8th European Conference on Severe Storms

Wiener Neustadt, Austria

14 – 18 September 2015

Programme
Sunday, 13 September 2015

Location: Sidemeeting room

17:00–19:00
SE1: ESSL General Assembly (by invitation only)

19:00–20:30
SOE1: Publishing your conference presentation - workshop by Prof. David Schultz

Monday, 14 September 2015

Location: Ballroom

09:00–09:30
SE-2: Opening Session

09:30–10:45
NWP: Numerical Weather Prediction

Chairperson: K. Mulder

09:30–10:00: ECSS2015-9
Simulation of historic European tornado events using the 20th Century Reanalysis
Brooks, Harold; Hoogewind, Kimberly; Gensini, Vittorio

10:00–10:15: ECSS2015-24
HyMeX IOP2b: observations and numerical simulations of a supercell over the Friuli-Venezia Giulia region (northeastern Italy)
Miglietta, Mario Marcello; Manzato, Agostino; Rotunno, Richard

10:15–10:30: ECSS2015-185
Model Error Impacts on High Resolution Ensemble Forecasts of Low-Level Rotation in the 31 May 2013 El Reno, Oklahoma Supercell
Skinner, Patrick; Wicker, Louis; Potvin, Corey; Mansell, Edward

10:30–10:45: ECSS2015-82
Comparison of 3-km analyses and forecasts from WRF-LETKF and WRF-EAKF ensembles
Potvin, Corey; Wheatley, Dustin; Knopfmeier, Kent; Wicker, Louis; Ladwig, Therese

Discussion

10:45 Coffee break

11:30–12:00: ECSS2015-5
The Interaction between QLCSs and Marine Atmospheric Boundary Layers
Lombardo, Kelly

12:00–12:15: ECSS2015-167
Utilizing radar-derived rotation tracks for verifying model-simulated rotation in convection-permitting ensemble forecasts
Dawson, Logan; Trapp, Robert; Romine, Glen; Baldwin, Michael

12:15–12:30: ECSS2015-149
Summer hailstorms over Switzerland in 2012-2014 - observed and simulated.
Martynov, Andrey; Nisi, Luca; Martius, Olivia

12:30–12:45: ECSS2015-135
The squall line of 4th October 2007 over the Western Mediterranean: attributing its predictability
Carrió Carrió, Diego; Homar Santaner, Víctor

12:45–13:00: ECSS2015-118
Data Assimilation of Ice-Water Mixing Ratios Estimated from Polarimetric Radar Observation
Yamaguchi, Kosei; Furuta, Kohei; Nakakita, Eiichi
13:00 Lunch break

14:30–15:45
**NOF: Nowcasting and Forecasting**

**Chairperson:** C. Gatzen

14:30–14:45: **ECSS2015-92**
Severe windstorms in Croatia in 2015
*Strelec Mahovic, Natasa*

14:45–15:00: **ECSS2015-25**
The EFI for forecasting severe convection
*Tsonevsky, Ivan*

15:00–15:15: **ECSS2015-42**
NowCastMIX – optimized automatic warnings from continuously monitored nowcasting systems based on fuzzy-logic evaluations of storm attributes
*James, Paul; Reichert, Bernhard; Heizenreder, Dirk*

15:15–15:30: **ECSS2015-52**
Exploring high-vertical resolution data sources for use in NearCasting
*Petersen, Ralph; Cronce, Lee; Aune, Robert; Line, William*

15:30–15:45: **ECSS2015-154**
Post-processing methods for probabilistic convection forecasts based on the limited-area ensemble COSMO-DE-EPS of DWD
*Wiegand, Lars; Gebhardt, Christoph*

16:30–16:45: **ECSS2015-77**
Discriminating downburst-producing and hail-bearing thunderstorms using total lightning and weather radar observations
*Rigo, Tomeu; Aran, Montse; Bech, Joan; Farnell, Carme; Mateo, Jordi; Pineda, Nicolau; Ripoll, Ricard; Serra, Aleix*

16:45–17:00: **ECSS2015-153**
Assessment of reanalysis-derived parameters as dichotomous predictors and neural network inputs for forecasting thunderstorms in Finland
*Ukkonen, Peter; Mäkelä, Antti*

17:00–17:15: **ECSS2015-73**
Cb-LIKE – Thunderstorm forecasts up to six hours with fuzzy logic
*Köhler, Martin*

17:15–17:30: **ECSS2015-80**
Fully automated thunderstorm warnings and operational nowcasting at MeteoSwiss
*Hering, Alessandro; Nisi, Luca; Della Bruna, Guido; Gaia, Marco; Nerini, Daniele; Ambrosetti, Paolo; Hamann, Ulrich; Trefalt, Simona; Germann, Urs*

17:30–17:45: **ECSS2015-13**
Nowcasting of Thunderstorm and Intense Rainfall events using dual Pol Radar and IWV-GPS
*Toledo Machado, Luiz Augusto; V. Mattos, Enrique; L. Medina, Bruno; Sapucci, Luiz F.*

17:45–18:00: **ECSS2015-168**
Nowcasting of heavy precipitation in the Alpine region: identification of optimal thresholds for alerts through statistical investigations (withdrawn)
*Panziera, Luca; Gabella, Marco; Ambrosetti, Paolo; Berme, Alexis; Germann, Urs*

