Day	3	Wednesday, September 11, 2024, 11:20-13:05; Museo dell'arte classica

Radar and society

panel	1	**WSR-88D OBSERVATION OF BIRDS LEAVING ROOSTS BECAUSE OF EARTHQUAKES** *1) Pengfei Zhang, 2) Dusan Zrnic* 1) CIWRO, University of Oklahoma, USA - NSSL, NOAA, USA -, 2) NSSL, NOAA, USA	*Abstract ID: 211*
panel	2	**OUR STATIC, THEIR SIGNAL: CHALLENGES USING THE EUROPEAN RADAR NETWORK FOR AEROECOLOGY** *1) Hidde Leijnse, 2) Bart Hoekstra, 3) Bart Kranstauber, 4) Günther Haase, 5) Klaus Stephan, 6) Silke Bauer, 7) Peter Desmet, 8) Adriaan M Dokter, 9) Pieter Huybrechts, 10) Cecilia Nilsson, 11) Nadia Weisshaupt, 12) Judy Z Shamoun-Baranes* 1) R&D Observations and Data Technology, Royal Netherlands Meteorological Institute (KNMI), De Bilt, The Netherlands , 2) Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, The Netherlands , 3) Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, The Netherlands , 4) Swedish Meteorological and Hydrological Institute, Sweden , 5) Deutscher Wetterdienst, Data Assimilation Unit, Offenbach, Germany , 6) Federal Research Institute for Forest, Snow and Landscape (WSL), Birmensdorf, Switzerland , 7) Research Institute for Nature and Forest (INBO), Brussels, Belgium , 8) Cornell Lab of Ornithology, Cornell University, Ithaca, NY , 9) Research Institute for Nature and Forest (INBO), Brussels, Belgium , 10) Lund University, Lund, Sweden , 11) Finnish Meteorological Institute, Helsinki, Finland , 12) Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, The Netherlands	*Abstract ID: 215*
panel	3	**OPPORTUNISTIC BIRD MIGRATION DETECTION USING OPERATIONAL WEATHER RADAR NETWORK** *1) Prateek GULATI, 2) Benoit Usunier, 3) Pascal LAPEBIE , 4) Laurent Barthes, 5) Nicolas Viltard, 6) Cecile Mallet* 1) LATMOS - CNRS -, 2) Federation Nationale des Chasseurs , 3) Federation Nationale des Chasseurs , 4) LATMOS - UVSQ -, 5) LATMOS - CNRS -, 6) LATMOS - UVSQ -	*Abstract ID: 249*
panel	4	**RADAR-NEWS: A RADAR-BASED ALGORITHM ON SUPPORT OF THE NATIONAL EARLY WARNING SYSTEM** *1) Gianfranco Vulpiani, 2) Pietro Giordano, 3) Anna Fornasiero, 4) Virginia Poli, 5) Roberto Cremonini, 6) Luca Molini, 7) Emilio Guerriero* 1) Department of civil protection , 2) Department of civil protection , 3) ARPAE , 4) ARPAE - Agenzia ItaliaMeteo -, 5) ARPA Piemonte , 6) CIMA Research Foundation , 7) Leonardo S.p.a.	*Abstract ID: 306*
panel	5	**DETECTING SMOKE FROM FOREST FIRES IN THE AMAZON WITH AMAZONIAN WEATHER RADAR NETWORK** *1) Luiz Alves dos Santos Neto, 2) Ivan Saraiva, 3) Marcio Nirlando Gomes Lopes* 1) CENSIPAM , 2) CENSIPAM , 3) CENSIPAM	*Abstract ID: 335*

Clouds and precipitation physics

panel	6	**ANALYSIS OF STRATIFORM PRECIPITATION SYSTEMS BY MP-PAWR** *1) Nobuhiro Takahashi, 2) Kei Kao* 1) Institute of Space-Earth Environmental Research, Nagoya University , 2) Institute of Space-Earth Environmental Research, Nagoya University	*Abstract ID: 27*
panel	7	**IMPACT OF ASSIMILATING DIFFERENT TEMPERATURE VARIABLES ON MICROPHYSICAL PROCESSES IN CONVECTIVE AND STRATIFORM PRECIPITATION: A CASE STUDY OF FRONTAL SYSTEM IN TAHOPE IOP** *1) Chieh-Ying Ke, 2) Kao-Shen Chung* 1) Department of Atmospheric Sciences, National Central University , 2) Department of Atmospheric Sciences, National Central University	*Abstract ID: 39*
panel	8	**ON THE USE OF POLARIMETRIC DOPPLER SPECTRA TO INVESTIGATE THE BOUNDARY LAYER OF TORNADOES** *1) Howard Bluestein, 2) David Schvartzman, 3) Ameya Naik, 4) David Bodine, 5) MIn-Duan Tzeng, 6) Leah Swinney, 7) Boon-Leng Cheong, 8) Tian-You Yu, 9) Trey Greenwood* 1) School of Meteorology, University of Oklahoma , 2) School of Meteorology, University of Oklahoma - Advanced Radar Research Center -, 3) School of Meteorology, University of Oklahoma , 4) School of Meteorology, University of Oklahoma - Advanced Radar Research Center -, 5) Advanced Radar Research Center , 6) School of Meteorology, University of Oklahoma , 7) Advanced Radar Research Center , 8) Advanced Radar Research Center , 9) Extreme Tornado Tours	*Abstract ID: 40*

