

## Daily programme for room HS 7

## Room HS 7 | Mon, 05 Sep 2022

### ES2.3 | Dealing with Uncertainties

Conveners: Nadine Fleischhut, Vanessa Fundel, Jelmer Jeuring, Bruno Joly, Mark A. Liniger, Ken Mylne, Anders Doksæter Sivle

- 14:00–14:05 **Intro by the conveners**
- 14:05–14:25 EMS2022-158  
**Behavioural decision-making Experiments in weather-driven Energy Systems**  
Corinna Möhrle, Nadine Fleischhut, Antonio Escallon, and Gregor Giebel
- 14:25–14:35 **Discussion**
- 14:35–14:55 EMS2022-679  
**Communicating uncertainties for flood warning in small catchments using ensemble hydrological forecasting**  
Jens Grundmann, Achim Six, and Andy Philipp
- 14:55–15:05 **Discussion**
- 15:05–15:11 **impulse 1: Bringing ensembles to the heart of Met Office operations, Ken Mylne and Nigel Roberts**
- 15:11–15:17 **impulse 2: How to communicate uncertainty in weather warnings to the public? Put it into perspective! Katja Schulze, Nathalie Popovic, and Nadine Fleischhut**
- 15:17–15:23 **impulse 3: Factors behind local communities resilience to extreme weather events, Adam Choryński et al**
- 15:23–15:29 **impulse 4: Concept of Probabilistic Impact Based Forecasts for the Canadian Armed Forces, David Dégardin et al.**

Coffee break

### OSA1.1 | Forecasting, nowcasting and warning systems

Conveners: Timothy Hewson, Yong Wang | Co-conveners: Bernhard Reichert, Fulvio Stel

Chairperson: Bernhard Reichert

- 16:00–16:15 EMS2022-10  
**Decide now or wait for the next forecast?**  
Gabriele Messori, Steve Jewson, and Sebastian Scher
- 16:15–16:30 EMS2022-108  
**An alert system for faults critical conditions on underground distribution lines for Milan urban area**  
Riccardo Bonanno, Matteo Lacavalla, and Simone Sperati
- 16:30–16:45 EMS2022-254  
**IMPROVER overview and updates**  
Stephen Moseley, Ken Mylne, Bruce Wright, Simon Jackson, Fiona Rust, Gavin Evans, Ben Ayliffe, Kat Hurst, Marcus Spelman, Ben Fitzpatrick, and Chris Sampson
- 16:45–17:00 EMS2022-293  
**The Climate Watch System in WMO RA VI**  
Peter Bissolli, Stefan Rösner, Maarit Roebeling, and Maya Körber
- 17:00–17:15 EMS2022-637  
**Kassandra: A Prototype of a Customizable, Probabilistic Warning and Information System**  
Heiko Niebuhr, Renate Hagedorn, Kathrin Feige, and Matthias Jerg

17:15–17:30

EMS2022-220

**A tool to identify large-scale dynamical precursors to European extreme precipitation**

Joshua Dorrington, Christian Grams, Federico Grazzini, Laura Ferranti, Linus Magnusson, and Frederic Vitart

## Room HS 7 | Tue, 06 Sep 2022

### OSA1.1 | Forecasting, nowcasting and warning systems

Conveners: Timothy Hewson, Yong Wang | Co-conveners: Bernhard Reichert, Fulvio Stel  
Chairperson: Fernando Prates

- 09:00–09:15 EMS2022-15 | Young Scientist Conference Award  
**Kalman Filter Post-Processing of the Wind Speed and Gusts NWP and Analog-Based Forecasts: Performing Sensitivity Tests**  
Ivan Vujec and Iris Odak Plenković
- 09:15–09:30 EMS2022-126  
**Postprocessing of precipitation forecasts over India with Quantile Mapping and Ensemble Model Output Statistics**  
Martin Widmann, Michael Angus, Andrew Orr, and Gregor Leckebusch
- 09:30–09:45 EMS2022-251  
**Added value of assimilating surface pressure observations from personal weather stations in AROME-France**  
Alan Demortier, Olivier Caumont, Vivien Pourret, and Marc Mandement
- 09:45–10:00 EMS2022-505  
**End to End Global Horizontal Irradiance Estimation Through Pre-trained Deep Learning Models Using All-Sky-Images**  
Samer Charaoui, Sebastian Houben, and Stefanie Meilinger
- 10:00–10:15 EMS2022-377  
**Lessons learnt from implementing a postprocessing suite for probabilistic seamless weather forecasts**  
Christoph Spirig, Jonas Bhend, Stephan Hemri, Jan Rajczak, Daniele Nerini, Lionel Moret, and Mark A. Liniger
- 10:15–10:30 EMS2022-514  
**Past, present and the possible future of cold wave alarm in Croatia**  
Vjerran Magjarević and Lidija Srnc

