

Plenary session <i>Schouwburg</i> Chairs: Hidde Leijnse and Remko Uijlenhoet Monday, 2 July 2018	
8:30–9:00	OPENING CEREMONY <u>Gerard van der Steenhoven</u> , <i>General Director, Royal Netherlands Meteorological Institute</i> and <u>Bram de Vos</u> , <i>General Director, Environmental Sciences Group, Wageningen University&Research</i>
9:00–9:30	<i>Keynote on The European Radar Network</i> OPERA - PAST, PRESENT AND FUTURE <u>E. Saltikoff</u> , G. Haase, P. Novak, H. Leijnse, and L. Delobbe <div style="text-align: right;"><i>abstract 025</i></div>
9:30–10:00	<i>Keynote on Microphysical Studies</i> DENSITY OF SNOWFLAKES BASED ON SURFACE OBSERVATIONS <u>A. Von Lerber</u> , D. Moisseev, J. Tiira, and D. Ori <div style="text-align: right;"><i>abstract 150</i></div>

Coffee, poster viewing, and exhibition - 10:00–10:30, New York

Microphysical Studies <i>Schouwburg</i> Monday, 2 July 2018 Chair: Ali Tokay		Mesoscale And Severe Weather <i>Cerise</i> Monday, 2 July 2018 Chair: Scott Collis	
10:30–10:45	AN INVERSE PROBLEM APPROACH TO RETRIEVE FIELDS OF DROP SIZE DISTRIBUTION PARAMETERS FROM XBAND POLARIMETRIC RADAR VARIABLES <u>M. Alcoba</u> , M. Gosset, and H. Andrieu <div style="text-align: right;"><i>abstract 394</i></div>	10:30–10:45	THE ROLE OF SMALL-SCALE VORTICES IN ENHANCING SURFACE WINDS AND DAMAGE IN HURRICANE HARVEY <u>Joshua Wurman</u> and Karen Kosiba <div style="text-align: right;"><i>abstract 080</i></div>
10:45–11:00	MULTI-INSTRUMENTAL RAINFALL RATE ESTIMATION IN THE PERUVIAN CENTRAL ANDES (12.0° S) <u>D. Scipion</u> , J. Valdivia, F. Silva, and M. Milla <div style="text-align: right;"><i>abstract 358</i></div>	10:45–11:00	THE TWIRL PROJECT: FINE-SCALE MOBILE RADAR AND IN SUTU OBSERVATIONS OF TORNADO STRUCTURE <u>Karen A. Kosiba</u> , Josh Wurman, and Howard Bluestein <div style="text-align: right;"><i>abstract 110</i></div>
11:00–11:15	RAINDROP SIZE DISTRIBUTION IN COASTAL RAINFALL SYSTEMS IN SOUTH EAST AUSTRALIA: EFFECT ON Z-R RELATIONSHIPS AND ATTENUATION A. Guyot, J. Pudashine, <u>V. Pauwels</u> , A. Protat, A. Seed, R. Uijlenhoet, M. Prakash, and And J. P. Walker <div style="text-align: right;"><i>abstract 176</i></div>	11:00–11:15	DOPPLER RADAR OBSERVATIONS OF TWO TORNADIC THUNDERSTORM CASES IN THE WESTERN MEDITERRANEAN REGION <u>J. Bech</u> , O. Rodriguez, P. Altube, T. Rigo, N. Pineda, S. Castán, J. Arús, and J. Montanyà <div style="text-align: right;"><i>abstract 348</i></div>

11:15–11:30	<p>WHY THE GENERALIZED GAMMA? - AN ANSWER BASED ON MEASUREMENTS WITH METEOROLOGICAL PARTICLE SPECTROMETER AND 2D VIDEO DISDROMETER <u>M. Thurai</u>, V. N. Bringi, P. N. Gatlin, W. A. Petersen, and M. Wingo <i>abstract 051</i></p>	<p>DUAL-POLARIZATION RADAR OBSERVATIONS OF DEEP CONVECTION OVER THE LAKE VICTORIA BASIN IN EAST AFRICA P. Waniha, A. Kijazi, <u>R. Roberts</u>, and J. Wilson <i>abstract 280</i></p>
11:30–11:45	<p>RECONSTRUCTION OF THE DRIZZLE MODE OF THE RAINDROP SIZE DISTRIBUTION: AN APPROACH USING DOUBLE-MOMENT NORMALISATION <u>T. H. Raupach</u>, M. Thurai, V. N. Bringi, and A. Berne <i>abstract 206</i></p>	<p>RAPID SCAN EXPERIMENT OF DOPPLER WEATHER RADAR FOR MONITORING RAINSTORMS AND TROPICAL CYCLONES IN HONG KONG <u>W. Kong</u> <i>abstract 189</i></p>
11:45–12:00	<p>POLARIMETRIC RADAR RETRIEVALS OF LOWER ORDER DSD MOMENTS: CASE STUDIES USING CSU-CHILL RADAR V. N. Bringi, T. Raupach, M. Thurai, P. C. Kennedy, and A. Berne <i>abstract 114</i></p>	<p>EVALUATING THE DEVELOPMENT STAGE OF THUNDERSTORMS BY USE OF 4D RADAR DATA-PARAMETERS <u>Malte Neuper</u> and Jan Handwerker <i>abstract 225</i></p>

Lunch, poster viewing, and exhibition - 12:00–13:00, New York

	<p>Advances In Signal Processing <i>Schouburg</i> Monday, 2 July 2018 Chair: John Hubbert</p>	<p>Radar Networking <i>Cerise</i> Monday, 2 July 2018 Chair: Asko Huuskonen</p>
13:00–13:15	<p>ATMOSPHERIC BOUNDARY-LAYER HEIGHT TRACKING FROM S-BAND RADAR RETURNS WITH AN EXTENDED KALMAN FILTER: APPLICATION TO VORTEX-SE <u>Francesc Rocadenbosch</u>, Robin Tanamachi, and Stephen J. Frasier <i>abstract 028</i></p>	<p>ENGAGING THE RADAR COMMUNITY THROUGH OPEN SOURCE SOFTWARE <u>Z. Sherman</u>, S. Collis, and R. Jackson <i>abstract 313</i></p>
13:15–13:30	<p>FILCOH, A METHOD TO ELIMINATE GROUND ECHOES FOR WEATHER RADARS OPERATING IN MULTIPLE PRT MODE BY USING THE AVAILABLE AUTOCORRELATION COEFFICIENTS <u>M. Tahanout</u> and J. Parent Du Chatelet <i>abstract 199</i></p>	<p>MULTI-RADAR DATA FUSION FOR HIGH-RESOLUTION QPE IN URBAN AREA <u>Brandon Hickman</u>, Jussi Tiira, Roberto Cremonini, and Dmitri Moisseev <i>abstract 143</i></p>
13:30–13:45	<p>COMPARISON OF CLUTTER DETECTION SCHEMES FOR NON-DOPPLER, NON-POLARIMETRIC X BAND RADARS S. Melani, <u>A. Antonini</u>, F. Caparrini, A. Telleschi, A. Lombardi, A. Mazza, and A. Ortolani <i>abstract 329</i></p>	<p>LONG-TERM ANALYSIS OF GAUGE-ADJUSTED PAN-EUROPEAN RADAR RAINFALL ACCUMULATION <u>Shinju Park</u>, Marc Berenguer, and Daniel Sempere-Torres <i>abstract 325</i></p>

13:45–14:00

PRINCIPLE AND REAL-DATA APPLICATION RESULTS OF MMSE DOPPLER SPECTRAL PROCESSING

Eiichi Yoshikawa, Naoya Takizawa, Hiroshi Kikuchi, Tomoaki Mega, and Tomoo Ushio

abstract 180

CHARACTERISTIC SPATIAL EXTENSION OF RAIN EVENTS IN GERMANY FROM A RADAR BASED PRECIPITATION CLIMATOLOGY

K. Lengfeld, M. Hafer, T. Junghänel, E. Weigl, T. Winterrath, and A. Becker

abstract 090

Coffee, poster viewing, and exhibition - 14:00–16:00, New York

Hydrological Studies Using Weather Radar

Schouwburg

Monday, 2 July 2018

Chair: Marie-Claire ten Veldhuis

Use Of Weather Radar Data In NWP Models

Cerise

Monday, 2 July 2018

Chair: Elena Saltikoff

16:00–16:15

FLASH FLOOD EARLY WARNINGS BASED ON RADAR: COMPARISON OF THE ERICHA FLASH FLOOD INDICATOR WITH A CONTINUOUS DISTRIBUTED HYDROLOGICAL MODEL IN THE FLASH FLOOD CASES OF AUTUMN 2014 IN LIGURIA (ITALY)

D. Sempere-Torres, C. Corral, M. Berenguer, L. Poletti, F. Silvestro, and N. Rebora

abstract 411

RADAR DATA ASSIMILATION AT GERMAN METEOROLOGICAL SERVICE

K. Stephan, U. Blahak, E. Bauernschubert, A. De Lozar, A. Seifert, and C. Welzbacher

abstract 342

16:15–16:30

TOWARD IMPROVED FLASH FLOOD WARNINGS BASED ON HIGH-RESOLUTION PRECIPITATION NOWCASTS

J. Demargne, P. Javelle, D. Organde, J. - A. Fine, C. Fouchier, and L. Garandeau

abstract 154

DATA ASSIMILATION OF RADAR REFLECTIVITY VOLUMES IN A LETKF SCHEME

V. Poli, T. Gastaldo, C. Marsigli, P. P. Alberoni, and T. Paccagnella

abstract 307

16:30–16:45

OPERATIONAL HYDROLOGICAL MODELLING OF SMALL WATERSHED USING QPE FROM DUAL-POL WEATHER RADAR IN BRAZIL

C. Beneti, R. V. Calheiros, M. Sorribas, C. Oliveira, L. Calvetti, J. Ruviaro, and R. Neundorf

abstract 335

ASSIMILATION OF WEATHER RADAR DATA FOR THE SIMULATION OF A HEAVY RAINFALL CASE IN CENTRAL ITALY: A COMPARISON BETWEEN 3D-VAR AND 4D-VAR TECHNIQUES

Vincenzo Mazzearella, Ida Maiello Vincenzo Capozzi, Giorgio Budillon, and Rosella Ferretti

abstract 061

16:45–17:00

INVESTIGATING THE SENSITIVITY OF HYDROLOGICAL MODEL RESPONSE MODELLING TO CRITICAL RAINFALL AND CATCHMENT SCALES IN THE (SEMI-) URBANIZED CHARLOTTE AREA.

E. Cristiano, M-C. Ten Veldhuis, D. B. Wright, J. A. Smith, and N. C. Van De Giesen

abstract 039

ASSIMILATION OF DIFFERENT RADAR DATA FOR A BETTER FORECASTING OF SEVERE WEATHER PHENOMENA

L. Rovai, A. Antonini, S. Melani, V. Capecechi, R. Benedetti, L. Fibbi, B. Gozzini, G. Messeri, A. Ortolani, and F. Pasi

abstract 341

17:00–17:15	<p>DEVELOPMENT OF A DETECTION SYSTEM OF HEAVY RAINFALL USING X-BAND PHASED-ARRAY WEATER RADAR <u>K. Yoshimi</u>, F. Mizutani, N. Takahashi, and T. Ushio</p> <p style="text-align: right;"><i>abstract 115</i></p>	<p>X-NET BASED RADAR DATA ASSIMILATION STUDY OVER SEOUL METROPOLITAN AREA <u>K. -H. Min</u>, Y. Lee, G. Lee, and Y. Kim</p> <p style="text-align: right;"><i>abstract 286</i></p>
17:15–17:30	<p>USING RADAR DATA FOR THE ANALYSIS AND DESIGN OF EXTREMAL EPISODES <u>M. Scheibel</u></p> <p style="text-align: right;"><i>abstract 350</i></p>	<p>USING WEATHER RADAR OBSERVATIONS FOR DATA ASSIMILATION TO MODEL THE AMSTERDAM URBAN CLIMATE <u>Sytse Koopmans</u>, Ronald Van Haren, Gert-Jan Steeneveld, Natalie Theeuwes, Reinder Ronda, Remko Uijlenhoet, and Albert A. M. Holtslag</p> <p style="text-align: right;"><i>abstract 409</i></p>
17:30–17:45	<p>HOW ERRORS IN RAINGAUGE, RADAR AND MICROWAVE LINK DATA PROPAGATE THROUGH HYDROLOGICAL MODELS <u>C. C. Brauer</u>, A. Overeem, H. Leijnse, and R. Uijlenhoet</p> <p style="text-align: right;"><i>abstract 388</i></p>	<p>CONTINENTAL-SCALE WEATHER RADAR DATA ASSIMILATION USING NORTH AMERICAN DATA <u>D. Michelson</u>, D. Jacques, B. Hansen, J-F. Caron, and L. Fillion</p> <p style="text-align: right;"><i>abstract 198</i></p>
17:45–18:00	<p>A NEW MULTIPLICATIVE RANDOM CASCADE MODEL FOR DOWNSCALING INTERMITTENT RAINFALL FIELDS <u>M. Schleiss</u></p> <p style="text-align: right;"><i>abstract 184</i></p>	<p>ASSIMILATION OF AIRBORNE DOPPLER W-BAND RADAR DATA IN THE KILOMETRE-SCALE NWP MODEL AROME M. Borderies, <u>O. Caumont</u>, J. Delano, and V. Ducrocq</p> <p style="text-align: right;"><i>abstract 162</i></p>

Plenary session <i>Schouwburg</i> Chair: Frank Marzano Tuesday, 3 July 2018	
8:30–9:00	<i>Keynote on Mesoscale And Severe Weather</i> PERFORMANCE OF A NEW ALGORITHM FOR NOWCASTING ANOMALOUS TRAJECTORIES <u>A. Del Moral</u> , T. Rigo, and M. C. Llasat <i>abstract 161</i>
9:00–9:30	<i>Keynote on Radar Networking</i> A RENDEZVOUS OF RESEARCH AND OPERATIONS – THE NEW SWISS RADAR GENERATION <u>U. Germann</u> , M. Gabella, H. Barras, Y. Barton, N. Besic, M. Boscacci, L. Clementi, J. Figueras, L. Foresti, J. Grazioli, U. Hamann, A. Hering, D. Nerini, L. Nisi, L. Panziera, M. Sartori, I. Sideris, S. Trefalt, F. Van Den Heuvel, and B. Calpini <i>abstract 389</i>
9:30–10:00	<i>Keynote on Use Of Weather Radar Data In NWP Models</i> A MOMENT-BASED POLARIMETRIC RADAR FORWARD OPERATOR FOR RAIN MICROPHYSICS <u>M. R. Kumjian</u> , C. P. Martinkus, O. P. Prat, S. Collis, H. C. Morrison, and M. Van Lier-Walqui <i>abstract 291</i>

