protection Service, 60126 Ancona, Italy, 8) Functional Centre, Marche Region Civil Protection Service, 60126 Ancona, Italy, 9) Functional Centre, Marche Region Civil Protection Service, 60126 Ancona, Italy, 10) Functional Centre, Marche Region Civil Protection Service, 60126 Ancona, Italy - Department of Life and Environmental Sciences (DISVA), Università Politecnica delle Marche, 60131 Ancona, Italy - LIF Srl, 50018 Scandicci (Firenze), Italy, 11) Center of Excellence Telesensing of Environment and Model Prediction of Severe Events (CETEMPS), 67100 L'Aquila, Italy</p>	<p>Abstract ID: 220</p> <p>-</p>
Session 4		Aula Archeologia	<p style="text-align: center;">Clouds and precipitation physics II Polarimetry</p> <p style="text-align: center;">Chairs: Jana Popova and Christine Unal</p>	
1	14:15	14:30	<p>CLOUD RADAR DEPOLARIZATION SIGNATURES OF SNOWFLAKES</p> <p>1) Dmitri Moisseev*, 2) Maximilian Maahn, 3) Annakaisa von Lerber</p> <p>Institute, Helsinki, Finland - , 2) Leipzig Institute for Meteorology, Leipzig University, Leipzig, Germany - Finnish Meteorological Institute, Helsinki, Finland - , 3) Finnish Meteorological Institute, Helsinki, Finland</p>	<p>Abstract ID: 338</p> <p>-</p>
2	14:30	14:45	<p>ESTIMATING AGGREGATION EFFICIENCIES USING POLARIMETRIC RADARS</p> <p>1) Edwin Dunnavan*, 2) Alexander Ryzhkov, 3) Jiayi Hu</p> <p>1) Cooperative Insitute for Severe and High-Impact Weather Research and Operations, Norman, OK, USA - National Severe Storms Laboratory, Norman, OK, USA - The University of Oklahoma, Norman, OK, USA, 2) Cooperative Insitute for Severe and High-Impact Weather Research and Operations, Norman, OK, USA - National Severe Storms Laboratory, Norman, OK, USA - The University of Oklahoma, Norman, OK, USA, 3) Cooperative Insitute for Severe and High-Impact Weather Research and Operations, Norman, OK, USA - National Severe Storms Laboratory, Norman, OK, USA - The University of Oklahoma, Norman, OK, USA</p>	<p>Abstract ID: 85</p> <p>Online</p>
3	14:45	15:00	<p>PEERING INTO THE HEART OF THUNDERSTORM CLOUDS: INSIGHTS FROM CLOUD RADAR AND SPECTRAL POLARIMETRY</p> <p>1) Ho Yi Lydia Mak, 2) Christine Unal*</p> <p>1) Delft University of Technology - Faculty CEG, 2) Delft University of Technology - Faculty CEG - Delft University of Technology - Climate Institute -</p>	<p>Abstract ID: 83</p> <p>-</p>
4	15:00	15:15	<p>INVESTIGATING ICE MICROPHYSICAL PROCESSES IN THE DENDRITIC GROWTH LAYER BY COMBINING POLARIMETRIC CLOUD RADAR OBSERVATIONS WITH MONTE-CARLO PARTICLE MODELING</p> <p>1) Leonie von Terzi*, 2) Christoph Siewert, 3) Axel Seifert, 4) Stefan Kneifel</p> <p>1) Meteorological Institute, Ludwig-Maximilians University Munich, 2) Deutscher Wetterdienst, 3) Deutscher Wetterdienst, 4) Meteorological Institute, Ludwig-Maximilians University Munich</p>	<p>Abstract ID: 242</p> <p>-</p>
5	15:15	15:30	<p>POSITIVE AND NEGATIVE SCATTERING DIFFERENTIAL PHASE: OBSERVATIONS AND UTILIZATION IN MICROPHYSICAL RETRIEVALS.</p> <p>1) Valery Melnikov*, 2) Dusan Zrnica, 3) Arthur Witt</p> <p>1) Oklahoma University - National Severe Storms Laboratory - , 2) National Severe Storms Laboratory, 3) National Severe Storms Laboratory</p>	<p>Abstract ID: 23</p> <p>-</p>
6	15:30	15:45	<p>A NEW ALGORITHM FOR DISCRIMINATING AGGREGATION AND RIMING BASED ON POLARIMETRIC WEATHER RADARS</p> <p>1) Armin Blanke*, 2) Mathias Gergely, 3) Silke Trömel</p> <p>1) Institute of Geosciences, Department of Meteorology, University of Bonn, Bonn, 53121, Germany, 2) German Meteorological Service (Deutscher Wetterdienst, DWD), Observatorium Hohenpeißenberg, Hohenpeißenberg, 82383, Germany, 3) Institute of Geosciences, Department of Meteorology, University of Bonn, Bonn, 53121, Germany - Laboratory for Clouds and Precipitation Exploration, Geoverbund ABC/J, Bonn, 53121, Germany -</p>	<p>Abstract ID: 120</p> <p>-</p>
7	15:45	16:00	<p>INVESTIGATING THE ORIGIN OF W-BAND RADAR KDP SIGNATURES INSIDE AND BELOW THE DENDRITIC GROWTH LAYER</p> <p>1) Anton Kötsche*, 2) Alexander Myagkov, 3) Maximilian Maahn, 4) Veronika Ettrichrätz, 5) Alexander Ryzhkov, 6) Petar Bukovic, 7) Leonie von Terzie, 8) Stefan Kneifel, 9) Heike Kalesse-Los</p> <p>1) Leipzig Institute for Meteorology, University of Leipzig, Germany, 2) RPG Radiometer Physics GmbH, Germany , 3) Leipzig Institute for Meteorology, University of Leipzig, Germany, 4) Leipzig Institute for Meteorology, University of Leipzig, Germany, 5) NSSL, Norman, OK, USA, 6) NSSL, Norman, OK, USA, 7) Meteorological Institute, Ludwig-Maximilians-Universität in Munich, Munich, Germany, 8) Meteorological Institute, Ludwig-Maximilians-Universität in Munich, Munich, Germany, 9) Leipzig Institute for Meteorology, University of Leipzig, Germany</p>	<p>Abstract ID: 168</p> <p>Online</p>
8	16:00	16:15	<p>INVESTIGATION OF THE DUAL-POLARIZATION RADAR BRIGHT BAND SIGNATURES USING MELTING MODEL PROFILE IN NORTHERN TAIWAN</p> <p>1) Jui Le Loh*, 2) Wei Yu Chang, 3) Bo An Tsai, 4) Yu Chieng Liou, 5) Pao Liang Chang, 6) Pin Fang Lin</p> <p>1) Department of Atmospheric Sciences, National Central University, Taiwan, 2) Department of Atmospheric Sciences, National Central University, Taiwan, 3) Department of Atmospheric Sciences, National Central University, Taiwan, 4) Department of Atmospheric Sciences, National Central University, Taiwan, 5) Central Weather Bureau, Taipei, Taiwan, 6) Central Weather Bureau, Taipei, Taiwan</p>	<p>Abstract ID: 93</p> <p>-</p>

