

ECSS 2009 AGENDA

ORAL PRESENTATIONS

Sunday, 11 October 2009	
18:00	Registration
20:00	End of Sunday registration time

Monday, 12 October 2009	
08:00	Registration / Poster setup
Opening ceremony	
Chair: N. Dotzek	
09:00	Prof. Dr. Peter Höppe, Munich RE: <i>Opening Address</i>
09:10	Mr. Achim Baumhoer, Deutsche Bank: <i>“365 Landmarks in the Land of Ideas” award for the ESWD</i>
09:25	Dr. Nikolai Dotzek, ESSL and DLR: <i>Introduction to Landshut</i>

Monday, 12 October 2009	
Session 8: (Extra-)tropical cyclones: embedded thunderstorms & large-scale wind fields	
Chair: P. Markowski	
09:30	L. Garcies, V. Homar: <i>Sensitivities of Mediterranean intense cyclones: analysis and verification</i>
10:00	A. Vetrov, N. Kalinin: <i>A study of generation of available potential energy in South cyclones and hazard events over the Ural</i>
10:15	C. Price, Y. Yair, M. Asfur: <i>Lightning activity in hurricanes</i>
10:30	Poster setup / Coffee & Press Conference
11:00	O. Martinez-Alvarado, S. Gray: <i>Sting jets in climatological datasets</i>
11:15	C. Gatzen, T. Púčik: <i>Cold-season mesoscale convective systems in Germany</i>
Session 4: Climate change impacts on severe storms, development of adaptation concept	
Chair: H. Brooks	
11:30	P. Höppe: <i>Significant Increases in Frequencies and Intensities of Weather Related Catastrophes – what is the Role of Climate Change?</i>
12:00	A. Champion, K. Hodges, L. Bengtsson: <i>Extreme Precipitation: Current Forecast Ability and Climate Change</i>
12:15	J. Trapp, E. D. Robinson, M. E. Baldwin, N. S. Diffenbaugh: <i>High-resolution modeling of the effects of anthropogenic climate change on severe convective storms</i>
12:30	K. Riemann-Campe, R. Blender, N. Dotzek, K. Fraedrich, F. Lunkeit: <i>Future global distributions of CAPE and CIN</i>
12:45	Z. Cao: <i>Severe hail frequency over Ontario, Canada: recent trend and variability</i>
13:00	Lunch

Session 9A: Severe storm case studies	
Chair: C. Price	
14:30	G. Pistotnik, A. M. Holzer, R. Kaltenböck, S. Tschannett: <i>An F3 downburst in Austria - a case study with special focus on the importance of real-time site surveys</i>
15:00	J. Bech, N. Pineda, M. Aran, J. Amaro, M. Gayà, J. Arús, J. Montanyà, O. van der Velde: <i>An observational analysis of a tornadic severe weather event</i>
15:15	M. Korosec, J. Cedilnik: <i>Case study: Extensive wind damage across Slovenia on July 13th, 2008</i>
15:30	J. Marsham, S. Trier, T. Weckwerth, J. Wilson, A. Blyth: <i>Observed transition from an elevated mesoscale convective system to a surface based squall line: 13th June, IHOP_2002</i>
15:45	A. Pucillo, A. Manzato: <i>08/08/08: classification and simulation challenge of the FVG olympic storm</i>
16:00	Posters / Coffee
Session 5A: Forecasting of severe storms	
Chair: J. Rauhala	
16:30	P. Groenemeijer, J. Dahl, C. Gatzen, T. Púčik, O. Schlenczek, H. Tuschy, O. van der Velde: <i>Probabilistic severe weather forecasting at the European Storm Forecasting Experiment (ESTOFEX)</i>
16:45	A. Manzato: <i>Sounding-derived indices for forecasting hailstorms using ensembles of artificial neural networks</i>
17:00	P. Knightley: <i>Severe local storm forecasting in the British Isles</i>
17:15	D. Rezacova, P. Zacharov: <i>Forecasting QPF uncertainty for heavy rainfalls produced by local convective storms</i>
17:30	P. Santurette, C. Georgiev, C. Piriou: <i>A diagnostic tool based on MSG 6.2/7.3µm channel for the analysis and forecasting of deep convection</i>
17:45	M. Vich, R. Romero, V. Homar, H. Brooks: <i>Comparison of several Ensemble Prediction Systems applied to Mediterranean high impact cyclones associated with heavy rainfall and strong winds</i>
18:00	End of presentations
	Icebreaker
18:30	Dr. Thomas Gambke, Councillor, City of Landshut: <i>Welcome address</i>
18:45	Reception
21:00	End of day 1