Discussion

END OF ORAL PROGRAMME NOF

18:30–20:30
**SOE2: Icebreaker Reception**

Welcome Addresses by:

LOC Chair Alois M. Holzer, ESSL Director of Operations

Landesrat Dr. Stephan Pernkopf, Member of the Provincial Government, on behalf of the Governor of Lower Austria, Dr. Erwin Pröll

Vizebürgermeister Dr. Christian Stocker, Deputy Mayor of the City of Wiener Neustadt, on behalf of the Mayor of the City of Wiener Neustadt, Klaus Schneeberger
Tuesday, 15 September 2015

Location: Ballroom

09:00–13:00

CLIM: Climatology

Chairperson: J. Dahl

09:00–09:15: ECSS2015-139
Interannual variability in recent data of the European Severe Weather Database
Groenemeijer, Pieter; Kühne, Thilo; Pucik, Tomas; Tijssen, Lars; Westermayer, Anja; Holzer, Alois M.

09:15–09:30: ECSS2015-165
Convective wind gusts in Germany
Mohr, Susanna; Kunz, Michael; Kosch, Julia

09:30–09:45: ECSS2015-181
Analysis of a 18-year climatology of German derechos
Gatzen, Christoph; Andreas, Fink; Joaquim, Pinto; David, Schultz

09:45–10:00: ECSS2015-11
Mesocyclones in Central Europe as seen by Radar
Wapler, Kathrin; Hengstebeck, Thomas; Groenemeijer, Pieter

10:00–10:15: ECSS2015-143
Severe Hail over the United States and its Relationship to the Climate System
Allen, John; Tippett, Michael; Sobel, Adam

10:15–10:30: ECSS2015-166
An Evaluation of Predictions of Convective Environments using the Climate Forecast System Version 2 - Methods and Results
Stepanek, Adam; Trapp, Robert; Baldwin, Michael

10:30–10:45: ECSS2015-65
A refined assessment of recent trends in hail frequency and intensity in France
Berthet, Claude; Dessens, Jean; Sanchez, Jose-Luis

Discussion

10:45 Coffee break

11:30–11:45: ECSS2015-105
On the role of synoptic scale processes in severe local storm outbreaks
Doswell III, Charles; Shafer, Chad

11:45–12:00: ECSS2015-140
Tornado Outbreaks in Europe
Tijssen, Lars; Groenemeijer, Pieter

12:00–12:15: ECSS2015-33
Climatology of severe convective storm environments from ERA-interim
Tilev-Tanriover, Seyda; Schultz, David M.; Kadioglu, Mikdat

12:15–13:00: ECSS2015-156
Identification of thunderstorms in reanalysis data and development of a statistical convective initiation model
Westermayer, Anja; Groenemeijer, Pieter; Pistotnik, Georg; Sausen, Robert; Faust, Eberhard

12:30–12:45: ECSS2015-138
The representation of (severe) thunderstorm environments in Europe using different reanalysis datasets.
Pucik, Tomas; Tijssen, Lars; Groenemeijer, Pieter; Westermayer, Anja

12:45–13:00: ECSS2015-130
Tornadoes in Europe: Risk and vulnerability assessment
Antonescu, Bogdan; Schultz, David M.; Mulder, Kelsey; Vaughan, Geraint

END OF ORAL PROGRAMME CLIM

13:00 Lunch break

Location: Sidemeeting room

15:00 – 16:00

SE3: Press Conference

Initial Statements by:

Mag. Thomas Krennert, Member of the Local Organizing Committee, ZAMG Vienna (Moderator)

Dr. Pieter Groenemeijer, ESSL Director, ECSS Organizer

Dr. Bogdan Antonescu, Co-Chair of the Scientific Programme Committee

Dr. Harold Brooks, NSSL, USA

Stadtrat DI Franz Dinhobl, City of Wiener Neustadt
Location: Ballroom

16:30–18:00
SAT: Satellite

Chairperson: K. Lombardo

16:30–16:45: ECSS2015-10
Early detection of thunderstorms using satellite and radar observations
Hamann, Ulrich; Clementi, Lorenzo; Gabella, Marco; Germann, Urs; Hering, Alessandro M.; Nisi, Luca; Sassi, Marco

16:30–16:45: ECSS2015-10
Early detection of thunderstorms using satellite and radar observations
Hamann, Ulrich; Clementi, Lorenzo; Gabella, Marco; Germann, Urs; Hering, Alessandro M.; Nisi, Luca; Sassi, Marco

16:45–17:00: ECSS2015-74
Meteosat-based Characterization of the Initiation and Growth of Severe Convective Storms over Central Europe
Senf, Fabian; Denette, Hartwig

16:45–17:00: ECSS2015-74
Meteosat-based Characterization of the Initiation and Growth of Severe Convective Storms over Central Europe
Senf, Fabian; Denette, Hartwig

17:00–17:15: ECSS2015-106
Validation of the NearCast product over Europe during summer season 2015
Smiljanic, Ivan; Strelec Mahovic, Nataša; Petersen, Ralph

17:00–17:15: ECSS2015-106
Validation of the NearCast product over Europe during summer season 2015
Smiljanic, Ivan; Strelec Mahovic, Nataša; Petersen, Ralph