panel	9	**STORM CHARACTERISTICS BASED ON 5 YEARS OF MEASUREMENTS OF DOPPLER POLARIMETRIC VERTICAL CLOUD PROFILER** *1) Jana Popová, 2) Zbyněk Sokol, 3) Lucie Pacovská, 4) Stefano Federico, 5) Rosa Claudia Torcasio* 1) Institute of Atmospheric Physics, Czech Academy of Sciences - Faculty of Science, Charles University -, 2) Institute of Atmospheric Physics, Czech Academy of Sciences , 3) Faculty of Science, Charles University , 4) Institute of Atmospheric Sciences and Climate, National Research Council of Italy , 5) Institute of Atmospheric Sciences and Climate, National Research Council of Italy	*Abstract ID: 46*	
panel	10	**FIRST APPLICATIONS OF THE VIRGA-SNIFFER – A NEW TOOL TO IDENTIFY PRECIPITATION EVAPORATION USING GROUND-BASED REMOTE-SENSING OBSERVATIONS** *1) Heike Kalesse-Los, 2) Jonas Witthuhn, 3) Anton Kötsche, 4) Johannes Röttenbacher, 5) Andreas Foth, 6) Teresa Vogl* 1) Leipzig University , 2) Leipzig University - Leibniz Institute for Tropospheric Research -, 3) Leipzig University , 4) Leipzig University , 5) Leipzig University , 6) Leipzig University	*Abstract ID: 51*	
panel	11	**RADAR AND LIGHTNING CHARACTERISTICS OF TORNADIC STORMS IN CATALONIA** *1) Oriol Rodríguez, 2) Helen San Segundo, 3) Patricia Altube* 1) Servei Meteorològic de Catalunya , 2) Servei Meteorològic de Catalunya , 3) Servei Meteorològic de Catalunya	*Abstract ID: 56*	
panel	12	**MICROPHYSICAL STRUCTURES IN THE MELTING LAYER BASED ON IN-CLOUD AND GROUND-BASED PRECIPITATION PARTICLE IMAGING OBSERVATIONS** *1) Kenji Suzuki, 2) Yurika Hara, 3) Kazuya Takami* 1) Yamaguchi University, Japan , 2) Yamaguchi University, Japan , 3) Railway Technical Research Institute, Japan	*Abstract ID: 67*	
panel	13	**PROPOSAL FOR A NEW PRECIPITATION PARTICLE OBSERVATION METHOD USING THE RAINSCOPE AND THE UAV** *1) Shinya Mabuchi, 2) Kazuhiro Yoshimi* 1) Toyama Prefectural University , 2) Toyama Prefectural University	*Abstract ID: 68* **Award candidate**	
panel	14	**MICROPHYSICAL RETRIEVALS IN MIXED-PHASE CLOUDS WITH LOW LWP USING CLOUD RADAR** *1) Peiyuan Wang, 2) Christine Unal* 1) Delft University of Technology , 2) Delft University of Technology	*Abstract ID: 71*	
panel	15	**PATTERNS IN POLARIMETRIC X-BAND RADAR DATA CHARACTERIZING SEVERE HAIL EVOLUTION** *1) Katerina Skripnikova, 2) Zbynek Sokol* 1) Institute of Atmospheric Physics of the Czech Academy of Sciences , 2) Institute of Atmospheric Physics of the Czech Academy of Sciences	*Abstract ID: 76*	
panel	16	**DISCRIMINATING BETWEEN "DRIZZLE OR RAIN" AND SEA SALT AEROSOLS IN CLOUDNET FOR MEASUREMENTS OVER THE BARBADOS CLOUD OBSERVATORY** *1) Johanna Roschke, 2) Jonas Witthuhn, 3) Marcus Klingebiel, 4) Moritz Haarig, 5) Andreas Foth, 6) Anton Kötsche, 7) Heike Kalesse-Los* 1) Leipzig University , 2) Leipzig University - Leibniz Institute for Tropospheric Research -, 3) Leipzig University , 4) Leibniz Institute for Tropospheric Research , 5) Leipzig University , 6) Leipzig University , 7) Leipzig University	*Abstract ID: 77*	
panel	17	**CHARACTERIZATION OF MICROPHYSICAL AND DYNAMICAL PROCESSES FOR MESOSCALE CONVECTIVE SYSTEMS FROM DUAL-POLARIMETRIC RADAR NETWORKS** *1) Jeong-Eun Lee, 2) GyuWon Lee* 1) BK21 Weather Extremes Education & Research Team, Department of Atmospheric Sciences, Center for Atmospheric REmote sensing (CARE), Kyungpook National University, Republic of Korea , 2) BK21 Weather Extremes Education & Research Team, Department of Atmospheric Sciences, Center for Atmospheric REmote sensing (CARE), Kyungpook National University, Republic of Korea	*Abstract ID: 95*	
panel	18	**NON-PARAMETRIC RETRIEVAL OF DROP-SIZE DISTRIBUTION PROFILES BASED ON CLOUD RADAR SPECTRAL POLARIMETRY** *1) Tatiana Nomokonova, 2) Alexander Myagkov, 3) Michael Frech* 1) RPG Radiometer Physics GmbH, Meckenheim, Germany , 2) RPG Radiometer Physics GmbH, Meckenheim, Germany , 3) Meteorological Observatory Hohenpeißenberg, German Weather Service (DWD), Germany	*Abstract ID: 108*	
panel	19	**OBSERVATIONAL STUDY OF TOPOGRAPHIC EFFECTS OF SNOW CLOUDS** *1) Kazuya Takami, 2) Kenji Suzuki* 1) Railway Technical Research Institute , 2) Yamaguchi University	*Abstract ID: 109*	
panel	20	**CLOUDSAT AND A-TRAIN WARM RAIN CHARACTERIZATION** *1) Susmitha Sasikumar, 2) Alessandro Battaglia, 3) Pavlos Kollias* 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	*Abstract ID: 115*	