Tuesday, 13 October 2009	
08:30	Registration
Session 9B: Severe weather field campaigns	
Chair: G. Craig	
09:00	H. Bluestein, D. Burgess, D. Dowell, <u>P. Markowski</u> , E. Rasmussen, Y. Richardson, L. Wicker, J. Wurman: <i>VORTEX2: The Second Verification of the Origins of Rotation in Tornadoes Experiment</i>
09:30	A. Blyth, K. Browning, J. Marsham, P. Clark, L. Bennett: <i>Observations of the initiation and development of severe convective storms during CSIP</i>
10:00	P. Groenemeijer, U. Corsmeier, C. Kottmeier: <i>The development of tornadic storms near a surface warm front in central England during the Convective Storm Initiation Project (CSIP)</i>
10:15	Y. Richardson, C. L. Ziegler, M. Buban, J. Marquis, J. Wurman: <i>Impact of Dryline Misocyclones on Convection Initiation on 19 June 2002 during IHOP</i>
10:30	Posters / Coffee & Group photo
11:00	A. Dörnbrack, G. Craig, S. Jones, H. Wernli: <i>T-NAWDEX - Basic Research allied to the future of NWP</i>
Session 10: Severe weather reporting and databases, e.g. applied to forecast evaluation	
Chair: J. Trapp	
11:15	H. Brooks, P. Marsh, A. M. Kowaleski, P. Groenemeijer, T. E. Thompson, C. S. Schwartz, C. M. Shafer, A. Kolodziej, N. Dahl, D. Buckley: <i>Evaluation of ESTOFEX Forecasts</i>
11:45	B. Antonescu, A. Bell, S. Burcea, D. Carbutaru: <i>Reporting on tornadic storms in Romania</i>
12:00	P. Groenemeijer, <u>T. Kühne</u> , Z. Liang, N. Dotzek: <i>New capabilities of the European Severe Weather Database</i>
12:15	K. Hauer: <i>Reporting on severe storms in Early Modern Time in the Netherlands and in the Eastern Alpine Region</i>
12:30	J.-P. Tuovinen, D. M. Schultz: <i>Building a database of severe weather phenomena: Severe hail in Finland</i>
12:45	M. Aran, C. Franell, M. Busto., A. Andres, N. Pineda, M. Torà: <i>The use of a hailpad network in a Meteorological Service. A comparative study with observational data: 17th September 2007</i>
13:00	Lunch
POSTER block I: Sessions 4, 5, 6, 8, 9, 10	
Chair: N. Dotzek	
14:15	Posters on display <i>Authors of named sessions in attendance</i>
Session 10: Severe weather reporting and databases, e.g. applied to forecast evaluation	
Chair: J. Trapp	
15:15	A. Kollmohr, S. Vössing: <i>New severe weather reporting system of Skywarn Germany - intention and first experience</i>
15:30	P. Mahieu, E. Wesolek: <i>The deadly EF-4 Tornado of August 3, 2008, in northern France</i>

Session 5A: Forecasting of severe storms	
Chair: J. Dessens	
15:45	P. Marquet, P. Santurette: <i>Convective parameters computed with ALADIN and AROME models for the Hautmont (F4) tornado</i>
16:00	Posters / Coffee
Session 5B: Nowcasting of severe storms	
Chair: J. Dessens	
16:30	C. Forster, A. Tafferfer, T. Zinner, H. Mannstein, S. Sényi, Y. Guillou: <i>Nowcasting of thunderstorms within a weather information and management system for flight safety</i>
16:45	R. Petersen, R. Aune: <i>Objective NearCasts of convective destabilization prior to isolated summer-time convective events using moisture products from Geostationary satellites</i>
17:00	P. Leitão: <i>Operational use of satellite and radar products at Portugal</i>
17:15	C. Price, M. Kohn, E. Galanti, K. Lagouvardos, V. Kotroni: <i>Nowcasting thunderstorm activity across the Mediterranean</i>
17:30	V. Meyer, H. Höller, H.-D. Betz, K. Schmidt: <i>Temporal Evolution of Total Lightning and Radar Parameters of Thunderstorms in Southern Germany and its Benefit for Nowcasting</i>
17:45	T. Schartner, P. Névir, G. C. Leckebusch, U. Ulbrich: <i>Analysis of Thunderstorms with the Dynamic State Index (DSI) in a Limited Area High Resolution Model</i>
18:00	End of presentations
18:15	Side meeting (<i>Bürgerzimmer</i>): Towards a new COST Action STORM
20:15	End of day 2