Session 5		Aula Magna		Radar hydrometeorological applications III Extremes Chairs: Karen Kosiba and Anna Fornasiero	
1	16:45	17:00	EXTREME EVENT EVALUATION OF RADAR-DERIVED POLARIMETRIC PRECIPITATION ESTIMATES USING A DENSE NETWORK OF RAIN GAUGES 1) <i>Bong-Chul Seo*</i> , 2) <i>Witold Krajewski</i> 1) Missouri University of Science and Technology, 2) University of Iowa	Abstract ID: 233	
2	17:00	17:15	CONVECTIVE RAINFALL INTENSIFICATION AND CHANGING SPATIAL PATTERNS IN URBAN AREAS 1) <i>Herminia Torelló-Sentelles*</i> , 2) <i>Francesco Marra</i> , 3) <i>Marika Koukoulou</i> , 4) <i>Gabriele Villarini</i> , 5) <i>Nadav Peleg</i> 1) Institute of Earth Surface Dynamics, University of Lausanne, Lausanne, Switzerland, 2) Department of Geosciences, University of Padova, Padova, Italy, 3) Institute of Earth Surface Dynamics, University of Lausanne, Lausanne, Switzerland, 4) Department of Civil and Environmental Engineering, Princeton University, Princeton, USA - High Meadows Environmental Institute, Princeton University, Princeton, USA - , 5) Institute of Earth Surface Dynamics, University of Lausanne, Lausanne, Switzerland	Abstract ID: 279	Online
3	17:15	17:30	EXPLORING THE USE OF LIGHTNING CHARACTERISTICS TO IMPROVE THE RADAR-BASED DETECTION OF HAILSTORM SEVERITY 1) <i>Federico Vermi*</i> , 2) <i>Vincenzo Capozzi</i> , 3) <i>Giulio Monte</i> , 4) <i>Giorgio Budillon</i> , 5) <i>Sante Laviola</i> 1) Department of Science and Technology, University of Naples "Parthenope", Centro Direzionale di Napoli, Isola C4, 80143, Italy - National Research Council, Institute of Atmospheric Science and Climate, via Gobetti 101, 40129 Bologna, Italy - , 2) Department of Science and Technology, University of Naples "Parthenope", Centro Direzionale di Napoli, Isola C4, 80143, Italy, 3) National Research Council, Institute of Atmospheric Science and Climate, via Gobetti 101, 40129 Bologna, Italy, 4) Department of Science and Technology, University of Naples "Parthenope", Centro Direzionale di Napoli, Isola C4, 80143, Italy, 5) National Research Council, Institute of Atmospheric Science and Climate, via Gobetti 101, 40129 Bologna, Italy	Abstract ID: 311	
4	17:30	17:45	DETECTION OF HAIL WITH A MACHINE LEARNING ALGORITHMS BASED ON WEATHER RADAR DATA 1) <i>Agnieszka Kurcz*</i> , 2) <i>Anna Jurczyk</i> , 3) <i>Jan Szturc</i> 1) Institute of Meteorology and Water Management - National Research Institute, 2) Institute of Meteorology and Water Management - National Research Institute, 3) Institute of Meteorology and Water Management - National Research Institute	Abstract ID: 82	
5	17:45	18:00	UNCERTAINTY ESTIMATION FOR CONVECTIVE CELL NOWCASTING: A KALMAN-FILTER IMPLEMENTATION OF ENHANCED TITAN 1) <i>Li-Pen Wang</i> , 2) <i>Andrew McNaughton*</i> , 3) <i>Yuting Chen</i> , 4) <i>Robert Scovell</i> , 5) <i>Duncan Wright</i> , 6) <i>Carlos Munoz Lopez</i> , 7) <i>Christian Onof</i> , 8) <i>Claire Bartholemew</i> , 9) <i>Katie Norman</i> , 10) <i>Susana Ochoa-Rodriguez</i> 1) National Taiwan University, Taiwan - RainPlusPlus Ltd., UK - , 2) Met Office, UK, 3) Imperial College London, UK, 4) Met Office, UK, 5) Met Office, UK, 6) Ku Leuven, Belgium, 7) Imperial College London, UK, 8) Met Office, UK, 9) Met Office, UK, 10) RainPlusPlus Ltd., UK	Abstract ID: 170	
Session 6		Aula Archeologia		Clouds and precipitation physics III Doppler Chairs: Leonie Von Terzi and Vincenzo Capozzi	
1	16:45	17:00	ANALYSIS OF RADAR DOPPLER SPECTRA OBSERVED BY AN AIRBORNE CLOUD RADAR 1) <i>Ulrike Romatschke</i> 1) NSF National Center for Atmospheric Research	Abstract ID: 152	Online
2	17:00	17:15	VERTICAL WIND AND DROP SIZE DISTRIBUTION RETRIEVAL WITH A G-BAND DOPPLER RADAR 1) <i>Nitika Yurk*</i> , 2) <i>Matthew Lebsock</i> , 3) <i>Juan Socuellamos</i> , 4) <i>Raquel Monje</i> , 5) <i>Ken Cooper</i> 1) Jet Propulsion Laboratory, 2) Jet Propulsion Laboratory, 3) Jet Propulsion Laboratory, 4) Jet Propulsion Laboratory, 5) Jet Propulsion Laboratory	Abstract ID: 142	
3	17:15	17:30	ADVANCED CLOUD DETECTION AND VELOCITY UNFOLDING TECHNIQUES FOR 94-GHZ CLOUD RADAR 1) <i>Shaik Allabakash*</i> , 2) <i>Hajime Okamoto</i> , 3) <i>Kaori Sato</i> , 4) <i>Hiroaki Horie</i> , 5) <i>Ohno Yuichi</i> , 6) <i>Iwai Hironori</i> , 7) <i>Masayuki Yamamoto</i> 1) Research Institute for Applied Mechanics, Kyushu University, Fukuoka, Japan, 2) Research Institute for Applied Mechanics, Kyushu University, Fukuoka, Japan, 3) Research Institute for Applied Mechanics, Kyushu University, Fukuoka, Japan, 4) National Institute of Information and Communications Technology (NICT), Japan, 5) National Institute of Information and Communications Technology (NICT), Japan, 6) National Institute of Information and Communications Technology (NICT), Japan, 7) National Institute of Information and Communications Technology (NICT), Japan	Abstract ID: 296	Online
4	17:30	17:45	GENERATING A MULTI-DOPPLER RADAR 3D WIND COMPOSITE FOR THE WESCON-WOEST CAMPAIGN IN SOUTHERN ENGLAND 1) <i>Robert Thompson*</i> , 2) <i>Thorwald Stein</i> , 3) <i>Ryan Neely III</i> , 4) <i>Lindsay Bennett</i> 1) University of Reading, 2) University of Reading, 3) National Centre for Atmospheric Science - University of Leeds - , 4) National Centre for Atmospheric Science - University of Leeds -	Abstract ID: 54	
5	17:45	18:00	CONVECTION IN THE VICINITY OF THE BLACK FOREST 1) <i>Melissa Latt*</i> , 2) <i>Philipp Gasch</i> , 3) <i>Jan Handwerker</i> 1) Karlsruhe Institute of Technology (KIT), Institute of Meteorology and Climate Research (IMKTRO), Karlsruhe, Germany, 2) Karlsruhe Institute of Technology (KIT), Institute of Meteorology and Climate Research (IMKTRO), Karlsruhe, Germany, 3) Karlsruhe Institute of Technology (KIT), Institute of Meteorology and Climate Research (IMKTRO), Karlsruhe, Germany	Abstract ID: 73	Award candidate

Day 2		Tuesday, September 10, 2024		
Keynote	Aula Magna	Keynote: POLARIMETRIC RADAR OBSERVATIONS MEET ATMOSPHERIC MODELLING (PROM) - A RESEARCH INITIATIVE IN GERMANY Keynote Speaker: SILKE TRÖMEL 1) <i>Silke Trömel*</i> , 2) <i>and the PROM Team</i> 1) Institute for Geosciences, Department of Meteorology, University of Bonn, Germany - Laboratory for Clouds and Precipitation Exploration,		Abstract ID: 172
	8:45 9:15			
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) <i>Dusan Zrnica*</i> , 2) <i>Djordje Mirkovic</i> , 3) <i>David Schvartzman</i> , 4) <i>Pegfei Zhang</i> , 5) <i>Valery Melnikov</i> , 6) <i>Emma Miller</i> 1) DOC NOAA/National Severe Storms Laboratory (NSSL) - Advanced Radar Research Center - Departments 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) School of Meteorology, University of Oklahoma - Advanced Radar Research Center - , 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) School 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) <i>Adrien Guyot*</i> , 2) <i>Hamish McGowan</i> , 3) <i>Joshua Soderholm</i> , 4) <i>Jordan Brook</i> , 5) <i>Kathryn Turner</i> , 6) <i>Nick McCarthy</i> , 7) <i>Alain Protat</i> 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) <i>Freya Addison*</i> , 2) <i>Ryan Neely III</i> , 3) <i>Elizabeth Duncan</i> , 4) <i>Thomas Dally</i> , 5) <i>Maryna Lukach</i> , 6) <i>Mansi Mungee</i> 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 Leeds National Environment Research Council		Abstract ID: 292
4	10:05 10:20	OBSERVATION AND SIMULATION OF ECHOES FROM FLYING ORGANISMS USING METEOROLOGICAL RADARS 1) <i>Thibault Désert*</i> , 2) <i>Valery Melnikov</i> , 3) <i>Vincent Delcourt</i> , 4) <i>Baptiste Schmid</i> , 5) <i>Ludovic Bouilloud</i> , 6) <i>Camille Assali</i> , 7) <i>Cecile Bon</i> , 8) <i>Amédée Roy</i> 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) <i>Moritz Lochmann*</i> , 2) <i>Heike Kalesse-Los</i> , 3) <i>Teresa Vogl</i> , 4) <i>Willi Schimmel</i> , 5) <i>Roel van Klink</i> , 6) <i>Christian Wirth</i> 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) <i>Bart Kranstauber*</i> , 2) <i>Bart Hoekstra</i> , 3) <i>Silke Bauer</i> , 4) <i>Adriaan M Dokter</i> , 5) <i>Peter Desmet</i> , 6) <i>Hans van Gasteren</i> , 7) <i>Birgen Haest</i> , 8) <i>Hidde Leijnse</i> , 9) <i>Cecilia Nilsson</i> , 10) <i>Baptiste Schmid</i> , 11) <i>Nadja Weisshaupt</i> , 12) <i>Judy Z Shamoun-Baranes</i> 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) <i>Tomoo Ushio*</i> , 2) <i>Yuuki Wada</i> , 3) <i>Hiroshi Kikuchi</i> , 4) <i>Eiichi Yoshikawa</i> 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) <i>David Schvartzman*</i> , 2) <i>Robert Palmer</i> 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	<p>THE POTENTIAL OF THE POLARIMETRIC ATMOSPHERIC IMAGING RADAR (PAIR) FOR UNPRECEDENTED INSIGHTS ABOUT STORM EVOLUTION</p> <p>1) Tian-You Yu*, 2) David Schvartzman, 3) Jorge Salazar Cerreno, 4) Caleb Fulton, 5) Robert Palmer, 6) Mark Yeary, 7) Howard Bluestein</p> <p>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</p>	Abstract ID: 192
4	10:05	10:20	<p>DUAL-POLARIZATION ANALYSIS CONCEPTS FOR APAR SIMULATION OF AIRBORNE PHASED ARRAY RADAR (APAR) ARCHITECTURE</p> <p>1) Eiichi Yoshikawa, 2) V. Chandrasekar*</p> <p>1) Colorado State University, 2) Colorado State University</p>	Abstract ID: 377
5	10:20	10:35	<p>THE NATIONAL SEVERE STORMS LABORATORY (NSSL) PHASED ARRAY WEATHER RADAR RESEARCH AND DEVELOPMENT PROGRAM: SUCCESSES AND OPPORTUNITIES</p> <p>1) Rafael Mendoza*, 2) Anthony Reinhart, 3) Daniel Wasielewski, 4) Sebastian Torres, 5) Addison Alford, 6) Terry Schuur, 7) Larry Hopper</p> <p>1) NOAA/OAR/NSSL, 2) NOAA/OAR/NSSL, 3) NOAA/OAR/NSSL, 4) OUCI/WRO - NOAA/OAR/NSSL - , 5) NOAA/OAR/NSSL, 6) OUCI/WRO - NOAA/OAR/NSSL - , 7) NOAA/OAR/NSSL</p>	Abstract ID: 370
6	10:35	10:50	<p>CRMN - RADAR IMAGE SUPER RESOLUTION USING A CONVOLUTIONAL RECURRENT MIXER NETWORK</p> <p>1) Daniel Felipe da Silva Santos, 2) Rafael Gonçalves Pires, 3) Jaqueline Murakami Kokitsu, 4) João Paulo Papa, 5) Roberto Vicente Calheiros*</p> <p>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</p>	Abstract ID: 204