Coffee break

### UP1.3 | Understanding and modelling of atmospheric hazards and severe weather phenomena

Conveners: Sabrina Wahl, Fulvio Stel, Victoria Sinclair | Co-conveners: Julian Steinheuer, Irene Suomi, Dario Giaiotti, Mario Marcello Miglietta, Sante Laviola  
Chairpersons: Victoria Sinclair, Fulvio Stel

#### Severe storms and the role of the sea

- 11:00–11:15 EMS2022-127  
**Case study of Medcane Ianos: Investigation into its triggering mechanism**  
Adhithyan Neduncheran, Antonio Ricchi, and Rossella Ferretti
- 11:15–11:30 EMS2022-312  
**On the role of Ocean Mixed Layer and Sea Surface Temperature Anomaly in the genesis, intensification and evolution of the Mediterranean Tropical-Like cyclones "IANOS".**  
Antonio Ricchi, Giovanni Liguori, Leone Cavicchia, Mario Marcello Miglietta, Davide Bonaldo, Sandro Carniel, and Rossella Ferretti
- 11:30–11:45 EMS2022-485  
**Statistical analysis and classification of cyclogenesis events in the Mediterranean**  
Cosimo Enrico Carniel, Rossella Ferretti, Antonio Ricchi, Gabriele Curci, Piero Serafini, Evan David Wellmeyer, and Dino Zardi
- 11:45–12:00 EMS2022-393  
**Thunderstorm formation in the Mediterranean: a cloud modelling sensitivity analysis to SST anomalies**  
Dario Hourngir and Massimiliano Burlando

- 12:00–12:15 EMS2022-163  
**A Modeling Study on the Extreme Rainfall Event along the Northern Coast of Taiwan on 2 June 2017**  
 Chung-Chieh Wang, Ting-Yu Yeh, and Ming-Siang Li
- Hail and lightning**
- 12:15–12:30 EMS2022-61  
**Daily-resolved lightning climatology of the eastern Alpine region at the kilometer scale**  
 Thorsten Simon and Georg J. Mayr
- 12:30–12:45 EMS2022-528  
**Hail hazard estimation over Italy with a combination of high-resolution reanalysis, overshooting top detections and lightning data**  
 Antonio Giordani, Michael Kunz, Kristopher M. Bedka, Heinz Jürgen Punge, Tiziana Paccagnella, and Silvana Di Sabatino
- 12:45–13:00 EMS2022-571  
**The Multi-sensor Approach for Satellite Hail Advection (MASHA): a new technique for nowcasting applications**  
 Sante Laviola, Federico Vermi, Massimo Guarascio, Giulio Monte, Gianluigi Folino, and Vincenzo Levizzani

Lunch break

Chairpersons: Sabrina Wahl, Julian Steinheuer

**Wind gusts and heat waves**

- 14:00–14:15 EMS2022-640  
**Understanding processes leading to surface gusts by modeling windstorms at very high resolution**  
 Florian Pantillon, Wahiba Lfarh, and Jean-Pierre Chaboureau
- 14:15–14:30 EMS2022-184  
**Deriving wind gusts from Doppler lidar measurements**  
 Carola Detring, Eileen Päsche, Markus Kayser, Ronny Leinweber, and Frank Beyrich
- 14:30–14:45 EMS2022-264  
**Measurement of a Vortex with Double-Helical Structure in a Laboratory Tornado Simulator by Sonic Anemometer-Thermometer**  
 Toshihisa Itano and Kento Okuyama
- 14:45–15:00 EMS2022-438  
**Identifying high-wind features within extratropical cyclones using a probabilistic random forest**  
 Lea Eisenstein, Benedikt Schulz, Ghulam A. Qadir, Peter Knippertz, and Joaquim G. Pinto
- 15:00–15:15 EMS2022-271  
**Machine learning for postprocessing ensemble forecasts of wind gusts with a focus on European winter storms**  
 Benedikt Schulz and Sebastian Lerch
- 15:15–15:30 EMS2022-425  
**Explaining Heatwaves with Machine Learning**  
 Sebastian Buschow, Jan Keller, and Sabrina Wahl