Wednesday, 14 October 2009	
08:30	Registration
Session 6: Numerical studies, e.g. of convective initiation, storm life cycles, phenomena	
Chair: K. Kosiba	
09:00	A. Seifert, M. Baldauf, C. Gebhardt, S. Theis: <i>Explicit forecasting of supercells with the operational COSMO-DE</i>
09:30	J.-B. Cohuet, R. Romero, V. Homar, V. Ducroq, C. Ramis: <i>Maritime convective initiation of the severe thunderstorm of 4 October 2007 in Mallorca: numerical experiments</i>
09:45	F. Feser, H. von Storch: <i>Multi-decadal dynamical downscaling of tropical cyclones in East Asia using spectrally nudged regional climate models</i>
10:00	D. Mastrangelo, K. Horvath, M. M. Miglietta, A. Moscatello, A. Riccio: <i>Observational and numerical analysis of a heavy precipitation event over southern Italy</i>
10:15	A. D. Schenkman, M. Xue: <i>An analysis of numerically simulated mesovortices and tornado-like vortices in a mesoscale convective system</i>
10:30	Posters / Coffee
11:00	T. E. Thompson, L. J. Wicker, D. E. Forsyth, M. I. Biggerstaff: <i>EnKF Analysis of the 29 May 2004 Oklahoma City Supercell using Rapid-Scan Phased Array Radar Data</i>
11:15	K. van Weverberg, N. P. M. van Lipzig, L. Delobbe, D. Lauwaet: <i>Sensitivity of quantitative precipitation forecast to soil moisture initialization, microphysics parameterization and horizontal resolution</i>
Session 5A/C: Forecasting and warning of severe storms	
Chair: J. Kain	
11:30	W. Szilagyi: <i>A waterspout forecasting technique</i>
12:00	A. Friedrich: <i>Tornadoes in Germany – Current developments at DWD</i>
12:15	D. Murer: <i>Nowcasting and Warning in convective weather situations at MeteoSwiss</i>
12:30	A. G. Keul, A. M. Holzer, P. Sterzinger, S. Rudolf, A. Reinmueller: <i>Are Austrian radio weather warnings user-friendly?</i>
Session 2: Dynamics, microphysics and electrification of severe storms	
Chair: R. Petersen	
12:45	D. R. MacGorman, K. M. Kuhlmann, P. R. Krehbiel, M. I. Biggerstaff, D. P. Betten: <i>Three-Dimensional Lightning Mapping Observations of Supercell Storms</i>
13:00	Lunch & Future ECSS planning meeting
14:30	O. van der Velde, J. Montanya, D. Romero, S. Soula, N. Pineda, J. Bech, V. Reglero: <i>Observations of Western Mediterranean TLE: LS8000 Intracloud Lightning and High-Speed Video</i>
15:00	U. Blahak, J. Plieninger, S. Lang, K. D. Beheng: <i>An orographic weakening effect for coldpool driven convective systems</i>
15:15	J. Dahl, U. Schumann, H. Höller, C. Keil: <i>A lightning parameterization for the COSMO-DE model</i>

15:30	G. J. Tripoli, M. B�ker: <i>The formation and maintenance of strong tornadic vortices through vorticity confinement</i>
15:45	C. L. Ziegler, L. Wicker, M. Biggerstaff, D. Betten, E. Mansell, K. Kuhlman, D. MacGorman: <i>Evolution of downdraft thermodynamics and low-level rotation in the tornadic 29 May 2004 Geary, OK, USA supercell storm</i>
16:00	Coffee
Session 1: Theory of convection, atmospheric instability, synoptic or orographic forcing	
Chair: K. D. Beheng	
16:30	A. L. Houston: <i>Criticality: A proposed theory for understanding and forecasting deep convective initiation</i>
17:00	A. Bell: <i>Conceptual models of severe storms initiation in South Eastern Romania</i>
17:15	B. Geerts, T. Andretta, Y. Wang: <i>A long-lived tornadic mesocyclone in a low-CAPE environment in an orographically-generated potential vorticity banner</i>
17:30	L. Molini, A. Parodi, N. Rebora, G. C. Craig, F. Siccardi: <i>The role of convective equilibrium in the characterization and the predictability of severe storms in Italy</i>
17:45	M. D. Parker: <i>Impact of lapse rates upon low-level rotation in idealized storms</i>
18:00	End of presentations
20:00	Conference Dinner (<i>Redoutensaal</i>)
22:30	End of day 3

Thursday, 15 October 2009	
08:30	Registration
Session 3: Severe weather climatology and hazard assessment	
Chair: M. Sioutas	
09:00	C. A. Doswell III: <i>Methods for reanalysis of historic tornadoes</i>
09:30	S. Cheval, S. Burcea, A. Dumitrescu, B. Antonescu, T. Breza: <i>Regional variation of extreme rainfall events in Romania</i>
09:45	J. Dessens, C. Berthet, J. L. Sánchez: <i>Yearly fluctuations of hail precipitation in France</i>
10:00	K. Kosiba, J. Trapp: <i>A comparison of real data simulations to axisymmetric tornadoes</i>
10:15	M. Kunz, M. Puskeiler: <i>Assessment of the hail hazard in Southwest Germany</i>
10:30	Posters / Coffee
Session 7: Remote sensing of severe storms	
Chair: M. Setvák	
11:00	H. Höller, V. Meyer, K. Schmidt, H.-D. Betz: <i>Polarimetric radar and LINET lightning characteristics of severe storms</i>
11:30	M. Pajek, Z. Bielec-Bakowska, P. Struzik: <i>Storms occurrence in Poland – analysis of synoptic stations observations vs. PERUN lightning detection system measurements</i>
11:45	H. B. Bluestein, M. French, I. Popstefanija, R. Bluth, J. Knorr: <i>Observations of tornadogenesis using a mobile, phased-array, Doppler radar</i>
12:00	J. Wurman, K. Kosiba, Y. Richardson, P. Markowski: <i>Preliminary results from dual-Doppler and rapid-scan DOW observations in VORTEX2</i>
12:15	M. Salek, T. Púčík: <i>Flash floods in the Czech Republic in June 2009</i>
12:30	H. Barbosa, A. G. Ertürk: <i>Using Multispectral SEVIRI Radiances at the Top of Deep Convective Storm as a Powerful Tool for Short Predictions in Brazil</i>
12:45	H. P. Roesli: <i>Severe convection over SW Africa and SE Arabia based on SEVIRI imagery</i>
13:00	Lunch
POSTER block II: Sessions 1, 2, 3, 5, 7, 9, 11/12	
Chair: N. Dotzek	
14:00	Posters on display <i>Authors of named sessions in attendance</i>
Session 11/12: Socio-economic aspects	
Chair: B. Feuerstein	
15:00	J. Rauhala, J.-P. Tuovinen, D. M. Schultz: <i>Hail and wind damage in Finland: Societal impacts and preparedness</i>
15:30	S. Schmidt, C. Kemfert, P. Höppe: <i>Tropical cyclone losses in the USA and the impact of climate change — A trend analysis based on data from a new approach to adjusting storm losses</i>
15:45	L. H. Nunes: <i>Media communication of extreme events: a case study for Brazil</i>
16:00	Posters / Coffee