17:15–17:30: ECSS2015-51
Evaluating Properties of Intense Storms using MSG SEVIRI Observations and Derived Microphysical Properties
Mechikalski, John; Manzato, Agostino; Rosenfeld, Danny; Combs, Jerry

17:15–17:30: ECSS2015-51
Evaluating Properties of Intense Storms using MSG SEVIRI Observations and Derived Microphysical Properties
Mechikalski, John; Manzato, Agostino; Rosenfeld, Danny; Combs, Jerry

17:30–17:45: ECSS2015-14
Observations of Severe Storms from One-Minute GOES Imagery in the U.S. (withdrawn)
Lindsey, Daniel; Bikos, Dan; Schmit, Timothy

17:30–17:45: ECSS2015-14
Observations of Severe Storms from One-Minute GOES Imagery in the U.S. (withdrawn)
Lindsey, Daniel; Bikos, Dan; Schmit, Timothy

17:45–18:00: ECSS2015-3
Details of storm top evolution in experimental 2.5-minute MSG rapid scan data
Setvak, Martin; Wang, Pao

17:45–18:00: ECSS2015-3
Details of storm top evolution in experimental 2.5-minute MSG rapid scan data
Setvak, Martin; Wang, Pao

Discussion

END OF ORAL PROGRAMME SAT

Location: Poster Area

Poster Session 1

Attendance Time: 14:30–16:00

P1: ECSS2015-1
An analysis of the meteorological parameters related to the waterspout development in the southern Adriatic Sea
Renko, Tanja; Strelec Mahović, Nataša; Irha, Hela

P2: ECSS2015-4
Mesoscale Convective Complex over Central Mediterranean on 20th September 2014
Soljan, Vinko; Mikuš Jurković, Petra, and Renko, Tanja

P3: ECSS2015-12
Characterisation of severe convective events using a multi-data approach
Wapler, Kathrin; Pardowitz, Tobias; Senf, Fabian

P5: ECSS2015-17
Analysis of an intense tropical-like cyclone over the western Mediterranean Sea through a combined modeling and satellite approach
Miglietta, Mario Marcello; Cerrai, Diego; Laviola, Sante; Cattani, Elsa; Levizzani, Vincenzo; Kim, Wanhee; Park, Seon K.; Cassardo, Claudio; Ricchi, Antonio; Carniel, Sandro

P6: ECSS2015-21
Development and verification of a real-time stochastic precipitation nowcasting system in Belgium
Foresti, Loris; Reyners, Maarten; Delobbe, Laurent

P7: ECSS2015-30
Long-term variability of thunderstorms and thunderstorm precipitation in southern Poland
Bielec-Bakowska, Zuzanna

P8: ECSS2015-31
Thailand riverine flood risk modeling and loss quantification from re/insurance perspectives
Hu, Xiaoting; Yin, Jianming; Murakami, Taro; Sasajima, Yuto; Ogane, Yoshiaki

P9: ECSS2015-34
Storm-Scale Ensemble Forecasts for the 2015 NOAA HWT Spring Forecasting Experiment: Comparison between Cycled EnKF and 3DVAR Ensembles
Kong, Fanyou; Xue, Ming; Jung, Youngsun; Brewster, Keith

P10: ECSS2015-38
Climatological analysis of tornado events in Bulgaria during the period 2001-2014
Bocheva, Liliya; Simeonov, Petio

P11: ECSS2015-40
Nowcasting of the hail storms with the COSMO NWP model
Sokol, Zbynek; Pesice, Petr

P12: ECSS2015-41
Regional distribution of torrential convective precipitation in Bulgaria (1990-2014)
Nikolova, Tsveta; Bocheva, Lilia; Simeonov, Petio; Marinova, Tania
P13: ECSS2015-45  
Instabilities and eddy systems in the upper atmosphere  
Simon, Werner

P14: ECSS2015-46  
Effect of frictional rain dissipation on hurricane intensity  
Sabuwala, Tapan; Giola, Gustavo; Chakraborty, Pinaki

P15: ECSS2015-50  
Development of a Coupled GOES-R Legacy Sounding NearCast with Convective Initiation Products to Improve Convective Weather Nowcasts  
Mecikalski, John; Cronce, Lee; Petersen, Ralph

P17: ECSS2015-54  
On the impact and benefits of AMDAR Water Vapor Observations to forecasts of hazardous weather events  
Petersen, Ralph; Cronce, Lee; Mamrash, Richard; Baker, Randy; Hoover, Brett

P18: ECSS2015-55  
An automated system for detection and short-range forecast of convective clouds with the use of Meteosat multispectral imagery  
Kolios, Stavros

P19: ECSS2015-58  
Trends and variability of joint distribution extreme climate indices over Thessaly plain, Greece  
Nastos, Panagiots T.; Matsangouras, Ioannis T.; Lazogiannis, Kostas; Poulos, Serafin

P20: ECSS2015-59  
Numerical investigation of severe convective weather using COSMO.GR model: A case study of tornado over western Greece on February 7, 2013  
Matsangouras, Ioannis; Avgoustoglou, Euripides; Nastos, Panagiots T.; Pytharoulis, Ioannis; Tzeferi, Theodora; Gofa, Flora; Bluestein, Howard B.