Session 3		Aula Magna	<p style="text-align: center;">Radar hydrometeorological applications IV Data Assimilation</p> <p style="text-align: center;">Chairs: Silke Troemel and Alexis Berne</p>	
1	14:15	14:30	<p>CURRENT STATUS OF SINFONY – THE COMBINATION OF NOWCASTING AND NUMERICAL WEATHER PREDICTION FOR FORECASTING CONVECTIVE EVENTS AT DWD</p> <p>1) Ulrich Blahak*, 2) Team SINFONY</p> <p>1) Deutscher Wetterdienst, 2) Deutscher Wetterdienst</p>	Abstract ID: 183
2	14:30	14:45	<p>ASSIMILATION OF RADAR DATA IN ICON AT VERY HIGH RESOLUTION - THE GLORI PROJECT</p> <p>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</p> <p>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</p>	Abstract ID: 324
3	14:45	15:00	<p>IMPACT OF ASSIMILATING RADAR REFRACTIVITY WITH RADIAL WIND AND REFLECTIVITY IN THE CONTEXT OF ENSEMBLE KALMAN FILTER</p> <p>1) Kao-Shen Chung*, 2) Nghi Phuong Do, 3) Pay-Liam Lin, 4) Bo-An Tsai, 5) Ya-Chien Feng</p> <p>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</p>	Abstract ID: 72
4	15:00	15:15	<p>THE AROME-MESONH RADAR DUAL-POLARIZATION FORWARD OPERATOR: RECENT PROGRESS AND OUTLOOK</p> <p>1) Clotilde Augros*, 2) Cloé David</p> <p>1) CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France, 2) CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France</p>	Abstract ID: 207
5	15:15	15:30	<p>ASSIMILATION OF RADAR REFLECTIVITIES AND WINDS FROM OPERA NIMBUS IN HARMONIE-AROME</p> <p>1) Günther Haase*, 2) Jana Sánchez Arriola, 3) Martin Ridal, 4) Mats Dahlbom, 5) Magnus Lindskog</p> <p>1) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden, 2) Agencia Estatal de Meteorología, Santander, Spain, 3) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden, 4) Danish Meteorological Institute, Copenhagen, Denmark, 5) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden</p>	Abstract ID: 221
6	15:30	15:45	<p>ASSIMILATING 3D RADAR REFLECTIVITY OBSERVATIONS IN COMPLEX TOPOGRAPHY</p> <p>1) Alina Yapparova*, 2) Claire Merker, 3) Daniel Leuenberger, 4) Marco Boscacci, 5) Urs Germann, 6) David Leutwyler</p> <p>1) MeteoSwiss, 2) MeteoSwiss, 3) MeteoSwiss, 4) MeteoSwiss, 5) MeteoSwiss, 6) MeteoSwiss</p>	Abstract ID: 140
7	15:45	16:00	<p>COMBIPRECIP ENSEMBLE: GENERATION OF MULTI-MEMBER REALIZATIONS FROM A KRIGING-BASED RADAR-RAINGAUGE COMBINATION APPLICATION IN SWITZERLAND</p> <p>1) Athanasios Ntoumos*, 2) Ioannis Sideris, 3) Marco Gabella, 4) Alexis Berne, 5) Urs Germann</p> <p>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</p>	Abstract ID: 167
8	16:00	16:15	<p>THE MEAN DIAMETER UPDATE APPROACH FOR ENSEMBLE-BASED DUAL-POLARIMETRIC RADAR DATA ASSIMILATION</p> <p>1) Kao-Shen Chung*, 2) Bing-Xue Zhuang, 3) Wei-Yu Chang, 4) Chih-Chien Tsai</p> <p>1) National Central University, 2) National Central University, 3) National Central University, 4) National Science and Technology Center for Disaster Reduction</p>	Abstract ID: 163

Session 4		Aula Archeologia	Weather radar technologies II Chairs: David Schwartzman 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 Goliash, 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) Sebastián 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 Pejčić, 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 Rizzi, 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 L'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;
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	<p>ADVANCED RADAR CALIBRATION: PULSE COMPRESSION VS. CONVENTIONAL SYSTEMS <i>1) Marc Schneebeli*, 2) Philipp Schmid, 3) Andreas Leuenberger, 4) Heather Corden, 5) Jacopo Grazioli, 6) Alexis Berne, 7) David Schwartzman, 8) Boonleng Cheong, 9) Jim George, 10) Francesc Junyent, 11) Patrick Kennedy, 12) V. Chandrasekar</i></p> <p>1) Palindrome Remote Sensing, Landquart, Switzerland, 2) University of Bern, Bern, Switzerland - Meteovizzera, 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</p>	Abstract ID: 235
4	17:30	17:45	<p>APACHE AIRFLOW BASED RADAR DATA PROCESSING ARCHITECTURE AT THE FINNISH METEOROLOGICAL INSTITUTE <i>1) Joonas Karjalainen</i> 1) Finnish Meteorological Institute</p>	Abstract ID: 175
5	17:45	18:00	<p>IMPACT OF DIFFERENT REFLECTIVITY RADAR-BASED PRODUCTS ON THE PERFORMANCES OF A METEOROLOGICAL FORECASTING MODELING CHAIN <i>1) Luca Rovai, 2) Alberto Ortolani*, 3) Samantha Melani, 4) Andrea Antonini, 5) Luca Fibbi, 6) Bernardo Gozzini</i></p> <p>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</p>	Abstract ID: 372
6	18:00	18:15	<p>USE OF DUAL-POLE RADAR DATA IN OPERATIONAL NOWCASTING INFORMATION AT DWD <i>1) Tim Böhme</i> 1) Deutscher Wetterdienst, 63067 Offenbach, Germany</p>	Abstract ID: 222
7	18:15	18:30	<p>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 <i>1) Ying Wa Chan</i> 1) Hong Kong Observatory</p>	Abstract ID: 14
8	18:30	18:45	<p>ADVANCES IN PRECIPITATION ESTIMATION USING THE SOPHY WEATHER RADAR <i>1) Carlos Del-Castillo Velarde, 2) Ken Takahashi Guevara, 3) Danny E Scipion, 4) Ricardo Reinoso-Rondinel*</i></p> <p>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 -</p>	Abstract ID: 69