panel	21	**RETRIEVAL OF SNOW WATER EQUIVALENT FROM THIES LASER DISDROMETER IN THE SOUTHERN ITALY APENNINES** *1) Vincenzo Capozzi, 2) Lauro D'Esposito, 3) Clizia Annella, 4) Giannetta Fusco, 5) Giorgio Budillon* 1) Department of Science and Technology, University of Naples "Parthenope" , 2) Department of Science and Technology, University of Naples "Parthenope" , 3) 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" -, 4) Department of Science and Technology, University of Naples "Parthenope" , 5) Department of Science and Technology, University of Naples "Parthenope"	*Abstract ID: 125*
panel	22	**RADAR TESTS FOR THE AWACA CAMPAIGN** *1) Heather Corden, 2) Jacopo Grazioli, 3) Michael Monnet, 4) Alexis Berne* 1) Environmental Remote Sensing Laboratory, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland , 2) Environmental Remote Sensing Laboratory, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland , 3) Environmental Remote Sensing Laboratory, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland , 4) Environmental Remote Sensing Laboratory, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland	*Abstract ID: 135* **Award candidate**
panel	23	**EVALUATION OF TWO MICROPHYSICS SCHEMES IN THE AROME MODEL USING AN OBJECT-BASED APPROACH APPLIED ON DUAL-POLARISATION RADAR DATA.** *1) Cloé David, 2) Clotilde Augros, 3) Benoit Vie, 4) François Bouttier* 1) National Centre for Meteorological Research (CNRM) - Météo-France - Université Toulouse III, 2) National Centre for Meteorological Research (CNRM) - Météo-France -, 3) National Centre for Meteorological Research (CNRM) - Météo-France -, 4) National Centre for Meteorological Research (CNRM) - Météo-France -	*Abstract ID: 139*
panel	24	**UNRAVELLING THE MICROPHYSICAL CHARACTERISTICS OF EXTREME RAINFALL OVER TROPICAL STATIONS USING X-BAND DUAL-POLARIZATION RADAR OBSERVATION** *1) Kumar Abhijeet, 2) T. N. Rao, 3) Rama Rao Nidamanuri* 1) Indian Institute of Space Science and Technology, Thiruananthapuram, Kerala - National Atmospheric Research Laboratory, Gadanki - Indian Institute Tropical Meteorology, Pune, 2) National Atmospheric Research Laboratory, Gadanki , 3) Indian Institute of Space Science and Technology, Thiruananthapuram, Kerala	*Abstract ID: 148*
panel	25	**PRECIPITATION INITIALIZATION IN THE WEATHER MODEL HARMONIE APPLYING A HYDROMETEOR CLASSIFICATION SCHEME** *1) Sibbo van der Veen, 2) Hidde Leijnse, 3) Aart Overeem, 4) Linda Bogerd, 5) Christine Unal* 1) Royal Netherlands Meteorological Institute (KNMI) , 2) Royal Netherlands Meteorological Institute (KNMI) , 3) Royal Netherlands Meteorological Institute (KNMI) , 4) Wageningen University and Research - Royal Netherlands Meteorological Institute (KNMI) -, 5) Delft University of Technology	*Abstract ID: 155*
panel	26	**POLARIMETRIC RADAR OBSERVATIONS OF A TORNADIC SUPERCELL IN JERSEY, CHANNEL ISLANDS, ON 1 – 2 NOVEMBER 2023** *1) Matt Clark, 2) Steven Best* 1) Met Office , 2) Met Office	*Abstract ID: 171*
panel	27	**HUMIDITY PROFILES AND ARCTIC MIXED-PHASE CLOUDS AS SEEN BY AIRBORNE G- AND W-BAND RADARS (HAMAG)** *1) Linnea Bühler, 2) Mario Mech, 3) Sabrina Schnitt, 4) Thomas Rose, 5) Jens Goliasch, 6) Nils Risse, 7) Pavel Krobot, 8) Susanne Crewell* 1) University of Cologne , 2) University of Cologne , 3) University of Cologne , 4) Radiometer Physics GmbH , 5) Radiometer Physics GmbH , 6) University of Cologne , 7) University of Cologne , 8) University of Cologne	*Abstract ID: 174*
panel	28	**AN INVESTIGATION ON MICROPHYSICAL CHARACTERISTICS OF HEAVY RAINFALL EVENTS OVER TAIWAN** *1) Jayalakshmi Janapati , 2) Balaji Seela, 3) Pay-Liam Lin* 1) Department of Atmospheric Sciences, National Central University - Institute of Atmospheric Physics, National Central University -, 2) Department of Atmospheric Sciences, National Central University - Institute of Atmospheric Physics, National Central University - Academia Sinica, Taiwan, 3) Department of Atmospheric Sciences, National Central University - Earthquake-Disaster and Risk Evaluation and Management Center, National Central University - Research Center for Hazard Mitigation and Prevention, National Central University	*Abstract ID: 185*
panel	29	**A STATISTICAL EVALUATION OF CONVECTIVE CLOUD SYSTEMS IN A NUMERICAL WEATHER PREDICTION MODEL WITH POLARIMETRIC RADAR OBSERVATIONS** *1) Gregor Köcher, 2) Tobias Zinner, 3) Christian Heske, 4) Florian Ewald* 1) Meteorologisches Institut, Ludwig-Maximilians-Universität, Munich, Germany , 2) Meteorologisches Institut, Ludwig-Maximilians-Universität, Munich, Germany , 3) Deutsches Zentrum für Luft- und Raumfahrt (DLR), Institut für Physik der Atmosphäre, Oberpfaffenhofen, Germany , 4) Deutsches Zentrum für Luft- und Raumfahrt (DLR), Institut für Physik der Atmosphäre, Oberpfaffenhofen, Germany	*Abstract ID: 186*