Coffee break

## UP2.1 | Cities and urban areas in the earth-atmosphere system

Conveners: Pavol Nejedlik, Arianna Valmassoi | Co-conveners: Silvana Di Sabatino, Jan Keller, Marina Neophytou

Chairpersons: Pavol Nejedlik, Silvana Di Sabatino, Jan Keller

**Observational and review studies**

- 16:00-16:15 EMS2022-83  
**A global map of Local Climate Zones to support earth system modelling and urban scale environmental science**  
Matthias Demuzere, Jonas Kittner, Alberto Martilli, Gerald Mills, Christian Moede, Iain D Stewart, Jasper van Vliet, and Benjamin Bechtel
- 16:15-16:30 EMS2022-567  
**Model development for the estimation of seasonal urban air temperature patterns using MODIS satellite data, a case study in Szeged**  
Yuchen Guo, János Unger, and Tamás Gál
- 16:30-16:45 EMS2022-134  
**Interactions Between the Nocturnal Low-Level Jets and the Urban Boundary Layer: A Case Study over London**  
Aristofanis Tsiringakis, Natalie Theeuwes, Janet F. Barlow, and Gert-Jan Steeneveld
- 16:45-17:00 EMS2022-121  
**Urban induced modification of precipitation - Findings from a systematic literature review with focus on studies from the last decade**  
Markus Quante, Franziska S. Hanf, Friederike Bär, Marita Boettcher, Finn Burgemeister, David Grawe, Peter Hoffmann, and Heinke Schlünzen
- 17:00-17:15 EMS2022-248  
**The bicycle as a weather vehicle: transects of the urban CO<sub>2</sub> and weather measurements on a bicycle-based atmospheric sensor**  
Jordi Mazon

## Room HS 7 | Wed, 07 Sep 2022

### UP2.1 | Cities and urban areas in the earth-atmosphere system

Conveners: Pavol Nejedlik, Arianna Valmassoi | Co-conveners: Silvana Di Sabatino, Jan Keller, Marina Neophytou  
Chairpersons: Arianna Valmassoi, Jan Keller, Marina Neophytou

#### Modeling studies

- 09:00-09:15 EMS2022-700  
**Urban Environments and Regional Climate Change - CORDEX Flagship Pilot Study URB-RCC**  
Tomas Halenka and Gaby Langendijk
- 09:15-09:30 EMS2022-501  
**A new urban parameterisation for the ICON atmospheric model**  
Jan-Peter Schulz, Paola Mercogliano, Marianna Adinolfi, Carmela Apreda, Francesca Bassani, Edoardo Bucchignani, Angelo Campanale, Davide Cinquegrana, Carmine De Lucia, Rodica Dumitrache, Giusy Fedele, Valeria Garbero, Witold Interewicz, Amalia Iriza-Burca, Adam Jaczewski, Pavel Khain, Yoav Levi, Bogdan Maco, Alan Mandal, and Massimo Milelli and the COSMO PP CITTA' team
- 09:30-09:45 EMS2022-537  
**Parameterizing the impact of heterogeneous urban canopies on local climate using nudging**  
Ge Cheng, David Grawe, and K. Heinke Schlünzen
- 09:45-10:00 EMS2022-550  
**The effect of Chinese Gigacity on weather fronts**  
Tom Kokkonen, Victoria Sinclair, Lian Xue, Aijun Ding, and Markku Kulmala
- 10:00-10:15 EMS2022-147  
**Modelling the Urbanization Effect on Urban Energy Fluxes over a Tropical Humid City, Lagos, Nigeria using SUEWS**  
Benjamin Obe, Tobi Eniolu Morakinyo, and Gerald Mills
- 10:15-10:30 EMS2022-517  
**High resolution simulations using ICON-LEM to study convective storms in an urban environment around Paris**  
Lena Bruder, Theresa Kizler, Vera Schemann, and Ulrich Löhnert