Coffee, poster viewing, and exhibition - 10:00–10:30, New York

Microphysical Studies <i>Schouwburg</i> Tuesday, 3 July 2018 Chair: Daniel Sempere-Torres		Mesoscale And Severe Weather <i>Cerise</i> Tuesday, 3 July 2018 Chair: Irene Crisologo	
10:30–10:45	VERTICAL VARIABILITY RAIN DROP SIZE DISTRIBUTION FROM DISDROMETER AND MICRO RAIN RADAR MEASUREMENTS <u>E. Adirosi</u> , A. Tokay, N. Roberto, E. Gorgucci, M. Montopoli, and L. Baldini <i>abstract 332</i>	10:30–10:45	WEATHER RADAR DERIVED RAIN CELL SIZE STATISTICS FOR LOWER AUSTRIA <u>R. Teschl</u> , F. Teschl, S. Tani, and H. Paulitsch <i>abstract 290</i>
10:45–11:00	IMPACT EVALUATION OF VERTICAL AIR VELOCITY ON THE MICROPHYSICAL RETRIEVALS BY K BAND RADAR PROFILERS USING COMBINED UHF AND S BAND PRODUCTS. <u>M. Montopoli</u> , E. Adirosi, N. Roberto, and L. Baldini <i>abstract 270</i>	10:45–11:00	CHARACTERISTICS OF CONVECTIVE AGGREGATION IN MID-LATITUDES IDENTIFIED IN A DOPPLER C-BAND RADAR NETWORK <u>I. Pscheidt</u> and S. Trömel <i>abstract 194</i>
11:00–11:15	MULTI-FREQUENCY RADAR RETRIEVAL OF SNOWFALL MICROPHYSICS <u>J. Leinonen</u> , M. D. Lebsock, O. O. Sy, S. Tanelli, B. Dolan, R. J. Chase, J. A. Finlon, D. Moisseev, and A. Von Lerber <i>abstract 078</i>	11:00–11:15	CONVECTIVE CLOUD TOP HEIGHTS IN NORTHERN AUSTRALIA IN DIFFERING WET SEASON REGIMES <u>R. Jackson</u> , S. Collis, A. Protat, V. Louf, W. Lin, A. Vogelmann, and S. Endo <i>abstract 353</i>

11:15–11:30	<p>A MICROPHYSICAL RETRIEVAL FOR THE DUAL-FREQUENCY PRECIPITATION RADAR <u>K. Mroz</u> and A. Battaglia</p> <p style="text-align: right;"><i>abstract 216</i></p>	<p>EARLY DETECTION OF DEEP CONVECTION USING NWCSAF RDT PRODUCT AND NATIONAL RADAR MOSAIC IN ITALY <u>R. Cremonini</u>, M. Celano, P. P. Alberoni, R. Bechini, V. Campana, G. Vulpiani, and P. Giordano</p> <p style="text-align: right;"><i>abstract 317</i></p>
11:30–11:45	<p>CHARACTERIZATION OF THE VERTICAL PROFILES OF DUAL-POLARIZATION RADAR OBSERVATIONS IN AND ABOVE THE BRIGHT BAND AT S, C AND X-BANDS <u>Clotilde Augros</u>, Nan Yu, and Nicolas Gausiat</p> <p style="text-align: right;"><i>abstract 296</i></p>	<p>FRESH WATER FLUX ESTIMATED BY SHIPBOARD C-BAND POLARIMETRIC RADAR AND ITS POSSIBLE IMPACT TO THE OCEANIC STRATIFICATION OBSERVED IN THE MARITIME CONTINENT <u>M. Katsumata</u>, B. Geng, S. Yokoi, S. Mori, R. Shirooka, and I. Ueki</p> <p style="text-align: right;"><i>abstract 117</i></p>
11:45–12:00	<p>VERTICAL PROFILE OF REFLECTIVITY FROM K-BAND RADAR OBSERVATIONS IN EAST ANTARCTICA <u>C. Duran-Alarcon</u>, A. Berne, B. Boudevillain, C. Genthon, and N. Souverijns And N. P. M. Van Lipzig</p> <p style="text-align: right;"><i>abstract 398</i></p>	<p>IMPACT OF MULTIPLE RADAR REFLECTIVITY DATA ASSIMILATION ON THE NUMERICAL SIMULATION OF A FLASH FLOOD EVENT DURING THE HYMEX CAMPAIGN <u>I. Maiello</u>, S. Gentile, R. Ferretti, L. Baldini, N. Roberto, E. Picciotti, P. P. Alberoni, and F. S. Marzano</p> <p style="text-align: right;"><i>abstract 017</i></p>

Lunch, poster viewing, and exhibition - 12:00–13:00, New York

	<p>Quantitative Precipitation Estimation <i>Schouwburg</i> Tuesday, 3 July 2018 Chair: Alexis Berne</p>	<p>Radar Networking <i>Cerise</i> Tuesday, 3 July 2018 Chair: Iwan Holleman</p>
13:00–13:15	<p>INVESTIGATION INTO USING A NEURAL NETWORK TO SELECT BETWEEN USING FILTERED OR ALOFT MEASUREMENTS TO IMPROVE QPE IN CLUTTER CONTAMINATED REGIONS S. Lyons, <u>T. Darlington</u>, S. Torres, and D. Warde</p> <p style="text-align: right;"><i>abstract 214</i></p>	<p>PROSPECT OF IMPLEMENTING THE ADVANCED RADAR REFRACTIVITY TECHNIQUE ON OPERATIONAL RADARS <u>Ya-Chien Feng</u>, Frederic Fabry, and Michael M. Bell</p> <p style="text-align: right;"><i>abstract 370</i></p>
13:15–13:30	<p>A SIMULATION-BASED AND EXPERIMENTAL APPROACH TO INVESTIGATE THE IMPACT OF SKYSCRAPERS AND WIND TURBINE FARMS ON WEATHER RADAR DATA <u>Kurtuluş Öztürk</u>, Alper Çubuk, Osman Karabayir, and Elif Uçurum</p> <p style="text-align: right;"><i>abstract 245</i></p>	<p>NEW OPERATION STRATEGIES FOR NATIONWIDE WEATHER RADAR NETWORK IN KOREA <u>Sung-Hwa Jung</u>, Jong-Seong Kim, Youn Choi, Sunki Lee, Dong-Jin Kim, and Jeong-Whan Lee</p> <p style="text-align: right;"><i>abstract 242</i></p>

13:30–13:45	<p>HOW TO BENEFIT FROM HIGH-RESOLUTION DIGITAL ELEVATION MODELS TO SIMULATE PARTIAL BEAM BLOCKAGE? <u>K. Mühlbauer</u> and M. Heistermann</p> <p style="text-align: right;"><i>abstract 068</i></p>	<p>SEVERE WEATHER AND HAIL DETECTION USING THE X BAND WEATHER RADAR TUSCANY NETWORK <u>A. Antonini</u>, S. Melani, A. Ortolani, A. Telleschi, A. Lombardi, I. Giannini, and B. Gozzini</p> <p style="text-align: right;"><i>abstract 331</i></p>
13:45–14:00	<p>X-BAND RADAR ATTENUATION STATISTICS: HOW OFTEN DO WE LOSE THE SIGNAL? <u>H. Leijnse</u></p> <p style="text-align: right;"><i>abstract 406</i></p>	<p>THE CASA DALLAS-FORT WORTH URBAN DEMONSTRATION NETWORK AFTER 5 YEARS OPERATION: ACCOMPLISHMENTS AND CHALLENGES FROM A UNIQUE PLATFORM OF COLLABORATIVE PARTNERSHIP BETWEEN LOCAL, REGIONAL AND NATIONAL ENTITIES <u>V. Chandrasekar</u>, Haonan Chen, Brenda Philips, Francesc Junyent, Eric Lyons, and Apoorva Bajaj</p> <p style="text-align: right;"><i>abstract 355</i></p>

Coffee, poster viewing, and exhibition - 14:00–16:00, New York

	<p>Quantitative Precipitation Estimation <i>Schouwburg</i> Tuesday, 3 July 2018 Chair: Kurtuluş Öztürk</p>	<p>New And Emerging Radar Technologies <i>Cerise</i> Tuesday, 3 July 2018 Chair: Luca Baldini</p>
16:00–16:15	<p>RADAR-RAINFALL ESTIMATION USING SPECIFIC ATTENUATION: IMPROVEMENTS AND CHALLENGES <u>B. -C. Seo</u>, W. F. Krajewski, and A. Ryzhkov</p> <p style="text-align: right;"><i>abstract 076</i></p>	<p>BISTATIC SCATTERING FROM BRAGG TURBULENCE AT X-BAND: A POTENTIAL MECHANISM FOR CLEAR AIR SENSING USING CASA-TYPE RADAR NETWORKS <u>David J. McLaughlin</u></p> <p style="text-align: right;"><i>abstract 403</i></p>
16:15–16:30	<p>INCLUDING THE TIME DIMENSION IN RADAR-RAINGAUGE BLENDING <u>Marc Berenguer</u>, Daniel Sempere-Torres, Eduardo Cassiraga, and Jaime Gomez-Hernandez</p> <p style="text-align: right;"><i>abstract 361</i></p>	<p>THE ADVANCED TECHNOLOGY DEMONSTRATOR AT THE NATIONAL SEVERE STORMS LABORATORY <u>S. Torres</u> and K. Hondl</p> <p style="text-align: right;"><i>abstract 178</i></p>
16:30–16:45	<p>PRECIPITATION VARIABILITY BETWEEN AFTERNOON MIXED LAYER AND FREE ATMOSPHERE CLOUDS IN SEMI-ARID SOUTHEAST ARIZONA <u>Pieter Hazenberg</u>, Max Mitchell, Erika Cropp, <u>Dave Goodrich</u>, Eleonora Demaria, Mark Kautz, and Walter Petersen</p> <p style="text-align: right;"><i>abstract 420</i></p>	<p>X-BAND PHASED-ARRAY POLARIMETRIC RADAR TESTBED: STATUS AND INITIAL RESULTS <u>S. J. Frasier</u>, W. Heberling, C. Wolsieffer, and M. Adam</p> <p style="text-align: right;"><i>abstract 026</i></p>
16:45–17:00	<p>A DUAL-POL RADAR SYNTHETIC QPE FOR OPERATIONS <u>J. Zhang</u>, L. Tang, S. Cocks, P. Zhang, A. Ryzhkov, and K. Howard</p> <p style="text-align: right;"><i>abstract 309</i></p>	<p>OSAKA URBAN PHASED ARRAY RADAR NETWORK EXPERIMENT <u>Tomoo Ushio</u>, H. Kikuchi, T. Mega, F. Mizutani, M. Wada, N. Takahashi, and S. Satoh</p> <p style="text-align: right;"><i>abstract 053</i></p>

17:00–17:15	<p>CLOUD RADAR SPECTRAL POLARIMETRY FOR QUANTITATIVE PRECIPITATION ESTIMATION <u>A. Myagkov</u> and T. Rose</p> <p style="text-align: right;"><i>abstract 337</i></p>	<p>AN ALL-DIGITAL POLARIMETRIC PHASED ARRAY RADAR FOR COMBINED WEATHER AND AIRCRAFT SURVEILLANCE <u>Robert Palmer</u>, Caleb Fulton, Jorge Salazar, Hjalti Sigmarsson, and Mark Yeary</p> <p style="text-align: right;"><i>abstract 159</i></p>
17:15–17:30	<p>THE DEVELOPMENT OF A CANADIAN OPERATIONAL DUAL-POLARIZATION RAINFALL ESTIMATION ALGORITHM <u>S. Boodoo</u>, D. Hudak, N. Donaldson, J. Reid, D. Michelson, M. Couture, P. Rodriguez, and V. Stojanovic</p> <p style="text-align: right;"><i>abstract 229</i></p>	<p>WEATHER OBSERVATIONS WITH A PHASED ARRAY RADAR <u>L. Borowska</u>, D. Zrnica, Y. Zhang, and G. Zhang</p> <p style="text-align: right;"><i>abstract 177</i></p>
17:30–17:45	<p>QUALITY-BASED RADAR DATA PROCESSING AND QPE AT THE SLOVAK HYDROMETEOROLOGICAL INSTITUTE <u>L. Méri</u>, M. Jurašek, L. Okon, and J. Kaňák</p> <p style="text-align: right;"><i>abstract 142</i></p>	<p>DIFFERENTIAL PHASE UPON TRANSMISSION AS A NEW RADAR PARAMETER <u>Valery Melnikov</u></p> <p style="text-align: right;"><i>abstract 107</i></p>
17:45–18:00	<p>THE EUROPEAN CLIMATOLOGICAL HIGH-RESOLUTION GAUGE-ADJUSTED RADAR RAINFALL DATASET <u>A. Overeem</u>, G. Van Der Schrier, E. V. Van Der Plas, G. Lenderink, H. Leijnse, J. F. Meirink, S. Park, M. Berenguer, and D. Sempere-Torres</p> <p style="text-align: right;"><i>abstract 059</i></p>	<p>THE CITY OF SÃO PAULO (BRAZIL) AS A TESTBED OF RAINFALL ESTIMATES FROM COMMERCIAL MICROWAVE LINK NETWORKS M. F. Rios Gaona, A. Overeem, H. Leijnse, T. Raupach, and <u>R. Uijlenhoet</u></p> <p style="text-align: right;"><i>abstract 404</i></p>