Day 3		Wednesday, September 11, 2024	
Gutta Aurea	Aula Magna	GUTTA AUREA Award Ceremony	
	8:45 9:15	The Marzano "Gutta Aurea" (golden drop, in latin) award has the ambition of preserving the human and scientific memory of our late colleague Frank Marzano, who passed away prematurely and unexpectedly in 2022 at the age of 59 and intends to recognize outstanding international contributions in remote sensing applied to atmospheric science, meteorology, and telecommunications. The winner of the 2024 edition will be announced and will be required to give a keynote speech.	
Session 1	Aula Magna	Operational aspects II Chairs: Annakaisa von Lerber and Roberto Cremonini	
1	9:20 9:35	ASSESSMENT OF HAIL DETECTION CAPABILITY OF HYDROMETEOR IDENTIFICATION ALGORITHM OVER C-BAND NETWORK 1) Paola Salio*, 2) Esteban Garuti, 3) Vito Galligani, 4) Maite Cancelada, 5) Fernanda Verdelho, 6) Cesar Beneti 1) Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Ciencias de la Atmósfera y los Océanos. Buenos Aires, Argentina. - CONICET – Universidad de Buenos Aires. Centro de Investigaciones del Mar y la Atmósfera. Buenos Aires, Argentina. Instituto Franco-Argentino de Estudios sobre el Clima y sus Impactos – IRL 3351 – CNRS-CONICET-IRD-UBA. Buenos Aires, Argentina. - , 2) Servicio Meteorológico Nacional. Buenos Aires Argentina. - Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Ciencias de la Atmósfera y los Océanos. Buenos Aires, Argentina. - , 3) Servicio Meteorológico Nacional. Buenos Aires Argentina. - CONICET – Universidad de Buenos Aires. Centro de Investigaciones del Mar y la Atmósfera. Buenos Aires, Argentina. Instituto Franco-Argentino de Estudios sobre el Clima y sus Impactos – IRL 3351 – CNRS-CONICET-IRD-UBA. Buenos Aires, Argentina. - , 4) Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Ciencias de la Atmósfera y los Océanos. Buenos Aires, Argentina., 5) SIMEPAR - Environmental Technology and Monitoring Services, Curitiba, Brazil., 6) SIMEPAR - Environmental Technology and Monitoring Services, Curitiba, Brazil.	Abstract ID: 362 -
2	9:35 9:50	A DEEP EVALUATION OF SEVERE HAIL ALGORITHMS USING CONVENTIONAL RADAR METRICS AND A NEW CNN-BASED APPROACH APPLIED TO MÉTÉO-FRANCE RADAR NETWORK 1) Clotilde Augros*, 2) Vincent Forcadell, 3) Maxandre Ouradou, 4) Olivier Caumont, 5) Pierre Lepetit, 6) Cloé David 1) CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France, 2) CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France - Descartes Underwriting, Paris, France - , 3) CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France, 4) Météo-France, Direction des opérations pour la prévision, Toulouse, France - CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France - , 5) Météo-France, Direction de l'Observation, Toulouse, France, 6) CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France	Abstract ID: 206 -
3	9:50 10:05	AN INNOVATIVE APPROACH FOR REAL-TIME HAIL SIZE ESTIMATION 1) Valentina Gregori*, 2) Antonio Frigioni, 3) Nicola Carlon, 4) Andrea Chini, 5) Massimo Crespi, 6) Gianluca Ferrari 1) Hypermeteo S.r.l., 2) Radarmeteo S.r.l., 3) Radarmeteo S.r.l., 4) Hypermeteo S.r.l., 5) Hypermeteo S.r.l., 6) Hypermeteo S.r.l.	Abstract ID: 143
4	10:05 10:20	IMPROVING ZDR COLUMN DETECTION WITH THE "HOTSPOT METHOD" 1) Vinzent Klaus*, 2) John Krause 1) BOKU University, Institute of Meteorology and Climatology, Vienna, Austria, 2) Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO), Norman, Oklahoma	Abstract ID: 173 Online
5	10:20 10:35	DEVELOPMENT OF AN OPERATIONAL SURFACE HYDROMETEOR CLASSIFICATION ALGORITHM FOR THE NEXRAD NETWORK 1) Jacob Carlin*, 2) Lee Dunnavan, 3) John Krause, 4) Marcus Johnson 1) NOAA/OAR National Severe Storms Laboratory, Norman, Oklahoma, USA , 2) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma, Norman, Oklahoma, USA - NOAA/OAR National Severe Storms Laboratory, Norman, Oklahoma, USA - , 3) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma, Norman, Oklahoma, USA - NOAA/OAR National Severe Storms Laboratory, Norman, Oklahoma, USA - , 4) Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma, Norman, Oklahoma, USA - NOAA/OAR National Severe Storms Laboratory, Norman, Oklahoma, USA -	Abstract ID: 188 -
6	10:35 10:50	RAPID-SCAN OBSERVATIONS OF TORNADOGENESIS AND SENSITIVITIES TO RADAR-BASED THRESHOLDS: TRENDS, QUESTIONS, AND OPERATIONAL IMPLICATIONS 1) Jana Houser*, 2) Howard B Bluestein 1) The Ohio State University, 2) The University of Oklahoma	Abstract ID: 226 -
Session 2	Aula Archeologia	Clouds and precipitation physics V Microphysics Chairs: Steven Nesbitt and Maite Cancelada	
1	9:20 9:35	CLOUD DSD DISPERSION AND SENSING THE ONSET OF COLLISION-COALESCENCE AND DRIZZLE FROM REMOTE AND IN-SITU MEASUREMENTS 1) Jothiram Vivekanandan*, 2) Alexander Kostinski, 3) Gwo-Jong Huang 1) National Center for Atmospheric Research, 2) Michigan Technological University, 3) Colorado State university	Abstract ID: 227
2	9:35 9:50	DROPLETS SIZE COMPARISON FROM DIFFERENT RETRIEVAL ALGORITHMS: A CASE STUDY AT CLOUDNET GRANADA STATION 1) Matheus Tolentino*, 2) Maria José Granados-Muñoz, 3) Francisco Navas-Guzmán, 4) Juan Luíz Guerrero-Rascado, 5) Lucas Alados-Arboleda, 6) Juan Antonio Bravo-Aranda 1) Department of Applied Physics, University of Granada - Andalusian Institute for Earth System Research - , 2) Department of Applied Physics, University of Granada - Andalusian Institute for Earth System Research - , 3) Department of Applied Physics, University of Granada - Andalusian Institute for Earth System Research - , 4) Department of Applied Physics, University of Granada - Andalusian Institute for Earth System Research - , 5) Department of Applied Physics, University of Granada - Andalusian Institute for Earth System Research - , 6) Department of Applied Physics, University of Granada - Andalusian Institute for Earth System Research -	Abstract ID: 307

3	9:50 10:05	<p>DECODING CLOUD MICROPHYSICS: A STUDY USING THE INNOVATIVE PROCESS-ORIENTED VERTICAL PROFILE (POVP) TECHNIQUE WITH WSR-88D RADAR OBSERVATIONS</p> <p>1) <i>Jiaxi Hu*</i>, 2) <i>Pengfei Zhang</i>, 3) <i>Ryzhkov Alexander</i></p> <p>1) Cooperative Institute for Severe aHigh-Impact Weather Research and Operations, University of Oklahoma, Norman, OK 73072, USA - NOAA/OAR National Severe Storms Laboratory, Norman, OK 73072, USA - , 2) Cooperative Institute for Severe aHigh-Impact Weather Research and Operations, University of Oklahoma, Norman, OK 73072, USA - NOAA/OAR National Severe Storms Laboratory, Norman, OK 73072, USA - , 3) Cooperative Institute for Severe aHigh-Impact Weather Research and Operations, University of Oklahoma, Norman, OK 73072, USA - NOAA/OAR National Severe Storms Laboratory, Norman, OK 73072, USA -</p>	<p>Abstract ID: 61</p> <p>Online</p>
4	10:05 10:20	<p>PREDICTING RIMING FROM DOPPLER CLOUD RADAR OBSERVATIONS USING ARTIFICIAL NEURAL NETWORK</p> <p>1) <i>Teresa Vogl*</i>, 2) <i>Maximilian Maahn</i>, 3) <i>Stefan Kneifel</i>, 4) <i>Willi Schimmel</i>, 5) <i>Dmitri Moisseev</i>, 6) <i>Heike Kalesse-Los</i></p> <p>1) Leipzig University, Leipzig, Germany, 2) Leipzig University, Leipzig, Germany, 3) Ludwig Maximilians Universität, Munich, Germany , 4) Leibniz Institute for Tropospheric Research, Leipzig, Germany, 5) Finnish Meteorological Institute, Helsinki, Finland, 6) Leipzig University, Leipzig, Germany</p>	<p>Abstract ID: 11</p>
5	10:20 10:35	<p>MICRO RAIN RADAR BASED ANALYSIS OF RAINFALL EVAPORATION EFFECTS DURING THE LIAISE FIELD CAMPAIGN</p> <p>1) <i>Joan Bech*</i>, 2) <i>Albert Garcia-Benadi</i>, 3) <i>Mireia Udina</i>, 4) <i>Francesc Polls</i>, 5) <i>Eric Peinó</i>, 6) <i>Alexandre Paci</i>, 7) <i>Brice Boudevillain</i></p> <p>1) Dept. Applied physics - Meteorology, Universitat de Barcelona, Barcelona, Spain - Water Research Institute, Universitat de Barcelona, Barcelona, Spain - , 2) UTG Campus de Vilanova i la Geltrú, Universitat Politècnica de Catalunya, Spain, 3) Dept. Applied physics - Meteorology, Universitat de Barcelona, Barcelona, Spain, 4) Dept. Applied physics - Meteorology, Universitat de Barcelona, Barcelona, Spain, 5) Dept. Applied physics - Meteorology, Universitat de Barcelona, Barcelona, Spain, 6) CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France, 7) Université Grenoble Alpes, CNRS, IRD, Grenoble-INP, Grenoble, France</p>	<p>Abstract ID: 285</p>
6	15:15 15:30	<p>UTILIZING RADAR OBSERVATIONS TO AUTOMATE CLASSIFICATION OF BOUNDARY LAYER ORGANIZATIONAL MODE USING CONVOLUTIONAL NEURAL NETWORKS</p> <p>1) <i>Hyeri Kim*</i>, 2) <i>David Bodine</i></p> <p>1) Advanced Radar Research Center - University of Oklahoma - , 2) Advanced Radar Research Center - University of Oklahoma -</p>	<p>Abstract ID: 213</p>