Coffee break

Chairpersons: Pavol Nejedlik, Arianna Valmassoi, Marina Neophytou

- 11:00-11:15 EMS2022-270  
**North Atlantic Oscillation as a modifier of urban climate**  
Ivana Herceg-Bulic, Irena Nimac, and Maja Zuvella-Aloise
- #### Impacts and mitigation
- 11:15-11:30 EMS2022-319  
**A simulation study of the co-benefit of in-canyon trees for heat mitigation and air quality**  
Tobi Eniolu Morakinyo
- 11:30-11:45 EMS2022-299 | Tromp Foundation Travel Award to Young Scientists  
**Comparison of land surface temperature of local climate zones in Croatia and estimation of the vulnerable population heat risk**  
Matej Žgela, Ivana Herceg Bulić, Jakov Lozuk, and Patrik Jureša
- 11:45-12:00 EMS2022-336  
**Urban climate: Verification of urban heat island mitigation strategies in the Swiss city Basel**  
Sebastian Schlögl, Tjark Smalla, and Karl Gutbrod

- 12:00–12:15 EMS2022-591  
**The potential insitu and downwind thermal conditions of a new coastal city built on reclaimed land in Lagos, Nigeria**  
 Tobi Eniolu Morakinyo, Helge Simon, Tim Sinsel, and Michael Bruse
- 12:15–12:30 EMS2022-515  
**Surface urban heat island characteristics in Budapest (Hungary) during the summer period**  
 Zsuzsanna Dezső, Rita Pongrácz, and Judit Bartholy
- 12:30–12:45 EMS2022-148  
**Constructing Wind Corridor System as a Mitigation Strategy for the Urban Heat Island Effect in Taichung City**  
 Pei-Chi Tsai, Hsing-Yu Ou, Chou-Tsang Chang, and Tzu-Ping Lin

Lunch break

## UP2.6 | Exploring the interfaces between meteorology and hydrology

Conveners: Timothy Hewson, Fatima Pillosu | Co-conveners: Stefan Kollet  
 Chairperson: Stefan Kollet

### Forecasting extreme rainfall and its hydrological impacts

- 14:00–14:15 EMS2022-205  
**Precipitation over coastal regions of southern France and its impacts on the regional hydrological cycle**  
 Fatima Jomaa and Olga Zolina
- 14:15–14:30 EMS2022-433  
**A new hydro-meteorological precipitation and flood forecasting system for small catchments**  
 Tanja Winterrath, Christian Chwala, Jens Grundmann, Andy Philipp, and Achim Six
- 14:30–14:45 EMS2022-202  
**Effects of large-scale atmospheric circulation on precipitation and river stream flows in Europe during cold seasons**  
 Tuomas Naakka, Tiina Nygård, Elena Shevnina, Timo Vihma, and Alexey Karpechko
- 14:45–15:00 EMS2022-510  
**Projected changes in subdaily extreme precipitation over an alpine transect, at convection-permitting scale**  
 Eleonora Dallan, Bardia Roghani, Giorgia Fossier, Christoph Schaer, Marco Marani, Marco Borga, and Francesco Marra

### Land surface

- 15:00–15:15 EMS2022-418  
**Optimization of Soil Texture to Improve the Soil Moisture in the Land Surface Model**  
 Sujeong Lim, Seon Ki Park, and Claudio Cassardo
- 15:15–15:30 EMS2022-310  
**Investigating plant's stomatal and non-stomatal responses to water stress via STEMMUS-SCOPE model**  
 Zengjing Song, Yijian Zeng, Mingguo Ma, Bob Su, and Monica Gracia

Coffee break

Chairperson: Fatima Pillosu

### Integrated environmental forecasting systems for decision support

- 16:00–16:30 EMS2022-692  
**EC-Land Hydro: the benefits of integrating hydrology in earth system modelling**  
 Christel Prudhomme, Gabriele Arduini, Gianpalo Balsamo, Andy Brown, Souhail Boussetta, Hannah Cloke, Patricia de Rosnay, Shaun Harrigan, Cinzia Mazzetti, Florian Pappenberger, Irina Sandu, and Ervin Zsoter