P21: ECSS2015-61  
3DVAR analysis for the 13 June 2014 Hailstorm Event around the Tokyo Metropolitan Area using Radial Velocity from Doppler Radar and Lidar  
Shimose, Ken-ichi; Shimizu, Shingo; Suzuki, Shin-ichi; Shusse, Yukari; Maesaka, Takeshi; Kieda, Koori; Iwanami, Koyuru

P22: ECSS2015-64  
Interactions between Oscillating Pacific-Japan Patterns and Summertime Wave Patterns associated with Tropical-cyclone Tracks over the Western North Pacific  
Ko, Ken-Chung; Liu, Jyun-Hong

P23: ECSS2015-67  
An extended perspective for Deep Moist Convective Initiation in the Alpine Region?  
Krennert, Thomas; Kainz, Astrid; Serafin, Stefano

P24: ECSS2015-69  
Storms with very heavy showers and hail in Basque Country: 23 June 2014 case.  
Gaztelumendi, Santiago; Egaña, Joseba; Martija, Maialen; Palacio, Virginia

P25: ECSS2015-70  
Heavy convective precipitation forecast using COSMO-CZ.EPS  
Zacharov, Petr; Řezácová, Daniela

P26: ECSS2015-75  
Thunderstorm and precipitation nowcasting system for Pulkovo airport  
Bazlova, Tatiana; Bocharnikov, Nikolay; Iakimainen, Nadezhda; Solonin, Alexander; Zamorin, Igor

P27: ECSS2015-76  
The evaluation of the operative QPF of convective rainfalls over the Czech territory  
Řezácová, Daniela; Zacharov, Petr; Brozkova, Radmila

P28: ECSS2015-83  
Sensitivity of idealized supercell simulations to horizontal grid spacing: Implications for Warn-on-Forecast  
Potvin, Corey; Flora, Montgomery

P29: ECSS2015-89  
Modelling of flash flood on small catchment  
Pesice, Petr; Sokol, Zbynek

P30: ECSS2015-90  
Sounding-derived parameters associated to tornadic storms in Catalonia  
Rodriguez, Oriol; Bech, Joan

P31: ECSS2015-94  
Environments supporting warm season nocturnal convection initiation during the Plains Elevated Convection at Night experiment  
Marquis, James; Wurman, Josh; Kosiba, Karen

P32: ECSS2015-97  
Evolution of atmospheric humidity flux from the SIRGAS-CON Network during five consecutive severe storms near to the Andes Range  
Calori, Andrea; Brunini, Claudio; Santos, Jorge Ruben; Hierro, Rodrigo; Blanco, Magali; Llamado, Pablo; Pessano, Horacio; Alexander, Pedro; de la Torre, Alejandro

P33: ECSS2015-100  
Detection and Understanding of the role of Split Cold Fronts in the Generation of Severe Convective Storms  
Koch, Steven

P34: ECSS2015-102  
Large-Scale Conditioning for Enhanced Severe Convective Storm Risk  
Hamilton, David; Bachiochi, David

P35: ECSS2015-104  
Refined tornado climatology of France  
Wesolek, Emmanuel; Mahieu, Pierre

P36: ECSS2015-115  
An analysis of the Northern Hemisphere severe convective environment in the ERA-Interim re-analysis and CMIP5 models  
Russell, Andrew

P37: ECSS2015-119  
Basic Development of Urban Meteorological Model Based on Large-Eddy Simulation for Investigation on Convection Genesis  
Yamaguchi, Kosei; Takami, Kazuya; Nakakita, Eiichi
P38: ECSS2015-120
Mature convection distribution over Europe based on 6-years Meteosat observations of anvils and overshooting tops.
Kaňák, Ján

P39: ECSS2015-123
ManUniCast: A Real-Time Weather and Air-Quality Forecasting Portal and App for Teaching
Schultz, David; Anderson, Stuart; Fairman, Jonathan; Lowe, Douglas; McFiggans, Gordon; Lee, Elsa; Seo-Zindy, Ryo

P40: ECSS2015-132
Comparison of ERA-interim reanalysis-derived proxy soundings with Collocated Radiosonde Observations
Tilev-Tanriover, Şeyda; Antonescu, Bogdan

P41: ECSS2015-136
Comparison of sounding observations and reanalyses of thunderstorm environments
Westermayer, Anja; Pucik, Tomas; Groenemeijer, Pieter; Tijssen, Lars

P42: ECSS2015-137
Impacts of KITCube extra observations on the prediction of the HyMeX IOP13 severe weather event
Homar Santaner, Víctor; Carrió Carrió, Diego; Corsmeier, Ulrich

P43: ECSS2015-134
Proximity soundings of severe and non-severe thunderstorms in Central Europe
Pucik, Tomas; Groenemeijer, Pieter; Ryva, David; Kolar, Miroslav

P44: ECSS2015-141
The long series of storm days in Northern and Central Europe and their dependence on the synoptic conditions
Grabowska, Katarzyna; Poplawska, Joanna; Grabowski, Tomasz

P45: ECSS2015-144
The Tornado Climatology of Australia 1795-2014
Allen, John; Allen, Edwina

P46: ECSS2015-161
The ESSL Testbed: Forecaster training and evaluation of forecast and nowcast tools
Groenemeijer, Pieter; Holzer, Alois M.; Pucik, Tomas; Taszarek, Mateusz

P47: ECSS2015-169
Characteristics of overshooting tops as seen by Meteosat - selected cases in 2014 over Slovenia
Irsic Zibert, Mateja; Zibert, Janez