Plenary session <i>Schouwburg</i> Chair: Marc Schleiss Wednesday, 4 July 2018	
8:30–9:00	<i>Keynote on Hydrological Studies Using Weather Radar</i> DESERT PRECIPITATION CHARACTERISTICS AND FLASH FLOOD RESPONSE STUDIED USING WEATHER RADAR DATA <u>E. Morin</u> , M. Armon, I. Belachsen, F. Marra, N. Peleg, J. Smith, and Y. Enzel <div style="text-align: right;"><i>abstract 045</i></div>
9:00–9:30	<i>Keynote on Radar Calibration And Monitoring</i> MODELING DIFFERENTIAL REFLECTIVITY BIAS DUE TO ANTENNA TOPOLOGY AND OPERATING FREQUENCY <u>J. Hubbert</u> , C. Cappellin, U. Romatschke, R. Jørgensen, and M. Dixon <div style="text-align: right;"><i>abstract 386</i></div>
9:30–10:00	<i>Keynote on Open-Source Radar Software</i> ANYWHERE NEAR THE SEVEN-YEAR ITCH? ON THE STATE OF WRADLIB UPON THE RELEASE OF V1.0 K. Mühlbauer and <u>M. Heistermann</u> <div style="text-align: right;"><i>abstract 069</i></div>

Coffee and exhibition - 10:00–10:30, New York

	Microphysical Studies <i>Schouwburg</i> Wednesday, 4 July 2018 Chair: Remko Uijlenhoet	Radar Calibration And Monitoring <i>Cerise</i> Wednesday, 4 July 2018 Chair: Hidde Leijnse
10:30–10:45	ICE MICROPHYSICAL RETRIEVALS USING POLARIMETRIC RADAR DATA <u>A. Ryzhkov</u> , A. Murphy, and G. Mcfarquhar <div style="text-align: right;"><i>abstract 040</i></div>	MONITORING OF THE NEXRAD NETWORK USING SOLAR SIGNALS <u>I. Holleman</u> and A. Huuskonen <div style="text-align: right;"><i>abstract 034</i></div>
10:45–11:00	INVESTIGATION OF ICE MICROPHYSICS USING SIMULTANEOUS MEASUREMENTS AT C- AND KA-BAND <u>M. Hagen</u> , F. Ewald, S. Gross, Q. Li, B. Mayer, and T. Zinner <div style="text-align: right;"><i>abstract 326</i></div>	OPERATIONAL SOLAR MONITORING FOR IMPROVING THE HOMOGENEITY OF THE EUROPEAN RADAR NETWORK <u>A. Huuskonen</u> , G. Haase, D. Michelson, H. Leijnse, I. Holleman, M. Probert, R. Gill, M. Frech, M. Kurri, and H. Hohti <div style="text-align: right;"><i>abstract 085</i></div>
11:00–11:15	FINGERPRINTS OF PRECIPITATION PROCESSES REVEALED BY UNSUPERVISED CLASSIFICATION OF PROFILES OF POLARIMETRIC RADAR VARIABLES <u>J. Tiira</u> and D. N. Moisseev <div style="text-align: right;"><i>abstract 146</i></div>	CENTER FOR CLOUD REMOTE SENSING: DOPPLER CLOUD RADAR CALIBRATION CAMPAIGN <u>F. Toledo</u> , J. Yin, J. Delanoe, J-C. Dupont, M. Haeffelin, and H. Russchenberg <div style="text-align: right;"><i>abstract 058</i></div>

11:15–11:30	<p>CHARACTERISATION OF THE MELTING LAYER VARIABILITY IN THE SWISS ALPS USING POLARIMETRIC X-BAND RADARS <u>F. Van Den Heuvel</u>, M. Gabella, and A. Berne</p> <p style="text-align: right;"><i>abstract 208</i></p>	<p>ENHANCING THE CONSISTENCY OF SPACEBORNE AND GROUND-BASED RADAR COMPARISONS BY USING QUALITY FILTERS I. Crisologo, R. Warren, K. Mühlbauer, and M. Heistermann</p> <p style="text-align: right;"><i>abstract 126</i></p>
11:30–11:45	<p>IMPACT OF RIMED AND UNRIMED SNOW ON SNOWFALL RETRIEVALS AT X, KA AND W BAND <u>M. T. Falconi</u>, A. Von Lerber, D. Ori, F. S. Marzano, and D. Moisseev</p> <p style="text-align: right;"><i>abstract 275</i></p>	<p>MONITORING THE ONGOING UPGRADE OF THE SWEDISH WEATHER RADAR NETWORK <u>D. Dufton</u>, G. Haase, D. Johnson, and G. Vulpiani</p> <p style="text-align: right;"><i>abstract 093</i></p>
11:45–12:00	<p>A PROBABILISTIC POLARIMETRIC RADAR FORWARD MODEL FOR SMALL ICE PARTICLES <u>Robert S. Schrom</u> and Matthew R. Kumjian</p> <p style="text-align: right;"><i>abstract 219</i></p>	<p>UAV-AIDED WEATHER RADAR CALIBRATION <u>J. Yin</u>, F. Van Der Zwan, E. Oudejans, P. Hoogeboom, C. Unal, and H. Russchenberg</p> <p style="text-align: right;"><i>abstract 138</i></p>

Lunch and exhibition - 12:00–13:00, New York

Special session in honor of Isztar Zawadzki
Schouwburg
Chair: Daniel Sempere-Torres
Wednesday, 4 July 2018

13:00–13:30 **STORIES ABOUT ISZTAR FROM FRIENDS**
Remko Uijlenhoet, Frederic Fabry, Urs Germann, Marc Berenguer, Gyuwon Lee, Daniel Sempere-Torres

13:30–14:00 **RADAR METEOROLOGY**
Isztar Zawadzki

Excursion and conference dinner - 14:00–23:00

Plenary session <i>Schouwburg</i> Chair: Urs Germann Thursday, 5 July 2018	
8:30–9:00	<i>Keynote on Synergetic Use Of Weather Radars And Other Sensors</i> WEATHER RADAR AND SUPERCONDUCTING GRAVIMETER FOR ESTIMATING HEAVY RAINFALL <u>L. Delobbe</u> , S. Wilfert, A. Watlet, and M. Van Camp <div style="text-align: right;"><i>abstract 036</i></div>
9:00–9:30	<i>Keynote on New And Emerging Radar Technologies</i> POLARIMETRIC VARIABLES ON THE PLANAR PHASED ARRAY RADAR: APPROXIMATE COMPUTATIONS <u>D. Zrníc</u> <div style="text-align: right;"><i>abstract 049</i></div>
9:30–10:00	<i>Keynote on Nowcasting And Blending Techniques</i> THREE MAJOR CHALLENGES IN ENSEMBLE NOWCASTING OF RADAR PRECIPITATION FIELDS <u>L. Foresti</u> , I. V. Sideris, L. Beusch, D. Nerini, and U. Germann <div style="text-align: right;"><i>abstract 033</i></div>

Coffee, poster viewing, and exhibition - 10:00–10:30, New York

Quantitative Precipitation Estimation <i>Schouwburg</i> Thursday, 5 July 2018 Chair: Daniel Michelson	
10:30–10:45	RADAR REMOTE SENSING FOR RAIN/SNOW ESTIMATION IN AN ALPINE CONTEXT: THE GRENOBLE EXPERIMENT <u>G. Delrieu</u> , F. Cazenave, N. Yu, D. Faure, B. Boudevillain, A. Khanal, C. Augros, N. Le Bastard, and N. Gaussiat <div style="text-align: right;"><i>abstract 383</i></div>
10:45–11:00	QUANTIFICATION OF MEASUREMENT ERROR OF POLARIMETRIC X-BAND RADARS IN MOUNTAINOUS REGIONS <u>Nan Yu</u> and Nicolas Gaussiat <div style="text-align: right;"><i>abstract 298</i></div>
11:00–11:15	ON THE USE OF NWP MODEL OUTPUTS TO PRODUCE RADAR VPR CORRECTIONS <u>T. Le Bastard</u> , O. Caumont, N. Gaussiat, and F. Karbou <div style="text-align: right;"><i>abstract 103</i></div>

Radar Calibration And Monitoring <i>Cerise</i> Thursday, 5 July 2018 Chair: Martin Hagen	
10:30–10:45	THE OPERATIONAL REALITY OF WEATHER RADARS WORLDWIDE – A TRAVEL REPORT <u>H. Al Sakka</u> , J. Didszun, and A. Weipert <div style="text-align: right;"><i>abstract 163</i></div>
10:45–11:00	WEATHER RADARS AND RADIO FREQUENCY INTERFERENCES <u>M. Vaccarone</u> , V. Chandrasekar, R. Bechini, and R. Cremonini <div style="text-align: right;"><i>abstract 156</i></div>
11:00–11:15	WIND TURBINES SEEN IN RADAR DATA WITH THE BIG DIFFERENCE METHOD <u>Willi Schmid</u> and Stefan Müller <div style="text-align: right;"><i>abstract 183</i></div>

11:15–11:30	<p>POLARIMETRIC RADAR AND MACHINE LEARNING: FROM THE SOLID PHASE HYDROMETEOR STATISTICS TO THE PRECIPITATION INTENSITY AT THE GROUND Y. Chevalley, <u>N. Besic</u>, J. Gehring, L. Foresti, I. V. Sideris, M. Gabella, U. Germann, and A. Berne</p> <p style="text-align: right;"><i>abstract 207</i></p>	<p>MONITORING DOPPLER DUAL-POLARIZATION RADAR USING AN INDIVIDUAL AND SINGULAR GROUND CLUTTER CELL <u>M. Gabella</u> and F. Van Den Heuvel</p> <p style="text-align: right;"><i>abstract 037</i></p>
11:30–11:45	<p>RADAR-DERIVED QUANTITATIVE PRECIPITATION ESTIMATION BASED ON VERTICAL-RAIN CLOUD TRAJECTORY PROFILES <u>Hanggar G Mawandha</u> and Satoru Oishi</p> <p style="text-align: right;"><i>abstract 190</i></p>	<p>THE STATISTICAL DISTRIBUTION OF ZDR IN DRY SNOW, WITH IMPLICATIONS FOR ZDR CALIBRATION <u>M. J. Dixon</u>, J. C. Hubbert, and G. Meymaris</p> <p style="text-align: right;"><i>abstract 132</i></p>
11:45–12:00	<p>COMMERCIAL MICROWAVE LINKS FOR RAINFALL MONITORING: A NATION-WIDE VALIDATION STUDY IN THE NETHERLANDS <u>L. W. De Vos</u>, A. Overeem, H. Leijnse, and R. Uijlenhoet</p> <p style="text-align: right;"><i>abstract 056</i></p>	<p>ASSESSING ZDR VARIABILITY USING DEDICATED SOLAR BOX SCANS AND OPERATIONAL ZDR MONITORING RESULTS <u>Michael Frech</u> and J. C. Hubbert</p> <p style="text-align: right;"><i>abstract 145</i></p>

Lunch, poster viewing, and exhibition - 12:00–13:00, New York

	<p>Airborne And Spaceborne Radars <i>Schouwburg</i> Thursday, 5 July 2018 Chair: Walter Petersen</p>	<p>Millimeter Wavelength Radars <i>Cerise</i> Thursday, 5 July 2018 Chair: Alexis Berne</p>
13:00–13:15	<p>AIRBORNE IMPLEMENTATION OF PDPP TECHNIQUE ON THE NRC W-BAND RADAR <u>C. Nguyen</u>, A. Battaglia, M. Wolde, A. Pazmany, and A. Illingworth</p> <p style="text-align: right;"><i>abstract 365</i></p>	<p>VERTICAL AIR MOTION IN PRECIPITATING CLOUDS FROM AN AIRBORNE MILLIMETER WAVELENGTH RADAR <u>E. Jung</u> and G.-W. Lee</p> <p style="text-align: right;"><i>abstract 260</i></p>
13:15–13:30	<p>VERIFICATION OF CLOUDSAT INSTANTANEOUS SNOWFALL RATE RETRIEVALS WITH GROUND-BASED RADAR MEASUREMENTS <u>S. Matrosov</u>, J. Hardin, and G. De Boer</p> <p style="text-align: right;"><i>abstract 009</i></p>	<p>USING TRIPLE-FREQUENCY RADAR DOPPLER SPECTRA TO CONSTRAIN SNOW PARTICLE SCATTERING MODELS <u>S. Kneifel</u>, Pavlos Kollias, and Alessandro Battaglia</p> <p style="text-align: right;"><i>abstract 147</i></p>
13:30–13:45	<p>A RADAR-BASED EVALUATION OF GPM RETRIEVALS OF THE RAIN DROP SIZE DISTRIBUTION <u>Walter A. Petersen</u>, Patrick N. Gatlin, David B. Wolff, Ali Tokay, and Mircea Grecu</p> <p style="text-align: right;"><i>abstract 032</i></p>	<p>HOW MUCH ATTENUATION AT W AND KA BANDS IS CAUSED BY MELTING LAYER? AN ANSWER FROM MULTI-FREQUENCY RADAR DOPPLER SPECTRA. <u>Haoran Li</u> and Dmitri Moisseev</p> <p style="text-align: right;"><i>abstract 283</i></p>

13:45–14:00

COMPARISON OF THE GPM DPR SINGLE- AND DOUBLE-FREQUENCY PRODUCTS OVER THE MEDITERRANEAN AREA
Leo Pio D’Adderio, Federico Porcu, Giulia Panegrossi, Paolo Sano, Anna Cinzia Marra, and Stefano Dietrich
abstract 324

HOW ACCURATE IS THE DISCRETE DIPOLE APPROXIMATION FOR MODELING THE SINGLE SCATTERING PROPERTIES OF PARTIALLY MELTED SNOWFLAKES
D. Ori and S. Kneifel
abstract 123

Coffee, poster viewing, and exhibition - 14:00–16:00, New York

Nowcasting And Blending Techniques
Schouwburg
 Thursday, 5 July 2018
 Chair: Alan Seed

Synergetic Use Of Weather Radars And Other Sensors
Cerise
 Thursday, 5 July 2018
 Chair: Lotte de Vos

16:00–16:15

DERIVING AND COMPOSITING MOTION FIELDS – SPEED AND QUALITY CHALLENGES
M. Peura, H. Hohti, and T. Perttula
abstract 203

WHEN IS RADAR DATA CALIBRATION BY IN-SITU NETWORKS MISLEADING?
I. Tchiguirinskaia, A. Ichiba, I. Paz, E. Skouri-Plakali, A. Gires, and D. Schertzer
abstract 399