panel 30	**LIGHTNING ACTIVITY OVER THE CZECHIA FROM THE PERSPECTIVE OF GROUND-BASED DETECTION NETWORKS** *1) Lucie Pacovská, 2) Jana Popová* 1) Faculty of Science, Charles University , 2) Faculty of Science, Charles University - Institute of Atmospheric Physics, Czech Academy of Sciences -	*Abstract ID: 191*
panel 31	**DETERMINATION OF LOW-LEVEL TEMPERATURE PROFILES FROM MICROWAVE RADIOMETER OBSERVATIONS DURING RAIN** *1) Andreas Foth, 2) Moritz Lochmann, 3) Pablo Saavedra Garfias, 4) Heike Kalesse-Los* 1) Leipzig Institute for Meteorology, Leipzig University, Leipzig, 04103, Germany , 2) Leipzig Institute for Meteorology, Leipzig University, Leipzig, 04103, Germany , 3) Leipzig Institute for Meteorology, Leipzig University, Leipzig, 04103, Germany , 4) Leipzig Institute for Meteorology, Leipzig University, Leipzig, 04103, Germany	*Abstract ID: 197*
panel 32	**A NEW HIGH-RESOLUTION STEREO IMAGER TO MEASURE THE SHAPE OF RAINDROPS AND OTHER HYDROMETEORS** *1) Veronica Escobar-Ruiz, 2) Chris Westbrook* 1) Department of Meteorology, University of Reading , 2) Department of Meteorology, University of Reading	*Abstract ID: 201*
panel 33	**LIGHTNING FORECAST IMPROVEMENT THROUGH LIGHTNING DATA ASSIMILATION. RESULTS FOR A TWO-SEASONS PERIOD OVER ITALY USING THE WRF MODEL.** *1) Stefano Federico, 2) Rosa Claudia Torcasio, 3) Jana Popova, 4) Zbyněk Sokol, 5) Lukas Pop, 6) Lucie Pacovská, 7) Stefano Dietrich* 1) National Research Council of Italy—Institute of Atmospheric Sciences and Climate (CNR-ISAC), via del Fosso del Cavaliere 100, 00133 Rome, Italy , 2) National Research Council of Italy—Institute of Atmospheric Sciences and Climate (CNR-ISAC), via del Fosso del Cavaliere 100, 00133 Rome, Italy , 3) Institute of Atmospheric Physics, Czech Academy of Sciences, Boční II 1401, 141 00 Prague, Czech Republic - Faculty of Science, Charles University, Albertov 6, 128 00 Prague, Czech Republic -, 4) Institute of Atmospheric Physics, Czech Academy of Sciences, Boční II 1401, 141 00 Prague, Czech Republic - Faculty of Science, Charles University, Albertov 6, 128 00 Prague, Czech Republic -, 5) Institute of Atmospheric Physics, Czech Academy of Sciences, Boční II 1401, 141 00 Prague, Czech Republic , 6) Faculty of Science, Charles University, Albertov 6, 128 00 Prague, Czech Republic , 7) National Research Council of Italy—Institute of Atmospheric Sciences and Climate (CNR-ISAC), via del Fosso del Cavaliere 100, 00133 Rome, Italy	*Abstract ID: 210*
panel 34	**RETRIEVAL OF THE HAIL SIZE NUMBER DISTRIBUTION FROM POLARIMETRIC C-BAND WEATHER RADAR USING DOUBLE-MOMENT NORMALIZATION** *1) Matteo Guidicelli, 2) Alfonso Ferrone, 3) Gionata Ghiggi, 4) Marco Gabella, 5) Urs Germann, 6) Alexis Berne* 1) Environmental Remote Sensing Laboratory, Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland - Federal Office of Meteorology and Climatology MeteoSwiss, Locarno-Monti, Switzerland -, 2) Hydro-Meteo-Climate Structure, Regional Agency for Prevention, Environment and Energy of Emilia-Romagna, Bologna, Italy , 3) Environmental Remote Sensing Laboratory, Ecole Polytechnique Fédérale de Lausanne, Lausanne, 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, Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland	*Abstract ID: 223*
panel 35	**CONVERGING THE ICON 2-MOMENT MICROPHYSICS TO OBSERVATIONS: EVALUATION IN POLARIMETRIC RADAR OBSERVATION SPACE** *1) Jana Mendrok, 2) Alberto de Lozar, 3) Julian Steinheuer, 4) Velibor Pejcic, 5) Tobias Scharbach, 6) Silke Trömel, 7) Ulrich Blahak* 1) Deutscher Wetterdienst, Offenbach, Germany , 2) Deutscher Wetterdienst, Offenbach, Germany , 3) University of Bonn, Bonn, Germany , 4) University of Bonn, Bonn, Germany , 5) University of Bonn, Bonn, Germany , 6) University of Bonn, Bonn, Germany , 7) Deutscher Wetterdienst, Offenbach, Germany	*Abstract ID: 231*
panel 36	**A CLIMATOLOGICAL STUDY ON THE MERGER-FORMATION BOW ECHOES IN CHINA** *1) Ang Zhou, 2) Kun Zhao, 3) Xin Xu* 1) Nanjing University , 2) Nanjing University , 3) Nanjing University	*Abstract ID: 246*
panel 37	**EXPERIENCE WITH CLOUD ELECTRIFICATION ADDED TO THE ICON MODEL** *1) Zbyněk Sokol, 2) Jana Popová, 3) Lucie Pacovská* 1) Institute of Atmospheric Physics of the Czech Academy of Sciences , 2) Institute of Atmospheric Physics of the Czech Academy of Sciences - Faculty of Science, Charles University, Prague, Czech Republic -, 3) Faculty of Science, Charles University, Prague, Czech Republic	*Abstract ID: 19*
panel 38	**THE FLEXIBLE ARRAY OF RADARS AND MESONETS (FARM)** *1) Joshua Wurman, 2) Karen Kosiba* 1) Flexible Array of Radars and Mesonets (FARM) - University of Illinois -, 2) Flexible Array of Radars and Mesonets (FARM) - University of Illinois -	*Abstract ID: 273*