16:30	J. Wurman, K. Kosiba: <i>Comparisons of low level radar winds, in situ 1-m winds, and damage in tornadoes</i>
16:45	V. Beck, N. Dotzek: <i>Reconstruction of near-surface tornado wind fields from forest damage</i>
17:00	J. L. Sánchez, B. Gil, L. López, E. García-Ortega: <i>Radar parameters determining the kinetic energy of hail precipitation in the Iberian Peninsula</i>
17:15	A. Guerrero, M. van de Poll, K. Nzerem: <i>The RMS U.S. and Canada Severe Convective Storm Model</i>
17:30	A. Kulmhofer: <i>Research aspects of Crisis Prevention and Risk & Crisis Management in Enterprises - Empirical data from Austrian Enterprises</i>
17:45	N. Wever, G. Groen, R. Jilderda, R. Leander, D. Wolters: <i>Climate and climate scenarios for Mainport Schiphol</i>
18:00	End of presentations
18:15	Side meeting (<i>Bürgerzimmer</i>): ESSL General Assembly
Session 13: Videos and pictures of severe convective weather	
Chair: O. van der Velde / A. M. Holzer	
19:30	Á. Molnár: <i>Tornado chasing in Hungary - the tornadic supercell on the 20th of May 2008</i>
19:50	M. Korosec: <i>Evening session: Pictures and videos of severe convective weather</i>
20:10	P. Simeonov, T. Velikov: <i>Pictures from some hazardous events in Bulgaria: heavy hail, extreme rainfall, and flash floods, and tornado Kostandenets video-clip</i>
20:30	N. N. et al.: <i>Title</i>
21:00	End of day 4

Friday, 16 October 2009	
08:30	Registration
Session 5A/B: Forecasting and nowcasting of severe storms	
Chair: J. L. Sánchez	
09:00	M. Xue: <i>Convective-scale Data Assimilation and Numerical Weather Prediction at the Center for Analysis and Prediction of Storms: A Status Update</i>
09:15	V. Homar, D. J. Stensrud: <i>'À la carte' ensemble perturbations with customizable scale and amplitude</i>
09:30	J. S. Kain, S. J. Weiss, M. C. Coniglio, M. Xue, F. Kong, M. Weisman, M. Pyle, R. Sobash, C. Schwartz, D. Bright, J. Levit, G. Carbin: <i>New developments in applied research for severe convection forecasting in the Hazardous Weather Testbed, Norman, OK, U.S.A.</i>
09:45	P. K. Wang: <i>A cloud model study of wind shear effect on the satellite observed storm top IR features</i>
10:00	M. Reyniers, L. Delobbe, P. Dierickx, M. Thunus, C. Tricot: <i>Recent advances in precipitation nowcasting at the RMI of Belgium: storm severity product</i>
Session 3: Severe weather climatology and hazard assessment	
Chair: P. Groenemeijer	
10:15	M. Kiguchi, Y. Yamane, N. Eguchi, T. Hayashi, T. Oki: <i>The moisture variability during pre-monsoon over Bangladesh</i>
10:30	Posters / Coffee
11:00	A.-J. Punkka, D. M. Schultz, M. Bister: <i>High-Latitude Mesoscale Convective Systems: An 8-yr climatology of Summertime MCSs in Finland</i>
11:15	J. Rauhala, D. M. Schultz: <i>Synoptic climatology of tornado environments in Finland</i>
11:30	M. Sioutas: <i>A tornado and waterspout climatology for Greece</i>
11:45	O. Suzuki, H. Yamauchi, M. Nakazato, H. Inoue, K. Kobayashi, H. Murai: <i>Statistics on tornado and other hazardous winds in Japan</i>
12:00	M. Kunz, S. Mohr: <i>Trends of hailstorm frequency and atmospheric characteristics in southwest Germany</i>
12:15	Z. Petrosyan: <i>Thunderstorm-related extreme weather in Armenia</i>
Closing Session	
Chair: N. Dotzek	
12:30	N. Dotzek: <i>ECSS 2009 wrap-up & conclusions, Heino Tooming Award 2009</i>
12:50	N. N.: <i>Introduction to the 6th ECSS in 2011: Venue, time and topics</i>
13:00	End of ECSS 2009 conference

