9th European Conference on Severe Storms

Pula, Croatia

18 – 22 September 2017

Programme
Sunday, 17 September 2017

Location: Conference Lobby
15:00–21:00

On site registration.

Location: Room Belica
17:00–19:00

ESSL General Assembly
For members of the European Severe Storms Laboratory.

All printed programme information as of 7 September 2017.

Please check local announcements or see ECSS message board or tweets for latest updates.

ECSS Twitter updates by @essl_ecss. Please use #ecss2017 for your tweets.

Coffee break catering is included in the registration fee, meals during lunch break are not.

Monday, 18 September 2017

Location: Room Ulika
09:00–09:30

A Opening

09:30–10:45

Session 2
Numerical modelling of storms, storm-scale data assimilation

09:30–09:45: ECSS2017-1
The Behavior and Characteristics of Squall Lines within Coastal Environments
Lombardo, Kelly; Kading, Tristan

09:45–10:00: ECSS2017-60
High-resolution ensemble data assimilation of a medicane event: challenges and benefits
Homar Santaner, Victor; Carrió Carrió, Diego; Stensrud, David

10:00–10:15: ECSS2017-94
Supercell predictability studies in support of NOAA Warn-on-Forecast
Potvin, Corey; Flora, Montgomery; Murillo, Elisa; Wicker, Louis

10:15–10:30: ECSS2017-113
Ensemble-based storm-scale analysis and prediction of severe convection: Assimilation of radar reflectivity
de Lozar, Alberto; Blahak, Ulrich; Seifert, Axel

10:30–10:45: ECSS2017-146
Correcting Storm Displacement Errors in Ensembles Using Feature Calibration and Alignment (FCA)
Stratman, Derek; Potvin, Corey; Wicker, Louis

10:45 Coffee break

11:30–11:45: ECSS2017-40
Simulations of devastating tornadoes embedded within supercell thunderstorms
Orf, Leigh

11:45–12:00: ECSS2017-181
Towards real-time high-resolution precipitation forecasts for the city of Rotterdam
Banks, Robert; Basu, Sukanta; Schleiss, Marc; Russchenberg, Herman

12:00–12:15: ECSS2017-157
The potential impact of unmanned aircraft systems on storm-scale numerical weather prediction of supercells: Results from ensemble sensitivity analysis and observing system simulation experiments
Houston, Adam; Limpert, George; Keeler, Jason
Session 7
Severe weather forecast training

16:45–17:15: ECSS2017-200
Pre-Testing Trainees in Forecaster Training Workshops
(solicited)
Doswell III, Charles A.

17:15–17:30: ECSS2017-134
Combined use of complementary methods for a continuous thunderstorm forecast
Hamann, Ulrich; Besic, Nikola; Beusch, Lea; Buzzi, Matteo; Clementi, Lorenzo; Figueras i Ventura, Jordi; Hering, Alessandro M.; Leonarduzzi, Elena; Leuenberger, Andreas; Nerini, Daniele; Nisi, Luca; Sassi, Marco; German, Urs

17:30–17:45: ECSS2017-69
Baltic+ 2017 course on Convection - Collaborative Effort for High Quality Convection Training
Marcinioniene, Izolda; Nietosvaara, Vesa

END OF ORAL PROGRAMME SESSION 3

Location: Conference Lobby

18:00–20:00

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Icebreaker Reception

Informal welcome cocktail and hors d’oeuvres.
Tuesday, 19 September 2017

Location: Room Ulika

09:00–13:00

Session 11
Storm climatologies, risk assessments and climate change

09:00–09:30: ECSS2017-168
Future of severe thunderstorm environments in Europe: simulated changes and uncertainties (solicited)
Pucik, Tomas; Groenemeijer, Pieter; Rädler, Anja; Tijssen, Lars

09:30–09:45: ECSS2017-103
Impact of climate change on intense rainfall events in the Ligurian Sea region due to strong MCSs
Gallus, William; Parodi, Antonio; Magheri, Maurizio

09:45–10:00: ECSS2017-129
The Tornado Climatology of Australia: Assessing Risk and Evolution Through Time
Allen, John; Allen, Edwina

10:00–10:15: ECSS2017-109
The modern climatology of Northern Eurasia tornadoes and waterspouts
Chernokulsky, Alexander; Kurgansky, Michael; Mokhov, Igor; Seleznева, Evgeniya; Shikhov, Andrey; Azhigov, Igor; Zakharchenko, Denis; Antonescu, Bogdan; Kühne, Thilo

10:15–10:30: ECSS2017-125
Tornadic storms in the Iberian Mediterranean area and Balearic Islands: study of sounding-derived parameters
Rodríguez, Oriol; Bech, Joan; García, Sergio

10:30–10:45: ECSS2017-139
Development of a globally consistent severe hail risk quantification model from reinsurance perspectives
Liu, Zhijuan; Yin, Jianming; Shinohara, Mizuki; Uchimura, Ryoma

10:45 Coffee break

11:00–12:15: ECSS2017-186
Estimating the combined risk due to hail, convective gusts and tornadoes
Haines, Philip; Griseser, Juergen

12:15–12:30: ECSS2017-150
A climatology of severe convective wind events in western central Europe
Kreitz, Michael; Gatzen, Christoph; Schielicke, Lisa; Leprince, Sébastien; Martet, Maud

12:30–12:45: ECSS2017-72
Climatological aspects of convective parameters over Europe: a comparison of ERA-Interim and sounding data
Taszarek, Mateusz; Brooks, Harold E.; Czernecki, Bartosz; Szuster, Piotr

