ICAM 2015
Innsbruck Austria

33rd International Conference on Alpine Meteorology

31 Aug - 04 Sep 2015

Programme

Version: August 21, 2015

Sunday, 30 Aug 2015

17:00 - 19:00		Registration
19:00 - 21:00		ICAM Steering Committee Meeting

Monday, 31 Aug 2015

07:30 - 08:45		Registration
08:45 - 09:00		Welcome and Introduction
09:00 - 10:30	O1	**Oral Session: Orographic clouds and precipitation: Part 1** ***Chair:*** *Evelyne Richard (CNRS, France)*
09:00 (Invited)	O1.1	Orographic convection: progress and challenges ***Daniel J. Kirshbaum*** *(McGill University, Canada)*
09:30	O1.2	Controls on precipitation in thermally driven orographic clouds ***Alison D. Nugent*** *(NCAR, United States of America), Campbell D. Watson, Gregory Thompson, Ronald B. Smith*
09:45	O1.3	Sensitivity of orographic precipitation in Switzerland to atmospheric processes – simulations with the high-resolution numerical model COSMO ***Nicolas Piaget*** *(ETH Zurich, Switzerland), Felix Naef, Heini Wernli*
10:00	O1.4	Relation between airflow and rainfall orographic enhancement over the Pyrenees: Three heavy precipitation events ***Laura Trapero Bagué*** *(Institut d'Estudis Andorrans, Andorra), Joan Bech, Fanny Duffourg, Jeroni Lorente*
10:15	O1.5	HyMeX IOP2b: observations and numerical simulations of a supercell over the Friuli-Venezia Giulia region (northeastern Italy) ***Mario Marcello Miglietta*** *(ISAC-CNR, Italy), Agostino Manzato, Richard Rotunno*
10:30 - 11:15	P1	**Poster Session 1: Part 1**
11:15 - 12:30	O2	**Oral Session: Orographic clouds and precipitation: Part 2** ***Chair:*** *Günther Zängl (Deutscher Wetterdienst, Germany)*

11:15	O2.1	The OWLeS Orographic Field Campaign: Adventures in Intense Snowstorms on the Tug Hill Plateau ***W. James Steenburgh*** *(University of Utah, United States of America), Leah Campbell, Peter Veals, Theodore Letcher, Justin Minder*
11:30	O2.2	Variations in orographic precipitation enhancement during lake-effect storms over the Tug Hill Plateau: Observations from OWLeS IOP2 ***Leah S. Campbell*** *(University of Utah, United States of America), W. James Steenburgh, Peter G. Veals, Theodore Letcher, Justin R. Minder*
11:45	O2.3	Climatological Characteristics of Lake-Effect Storms over Eastern Lake Ontario and Orographic Enhancement over the Tug Hill Plateau ***Peter G. Veals*** *(University of Utah, United States of America), W. James Steenburgh, Leah S. Campbell*
12:00	O2.4	Mountain Waves and Orographic Precipitation in a Northern Colorado Winter Storm ***David Kingsmill*** *(University of Colorado, United States of America), Ola Persson, Sam Haimov, Matt Shupe*
12:15	O2.5	A Precipitation experiment in the Kananakis area of the Alberta Rockies ***Julie M. Thériault*** *(Université du Québec à Montréal, Canada), Ronald E. Stewart, Juris Almonte, Stephen Berg, Émilie Bresson, Mélissa Cholette, Ida Hung, Dominic Matte, Émilie Poirier, Paul Vaquer, John Pomeroy*
12:30 - 13:45		Lunch Break
13:45 - 14:00		Weather Forecast
14:00 - 15:30	O3	**Oral Session: Orographic clouds and precipitation: Part 3** ***Chair:*** *Andrew N. Ross (University of Leeds, United Kingdom)*
14:00	O3.1	Scale dependence of the statistics of heavy precipitation in the Alpine region ***Luca Panziera*** *(MeteoSwiss, Switzerland), Marco Gabella, Alexis Berne, Paolo Ambrosetti, Urs Germann*
14:15	O3.2	Aerosol-Cloud interactions in orographic wave clouds (ICE-L) ***Annette K. Miltenberger*** *(University of Leeds, United Kingdom), Paul Field, Adrian Hill, Ben Shipway*
14:30	O3.3	A high-resolution weather station network in a complex terrain catchment to improve hydrometeorological forecast and water supply for the São Paulo megacity. ***Thomas Martin*** *(University of Sao Paulo, Brazil), Jonathan Mota, Helber Freitas, Nilson Neires, Raianny Leite, Miriam Mathias, Ricardo Hallak, Humberto Rocha*
14:45	O3.4	Origin and Flow History of Air Parcels in Orographic Banner Clouds ***Volkmar Wirth*** *(University of Mainz, Germany), Sebastian Schappert*
15:00	O3.5	The Impact of Mountain asymmetry on Banner Cloud Formation at Mount Zugspitze ***Isabelle Prestel*** *(University Mainz, Germany), Volkmar Wirth, Anne Martin*

15:15	O3.6	How does fog formation vary throughout a valley network? ***Sian Lane*** *(Met Office (UK), United Kingdom), Jeremy Price, Amanda Kerr-Munslow*
15:30 - 17:00	P1	**Poster Session 1: Part 2**
17:00 - 18:30	O4	**Oral Session: Thermally-driven flows and cold pools** ***Chair:*** *Michael Sprenger (ETH Zurich, Switzerland)*
17:00	O4.1	Thermally driven up-slope flows: State of the art and open questions ***Dino Zardi*** *(University of Trento, Italy)*
17:15	O4.2	The impact of the temperature inversion breakup on the exchange of heat and mass in an idealized valley: Sensitivity to the radiative forcing ***Daniel Leukauf*** *(University of Innsbruck, Austria), Alexander Gohm, Mathias W. Rotach, Johannes S. Wagner*
17:30	O4.3	A nested large-eddy simulation study of the Ora del Garda wind in the Alps ***Lorenzo Giovannini*** *(University of Trento, Italy), Lavinia Laiti, Dino Zardi*
17:45	O4.4	Energetics of idealised valleys in pooling and draining configurations ***Gabriele Arduini*** *(University of Grenoble and University of Hertfordshire, United Kingdom), Charles Chemel, Chantal Staquet*
18:00	O4.5	Large-eddy simulations of sea breezes over a mountainous island ***Chun-Chih Wang*** *(McGill University, Canada), Daniel J. Kirshbaum*
18:15	O4.6	Identification and climatology of Alpine pumping from a regional climate simulation ***Meinolf Kossmann*** *(Deutscher Wetterdienst, Germany), M. Graf, K. Trusilova, G. Mühlbacher*
18:30 - 21:00		Icebreaker

Tuesday, 01 Sep 2015

08:30 - 10:30	O5	**Oral Session: Gravity wave and airflow dynamics: Part 1** ***Chair:*** *Dale Durran (University of Washington, United States of America)*
08:30 (Invited)	O5.1	Mysteries of the Deep: Flying through New Zealand's gravity waves ***James D. Doyle*** *(Naval Research Laboratory, United States of America), Qingfang Jiang, Alex Reinecke, Carolyn Reynolds, Stephen D. Eckermann, David C. Fritts, Ronald B. Smith, Mike Taylor, Andreas Dörnbrack*
09:00	O5.2	Severe turbulence in a deep valley associated with rotors and interacting cross-mountain and up-valley flows ***Lukas Strauss*** *(University of Vienna, Austria), Vanda Grubišić, Stefano Serafin*
09:15	O5.3	Lee rotor onset prediction using linear theory with a boundary layer ***Miguel A. C. Teixeira*** *(University of Reading, United Kingdom)*