POSTERS

01. Theory of convection, atmospheric instability, and synoptic or orographic forcing	
01.01	I. Gladich, I. Gallai, D. B. Giaiotti, F. Stel: <i>On the evening onset of deep moist convection in complex orography</i>
01.02	M. Nicolini, Y. García Skabar: <i>Diurnal cycle in convergence patterns in the boundary layer east of the Andes and convection</i>
01.03	K. Riemann-Campe, R. Blender, N. Dotzek, K. Fraedrich, F. Lunkeit: <i>Global persistency distributions of CAPE and CIN</i>
01.04	L. Schielicke, P. N�vir: <i>Towards a power law distribution of tornadoes and cyclones and the relation to the Gutenberg-Richter law of earthquakes</i>
02. Dynamics, microphysics and electrification of severe storms	
02.01	D. Betten, M. Biggerstaff, K. Kuhlmann, C. Ziegler, D. MacGorman: <i>Rear-flank downdraft evolution in the 29 May 2004 Geary, Oklahoma tornadic supercell thunderstorm</i>
02.02	E. Fiori, A. Parodi, F. Siccardi: <i>Uncertainty in prediction of deep moist convective processes: turbulent parameterizations, microphysics and grid-scale effects</i>
02.03	K. Sassa, S. Takemura: <i>Experimental simulation for examining flow conditions of tornadogenesis</i>
02.04	M. Fern�ndez-Raga, M. Gonz�lez-Colino, C. Palencia, A. I. Calvo, A. Castro, R. Fraile: <i>Moment-energy relationship: a criterion to distinguish between convective and stratiform precipitation</i>
02.05	R. Fraile, M. Fern�ndez-Raga, M. Gonz�lez-Colino, C. Palencia, A. I. Calvo, A. Castro: <i>Error in the sampling area of an optical disdrometer: consequences in computing other variables</i>
02.06	M. Gonz�lez-Colino, M. Fern�ndez-Raga, J. M. Riera, P. Garc�a-del-Pino, A. Benarroch, C. Palencia, A. I. Calvo, A. Castro, R. Fraile: <i>Vertical distribution of raindrop sizes: a case study</i>
02.07	N. Pineda, J. Bech, T. Rigo, J. Montany�, O. van der Velde: <i>Total lightning analysis of a tornadic severe weather event</i>
03. Severe weather climatology and hazard assessment	
03.01	S. Fern�ndez-Gonz�lez, S. del Rio, M. Fern�ndez-Raga, A. Castro, A. I. Calvo, R. Fraile: <i>Relationship between precipitation and weather types in Le�n, Spain (1948-2008)</i>
03.02	D. Foris, S. Spanos: <i>Hailstone to hailstorm relation in northern Greece</i>
03.03	P. V. Salio, Y. Garcia Skabar, M. Nicolini: <i>The role of the low-level jet in flash flood event over central Argentina</i>
03.04	P. Simeonov, I. Gospodinov, R. Petrov, L. Bocheva: <i>Recent severe rain/hailstorms with tornado events in Bulgaria (2001-2008)</i>
03.05	M. Aran, J. C. Pe�a: <i>Atmospheric circulation patterns associated with hail events in Lleida (Catalonia)</i>
03.06	E. Lupikasza, Z. Bielec-Bakowska: <i>Atmospheric condition and severe storms occurrence in Poland</i>

03.07	L. Bocheva, I. Gospodinov, P. Simeonov, T. Marinova: <i>On change in extreme daily precipitation characteristics in Bulgaria (1961 – 2007)</i>
03.08	E. Paixao, H. Auld, D. MacIver, M. Monirul: <i>Estimation of rainfall Intensity-Duration-Frequency curves using radar rainfall data for South-Central Ontario</i>
03.09	E. García-Ortega, L. López, J. L. Sánchez: <i>Atmospheric patterns associated with hailstorm days in the Ebro Valley (Spain)</i>
03.10	S. Gaztelumendi, K. Otxoa de Alda, J. Egaña, I. R. Gelpi, D. Pierna, S. Carreño: <i>Summer showers characterization in the Basque Country</i>
03.11	L. Kolendowicz: <i>Circulation of the atmosphere and days with thunderstorm in Poland in the period 1971-2008</i>
03.12	C. M. Matsudo, P. V. Salio: <i>Distribution of extreme events associated with deep convection</i>
03.13	C. Palencia, J. M. Franco, D. Giaiotti, F. Stel, A. Castro, R. Fraile: <i>Superimposed hailfalls over a hailpad</i>
03.14	B. Reinhardt, N. Dotzek, E. Faust.: <i>Effects of the El Niño - Southern Oscillation (ENSO) on heavy precipitation and associated losses at the North American west coast</i>
03.15	S. Spanos, D. Foris: <i>A Climatic Investigation of Intense Precipitation associated with 500 hPa cyclones which are affecting the Greek territory during warm period of the year</i>
03.16	V. Tymofiev: <i>Climatology of extreme precipitation in Ukraine, large-scale atmospheric circulation and assessment of weather-related risks</i>
03.17	Z. Cao, J. Ma: <i>Summer severe rainfall frequency trend and variability over Ontario, Canada</i>
03.18	O. Svabik: <i>Severe Storm Regions in Austria on the basis of the TORRO hailstorm intensity scale</i>
03.19	C. Brendel, B. Ahrens: <i>Convection over the Taunus Mountains and vicinity: Distribution and Tracks</i>
03.20	B. C. Chitoroiu, M. Tomescu: <i>Similarities between severe storms produced along the Romanian Black Sea coast</i>
04. Climate change impacts on sever storms, development of adaptation concepts	
04.01	D. Pocakal: <i>Hailpad data analysis for continental part of Croatia</i>
04.02	N. Dotzek, the RegioExAKT consortium: <i>RegioExAKT - Regional Risk of Convective Extreme Weather Events: User-oriented Concepts for Trend Assessment and Adaptation</i>
04.03	J. Sander, N. Dotzek: <i>Climate change impacts on severe convective storms over Europe</i>
04.04	M. Kasperski, E. Agu, N. Aylanc: <i>Wind loads and climate change – significance of gust fronts in the structural design</i>
04.05	A. Matthies, G. C. Leckebusch, T. Schartner, J. Sander, P. Névir, U. Ulbrich: <i>Extreme weather events in southern Germany – Climatological risk and development of a large-scale identification procedure</i>
04.06	P. Chatterjee, U. K. De, D. Pradhan: <i>Study of weather change due to loss of Sunderban Delta Region</i>
04.07	S. Grünwald, H. E. Brooks: <i>Influence of sounding derived parameters on the strength of tornadoes in Europe and the USA from reanalysis data</i>