Day 4		Thursday, September 12, 2024	
Keynote	Aula Magna	Keynote part 1: EARTHCARE - THE CLOUD AEROSOL AND RADIATION EXPLORER'S MISSION STATUS AND OPERATIONAL PHASE MANAGEMENT Abstract ID: 218 Keynote Speaker: BJOERN FROMMKNECHT 1) Bjoern Frommknecht*, 2) Thorsten Fehr, 3) Dirk Bernaerts, 4) Patrick Deghaye, 5) Michael Eisinger, 6) Timon Hummel, 7) Kubota Takuji, 8) Rob Koopman, 9) Nio Tomomi, 10) Stephanie Rusli, 11) Toshiyuko Tanaka, 12) Tomita Eiichi, 13) Vasileios Tzallas, 14) Jonas von Bismarck, 15) Kotska Wallace, 16) Christophe Caspar 1) European Space Agency (ESA), 2) European Space Agency (ESA), 3) European Space Agency (ESA), 4) European Space Agency (ESA), 5) European Space Agency (ESA), 6) European Space Agency (ESA), 7) Japan Space Exploration Agency (JAXA), 8) European Space Agency (ESA), 9) Japan Space Exploration Agency (JAXA), 10) European Space Agency (ESA), 11) Japan Space Exploration Agency (JAXA), 12) Japan Space Exploration Agency (JAXA), 13) European Space Agency (ESA), 14) European Space Agency (ESA), 15) European Space Agency (ESA), 16) European Space Agency (ESA)	
	8:45 9:15	Keynote part 2: CLOUD PHYSICAL PROPERTIES AND VERTICAL VELOCITY EXPECTED FROM EARTHCARE MISSION Abstract ID: 314 Keynote Speaker: HAJIME OKAMOTO 1) Hajime Okamoto*, 2) Kaori Sato, 3) Allabakash Sheik, 4) Tomoaki Nishizawa, 5) Hiroaki Horie, 6) Hironori Iwai, 7) Mana Ueno, 8) Masaki Satoh, 9) Woosub Roh, 10) Takashi Nakajima 1) Research Institute for Applied Mechanics, Kyushu University, 2) Research Institute for Applied Mechanics, Kyushu University, 3) Research Institute for Applied Mechanics, Kyushu University, 4) National Institute for Environmental Studies, 5) National Institute of Information and Communications Technology, 6) National Institute of Information and Communications Technology, 7) Research Institute for Applied Mechanics, Kyushu University, 8) Atmosphere and Ocean Research Institute, The University of Tokyo, 9) Atmosphere and Ocean Research Institute, The University of Tokyo, 10) Tokai University	
Session 1	Aula Magna	Space borne clouds and precipitation radar I Chairs: Nobuhiro Takahashi and Alessandro Battaglia	
1	9:20 9:35	EARTHCARE - STATUS UPDATE ON PROCESSOR AND PRODUCTS Abstract ID: 349 1) Timon Hummel*, 2) Dirk Bernaerts, 3) Jonas von Bismarck, 4) Christophe Caspar, 5) Patrick Deghaye, 6) Michael Eisinger, 7) Thorsten Fehr, 8) Bjoern Frommknecht, 9) Rob Koopman, 10) Fabien Marnas, 11) Stephanie Ruesli, 12) Vasileios Tzallas, 13) Kotska Wallace 1) European Space Agency (ESA), ESRIN, Frascati, Italy, 2) European Space Agency (ESA), ESTEC, Noordwijk, The Netherlands, 3) European Space Agency (ESA), ESTEC, Noordwijk, The Netherlands, 4) European Space Agency (ESA), ESRIN, Frascati, Italy, 5) European Space Agency (ESA), ESTEC, Noordwijk, The Netherlands, 6) European Space Agency (ESA), ECSAT, Harwell, United Kingdom, 7) European Space Agency (ESA), ESTEC, Noordwijk, The Netherlands, 8) European Space Agency (ESA), ESRIN, Frascati, Italy, 9) European Space Agency (ESA), ESTEC, Noordwijk, The Netherlands, 10) European Space Agency (ESA), ESTEC, Noordwijk, The Netherlands, 11) European Space Agency (ESA), ESTEC, Noordwijk, The Netherlands, 12) European Space Agency (ESA), ESRIN, Frascati, Italy, 13) European Space Agency (ESA), ESTEC, Noordwijk, The Netherlands	
2	9:35 9:50	CLOUD AND PRECIPITATION MICROPHYSICAL RETRIEVALS FROM THE EARTHCARE CLOUD PROFILING RADAR: THE C-CLD PRODUCT Abstract ID: 20 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 di 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	
3	9:50 10:05	CLOUD-PRECIPIATION PARTICLE CATEGORIES OBSERVED FROM SPACE BORNE ACTIVE SENSOR Abstract ID: 312 1) Kaori Sato*, 2) Hajime Okamoto 1) Research Institute for Applied Mechanics, Kyushu University, 2) Research Institute for Applied Mechanics, Kyushu University	
4	10:05 10:20	THE NASA INCUS MISSION AND OBSERVATIONS OF CONVECTIVE MASS FLUX THROUGH REFLECTIVITY DIFFERENCING Abstract ID: 282 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) Itinderjot 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	
5	10:20 10:35	CHARACTERIZING WINDS AND CLOUDS INSIDE TROPICAL CYCLONES WITH THE PROPOSED ESA EARTH EXPLORER 11 WIVERN MISSION Abstract ID: 110 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	
6	10:35 10:50	VALIDATION OF EARTHCARE REFLECTIVITY WEIGHTED MEAN DOPPLER VELOCITY IN RAINFALL BY USING DUAL-POLARIZATION WEATHER RADAR OBSERVATIONS Abstract ID: 331 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 -	

Session 2		Aula Archeologia	Radar and society II Chairs: Paola Salio and Daniel Michelson
1	9:20 - 9:35	<p>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</p> <p>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</p>	Abstract ID: 346 -
2	9:35 - 9:50	<p>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</p> <p>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</p>	Abstract ID: 366 -
3	9:50 - 10:05	<p>THE ROLE OF WEATHER RADAR APPLICATIONS IN ENVIRONMENTAL IMPACT ASSESSMENTS 1) Nadja Weisshaupt*, 2) Pekka Alho</p> <p>1) Finnish Meteorological Institute, 2) Turku University of Applied Sciences</p>	Abstract ID: 22 Online
4	10:05 - 10:20	<p>COMPARING RADAR DATA AND PRECIPITATION GROUND TRUTH: WHERE CAN IOT SENSORS HELP? 1) Thomas Einfalt*, 2) Bruno Castro, 3) Annika Jahnke-Bornemann</p> <p>1) hydro & meteo GmbH, 2) hydro & meteo GmbH, 3) hydro & meteo GmbH</p>	Abstract ID: 298 -
5	10:20 - 10:35	<p>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</p> <p>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</p>	Abstract ID: 45 -
6	10:35 - 10:50	<p>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</p> <p>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</p>	Abstract ID: 379 -

Session 3		Aula Magna	Operational aspects III Chairs: Jana Houser and Gianfranco Vulpiani
1	14:15 - 14:30	<p>THE NEW CANADIAN WEATHER RADAR NETWORK - FROM PROJECT TO OPERATIONS 1) Qian Li*, 2) Sylvain Laramée, 3) Steven Brady, 4) Michael Romaniuk</p> <p>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</p>	Abstract ID: 30 -
2	14:30 - 14:45	<p>EUMETNET OPERA - IMPLEMENTATION OF NEW PRODUCTION LINES: PERFORMANCE AND DELIVERY OF OPERA RADAR PRODUCTS 1) Annakaisa von Lerber*, 2) Ludovic Bouilloud, 3) Günther Haase, 4) Petteri Karsisto, 5) Stefan Klink, 6) Ben Lankamp, 7) Hidde Leijnse, 8) Vera Meyer, 9) Petr Novak, 10) Shinju Park, 11) Milka Radojevic, 12) Polly Schmederer, 13) Klaus Stephan, 14) Lukas Tüchler</p> <p>1) Finnish Meteorological Institute - EUMETNET - OPERA, 2) Météo France, 3) Swedish Meteorological and Hydrological Institute, 4) Finnish Meteorological Institute, 5) The Deutscher Wetterdienst, 6) The Royal Netherlands Meteorological Institute, 7) The Royal Netherlands Meteorological Institute, 8) GeoSphere Austria, 9) Czech Hydrometeorological Institute, 10) Center of Applied Research in Hydrometeorology - Universitat Politècnica de Catalunya (UPC), 11) Météo France, 12) GeoSphere Austria, 13) The Deutscher Wetterdienst, 14) Austro Control</p>	Abstract ID: 229 -
3	14:45 - 15:00	<p>RADAR NETWORK DEPLOYMENT IN COMPLEX TERRAIN 1) Renzo Bechini*, 2) V. Chandrasekar, 3) Rob Cjelli, 4) Francesc Junyent</p> <p>1) Arpa Piemonte - Colorado State University - , 2) Colorado State University, 3) NOAA, 4) Colorado State University</p>	Abstract ID: 264 -
4	15:00 - 15:15	<p>MITIGATING RADIOFREQUENCY INTERFERENCE IMPACTING CANADA'S S-BAND WEATHER RADARS 1) Hamid Hamid</p> <p>1) Environment Canada - Environment Canada - Environment Canada</p>	Abstract ID: 212 -
5	15:15 - 15:30	<p>INCORPORATING X-BAND RADAR OBSERVATIONS INTO THE GERMAN C-BAND NETWORK 1) Nikolaos Antonoglou*, 2) Manuel Werner, 3) Ulrich Blahak, 4) Kathleen Helmert</p> <p>1) Deutscher Wetterdienst, 2) Deutscher Wetterdienst, 3) Deutscher Wetterdienst, 4) Deutscher Wetterdienst</p>	Abstract ID: 194 -

6	15:30	15:45	A WIND TURBINE CLUTTER MITIGATION SOLUTION FOR THE NEXRAD NETWORK 1) <i>Feng Nai*</i> , 2) <i>Sebastián Torres</i> 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 -	Abstract ID: 34 -
7	15:45	16:00	ROC/NSSL RADAR PRODUCT IMPROVEMENT: AN R2O 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 -	Abstract ID: 275 Online
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, III</i> , 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/AFMCMC/HBWA/OL-K	Abstract ID: 276 -