12:45–13:00: ECSS2017-198
Trends of rain, wind-, snow- and thunderstorm events during the 21st Century according to regional climate models
Groenemeijer, Pieter; Púčik, Tomáš; Vajda, Andrea; Lehtonen, Ilari; Kämäräinen, Matti; Becker, Nico; Nissen, Katrin; Ulbrich, Uwe

END OF ORAL PROGRAMME SESSION 11

13:00 Lunch break

Location: Belica

14:30–16:00

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ECSS press briefing
16:00 Coffee break

Location: Room Ulika

16:45–18:15

Sessions 4 & 5
Convective storms within extratropical, Mediterranean and tropical cyclones & Floods and flash floods

16:45–17:00: ECSS2017-154
Vortex identification and interactions across the scales
Schielicke, Lisa; Gatzen, Christoph

17:00–17:15: ECSS2017-86
Tornado-like Vortices in a Meso-β-scale Vortex Associated with a Maritime Extratropical Cyclone: A Numerical Study
Tochimoto, Eigo; Yokota, Sho; Niino, Hiroshi; Yanase, Wataru

17:15–17:30: ECSS2017-152
Study of flash floods in Portugal by radar-rain gauge adjustment
Narciso, Paulo

17:30–17:45: ECSS2017-52
Understanding and PreDiction of Rainfall Associated with landFalling Tropical cyclones (UPDRAFT)
Wang, Yuan

17:45–18:00: ECSS2017-160
Analysis of the evolution of lapse rates in the early evolution of a European cold-season derecho
Gatzen, Christoph

18:00–18:15: ECSS2017-106
Entrainment rate of typhoon-associated supercells estimated by a large eddy simulation
Sueki, Kenta; Niino, Hiroshi

END OF ORAL PROGRAMME Sessions 4 & 5
Tuesday posters

Location: Conference Lobby

Attendance time: 14:30–16:00

Session 2
Numerical modelling of storms, storm-scale data assimilation

P1: ECSS2017-28  
Aircraft Moisture Observations: Their importance in Nowcasting and NWP  
Petersen, Ralph; Hoover, Brett; Daloz, Anne-Sophie; Cronce, Lee; Wagner, Tim; Williams, Skylar; Mamrash, Richard; Baker, Randy; Pauley, Patricia; Baker, Nancy

P2: ECSS2017-53  
Forecasting a wet microburst with high-resolution numerical models  
Pasi, Francesco; Capecchi, Valerio; Messeri, Gianni; Melani, Samanta; Antonini, Andrea; Gozzini, Bernardo

P3: ECSS2017-56  
Convection-permitting ensemble forecast system design  
Romine, Glen; Sobash, Ryan; Schwartz, Craig; Fossell, Kate

P4: ECSS2017-91  
Supercell Predictability: Exploring Ensemble Sensitivity to Initial Condition Spread  
Flora, Montgomery; Potvin, Corey; Wicker, Louis; Skinner, Patrick; Wheatley, Dusan; Knopfmeier, Kent

P5: ECSS2017-96  
A WRF-DART Study of the Nontornadic and Tornadic Supercells Intercepted by VORTEX2 on 10 June 2010  
Klees, Alicia; Richardson, Yvette; Romine, Glen

P6: ECSS2017-117  
Assimilation of dual-polarization radar observations into convective scale models  
Augros, Clotilde; Caumont, Olivier; Ducrocq, Véronique; Gaussiat, Nicolas

P7: ECSS2017-130  
Analysis of nocturnal convection initiation using convective-scale data assimilation of mobile radar and thermodynamic observations collected during PECAN  
Marquis, James; Wurman, Joshua; Romine, Glen; Weckwerth, Tammy; Wilson, Jim

P8: ECSS2017-137  
Assimilation of Radial Winds in an Ensemble Kalman Filter on the Convective Scale  
Bauernschubert, Elisabeth; Potthast, Roland; Blahak, Ulrich; Stephan, Klaus

Session 3
Impact of storms on society, impact mitigation and early warning systems

P9: ECSS2017-140  
Use of mesoscale models in operational severe weather forecast over large cities in Brazil - Results from the SOS-CHUVA Project  
D. Freitas, Edmilson; Machado, Luiz; Albrecht, Rachel; Todesco, Enzo; Peres, Jean; Bender, Andréia; Siqueira, Isabela; Martins, Jorge; Martins, Leila; Hallak, Ricardo; Vendrasco, Ed; Sanchez, Madeleine; Hernandez, Lianet

P11: ECSS2017-148  
The role of vertical grid spacing in the simulation of storms  
Martins, Jorge A.; Conceição, Ana F. G.; Martins, Leila D.; Moraes, Marcos V. B.; Fujita, Thais; Rudke, Anderson P.; Eiras, Marília M.; Brand, Veronika S.; Rafee, Sameh A. A.; Hallak, Ricardo; Freitas, Edmilson D.