05. Forecasting, nowcasting and warning of severe storms	
05.01	G. Held, A. M. Gomes, M. Teixeira, J. M. Bassan: <i>Predictability of Extreme Storm Events in the State of São Paulo, Brazil</i>
05.02	S. Sharma, D. Dutta, J. Das, R. M. Gairola: <i>Nowcasting of severe storm at a station by using the soft computing techniques to the radar imagery</i>
05.03	J. Saraiva, J. L. M. Lopes, R. H. Braga, G. G. Ribeiro: <i>Extreme Events in the Amazônia Region during the Rainy Season of 2009</i>
05.04	A. Udogwu, J. B. Omotosho, S. Gbuyiro, I. Ebenebe, G. C. Osague, E. Olaniyan: <i>Forecasting and Nowcasting of Severe Storms and their Preferred Tracks across West Africa</i>
05.05	T. Salami, O. S. Idowu, E. E. Balogun: <i>West African weather system in the development of tropical cyclones</i>
05.06	P. Bonelli, P. Marcacci, E. Bertolotti, E. Collino, G. Stella: <i>Nowcasting and assessing thunderstorm risk on Lombardy Region (Italy)</i>
05.07	K. J. Rae: <i>Triggering of deep convection by low-level boundaries</i>
05.08	J. L. Sánchez, L. López, B. Gil-Robles, J. Dessens, C. Bustos, C. Berthet: <i>Short-term forecast of hail precipitation parameters</i>
05.09	Z. Sokol, P. Pesice: <i>Precipitation forecast by the COSMO NWP model using radar and satellite data</i>
05.10	Z. Polyánszky: <i>Non Mesocyclone Tornadoes in Hungary</i>
05.11	M. Salvati, D. Berlusconi: <i>A statistical study of stability indices as convective weather predictors in Lombardia</i>
05.12	R. Groenland, R. van Westrhenen: <i>Diagnostic tool convective modes</i>
06. Numerical studies, e.g. of convective initiation, storm life cycles and phenomena	
06.01	B. C. Vermeire, L. G. Orf, E. Savory: <i>A comparison of transient impinging jet and cooling source downburst models</i>
06.02	B. R. S. B. Basnayake, S. Das, M. K. Das, M. Rahman, M. A. Sarker, M.A.R. Akand: <i>Composite characteristics of severe thunderstorms over Bangladesh simulated by WRF-ARW Model</i>
06.03	M. Curic, D. Janc, N. Kovacevic: <i>The influence of boundary layer conditions on storm life cycles</i>
06.04	P. Markowski, N. Dotzek: <i>Numerical simulations of supercells over idealized orography</i>
06.05	K. Tsuboki, A. Sakakibara: <i>Numerical simulation of tornado-scale vortices occurred in a winter cold-air outbreak over the Sea of Japan</i>
06.06	U. Wissmeier, R. Goler: <i>An investigation of a severe multicellular storm in the tropics</i>
06.07	A. Bertozzi, P. Randi: <i>Forecasting skill study of different non-hydrostatic meteorological model configurations in severe convective events simulation</i>
06.08	N. Huseynov, B. Malikov: <i>Parameterization and development of statistical model for meteorological elements of convective instability</i>
06.09	F. Espejo, E. Alvarez, F. Cortes, C. Lafragüeta: <i>Characteristics of convective processes in inland Northeast Spain</i>