P48: ECSS2015-177
A climatology of cloud-to-ground lightning for the period 2002-2013 in Poland based on PERUN lightning detection network.
Taszarek, Mateusz; Czernecki, Bartosz; Koziol, Aneta

P49: ECSS2015-178
Heavy rainfall in Kochi accompanied by two typhoons
Sassa, Koji; Yoshimura, Kotaro

P50: ECSS2015-182
Tornado Climatology of Poland
Taszarek, Mateusz; Brooks, Harold

END OF POSTER PROGRAMME
**Wednesday, 16 September 2015**

**Location:** Ballroom

**09:00–12:30**

**FORE: National efforts at forecasting, warning and research**

**Chairperson:** D. Schultz

**09:00–09:45**  
The Future of Tornado Forecasting and the Role of the NWS Storm Prediction Center  
*Carbin, Greg*

**09:45–10:10:** ECSS2015-101  
Recent Developments and Future Plans for Fundamental Research at the NOAA National Severe Storms Laboratory  
*Koch, Steven*

**10:10–10:25:** ECSS2015-187  
Exceptional Rainfall over Nottinghamshire, 23 July 2013 - An Operational Meteorologist’s Perspective  
*Suri, Dan*

**10:25–10:40:** ECSS2015-127  
Assessment of Severe Weather Warning Systems in Europe  
*Holzer, Alois M.; Groenemeijer, Pieter; Půčik, Tomáš; Nissen, Katrin; Becker, Nico; Ulbrich, Uwe; Vajda, Andrea; Gregow, Hilppa; Juga, Ilkka; van Gelder, Pieter H. A. J. M.; Morales-Napoles, Oswald; Paprotny, Dominik*

**10:40 Coffee break**

**11:30–11:45:** ECSS2015-7  
Review of the meteorological extremes in 2014 and 2015 in Croatia  
*Renko, Tanja*

**11:45–12:00:** ECSS2015-164  
Seamless probabilistic forecast on severe storms  
*Wang, Yong*

**12:00–12:15:** ECSS2015-114  
A severe bow echo in Western Germany on June 9, 2014: Forecasting and warning of a high impact weather event with the help of different tools and methods  
*Beyer, Marcus; Tuschy, Helge*

**12:15–12:30:** ECSS2015-160  
Ingredients for Effective Severe Weather Satellite Training  
*Kerkmann, Jochen; Nietosvaara, Vesa*

**12:30–14:00**  
**SE4: Panel Discussion:**  
What is missing in severe storms forecasting in Europe?

**Social Events**

**15:00–17:00**

**SOE3:** Classical guided walking tour of Wiener Neustadt  
Meeting point at 15:00: Main square (Hauptplatz) at the entrance of Hotel Zentral

**15:00–17:00**

**SOE4:** “Tornado of 1916” guided walking tour  
Meeting point at 15:00: Main square (Hauptplatz) at the bus station (near Hotel Zentral)

**14:30–18:30**

**SOE5:** Train ride to the old Hungarian town of Sopron  
Meeting point at 14:30: Main train station, platform 21

**14:30–18:30**

**SOE6:** Swim and relax in the Asia Therme Linsberg spa  
Meeting point at 14:30: Shuttle bus stop Grazer Strasse 97

**19:00–23:00**

**SOE7:** Conference dinner  
Venue: Sparkassensaal (ECSS venue)
Thursday, 17 September 2015

Location: Ballroom

09:00–12:45
STORM: Storms, supercells and tornadoes
Chairperson: B. Antonescu

09:00–09:45
Confronting the effects of surface drag on severe storms using numerical simulations
Bryan, George

09:45–10:00: ECSS2015-95
How does surface drag affect the development of near-surface vertical vorticity in supercell thunderstorms?
Markowski, Paul; Richardson, Yvette

10:00–10:15: ECSS2015-22
Origin of Vertical Vorticity in Misocyclones along a Tornadic Narrow Cold Frontal Rainband in the United Kingdom
Mulder, Kelsey; Schultz, David

Upscale feedbacks associated with supercellular thunderstorms sampled during MPEX
Trapp, Robert; Woznicki, Joseph

10:30–10:45: ECSS2015-111
Barotropic and baroclinic contributions to the mid-level mesocyclone
Dahl, Johannes

Discussion
10:45 Coffee break

11:30–11:45: ECSS2015-163
Microphysical Pathways to Heavy Convective Rainfall
Lasher-Trapp, Sonia; Blyth, Alan; French, Jeff; Leon, David

11:45–12:00: ECSS2015-103
High-frequency Mobile Radar Measurements of Tornado Boundary Layer Flow
Weiss, Christopher; Cermak, Timothy; Reinhart, Anthony; Skinner, Patrick

12:00–12:15: ECSS2015-176
The sensitivity of convection initiation to the wind shear, lapse rate, and relative humidity in the active cloud-bearing layer
Houston, Adam

12:15–12:30: ECSS2015-96
Topography and vertical velocity of air in relation to severe storms near the Southern Andes Mountains
de la Torre, Alejandro; Pessano, Horacio; Hierro, Rodrigo; Santos, Jorge Ruben; Llamedo, Pablo; Alexander, Pedro

12:30–12:45: ECSS2015-190
Formation of intense atmospheric vortices: evidence from idealized numerical simulation
Odell, Luke; Tripoli, Gregory; Trevorro, Scott; Bucker, Marcus