P12: ECSS2017-167  
Behavior of Vertical-Vorticity Rivers in Simulated Supercells  
Dahl, Johannes; Weiss, Christopher; Bruning, Eric; Dowell, David; Alexander, Curtis

P13: ECSS2017-187  
A review of microphysics schemes within WRF model on the example of an isolated tornadic supercell in Poland on 20 June 2016  
Pilguj, Natalia; Pajurek, Łukasz; Szuster, Piotr

P14: ECSS2017-15  
Severe weather and citizen science - Chasing the Austrian storm spotter  
Keul, Alexander; Diaconu, Madalina

P15: ECSS2017-85  
Information on severe weather related damage as a background for better risk assessment  
Havrle Kozaric, Ivana; Placko-Vrsnak, Dunja

P16: ECSS2017-101  
Nowcasting warning tools in the Meteorological Service of Catalonia  
Cladera, Pere; Andrés, Aleix; Segalà, Santi; Aran, Montse

P17: ECSS2017-170  
Decision Support System for Winter Maintenance of the Motorways (DARS MDSS)  
Krmanc, Rok; Korošec, Marko; Šajn Slak, Alenka; CArman, Sano

P18: ECSS2017-178  
Design and preliminary test of a X-band polarimetric radar for gust detection system for safe railway operation  
Fujiwara, Chusei; Kusunoki, Kenichi; Inoue, Hanako; Ishitu, Naoki; Arai, Ken-ichiro; Onomura, Shiho; Suzuki, Hiroto
Tuesday posters continued

Location: Conference Lobby

Attendance time: 14:30–16:00

Sessions 4 & 5
Convective storms within extratropical, Mediterranean and tropical cyclones & Floods and flash floods

P19: ECSS2017-83
Heavy precipitation events during HyMeX SOP1 Intensive Observation Periods over Croatia: Evaluating CNRM-ALADIN52 regional climate model
Ivusic, Sarah; Gütter, Ivan; Horvath, Kristian

P20: ECSS2017-54
Continental Tropical Low pressures over southern Africa
Webster, Elizabeth; Dyson, Liesl

P21: ECSS2017-93
Flash Flood Forecast Verification - Croatia, 2016
Matic, Petra; Pelajic, Izidor

P22: ECSS2017-153
Analysis of run-off rates and tracks of the resulting flash floods during a heavy rain event in Vienna (Austria) on 24 May 2014
Strommer, Gabriel

P23: ECSS2017-77
Analysis of short-term rainfall time structure by concentration indexes
Müller, Miloslav; Bílůžák, Vojtěch; Kašpar, Marek

Session 6
Forecasting and nowcasting of severe weather

P24: ECSS2017-37
Significant-hail producing thunderstorms in Finland: Synoptic environment
Rauhalia, Jenni; Laurila, Terhi; Mäkelä, Antti; Jylhä, Kirsti

P25: ECSS2017-14
Development of a new seamless prediction system for very short range convective-scale forecasting at DWD
Blahak, Ulrich; Potthast, Roland; Wapler, Kathrin; Seifert, Axel; De Lozar, Alberto; Bauernschubert, Elisabeth; Welzbacher, Christian; Osinski, Robert; Rempel, Martin; Hoff, Michael; Junk, Markus; Bach, Liselotte

P26: ECSS2017-18
Excessive precipitation over parts of Germany in June 2016: Characteristics of the general weather situation and aspects of the forecast
Beyer, Marcus; Tuschy, Helge; Fruntke, Julia

P27: ECSS2017-25
Tracking of radar reflectivity cores and their characteristics - utilization in operational application
Kynzarova, Hana; Novak, Petr

P28: ECSS2017-39
A case study of a EF1 tornado in eastern Bohemia (Czech Republic) in 2016
Tomšů, Radek

P29: ECSS2017-43
Fog nowcasting system for Irkutsk airport
Bazlova, Tatiana; Bocharnikov, Nikolai; Solonin, Alexander

P30: ECSS2017-49
The use of prognostic spatial information at the evaluation of the QPF for heavy convective rainfalls
Zacharov, Petr; Rezačová, Daniela; Brožková, Radmila

P31: ECSS2017-50
Stability indices and wind shear for forecasting severe storm type over Bulgaria
Markova, Boryana; Dimitrova, Tsvetelina; Kadiyska, Nadezhda; Mitzeva, Rumjana

P32: ECSS2017-51
SOS-CHUVA - A Nowcasting Project
Machado, Luiz; Freitas, Edmilson; Vendrasco, Eder; Nacaratto, Kleber; Albrecht, Rachel; Vila, Daniel; Avila, Ana; Pilau, Felipe; Sanchez, Madeleine; Guarino, Luiz; Ribaud, Jean-François

Session 7
Severe weather forecast training

P33: ECSS2017-46
The advantages of using intra-cloud data for severe weather warnings
Rigo, Tomeu; Farnell, Carme

P34: ECSS2017-182
Step by Step Guidance for Monitoring Convection through Satellite Observations
Irsic Zibert, Mateja; Tusinska, Aleksandra; Nietosvaara, Vesa
Tuesday posters continued

Location: Conference Lobby
Attendance time: 14:30–16:00

Session 8
Satellite studies of storms and their environment

P35: ECSS2017-11
Comparison of satellite-, lightning- and radar observations in some severe thunderstorm cases
Simon, André; Putsay, Mária; Kocsis, Zsófia; Csirma, Kálmán; Szenyán, Ildikó

P36: ECSS2017-138
Numerical analysis of mesoscale shear in convective environments using data assimilation of super-rapid-scan GOES-derived wind vectors
Marquis, James; Wurman, Joshua

P37: ECSS2017-179
30 days reveal a lot - A cumulonimbus (CB) verification of the convective cloud mask by Berendes et al. (2008) in central Europe.
Schubert, Thomas

Session 11
Storm climatologies, risk assessments and climate change

P40: ECSS2017-6
Characteristics of convective wind gusts in Germany
Mohr, Susanna; Kunz, Michael; Richter, Alexandra; Ruck, Bodo

P41: ECSS2017-8
Ten years of tornadoes and waterspouts in Italy
Migletta, Mario Marcello; Matsangouras, Ioannis

P42: ECSS2017-20
Long-term characteristics of convective storms over the Czech Republic derived from 15-Yr datasets of lightning detection and weather radar measurements
Novak, Petr; Kyznarová, Hana

P43: ECSS2017-21
Florida’s Annual Expected Property Losses from Tornadoes
Elsner, James; Ryan, Emily; Strode, Georgiana; Mesev, Victor

P44: ECSS2017-30
Lightning activity in central Europe - preliminary climatology
Mikus Jurkovic, Petra; Strelec Mahovic, Natasa

P45: ECSS2017-38
Cold season tornadoes in Bulgaria
Bocheva, Lilia; Markova, Boryana

P46: ECSS2017-42
Estimating severe windstorm occurrence across Australia using Bayesian modelling
Spassiani, Alessio; Mason, Matthew; Krupar III, Richard J.