06.10	P. Knippertz, J. Trentmann, A. Seifert: <i>High-Resolution Simulations of Convective Cold Pools over the Northwestern Sahara</i>
06.11	P. Randi, A. Bertozzi: <i>A right flank supercell in Romagna; Splitting storm system case study</i>
06.12	K. Wapler, A. Seifert, B. Ritter: <i>Validation of deep convection in the convective-scale NWP model COSMO-DE</i>
06.13	H. Choi, D. S. Choi: <i>Generation of Windstorm in the Eastern Mountainous Coast of Korea</i>
07. Remote sensing of severe storms, e.g. by satellite, radar and lightning detection	
07.01	C. Georgiev, P. Santurette: <i>Diagnosis of atmospheric environment favourable for deep moist convection by using satellite imagery</i>
07.02	S. Sharma, D. Dutta, J. Das, R. M. Gairola: <i>The characteristics of Mesoscale Convective Systems over Tropics as observed from TRMM Microwave Imager</i>
07.03	O. Kryvobok: <i>Usefulness of using of satellite data for nowcasting and short-range forecasting of severe weather in Ukraine</i>
07.04	A. Mauricio Agostinho: <i>Radar estimates of kinetic energy from rain events as adjusted by disdrometric measurements</i>
07.05	V. Bliznak, Z. Sokol: <i>Relationships between data measured by meteorological radars and Meteosat Second Generation for convective storms</i>
07.06	O. Brujic, A. Pjevic: <i>Detection and analysis of supercell – case study May 22nd 2007</i>
07.07	M. Clark: <i>Doppler radar observations of a tornadic squall line over southeast England</i>
07.08	F. T. Couto, P. R. P. Foster: <i>Hailstorm in extreme south of Brazil: A case study of January 2009</i>
07.09	S.-E. Enno: <i>Spatial and temporal distribution of cloud-to-ground lightning over Estonia 2005-2008</i>
07.10	A. G. Ertürk, H. Barbosa: <i>Detecting V-storms using Meteosat Second Generation SEVIRI image and its applications: A case study over western Turkey</i>
07.11	S. Gaztelumendi, J. Lopez, J. Egaña, J. A. Aranda: <i>Preliminary results from lightning detection in Basque Country</i>
07.12	E. Goudenhoofdt, M. Reyniers, L. Delobbe: <i>Statistical analysis of convective storm tracks using volume reflectivity measurements from a C-band radar</i>
07.13	O. Kryvobok: <i>Combination of different kind of satellite data for estimation of heavy precipitation over Ukraine in summer 2008</i>
07.14	P. Novak, H. Kyznarova: <i>Utilization of lightning data in the Czech Hydrometeorological Institute</i>
07.15	P. Pešice: <i>Parallax correction of Meteosat images using temperature profiles, radar echo-tops and combined method</i>
07.16	N. Pineda, M. Aran, A. Andrés, M. Busto, C. Farnell: <i>Life cycle analysis of a severe hailstorm in the Ebro Valley (Catalonia, NE Spain)</i>

07.17	M. Putsay, A. Simon, I. Szenyán, J. Kerkmann, G. Horváth: <i>Case study of the 20 May 2008 tornadic storm in Hungary – Remote sensing features and NWP simulation</i>
07.18	M. Radová, M. Setvák, H. Kyznarová: <i>MSG IR 10.8 observations of features at tops of convective storms – 2008 statistics and important cases</i>
07.19	L. Trapero, J. Bech, T. Rigo, O. Argemí, N. Pineda, O. Esteban: <i>Analysis of improved radar precipitation estimates in the Pyrenees area</i>
07.20	T. Dimitrova, R. Mitzeva, A. Todorova: <i>Lightning activity in rain and hail bearing thunderstorms over Bulgaria</i>
07.21	L. Vidal, P. Salio: <i>Characterization of extreme storms on the south-eastern South America from using TRMM observations</i>
07.22	M. A. Antonio: <i>Radar monitoring of dam-induced organized rain showers in tropical Brazil</i>
08. (Extra-)tropical cyclones: embedded thunderstorms and large-scale wind fields	
08.01	C. Gatzen, T. Púčik, D. Ryva: <i>Comparison of two cold-season mesoscale convective systems</i>
08.02	S. Gaztelumendi, J. Egaña: <i>Klaus over Basque Country: local characteristics and Euskalmet operational aspects</i>
08.03	A. Schneidereit, K. Riemann-Campe, R. Blender, K. Fraedrich, F. Lunkeit: <i>North-Atlantic extra-tropical cyclone intensities, wind fields, and CAPE</i>
08.04	J. Egaña, S. Gaztelumendi: <i>Klaus overview and comparison with other cases affecting Basque country area</i>
08.05	N. Tartaglione, R. Caballero: <i>A numerical study of the windstorm Klaus: role of the sea surface temperature and domain size</i>
09. Severe storm case studies and field campaigns, e.g. COPS, THORPEX, VORTEX2	
09.01	M. Stojanovic: <i>The Balkan cyclone</i>
09.02	F. Fusto: <i>The January 2009 precipitation extremes over Calabria region, Southern Italy</i>
09.03	A. M. Gomes, G. Held: <i>Severe Winter Storms over the Western and Central State of São Paulo, Brazil</i>
09.04	M. Löffler-Mang: <i>HARE – A new intelligent hail recorder for networks and field campaigns</i>
09.05	M. Parker, A. French, C. Letkewicz, M. Morin, K. Rojowsky, D. Stark, G. H. Bryan: <i>Mobile sounding measurements of the near storm environment during VORTEX2</i>
09.06	Y. Richardson, P. Markowski, J. Wurman, K. Kosiba: <i>Mobile mesonet observations in VORTEX2</i>
09.07	K. Kosiba, J. Wurman, Y. Richardson, P. Markowski: <i>Mesocyclone-scale mobile radar observations in VORTEX2</i>
09.08	F. M. El Ashmawy, A. L. Essawy: <i>Thunder Activity With Heavy Rain Over Egypt In Early Spring</i>
09.09	J. Egaña, S. Gaztelumendi, D. Pierna, I. R. Gelpi, K. Otxoa de Alda: <i>Convective storms over Basque Country: June 2008 cases study</i>
09.10	K. Friedrich, R. Humphrey, J. Wurman, K. Kosiba: <i>Study of microphysical and thermodynamic structures within supercell thunderstorms</i>
09.11	H. Y. Inoue, K. Kusunoki, W. Mashiko, S. Hayashi, H. Yamauchi: <i>High resolution X-band Doppler radar observation of mesocyclones along the</i>