16:15–16:30

IMPROVED RAINFALL NOWCASTING BY NON-STATIONARY MOTION VECTOR FROM BURGERS EQUATION
Gyuwon Lee, Soorok Ryu, Geunsu Lyu, and Hong-Mok Park
abstract 277

REAL-TIME RAINFALL FROM A COUNTRY-WIDE NETWORK OF COMMERCIAL MICROWAVE LINKS IN GERMANY
C. Chwala, G. Smiatek, and H. Kunstmann
abstract 327

16:30–16:45

BLENDING FIELD-BASED AND CELL TRACKING METHODS FOR IMPROVED PRECIPITATION NOWCASTING
S. Pulkkinen and V. Chandrasekar
abstract 215

RAIN-RATE ESTIMATION FROM CEILOMETER MEASUREMENTS: A COMPARATIVE CASE STUDY USING S-BAND RADAR AND DISDROMETER RETRIEVALS
Ruben Barragan, Francesc Rocadenbosch, Joseph Waldinger, Stephen J. Frasier, David D. Turner, Robin Tanamachi, and Daniel Dawson
abstract 029

16:45–17:00

NOWPRECIP: AN ALGORITHM FOR LOCALIZED PROBABILISTIC PRECIPITATION NOWCASTING IN THE COMPLEX TERRAIN OF SWITZERLAND
I. V. Sideris, L. Foresti, U. Germann, and D. Nerini
abstract 192

REAL TIME DETECTION OF LIGHTNING ACTIVITY USING A LOW-COST AND PORTABLE X-BAND RADAR AND A CLUSTER ANALYSIS APPROACH
V. Capozzi, M. Montopoli, V. Mazzarella, A. C. Marra, N. Roberto, G. Panegrossi, S. Dietrich, and G. Budillon
abstract 272

17:00–17:15

THE NOWCASTING POTENTIAL OF LIGHTNING-JUMPS IN CONVECTIVE CELLS TRACKED BY RADAR IN COMPLEX OROGRAPHY
Alessandro Hering, Luca Nisi, Ulrich Hamann, and Urs Germann
abstract 153

EVALUATION OF MULTIPLE DOPPLER RETRIEVALS OF CONVECTION IN DARWIN
R. Jackson, S. Collis, P. Kollias, M. Oue, S. Endo, A. Vogelmann, W. Lin, T. Lang, and C. Potvin
abstract 354

17:15–17:30

**FROM QUALITATIVE TO QUANTITATIVE
HAIL NOWCASTING**

A. Bell, E. Morgan, A. Seed, M. Curtis, and
R. Bunn

abstract 392

**OBSERVATIONS OF THE ATMOSPHERIC
BOUNDARY LAYER FROM A VERTICALLY
POINTING, S-BAND, FMCW RADAR IN
NORTHERN ALABAMA, U.S.A. DURING
VORTEX-SOUTHEAST (2016-2017)**

R. Tanamachi, S. J. Frasier, J. Waldinger,
A. T. Laffleur, and F. Rocadenbosch

abstract 046

17:30–17:45

**LOCALIZED VARIATIONAL BLENDING
FROM INCA AND AROME-RUC**

A. Atencia, A. Kann, Y. Wang, and F. Meier

abstract 261

**RETRIEVING VOLCANIC MASS ERUP-
TION RATE FROM GROUND-BASED
X-BAND AND L-BAND MICROWAVE
RADARS DURING MT. ETNA EXPLOSIVE
ERUPTION**

F. S. Marzano, L. Mereu, S. Di Fabio,
M. Montopoli, E. Picciotti, S. Scollo, and
C. Bonadonna

abstract 166

17:45–18:00

**A BAYESIAN COMBINATION OF RADAR-
BASED NOWCASTS WITH COSMO-E PRE-
CIPITATION FORECASTS**

D. Nerini, U. Germann, and L. Foresti

abstract 129

**EUROPE-WIDE PATTERNS OF NOC-
TURNAL AVIAN MIGRATION FROM
WEATHER RADAR DATA**

Cecilia Nilsson, Adriaan Dokter, Lies-
beth Verlinden, Judy Shamoun-Baranes,
Baptiste Schmid, Peter Desmet, Silke Bauer,
Jason Chapman, Jose Alves, Phil Stepa-
nian, Nir Sapir, Charlotte Wainwright,
Mathieu Boos, Anna Górska, Myles Menz,
Pedro Rodrigues, Hidde Leijnse, Pavel Ze-
htindjiev, Robin Brabant, Günther Haase,
Nadja Weisshaupt, Michał Ciach, and Fe-
lix Liechti

abstract 405

Plenary session <i>Schouwburg</i> Chair: Herman Russchenberg Friday, 6 July 2018	
8:30–9:00	<i>Keynote on Airborne And Spaceborne Radars</i> GPMS DUAL-FREQUENCY PRECIPITATION RADAR (DPR) ALGORITHM AND MEASUREMENT OF ICE PRECIPITATION <u>T. Iguchi</u> , R. Oki, and N. Kawamoto <div style="text-align: right;"><i>abstract 160</i></div>
9:00–9:30	<i>Keynote on Advances In Signal Processing</i> REJUVENATING REFRACTIVITY PROCESSING TO IMPROVE RETRIEVAL QUALITY WHILE REDUCING LABOR-INTENSIVE MAINTENANCE NEEDS <u>F. Fabry</u> , D. W. Hogg, and Y.-C. Feng <div style="text-align: right;"><i>abstract 175</i></div>
9:30–10:00	<i>Keynote on Millimeter Wavelength Radars</i> AN OVERVIEW OF MILLIMETER WAVE CLOUD RADAR OBSERVATIONS AT THE DOE-ARM OLIKTOK POINT SITE <u>Joseph C. Hardin</u> , Robert A. Houze, Matthew Shupe, Scott Giangrande, Todd Houchens, Chris Williams, and Nitin Bharadwaj <div style="text-align: right;"><i>abstract 356</i></div>

Coffee and exhibition - 10:00–10:30, New York

Plenary session <i>Schouwburg</i> Chairs: Hidde Leijnse and Remko Uijlenhoet Friday, 6 July 2018	
10:30–11:00	<i>Keynote on Quantitative Precipitation Estimation</i> PROBABILISTIC QUANTITATIVE PRECIPITATION ESTIMATES WITH GROUND- AND SPACE-BASED RADARS <u>P. Kirstetter</u> , J. J. Gourley, and J. Zhang <div style="text-align: right;"><i>abstract 359</i></div>
11:00–11:30	AWARDS AND UPCOMING RADAR CONFERENCES
11:30–12:00	CLOSING CEREMONY

Lunch and exhibition - 12:00–13:00, New York

End of ERAD2018

Poster session on New And Emerging Radar Technologies
New York
Monday, 2 July 2018

NEW C-BAND, 1-DEGREE DUAL-FREQUENCY, DUAL-POLARIZATION, FAST-SCANNING 2X 1MW, MOBILE RADAR

Joshua Wurman and Karen Kosiba

poster 1, abstract 079

CHARACTERIZATION OF WIND TURBINE CLUTTER ON THE RADAR NETWORK AT THE SOUTHERN GREAT PLAINS ARM SITE

B. Isom and I. Lindenmaier

poster 2, abstract 167

ON THE USE OF HORN ANTENNA TO CALIBRATE THE MPAR ADVANCED TECHNOLOGY DEMONSTRATOR

Igor R. Ivic

poster 3, abstract 169

THE LIDAR RADAR OPEN SOFTWARE ENVIRONMENT (LROSE) "BLAZE" RELEASE

Michael M. Bell, Michael J. Dixon, and Wen-Chau Lee

poster 4, abstract 170

THE GAMIC WAVE SENSING RADAR AND THE GD-APS FUTUREWAVES WAVE AND VESSEL MOTION FORECASTING SYSTEM

S. Gerhards, J. Kusters, J. Mertens, M. Toussaint, and D. Veerkamp

poster 5, abstract 197

CALIBRATION OF THE POLARIMETRIC PHASED ARRAY WEATHER RADAR USING THE COMPUTATIONAL ELECTROMAGNETICS APPROACH THE DIFFERENTIAL PHASE

Djordje Mirkovic and D. S. Zrnica

poster 6, abstract 209

PROGRESS IN THE PROGRAM FOR EARLY DETECTION OF TORRENTIAL RAINFALL BY USING MULTI-PARAMETER PHASED ARRAY WEATHER RADAR IN JAPAN

N. Takahashi, K. Iwanami, and M. Kawasaki

poster 7, abstract 252

VERTICAL WIND PROFILE MEASUREMENTS ON THE OPERATIONAL WEATHER RADAR IN "WIND PROFILER" MODE

Yu. B. Pavlyukov, A. V. Travov, and N. A. Eroshkina

poster 8, abstract 255

ARE SENSORS TEMPORAL RESOLUTION REQUIREMENTS FOR THE WEATHER FUNCTION FEASIBLE USING ADAPTIVE SCANNING?

D. Schwartzman and S. Torres

poster 9, abstract 311

USING THE SPARC SIMULATOR TO REFINE AND JUSTIFY SENSOR WEATHER SURVEILLANCE REQUIREMENTS

F. Nai, C. Curtis, D. Schwartzman, J. Boettcher, and S. Torres

poster 10, abstract 320

WATER VAPOR ESTIMATION USING REFLECTED WAVE OF DIGITAL TERRESTRIAL BROADCASTING WAVE

T. Kouketsu, S. Kawamura, H. Hanado, and H. Ohta

poster 11, abstract 345

A SYSTEM FOR SYNCHRONIZED MULTI-RADAR SCANNING FOR METEOROLOGICAL REMOTE SENSING
C. J. Walden, M. Fortescue, M. L. Trethewey, D. N. Ladd, and A. Doo

poster 12, abstract 360

THE CSU SEA-POL SHIP-BOARD RADAR: SALIENT FEATURES AND FIRST RESULTS

J. George, V. Chandrasekar, S. Rutledge, F. Junyent, and P. Kennedy

poster 13, abstract 371

Poster session on Advances In Signal Processing

New York

Monday, 2 July 2018

DEEP LEARNING FRAMEWORK FOR PRECIPITATION RETRIEVALS FROM COMMUNICATION SATELLITES

Kumar Vijay Mishra, Ahmad Gharanjik, Bhavani Shankar M. R., and Björn Ottersten (presented by M. Alaei)

poster 14, abstract 023

SPECTRAL POLARIMETRIC FILTERS DESIGN FOR BROAD-BAND WEATHER CLUTTER MITIGATION

J. Yin, C. Unal, and H. Russchenberg

poster 15, abstract 137

EXTENDING DOPPLER VELOCITY COVERAGE FOR DATA ASSIMILATION

F. Fabry and A. Kilambi

poster 16, abstract 174

ALTERNATIVE DATA PROCESSING FOR MICRO RAIN RADAR (MRR) OBSERVATIONS

Albert Garcia-Benadí, Joan Bech, Sergi Gonzalez, and Joaquin Del Rio Fernandez

poster 17, abstract 213

A MONOTONIC ALGORITHM FOR ESTIMATION OF THE SPECIFIC DIFFERENTIAL PHASE

Nan Yu and Nicolas Gaussiat

poster 18, abstract 302

AUTOMATED IDENTIFICATION OF GROUND CLUTTER CONTAMINATION FOR POLARIMETRIC DOPPLER WEATHER RADARS

David A. Warde and Sebastian M. Torres

poster 19, abstract 347

DUAL PRF PROCESSING WITHIN THE BARON PROCESSOR SUITE

B. Mrinal, C. Darrin, and L. James

poster 20, abstract 351

UNCERTAINTY QUANTIFICATION FOR ARM CLOUD RADARS

N. Bharadwaj and B. Isom

poster 21, abstract 375

DROPLET FALLING VELOCITIES AND KA-BAND ATTENUATION DEDUCED FROM RHI SCANS

Matthias Richard Bauer-Pfundstein

poster 22, abstract 382

Poster session on Radar Networking

New York

Monday, 2 July 2018

ENHANCING WEATHER SURVEILLANCE WITH EEC'S 3.5GHZ "HIGH-FREQUENCY" DUAL-POL S-BAND WEATHER RADAR SYSTEMS

Dr. Qing Cao, R. Stedronsky, and M. Knight

poster 23, abstract 001

POTENTIAL FOR USE OF RADAR DATA FOR CLIMATE MONITORING

E. Saltikoff, A. Becker, R. Hollmann, B. Urban, K. Friedrich, and C. Tassone

poster 24, abstract 024

NETWORK OF WEATHER RADARS IN REPUBLIC OF SRPSKA, BOSNIA AND HERZEGOVINA

T. Dejanovic, V. Vranic, and Z. Vucinic

poster 25, abstract 088

IMPLEMENTATION AND OPERATIONAL USE OF A HETEROGENEOUS RADAR NETWORK IN THE COMPLEX OROGRAPHY OF ABRUZZO REGION

E. Picciotti, S. Di Fabio, M. Montopoli, S. Barbieri, R. Zauri, A. Cipollone, F. L. Rossi, and F. S. Marzano

poster 26, abstract 121

A FIRST ANALYSIS OF THE VALLIRANA RADAR DATA QUALITY AND ITS CONTRIBUTION TO THE RADAR NETWORK OF THE METEOROLOGICAL SERVICE OF CATALONIA (XRAD)