P47: ECSS2017-48
Favorable meteorological conditions for different types of organized convection
Bláskovíč, Marko; Strelec Mahović, Nataša; Mikuš Jurković, Petra; Renko, Tanja

P48: ECSS2017-62
Temporal and spatial variability of convective predisposition across Europe and potential drivers
Kunz, Michael; Piper, David; Mohr, Susanna

P49: ECSS2017-75
A satellite-based study of tornado climatology in forested regions of northeast Europe
Shikhov, Andrey; Chernokulsky, Alexander

P50: ECSS2017-78
Effects of orography on spatial distribution of convective precipitation in Banská Bystrica district (Slovakia)
Kvák, Róbert; Müller, Miloslav

P51: ECSS2017-88
Modeling and Correcting Reporting Biases in the Storm Prediction Center Tornado Database
Potvin, Corey; Broyles, Chris; Skinner, Patrick; Brooks, Harold

P52: ECSS2017-89
Ten-year lightning patterns in Catalonia using Multivariable Analysis
Aran, Montse; Peña, Juan Carlos; Pineda, Nicolau; Soler, Xavier; Pérez-Zanón, Núria

P53: ECSS2017-90
Summertime hailstorms over Switzerland in surrogated climate change simulations
Martynov, Andrey; Nisi, Luca; Martius, Olivia

P54: ECSS2017-111
Modelling Hail Impact, part 2: From hazard to loss
Hill, Marc; Grieser, Juergen

P55: ECSS2017-115
Long-term variations and trends in the occurrence of thunderstorms in Finland
Laurila, Terhi; Mäkelä, Antti; Jylhä, Kirsti
Tuesday posters continued

Location: Conference Lobby

Attendance time: 14:30–16:00

P56: ECSS2017-116
Modelling Hail Impact, part 1: How many hail stones of what size?
Grieser, Jürgen; Hill, Marc

P57: ECSS2017-120
A Cloud-to-Ground Lightning Climatology for Basque Country
Gaztelumendi, Santiago; Etxezarreta, Arkaitz; Egaña, Joseba; Aranda, José Antonio

P58: ECSS2017-132
Statistical analysis of the spatial and temporal distribution of tornadoes in Germany
Kühne, Thilo; Kollmohr, Andreas; Hubrig, Martin; Sävert, Thomas; Schlenczek, Oliver; Simon, Werner; Wichmann, Heiko

P59: ECSS2017-147
Future convective weather risks in Europe and Near East
Kahraman, Abdullah

P60: ECSS2017-173
100 Years after Alfred Wegener’s Opus on Tornadoes in Europe
Antonescu, Bogdan; Ricketts, Hugo; Schultz, David M.

P61: ECSS2017-189
Analysis of severe convective wind gusts in Serbia
Rabrenović, Maja; Gatzen, Christoph

P62: ECSS2017-193
Comparison between European and US severe convective weather environments
Rädler, Anja T.; Pucik, Tomas; Groenemeijer, Pieter; Tijssen, Lars

P64: ECSS2017-197
Decadal Predictability of Convective Hazards: A Possibility?
Tijssen, Lars; Groenemeijer, Pieter; Rädler, Anja

P65: ECSS2017-122
The Cerdanya-2017 field experiment: preliminary analysis of storm events
Bech, Joan; Trapero, Laura; Soler, Maria Rosa; Udina, Mireia; Paci, Alexandre; Garcia-Benadi, Albert; Gonzalez, Sergi; Miró, Josep Ramon; Mercader, Jordi; Molinié, Gilles; Codina, Bernat; Albalat, Anna; Rossell, Angela

Session 14
Additional posters (Tuesday)

P66: ECSS2017-87
Characteristics of Thunderstorms in Slovenia
Irsic Zibert, Mateja

END OF POSTER PROGRAMME
Wednesday, 20 September 2017

Location: Room Ulika

09:00–13:00

Session 6  
Forecasting and nowcasting of severe weather

09:00–09:30: ECSS2017-105  
What have we learned about high-shear low-CAPE severe weather? A review. (solicited)  
Parker, Matthew

09:30–09:45: ECSS2017-2  
Forecasting and Nowcasting Severe Weather Using the Operational Warning Decision Support System AutoWARN at DWD  
Reichert, Bernhard

09:45–10:00: ECSS2017-5  
Performance of a waterspout forecasting method using high resolution numerical weather model  
Ivusic, Sarah; Renko, Tanja; Telisman Prtenjak, Maja; Horvat, Igor; Soljan, Vinko; Szilagyi, Wade

10:00–10:15: ECSS2017-7  
Numerical simulations of a tornadic supercell in the Mediterranean  
Miglietta, Mario Marcello; Mazon, Jordi; Rotunno, Richard