Discussion
END OF ORAL PROGRAMME STORM

12:45 Lunch break
Location: Sidemeeting room

14:30–18:00
SE5: CWG Splinter Meeting (by invitation only)
Location: Ballroom

16:30–18:00
LI: Lightning
Chairperson: S. Lasher-Trapp

16:30–16:45: ECSS2015-48
Surprising sensitivity of lightning and related storm processes to environment on 4 June 2012 in West Texas
Sullivan, Vanna; Bruning, Eric; Ancell, Brian; Reinhart, Anthony

16:45–17:00: ECSS2015-188
Statistical study of lightning flash properties and thunderstorm charge structures inferred from the Lightning Mapping Array
van der Velde, Oscar; Montanya, Joan; Pineda, Nicolau

17:00–17:15: ECSS2015-28
Lightning in NE Italy and their weekly cycle
Manzato, Agostino (Tino); Cicogna, Andrea; Pucillo, Arturo

17:15–17:30: ECSS2015-147
Study of Lightning Flashes Based on Distinct Observation Data Sets Recorded During the HyMeX SOP1
Vergeiner, Christian; Defer, Eric; Schulz, Wolfgang; Pack, Stephan; Rison, William

17:30–17:45: ECSS2015-88
Characteristics of Thunderstorm Activity and Parameters of Lightning in the South of Russia
Adzhiev, Anatoly; Boldyreff, Anton; Kuliev, Dalhat; Kondratyeva, Natalia; Chochayev, Khizir

17:45–18:00: ECSS2015-142
Relationship between SYNOP observations and PERUN lightning detection network in Poland for the period 2002-2013
Taszarek, Mateusz; Czerniecki, Bartosz; Konarski, Jerzy; Kolendowicz, Leszek

Discussion
END OF ORAL PROGRAMME LI

18:30–19:30
SE6: ECSS Video Session
Location: Ballroom
Poster Session 2

Attendance Time: 14:30–16:00

P1: ECSS2015-6
Comparative hailpad analysis between Croatia and Greece
Počakal, Damir; Foris, Dimitrios

P2: ECSS2015-8
Analysis of lightning activity over Central Europe for the period 2008-2014
Mikus Jurkovic, Petra; Strelec Mahovic, Natasa

P3: ECSS2015-16
Severe Thundershowers Over the Central Part of Latvia on 29 July 2014
Avotniece, Zanita; Smite, Santa

P4: ECSS2015-18
An EF3 multi-vortex tornado over southern Italy: a retrospective analysis by means of observations, pictures and videos
Migletta, Mario Marcello; Rotunno, Richard

P5: ECSS2015-20
Extended radar-based hail detection testing over the Czech territory
Skripniková, Kateřina; Kyznarová, Hana; Novák, Petr

P6: ECSS2015-26
Case study of severe convective storms over western Bulgaria: flash floods and extreme hail on 08 July 2014
Bocheva, Liliya; Dimitrova, Tsvetelina; Atanasov, Atanas; Penchev, Rosen; Gospodinov, Ilian; Simeonov, Petio; Petkov, Stanimir

P7: ECSS2015-27
Possible occurrence of tornado near Teplice in northern Bohemia in May 2011
Tomší, Radek

P8: ECSS2015-29
Three Body Scatter Spike (TBSS) observed in Bulgaria – analysis of reflectivity and radial velocity signature (withdrawn)
Dimitrova, Tsvetelina; Dimitrov, Rumen

P9: ECSS2015-32
Is there a difference in the environmental conditions at the development of severe and non-severe hailstorms over Bulgaria?
Markova, Boryana; Mitzeva, Rumjana; Dimitrova, Tsvetelina; Atanasov, Atanas

P10: ECSS2015-39
Use of GNSS water vapour for severe weather studies in Bulgaria: hail and heavy rain in 2012
Guerova, Guergana; Slavchev, Martin; Mitzeva, Rumjana; Dimitrova, Tsvetelina; Simeonov, Tsvetan

P11: ECSS2015-43
Development and verification of a lightning nowcast in the nowcasting system INCA-BE
Reyniers, Maarten

P12: ECSS2015-47
Relation of radar and hail parameters in the continental part of Croatia
Počakal, Damir

P13: ECSS2015-57
Close-range observations of tornado activities made with a dual-polarization, X-Band, mobile Doppler radar in urban area of Athens, Greece
Matsangouras, Ioannis; Kalogiros, Ioannis; Nastos, Panagiotis T.; Anagnostou, Marios N.; Pytharoulis, Ioannis; Bluestein, Howard B.

P14: ECSS2015-60
Tornado numerical analysis: A case study of EF3 and EF4 tornadoes over Arkansas on April 27, 2014
Matsangouras, Ioannis; Nastos, Panagiotis T.; Pytharoulis, Ioannis; Bluestein, Howard B.