Session 4	Aula Archeologia	Radar hydrometeorological applications V QPE Chairs: <i>Hidde Leijnse</i> and <i>Andrea Antonini</i>			
	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	Abstract ID: 348 -
	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 Trömel</i> 1) University of Bonn, 2) University of Bonn, 3) NSSL NOAA - Oklahoma University - , 4) University of Bonn	Abstract ID: 145 -
	3	14:45	15:00	OPTIMIZED RADAR RELATIONS FOR SNOW ESTIMATION VIA GROUND-BASED PARAMETER RETRIEVALS 1) <i>Petar Bukovcic*</i> , 2) <i>Alexander Ryzhkov</i> , 3) <i>Dusan Zrnic</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	Abstract ID: 91 -
	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	Abstract ID: 230 -
	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 Tuftedal</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	Abstract ID: 281 -
	6	15:30	15:45	ADVANCED OPERATIONAL COMPOSITE FOR MULTI-FREQUENCY POLARIMETRIC WEATHER RADAR OBSERVATIONS IN COMPLEX TERRAIN: THE AOPI 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	Abstract ID: 278 -
	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 Toniazio</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	Abstract ID: 256 Online
	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	Abstract ID: 160 -

Session 5	Aula Magna	Radar hydrometeorological applications VI QPE Chairs: <i>Jordi Figueras i Ventura</i> and <i>Maria Laura Poletti</i>			
	1	16:45	17:00	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 -	Abstract ID: 21 -
	2	17:00	17:15	BLENDED 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	Abstract ID: 287 -
	3	17:15	17:30	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	Abstract ID: 179 -
	4	17:30	17:45	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 Leijnse</i> , 4) <i>Thomas Hengstebeck</i> 1) KNMI, 2) KNMI - TU-Delft - , 3) KNMI, 4) DWD	Abstract ID: 316 -

5	17:45	18:00	COMPARISON OF KDP ESTIMATION ALGORITHMS IN SUMMER RAINFALL OBSERVATIONS IN FINLAND 1) Miguel Aldana*, 2) Seppo Pulkkinen, 3) Annakaisa von Lerber, 4) Matthew Kumjian, 5) Dmitri Moisseev 1) Finnish Meteorological Institute - University of Helsinki - , 2) Finnish Meteorological Institute, 3) Finnish Meteorological Institute, 4) The Pennsylvania State University, 5) University of Helsinki	Abstract ID: 176 -
6	18:00	18:15	ASSESSING THE ADDED VALUE OF HIGH-RESOLUTION X BAND RADAR MEASUREMENTS FOR RAINFALL ESTIMATION IN WESTERN GERMANY. 1) Daniel Sanchez-Rivas*, 2) Silke Trömel 1) Department of Meteorology, Institute of Geosciences, University of Bonn, 2) Department of Meteorology, Institute of Geosciences, University of Bonn	Abstract ID: 308 -
7	18:15	18:30	A NEW MICRO-PHYSICAL INTERPRETATION OF THE Z-R RELATIONSHIP FOR OPERATIONAL QPE APPLICATIONS 1) Nan Yu 1) Centre de Météorologie Radar - Météo France	Abstract ID: 79 -

Session 6	Aula Archeologia	Space borne clouds and precipitation radar II Chairs: Brenda Dolan and Kaori Sato			
	1	16:45	17:00	AIRCRAFT OBSERVATIONS OF STRATOCUMULUS CLOUDS USING A W-BAND RADAR-RADIOMETER: PRELIMINARY RESULTS FOR THE WIVERN MISSION 1) Cuong Nguyen*, 2) Philip Gabriel, 3) Natalia Bliankinshtein, 4) Alessandro Battaglia, 5) Leonid Nichman, 6) Keyvan Ranjbar, 7) Kenny Bala, 8) Mengistu Wolde, 9) Pavlos Kollias, 10) Anthony Illingworth 1) Flight Research Laboratory, National Research Council Canada, Ottawa, Canada, 2) Horizon Science and Technology, Wolfville, NS, Canada, 3) Flight Research Laboratory, National Research Council Canada, Ottawa, Canada, 4) Department of Environment, Land and Infrastructure Engineering, Politecnico di Torino, Torino, Italy - Department of Physics and Astronomy, University of Leicester, Leicester, UK - National Centre for Earth Observation, Leicester, UK, 5) Flight Research Laboratory, National Research Council Canada, Ottawa, Canada, 6) Flight Research Laboratory, National Research Council Canada, Ottawa, Canada, 7) Flight Research Laboratory, National Research Council Canada, Ottawa, Canada, 8) Flight Research Laboratory, National Research Council Canada, Ottawa, Canada, 9) Division of Atmospheric Sciences, Stony Brook University, Stony Brook, NY, USA - Department of Environmental and Climate Sciences, Brookhaven National Laboratory, Upton, NY, USA - , 10) Department of Meteorology, University of Reading, Reading, UK	Abstract ID: 184 -
	2	17:00	17:15	ASSIMILATION OF DOPPLER FROM SPACE IN WRF MODEL: APPLICATION TO WIVERN RADAR FOR THE MEDICANE IANOS CASE STUDY 1) Stefano Federico*, 2) Rosa Claudia Torcasio, 3) Mario Montopoli, 4) Giulia Panegrossi, 5) Alessandro Battaglia, 6) Cinzia Cambiotti 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	Abstract ID: 144 -
	3	17:15	17:30	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	Abstract ID: 295 -
	4	17:30	17:45	ANALYZE GPM PRECIPITATION DATA WITHOUT GETTING SOAKED - HOW GPM-API HELPS YOU STAY DRY AND WISE 1) Gionata Ghiggi, 2) Alexis Berne* 1) École polytechnique fédérale de Lausanne, 2) École polytechnique fédérale de Lausanne	Abstract ID: 208 -
	5	17:45	18:00	EVALUATION OF ANGLE BIN DEPENDENCY OF PRECIPITATION PRODUCT OF DUAL FREQUENCY PRECIPITATION RADAR (DPR) ONBOARD GLOBAL PRECIPITATION MEASUREMENT (GPM) CORE OBSERVATORY 1) Nobuhiro Takahashi 1) Institute for Space-Earth Environmental Research, Nagoya University	Abstract ID: 70 -
	6	18:00	18:15	IMPROVEMENT OF LIQUID PARTICLE SIZE DISTRIBUTION RETRIEVAL FROM DUAL-PRECIPITATION RADAR MEASUREMENT USING A DEEP NEURAL NETWORK 1) Alfonso Ladino*, 2) Stephen Nesbitt, 3) Larry Di Girolamo, 4) Robert Rauber, 5) Greg McFarquhar, 6) Jesse Loveridge, 7) Rose Miller, 8) Paul Lawson 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	Abstract ID: 86 Award candidate

7	18:15 18:30	<p>COMPARISON BETWEEN DPR VERSION 7 AND DISDROMETERS OVER ITALY</p> <p>1) Sabina Angeloni*, 2) Elisa Adirosi, 3) Federico Porcù, 4) Mario Montopoli, 5) Luca Baldini, 6) Alessandro Bracci, 7) Vincenzo Capozzi, 8) Clizia Annella, 9) Giorgio Budillon, 10) Edoardo Bucchignani, 11) Alessandra Lucia Zollo, 12) Orietta Cazzuli, 13) Gian Paolo Minardi, 14) Renzo Bechini, 15) Roberto Cremonini, 16) Andrea Antonini, 17) Alberto Ortolani, 18) Samantha Melani, 19) Lorenzo Luini, 20) Roberto Nebuloni, 21) Vincenzo Rizi, 22) Paolo Valisa, 23) Simone Scapin, 24) Mauro Coltelli, 25) Giuseppe Giammello, 26) Giacomo Cavalli, 27) Roberto Pinna Nossai</p> <p>1) National Research Council, Institute of Atmospheric Science and Climate (CNR-ISAC), Rome, Italy, 2) National Research Council, Institute of Atmospheric Science and Climate (CNR-ISAC), Rome, Italy, 3) Department of Physics and Astronomy "Augusto Righi", University of Bologna, Bologna, Italy, 4) 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 - , 5) National Research Council, Institute of Atmospheric Science and Climate (CNR-ISAC), Rome, Italy, 6) National Research Council, Institute of Atmospheric Science and Climate (CNR-ISAC), Bologna, Italy, 7) Department of Science and Technology, University of Naples "Parthenope", Naples, Italy, 8) 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 Environmental Protection Agency of Lombardy (ARPA Lombardia), Milan, Italy, 13) Regional Environmental Protection Agency of Lombardy (ARPA Lombardia), Milan, Italy, 14) Regional Agency for the Protection of the Environment of Piemonte (ARPA Piemonte), Turin, Italy, 15) Regional Agency for the Protection of the Environment of Piemonte (ARPA Piemonte), Turin, Italy, 16) Laboratory of Environmental Monitoring and Modelling for the sustainable development (LaMMA), Sesto Fiorentino (Florence), Italy, 17) 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 - , 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) Politecnico di Milano, Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB), Milan, Italy, 20) National Research Council, Institute of Electronics, Computer and Telecommunication Engineering (CNR-IEIIT), Milan, Italy, 21) University of L'Aquila, Physical and Chemical Sciences (DSFC), L'Aquila, Italy, 22) Società Astronomica Schiaparelli, Centro Geofisico Prealpino, Varese, Italy, 23) Società Astronomica Schiaparelli, Centro Geofisico Prealpino, Varese, Italy, 24) National Institute of Geophysics and Volcanology (INGV), Osservatorio Etneo, Catania, Italy, 25) National Institute of Geophysics and Volcanology (INGV), Osservatorio Etneo, Catania, Italy, 26) Regional Agency for the Protection of the Environment of Sardegna (Arpa Sardegna), Sassari, Italy, 27) Regional Agency for the Protection of the Environment of Sardegna (Arpa Sardegna), Sassari, Italy</p>	Abstract ID: 368
8	18:30 18:45	<p>HYDROMETEOR PARTITIONING RATIOS FOR DUAL-FREQUENCY SPACE-BORNE AND POLARIMETRIC GROUND-BASED RADAR OBSERVATIONS</p> <p>1) Velibor Pejčić*, 2) Kamil Mroz, 3) Kai Mühlbauer, 4) Silke Trömel</p> <p>1) Institute for Geosciences, Department of Meteorology, University of Bonn, Bonn, Germany, 2) National Centre for Earth Observation, University of Leicester, Leicester, UK, 3) Institute for Geosciences, Department of Meteorology, University of Bonn, Bonn, Germany, 4) Institute for Geosciences, Department of Meteorology, University of Bonn, Bonn, Germany - Laboratory for clouds and Precipitation exploration, Geoverbund ABC/J, Bonn, Germany -</p>	Abstract ID: 241