10:15–10:30: ECSS2017-23  
Evaluation of ECMWF products for forecasting severe convection  
Tsonevsky, Ivan; Doswell III, Charles A.; Brooks, Harold; Pillosu, Fatima; Hewson, Tim

10:30–10:45: ECSS2017-44  
Utilization of a 3D High-Precision Network (LINET) for Optimized Nowcasting of Hail  
Moehrlein, Matthias; Riso, Silvia; Betz, Hans-Dieter

10:45 Coffee break

11:30–11:45: ECSS2017-55  
Remote sensing: data combination as a key for storm nowcasting  
Valachova, Michaela; Kyznarova, Hana; Novak, Petr; Setvak, Martin

11:45–12:00: ECSS2017-81  
Analysis of May 13th 2015 tornado event at Gerbepal (France) using radar, lightning and NWP model data  
Le Bastard, Tony; Kreitz, Michael; Baille, Sébastien; Prévot, Daniel

12:00–12:15: ECSS2017-118  
The use of self-organizing maps to characterize the tornadic near-storm environment  
Anderson-Frey, Alexandra; Richardson, Yvette; Dean, Andrew; Thompson, Richard; Smith, Bryan

12:15–12:30: ECSS2017-119  
Object-based operational nowcasting of severe thunderstorms in the Alpine area  
Hering, Alessandro; Nisi, Luca; Hamann, Ulrich; Besic, Nikola; Trefalt, Simona; Germann, Urs

12:30–12:45: ECSS2017-191  
Forecasts of convective storms using 3-km and 1-km horizontal grid spacing: When is higher resolution needed?  
Sobash, Ryan; Schwartz, Craig; Romine, Glen; Weisman, Morris

12:45–13:00: ECSS2017-13  
A multi-data process study of a severe hail storm in complex topography  
Trefalt, Simona; Martynov, Andrey; Germann, Urs; Martius, Olivia

END OF ORAL PROGRAMME SESSION 6

13:00 Lunch break

14:30–23:00

Social Events

14:30  
Bus transfer from the hotel Histria (ECSS venue) to Fažana. Meeting place in front of hotel Histria.

15:30  
Boat departs from Fažana for NP Brijuni (island tour, no drinks or meals included).

19:30  
Boat returns to Fažana from NP Brijuni

20:00  
Return to the hotel Histria (ECSS venue) via bus transfer.

21:00  
Conference Dinner at hotel Histria (ECSS venue) and giving of the Nikolai Dotzek Award.
Thursday, 21 September 2017

Location: Room Ulika

09:00–10:45

Session 1
Convective storm and tornado dynamics

09:00–09:30: ECSS2017-163
The regulation of tornado intensity by updraft width (solicited)
Trapp, Robert; Marion, Geoffrey; Nesbitt, Stephen

09:30–09:45: ECSS2017-104
Above-ground thermodynamic observations in supercell thunderstorms obtained from pseudo-Lagrangian drifters
Markowski, Paul; Richardson, Yvette; Richardson, Scott

09:45–10:00: ECSS2017-66
The TWIRL (Tornado Winds from In-situ and Radars at Low-level) Project: Part 1: Project Overview and Combined Radar-in situ-damage analyses
Kosiba, Karen; Wurman, Josh

10:00–10:15: ECSS2017-67
TWIRL: Part 2: Very Fine-Scale Dual-Doppler and In Situ Analysis of a Strong Tornado
Wurman, Josh; Bluestein, Howard; Kosiba, Karen; Reif, Dylan; Robinson, Paul; Wienhoff, Zachary

10:15–10:30: ECSS2017-143
Numerical simulations of tornadoes in complex urban landscape
Jewtoukoff, Valérian; Markowski, Paul; Richardson, Yvette

10:30–10:45: ECSS2017-155
Preliminary Results from the 2016 and 2017 VORTEX-SE Project
Weiss, Christopher; Bruning, Eric; Dahl, Johannes; Dowell, David; Alexander, Curtis; Hill, Aaron; Chmielewski, Vanna

END OF ORAL PROGRAMME Session 1

10:45 Coffee break

11:30–13:00

Session 9
Radar studies of storms

11:30–12:00: ECSS2017-165
Hail frequency in central Europe estimated from 2D radar data and the relation to atmospheric characteristics (solicited)
Kunz, Michael; Fluck, Elody; Baumstark, Sven; Wandel, Jan; Ritz, Stefan; Geissbuehler, Peter; Schemm, Sebastian; Schmidberger, Manuel

12:00–12:15: ECSS2017-3
Tornadogenesis and tornado evolution documented using rapid-scan, mobile, Doppler radars
Bluestein, Howard; Thiem, Kyle; Wienhoff, Zach; Reif, Dylan; Snyder, Jeffrey; Houser, Jana

12:15–12:30: ECSS2017-45
Mesoscale Convective Systems in the Western Mediterranean
Rigo, Tomeu; Berenguer, Marc

12:30–12:45: ECSS2017-63
Radar and satellite observations of a severe wet microburst over Tuscany
Melani, Samantha; Antonini, Andrea; Pasi, Francesco; Capecchi, Valerio; Messeri, Gianni; Ortolani, Alberto; Gazzini, Bernardo

12:45–13:00: ECSS2017-22
Tracking hailswaths on radar data between 2002 and 2016: a new perspective for climatological studies of hail in the Alps.
Nisi, Luca; Hering, Alessandro; Germann, Urs; Martius, Olivia

END OF ORAL PROGRAMME SESSION 9

13:00 Lunch break

Location: Room Belica

15:00–16:30

F
CWG splinter meeting

On invitation. Meeting of the EUMETSAT Convection Working Group.