09:30	O5.4	The impact of mountain width and stratification on wave-induced rotor formation ***Johannes Sachsperger*** *(University of Vienna, Austria), Stefano Serafin, Vanda Grubišić*
09:45	O5.5	Aspects of inversions and mountain flows ***Haraldur Ólafsson*** *(HI, Iceland), Hálfdán Ágústsson, Marius Opsanger Jonassen, Birta Líf Kristinsdóttir, Sigurður Jónsson, Andréa Massad, Eiríkur Örn Jóhannesson*
10:00	O5.6	Virtual and real topography for flows across mountain ranges ***Laurence Armi*** *(University of California San Diego, United States of America), Georg J. Mayr*
10:15	O5.7	Sub-kilometre simulation of terrain-disrupted airflow associated with aircraft diversion at the Hong Kong International Airport ***K. K. Hon*** *(Hong Kong Observatory, Hong Kong S.A.R. (China)), P. W. Chan*
10:30 - 11:15	P2	**Poster Session 2: Part 1**
11:15 - 12:30	O6	**Oral Session: Boundary layer processes: Part 1** ***Chair:*** *C. David Whiteman (University of Utah, United States of America)*
11:15	O6.1	A mesoscale model-based climatography of daytime atmospheric boundary layer heights over complex terrain. ***Stephan F. J. De Wekker*** *(University of Virginia, United States of America), Stefano Serafin, Jason C. Knievel*
11:30	O6.2	The Passy project: Objectives, underlying scientific questions and preliminary numerical modelling of the Passy Alpine valley ***Chantal Staquet*** *(Université Joseph Fourier, France), Alexandre Paci, Julie Allard, Gabriele Arduini, Hélène Barral, Manuel Barret, Sébastien Blein, Christophe Brun, Frédéric Burnet, Guylaine Canut, Didier Chapuis, Charles Chemel, Florie Chevrier, Jean-Martial Cohard, Alain Dabas, Hélène Guyard, Jean-Luc Jaffrezo, Pauline Martinet, Stéphane Mercier, Grisa Mocnik, Isabel Peinke, Julian Quimbayo, Jean-Emmanuel Sicard, Delphine Six, Florence Troude, Isabella Zin*
11:45	O6.3	High-resolution numerical modeling of meteorological conditions and associated particulate matter distribution over complex terrain, in the Italian Alps. ***Elena Tomasi*** *(University of Trento, Italy), Lorenzo Giovannini, Luca Ferrero, Dino Zardi, Mariapina Castelli, Marcello Petitta*
12:00	O6.4	Comparison of modelled and measured wind fields in an Alpine Valley ***Gabriele Rau*** *(Zentralanstalt für Meteorologie und Geodynamik, Austria), Johannes Vergeiner, Mathias W. Rotach*
12:15	O6.5	The impact of orography on gas dispersion and transportation during the 2014 Holuhraun eruption *Elín Björk Jónasdóttir,* ***Guðrún Nína Petersen*** *(Icelandic Meteorological Office, Iceland), Halldór Björnsson, Melissa Anne Pfeffer, Sara Barsotti, Þorsteinn Jóhannsson, Tobias Dürig*
12:30 - 13:45		Lunch Break
13:45 - 14:00		Weather Forecast

14:00 - 15:30	O7	**Oral Session: Boundary layer processes: Part 2** ***Chair:*** *Meinolf Kossmann (Deutscher Wetterdienst, Germany)*
14:00	O7.1	The ScaleX experiment in the TERENO-prealpine observatory ***Benjamin Wolf*** *(Karlsruhe Institute of Technology, Germany), Christian Chwala, Frederik De Roo, Benjamin Fersch, Jakob Garvelmann, Edwin Haas, Wolfgang Junkermann, Nadine Ruehr, Klaus Schäfer, Hannes Vogelmann, Matthias Zeeman, Almut Arneth, Klaus Butterbach-Bahl, Michael Dannenmann, Stefan Emeis, Ralf Kiese, Harald Kunstmann, Matthias Mauder, Peter Suppan, Ralf Sussmann, Hans-Peter Schmid*
14:15	O7.2	Flux measurements over complex, forested terrain ***Andrew N. Ross*** *(University of Leeds, United Kingdom), Rosey Grant*
14:30	O7.3	Challenges when dealing with turbulence measurements in mountainous terrain ***Ivana Stiperski*** *(University of Innsbruck, Austria), Mathias W. Rotach*
14:45	O7.4	Evaluating local similarity scaling in the stable, wintertime boundary layer influenced by complex topography ***Karmen Babić*** *(University of Zagreb, Croatia), Mathias W. Rotach, Zvjezdana Bencetić Klaić*
15:00	O7.5	On the role of advection for the net ecosystem carbon dioxide exchange of a subalpine grassland ***Georg Wohlfahrt*** *(University of Innsbruck, Austria), Marta Galvagno, Edoardo Cremonese, Umberto Morra Di Cella*
15:15	O7.6	A factor-separation study of convective boundary layer development over non-uniform land use and topography ***Stefano Serafin*** *(University of Vienna, Austria), Stephan F. J. De Wekker*
15:30 - 17:00	P2	**Poster Session 2: Part 2**
17:00 - 18:30	O8	**Oral Session: Gravity wave and airflow dynamics: Part 2** ***Chair:*** *Dino Zardi (University of Trento, Italy)*
17:00	O8.1	The second Meteor Crater Experiment (METCRAX II): Introduction and overview of recent results ***C. David Whiteman*** *(University of Utah, United States of America), Manuela Lehner, Sebastian W. Hoch, Matthew O. G. Hills, Norbert Kalthoff, Bianca Adler, Rich Rotunno, Roland Vogt, Iris Feigenwinter, Martina Grudzielanek, Jan Cermak, Thomas Haiden, Nihanth W. Cherukuru, Ronald Calhoun*
17:15	O8.2	Downslope-windstorm-type flows and seiches in the Meteor Crater - responses of the nocturnal crater atmosphere to an impinging katabatic flow ***Manuela Lehner*** *(University of Utah, United States of America), C. David Whiteman, Sebastian W. Hoch, Bianca Adler, Norbert Kalthoff, Richard Rotunno*
17:30	O8.3	Lidar observations during METCRAX-II ***Sebastian W. Hoch*** *(University of Utah, United States of America), Nihanth W. Cherukuru, Ronald Calhoun, C. David Whiteman, Manuela Lehner, Bianca Adler, Norbert Kalthoff, William O. J. Brown*

17:45	O8.4	A parameter based approach to idealised numerical simulations of Meteor Crater downslope-windstorm-type flows ***Matthew Hills*** *(University of Utah, United States of America), Dave Whiteman, Sebastian Hoch, Manuela Lehner*
18:00	O8.5	Do current theories of downslope-windstorm-type flows apply to the Meteor Crater? ***Thomas Haiden*** *(ECMWF, United Kingdom), C. David Whiteman, Manuela Lehner*
18:15	O8.6	Upstream conditions controlling downslope-windstorm-type flows in Arizona's Meteor Crater ***Bianca Adler*** *(Karlsruhe Institute of Technology (KIT), Germany), Norbert Kalthoff, C. David Whiteman, Sebastian W. Hoch, Manuela Lehner*

Wednesday, 02 Sep 2015

08:30 - 10:30	O9	**Oral Session: Gravity wave and airflow dynamics: Part 3** ***Chair:*** *Simon Vosper (Met Office, United Kingdom)*
08:30 (Invited)	O9.1	Role of Observations in Complex Terrain Research: Recent Progress and Current Challenges ***Vanda Grubišić*** *(National Center for Atmospheric Research, United States of America)*
09:00	O9.2	Gravity wave predictability in the troposphere and stratosphere during DEEPWAVE ***P. Alex Reinecke*** *(Naval Research Laboratory, United States of America), James Doyle, Qingfang Jiang*
09:15	O9.3	An investigation of a midlatitude lower stratospheric gravity wave "valve layer" ***Christopher G. Kruse*** *(Yale University, United States of America), Ronald B. Smith*
09:30	O9.4	Mountain gravity waves: some new analytical solutions ***François Lott*** *(CNRS, France)*
09:45	O9.5	NWP modelling of air flow over South Georgia island: an analysis of wake formation and gravity wave activity. ***John Hughes*** *(Leeds University, United Kingdom), Andrew Ross, Simon Vosper*
10:00	O9.6	Spatial distribution and characteristics of foehn conditions over the Larsen Ice Shelf, Antarctica, in observations and Polar WRF. ***Jenny Turton*** *(University of Leeds and British Antarctic Survey, United Kingdom), Amelie Kirchgaessner, John King, Andrew Ross, Alan Gadian, Ralph Burton*
10:15	O9.7	Lagrangian Perspective of Orographic Blocking ***Michael Sprenger*** *(ETH, Switzerland), Nicolas Piaget, Stefan Ruedisuehli, David Leutwyler, Heini Wernli*
10:30 - 11:00		Coffee Break