panel 39	**PROPAGATION AND EVOLUTION OF ROTATION IN LINEAR SYSTEMS (PERILS) : ATTRICUTES OF TORNADIC AND NON-TORNADIC VORTICES**	*Abstract ID: 274*
	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 -	

panel 40	**WINDS AND STRUCTURES IN HURRICANE BOUNDARY LAYERS EXPERIMENT (WASHABLE)**	*Abstract ID: 277*
	1) Joshua Wurman, 2) Karen Kosiba	
	1) Flexible Array of Radars and Mesonets (FARM) - University of Illinois -, 2) Flexible Array of Radars and Mesonets (FARM) - University of Illinois -	

panel 41	**THE COLORADO STATE UNIVERSITY SEA-GOING AND LAND DEPLOYABLE POLARIMETRIC (SEA-POL) RADAR**	*Abstract ID: 280*
	1) Michael Bell, 2) V. Chandrasekar, 3) Steven Rutledge, 4) Brenda Dolan, 5) Jennifer DeHart, 6) Jim George, 7) Francesc Junyent	
	1) Colorado State University , 2) Colorado State University , 3) Colorado State University , 4) Colorado State University , 5) Colorado State University , 6) Colorado State University , 7) Colorado State University	

panel 42	**OVERVIEW OF THE "ANALYSIS OF OROGRAPHIC IMPACTS ON PRECIPITATION MICROPHYSICS AND SATELLITE-DERIVED ESTIMATES" (ARTEMIS) FIELD CAMPAIGN IN THE EASTERN PYRENEES**	*Abstract ID: 313*
	1) Joan Bech, 2) Mireia Udina, 3) Francesc Polls, 4) Eric Peinó, 5) Eulàlia Busquets, 6) Albert García-Benadí, 7) Patricia Altube, 8) Enric Casellas, 9) Jordi Mercader, 10) Alexandre Paci, 11) Sergi Gonzalez, 12) Laura Trapero	
	1) Dept. Applied physics - Meteorology, Universitat de Barcelona, Barcelona, Spain - Water Research Institute, Universitat de Barcelona, Barcelona, Spain -, 2) Dept. Applied physics - Meteorology, Universitat de Barcelona, Barcelona, 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) UTG Campus de Vilanova i la Geltrú, Universitat Politècnica de Catalunya, Spain , 7) Meteorological Service of Catalonia, Barcelona, Spain , 8) Meteorological Service of Catalonia, Barcelona, Spain , 9) Meteorological Service of Catalonia, Barcelona, Spain , 10) CNRM, Université de Toulouse, Météo-France, CNRS, Toulouse, France , 11) WSL-Institut für Schnee- und Lawinenforschung SLF, Davos, Switzerland , 12) Andorra Recerca + Innovació, Sant Julià de Lòria, Andorra	

panel 43	**VARIABILITY OF MESOSCALE CLOUD AND PRECIPITATION STRUCTURES DURING NEAR-FREEZING SURFACE CONDITIONS USING GROUND-BASED RADAR OBSERVATIONS FROM WINTRE-MIX**	*Abstract ID: 318*
	1) Katja Friedrich, 2) Justin Minder , 3) Josh Wurman, 4) Karen Kosiba, 5) Jeff French, 6) David Kingsmill, 7) Andrew Winters , 8) Nicholas Bassill, 9) Julie Theriault, 10) John Gyakum	
	1) University of Colorado Boulder , 2) University at Albany , 3) FARM - University of Illinois -, 4) FARM - University of Illinois -, 5) University of Wyoming , 6) University of Colorado Boulder , 7) University of Colorado Boulder , 8) University at Albany , 9) Université du Québec à Montréal , 10) McGill University	

panel 44	**COMPARATIVE ANALYSIS OF TWO ALGORITHMS FOR ESTIMATING LARGE HAIL OCCURRENCE USING RADAR DATA**	*Abstract ID: 328*
	1) Valentina Campana, 2) Anna Fornasiero, 3) Roberto Cremonini, 4) Pier Paolo Alberoni, 5) Gianfranco Vulpiani	
	1) ARPA Piemonte, Dipartimento rischi naturali e ambientali , 2) Arpae Emilia-Romagna, Struttura Idro-Meteo-Clima , 3) ARPA Piemonte, Dipartimento rischi naturali e ambientali , 4) Arpae Emilia-Romagna, Struttura Idro-Meteo-Clima , 5) Dipartimento di Protezione Civile Nazionale	

panel 45	**RAPID-SCAN POLARIMETRIC RADAR OBSERVATIONS OF A SEVERE DOWNSLOPE WIND STORM DURING CACTI**	*Abstract ID: 339*
	1) Kelly Lombardo, 2) Matthew Kumjian, 3) Fan Wu	
	1) Department of Meteorology & Atmospheric Science, The Pennsylvania State University , 2) Department of Meteorology & Atmospheric Science, The Pennsylvania State University , 3) Department of Meteorology & Atmospheric Science, The Pennsylvania State University	