16:00 Coffee break
Location: Room Ulika
16:45–18:15

Session 8
Satellite studies of storms and their environment

16:45–17:15: ECSS2017-27
Potential of stereoscopic imagery based on Meteosat Second Generation satellites (solicited)
Kaňák, Ján; Okon, Luboslav; Setvák, Martin; Diószeghy, Márta; Nietosvaara, Vesa

17:15–17:30: ECSS2017-12
Satellite observations of gravity waves, generated by convective storms
Setvák, Martin; Wang, Pao K.; Šťastka, Jindřich; Radová, Michaela

17:30–17:45: ECSS2017-41
Convective cloud detection product derived from Himawari-8/9 rapid scan observation
Sumida, Yasuhiro; Suzue, Hiroshi

17:45–18:00: ECSS2017-80
Convective growth and glaciation with Meteosat in relation to precipitation formation
Senf, Fabian; Deneke, Hartwig

18:00–18:15: ECSS2017-73
Spatio-temporal variation of hail features and associated mix phase microphysical properties as detected by satellite onboard sensors in two different climatic convective regimes
Sharma, Sanjay; Roy, Partha; Biswasharma, Rupraj

END OF ORAL PROGRAMME SESSION 8

Thursday posters
Location: Conference Lobby
Attendance time: 14:30–16:00

Session 1
Convective storm and tornado dynamics

P1: ECSS2017-32
Statistical features of near-ground tornadic vortices in comparison with radar-observed vortices aloft
Onomura, Shiho; Kusunoki, Kenichi; Inoue, Hanako; Ishitsu, Naoki; Arai, Ken-ichiro; Fujiwara, Chusei

P2: ECSS2017-34
A Linear Array of Wind and Pressure Sensors for High Resolution in situ Measurements in Winter Tornadoes
Kusunoki, Kenichi; Onomura, Shiho; Arai, Ken-ichiro; Fujiwara, Chusei

P3: ECSS2017-36
Two tornado events in Germany: Ingredients-based approach and cell merging
Tuschy, Helge; Fruntke, Julia; Beyer, Marcus

P4: ECSS2017-68
Plains Elevated Convection At Night (PECAN): Evaluating Severe Surface Wind Potential in a Nocturnal MCS
Kosiba, Karen; Wurman, Josh

P5: ECSS2017-142
Exploring the influence of outflow surges on developing and mature tornadoes using a toy model
Jewtoukoff, Valérian; Markowski, Paul; Richardson, Yvette

P6: ECSS2017-158
The sensitivity of simulated near-surface mesovortices to environmental vertical shear
Houston, Adam

P7: ECSS2017-159
On the role of deformation in the maintenance of (stationary) vortex systems
Schielicke, Lisa; Nevir, Peter; Müller, Annette

P8: ECSS2017-169
Measurement of the three dimensional velocity field of tornado-like vortex by the experimental study
Tanimoto, Saki; Sassa, Koji; Watanabe, Hanaka

Location: Room Ulika
18:20–19:00

Informal Photo and Video Session

Additional material on stereoscopic satellite imagery will be presented by Ján Kaňák. Also photos or videos of historical and recent European tornadoes will be shown by other presenters.
Thursday posters continued

Location: Conference Lobby
Attendance time: 14:30–16:00

Session 6
Forecasting and nowcasting of severe weather

P9: ECSS2017-59
New adjustments to the 3D convective cells identification applied to severe weather study cases.
*Ldel Moral, Anna*; *Rigo, Tomeu*; *Llasat, Maria Carmen*

P10: ECSS2017-64
Storm-Scale Ensemble Forecasts for the NOAA HWT Spring Forecasting Experiment and HMT FFaIR Experiment
*Kong, Fanyou*; *Xue, Ming*; *Jung, Youngsun*; *Brewster, Keith*; *Snook, Nathan*

P11: ECSS2017-79
Convection Nowcast for Air Traffic Management Verification
Šoljan, Vinko; Jurković, Jadran

P13: ECSS2017-100
Evaluation of 3 operational severe convective indexes on historical storms that have hit France.
Boisserie, Marie; *Dupont, Fabienne*; *Maynard, Karine*

P14: ECSS2017-110
Detection, tracking, and nowcasting of convective storms using KONRAD3D
Werner, Manuel

P15: ECSS2017-128
The use of a Semi-automated Severe Convection Checklist at MeteoSwiss Forecast Offices
Peyraud, Lionel; *Moret, Lionel*; *Ulrich, Didier*

P16: ECSS2017-136
Thunderstorm nowcasting by applying machine learning to a multi-sensor observation and NWP model data base
Beusch, Lea; *Clementi, Lorenzo*; *Hamann, Ulrich*; *Hering, Alessandro M.*; *Leonarduzzi, Elena*; *Nerini, Daniele*; *Nisi, Luca*; *Sassi, Marco*; *Germann, Urs*

P18: ECSS2017-151
Coastal flooding in Rovinj: the case of February 10th 2016.
Fustar, Lidija; *Botica, Kata*; *Ljubas, Tomislava*

P19: ECSS2017-171
Use of new radar products for nowcasting of severe storms
*Böhme, Tim*; *Herold, Christian*; *Schappert, Sebastian*

P20: ECSS2017-174
Development of operational waterspout forecast product for Adriatic Sea using ALADIN NWP model.
Horvat, Igor; *Renko, Tanja*; *Stanesić, Antonio*; *Szilagyi, Wade*

P21: ECSS2017-176
Supercell structures developed over Serbia associated to severe weather events in western Romania - a conceptual approach
Bugeac, Octavian Paul; Stefan, Sabina; *Mihajlovic, Goran*