11:00 - 12:15	O10	**Oral Session: Numerical weather prediction: Part 1** ***Chair:*** *Marco Arpagaus (MeteoSwiss, Switzerland)*
11:00 (Invited)	O10.1	High-resolution simulations of flow over complex terrain: progress and challenges ***Fotini K. Chow*** *(University of California, Berkeley, United States of America)*
11:30	O10.2	COSMO-EULAG dynamical core for high resolution Alpine weather prediction ***Zbigniew Piotrowski*** *(Institute of Meteorology and Water Management - National Research Institute, Poland), Bogdan Rosa, Damian Wójcik, Michał Ziemiański*
11:45	O10.3	A new vertical grid nesting capability in the WRF model *M. H. Daniels,* ***Katherine A. Lundquist*** *(Lawrence Livermore National Laboratory, United States of America), D. J. Wiersema, F. K. Chow, J. D. Mirocha*
12:00	O10.4	Parametrizing mountain-wave and flow-blocking drag in global models: the "grey zone" in orographic drag ***Simon Vosper*** *(Met Office, United Kingdom), Andy Brown*
12:15 - 12:30		Group Photo
12:30 - 13:30		Lunch Break (Buffet)
13:30 - 17:30		Excursion
17:30 - 22:00		Celebration and Conference Dinner

Thursday, 03 Sep 2015

08:30 - 10:30	O11	**Oral Session: Snow processes** ***Chair:*** *Sascha Bellaire (University of Innsbruck, Austria)*
08:30 (Invited)	O11.1	Advances in understanding and modelling mountain snow processes ***John Pomeroy*** *(University of Saskatchewan, Canada), Richard Essery, Keith Musselman, Jonathan Conway, Michael Schirmer, Warren Helgason, Nicolas Leroux, Chris Debeer, Chad Ellis*
09:00	O11.2	Modeling elevation-dependent climate warming impacts to snow: effects of temperature lapse rates ***Matthew G. Cooper*** *(Oregon State University, United States of America), Anne W. Nolin, Mohammad Safeeq*
09:15	O11.3	Modelling mountain snow with large-scale and small-scale driving data ***Richard Essery*** *(University of Edinburgh, United Kingdom)*
09:30	O11.4	Using snowboards and lysimeters to constrain snow model choices in a rain-snow transitional environment ***Nicholas E. Wayand*** *(University of Washington, United States of America), Adam Massmann, Martyn Clark, Jessica Lundquist*

09:45	O11.5	Identification of snow precipitation mechanisms and accumulation patterns over complex terrain with very high resolution radar data and terrestrial laser scans ***Franziska Gerber*** *(EPFL / WSL-SLF, Switzerland), Rebecca Mott, Jacopo Grazioli, Daniel Wolfensberger, Alexis Berne, Michael Lehning*
10:00	O11.6	Propagation of uncertainty in atmospheric longwave radiation to modeled snowpack and summer evapotranspiration at mountain research sites ***Mark Raleigh*** *(National Center for Atmospheric Research, United States of America), Karl Lapo, Danny Marks, Andrew Hedrick, Gerald Flerchinger, Martyn Clark*
10:15	O11.7	Boundary layer development over a melting mountain snow cover: The Dischma Experiment ***Rebecca Mott*** *(WSL Institute for Snow and Avalanche Research SLF, Switzerland), Sebastian Schlögl, Lisa Dirks, Michael Lehning*
10:30 - 11:15	P3	**Poster Session 3: Part 1**
11:15 - 12:30	O12	**Oral Session: Numerical weather prediction: Part 2** ***Chair:*** *Fotini K. Chow (University of California, Berkeley, United States of America)*
11:15	O12.1	Progress in weather prediction in mountainous and snow-covered areas achieved with the ICON model ***Günther Zängl*** *(Deutscher Wetterdienst, Germany)*
11:30	O12.2	The future high-resolution NWP systems of MeteoSwiss: COSMO-1 and COSMO-E ***Marco Arpagaus*** *(Federal Office of Meteorology and Climatology MeteoSwiss, Switzerland), Steef Böing, Oliver Fuhrer, Daniel Leuenberger, Guy De Morsier, Jürg Schmidli, André Walser*
11:45	O12.3	Parameterization of NWP WRF in statically stable situations over complex terrain ***Goran Gašparac*** *(Gekom Ltd., Croatia), Amela Jeričević, Branko Grisogono*
12:00	O12.4	A new scheme to represent sub-grid orographic rain enhancement via the seeder-feeder effect ***Samantha A. Smith*** *(Met Office, United Kingdom), P. R. Field, S. B. Vosper, B. Shipway, A. Hill*
12:15	O12.5	Toward Improved NWP Simulations of Utah Basin Persistent Cold Air Pools ***Erik Crosman*** *(University of Utah, United States of America), John Horel, Chris Foster*
12:30 - 13:45		Lunch Break
13:45 - 14:00		Weather Forecast
14:00 - 15:30	O13	**Oral Session: Weather analysis, forecasting and verification** ***Chair:*** *Thomas Haiden (ECMWF, United Kingdom)*

14:00	O13.1	Assimilation of water vapor observations upstream of the precipitation events documented during HyMeX SOP1 ***Evelyne Richard*** *(CNRS, France), Nadia Fourrié, Soline Bielli, Cyrille Flamant, Paolo Digirolamo*
14:15	O13.2	Radar-Based Quantitative Precipitation Estimation and Forecasting in Switzerland. ***Ioannis V. Sideris*** *(MeteoSwiss, Switzerland), Urs Germann, Marco Gabella, Marco Sassi*
14:30	O13.3	Performance of a satellite driven nowcasting system and a high resolution NWP AROME-1km model over the Eastern Alpine area ***Florian Meier*** *(ZAMG, Austria), Nauman Awan, Ingo Meirold-Mautner, Alexander Kann, Christoph Wittmann, Yong Wang*
14:45	O13.4	Two novel approaches for precipitation nowcasting in complex terrain within the INCA system ***Benedikt Bica*** *(ZAMG - Central Institute for Meteorology and Geodynamics, Austria), Alexander Kann, Min Chen, Martin Suklitsch, Vera Meyer, Lukas Tüchler, Yong Wang*
15:00	O13.5	MesoVICT – Mesoscale Verification Inter-Comparison over Complex Terrain ***Manfred Dorninger*** *(University of Vienna, Austria), Marion Mittermaier, Eric Gilleland, Barb Brown, Beth Ebert, Laurie Wilson*
15:15	O13.6	Evaluation of a High-Resolution Numerical Weather Prediction Model in Truly Complex Terrain ***Brigitta Goger*** *(University of Innsbruck, Austria), Mathias W. Rotach, Alexander Gohm, Oliver Fuhrer, Ivana Stiperski*
15:30 - 17:00	P3	**Poster Session 3: Part 2**
17:00 - 18:30	O14	**Oral Session: Climate analysis and prediction: Part 1** ***Chair:*** *Ivana Stiperski (University of Innsbruck, Austria)*
17:00	O14.1	The unknown truth: impacts of uncertainties in European precipitation datasets on regional climate analysis ***Andreas F. Prein*** *(National Center for Atmospheric Research, United States of America), Andreas Gobiet*
17:15	O14.2	Long series of Swiss seasonal precipitation: Regionalisation, trends and the influence of large-scale flow ***Simon C. Scherrer*** *(MeteoSwiss, Switzerland), Michael Begert, Mischa Croci-Maspoli, Christof Appenzeller*
17:30	O14.3	Alpine trends in temperature and precipitation ***Johannes Vergeiner*** *(ZAMG, Austria), Barbara Chimani, Susanne Drechsel, Klaus Haslinger, Gernot Resch, Christoph Zingerle*
17:45	O14.4	Towards an Alpine Foehn Climatology ***David Plavcan*** *(University of Innsbruck, Austria), Georg J. Mayr*
18:00	O14.5	Future changes of atmospheric cyclone track types with relevance for extreme precipitation events in Central Europe ***Michael Hofstätter*** *(ZAMG, Austria), Annemarie Lexer, Barbara Chimani, Günther Blöschl, Markus Homann, Andreas Phillip, Christoph Beck, Jucundus Jacobeit*