panel 46	**COMBINING IN-SITU AND CLOUD RADAR OBSERVATIONS TO QUANTIFY RIMING**	*Abstract ID: 350*
	1) Nils Pfeifer	
	1) Leipzig Institute for Meteorology, Leipzig University, Leipzig, Germany	

panel 47	**DYNAMICS AND INTERNAL STRUCTURE OF THUNDERSTORMS IN SWITZERLAND FROM A DUAL-DOPPLER RADAR PERSPECTIVE**	*Abstract ID: 360*
	1) Martin Lainer, 2) Daniel Wolfensberger, 3) Rebecca Gugerli, 4) Samuel Monhart, 5) Urs Germann	
	1) Federal Office of Climatology and Meteorology MeteoSwiss , 2) Federal Office of Climatology and Meteorology MeteoSwiss , 3) Federal Office of Climatology and Meteorology MeteoSwiss , 4) Federal Office of Climatology and Meteorology MeteoSwiss , 5) Federal Office of Climatology and Meteorology MeteoSwiss	

panel 48	**INVESTIGATING THE RELATIONSHIPS BETWEEN ROTATION AND HEAVY RAINFALL ALONG THE MEI-YU FRONT DURING PRECIP 2022** *1) Jennifer DeHart, 2) Michael Bell, 3) Tyler Barbero* 1) Colorado State University , 2) Colorado State University , 3) Colorado State University	*Abstract ID: 369*
panel 49	**FLUX OBSERVATIONS FOR PROCESS-INFORMED QUANTITATIVE PRECIPITATION ESTIMATES** *1) Aimee Matland-Dixon, 2) Pierre Kirstetter, 3) Robert Palmer, 4) Jacob Carlin, 5) Alexander Ryzhkov* 1) Advanced Radar Research Center at the University of Oklahoma - School of Meteorology at the University of Oklahoma -, 2) Advanced Radar Research Center at the University of Oklahoma - School of Meteorology at the University of Oklahoma - NOAA National Severe Storms Laboratory, 3) Advanced Radar Research Center at the University of Oklahoma , 4) The Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO) - NOAA National Severe Storms Laboratory -, 5) The Cooperative Institute for Severe and High-Impact Weather Research and Operations (CIWRO) - NOAA National Severe Storms Laboratory -	*Abstract ID: 381*
panel 50	**CLASSIFICATION OF PRECIPITATING ICE PARTICLES BY COMBINING MRR AND DISDROMETER MEASUREMENTS DURING FIVE YEARS OF ANTARCTIC COASTAL PRECIPITATION** *1) Giacomo Roversi, 2) Alessandro Bracci, 3) Elisa Adirosi, 4) Sabina Angeloni, 5) Mario Montopoli, 6) Luca Baldini, 7) Federico Porcù* 1) Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University, Venice, Italy - National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy -, 2) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Bologna, Italy , 3) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy , 4) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy , 5) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy , 6) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy , 7) Department of Physics and Astronomy "Augusto Righi", University of Bologna, Bologna, Italy	*Abstract ID: 383*
panel 51	**A PRACTICAL MODEL TO DETERMINE THE RADAR CROSS SECTION OF RANDOMLY SHAPED RAIN DROPS BASED ON SELECTED SIZE PARAMETERS** *1) Franz Teschl, 2) Reinhard Teschl* 1) Graz University of Technology , 2) Graz University of Technology	*Abstract ID: 384*
panel 52	**IMPACT OF OROGRAPHY AND WIND DYNAMICS ON PRECIPITATION DISTRIBUTION DURING CYCLONIC EVENT: A CASE STUDY OF CYCLONE BATSIRAI IN LA REUNION ISLAND** *1) Ambinintsoa Volatiana Ramanamahefa, 2) Thiruvengadam Padmanabhan, 3) Clement Soufflet, 4) Guillaume Lesage, 5) Joel Van Baelen* 1) Laboratoire de l'Atmosphère et des Cyclones LACY, UMR 8105 CNRS, Meteo France, Université de La Réunion, 97400 Saint-Denis, France , 2) School of Meteorology, University of Oklahoma, Norman, Oklahoma, United State - Laboratoire de l'Atmosphère et des Cyclones LACY, UMR 8105 CNRS, Meteo France, Université de La Réunion, 97400 Saint-Denis, France -, 3) Laboratoire de l'Atmosphère et des Cyclones LACY, UMR 8105 CNRS, Meteo France, Université de La Réunion, 97400 Saint-Denis, France , 4) Laboratoire de l'Atmosphère et des Cyclones LACY, UMR 8105 CNRS, Meteo France, Université de La Réunion, 97400 Saint-Denis, France , 5) Laboratoire de l'Atmosphère et des Cyclones LACY, UMR 8105 CNRS, Meteo France, Université de La Réunion, 97400 Saint-Denis, France	*Abstract ID: 6* **Award candidate**
panel 53	**DEPENDENCE OF RADAR/LIDAR DERIVED CLOUD PROPERTIES ON ENVIRONMENTAL CONDITIONS OVER THE NORTH ATLANTIC AND SOUTHERN OCEAN** *1) Greg McFarquhar, 2) Zeqian Xia* 1) University of Oklahoma , 2) University of Oklahoma	*Abstract ID: 1*
panel 54	**USING VISSS AND CLOUD RADAR OBSERVATIONS TO CHARACTERIZE SECONDARY ICE PRODUCTION EVENTS** *1) Haoran Li, 2) Maximilian Maahn* 1) Chinese Academy of Meteorological Sciences - Leipzig University -, 2) Leipzig University	*Abstract ID: 3*
panel 55	**ZDR BACKWARDS ARC: RADAR EVIDENCE OF MULTI-DIRECTIONAL SIZE SORTING IN THE STORM PRODUCING 201.9 MM HOURLY RAINFALL ON 20 JULY 2021 IN ZHENGZHOU, CHINA** *1) Haoran Li, 2) Jinfang Yin, 3) Matt Kumjian, 4) Bo Liu* 1) Chinese Academy Of Meteorological Sciences , 2) Chinese Academy Of Meteorological Sciences , 3) PSU , 4) School of Atmospheric Physics, Nanjing University of Information Science and Technology, Nanjing, China - State Key Laboratory of Severe Weather, Chinese Academy of Meteorological Sciences, Beijing, China	*Abstract ID: 4*