P22: ECSS2017-196
Medium-range forecasting of convective hazards using ESSL’s Additive Regression Convective Hazard Model (ARCHaMo)
Tijssen, Lars; *Groenemeijer, Pieter*; *Rädler, Anja*

Session 9
Radar studies of storms

P23: ECSS2017-35
A study of anomalous radar signatures observed in Bulgaria regarding severe hail nowcasting
Georgiev, Stefan; *DImitrova, Tsvetelina*

P24: ECSS2017-47
An estimation of the dual-polarization C-band radar products in the hail events cases.
Liman, Lubov

P25: ECSS2017-61
Storm-scale surface analyses constructed from home AWS data for a severe hailstorm over northern England
Clark, Matthew; *Webb, Jonathan*; *Kirk, Peter*

P26: ECSS2017-74
Mini supercell accompanied by multiple vortex tornado in Kochi, Japan
Sassa, Koji; *Yuasa, Soichiro*

P27: ECSS2017-166
Occurrence of supercells in Slovakia in 2000 - 2012
Šinger, Miroslav

P28: ECSS2017-183
Spatial characterisation of hailstorms in Europe using radar data
Hartley, Sarah; *Chalmers, Mutahar*; *Grieser, Juergen*
Thursday posters continued

Location: Conference Lobby
Attendance time: 14:30–16:00

Session 10
Storm electrification, lightning, microphysics and hail

P29: ECSS2017-17
The rough Palagruža sailing ride - Analysis of a marine ball lightning event
Keul, Alexander; Diendorfer, Gerhard

P30: ECSS2017-24
Cloud electrification modelling - preliminary results
Sokol, Zbyněk; Minářová, Jana

P31: ECSS2017-31
Radar derived characteristics of hail events in Czechia
Skripniková, Kateřina; Rezáčová, Daniela; Kyznarová, Hana; Novák, Petr

P32: ECSS2017-57
Simulation of processes of artificial lightning initiation by model hydrometeors array using artificial thunderstorm cells
Temnikov, Alexander; Chernensky, Leonid; Lysov, Nikolay; Orlov, Alexander; Belova, Olga; Gerastenok, Tatiana; Zhuravkova, Daria; Kalugina, Inna

P33: ECSS2017-65
Lightning forecast for North Caucasus Region
Gubenko, Inna

P36: ECSS2017-108
Exploring thunderstorm patterns related to severe weather with Lightning Mapping Array data
Salvador Yuste, Albert; Pineda, Nicolau; Montanyà, Joan; Solà, Gloria; van der Velde, Oscar

P37: ECSS2017-121
A study of active thunderstorm episodes in Basque Country
Gaztelumendi, Santiago; Egaña, Joseba; Etxezarreta, Arkaitz; Aranda, José Antonio

P38: ECSS2017-180
Hail and Heavy Rain Events Measured by Videodisdrometer in Prague, Czech Republic
Chládová, Zuzana; Fišer, Ondřej; Pitaš, Karel; Skripniková, Kateřina

P39: ECSS2017-19
Comparison of haildata recorded on polygon in Austria and Croatia (2002-2016)
Počakal, Damir; Svabík, Otto

P41: ECSS2017-82
A hail climatology for South Africa
Dyson, Liesl; Pienaar, Nita

P42: ECSS2017-92
Summertime hailstorms over Switzerland in 2012-2015 in convection-permitting WRF simulations: assessment of modeling performance
Martynov, Andrey; Nisi, Luca; Martius, Olivia

P43: ECSS2017-123
Hail Size: What We Know Around the World
Allen, John; Tippett, Michael

Session 12 Collection of storm data, historical events and damage assessments

P44: ECSS2017-9
Sub-daily temporal reconstruction of historical extreme precipitation events using NWP model simulations
Blížňák, Vojtěch; Müller, Miloslav; Zacharov, Petr; Kašpar, Marek; Kvak, Róbert

P45: ECSS2017-33
Local enhancement of latent instability and vertical wind shear in the Alpine foreland during the 1984 Munich hailstorm case
Pucík, Tomáš; Zacharov, Petr; Groenemeijer, Pieter

P46: ECSS2017-71
Deadly Tornadoes in Poland from 1820 to 2015
Taszarek, Mateusz; Gromadzki, Jakub

P47: ECSS2017-95
Damage Assessment of the 2016 F2-Tornado near Karlstein, Lower Austria
Kaltenberger, Rainer; Weber, Manuel

P48: ECSS2017-124
A study of 13 september 2016 storm event in Basque Country
Egaña, Joseba; Principe, Olatz; Pierna, David; Gaztelumendi, Santiago

P49: ECSS2017-126
A study of convective severe storms in Basque Country during XXI century
Egaña, Joseba; Gaztelumendi, Santiago; Pierna, David; Principe, Olatz

P50: ECSS2017-156
Combined analysis of severe convective wind gusts in European data sets
Gatzen, Christoph; Kreitz, Michael; Leprince, Sébastien; Schieflcke, Lisa; Rabrenović, Maja; Enne, Sven-Eric

P51: ECSS2017-172
Crowd Sourcing of Weather Observations at European National Meteorological Services
Krennert, Thomas; Christian, Csekits
Thursday posters continued

Location: Conference Lobby
Attendance time: 14:30–16:00

P52: ECSS2017-184
Historic severe weather events in Austria (1815-1830): Impacts on society and magnitude assessments
Pfeifer, Katrin; Holzer, Alois M.