P15: ECSS2015-63
Characteristics of time series data of wind velocity observed by anemometers when the gust occurred
Tanimoto, Saki; Araki, Keiji; Fukuhara, Takaaki

P16: ECSS2015-66
A long-lived supercell in Alpine environment
Scheffknecht, Phillip; Serafin, Stefano; Grubi, Vanda

P17: ECSS2015-68
Storm with anomalous movement in Bilbao area: 28 August 2013 case.
Egaña, Joseba; Gaztelumendi, Santiago; Palacio, Virginia; Martija, Maialen

P18: ECSS2015-71
A tornado in Basque Country?: the 23 june 2014 case.
Gaztelumendi, Santiago; Egaña, Joseba; Etxezarreta, Arkaitz; Maruri, Mercedes; Martija, Maialen; Aranda, José Antonio; Anitua, Pedro

P19: ECSS2015-72
Radar Signatures of hail during 2013 Convective Severe Storms in the Basque Country,
Maruri, Mercedes; Martija, Maialen; Egaña, Joseba; Etxezarreta, Arkaitz; Gaztelumendi, Santiago; Aranda, José Antonio; Anitua, Pedro

P20: ECSS2015-79
Plains Elevated Convection at Night (PECAN): Preliminary Analyses of Severe Surface Wind Production during the Transition from Daytime-to-Nocturnal Convection
Wurman, Josh; Kosiba, Karen

P21: ECSS2015-85
Exploring the sensitivity of supercell forecasts to initial condition resolution
Potvin, Corey; Murillo, Elisa M.

P22: ECSS2015-86
A violent tornado in mid-18th century Germany: the Genzmer Report
Feuerstein, Bernold; Kühne, Thilo

P23: ECSS2015-87
Analysis of the 30 May 2014 tornadic storm in Vilabella, Catalonia
Bech, Joan; Castán, Salvador; Arús, Joan; Pascual, Ramon; Cuevas, Gabriela; Rigo, Tomeu; Pineda, Nicolau; Montanyà, Joan; van der Velde, Oscar
P24: ECSS2015-91
The Influence of Weather on the Atmospheric Electric Field Variations
Adzhiev, Anatoly; Boldyreff, Anton; Daurova, Zaira; Kuzmin, Vladimir; Kupovkhy, Gennady

P25: ECSS2015-93
Investigating the potential of using X-band polarimetric parameters to detect cloud-to-ground lightning in the warm season in Kanto region, Japan
Sakurai, Namiko; Shimizu, Shingo; Shusse, Yukari; Iwasami, Koyuru; Suzuki, Shin-ichi; Maesaka, Takeshi; Kieda, Kaori

P26: ECSS2015-98
The impact of global warming on extreme precipitation of two metropolitan regions in Southeastern Brazil
Cavalcanti, Iraçema; Nunes, Luci

P27: ECSS2015-107
Radar based Analysis of convective storms: Detecting mesocyclonic rotation and depicting paths of severe cells
Hengstebeck, Thomas; Heizenreder, Dirk

P28: ECSS2015-110
The LEWP event of January 03 th 2012 in the Netherlands
R.M. Groenland, Robertus; Boonstra, Rutger; Rondinel, Ricardo

P29: ECSS2015-112
Analysis of seemingly unphysical vertical vorticity evolution along simulated outflow trajectories
Vande Guchte, Andrew; Dahl, Johannes

P30: ECSS2015-113
Initial observations from the Kinematic Texture and Lightning (KTaL) Experiment
Bruning, Eric; Sullivan, Vanna; Salinas, Vicente; Berkseth, Samantha; Ware, Philip; Weiss, Stephanie

P31: ECSS2015-35
A severe bow echo in Western Germany on June 9, 2014: Aspects in forecasting and the use of latent heat nudging to optimize regional models
Tuschy, Helge; Beyer, Marcus

P32: ECSS2015-117
Composite Analysis on Structure of Tornado-spawning Tropical Cyclones Using CAPE Including the Effects of Entrainment
Sueki, Kenta; Niino, Hiroshi

P33: ECSS2015-124
The Tornado-Arbeitsgruppe Deutschland (TAD) - Introducing a work group in the field of tornadoes in Germany
Kollmohr, Andreas; Kühne, Thilo; Dirksen, Erik; Hubrig, Martin

P34: ECSS2015-125
Magnitude assessments of historical severe weather events in Lower Austria (1713-1754)
Pfeifer, Katrin; Holzer, Alois M.

P35: ECSS2015-126
Sounding-derived characteristics associated with some supercell storms over the Gauteng Province of South Africa
Rae, Kevin; Dyson, Liesl

P36: ECSS2015-131
Early theories on tornado formation in Europe
Antonescu, Bogdan

P37: ECSS2015-133
Radar study of a convective storm with splitting cells in a mountainous region above Central Germany
Böhme, Tim

P38: ECSS2015-145
Tornado occurrence in Greece: Influencing variables and spatio-temporal variations
Siouts, Michaelis; Dafis, Stavros; Papavasileiou, George; Doe, Robert

P39: ECSS2015-146
EF - Scale enlargement for wooden plants
Hubrig, Martin

P40: ECSS2015-150
Characteristics of the supercell causing Saitama tornado on 2 September 2013
Sassa, Koji; Furuta, Yasuko; Miyajima, Akiko

P41: ECSS2015-151
Hail formation in pre-frontal environments: A long-term study over Switzerland
Schemm, Sebastian; Nisi, Luca; Martynov, Andrey; Martius, Olivia

P42: ECSS2015-152
Size and intensity of vortex structures in a simulated idealized supercell as seen from the kinematic vorticity number
Schielicke, Lisa; Nevir, Peter; Ulbrich, Uwe

P43: ECSS2015-155
Ten-year lightning patterns in Catalonia using Principal Component Analysis
Aran, Montse; Peña, Juan Carlos; Pineda, Nicolau; Soler, Xavier; Pérez-Zanón, Nuria

P44: ECSS2015-157
Hail frequency in Europe based on overshooting cloud top detections filtered for hail-specific atmospheric conditions
Punge, Heinz Jürgen; Kunz, Michael; Bedka, Kristopher M

P45: ECSS2015-158
Hail probability in Central Europe related to orographic characteristics
Kunz, Michael; Schmidberger, Manuel; Fluck, Elody; Köbele, Daniel

P46: ECSS2015-159
The enhancement of vertical wind shear by tall mountains in convective storm environments
Kahraman, Abdullah; Markowski, Paul M.