panel	56	**T-MATRIX SIMULATIONS OF SPECTRAL POLARIMETRIC VARIABLES FROM A CLOUD-RADAR** *1) Ioanna Tsikoudi, 2) Alessandro Battaglia, 3) Christine Unal, 4) Kalliopi Artemis Voudouri, 5) Eleni Marinou* 1) Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing, National Observatory of Athens - Department of Physics, Section of Environmental Physics-Meteorology, University of Athens, Athens, Greece -, 2) Department of Environment, Land and Infrastructure Engineering, Politecnico di Torino, Torino, Italy , 3) Department of Geoscience and Remote Sensing, Delft University of Technology, Delft, the Netherlands , 4) Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing, National Observatory of Athens; 5) Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing, National Observatory of Athens, Athens, Greece, Department of Physics and Aristotle University of Thessaloniki, Thessaloniki, Greece	*Abstract ID: 7* **Award candidate**
panel	57	**AN OVERVIEW OF THE WESCON-WOEST FIELD CAMPAIGN IN SOUTHERN ENGLAND IN SUMMER 2023** *1) Lindsay J. Bennett, 2) Ryan R. Neely III, 3) Thorwald Stein, 4) Chris Walden* 1) National Centre for Atmospheric Science - University of Leeds -, 2) National Centre for Atmospheric Science - University of Leeds -, 3) University of Reading , 4) National Centre for Atmospheric Science - Science and Technology Facilities Council -	*Abstract ID: 253* **Online**
panel	58	**RAINFALL RATE OBSERVATIONS FROM SPACE BORNE W-BAND RADARS - TECHNIQUES AND CHALLENGES** *1) Robert Thompson, 2) Anthony Illingworth* 1) University of Reading , 2) University of Reading	*Abstract ID: 53*

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panel	59	**THE STATUS AND TESTING RESULTS OF THE FENGYUN-3G PRECIPITATION MEASUREMENT RADAR IN COMMISSION PHASE** *1) Honggang Yin, 2) Qiong Wu* 1) National Satellite Meteorological Center (National Center for Space Weather), China Meteorological Administration - the Key Laboratory of Radiometric Calibration and Validation for Environmental Satellites - Innovation Center for FengYun Meteorological Satellite, 2) National Satellite Meteorological Center (National Center for Space Weather), China Meteorological Administration - the Key Laboratory of Radiometric Calibration and Validation for Environmental Satellites - Innovation Center for FengYun Meteorological Satellite	*Abstract ID: 64*
panel	60	**A FREQUENCY CORRECTION ALGORITHM FOR SPACEBORNE PRECIPITATION MEASUREMENT RADAR AND GROUND-BASED WEATHER RADAR** *1) Qiong Wu, 2) Lin Chen, 3) Honggang Yin* 1) National Satellite Meteorological Center (National Center for Space Weather), China Meteorological Administration - the Key Laboratory of Radiometric Calibration and Validation for Environmental Satellites - Innovation Center for FengYun Meteorological Satellite, 2) National Satellite Meteorological Center (National Center for Space Weather), China Meteorological Administration - the Key Laboratory of Radiometric Calibration and Validation for Environmental Satellites - Innovation Center for FengYun Meteorological Satellite, 3) National Satellite Meteorological Center (National Center for Space Weather), China Meteorological Administration - the Key Laboratory of Radiometric Calibration and Validation for Environmental Satellites - Innovation Center for FengYun Meteorological Satellite	*Abstract ID: 65*
panel	61	**SEA SURFACE AND SNOWFLAKES AS NATURAL TARGETS CONNECTING FY-3G AND GPM-CO DUAL-FREQUENCY RADARS** *1) Bo Liu, 2) Haoran Li, 3) Liping Liu, 4) Jian Shang, 5) Honggang Yin, 6) Kwo-Sen Kuo* 1) School of Atmospheric Physics, Nanjing University of Information Science and Technology, Nanjing, China - State Key Laboratory of Severe Weather, Chinese Academy of Meteorological Sciences, Beijing, China -, 2) State Key Laboratory of Severe Weather, Chinese Academy of Meteorological Sciences, Beijing, China , 3) State Key Laboratory of Severe Weather, Chinese Academy of Meteorological Sciences, Beijing, China , 4) National Satellite Meteorological Center (National Centre for Space Weather), Beijing, China - Innovation Center for FengYun Meteorological Satellite (FYSIC), Beijing, China - Key Laboratory of Radiometric Calibration and Validation for Environmental Satellites, Beijing, China, 5) National Satellite Meteorological Center (National Centre for Space Weather), Beijing, China - Innovation Center for FengYun Meteorological Satellite (FYSIC), Beijing, China - Key Laboratory of Radiometric Calibration and Validation for Environmental Satellites, Beijing, China, 6) Earth System Science Interdisciplinary Center, University of Maryland, College Park, MD, USA	*Abstract ID: 66*
panel	62	**NON UNIFORM BEAM FILLING CORRECTION FOR SCANNING SPACE-BORNE DOPPLER RADARS** *1) Riccardo Rabino, 2) Frederic Tridon, 3) Alessandro Battaglia* 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	*Abstract ID: 113*