- 16:30-16:45 EMS2022-664  
**Advances enabled by a Regional Environmental Prediction system developed in the UK**  
Segolene Berthou, Alex Arnold, Juan Manuel Castillo, Huw Lewis, Sana Mahmood, and Claudio Sanchez
- 16:45-17:00 EMS2022-222  
**Creating a coupled multi-model hydrometeorological forecasting and decision support system**  
Fredrik Wetterhall, Umberto Modigliani, Francesca Moschini, Bojan Kasic, and Stefano Ferri
- 17:00-17:15 **Poster Pitches**

## Room HS 7 | Thu, 08 Sep 2022

### UP2.7 | Multi-scale transport and exchange processes in the atmosphere over mountains

Convener: Dino Zardi | Co-conveners: Mathias Rotach, Chantal Staquet, Helen Ward

Chairpersons: Chantal Staquet, Mathias Rotach, Dino Zardi

- 09:00–09:15 EMS2022-621  
**Turbulent slope winds in complex terrain: from heat and moisture transport to the sampling of single plumes**  
Jan Weinkaemmerer, Matthias Göbel, Ivan Bastak Duran, Stefano Serafin, and Jürg Schmidli
- 09:15–09:30 EMS2022-478  
**Idealized simulations of orographically-induced thermal circulations triggering deep moist convection**  
Matthias Göbel, Stefano Serafin, and Mathias W. Rotach
- 09:30–09:45 EMS2022-409  
**Analysis of the Impacts of Small-Scale Orography on the Atmospheric Boundary Layer: Developing ICON-LES for the Perdigão Field Experiment**  
Julian Quimbayo-Duarte, Juerg Schmidli, Martin Köhler, and Linda Schlemmer
- 09:45–10:00 EMS2022-675  
**Untangling mountain boundary layer processes in the eastern Pyrenees: the case of the Cerdanya Basin and Andorra central valley**  
Mireia Udina, Laura Trapero, Joan Bech, Sergi González, Alexandre Paci, Stéphanie Beaufile, and Mikel Sarasua
- 10:00–10:15 EMS2022-20 | Young Scientist Conference Award  
**Along-valley winds in the Himalayas as simulated by the WRF-model**  
Johannes Mikkola, Victoria Sinclair, Marja Bister, and Federico Bianchi
- 10:15–10:30 EMS2022-358  
**Impact of climate change on wintertime persistent inversions in the Grenoble valley during the 21st century**  
Sara Bacer, Julien Beaumet, Enzo Le Bouëdec, Martin Ménégoz, Hubert Gallée, and Chantal Staquet

Coffee break

### ES1.1 | Delivering high value meteorological services to benefit our communities

Conveners: Andrew Eccleston, Willie McCairns, Gerald Fleming

Chairpersons: Willie McCairns, Andrew Eccleston

- 11:00–11:30 EMS2022-721  
**Progress with the High Value Datasets project and its potential to enhance the economic impact of the weather value chain**  
Jiri Pilar
- 11:30–12:00 EMS2022-551  
**EU Weather markets: a EU-28 perspective from 2010 to 2020 and beyond**  
Andrew Eccleston, Karl Gutbrod, Christian Gruninger-Hermann, and Dennis Schulze
- 12:00–12:15 EMS2022-242  
**Forecasting renewable energy generation: an example of how the private sector adds value**  
Isla Finney
- 12:15–12:30 EMS2022-508  
**Open data foster innovation and facilitate public-private engagement to create socio-economic value**  
Christoph Ramshorn, Mathias D. Müller, and Karl G. Gutbrod

- 12:30–12:45 EMS2022-318  
**Interpreting Meteorological and Oceanographic Data to Provide Optimal and Safe Ship Routing**  
Dana Castellano, Matthew Dib, Jeremy DeMoss, Matt Nuss, Darrell Converse, and Adam Bakke
- 12:45–13:00 EMS2022-706  
**The Needs of Re-users of Authoritative Hydromet Warnings - Lessons Learned from Meteoalarm**  
Rainer Kaltenberger