18:15	O14.6	Observational Facts of Sustained Departure Plateau Vortexes ***Shuhua Yu*** *(The Chengdu Institute of Plateau Meteorology, CMA, Chengdu, China, People's Republic of), Wenliang Gao, Jun Peng, Yuhua Xiao*

Friday, 04 Sep 2015

08:30 - 10:30	O15	**Oral Session: Climate analysis and prediction: Part 2** ***Chair:*** *Daniel J. Kirshbaum (McGill University, Canada)*
08:30 (Invited)	O15.1	Towards Convection-Resolving Climate Modeling ***Christoph Schär*** *(ETH Zurich, Switzerland), Nikolina Ban, Steven Böing, Oliver Fuhrer, Xavier Lapillone, Michael Keller, David Leutwyler, Daniel Lüthi, Linda Schlemmer, Jürg Schmidli, Thomas Schulthess*
09:00	O15.2	Analysis of precipitation extremes using generalized extreme value theory in convection-resolving climate simulations ***Nikolina Ban*** *(ETH Zurich, Switzerland), Juerg Schmidli, Christoph Schär*
09:15	O15.3	Estimating Global-Warming-Induced Changes in Extreme Precipitation over Mid-latitude Mountains ***Dale Durran*** *(University of Washington, United States of America), Xiaoming Shi*
09:30	O15.4	Characterization of the Simulated Regional Snow-Albedo Feedback Using a Regional Climate Model over Complex Terrain ***Justin R. Minder*** *(University at Albany, United States of America), Theodore Letcher*
09:45	O15.5	Trends and Multi-decadal Variability in the Hydroclimate of the Tibetan Plateau as Manifested in Paleoclimate, Precipitation and Reanalysis Data 1850-2010. ***G. W. Kent Moore*** *(University of Toronto, Canada)*
10:00	O15.6	The evolution of mountain permafrost in Switzerland (the TEMPS-project) ***Christian Hauck*** *(University of Fribourg, Switzerland), Reynald Delaloye, Isabelle Gärtner-Roer, Andreas Hasler, Christin Hilbich, Martin Hoelzle, Robert Kenner, Sven Kotlarski, Christophe Lambiel, Rachel Lüthi, Antoine Marmy, Johann Müller, Jeannette Noetzli, Marcia Phillips, Jan Rajczak, Nadine Salzmann, Michael Schaepman, Christoph Schär, Benno Staub, Ingo Völksch*
10:15	O15.7	Changes in precipitation patterns associated with the retreat and thinning of Vatnajökull ice cap, Southeast-Iceland ***Hálfdán Ágústsson*** *(IMO, Iceland), Haraldur Ólafsson, Helgi Björnsson, Finnur Pálsson*
10:30 - 11:00		Coffee Break
11:00 - 12:30	O16	**Oral Session: Statistical post-processing and downscaling** ***Chair:*** *Haraldur Ólafsson (HI, Iceland)*
11:00 (Invited)	O16.1	Making use of climate model output in the mountains: Recent progress along the continuum of downscaling complexity ***Ethan D. Gutmann*** *(National Center for Atmospheric Research, United States of America), Martyn P. Clark, Roy M. Rasmussen, Jeffrey Arnold, Levi Brekke*

11:30	O16.2	Diagnosing sub-grid valley cold air pools from numerical weather prediction (NWP) forecasts ***Peter Sheridan*** *(Met Office, United Kingdom), Simon Vosper, Samantha Smith*
11:45	O16.3	A new approach to statistical post-processing of spatial forecasts ***Markus Dabernig*** *(University of Innsbruck, Austria), Jakob W. Messner, Georg J. Mayr, Achim Zeileis*
12:00	O16.4	Probabilistic Predictions in Complex Terrain with an Analog Ensemble ***Iris Odak Plenkovic*** *(Meteorological and Hydrological Service, Croatia), Luca Delle Monache, Kristian Horvath, Mario Hrastinski, Alica Bajic*
12:15	O16.5	Improving short-range probabilistic forecasts of (intra-)daily precipitation sums ***Manuel Presser*** *(University of Innsbruck, Austria), Jakob Messner, Reto Stauffer, Georg J. Mayr, Achim Zeileis*
12:30 - 12:45		Awards
12:45 - 13:00		Closing

Poster Session 1

Monday, 31 Aug 2015 10:30 - 11:15 (Part 1) and 15:30 - 17:00 (Part 2)

P1.1	Bayesian Exploration of Multivariate Orographic Precipitation Sensitivity for nearly moist neutral flows *S. Tushaus, D. J. Posselt,* ***Mario. M. Miglietta*** *(ISAC-CNR, Italy), R. Rotunno, L. Delle Monache*
P1.2	The Vertical Structure of Coastal Orographic Feeder Clouds ***David Kingsmill*** *(University of Colorado, United States of America)*
P1.3	Finescale Orographic Precipitation Variability and Gap-Filling Radar Potential in Little Cottonwood Canyon, Utah, USA ***Leah S. Campbell*** *(University of Utah, United States of America), W. James Steenburgh*
P1.4	Sea-effect precipitation processes and orographic enhancement over Hokkaido Island, Japan ***Leah S. Campbell*** *(University of Utah, United States of America), Yasushi Fujiyoshi, Yoshinori Yamada, Masayuki Kawashima, W. James Steenburgh*
P1.5	Lake-effect snow at Lake Constance, Austria: Case studies of winter precipitation over complex terrain ***Lukas Umek*** *(University of Innsbruck, Austria), Lukas Lehner, Alexander Gohm, Susanne Drechsel*
P1.6	Lake-effect precipitation at Lake Constance, Austria: Climatology and forecasting ***Lukas Lehner*** *(University of Innsbruck, Austria), Lukas Umek, Alexander Gohm, Susanne Drechsel*
P1.7	The missing link between Alpine potential-vorticity banners and banded convection: A case study of a severe Alpine snow storm ***Simon Siedersleben*** *(University of Innsbruck, Austria), Alexander Gohm*
P1.8	Sensitivity Tests and Ensemble Simulations for a Heavy Precipitation Event over Corsica ***Phillip Scheffknecht*** *(Université Toulouse, France), Evelyne Richard, Dominique Lambert*

P1.9 Simulations of a long-lived supercell over complex terrain
Phillip Scheffknecht *(Université Toulouse, France), Stefano Serafin, Vanda Grubišić*

P1.10 On the uncertainty of altitudinal precipitation gradients
Michael Kuhn *(University of Innsbruck, Austria)*

P1.11 Analysis of the Recent nivometric conditions in Emilia Romagna territory (Northern Adriatic Italy)
Massimiliano Fazzini *(University of Ferrara, Italy), Cesare Govoni, Sandro Nanni, Valentina Pavan, Francesco Russo*

P1.12 Time and space distribution of precipitation in the Marche Region (Central Italy): preliminary observations.
Matteo Gentilucci *(University of Camerino, Italy), Carlo Bisci, Massimiliano Fazzini, Carmela Vaccaro*

P1.13 THORBEX - The Thorbjörn precipitation field experiment in SW-Iceland
Guðrún Nína Petersen, Hálfdán Ágústsson, ***Haraldur Ólafsson*** *(HI, Iceland), Þórður Arason*