O. Argemí, P. Altube, and T. Rigo

poster 27, abstract 148

REAL-TIME IMPLEMENTATION OF VARIATIONAL 3-D WIND SYNTHESIS TECHNIQUE(WISSDOM) USING WEATHER RADAR NETWORK OF KMA

Kwang-Ho Kim, Yu-Chieng Liou, Hae-Lim Kim, Sung-Hwa Jung, and Sun-Ki L

poster 28, abstract 179

REPLACEMENT OF THE CANADIAN WEATHER RADAR NETWORK

P. Leibiuk, Q. Li, and J. M. C. Young

poster 29, abstract 218

RADAR NETWORK, PRODUCTS AND PERSPECTIVES AT DEUTSCHER WETTERDIENST

K. Helmert, T. Hengstebeck, M. Mott, N. Rathmann, J. Steinert, P. Tracksdorf, K. Wapler, and M. Werner

poster 30, abstract 228

NETWORKS OF UHF WIND PROFILERS WITH S-BAND DOPPLER RADARS

Parksa Kim, Bernard Campistrom, Kwang-Ho Kim, Min-Seong Kim, and Byung Hyuk Kwon

poster 31, abstract 238

KMA DUAL-POLARIZATION RADAR NETWORKS AND OBSERVATION DATA QUALITY

Bongjae Kuk, Jongsung Kim, Weonil Sohn, Woosuk Kim, Hye-Young Han, Dong-Jin Kim, and Sun-Ki Lee

poster 32, abstract 253

SERVAL: A NEW CENTRALIZED PROCESSING SYSTEM FOR THE FRENCH RADAR NETWORK

V. Vogt, N. Gaussiat, M. Martet, S. Chaumont, J. Millet, I. Pfaffenzeller, and B. Fardon

poster 33, abstract 378

FROM PULSE TO PRODUCT

T. Mathijssen and H. Beekhuis

poster 34, abstract 408

HYDRO-METEOROLOGICAL OBSERVATORY OF CORDOBA, ARGENTINA

Ignacio A. Montamat, Giorgio M. Caranti, Ral A. Comes, Andrs Rodrguez, Pablo Sonna, Denis A. Poffo, Ricardo In-garamo, Jorge Saffe, Agustn Martina, and Santiago A. Rodriguez Gonzalez

poster 35, abstract 417

Poster session on Quantitative Precipitation Estimation

New York

Monday, 2 July 2018

GROUND ECHO REMOVAL EMPLOYING DUAL-POL C-BAND RADARS IN THE NETHERLANDS

A. Overeem, R. Uijlenhoet, and H. Leijnse

poster 36, abstract 021

IMPROVEMENT OF PRECIPITATION ESTIMATES FROM CHUVAONLINE X-BAND RADARS THROUGH THE IMPLEMENTATION OF A NEW ATTENUATION CORRECTION TECHNIQUE

Keyla M. Mora Navarro and Carlos Augusto Morales

poster 37, abstract 031

DUAL-POLARIZATION RADAR RAINFALL ESTIMATION USING A DATABASE OF SIMULATED RAINDROP SIZE DISTRIBUTIONS

Bin Pei and Firat Y. Testik

poster 38, abstract 048

QUANTITATIVE PRECIPITATION ESTIMATION BYX-BAND POLARIMETRIC RADAR NETWORK OF KOCHI UNIVERSITY

Akira Nishii and Koji Sassa

poster 39, abstract 054

STUDY OF LOW-LEVEL PRECIPITATION BY COMPARING C-BAND AND X-BAND RADAR DATA

Paul Schmuck, Jan Handwerker, and Norbert Kalthoff

poster 40, abstract 073

EFFECT OF URBAN ENVIRONMENT ON SUMMER PRECIPITATION IN STUTTGART

Yaoyao Zheng, Jan Handwerker, and Norbert Kalthoff

poster 41, abstract 074

PRECIPITATION MEASUREMENTS BY RADAR DURING DACCIWA

Jan Handwerker, Norbert Kalthoff, and The Kitcube Team

poster 42, abstract 075

PARAMETER ESTIMATION OF Z-R RELATIONSHIP FOR FLASH FLOOD WARNING SYSTEM

M. Kang, W. Na, and C. Yoo

poster 43, abstract 082

VERIFICATION OF RADAR HYDROMETEOR CLASSIFICATION ALGORITHMS FOR THE UK C-BAND NETWORK

B. Pickering, R. Neely III, D. Harrison, S. Best, and Alan Blyth

poster 44, abstract 097

GEOSTATISTICAL MERGING OF X-BAND WEATHER RADAR AND A SPARSE RAIN GAUGE NETWORK OVER AN URBAN CATCHMENT

I. Seck and J. Van Baelen

poster 45, abstract 109

<p>REGIME-DEPENDENT RADAR REFLECTIVITY-RAIN RATE RELATIONSHIPS AND THEIR POTENTIAL TO IMPROVE RADAR RAINFALL ESTIMATES <u>B. Kirsch</u>, F. Ament, and M. Clemens</p> <p style="text-align: right;"><i>poster 46, abstract 124</i></p>
<p>IMPROVEMENTS TO POLARIMETRIC RADAR RETRIEVALS DURING HURRICANE HARVEY <u>D. B. Wolff</u>, W. A. Petersen, A. Tokay, D. A. Marks, J. L. Pippitt, and P. Kirstetter</p> <p style="text-align: right;"><i>poster 47, abstract 130</i></p>
<p>IMPROVEMENT OF RADAR DATA QUALITY CONTROL WITHIN RADVOL-QC SYSTEM <u>K. Ośródk</u>a, J. Szturc, and A. Jurczyk</p> <p style="text-align: right;"><i>poster 48, abstract 140</i></p>
<p>PAN-EUROPEAN MULTI-INSTRUMENTAL RAINFALL COMPOSITE (PERC) H. Sinisalo, S. Pulkkinen, <u>A. Von Lerber</u>, and J. Koistinen</p> <p style="text-align: right;"><i>poster 49, abstract 151</i></p>
<p>IMPROVEMENT OF THE ADJUSTMENT PROCEDURE ON A LONG- TERM RADAR DATA SET <u>M. Jessen</u>, T. Einfalt, and I. Frerk</p> <p style="text-align: right;"><i>poster 50, abstract 152</i></p>
<p>THE ROLE OF METEOROLOGICAL RADAR STATION IN THE SYSTEM OF EFFECTIVE MANAGEMENT AND PREDICTION OF HAIL <u>Varduhi Margaryan</u></p> <p style="text-align: right;"><i>poster 51, abstract 195</i></p>
<p>SIMPLE YET ADJUSTABLE RADAR DATA VIEWER <u>C. Fennig</u>, T. Einfalt, and I. Frerk</p> <p style="text-align: right;"><i>poster 52, abstract 200</i></p>
<p>IMPACT OF THE VERTICAL GRADIENTS OF PRECIPITATION ON THE RADAR QPE BIAS IN THE FRENCH ALPS <u>D. Faure</u>, N. Gaussiat, and G. Delrieu</p> <p style="text-align: right;"><i>poster 53, abstract 201</i></p>
<p>RADAR QPE FOR AN EXTREME PRECIPITATION EVENT IN SOUTHERN BRAZIL: JANUARY 2018 FLASH FLOOD - 409MM IN 48H <u>L. Calvetti</u>, C. Beneti, W. F. Coelho, C. Cardoso, T. Silva, M. Quadro, and D. Herdies</p> <p style="text-align: right;"><i>poster 54, abstract 222</i></p>
<p>RADAR-BASED QUANTITATIVE PRECIPITATION ESTIMATION (QPE) USING CONCEPTS FROM INFORMATION THEORY: ANALYSING THE POTENTIAL OF DATA-BASED, DYNAMIC Z-R RELATIONS, AND INVESTIGATING INFORMATION LOSSES FROM CLOUD TO GROUND <u>Malte Neuper</u>, Uwe Ehret, Hans-Stefan Bauer, and Volker Wulfmeyer</p> <p style="text-align: right;"><i>poster 55, abstract 224</i></p>
<p>CHARACTERIZING THE APPARENT MULTIFREQUENCY REFLECTIVITY SIGNATURES OF OROGRAPHIC PRECIPITATION USING A COUPLED RAINSHAFT MICROPHYSICS-RADIATIVE TRANSFER MODEL AND OBSERVATIONS <u>Malarvizhi Arulraj</u> and Ana P. Barros</p> <p style="text-align: right;"><i>poster 56, abstract 233</i></p>
<p>ENHANCEMENT OF RADAR RAINFALL ESTIMATES FOR ESTONIAN TERRITORY THROUGH OPTICAL FLOW TEMPORAL INTERPOLATION <u>J. Rahu</u>, T. Voormansik, and P. Post</p> <p style="text-align: right;"><i>poster 57, abstract 249</i></p>

<p>DIFFERENTIAL PHASE PROCESSING AT X-BAND FREQUENCY TO IMPROVE THE ESTIMATION OF THE SPECIFIC ATTENUATION AND BACKSCATTER DIFFERENTIAL PHASE <u>R. Reinoso-Rondinel</u>, C. Unal, and H. Russchenberg</p> <p style="text-align: right;"><i>poster 58, abstract 259</i></p>
<p>RAINFALL ESTIMATION IN HIGH SPATIOTEMPORAL RESOLUTION USING X-BAND DUAL-POL RADARS IN SEOUL METROPOLITAN AREA <u>Daehyung Lee</u>, Geunsu Lyu, Hong-Mok Park, Wonbae Bang, Alexander Ryzhkov, and Gyuwon Lee</p> <p style="text-align: right;"><i>poster 59, abstract 264</i></p>
<p>HYBRID SURFACE RAINFALL ESTIMATION FOR OPERATIONAL APPLICATION USING DUAL POLARIZATION RADAR NETWORK IN KOREA Young-A Oh, Mi-Kyung Suk, Sung-Hwa Jung, and <u>Sun-Ki Lee</u></p> <p style="text-align: right;"><i>poster 60, abstract 266</i></p>
<p>OPEN SOURCE POLARIMETRIC RADAR AND WEATHER STATION DATA USING PYTHON <u>Remco Van De Beek</u></p> <p style="text-align: right;"><i>poster 61, abstract 273</i></p>
<p>COMPARISON BETWEEN DIFFERENT QPE BASED ON: MICROWAVE LINKS, RADAR ADJUSTED AND GAUGES <u>P. P. Alberoni</u>, A. Fornasiero, G. Roversi, S. Pasetti, M. Folegani, and F. Porcù</p> <p style="text-align: right;"><i>poster 62, abstract 274</i></p>
<p>TESTING OF CONVENTIONAL ATTENUATION ESTIMATION ALGORITHMS WITH OPERATIONAL RADARS IN DIFFERENT BANDS <u>Aleksandr Lialishkin</u>, Alexander Solonin, Nikolay Bocharnikov, Tatiana Bazlova, Nadezhda Yakimainen, and Vasilii Olenev</p> <p style="text-align: right;"><i>poster 63, abstract 285</i></p>
<p>LONG-TERM ANALYSIS OF RADAR RAINFALL MEASUREMENTS IN THE UK FOR HYDROLOGICAL APPLICATIONS <u>M. A. Rico-Ramirez</u></p> <p style="text-align: right;"><i>poster 64, abstract 352</i></p>
<p>RAINFALL RATE ESTIMATION USING HYDRO-ESTIMADOR (GOES) AND DUAL POLARIMETRIC RADAR IN A COASTAL TROPICAL BASIN OF PERU J. Valdivia, M. Saavedra, <u>D. Scipion</u>, Y. Silva, J. Prado, and B. L. Cheong</p> <p style="text-align: right;"><i>poster 65, abstract 362</i></p>
<p>EVALUATION OF PRECIPITATION TYPE CLASSIFICATION METHODS FOR GROUND-BASED AND GPM DPR SATELLITE RADAR DATA <u>Soichiro Sugimoto</u>, Mitsuharu Nomura, and Takahisa Kobayashi</p> <p style="text-align: right;"><i>poster 66, abstract 380</i></p>
<p>MELTING LAYER CLIMATOLOGY IN THE GENOBLE VALLEY USING MULTI-FREQUENCY, MULTI-PARAMETER, MULTI-ANGLE RADAR MEASUREMENTS <u>A. Khanal</u>, G. Delrieu, S. Kremer, and F. Cazenave</p> <p style="text-align: right;"><i>poster 67, abstract 384</i></p>
<p>SHORT TIME PRECIPITATION ESTIMATION USING WEATHER RADAR AND SURFACE OBSERVATIONS: WITH WIND DRIFT INTEGRATED USING A STOCHASTIC METHOD <u>Jieru Yan</u> and András Bárdossy</p> <p style="text-align: right;"><i>poster 68, abstract 385</i></p>

PARAMETERIZING RAINDROP SIZE DISTRIBUTIONS USING MICROWAVE LINKS

T. C. Van Leth, H. Leijnse, A. Overeem, and R. Uijlenhoet

poster 69, abstract 410

USING MICROWAVE LINK SIGNAL FLUCTUATIONS FOR THE RETRIEVAL OF RAINFALL RATES

E. Seager, J. Frank, R. Uijlenhoet, and H. Leijnse

poster 70, abstract 413

AN EVALUATION OF RAIN RADAR ADJUSTMENT PROCEDURES

Micha Silver, Arnon Karnieli, and Erick Fredj

poster 71, abstract 416

GEOSTATISTICAL APPROACH TO RAINFALL MAPPING FROM COMMERCIAL MICROWAVE LINKS

W. Wolff, A. Overeem, and R. Uijlenhoet

poster 72, abstract 418

Poster session on Hydrological Studies Using Weather Radar

New York

Tuesday, 3 July 2018

EXPLORING THE SPATIAL VARIABILITY OF EXTREME RAINFALL INTENSITIES AT RADAR SUBPIXEL SCALE USING A HIGH-RESOLUTION STOCHASTIC RAINFALL GENERATOR

N. Peleg, F. Marra, S. Fatichi, A. Paschalis, P. Molnar, and P. Burlando

poster 1, abstract 002

INTENSIFICATION OF CONVECTIVE RAIN CELLS AT WARMER TEMPERATURES OBSERVED FROM WEATHER RADAR OVER MEDITERRANEAN TO SEMIARID CLIMATES

N. Peleg, F. Marra, S. Fatichi, P. Molnar, E. Morin, A. Sharma, and P. Burlando

poster 2, abstract 003

SPATIAL PROPERTIES OF PRECIPITATION EXTREMES USING RADAR AND PLUVIOMETERS

Geoff Pegram and András Bárdossy

poster 3, abstract 008

SNOW-LEVEL ESTIMATES FROM POLARIMETRIC OPERATIONAL WEATHER RADAR MEASUREMENTS

S. Matrosov, D. Gattas, and A. White

poster 4, abstract 010

SPATIAL AND TEMPORAL AUTOCORRELATION STRUCTURE OF CONVECTIVE RAINFALL IN SEMIARID-ARID CLIMATE: IMPLICATIONS FOR REMOTE SENSING ESTIMATION