	<i>convergence line</i>
09.12	I. Marcinoniene: <i>Very strong convection at the Baltic coast of Lithuania on 25 November 2008</i>
09.13	K. Kusunoki, H. Inoue, W. Mashiko, S. Hayashi, W. Kato, K. Araki, K. Bessho, S. Hoshino, M. Nakazato, T. Imai, Y. Hono: <i>Wind gust and storm evolutions observed during the Shonai Area Railroad Weather Project: A preliminary survey</i>
09.14	D. Placko-Vrsnac, N. Strelec-Mahovic: <i>A case study of severe convection over Central Europe with a detailed analysis of development over Croatia on 22nd and 23rd June 2007</i>
09.15	T. Púčik, M. Francová, D. Rýva, M. Kolář: <i>Derecho on the 25th June 2008</i>
09.16	A. Simon, J. Kanák, A. Sokol, M. Putsay, L. Uhrínová, K. Csirmaz: <i>Case study of severe windstorm over Slovakia and Hungary on 25 June 2008</i>
09.17	H. Tuschy, M. Hagen, G. J. Mayr: <i>Examination of two severe thunderstorm events in southern Germany</i>
09.18	B. White, A. Blyth, J. Marsham, K. Browning: <i>Comparison of detailed model results of MCS with radar observations during CSIP</i>
10. Severe weather reporting and databases, e.g. applied to forecast evaluation	
10.01	B. Antonescu, A. Bell: <i>A century of severe storms reports in Romania</i>
10.02	M. Sioutas, W. Szilagyi, A. Keul: <i>The International Centre for Waterspout Research (ICWR)</i>
10.03	B. Wrona: <i>The Meteorological and Morphological Grounds for the Severe Precipitation in the Upper and Middle Odra Basin</i>
10.04	M. Gayà: <i>Tornadoes and Severe Storms in Spain</i>
10.05	R. Araki, L. H. Nunes: <i>Ancient Natural Disasters Triggered by Severe Weather in São Paulo, Brazil</i>
10.06	R. Doe: <i>A Coastal Storms Database: Advances in Coastal Storm Data Management</i>
10.07	B. Gil-Robles, J. L. Sánchez, E. García-Ortega, J. L. Marcos, L. López: <i>Signature of hail precipitation on the ground</i>
10.08	J. Mateo, C. Antón, M. Aran, J. Bech, A. Sairouni: <i>Towards an integrated hail database: a comparative study of different sources of information in Catalonia</i>
10.09	R. Volny: <i>Severe convective weather cases on the territory of the Czech Republic – monitoring, and documentation, database – current status and near future</i>
11. Socio-economic aspects, e.g. damage analysis, wind speed vs. damage relation	
11.01	M. Mitic, Z. Vucinic, Z. Babic: <i>Cost-benefit Analysis of the Hail Suppression Project in Serbia</i>
11.02	D. H. Candido, L. H. Nunes, G. Held: <i>Impact of two severe storm systems over the São Paulo State, Brazil</i>
11.03	C. Welker, N. Dotzek, E. Faust: <i>Variability of Indo-Pacific tropical cyclone activity and related socioeconomic disasters</i>
11.04	I. Gladich, I. Gallai, D. B. Giajotti, G. M. Morgan, F. Stel: <i>Severe Local Storms Cultural Heritage</i>

11.05	M. Lacinová, J. Drahokoupil, L. Ronge: <i>Fruitful cooperation between NMS and amateur stormchasers</i>
11.06	B. Feuerstein, E. Dirksen, N. Dotzek, P. Groenemeijer, A. M. Holzer, M. Hubrig, E. Rauch: <i>An illustrated verbal description of the TORRO- and Fujita-scales adapted for Central Europe considering building structure and vegetation characteristics</i>
12. Socio-economic aspects, e.g. emergency response and risk management, security ...	
12.01	S. Nair: <i>Socio-economic Impacts of Increasing Intensity and Frequency of Tropical Storms on the Coastal Zones of India</i>
12.02	J. Dessens, C. Berthet, J. L. Sánchez: <i>Mitigation of hail damages by cloud seeding in France and Spain</i>
12.03	C. von Haustein, M. Kasperski: <i>RegioExAKT: Regional classification of the wind conditions for Germany in present and future; Cartographical view of Trends for extreme wind conditions</i>
12.04	J. Gonçalves: <i>The severe rain and damages economics in areas of state of Espirito Santo, Brazil</i>

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