P1.14 An Analysis of an extreme Rainstorm Caused by the Interaction of the Tibetan Plateau vortex and the Southwest China vortex during the Intensive Observation Period
Xiaolong Cheng *(Institute of Plateau Meteorology, CMA, Chengdu, China, People's Republic of), Yueqing Li*

P1.15 Analysis on Environmental Field and Causes for the Abnormal Track of Tibetan Plateau Vortex after Its Moving out of the Plateau
Shuhua Yu, ***Nini Tu*** *(The Chengdu Institute of Plateau Meteorology, CMA, Chengdu, China, People's Republic of), Jun Peng*

P1.16 Observing layout, field experiment of Southwest China vortex and its applications in weather research and forecast
Yueqing Li *(Institute of Plateau Meteorology, CMA, Chengdu, China, People's Republic of)*

P1.17 The correlation between aerosol and large-scale precipitation in autumn in Sichuan Basin
Pengping Wu *(Institute of Plateau Meterology, CMA, Chengdu, China, People's Republic of), Changchun Zhou*

P1.18 Newly installed soil moisture monitoring network at middle and high elevation in Switzerland: setup and first results
Cécile Pellet *(University of Fribourg, Switzerland), Christian Hauck*

P1.19 Soil water content distribution and influence on the thermal regime of the permanently frozen ground at Schilthorn (Swiss Alps)
Cécile Pellet *(University of Fribourg, Switzerland), Adrian Wicki, Christin Hilbich, Christian Hauck*

P1.20 Thermally-driven circulation and convection over a mountainous tropical island
Chun-Chih Wang *(McGill University, Canada), Daniel J. Kirshbaum*

P1.21 Interaction of a sea breeze and a moist convection over the northeastern Adriatic coast: an analysis of the sensitivity experiments using the high-resolution mesoscale model
Gabrijela Poljak, ***Maja Telišman Prtenjak*** *(University of Zagreb, Croatia), Marko Kvakić, Kristina Šariri, Željko Večenaj*

P1.22 The impact of downslope winds and the urban heat island on fog formation over the Zagreb area
Maja Telišman Prtenjak *(University of Zagreb, Croatia), Martin Klaić, Joan Cuxart, Marko Kvakić, Karmen Babić, Darko Koračin, Amela Jeričević*

P1.23 Slope and valley flows at the Cerdanya valley in the Pyrenees
Daniel Martínez-Villagrasa *(University of the Balearic Islands, Spain), Laura Conangla, Davidde Tabarelli, Maria A. Jiménez, Josep R. Miró, Dino Zardi, Joan Cuxart*

P1.24 Revisiting Albert Defant's (1909) seminal paper "Mountain and valley winds in South Tyrol" - A tribute to a pioneering contribution in mountain meteorology
Dino Zardi, Massimiliano De Franceschi, ***Lavinia Laiti*** *(University of Trento, Italy), Lorenzo Giovannini*

P1.25 A climatological analysis of diurnal winds in the Adige valley in the Alps
Lorenzo Giovannini *(University of Trento, Italy), Lavinia Laiti, Stefano Serafin, Dino Zardi*

P1.26 Evaluation of the climatological wind speed simulated by the WRF model over complex terrain
Lorenzo Giovannini *(University of Trento, Italy), Gianluca Antonacci, Dino Zardi, Lavinia Laiti, Luca Panziera*

P1.27 Influence of along-valley terrain heterogeneity on exchange processes over idealized valleys
Johannes S. Wagner *(Deutsches Zentrum für Luft- und Raumfahrt (DLR), Germany), Alexander Gohm, Mathias W. Rotach*

P1.28 The impact of embedded valleys on daytime pollution transport over a mountain range
Moritz N. Lang *(University of Innsbruck, Austria), Alexander Gohm, Johannes S. Wagner*

P1.29 Model simulations of inversion buildup and cold-air outflow in a small Alpine sinkhole
Manuela Lehner *(University of Utah, United States of America), C. David Whiteman, Manfred Dorninger*

P1.30 Global climate change and extreme low temperatures in a sinkhole – a simple relationship?
Manfred Dorninger *(University of Vienna, Austria), Benedikt Bica*

P1.31 A case study of cold air pool evolution in hilly terrain using field measurements
Bradley Jemmett-Smith, ***Andrew N Ross*** *(University of Leeds, United Kingdom), Peter Sheridan, John Hughes, Simon Vosper*

P1.32 Observations of radiative cooling and heating under clear sky and fog conditions
Sebastian W. Hoch *(University of Utah, United States of America), E. R. Pardyjak*

P1.33 Forecasting ice formation on roads: Application of a nocturnal cooling model to road surface temperatures for minima prediction in the Adige Valley (Trentino, Italy)
Claudia Di Napoli *(Autonomous Province of Trento, Italy), Andrea Piazza, Roberto Apolloni, Ilaria Pretto*

P1.34 Topoclimatological investigation of surface inversions over complex terrain
Klemens Stemberger *(University of Vienna, Austria), Reinhold Steinacker*

P1.35 Nocturnal winds in joining shallow valleys of different sizes – Observational and numerical studies based on the field experiment KASCADE
Gert-Jan Duine *(University of Toulouse, France), Pierre Roubin, Thierry Hedde, Pierre Durand*

P1.36 The Passy-2015 field experiment: An overview of the campaign and preliminary results
Alexandre Paci *(Meteo-France & CNRS, France), Chantal Staquet, Julie Allard, Gabriele Arduini, Hélène Barral, Sébastien Barrau, Manuel Barret, Joel Barrié, Anne Belleudy, Sébastien Blein, Thierry Bourrianne, Gilles Bouhours, Christophe Brun, Frédéric Burnet, Guylaine Canut, Didier Chapuis, Charles Chemel, Florie Chevrier, Jean-Martial Cohard, Alain Dabas, Jean-Marie Donier, Thierry Douffet, Jean-Michel Etcheberry, Rémi Guillot, Hélène Guyard, Jean-Luc Jaffrezo, Yann Largeron, Olivier Garrouste, Dominique Legain, Pauline Martinet, Griša Mocnik, Eric Moulin, Isabel Peinke, Bruno Piguet, Julian-Andres Quimbayo-Duarte, William Maurel, Marie Mazoyer, Stéphane Mercier, Jean-Emmanuel Sicart, Delphine Six, Quentin Rodier, David Suquia, Florence Troude, Diane Tzanos, Isabella Zin*

P1.37 Observing Spatial and Temporal Variations in Air Quality in the Salt Lake Valley Using a Light Rail Vehicle Platform
Erik Crosman *(University of Utah, United States of America), Logan Mitchell, John Horel, John Lin, Alex Jacques*

P1.38 PANDONIA: ESA Ground-Based Air-Quality and Satellite Validation Network
Martin Tiefengraber *(University of Innsbruck, Austria), Alexander Cede*

P1.39 Influence of an Idealized Valley on the Carbon Budget
Matthias Reif *(University of Innsbruck, Austria), Mathias W. Rotach, Georg Wohlfahrt, Alexander Gohm*

P1.40 On the combined impact of boundary layer height, near-surface meteorological conditions and nocturnal CO concentration on CO diurnal cycle patterns at a low mountaintop site: A case study using simultaneous lidar and in-situ observations
Sandip Pal, Temple R. Lee, ***Stephan F. J. De Wekker*** *(University of Virginia, United States of America)*

P1.41 The impact of the planetary boundary layer height on the diurnal variability and representativeness of CO mixing ratios at a low mountaintop in the Appalachian Mountains.
Temple R. Lee, Sandip Pal, ***Stephan F. J. De Wekker*** *(University of Virginia, United States of America)*

P1.42 Effects of intermittent turbulent events on air pollutant dispersion
Mireia Udina *(Universitat de Barcelona, Spain), Maria Rosa Soler, Miriam Olid*