F. Marra and E. Morin

poster 5, abstract 041

RAINFREQ: RAINFALL FREQUENCY ANALYSIS FROM REMOTE SENSING RAINFALL ESTIMATES

F. Marra, N. Peleg, E. I. Anagnostou, and E. Morin

poster 6, abstract 057

MEAN-FIELD-BIAS CORRECTION OF RADAR FORECASTS BY USING BACKWARD TRACKING METHOD

W. Na

poster 7, abstract 083

SHIPBORNE POLARIMETRIC RADAR OBSERVATION OF THE MODULATION OF THE DIURNAL VARIATION OF OROGRAPHIC PRECIPITATION ALONG THE WESTERN COAST OF SUMATRA ISLAND BY SYNOPTIC-SCALE DISTURBANCES

B. Geng and M. Katsumata

poster 8, abstract 182

TOWARDS A COMMON PROCEDURE FOR THE EVALUATION OF DAMAGE-PRODUCING EVENTS

T. Einfalt, S. Hinsken, and M. Scheibel

poster 9, abstract 186

METHODS AND STATISTICAL TOOLING FOR DETERMINING RAINFALL EVENTS IN RADAR DATASETS

M. A. A. Alderlieste, T. Einfalt, T. Mordelt, A. Pfister, H. Plaggenmars, M. Scheibel, and A. Treis

poster 10, abstract 230

AN APPROACH FOR CLASSIFICATION OF HYDROMETEORS BY K-MEANS CLUSTERING

O. Gokdere

poster 11, abstract 323

REGIONAL FREQUENCY ANALYSIS OF RADAR RAINFALL IN BELGIUM

E. Goudenhoofdt, L. Delobbe, and P. Willems

poster 12, abstract 379

<p>HYDROLOGICAL APPLICATION OF RADAR RAINFALL NOWCASTING IN THE NETHERLANDS <u>D. Heuvelink</u>, C. C. Brauer, M. Berenguer, D. Sempere-Torres, and R. Uijlenhoet</p> <p style="text-align: right;"><i>poster 13, abstract 387</i></p>
<p>OPTIMIZATION OF RAIN GAUGE SAMPLING DENSITY FOR DISCHARGE PREDICTION USING BAYESIAN CALIBRATION Alexandre M. J-C. Wadoux, <u>Remko Uijlenhoet</u>, Sytze De Bruin, and Gerard B. M. Heuvelink</p> <p style="text-align: right;"><i>poster 14, abstract 395</i></p>
<p>SPATIAL RESOLUTIONS IN AREAL RAINFALL ESTIMATION AND THEIR IMPACT ON HYDROLOGICAL SIMULATIONS OF A LOWLAND CATCHMENT W. Terink, H. Leijnse, G. A. P. H. Van Den Eertwegh, and <u>R. Uijlenhoet</u></p> <p style="text-align: right;"><i>poster 15, abstract 412</i></p>
<p>OPERATIONAL HYDROLOGICAL NOWCASTING: CHAIN COMPARISON APPLIED ON MEDITERRANEAN SMALL CATCHMENTS <u>M. L. Poletti</u>, M. Berenguer, F. Silvestro, N. Reborá, C. Corral, and D. Sempere-Torres</p> <p style="text-align: right;"><i>poster 16, abstract 414</i></p>

Poster session on Nowcasting And Blending Techniques

New York

Tuesday, 3 July 2018

<p>RADAR REFLECTIVITY ADVECTION ESTIMATION VIA PROXY CIRCLE IMAGES A. C. P. Oude Nijhuis, Y. Dufournet, T. Otto, and I. Stepanov</p> <p style="text-align: right;"><i>poster 17, abstract 011</i></p>
<p>SEVERE HAIL DETECTION: HYDROMETEOR CLASSIFICATION FOR POLARIMETRIC C-BAND RADARS USING FUZZY-LOGIC AND T-MATRIX SCATTERING SIMULATIONS <u>M. Schmidt</u>, S. Trömel, A. V. Ryzhkov, and C. Simmer</p> <p style="text-align: right;"><i>poster 18, abstract 072</i></p>
<p>OPTICAL FLOW MODELS BENCHMARKING FOR RADAR-BASED PRECIPITATION NOWCASTING G. Ayzel, <u>M. Heistermann</u>, and T. Winterrath</p> <p style="text-align: right;"><i>poster 19, abstract 100</i></p>
<p>USING WEATHER RADAR AND A NEW ICE MASS ESTIMATOR TO FORECAST LIGHTNING <u>Evan Ruzanski</u> and V. Chandrasekar</p> <p style="text-align: right;"><i>poster 20, abstract 134</i></p>
<p>RADAR RAINFALL COMPOSITING: COMPARISON OF DIFFERENT METHODS A. Jurczyk, J. Szturc, and K. Ośródká</p> <p style="text-align: right;"><i>poster 21, abstract 141</i></p>
<p>STOCHASTIC ENSEMBLE PRECIPITATION NOWCASTING IN WINTER CONDITIONS <u>S. Pulkkinen</u>, E. Saltikoff, P. Karsisto, and A. Von Lerber</p> <p style="text-align: right;"><i>poster 22, abstract 191</i></p>
<p>COMBINATION OF OBJECT-BASED PROBABILISTIC NOWCASTING AND OBJECT-BASED NWP ENSEMBLE <u>R. Posada</u>, R. Feger, M. Schultze, K. Wapler, and M. Werner</p> <p style="text-align: right;"><i>poster 23, abstract 226</i></p>

DEVELOPMENT OF A NEW SEAMLESS PREDICTION SYSTEM FOR VERY SHORT RANGE CONVECTIVE-SCALE FORECASTING AT DEUTSCHER WETTERDIENST

Ulrich Blahak, Kathrin Wapler, Marcus Paulat, Roland Potthast, Axel Seifert, Liselotte Bach, Elisabeth Bauernschubert, Robert Feger, Kathrin Feige, Michael Hoff, Markus Junk, Alberto De Lozar, Lisa Neef, Rafael Posada, Martin Rempel, Markus Schultze, Christian Welzbacher, and Manuel Werner

poster 24, abstract 227

DEVELOPMENT OF TRAIN OPERATION CONTROL METHOD AGAINST GUST USING DOPPLER RADAR

C. Fujiwara, K. Kusunoki, H. Inoue, N. Ishitsu, K. Arai, and H. Suzuki

poster 25, abstract 246

DEVELOPMENT OF A PROBABILISTIC PRECIPITATION-NOWCASTING APPROACH

M. Schultze, R. Feger, R. Posada, M. Rempel, M. Werner, K. Wapler, and U. Blahak

poster 26, abstract 256

A K-NN METHOD FOR NOWCASTING RAINFALL INTENSITIES AT FINE TEMPORAL AND SPATIAL SCALES

B. Shehu and U. Haberlandt

poster 27, abstract 257

RADAR NETWORK-BASED MESOCYCLONE DETECTION

T. Hengstebeck, K. Wapler, D. Heizenreder, and P. Joe

poster 28, abstract 279

BLENDING HIGH-FREQUENCY NWP PRECIPITATION FORECASTS IN AN ENSEMBLE NOWCASTING SYSTEM: STEPS-ALARO

L. De Cruz, M. Reyniers, L. Delobbe, and L. Foresti

poster 29, abstract 282

EVALUATING THE ACCURACY OF OPTICAL FLOW TECHNIQUES ON NOWCASTING

Arthur C. T. De Souza, Maik Heistermann, and Georgy Ayzel

poster 30, abstract 300

NOWCASTING THE FREEZING RAINFALL IN THE AUTOMATED SYSTEM "METEOTRASSA"

Igor Zamorin, Tatiana Bazlova, Nikolay Bocharnikov, and Mark Vinogradov

poster 31, abstract 301

Poster session on Synergetic Use Of Weather Radars And Other Sensors

New York

Tuesday, 3 July 2018

PRODUCING CONVECTION DAILY MAPS BASED ON OPERA COMPOSITE AND EUCLID LIGHTNING DATA

D. R. Poelman and L. Delobbe

poster 32, abstract 015

RESULTS OF THE MONITORING TASKS AND CO-CREATION ACTIVITIES OF THE PRECIPITATION PRODUCTS OF KAPILDUI WEATHER RADAR

M. Maruri, S. Gaztelumendi, K. Otxoa De Alda, R. Hernandez, C. Stocker J. Salazar, I. Eguiara, and J. A. Aranda

poster 33, abstract 066

SYNERGY OF GPM AND GROUND-BASED RADAR OBSERVATIONS FOR PRECIPITATION ESTIMATION AND DETECTION OF MICROPHYSICAL PROCESSES

V. Pejčić, S. Trömel, K. Mühlbauer, P. Saavedra, J. Beer, and C. Simmer

poster 34, abstract 089

<p>ON THE USE OF COMMERCIAL MICROWAVE LINKS FOR RAINFALL ESTIMATION IN SEMI-ARID AREAS <u>R. Raich</u></p>	<p><i>poster 35, abstract 096</i></p>
<p>STRUCTURAL CHARACTERISTICS OF PRECIPITATING CLOUDS MEASURED BY TRMM PR AND IGRA <u>Y. Fu, R. Wang, J. Xia, L. Sun, and M. Wang</u></p>	<p><i>poster 36, abstract 116</i></p>
<p>NOWCASTING OF THUNDERSTORM AND HAIL EVENTS USING GROUND BASED REMOTE SENSING DATA <u>T. Böhme, C. Herold, A. Leyser, and T. Hengstebeck</u></p>	<p><i>poster 37, abstract 155</i></p>
<p>WEATHER RADAR DATA DRIVEN NEAR-GROUND PRECIPITATION TYPE ESTIMATION AT DEUTSCHER WETTERDIENST <u>J. Steinert</u></p>	<p><i>poster 38, abstract 185</i></p>
<p>A COMPARISON OF TOTAL LIGHTNING REFLECTIVITY PROXIES AND WEATHER RADAR DATA IN SOUTHERN BRAZIL FOR HIGH IMPACT WEATHER MONITORING AND NOWCASTING <u>W. F. Coelho, L. Calvetti, C. Beneti, and N. A. Rozin</u></p>	<p><i>poster 39, abstract 223</i></p>
<p>ASSESSMENT OF PROPAGATION EFFECTS AND RADAR DATA QUALITY WITH A DUAL-POL TARGET SIMULATOR DURING THE OLYMPIC WINTER GAMES M. Schneebeli, <u>A. Leuenberger</u>, J. Gehring, G. Lee, K. D. Ahn, F. Tapiador, and A. Berne</p>	<p><i>poster 40, abstract 281</i></p>
<p>X-BAND RADAR PARAMETERS FROM PARSIVEL2 DATA USING PYDSD <u>E. Sulmoni, J. Figueras i Ventura, and J. Grazioli</u></p>	<p><i>poster 41, abstract 314</i></p>
<p>MULTISOURCE DATA VERIFICATION OF A WEATHER RADAR SURFACE PRECIPITATION TYPE PRODUCT <u>E. Casellas, J. Bech, R. Veciana, N. Pineda, T. Rigo, and J. More</u></p>	<p><i>poster 42, abstract 316</i></p>
<p>HAIL EVENT ANALYSIS AND DAMAGE ASSESSMENT BASED ON MULTI-DATA APPROACH <u>S. Tani, H. Paulitsch, B. Süsser-Rechberger, and R. Teschl</u></p>	<p><i>poster 43, abstract 321</i></p>
<p>PERFORMANCES OF GROUND RADAR AND INFRARED SATELLITE NEW COMBINED ALGORITHM FOR THE ITALIAN PENINSULA <u>Leo Pio Dadderio, Gianfranco Vulpiani, Silvia Puca, Giulia Panegrossi, Paolo Sano, Anna Cinzia Marra, and Stefano Dietrich</u></p>	<p><i>poster 44, abstract 322</i></p>
<p>STUDIES OF THE MELTING LAYER OF PRECIPITATIVE SYSTEMS USING X-BAND DUAL POLARIZATION WEATHER RADAR AND SMARTLNB NETWORK <u>S. Melani, A. Antonini, A. Ortolani, L. Baldini, E. Adirosi, L. Facheris, F. Giannetti, and A. Petrolino</u></p>	<p><i>poster 45, abstract 328</i></p>
<p>ARM AERIAL FACILITY AND RADAR CLOUD OBSERVATIONS FROM THE ACE-ENA FIELD CAMPAIGN <u>A. Matthews, J. Hardin, B. Isom, F. Mei, L. Goldberger, S. Giangrande, R. Wood, and N. Bharadwaj</u></p>	<p><i>poster 46, abstract 364</i></p>

RAINFALL MAPS FROM COMMERCIAL MICROWAVE LINKS (CMLS) AND URBAN FLOOD PREDICTION: PILOT TESTS IN SEVERAL AFRICAN CITIES

M. Alcoba, M. Gosset, F. Cazenave, N. Chahinian, C. Bouvier, M. Turko, and A. Yapi

poster 47, abstract 393

INTRA- AND INTER-EVENT VARIABILITY OF DROP SIZE DISTRIBUTION IN MEDITERRANEAN REGIONS

B. Boudevillain, S. Hachani, G. Delrieu, and Z. Bargaoui

poster 48, abstract 396

Poster session on Non-meteorological Use Of Weather Radar

New York

Tuesday, 3 July 2018

TIME-SERIES BASED APPROACH TO IDENTIFY AND PROCESS BIOLOGICAL TARGETS IN RADAR WIND PROFILER DATA FOR CROSS DISCIPLINARY PURPOSES