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panel	64	**I AND Q SIMULATIONS FOR A POLARIZATION DIVERSITY PULSE PAIR SPACEBORNE DOPPLER RADAR** *1) Ali Rizik, 2) Frederic Tridon, 3) Alessandro Battaglia, 4) Ishuwa Sikaneta* 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) ESA-ESTEC, Noordwijk, Netherlands	*Abstract ID: 118*
panel	65	**FY-3G/PMR ON-ORBIT CALIBRATION DESIGN AND CALIBRATION TEST** *1) Guangji Lai, 2) Runfeng Yang* 1) Beijing Research Institute Of Telemetry - Beijing Research Institute Of Telemetry - Beijing Research Institute Of Telemetry, 2) Beijing Research Institute Of Telemetry - Beijing Research Institute Of Telemetry - Beijing Research Institute Of Telemetry	*Abstract ID: 164* -
panel	66	**ENHANCING SPACE BORNE SNOWFALL ESTIMATES BY COMBINING ACTIVE AND PASSIVE MICROWAVE WIVERN OBSERVATIONS** *1) Nina Maherndl, 2) Maximilian Maahn, 3) Alessandro Battaglia* 1) Leipzig Institute of Meteorology (LIM), Leipzig University, Leipzig, Germany , 2) Leipzig Institute of Meteorology (LIM), Leipzig University, Leipzig, Germany , 3) Politecnico di Torino, Torino, Italy	*Abstract ID: 165* **Award candidate**
panel	67	**AN EVALUATION OF SATELLITE GPM-DPR PRECIPITATION ESTIMATES WITH GROUND-BASED DISDROMETERS IN A MEDITERRANEAN REGION** *1) Eric Peinó, 2) Joan Bech, 3) Francesc Polls, 4) Mireia Udina, 5) Sergi Gonzalez, 6) Brice Boudevillain, 7) Marco Petracca, 8) Elisa Adirosi* 1) Universitat de Barcelona, Barcelona, Spain , 2) Universitat de Barcelona, Barcelona, Spain - Water Research Institute, Universitat de Barcelona, Barcelona, Spain -, 3) Universitat de Barcelona, Barcelona, Spain , 4) Universitat de Barcelona, Barcelona, Spain , 5) WSL-Institut für Schnee- und Lawinenforschung SLF, Davos, Switzerland , 6) Université Grenoble Alpes, CNRS, IRD, Grenoble-INP, Grenoble, France , 7) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy , 8) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy	*Abstract ID: 265*
panel	68	**AN OPERATIONAL X-BAND RADAR FOR QPE AND SUPPORT TO WEATHER MONITORING IN THE COASTAL AREA OF THE STATE OF SAO PAULO** *1) Roberto Vicente Calheiros, 2) Gabriela Ramos Hurtado, 3) Demilson de Assis Quintão, 4) Jaqueline Murakami Kokitsu, 5) Giulia Lembo Caterina* 1) Meteorological Research Institute/Unesp, retired since 2011 , 2) Insitute of Science and Technology/ICT, Unesp - Institute of Advanced Studies on Ocean/IEAMar, Unesp -, 3) IPMet, Faculty of Science, Unesp , 4) Computing Department, Faculty of Science, Unesp , 5) IPMet, Faculty of Science, Unesp - Faculty of Agricultural Sciences, Unesp -	*Abstract ID: 268*
panel	69	**DEVELOPMENT OF AN ENSEMBLE NOWCASTING SYSTEM BY USING THREE-DIMENSIONAL RADAR ECHO MOTION FIELDS** *1) kao-Shen chung, 2) Yu-Chiao Hsu, 3) Yi-Hao Tsou, 4) Hsin-Hung Lin* 1) National Central University , 2) National Central University , 3) Central Weather Administration , 4) National Science and Technology Center for Disaster Reduction	*Abstract ID: 289*
panel	70	**USING SYNTHETIC CLOUD PROFILING RADAR DATA TO DEVELOP VALIDATION METHODOLOGIES FOR GROUND-BASED CLOUD RADAR SITES** *1) Lukas Pfitzenmaier, 2) Pavlos Kollias, 3) Bernat Puigdomènech Treserras, 4) Ulrich Löhnert* 1) Universität zu Köln, Köln, Germany , 2) Stony Brook University, Stony Brook, NY, USA - Universität zu Köln, Köln, Germany -, 3) McGill University, Montreal QC Canada , 4) Universität zu Köln, Köln, Germany	*Abstract ID: 365*
panel	71	**PERFORMANCE OF THE THIES CLIMA 3D STEREO DISDROMETER: EVALUATION DURING RAIN AND SNOW EVENTS** *1) Sabina Angeloni, 2) Elisa Adirosi, 3) Mario Montopoli, 4) Luca Baldini, 5) Alessandro Bracci, 6) Giacomo Roversi* 1) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy , 2) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy , 3) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy Center of Excellence for Telesensing of Environment and Model Prediction of Severe events (CETEMPS), University of L'Aquila, L'Aquila, Italy, 4) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy , 5) National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Bologna, Italy , 6) Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University, Venice, Italy National Research Council of Italy, Institute of Atmospheric Sciences and Climate (CNR-ISAC), Rome, Italy	*Abstract ID: 371*