P1.43 Atmospheric dispersion modelling with AERMOD for comparative impact assessment of different pollutant emission sources in an Alpine valley
Elena Tomasi *(University of Trento, Italy), Gianluca Antonacci, Lorenzo Giovannini, Dino Zardi, Marco Ragazzi*

P1.44 Problems of atmospheric transport simulation for mountain observatories
Petra Seibert *(Universität für Bodenkultur Wien (BOKU), Austria), Anne Philipp, Radek Hofman*

P1.45 Improving the quality control of observational data in complex terrain
Birgit Eibl *(University of Vienna, Austria), Reinhold Steinacker*

P1.46 The National Centre for Atmospheric Science Atmospheric Measurement Facility for Mountain Meteorology
Victoria Smith *(National Centre for Atmospheric Science, United Kingdom), Barbara Brooks*

P1.47 Using Google Earth for visualization of meteorological data in complex terrain
Lukas Strauss *(University of Vienna, Austria), Stefano Serafin, Vanda Grubišić*

Poster Session 2

Tuesday, 01 Sep 2015 10:30 - 11:15 (Part 1) and 15:30 - 17:00 (Part 2)

P2.1 Lagrangian analysis of foehn air warming in a dry and a moist event over the Swiss Alps
Annette K. Miltenberger *(University of Leeds, United Kingdom), Silvia Reynolds, Michael Sprenger*

P2.2 Nature and climatology of Pfänderwind
Alexander Gohm *(University of Innsbruck, Austria), Maria Siller, Julius Bär*

P2.3 Climatology of north foehn in southern Switzerland
Cecilia Cetti, ***Matteo Buzzi*** *(MeteoSwiss, Switzerland), Michael Sprenger*

P2.4 Nowcasting of North Foehn wind gusts in Switzerland using AdaBoosting
Matteo Buzzi *(MeteoSwiss, Switzerland), Daniele Nerini*

P2.5 New Insights Into Dimmerfoehn in the Alps
Klaus Burri *(Alpine Research Group Foehn Rhine Valley/Lake Constance (AGF), Switzerland), Bruno Dürr, Patrick Hächler, Daniel Gerstgrasser, Alfred Neururer, Michael Sprenger, Richard Werner*

P2.6 150 years foehn station Altdorf, Switzerland – a climatology
Hans Richner *(ETH Zurich, Switzerland), Stephan Bader, Bruno Dürr, Thomas Gutermann*

P2.7 Numerical simulation and analysis of the gap flow emanating from the Oštarijska Vrata Pass at the onset of Bora
Tanja Trošić *(Meteorological and hydrological service, Croatia), Živko Trošić*

P2.8 Numerical analysis of microscale properties of a bora windstorm over the eastern Adriatic
Kristian Horvath *(Meteorological and Hydrological Service, Croatia), Branko Kosović*

P2.9 On the near-ground Bora turbulence
Petra Lepri *(Meteorological and Hydrological Service, Croatia), Željko Večenaj, Hrvoje Kozmar, Branko Grisogono*

P2.10 Bora-induced near-surface layer turbulence scales
Zeljko Vecenaj *(University of Zagreb, Croatia), Danijel Belusic, Branko Grisogono*

P2.11 Characteristics of bora wind at the Dubrovnik airport
Zeljko Vecenaj *(University of Zagreb, Croatia), Endi Keresturi, Zeljka Pogacic, Jadran Jurkovic, Igor Kos, Branko Grisogono*

P2.12 Extreme winds in Iceland: combined effects of cyclonic activity and complex topography
Guðrún Nína Petersen *(Icelandic Meteorological Office, Iceland)*

P2.13 Wind speed frequency distribution in various terrain
Guðrún Nína Petersen *(Icelandic Meteorological Office, Iceland), Haraldur Ólafsson*

P2.14 The Advection of Mesoscale Atmospheric Vortices over Reykjavík
Hálfdán Ágústsson *(IMO, Iceland), Haraldur Ólafsson*

P2.15 The impact of Vatnajökull ice cap on mesoscale atmospheric flow
Hálfdán Ágústsson *(IMO, Iceland), Haraldur Ólafsson, Helgi Björnsson, Finnur Pálsson*

P2.16 The impact of resolution on the representation of southeast Greenland barrier winds and katabatic flows
G. W. Kent Moore *(University of Toronto, Canada), I. A. Renfrew, B. E. Harden, S. Mernild*

P2.17 Progress in the observations and simulations of the fine scale structures of airflow over Bergen
Haraldur Ólafsson *(HI, Iceland), Jan Asle Olseth, Birgitte Rugaard Furevik, Olafur Rögnvaldsson, Ole Edvard Grov*

P2.18 Mapping of the impact of the strength and the height of inversions on the low-level flow field in the vicinity of an isolated mountain
Marius Opsanger Jonassen, ***Haraldur Ólafsson*** *(HI, Iceland), Hálfdán Ágústsson*

P2.19 Incorporating vertical velocity and balloon trajectory data into radiosonde gravity wave analysis: Orographic sources in New Zealand during the DEEPWAVE campaign
Tyler Mixa *(University of Colorado, United States of America), Lakshmi Kantha, David Fritts, Andreas Dörnbrack, Sonja Gisinger*

P2.20 Gravity wave characteristics derived from radiosonde observations at Lauder (45 S 169 E) during DEEPWAVE-NZ
Sonja Gisinger *(DLR, Germany), Andreas Dörnbrack, Benedikt Ehard, Bernd Kaifler, Natalie Kaifler, Markus Rapp, Markus Garhammer, Martina Bramberger, Tanja Portele, Maria Siller*

P2.21 Does strong tropospheric forcing cause large amplitude mesospheric gravity waves? A Deepwave Case Study
Martina Bramberger *(University of Innsbruck and DLR, Germany), Andreas Dörnbrack, Sonja Gisinger, Bernd Kaifler, Tanja Portele, Markus Rapp, Ivana Stiperski*

P2.22 Mountain Wave Propagation under Transient Tropospheric Forcing - A DEEPWAVE case study
Tanja Portele *(University of Innsbruck and DLR, Germany), Martina Bramberger, Andreas Dörnbrack, Sonja Gisinger, Alexander Gohm, Bernd Kaifler, Markus Rapp*

P2.23 Mountain waves over the Pyrenees: real and ideal simulations using the WRF model
Mireia Udina *(Universitat de Barcelona, Spain), Maria Rosa Soler, Ona Sol*

P2.24 Equatorial Mountain Torques, Equatorial Angular Momentum and Cold Surges in a GCM
Sylvain Mailler, ***Francois Lott*** *(CNRS, France)*

P2.25 The momentum flux profiles in hydrostatic mountain waves over elliptical mountains
Miguel A. C. Teixeira *(University of Reading, United Kingdom), Chau L. Yu*

P2.26 Drag produced by 3D trapped lee waves in two-layer atmospheres
Miguel A. C. Teixeira *(University of Reading, United Kingdom), Pedro M. A. Miranda*

P2.27 Drag produced by trapped lee waves and upward propagating mountain waves in directional shear flow
Chau L. Yu, ***Miguel A. C. Teixeira*** *(University of Reading, United Kingdom)*

P2.28 Analogies between wave trapping- and interfacial wave theory
Johannes Sachsperger *(University of Vienna, Austria), Stefano Serafin, Vanda Grubišić*

P2.29 Observations of lee wave and rotor development over double ridges in a stratified water tank
Ivana Stiperski, Hálfdán Ágústsson, Peter G. Baines, Anne Belleudy, Vanda Grubišić, Kristian Horvath, Christoph Knigge, Alexandre Paci, Johannes Sachsperger, ***Stefano Serafin*** *(University of Vienna, Austria), Lukas Strauss*

P2.30 Estimating the convective boundary layer depth during a fair weather day in the Owens Valley, CA
Nevio Babic, Erin Dougherty, Kelsey Everard, Seth Garland, ***Stephan F. J. De Wekker*** *(University of Virginia, United States of America)*