Day	Friday, September 13, 2024			
Keynote	Aula Magna	Keynote: REFLECTIONS ON ATTENUATION: WHERE ARE WE 70 YEARS AFTER HITSCHFELD-BORDAN? Keynote Speaker: HIDDE LEIJNSE 1) <i>Hydride Leijnse*</i> , 2) <i>Iwan Holleman</i> , 3) <i>Remko Uijlenhoet</i> 1) Royal Netherlands Meteorological Institute (KNMI), 2) Radboud Universiteit Nijmegen, the Netherlands, 3) Delft University of Technology, the Netherlands		Abstract ID: 297
	8:45 9:15			
Session 1	Aula Magna	Weather radar and climate I Chairs: Scott Collis and Virginia Poli		
1	9:20 9:35	A CLIMATOLOGY OF HEAVY CONVECTIVE PRECIPITATION OVER EUROPE 1) <i>Kelly Lombardo*</i> , 2) <i>Miranda Bitting</i> 1) The Pennsylvania State University, 2) National Oceanic and Atmospheric Administration		Abstract ID: 78
2	9:35 9:50	MAPPING RAIN: NAVIGATING THE MAZE OF PRECIPITATION DATASETS ACROSS EUROPE 1) <i>Julian Alberto Giles*</i> , 2) <i>Suad Hammoudeh</i> , 3) <i>Klaus Goergen</i> , 4) <i>Silke Trömel</i> 1) Institute of Geosciences, Meteorology Section, University of Bonn, Germany, 2) Institute of Bio- and Geosciences (IBG-3, Agrosphere), Forschungszentrum Jülich, Jülich, Germany - Centre for High-Performance Scientific Computing in Terrestrial Systems, Geoverbund ABC/J, Jülich, Germany - 3) Institute of Bio- and Geosciences (IBG-3, Agrosphere), Forschungszentrum Jülich, Jülich, Germany - Centre for High-Performance Scientific Computing in Terrestrial Systems, Geoverbund ABC/J, Jülich, Germany - 4) Institute of Geosciences, Meteorology Section, University of Bonn, Germany		Abstract ID: 236
3	9:50 10:05	PROPERTIES OF CONVECTIVE AND STRATIFORM PRECIPITATION OVER THE US 1) <i>Ulrike Romatschke</i> , 2) <i>Mike Dixon*</i> 1) NSF National Center for Atmospheric Research, 2) NSF National Center for Atmospheric Research		Abstract ID: 189
4	10:05 10:20	A CLIMATOLOGICAL STUDY ON THE TWO TYPES OF BOW ECHOES OVER SOUTH CHINA 1) <i>Kun Zhao</i> , 2) <i>Ang Zhou*</i> 1) Nanjing University, 2) Nanjing University		Abstract ID: 245
5	10:20 10:35	EXPLORING PRECIPITATION INTENSITY-DURATION-AREA-FREQUENCY (IDAF) PATTERNS USING WEATHER RADAR DATA 1) <i>Talia Rosin*</i> , 2) <i>Francesco Marra</i> , 3) <i>Efrat Morin</i> 1) The Hebrew University of Jerusalem, 2) University of Padova, 3) The Hebrew University of Jerusalem		Abstract ID: 5
6	10:35 10:50	TORNADIC SUPERCELL STRUCTURES, BEST TORNADO STUDY, EXTENDED TORNADO CLIMATOLOGIES 1) <i>Joshua Wurman*</i> , 2) <i>Karen Kosiba</i> 1) Flexible Array of Radars and Mesonets (FARM) - University of Illinois - , 2) Flexible Array of Radars and Mesonets (FARM) - University of Illinois -		Abstract ID: 272
Session 2	Aula Archeologia	Clouds and precipitation physics VI Multi frequency Chairs: Heike Kalesse-Los and Dmitri Moisseev		
1	9:20 9:35	MULTI-WAVELENGTH RADAR RETRIEVALS IN WINTER STORMS 1) <i>Stephen Nesbitt*</i> , 2) <i>Kaitlyn Jesmonth</i> , 3) <i>Kaylee Heimes</i> , 4) <i>Randy Chase</i> , 5) <i>Robert Rauber</i> 1) University of Illinois Urbana-Champaign, 2) University of Illinois Urbana-Champaign, 3) University of Illinois Urbana-Champaign, 4) Colorado State University, 5) University of Illinois Urbana-Champaign		Abstract ID: 337
2	9:35 9:50	NOVEL MEASUREMENTS OF G-BAND DOPPLER SPECTRA IN ICE CLOUDS AND PRECIPITATION 1) <i>Karina McCusker</i> , 2) <i>Chris Westbrook*</i> , 3) <i>Alessandro Battaglia</i> , 4) <i>Kamil Mroz</i> , 5) <i>Ben Courtier</i> , 6) <i>Peter G. Huggard</i> , 7) <i>Hui Wang</i> , 8) <i>Christopher J. Walden</i> 1) University of Reading, 2) University of Reading, 3) Politecnico di Turin - University of Leicester - National Centre for Earth Observation, Leicester, 4) University of Leicester - National Centre for Earth Observation, Leicester - , 5) University of Leicester, 6) RAL Space, STFC Rutherford Appleton Laboratory, 7) RAL Space, STFC Rutherford Appleton Laboratory, 8) RAL Space, STFC Rutherford Appleton Laboratory - National Centre for Atmospheric Science, Leeds -		Abstract ID: 200
3	9:50 10:05	THE ROLE OF METEOROLOGICAL CONTROLS ON ARCTIC CLOUD AND PRECIPITATION PROPERTIES FROM RADAR-BASED RETRIEVALS: RESULTS FROM MOSAIC AND SHEBA 1) <i>Andrew Dzambo*</i> , 2) <i>Greg McFarquhar</i> , 3) <i>Matthew Shupe</i> 1) Cooperative Institute for Severe and High Impact Weather and Research Operations - University of Oklahoma - Norman - , 2) Cooperative Institute for Severe and High Impact Weather and Research Operations - School of Meteorology, University of Oklahoma - Norman - , 3) Cooperative Institute for Research in Environmental Sciences, University of Colorado - Boulder		Abstract ID: 355
4	10:05 10:20	GEOGRAPHICAL FINGERPRINTS ON SNOW GROWTH PROCESSES: A SURVEY FROM TROPICS 2 TO ANTARCTICA USING TRIPLE-FREQUENCY RADAR OBSERVATIONS 1) <i>Haoran Li*</i> , 2) <i>Qinghui Li</i> , 3) <i>Stefan Kneifel</i> , 4) <i>Leonie v. Terzi</i> , 5) <i>Zheng Ruan</i> , 6) <i>Liping Liu</i> , 7) <i>Yun Zhang</i> , 8) <i>Chunsheng Zhang</i> , 9) <i>Xuejin Sun</i> 1) Chinese Academy of Meteorological Sciences, 2) National University of Defense Technology, 3) University of Munich, 4) University of Munich, 5) Chinese Academy of Meteorological Sciences, 6) Chinese Academy of Meteorological Sciences, 7) National University of Defense Technology, 8) Shenzhen Observatory, 9) National University of Defense Technology		Abstract ID: 2
5	10:20 10:35	COMPARISON OF VERTICALLY POINTING KA-BAND AND C-BAND RADAR OBSERVATIONS FOR THE CHARACTERIZATION OF RIMING EVENTS 1) <i>Paul Ockenfuß*</i> , 2) <i>Mathias Gergely</i> , 3) <i>Stefan Kneifel</i> , 4) <i>Michael Frech</i> 1) Meteorologisches Institut, Ludwig-Maximilians-Universität München, Germany, 2) German Meteorological Service (Deutscher Wetterdienst, DWD), Observatorium Hohenpeißenberg, Hohenpeißenberg, Germany, 3) Meteorologisches Institut, Ludwig-Maximilians-Universität München, Germany, 4) German Meteorological Service (Deutscher Wetterdienst, DWD), Observatorium Hohenpeißenberg, Hohenpeißenberg, Germany		Abstract ID: 119