N. Weisshaupt, V. Lehmann, A. Haeefele, and M. Maruri

poster 49, abstract 101

COMPARISON OF ONSHORE AND OFFSHORE BIRD MIGRATION BY DIFFERENT RADAR SYSTEMS NEAR THE BELGIAN COAST

M. Reyniers, R. Brabant, M. Lukach, B. Schmid, and M. Boos

poster 50, abstract 193

RAIN ATTENUATION STATISTICS AT KA-BAND ESTIMATED FROM WEATHER RADAR OBSERVATIONS

M. Lukach, L. Quibus, D. Vanhoenacker, and L. Delobbe

poster 51, abstract 303

TRACKING OF SMALL UNMANNED AERIAL VEHICLES USING WEATHER RADAR

K. Orzeł, D. Pepyne, S. Turner, J. Vilardell-Sanchez, A. Bajaj, M. Zink, and S. Frasier

poster 52, abstract 338

Poster session on Radar Calibration And Monitoring

New York

Tuesday, 3 July 2018

COMBINING WEATHER RADAR SYSTEMS TO IMPROVE REAL TIME RAINFALL ESTIMATION FOR URBAN FLOOD MONITORING AND PREDICTION

Geoff Austin, Luke Sutherland-Stacey, John Nicol, Andrew Coffin, and Ken Williams

poster 53, abstract 035

CALIBRATION OF RADAR REFLECTIVITY AND DIFFERENTIAL REFLECTIVITY FOR OPERATIONAL DUAL-POLARIZATION WEATHER RADAR NETWORK

Jeong-Eun Lee, Hae-Lim Kim, Sung-Hwa Jung, and Sun-Ki Lee

poster 54, abstract 055

STANDARD OPERATION PROCEDURES (SOP) FOR WEATHER RADARS OPERATION, MONITORING, MAINTENANCE AND CALIBRATION

L. Liman, T. Posio, and M. Kurri

poster 55, abstract 062

EVOLUTION OF THE CONFIGURATION OF THE LIGHTNING PROTECTION SYSTEM OF THE KAPILDUI WEATHER RADAR INSTALLATION

M. Maruri and J. A. Aranda

poster 56, abstract 067

IMPROVED COLLOCATION TECHNIQUES BETWEEN RADAR AND AIRCRAFT

F. Lumb, R. Neely, A. Blyth, G. Nott, A. Wellpott, C. Walden, J. Crosier, C. Westbrook, S. Abel, S. Best, J. Dorsey, M. Fortescue, D. Harrison, D. Ladd, S. O'Shea, and C. Reed

poster 57, abstract 077

ON THE CAPABILITIES OF THE GPM CORE OBSERVATORY OVER GREAT BRITAIN AND IRELAND

D. Watters, A. Battaglia, K. Mroz, and F. Tridon

poster 58, abstract 095

CALIBRATION OF THE NCAR AIRBORNE W-BAND RADAR USING OCEAN SURFACE BACKSCATTERING DATA

U. Romatschke, J. Vivekanandan, R. Rilling, P.-S. Tsai, and S. M. Ellis

poster 59, abstract 113

MONITORING OF CALIBRATION HOMOGENITY OF HUNGARIAN WEATHER RADAR NETWORK

Marianna Hadvári, Peter Nemeth, and Roland Steib

poster 60, abstract 122

OPERATIVE CORRECTION OF DUAL-PRF VELOCITY OUTLIERS

P. Altube, T. Rigo, O. Argemí, N. Pineda, J. Bech, S. Collis, and J. Helmus

poster 61, abstract 149

EVALUATION OF REFLECTIVITY/POLARIMETRY/RADIOMETRY-BASED C-BAND ATTENUATION CORRECTION SCHEME USING NEIGHBOURING RADARS

N. Husnoo, T. Darlington, R. Thompson, and A. Illingworth

poster 62, abstract 210

RADOME EFFECTS ON THE POLARIMETRIC VARIABLES OF A MOBILE X-BAND RADAR

J. Figueras i Ventura, Z. Schauwecker, E. Sulmoni, and J. Grazioli

poster 63, abstract 262

DIRECT COMPARISONS OF POLARIMETRIC C-BAND AND S-BAND MOMENTS IN SNOW

B. M. Taylor

poster 64, abstract 367

OPERATIONAL MONITORING OF TR-LIMITER DEGRADATION BASED ON CLOSE RANGE GROUND CLUTTER

T. Mathijssen, S. Broere, H. Beekhuis, and H. Leijnse

poster 65, abstract 407

Poster session on Millimeter Wavelength Radars

New York

Tuesday, 3 July 2018

CHARACTERISTICS OF CLOUD VERTICAL STRUCTURE DURING DIFFERENT PHASES OF INDIAN SUMMER MONSOON: CLOUD RADAR PERSPECTIVE

Sukanya Patra and M. C. R Kalapureddy

poster 66, abstract 125

ARM CLOUD RADARS AT THE EASTERN NORTH ATLANTIC SITE: AN UPDATE

B. Isom and N. Bharadwaj

poster 67, abstract 171

PARAMETRIZATION OF FALLING SNOW MICROPHYSICS AND ITS APPLICATION TO DUAL-FREQUENCY RADAR RETRIEVALS

D. Moisseev, A. Von Lerber, J. Leinonen, and J. Tyynela

poster 68, abstract 248

OCCURRENCE AND VERTICAL DISTRIBUTION OF CLOUDS IN KOREAN PENINSULA FROM GROUND-BASED KA-BAND CLOUD RADAR OBSERVATIONS

Bo-Young Ye, Gyuwon Lee, and Sangwon Joo

poster 69, abstract 269

Poster session on Microphysical Studies

New York

Thursday, 5 July 2018

CLOUD ELECTRIFICATION MODEL IN THE COSMO NUMERICAL WEATHER PREDICTION MODEL

Z. Sokol and J. Minářová

poster 1, abstract 014

VARIATIONS IN RADAR RAINFALL ESTIMATORS WITH GENERAL WEATHER TYPES AND LOCATION IN BAVARIA

W. Ghada and Annette Menzel

poster 2, abstract 042

A HYDROMETEOR CLASSIFICATION ALGORITHM FOR THE UK C-BAND WEATHER RADAR NETWORK

S. R. Best and D. L. Harrison

poster 3, abstract 043

MICROPHYSICAL CHARACTERISTICS OF ORGANIZED CONVECTION OBSERVED BY POLARIMETRIC RADAR IN EASTERN CHINA

Kun Zhao, Gang Chen, Guifu Zhang, and Wen-Chau Lee

poster 4, abstract 086

INVESTIGATION OF THE SPECTRAL DIFFERENTIAL PHASE IN THE CASE OF A S-BAND RADAR PROFILER

C. Unal

poster 5, abstract 098

AN X-BAND STUDY OF KDP AND RAINFALL OVER SOUTHERN ENGLAND DURING WINTER 2018

J. M. Hampton, R. R. Neely III, and A. M. Blyth

poster 6, abstract 106

AUTOMATIC DETECTION OF THE MELTING LAYER USING POLARIMETRIC RADAR PROFILER

M. T. Berndsen, C. M. H. Unal, and H. W. J. Russchenberg

poster 7, abstract 128

THE HYMID PROJECT – HYDROMETEORCLASSIFICATION IN THE ALPS

L. Tüchler, V. Meyer, and R. Kaltenböck

poster 8, abstract 139

A POLARIMETRIC ANALYSIS OF ICE MICROPHYSICAL PROCESSES IN MELTING LAYERS OF WINTER STORMS, USING QUASI-VERTICAL PROFILES

E. M. Griffin, T. J. Schuur, and A. V. Ryzhkov

poster 9, abstract 181

A STUDY OF HEAVY AND PERSISTENT PRECIPITATION IN SW ENGLAND

A. Blyth, Y. Huang, L. Bennett, and D. Dufton

poster 10, abstract 187

HYDROMETEOR CLASSIFICATION BY PORTABLE X-BAND POLARIMETRIC RADAR OF KOCHI UNIVERSITY

Koji Sassa and Kotaro Yoshimura

poster 11, abstract 188

MODELING CLOUDS AND PRECIPITATION IN ADLIE LAND, ANTARCTICA: POLAR-WRF SIMULATIONS VERSUS IN-SITU AND RADAR OBSERVATIONS

Etienne Vignon, Christophe Praz, Josué Gehrin, Nikola Besic, and Alexis Berne

poster 12, abstract 196

<p>LONG-TERM ANALYSIS OF REFLECTIVITY-RAINFALL RATE RELATIONSHIPS USING DISDROMETER DATA <u>Daniel Sanchez-Rivas</u> and M. A. Rico-Ramirez</p> <p style="text-align: right;"><i>poster 13, abstract 202</i></p>
<p>TOPOGRAPHIC INFLUENCE ON SNOWFALL: A RADAR BASED SPATIO-TEMPORAL ANALYSIS <u>N. Besic</u>, F. Gerber, D. Nerini, L. Foresti, J. Figueras i Ventura, M. Gabella, U. Germann, M. Lehning, and A. Berne</p> <p style="text-align: right;"><i>poster 14, abstract 205</i></p>
<p>A RADAR BASED AUTOMATED DETECTION ALGORITHM FOR REFREEZING LAYER AND ITS IMPLEMENTATION INTO A FUZZY LOGIC HYDROMETER CLASSIFICATION SCHEME <u>Brandon Hickman</u>, Silke Trömel, Alexander Ryzhkov, and Clemens Simmer</p> <p style="text-align: right;"><i>poster 15, abstract 211</i></p>
<p>TEMPORAL EVOLUTION OF PRECIPITATION RELATED MICROPHYSICAL PROCESSES BASED ON DUAL-POL DATA OF S-, X-, AND C-BAND DOPPLER RADARS <u>M. Lukach</u>, R. R. Neely III, and D. Dufton</p> <p style="text-align: right;"><i>poster 16, abstract 217</i></p>
<p>SIMULATIONS OF THE RADAR VARIABLES DURING VAPOR DEPOSITION AND RIMING IN ARCTIC MIXED-PHASE CLOUDS <u>Robert S. Schrom</u>, Matthew R. Kumjian, and Jerry Y. Harrington</p> <p style="text-align: right;"><i>poster 17, abstract 221</i></p>
<p>POLARIMETRIC RADAR CHARACTERISTICS OF THE ASYMMETRIC EYEWALL OF HURRICANE HARVEY (2017) <u>Ya-Chien Feng</u> and Michael M. Bell</p> <p style="text-align: right;"><i>poster 18, abstract 234</i></p>
<p>AUTOMATIC IDENTIFICATION OF MELTING LAYER BASED ON FUZZY LOGIC AT OPERATIONAL S-BAND DUAL POLARIZATION RADAR <u>Hye-Young Han</u>, Sung-Hwa Jung, Gyuwon Lee, Dong-Jin Kim, and Sun-Ki Lee</p> <p style="text-align: right;"><i>poster 19, abstract 237</i></p>
<p>SNOWFALL FORMATION AND ENHANCEMENT PROCESSES IN TWO CONTRASTED MOUNTAIN RANGES: THE ALPS AND THE TAEBAEK MOUNTAINS <u>J. E. Gehring</u>, N. Besic, C. Praz, and A. Berne</p> <p style="text-align: right;"><i>poster 20, abstract 239</i></p>
<p>PRELIMINARY RESULT OF ICE-POP 2018: SNOW MICROPHYSICAL CHARACTERISTICS BY DIFFERENT TYPES OF SNOW HABIT <u>Kwonil Kim</u>, Wonbae Bang, Choeng-Lyong Lee, Daehyung Lee, Daejin Yeom, Su-Jeong Cho, Kwang-Deuk Ahn, Namwon Kim, Christophe Praz, Alexis Berne, Walter Petersen, Stella Melo, Wei-Yu Chang, Francisco Tapiador, and Gyuwon Lee</p> <p style="text-align: right;"><i>poster 21, abstract 265</i></p>
<p>LINKING SNOWFALL MICROPHYSICAL PROPERTIES AND WATER CONTENT USING A MASC, A 2DVD AND A PLUVIO2 A. Reverdin, C. Praz, T. Raupach, and <u>A. Berne</u></p> <p style="text-align: right;"><i>poster 22, abstract 268</i></p>
<p>PRELIMINARY RESULTS ON MICROPHYSICAL CHARACTERIZATION OF PRECIPITATION OVER ANTARCTICA COAST N. Roberto, <u>L. Baldini</u>, A. Bracci, M. Montopoli, E. Adirosi, E. Gorgucci, C. Scarchilli, P. Grigioni, V. Ciardini, and F. Porcu</p> <p style="text-align: right;"><i>poster 23, abstract 278</i></p>

<p>ICE MICROPHYSICS DURING OLYMPEX: COMPARISON BETWEEN REMOTE SENSING AND AIRBORNE IN SITU OBSERVATIONS F. Tridon, <u>A. Battaglia</u>, R. Chase, K. Mroz, J. Turk, S. Tanelli, S. Nesbitt, J. Leinonen, and S. Kneifel <i>poster 24, abstract 295</i></p>
<p>CORRECTION OF DROP SIZE DISTRIBUTIONS FROM DIFFERENT DISDROMETERS USING GENERALIZED NORMALIZATION PARAMETERS DURING ICE-POP 2018 PROJECT Wonbae Bang, Kwonil Kim, Su-Jeong Cho, Daejin Yeom, Choeng-Lyong Lee, Daehyung Lee, Seungwoo Baek, and Gyuwon Lee <i>poster 25, abstract 305</i></p>
<p>A FOUR YEAR LAGRANGIAN STUDY OF ISOLATED CONVECTION IN HOUSTON, TEXAS: USING PUBLIC DATA AND OPEN SOURCE CODE TO DESIGN A FIELD CAMPAIGN <u>S. Collis</u>, R. Jackson, M. Picel, M Van Lier-Walqui, and A. Fridlind <i>poster 26, abstract 318</i></p>
<p>PAIRED DISTROMETRIC MEASUREMENTS IN SOUTH BRAZIL: WIND EFFECTS AND SAMPLING UNCERTAINTIES <u>R. V. Calheiros</u> and C. Beneti <i>poster 27, abstract 336</i></p>
<p>POLARIMETRIC DOPPLER OBSERVATIONS OF ICE PARTICLES WITH SCANNING 94 GHZ CLOUD RADAR <u>A. Myagkov</u> and T. Rose <i>poster 28, abstract 339</i></p>
<p>LEVERAGING RADAR OBSERVATIONS TO PROBABILISTICALLY INFORM NEW CLASSES OF MICROPHYSICAL PARAMETERIZATION SCHEMES <u>M. Van Lier-Walqui</u>, M. Kunjian, H. Morrison, O. Prat, K. Riemel, J. Harrington, A. Jensen, and R. Schrom <i>poster 29, abstract 343</i></p>
<p>ESTIMATION OF OBSERVATIONAL AND FORWARD-SIMULATOR UNCERTAINTIES IN THE CONTEXT OF MICROPHYSICAL STUDIES USING DOPPLER SPECTRA AND POLARIMETRIC RADAR OBSERVATIONS <u>M. Van Lier-Walqui</u>, M. Kumjian, H. Morrison, O. Prat, J. Turk, K. Riemel, J. Harrington, A. Jensen, and R. Schrom <i>poster 30, abstract 344</i></p>
<p>STUDY OF THE MONSOON VARIABILITY BY THE CLOUD RADARS ESTIMATED MICROPHYSICAL PROFILES M. C. R Kalapureddy, <u>Sukanya Patra</u>, and Vipul Dhavale <i>poster 31, abstract 349</i></p>
<p>SIMULTANEOUS OBSERVATIONS OF KA BAND PROFILER AND GPM DUAL-FREQUENCY PRECIPITATION RADAR OVER TROPICAL CENTRAL ANDES J. Valdivia, S. Kumar, Y. Silva, and <u>D. Scipion</u> <i>poster 32, abstract 363</i></p>
<p>FIELD OBSERVATION FOR INVESTIGATING THE MICROPHYSICAL CHARACTERISTICS OF PRECIPITATION SYSTEM IN KOREA <u>Dong-In Lee</u>, Mi-Young Kang, Hyeon-Joon Kim, and Sung-Ho Suh <i>poster 33, abstract 374</i></p>