P2.31 Investigating the boundary layer structure in a valley using an instrumented multi-rotor copter
Stephan F. J. De Wekker *(University of Virginia, United States of America)*

P2.32 The nature of turbulence in the atmospheric boundary layer over an isolated mountain during the Mountain Terrain Atmospheric Modeling and Observations Program
Mark Sghiatti, Sandip Pal, George. D. Emmitt, ***Stephan F. J. De Wekker*** *(University of Virginia, United States of America)*

P2.33 On the state of the i-Box
Ivana Stiperski *(University of Innsbruck, Austria), Mathias W. Rotach, Brigitta Goger, Eleni Sfyri*

P2.34 Scale interactions of atmospheric flows over mountainous terrain
Ivana Stiperski *(University of Innsbruck, Austria), Mathias W. Rotach*

P2.35 Towards a local similarity framework for scalar turbulence in very complex terrain
Eleni Sfyri *(University of Innsbruck, Austria), M. W. Rotach, I. Stiperski, F. Obleitner*

P2.36 Spectral turbulence characteristics of the stable boundary layer over non-homogeneous terrain
Karmen Babić *(University of Zagreb, Croatia), Mathias W. Rotach, Zvjezdana Bencetić Klaić*

P2.37 Wind regime and filtering turbulent data in the CividatEX Experiment
Marco Falocchi *(Università degli Studi di Brescia, Italy), Stefano Barontini, Lorenzo Giovannini, Dino Zardi, Roberto Ranzi*

P2.38 Katabatic drainage flow characteristics on a low-angle slope around Arizona's Meteor Crater
Norbert Kalthoff, ***Bianca Adler*** *(Karlsruhe Institute of Technology (KIT), Germany), Manuela Lehner, C. David Whiteman, Sebastian W. Hoch*

P2.39 Visualization of high-resolution surface temperature data collected in the Barringer Meteor Crater during METCRAX II
Iris Feigenwinter *(University of Basel, Switzerland), Roland Vogt, Mathias Müller, Eberhard Parlow, Martina Grudzielanek, Mateja Maric, C. David Whiteman, Manuela Lehner, Sebastian W. Hoch*

P2.40 Infrared imaging for air flow analyses in the Barringer Meteor Crater, Arizona, as part of METCRAX II
A. Martina Grudzielanek *(Ruhr-Universität Bochum, Germany), Roland Vogt, Jan Cermak, Iris Feigenwinter, Mateja Maric, C. David Whiteman, Manuela Lehner, Sebastian W. Hoch, Mathias G. Krausz, Christian Bernhofer, Andrea Pitacco*

P2.41 Evaluation of infrared imaging for measuring near-ground flow dynamics at the Barringer Meteor Crater as part of METCRAX II
Mateja Maric *(Ruhr-Universität Bochum, Germany), A. Martina Grudzielanek, Roland Vogt, Jan Cermak, Iris Feigenwinter, C. David Whiteman, Manuela Lehner, Sebastian W. Hoch*

P2.42 Parameterization of subgrid wind speed sheltering/exposure in complex topography
Nora Helbig *(WSL Institute for Snow and Avalanche Research SLF, Switzerland), Henning Löwe, Adam Winstral, Tobias Jonas*

P2.43 Parameterization of orographic effects on surface radiation in AROME
Clemens Wastl *(ZAMG, Austria), Alexandre Mary, Yann Seity, Laura Rontu, Christoph Wittmann*

P2.44 Olympic HARMONIE 2014
Laura Rontu *(Finnish Meteorological Institute, Finland), Sami Niemelä, Alexander Mary, Yann Seity, Clemens Wastl*

P2.45 High-resolution forecasts of the thermal comfort in the urban area of Trento
Lorenzo Giovannini *(University of Trento, Italy), Dino Zardi*

P2.46 Prognostic deep convection interaction with mountains in 2-8 km resolution
Martina Tudor *(Meteorological and Hydrological Service, Croatia), Stjepan Ivatek-Šahdan, Antonio Stanešić*

P2.47 The overview of the operational forecast using ALADIN model with NH dynamics
Martina Tudor *(Meteorological and Hydrological Service, Croatia), Stjepan Ivatek-Šahdan, Antonio Stanešić*

P2.48 Verification of extreme weather warnings in Austria
Christoph Zingerle *(ZAMG, Austria), Simon Hölzl*

Poster Session 3

Thursday, 03 Sep 2015 10:30 - 11:15 (Part 1) and 15:30 - 17:00 (Part 2)

P3.1 Wind Forecast Verification during Various Bora Events at Dubrovnik Airport
Jadran Jurković *(Croatia control ltd, Croatia), Igor Kos*

P3.2 Scale dependent evaluation of mesoscale low level winds obtained with ALADIN MNWP model
Mario Hrastinski *(Croatian Meteorological and Hydrological Service, Croatia), Kristian Horvath, Iris Odak, Stjepan Ivatek-Šahdan, Alica Bajić*

P3.3 The Turb-i-Sim project: Evaluation of COSMO-simulated diurnal valley winds in the Swiss Alps
Jürg Schmidli *(ETH Zurich, Switzerland), Steven Böing, Oliver Fuhrer*

P3.4 The impact of assimilating data from a remotely piloted aircraft on simulations of weak-wind orographic flow
Hálfdán Ágústsson *(IMO, Iceland), Haraldur Ólafsson, Marius O. Jonassen, Ólafur Rögnvaldsson*

P3.5 Spatial and temporal variability in snow surface temperatures induced by boundary layer processes
Lisa Dirks *(WSL Schnee- und Lawinenforschungsinstitut SLF, Switzerland), Sebastian Schlögl, Rebecca Mott*

P3.6 Validation of bulk-transfer parameterizations of sensible heat flux over snow in complex terrain
Mathias Dusch, Marc Olefs, Ivana Stiperski, ***Friedrich Obleitner*** *(University of Innsbruck, Austria)*

P3.7 Contribution of the turbulent heat fluxes to the summer melt of Saint-Sorlin glacier in the French Alps
Maxime Litt, ***Jean Emmanuel Sicart*** *(IRD, France), Delphine Six, Warren D. Helgason*

P3.8 Radiative properties of clouds over a tropical Bolivian glacier: seasonal variations and relationship with regional atmospheric circulation
Jean Emmanuel Sicart *(IRD, France), Jhan Carlo Espinoza, Louis Quéno, Melissa Medina*

P3.9 The energy and mass balance of tropical Lewis Glacier, Mount Kenya, and its sensitivity to climate
Rainer Prinz *(University of Innsbruck, Austria), Lindsey Nicholson, Wolfgang Gurgiser, Thomas Mölg, Georg Kaser*

P3.10 Simulation of snow dynamics at different scales in a high-elevation catchment
Michael Engel *(Free University of Bozen-Bolzano, Italy), Giacomo Bertoldi, Claudia Notarnicola, Stefano Endrizzi, Georg Niedrist, Francesco Comiti*

P3.11 Potential of the use of high-resolution meteorological forecasts for snowpack modelling in the Pyrenees
Louis Quéno *(Centre d'Etudes de la Neige, CNRM-GAME, France), Vincent Vionnet, Ingrid Dombrowski-Etchevers, Matthieu Lafaysse, Fatima Karbou, Samuel Morin*

P3.12 Trend analysis of snow water equivalent in the Alps
Anna-Maria Tilg *(WSL - Institut für Schnee- und Lawinenforschung SLF, Switzerland), Christoph Marty, Tobias Jonas, Michael Kuhn*

P3.13 Snow melt frequency in a mountainous temperate maritime environment
Michael Spencer *(University of Edinburgh, United Kingdom), Richard Essery*

P3.14 Snow depth extremes in Austria: Spatial modeling with extremal coefficients
Harald Schellander *(ZAMG, Austria), Naomi Auer, Tobias Hell, Stefan Rainer, Claudia Schmuck, Christoph Zingerle*

P3.15 Spatial validation of an operational snow cover model over the eastern Alps using remote sensing data
Marc Olefs *(ZAMG, Austria), Gabriele Bippus, Elisabeth Ripper*