P47: ECSS2015-162
Severe Convection in the Alpine region: a radar based hail climatology.
Nisi, Luca; Martius, Olivia; Hering, Alessandro; Germann, Urs

P48: ECSS2015-172
Radar analysis of two tornadoes occurred in the outer rainband of Typhoon 'Neoguri'
Yuasa, Soichiro; Sassa, Koji
P49: ECSS2015-173
First results of lightning and radar observations in Minas Gerais, Brazil
Held, Gerhard; Gomes, Ana Maria; Jusevicius, Marco; Beneti, Cesar A.; Paiva Neto, Arthur Chaves

P50: ECSS2015-175
Relating Thunderstorm Occurrence to Flow Types in the Eastern Alpine Region
Krennert, Thomas; Kainz, Astrid

P51: ECSS2015-179
Extratropical severe storms and UTLS Potential energy surges
Tripoli, Gregory J.

P52: ECSS2015-183
The application of UAS towards tornado research and forecasting
Houston, Adam; Limpert, George

P53: ECSS2015-184
Analysis of an outbreak of extremely severe weather followed by tornado in Serbia
Rabrenovic, Maja

P54: ECSS2015-189
Historical Damage Photograph Details of the Wiener Neustadt Tornado of 1916
Schreiner, Thomas M. E.; Stampfl, Mathias; Holzer, Alois M.

END OF POSTER PROGRAMME
Friday, 18 September 2015

Location: Ballroom

09:00–10:35
RAD: Radar

Chairperson: K. Wapler

09:00–09:20: ECSS2015-78
Plains Elevated Convection At Night (PECAN): Preliminary Analyses of Severe Surface Wind Production in a Nocturnal MCS
Kosiba, Karen; Wurman, Josh

09:20–09:35: ECSS2015-180
Wind, pressure and temperature fields near tornadic and non-tornadic narrow cold-frontal rain bands
Clark, Matthew; Parker, Douglas

09:35–09:50: ECSS2015-23
Signatures of Convective Wind Gusts from the Operational Radar Network in Switzerland
Trefalt, Simona; Martius, Olivia; Hering, Alessandro; Germann, Urs

09:50–10:05: ECSS2015-81
Advection correction of radar-based probability of hail in Belgium
Lukach, Maryna; Foresti, Loris; Delobbe, Laurent

10:05–10:20: ECSS2015-174
Characteristics of storm cells observed by the first polarimetric C-band radar in Minas Gerais
Gomes, Ana Maria; Lima, Maria Andrea; Held, Gerhard; Beneti, Cesar A.; Calvetti, Leonardo; Paiva Neto, Arthur Chaves

10:20–10:35: ECSS2015-122
Integrated Polarimetric Radar and Kinematic Analyses of the 19 May 2013 Norman-Shawnee, Oklahoma Tornadic Supercell
French, Michael; Burgess, Donald; Potvin, Corey; Wicker, Louis

Discussion

END OF ORAL PROGRAMME RAD

10:35 Coffee break

11:30–13:00
IMP: Impacts

Chairperson: N. Strelec Mahovic

11:30–11:45: ECSS2015-19
Hail losses under the microscope - Comparing losses from three major hail events of the recent past
Viktor, Elisabeth; Reese, Stefan; Zimmerli, Peter

11:45–12:00: ECSS2015-170
Impact-based evaluation of European severe weather reports
Kühne, Thilo; Groenemeijer, Pieter

12:00–12:15: ECSS2015-108
Financial losses of tornadoes in European countries
Grieser, Jürgen; Terenzi, Francesca

12:15–12:30: ECSS2015-36
The impact of severe convection on air traffic and forecast products for air traffic control
Winkler, Roland; Steinheimer, Martin; Kaltenböck, Rudolf

12:30–12:45: ECSS2015-37
Severe weather and psychology – Analysis of international survey data
Keul, Alexander; Brunner, Bernhard; Korff, Melanie; Sharma, Sanjay; Roy, Partha; Allen, John; Bowden, Katie A.; Aini, Mat Said; Elistina, Abu Bakar; Ab Kadir, Mohd Zainal Abidin; Gomes, Chandima; Taszarek, Mateusz

12:45–13:00: ECSS2015-116
Weather myths about convective storms: an objective assessment of their validity and their psychological basis
Göber, Martin; Karb, Anastasia; Wapler, Kathrin; Fleischhut, Nadine

END OF ORAL PROGRAMME IMP

13:00–14:00
SE7: Closing and Awards Session

Information as of 9 September 2015. Please check local announcements or see ECSS message board for latest updates.

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