P53: ECSS2017-185
Historic severe weather events in Europe (414 BC - 1590)
Pfeifer, Katrin; Holzer, Alois M.; Kühne, Thilo

P54: ECSS2017-188
Experience after 1 year of EWOB
Holzer, Alois M.; Groenemeijer, Pieter; Riemann-Campe, Kathrin; Antonescu, Bogdan

Session 13 Additional posters
(Thursday)

P56: ECSS2017-202
Probabilistic nowcasting of convective rainfall
Ośródka, Katarzyna; Jurczyk, Anna; Szturc, Jan; Giszterowicz, Mateusz

P57: ECSS2017-203
Sounding-Derived Parameters Associated with Convective Hazards in Europe
Taszarek, Mateusz; Brooks, Harold E.; Czernecki, Bartosz

END OF POSTER PROGRAMME
Friday, 22 September 2017

Location: Room Ulika

09:00–11:00

Session 10
Storm electrification, lightning, microphysics and hail

09:00–09:30: ECSS2017-97
Enhancing thunderstorm warnings in developing countries based on lightning location data (solicited)
Mäkelä, Antti; Laurila, Teeri; Pietarila, Harri

09:30–09:45: ECSS2017-10
Analysis of orographic influence on hail parameters in NW Croatia
Počakal, Damir; Večenaj, Željko; Mikuš, Petra; Grisogono, Branko

09:45–10:00: ECSS2017-84
Analysis and simulations of the 4 July 2007 large hailstorm in NE Italy
Manzato, Agostino (Tino); Riva, Valentino; Miglietta, Mario Marcello; Laviola, Sante

10:00–10:15: ECSS2017-107
 Numerical simulation of convective squall lines over Southwest England with detailed microphysical scheme
Sarkadi, Noémi; Geresdi, István; Thompson, Greg; Miltenberger, Annette; Rosenberg, Phil; Hill, Adrian

10:15–10:30: ECSS2017-145
 Mapping of thunderstorm charge structures by automated lightning leader speed analysis of Lightning Mapping Array data: applications and statistics
van der Velde, Oscar; Montanyà, Joan; López, Jesús Alberto; Pineda, Nicolau

10:30–10:45: ECSS2017-162
 The Impact of Vertical Wind Shear on Hail Growth in Simulated Supercell Storms
Kumjian, Matthew; Dennis, Eli

10:45–11:00: ECSS2017-112
 The life-cycle of hail storms: lightning, radar reflectivity and rotation characteristics
Wapler, Kathrin

END OF ORAL PROGRAMME SESSION 10

11:00 Coffee break

11:45–13:00

Session 12
Collection of storm data, historical events and damage assessments

11:45–12:00: ECSS2017-164
 Innovative approaches for crop hail damage assessment based on Radar and drone technologies
Tani, Satyanarayana; Paulitsch, Helmut; Fraundorfer, Friedrich; Süsser-Rechberger, Barbara; Teschl, Reinhard; Rumpler, Markus; Hofer, Manuel

12:00–12:15: ECSS2017-102
 Japanese Enhanced Fujita Scale: Its Development and Implementation
Niino, Hiroshi; Tamura, Yukio; Ito, Masaru; Kikitsu, Hitomitsu; Maeda, Junji; Okuda, Yasuo; Sakata, Hiroyasu; Shoji, Yoshinori; Suzuki, Satoru; Tanaka, Yoshinobu

12:15–12:30: ECSS2017-175
 Trusted Spotter Network Austria - Towards a New Standard in the Field of Crowd-Sourced Weather- and Impact-Observations?
Krennert, Thomas; Kaltenberger, Rainer; Pistotnik, Georg; Holzer, Alois M.; Zeiler, Franz; Stampfl, Mathias

12:30–12:45: ECSS2017-194
 The Role of Crowdsourcing in the Retrieval of Severe Weather Information in the Past, Present and Future
Pistotnik, Georg; Krennert, Thomas; Stadlbacher, Klaus

END OF ORAL PROGRAMME SESSION 12

13:00–14:15

D
Closing and Awards Session

Saturday, 23 September 2017

Location: Room Belica

09:00–18:00

G
Introduction seminar:
Forecasting of Severe Convective Storms by Dr. Charles A. Doswell.

On registration.
## Scientific programme overview - ECSS2017

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<thead>
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<th>Time</th>
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<td>A: OPENING SESSION</td>
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<td>11: Storm climatologies, risk assessments</td>
<td>1: Convective storm and tornado dynamics</td>
<td>10: Storm electrification, lightning, microphysics and hail</td>
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<td>11 continued: Storm climatologies, risk assessments and climate change</td>
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<td>9: Radar studies of storms</td>
<td>12: Collection of storm data, historical events and damage assessments</td>
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<td>7: Severe weather forecast training</td>
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<td>4 &amp; 5: Convective storms within extratropical, Mediterr. and tropical cyclones &amp; Floods and flash floods</td>
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<td>8: Satellite studies of storms and their environment</td>
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### On site registration desk – opening hours:

- Sun 15:00 – 21:00
- Mon 08:00 – 18:00
- Tue – Fri starting at 08:30
# Sidemeetings and social programme overview - ECSS2017

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<td>4 &amp; 5: Convective storms within</td>
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<td>extratropical, Mediterr. and tropical</td>
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<td>cyclones &amp; Floods and flash floods</td>
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**Sun, 17 Sep 2017: 17:00 ESSL General Assembly, room Belica.**

**Sat, 23 Sep 2017: 09:00 Introduction Seminar - Forecasting Severe Convective Storms, room Belica.**
The ECSS is kindly supported by

Munich RE

Local ECSS organizing partner:

DHMZ