P3.16 Proposal for avalanche risk management on the access road to the ski area of Campitello Matese (mountain massif of Matese - Molise region - Central Italy)
Antonio Cardillo *(Agenzia Regionale Di Protezione Civile, Italy), Massimiliano Fazzini, Sandra Scarlatelli*

P3.17 Study on snow, snow avalanches and danger levels in Bucegi and Făgăraş Mountains-Southern Carpathians (Romanian Carpathians). Preliminary results
Mircea Voiculescu *(West University of Timisoara, Romania), Narcisa Milian, Dana Micu*

P3.18 Studies of snow climatology at the local scale: examples of the Fiemme Valley (Trentine Dolomites) and in Monte Cimone massif (Northern Apennines)
Massimiliano Fazzini *(University of Ferrara, Italy), Francesco Fanari, Vincenzo Romeo, Sergio Zeni*

P3.19 The incorrect information of extreme weather events: the case of the "record snowfall" in the mountains of Abruzzo and Molise of March 2015
Antonio Cardillo, Claudio Cassardo, ***Massimiliano Fazzini*** *(University of Ferrara, Italy), Sandra Scarlatelli*

P3.20 Permafrost modelling to estimate the future evolution of mountain permafrost in the Swiss Alps
Christian Hauck *(University of Fribourg, Switzerland), Antoine Marmy, Jonas Wicky, Nadine Salzmann, Martin Hoelzle*

P3.21 Monitoring tree growth in alpine regions in Tyrol
David Leidinger *(BOKU Vienna, Austria), Herbert Formayer, Sonja Vospernik, José Groff, Kurt Nicolussi*

P3.22 Near-surface wind climatology over the eastern Adriatic coast in an ensemble of RCM simulations
Andreina Belušić *(University of Zagreb, Croatia), Ivan Güttler, Maja Telišman Prtenjak*

P3.23 Climatic Maps of the Tatra Mountains
Zbigniew Ustrnul *(Jagiellonian University, Poland)*

P3.24 Influence of surface-based temperature inversions on extreme low minimum temperature over the Western Carpathians
Angelika Palarz *(Uniwersytet Jagiellonski, Poland)*

P3.25 Is it possible to characterize the climate of an Alpine region by means of synoptic circulation types?
Luca Panziera *(MeteoSwiss, Switzerland), Lorenzo Giovannini, Lavinia Laiti, Dino Zardi*

P3.26 A high-resolution solar radiation atlas for the Trentino region in the Alps
Lavinia Laiti *(University of Trento, Italy), Lorenzo Giovannini, Luca Panziera, Dino Zardi*

P3.27 Fog and low stratus over the Swiss Plateau - a climatological study
Simon C. Scherrer *(MeteoSwiss, Switzerland), Christof Appenzeller*

P3.28 Moderate extremes of hourly precipitation: Trends and relation to temperature in observed Swiss data
Simon C. Scherrer *(MeteoSwiss, Switzerland), Mischa Croci-Maspoli*

P3.29 Long-term air temperature and precipitation trends in Swiss Alps and Polish Carpathians
Agnieszka Wypych *(Jagiellonian University, Poland), Zbigniew Ustrnul, Dirk Schmatz, Niklaus E. Zimmermann*

P3.30 Cross-scale conditioning of rare extreme precipitation events in the south-eastern Alpine forelands
Katharina Schroeer *(University of Graz, Austria), Gottfried Kirchengast*

P3.31 Projected changes in precipitation extremes in mountain regions of Europe
Jan Kysely *(Institute of Atmospheric Physics AS CR, Czech Republic), Ladislav Gaal, Romana Beranova*

P3.32 Daily precipitation in a changing climate: lessons learnt from Swiss national climate change scenario initiatives
Andreas Fischer *(MeteoSwiss, Switzerland), Mark Liniger, Elias Zubler, Simon Scherrer, Denise Keller, Jan Rajczak, Christoph Schär*

P3.33 3PClim – a comprehensive study of past, present and perspective climate in the region of Tyrol, South Tyrol, Trentino and Belluno
Christoph Zingerle *(ZAMG, Austria), Silke Adler, Manfred Bauer, Reinhard Böhm, Barbara Chimani, Giovanni Cenzon, Andrea Crepaz, Francesco Domenichini, Susanne Drechsel, Georg Erlacher, Andrea Fischer, Manfred Ganekind, Günther Geier, Klaus Haslinger, Johann Hiebl, Anita Paul, Gianni Marigo, Vera Meyer, Johanna Nemec, Andrea Rossa, Gernot Resch, James Rudolph, Harald Schellander, Bernd Seiser, Philipp Tartarotti, Mauro Tollardo, Werner Verant, Johannes Vergeiner*

P3.34 A Convection Climatology in the Alpine Region
Vera Meyer, James Rudolph, Giovanni Cenzon, Francesco Domenichini, Luciano Lago, Mauro Tollardo, ***Christoph Zingerle*** *(ZAMG, Austria)*

P3.35 Radar-based severe storm climatology for Austrian complex orography related to vertical wind shear and atmospheric instability.
Rudolf Kaltenboeck *(Austro Control, Austria), Anderas Lanzinger, Martin Steinheimer*

P3.36 Climatological Characteristics and Inland Penetration of Atmospheric Rivers over the Western United States
W. James Steenburgh *(University of Utah, United States of America), Jon Rutz*

P3.37 Large scale heavy precipitation events in terms of climate change in Central Europe
Annemarie Lexer *(ZAMG - Zentralanstalt für Meteorologie und Geodynamik, Austria), Michael Hofstätter, Barbara Chimani, Günther Blöschl, Markus Homann, Andreas Phillip, Christoph Beck, Jucundus Jacobeit*

P3.38 Multidecadal precipitation patterns in a densely glaciated region of western Himalaya: A pointer to orographic control and large scale meteorological phenomena
Arindan Mandal *(Jawaharlal Nehru University, New Delhi, India, India), Al. Ramanathan, Thupstan Angchuk, Jose George Pottakkal, Mohd. Soheb*

P3.39 Investigating potential precipitation changes and related impacts on peasant agriculture and rural life in mountain villages, Cordillera Blanca, Peru
Wolfgang Gurgiser *(University of Innsbruck, Austria), Irmgard Juen, Georg Kaser, Katrin Singer, Martina Neuburger, Marlis Hofer, Simone Schauwecker*

P3.40 A review on regional convection-permitting climate modeling: demonstrations, prospects, and challenges
Andreas F. Prein *(National Center for Atmospheric Research, United States of America), Wolfgang Langhans, Giorgia Fosser, Ferrone Andrew, Nikolina Ban, Klaus Goergen, Michael Keller, Merja Tölle, Oliver Gutjahr, Frauke Feser, Erwan Brisson, Stefan Kollet, Schmidli Jürg, Nicole Van Lipzip, L. Ruby Leung*

P3.41 An evaluation of regional climate model simulated fractional snow cover using high-resolution satellite data (with implications for the simulated snow-albedo feedback)
Justin R. Minder *(University at Albany, United States of America), Theodore Letcher*

P3.42 Orographic errors in dynamic downscalings of atmospheric flows
Andréa Massad, ***Haraldur Ólafsson*** *(HI, Iceland), Guðrún Nína Petersen, Hálfdán Ágústsson, Ólafur Rögnvaldsson*

P3.43 The influence of spectral nudging in simulating Vb-events with COSMO-CLM
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P3.44 Mesoscale atmospheric models forcing strategies for glacio-hydrological studies in complex terrain
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P3.45 Atmospheric Downscaling for Glaciated mountain environments: DoG starting up
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P3.46 Synthetic future daily weather time-series over Switzerland in consistency with RCM projections
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P3.47 High-Resolution Spatio-Temporal Precipitation Climatologies in Complex Terrain
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P3.48 A statistical post-processing for ECMWF-derived 6-hours maximum rain in NE Italy
Agostino Manzato *(ARPA FVG, Italy)*