Poster session on Use Of Weather Radar Data In NWP Models

New York

Thursday, 5 July 2018

COMPARISON OF EXTREME PRECIPITATION EVENTS SIMULATED BY THE NWP MODEL COSMO WITH ADJUSTED WEATHER RADAR DATA IN A HIGH TEMPORAL RESOLUTION

V. Bližňák, P. Zacharov, M. Kašpar, and M. Müller

poster 34, abstract 022

SOLAR ENERGY PERSPECTIVE ON THE DATA ASSIMILATION OF RADAR REFLECTIVITY IN A LIMITED AREA NWP MODEL

Tuuli Perttula, Sami Niemelä, Anders Lindfors, and Elena Saltikoff

poster 35, abstract 120

INFORMATION SPARSENESS, A KEY OBSTACLE TO RADAR DATA ASSIMILATION IN CONVECTION

F. Fabry

poster 36, abstract 172

IF INSECTS ARE THE PASSIVE TRACERS WE WANT THEM TO BE TO ESTIMATE WINDS, WHY ARE THEY GENERALLY ALIGNED?

F. Fabry, V. Meunier, R. Krishnamoorthy, and A. Kilambi

poster 37, abstract 173

ASSIMILATION OF ZDR COLUMNS FOR IMPROVING THE SPINUP AND FORECAST OF CONVECTIVE STORMS IN STORM-SCALE MODELS

J. Carlin, J. Gao, J. Snyder, and A. Ryzhkov

poster 38, abstract 231

ENSEMBLE KALMAN FILTER ASSIMILATION OF SIMULATED POLARIMETRIC RADAR DATA FOR A TWO-MOMENT BULK MICROPHYSICS SCHEME: OSS EXPERIMENTS

Kefeng Zhu, Ming Xue, and Kun Zhao

poster 39, abstract 236

A HYDROMETEOROLOGICAL ANALYSIS OF AN EXTREME FLASH FLOOD EVENT IN THE URBAN AREA OF WEST ATTICA, GREECE

M. Anagnostou, G. Varlas, J. Kalogiros, P. Katsafados, A. Papadopoulos, E. Baltas, and E. Anagnostou

poster 40, abstract 243

THE IMPORTANCE OF ASSIMILATING THERMODYNAMIC FIELDS WITH RADAR OBSERVATIONS IN CONVECTIVE-SCALE WEATHER SYSTEMS

Ching-Yin Ke and Kao-Shen Chung

poster 41, abstract 287

IMPACT OF THE ASSIMILATION OF THE DUAL-POLARIZATION DOPPLER RADAR DATA FOR A CONVECTION SYSTEM USING THE 4DVAR ALGORITHM ON QUANTITATIVE PRECIPITATION NOWCASTING

Shao-Fan Chang

poster 42, abstract 312

QUANTIFYING ERRORS ASSOCIATED WITH POLARIMETRIC RADAR FORWARD OPERATORS

Jeffrey C. Snyder, Alexander Ryzhkov, and Alexander Khain

poster 43, abstract 366

REAL-TIME RADAR DATA QUALITY FOR DATA ASSIMILATION

S. Ellis, D. Albo, J. Sun, T. Weckwerth, and J. Hubbert

poster 44, abstract 368

EVALUATION OF HEAVY RAINFALL EVENTS IN THE PERUVIAN ANDES USING WRF MODEL AND WEATHER RADAR

Y. Saavedra, Y. Silva, and A. Moya

poster 45, abstract 376

Poster session on Mesoscale And Severe Weather

New York

Thursday, 5 July 2018

UNDERSTANDING AND PREDICTION OF RAINFALL ASSOCIATED WITH LANDFALLING TROPICAL CYCLONES (UPDRAFT)

Yuan Wang

poster 46, abstract 006

IMPLEMENTATION OF A DYNAMIC EQUATION CONSTRAINT BASED ON THE STEADY STATE MOMENTUM EQUATIONS WITHIN THE WRF HYBRID ENSEMBLE-3DVAR DATA ASSIMILATION SYSTEM AND TEST WITH RADAR T-TREC WIND ASSIMILATION FOR TROPICAL CYCLONE CHANTHU (2010)

Jie Ming, Xin Li, Ming Xue, Yuan Wang, and Kun Zhao

poster 47, abstract 007

USING A FOUR-DIMENSIONAL VARIATIONAL RADAR AND SURFACE DATA ASSIMILATION SYSTEM TO INVESTIGATE THE PROCESS LEADING TO A HEAVY PRECIPITATING EVENT OVER COMPLEX TERRAIN: A CASE STUDY IN NORTHERN TAIWAN

Y.-J. Wu, Y.-C. Liou, S.-L. Tai, and J. Sun

poster 48, abstract 019

INTEGRATION OF RESEARCH WEATHER RADARS INTO ATMOSPHERIC SCIENCE EDUCATION AT PURDUE UNIVERSITY, U.S.A.

R. Tanamachi

poster 49, abstract 027

SINGLE- AND DUAL- POLARIZATION RADAR HAIL DETECTION AT THE BOHEMIA HAILSTORMS ON 23 MAY 2016

K. Skripnikova and D. Rezacova

poster 50, abstract 038

USING EUSKALMET RADAR FOR ANALYSIS OF INTENSE AND PERSISTENCE PRECIPITATION EVENT IN BASQUE COUNTRY DURING WINTER: THE 11 JANUARY 2018 CASE.

J. Egaña, S. Gaztelumendi, O. Principe, V. Palacio, and M. Maruri

poster 51, abstract 063

USING EUSKALMET RADAR FOR ANALYSIS OF A HEAVY STORMS EVENT IN BASQUE COUNTRY DURING SUMMER: THE 30 AUGUST 2017 CASE

J. Egaña, M. Celano, S. Gaztelumendi, M. Celano, O. Principe, M. Celano, V. Palacio, M. Celano, and M. Maruri

poster 52, abstract 064

LONG-TERM CHARACTERISTICS OF WEATHER RADAR PRODUCTS DERIVED FROM 15-YR DATASET OF VOLUMETRIC MEASUREMENTS

P. Novák and H. Kyznarov

poster 53, abstract 081

POLARIMETRIC SIGNATURES IN SEVERE STORMS: OBSERVATIONS BY THE FRENCH RADAR NETWORK VS. FORECASTS FROM THE AROME CONVECTIVE-SCALE NWP SYSTEM

M. Montangon, O. Caumont, and C. Augros

poster 54, abstract 091

<p>STORM CELL CHARACTERISTICS DERIVED BY CELL-TRACKING ALGORITHM CELLTRACK - EVALUATION AND OPERATIONAL VISUALIZATION <u>H. Kyznarov</u> and P. Novák</p>	<p><i>poster 55, abstract 094</i></p>
<p>USE OF POLARIMETRIC DATA FOR BETTER ANALYSES OF CONVECTIVE STORM CHARACTERISTICS <u>David Ryva</u></p>	<p><i>poster 56, abstract 102</i></p>
<p>AN OVERVIEW OF THE SHONAI AREA RAILROAD WEATHER PROJECT <u>K. Kusunoki</u>, T. Adachi, H. Y. Inoue, K. Arai, N. Ishitsu, S. Onomura, C. Fujiwara, and H. Suzuki</p>	<p><i>poster 57, abstract 104</i></p>
<p>ANALYSIS OF HAIL EVENT IN FIELD OF REFLECTIVITY AND DIFFERENTIAL REFLECTIVITY <u>S. Stevanović</u>, S. Biljić, M. Vasić, and G. Bogunović</p>	<p><i>poster 58, abstract 131</i></p>
<p>DUAL-DOPPLER AND POLARIMETRIC RADAR ANALYSIS OF CONVECTIVE SYSTEMS IN WEST GERMANY <u>Raquel Evaristo</u>, Silke Trömel, and Clemens Simmer</p>	<p><i>poster 59, abstract 144</i></p>
<p>CONVECTIVE CLOUDS OBSERVATIONS AND ANALYSIS WITH POLARIMETRIC RADAR IN THE QINGHAI-XIZANG PLATEAU M. Yao, <u>Z. Hu</u>, and X. Huang</p>	<p><i>poster 60, abstract 165</i></p>
<p>EXTREME RAINFALL ANALYSIS AND ESTIMATION OF INTENSITY-DURATION-FREQUENCY CURVES USING DUAL POLARIZATION WEATHER RADAR DATA OF ESTONIA AND ITALY <u>T. Voormansik</u>, R. Cremonini, D. Moiseev, and P. Post</p>	<p><i>poster 61, abstract 284</i></p>
<p>TORMIC: RADAR-BASED DETECTION AND FORECASTING TORNADOES AND MICROBURSTS OVER NORWAY <u>Sevim M. Gulbrandsen</u>, Laila Fodnes Sidselrud, and Cristian Lussana</p>	<p><i>poster 62, abstract 289</i></p>
<p>IRMA - IMPLEMENTATION OF A HIGH RESOLUTION 3D RADAR MOSAIC FOR AVIATION WITHIN SESAR <u>L. Donohue</u>, M. Simpson, R. Scovell, M. Mott, B. Beckmann, and N. Gaussiat</p>	<p><i>poster 63, abstract 294</i></p>
<p>MESOCYCLONE DETECTION AT MTO-FRANCE <u>Clotilde Augros</u>, Jean Imbert, Nicolas Gaussiat, Mickael Kreitz, Tony Le Bastard, and Maud Martet</p>	<p><i>poster 64, abstract 297</i></p>
<p>IT'S TIME FOR COLOR VISION DEFICIENCY FRIENDLY COLOR MAPS IN THE RADAR COMMUNITY <u>S. Collis</u>, R. Jackson, Z. Sherman, C Homeyer, K. Mühlbauer, R. Chase, S. Nesbitt, T. Lang, and D. Stechman</p>	<p><i>poster 65, abstract 306</i></p>
<p>MESOSCALE FACTORS IMPACTING STORM INITIATION OVER THE TORINO METROPOLITAN AREA, ITALY Enrico Solazzo, <u>Roberto Cremonini</u>, Renzo Bechini, Claudio Cassardo, and Alessandro Pezzoli</p>	<p><i>poster 66, abstract 315</i></p>

DIURNAL CYCLE OF PRECIPITATION AND WINDS IN CENTRAL PERUVIAN ANDES, USING CLOUD AND WIND PROFILING RADARS

Y. Silva and S. Chavez

poster 67, abstract 340

RADAR CHARACTERISTICS OF DEEP CONVECTION OCCURRED IN THE LAST DECADE ON THE TERRITORY OF SERBIA

Maja Rabrenovic

poster 68, abstract 369

MULTIFRACTAL ANALYSIS OF TROPICAL CYLCONE RADAR DATA: REMOVING MISSING DATA BIASES AND CONSEQUENCES FOR MESO-SCALE MODELLING

D. Schertzer, J. Lee, D. I. Lee, and I. Tchiguirinskaia

poster 69, abstract 400

Poster session on Airborne And Spaceborne Radars

New York

Thursday, 5 July 2018

COMPARISON OF PRECIPITATION TYPE ALGORITHMS

A. Tokay, B. Swick, P. Kirstetter, D. Marks, J. Pippitt, W. A. Petersen, and D. B. Wolff

poster 70, abstract 030

A METHOD FOR ESTIMATE OF RANGE VARIATION OF ATTENUATION FROM DUAL FREQUENCY RADAR AND DUAL POLARIZATION RADAR

Takahisa Kobayashi, Soichiro Sugimoto, Mitsuharu Nomura, Ahoro Adachi, Nobuhiro Nagumo, and Hiromaru Hirakuchi

poster 71, abstract 244

PRELIMINARY DESIGN STUDY OF AIRBORNE PHASED ARRAY WEATHER RADAR TARGETING THE TYPHOON OBSERVATION

N. Takahashi

poster 72, abstract 250

THE VERIFICATION OF PRECIPITATION CHARACTERISTICS FOR WARM AND COLD SEASON USING GPM AND GROUND INSTRUMENTS IN KOREAN PENINSULA

Choenglyong Lee, Gyuwon Lee, and Geunhyeok Ryu

poster 73, abstract 271

DUAL-POLARIZATION FOR CIVIL AIRCRAFT RADAR: EXPERIMENTS WITH A PROTOTYPAL SYSTEM IN THE NETHERLANDS AND IN ITALY

L. Baldini, F. Berizzi, A. Coccia, F. Cuccoli, M. D'Amico, S. Lischi, A. Lupidi, and F. Milani

poster 74, abstract 299

EVALUATIONS OF RAIN MICROPHYSICS RETRIEVAL USING GPM DPR THROUGH COMPARISON WITH A SELF-CONSISTENT NUMERICAL METHOD

E. Gorgucci and L. Baldini

poster 75, abstract 330

COMPARING THE GLOBAL PRECIPITATION MEASUREMENT MISSION WITH RADAR NETWORKS

P. Kirstetter, W. Petersen, D. Faure, N. Gaussiat, and D. Wolff

poster 76, abstract 357

WIVERN, A PROPOSED SATELLITE TO PROVIDE GLOBAL IN-CLOUD WINDS, ICE WATER CONTENT AND RAINFALL

A. J. Illingworth and A. Battaglia

poster 77, abstract 391