6	10:35	10:50	<p>ANALYSIS OF KA-W RADAR RETRIEVALS OF THE DSD FOR THE PARAMETERIZATION OF RAINDROP COLLECTION AND BREAKUP PROCESSES IN BULK MODELS</p> <p>1) <i>Laurence Niquet</i>, 2) <i>Frederic Tridon*</i>, 3) <i>Pierre Grzegorzcyk</i>, 4) <i>Antoine Causse</i>, 5) <i>Baptiste Bordet</i>, 6) <i>Wolfram Wobrock</i>, 7) <i>Celine Planche</i></p> <p>1) (1) Laboratoire de Météorologie Physique, Université Clermont Auvergne, INSU-CNRS UMR 6016, Clermont-Ferrand, France, 2) (2) DIATI, Politecnico di Torino, Turin, Italy, 3) (1) Laboratoire de Météorologie Physique, Université Clermont Auvergne, INSU-CNRS UMR 6016, Clermont-Ferrand, France, 4) (1) Laboratoire de Météorologie Physique, Université Clermont Auvergne, INSU-CNRS UMR 6016, Clermont-Ferrand, France, 5) (3) Laboratoire Interdisciplinaire de physique, Université Grenoble Alpes, INSU-CNRS UMR 5588, Grenoble, France, 6) (1) Laboratoire de Météorologie Physique, Université Clermont Auvergne, INSU-CNRS UMR 6016, Clermont-Ferrand, France, 7) (1) Laboratoire de Météorologie Physique, Université Clermont Auvergne, INSU-CNRS UMR 6016, Clermont-Ferrand, France</p>	Abstract ID: 347
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Session 3	Aula Magna	<p>Radar hydrometeorological applications VII QPE</p> <p>Chairs: Raquel Evaristo and Nicoletta Roberto</p>	
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1	11:20	11:35	<p>ASSESSMENT OF SEVERAL MACHINE LEARNING APPROACHES FOR OPERATIONAL RADAR QPE</p> <p>1) <i>Gianfranco Vulpiani*</i>, 2) <i>Matteo Guidi</i>, 3) <i>Francesco Bosso</i>, 4) <i>Emilio Guerriero</i></p> <p>1) Department of civil protection, 2) Leonardo S.p.a., 3) Leonardo S.p.a., 4) Leonardo S.p.a.</p>	Abstract ID: 303
2	11:35	11:50	<p>SPATIO-TEMPORALLY CORRELATED PROBABILISTIC QUANTITATIVE PRECIPITATION ESTIMATION (QPE) BASED ON A RANDOM FOREST APPROACH, ENSEMBLE COPULA COUPLING AND OPERATIONAL RADAR DATA</p> <p>1) <i>Rebecca Gugerli</i>, 2) <i>Loris Foresti</i>, 3) <i>Daniel Wolfensberger*</i>, 4) <i>Francesco Zanetta</i>, 5) <i>Daniele Nerini</i>, 6) <i>Marco Gabella</i>, 7) <i>Ioannis V. Sideris</i>, 8) <i>Urs Germann</i>, 9) <i>Alexis Berne</i></p> <p>1) Environmental Remote Sensing Laboratory, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland - Radar, Satellite and Nowcasting Division, Federal Office of Meteorology and Climatology MeteoSwiss, Switzerland - , 2) Radar, Satellite and Nowcasting Division, Federal Office of Meteorology and Climatology MeteoSwiss, Switzerland, 3) Radar, Satellite and Nowcasting Division, Federal Office of Meteorology and Climatology MeteoSwiss, Switzerland, 4) Institute for Atmospheric and Climate Science, Eidgenössische Technische Hochschule Zürich (ETHZ), Switzerland - Radar, Satellite and Nowcasting Division, Federal Office of Meteorology and Climatology MeteoSwiss, Switzerland - , 5) Radar, Satellite and Nowcasting Division, Federal Office of Meteorology and Climatology MeteoSwiss, Switzerland, 6) Radar, Satellite and Nowcasting Division, Federal Office of Meteorology and Climatology MeteoSwiss, Switzerland, 7) Radar, Satellite and Nowcasting Division, Federal Office of Meteorology and Climatology MeteoSwiss, Switzerland, 8) Radar, Satellite and Nowcasting Division, Federal Office of Meteorology and Climatology MeteoSwiss, Switzerland, 9) Environmental Remote Sensing Laboratory, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland</p>	Abstract ID: 199
3	11:50	12:05	<p>MACHINE LEARNING APPLICATION ON TUSCANY FOR RADAR-BASED QPE</p> <p>1) <i>Andrea Antonini*</i>, 2) <i>Samantha Melani</i>, 3) <i>Luca Fibbi</i>, 4) <i>Alessandro Mazza</i>, 5) <i>Alberto Orotolani</i></p> <p>1) LaMMA Consortium, 2) LaMMA Consortium - CNR-IBE - , 3) LaMMA Consortium - CNR-IBE - , 4) LaMMA Consortium - CNR-IBE - , 5) LaMMA Consortium - CNR-IBE -</p>	Abstract ID: 357
4	12:05	12:20	<p>TROPICAL RAINFALL NOWCASTING WITH COMMERCIAL MICROWAVE LINKS</p> <p>1) <i>Bas Walraven*</i>, 2) <i>Aart Overeem</i>, 3) <i>Ruben Imhoff</i>, 4) <i>Rolf Hut</i>, 5) <i>Luuk van der Valk</i>, 6) <i>Miriam Coenders</i>, 7) <i>Remko Uijlenhoet</i></p> <p>1) Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands, 2) R&D Observations and Data Technology, Royal Netherlands Meteorological Institute (KNMI), Utrechtseweg 297, 3731 GA De Bilt, The Netherlands - Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands - , 3) Deltares, Delft, the Netherlands, 4) Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands, 5) Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands, 6) Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands, 7) Department of Water Management, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands</p>	Abstract ID: 177
5	12:20	12:35	<p>COMPARING HYDROMETEOR CLASSIFICATION RETRIEVED FROM DUAL-POLARIZATION C-BAND DOPPLER WEATHER RADARS TO DUAL-POLARIZATION DOPPLER PROFILER OBSERVATIONS</p> <p>1) <i>Linda Bogerd*</i>, 2) <i>Hidde Leijnse</i>, 3) <i>Aart Overeem</i>, 4) <i>Remko Uijlenhoet</i>, 5) <i>Sibbo van der Veen</i></p> <p>1) Wageningen University and Research - Royal Netherlands Meteorological Institute - , 2) Royal Netherlands Meteorological Institute, 3) Royal Netherlands Meteorological Institute, 4) Delft University of Technology, 5) Royal Netherlands Meteorological Institute</p>	Abstract ID: 8

Session 4	Aula Archeologia	<p>Weather radar and climate II</p> <p>Chair: Miguel Angel Rico-Ramirez</p>	
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1	11:20	11:35	<p>A DETAILED CALIBRATION STUDY AND 10 YEAR CLIMATOLOGY OF QUASI-VERTICAL PROFILES IN STRATIFORM RAIN</p> <p>1) <i>Tobias Scharbach*</i>, 2) <i>Silke Trömel</i></p> <p>1) Institute for Geosciences, Department of Meteorology, University of Bonn, Bonn, Germany, 2) Institute for Geosciences, Department of Meteorology, University of Bonn, Bonn, Germany - Laboratory for Clouds and Precipitation Exploration, Geoverbund ABC/J, Bonn, Germany -</p>	Abstract ID: 124
2	11:35	11:50	<p>MERGING WITH CROWDSOURCED RAIN GAUGE DATA IMPROVES OPERA RADAR PRECIPITATION ACCUMULATIONS</p> <p>1) <i>Aart Overeem*</i>, 2) <i>Hidde Leijnse</i>, 3) <i>Gerard van der Schrier</i>, 4) <i>Else van den Besselaar</i>, 5) <i>Irene Garcia-Marti</i>, 6) <i>Lotte Wilhelmina de Vos</i></p> <p>1) R&D Observations and Data Technology, Royal Netherlands Meteorological Institute, 2) R&D Observations and Data Technology, Royal Netherlands Meteorological Institute, 3) R&D Observations and Data Technology, Royal Netherlands Meteorological Institute, 4) R&D Observations and Data Technology, Royal Netherlands Meteorological Institute, 5) R&D Observations and Data Technology, Royal Netherlands Meteorological Institute, 6) Observation Operations, Royal Netherlands Meteorological Institute</p>	Abstract ID: 107
3	11:50	12:05	<p>LATEST RESULTS OF INCLUDING ZDR COLUMN FOR ENHANCED RADAR DATA ASSIMILATION AT GERMAN WEATHER SERVICE (DWD)</p> <p>1) <i>Kobra Khosravi*</i>, 2) <i>Klaus Stephan</i>, 3) <i>Alberto De Lozar</i>, 4) <i>Jana Mendrok</i>, 5) <i>Ulrich Blahak</i></p> <p>1) German Weather Service (DWD), 2) German Weather Service (DWD), 3) German Weather Service (DWD), 4) German Weather Service (DWD), 5) German Weather Service (DWD)</p>	Abstract ID: 182

4	12:05 12:20	SUB-DAILY EXTREME PRECIPITATION TRENDS: NEW INSIGHTS FROM COMBINING RADAR DATA AND CONVECTION PERMITTING CLIMATE SIMULATIONS <i>1) Alrun Jasper-Tönnies*, 2) Jaya Kelvin, 3) Thomas Einfalt, 4) Christian Huebner, 5) Manfred Schütze</i> 1) hydro & meteo GmbH, 2) hydro & meteo GmbH, 3) hydro & meteo GmbH, 4) Institut für Automation und Kommunikation e. V., 5) Institut für Automation und Kommunikation e. V.	Abstract ID: 332
5	12:20 12:35	IMPROVEMENTS IN THE SNOWFALL SAMPLING DUE TO THE WIVERN CONICALLY SCANNING RADAR <i>1) Filippo Emilio Scarsi*, 2) Alessandro Battaglia, 3) Maximilian Maahn</i> 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) Leipzig Institute for Meteorology (LIM), Leipzig University, Leipzig, Germany	Abstract ID: 114
Aula Magna	12:35 13:00	Closing Cerimony Reflections on ERAD 2024, Student Awards, ERAD 2026	