Lunch break

## OSA2.2 | Agricultural and Forest Meteorology

Convener: Branislava Lalic | Co-conveners: Josef Eitzinger, Sándor Szalai

Chairperson: Branislava Lalic

**Introduction to: EMS Tromp Award for an outstanding achievement in biometeorology 2022**

- 14:00–14:30 EMS2022-549 | EMS Tromp Award for biometeorology  
**Air temperature and humidity records-based indices as signals of seasonal changes**  
Branislava Lalić and Ana Firanj Sremac
- 14:30–14:45 EMS2022-12 | Tromp Foundation Travel Award to Young Scientists  
**Weatherproofing for a smarter, resilient and more sustainable agri-sector**  
Joanna Raymond, Stephen Dorling, Ian Mackay, Andrew Lovett, Steve Penfield, and Haidee Philpott
- 14:45–15:00 EMS2022-493 | Tromp Foundation Travel Award to Young Scientists  
**Investigating the drivers for crop yield changes during heatwaves and droughts**  
Arianna Valmassoi, Leonie T. Esters, Petra Friederichs, and Jan D. Keller
- 15:00–15:15 EMS2022-326 | Tromp Foundation Travel Award to Young Scientists  
**Future change in viticulture phenological stages and early frost risk in Istria region, Croatia**  
Branimir Omazić, Lucija Blašković, Maja Telišman Prtenjak, Marijan Bubola, Marko Karoglan, and Mislav Anić
- 15:15–15:30 EMS2022-475  
**IVINE: a crop model for simulating pheno-physiological processes on vineyards, also from a climatic point of view**  
Claudio Cassardo, Valentina Andreoli, Federico Spanna, and Martina Traversa

Coffee break

Chairperson: Branislava Lalic

- 16:00–16:15 EMS2022-273  
**The new Irish Soil Moisture Observation Network – ISMON: an Umbrella for Integrating Several Recent Soil Moisture Measurements Initiatives**  
Klara Finklele, Tamara Hochstrasser, Paul N.C. Murphy, Eve Daly, Caren Jarman, Karl Richards, Owen Fenton, Thomas Cummins, Matthew Saunders, Paul M. Johnston, Michael Bruen, Kenneth A. Byrne, Declan T. Delaney, Rowan Fealy, Stuart Green, Suzanne Higgins, Natalya Hunter Williams, Gary Lanigan, Tim McCarthy, Ted McCormack, Per-Erik Mellander, Oliver Nicholson, Ciaran Nugent, Fiachra O'Loughlin, Brian Tobin, Pat Tuohy, and Rebecca Whetton
- 16:15–16:30 EMS2022-660  
**Probabilistic short-term to seasonal soil moisture forecasts over Germany and surrounds using the hydrologic model ParFlow/CLM**  
Alexandre Belleflamme, Niklas Wagner, Klaus Goergen, and Stefan Kollet
- 16:30–16:45 EMS2022-540  
**Assessing the collection of soil moisture estimates in the scope of AgriSens Demmin 4.0: Comparison of in-situ measurements and AMBAV model results**  
Kristin Haßelbusch, Falk Böttcher, Antje Lucas-Moffat, Eva Falge, and Mathias Herbst

- 16:45-17:00 EMS2022-488  
**Multi-index's assessment of the two 2017 major wildfires in Portugal**  
Cristina Andrade and Lourdes Bugalho
- 17:00-17:15 EMS2022-448  
**FAIRness of micrometeorological data: New community challenge?**  
Branislava Lalić

## Room HS 7 | Fri, 09 Sep 2022

### OSA1.4 | Probabilistic and ensemble forecasting from short to seasonal time scales

Convener: Andrea Montani | Co-conveners: Jan Barkmeijer, Fernando Prates

Chairperson: Andrea Montani

- 09:00–09:15 EMS2022-644  
**On the crossing-point forecast**  
Zied Ben Bouallegue
- 09:15–09:30 EMS2022-489  
**Comparative studies of model perturbations for ICON-D2-EPS.**  
Chiara Marsigli and Christoph Gebhardt
- 09:30–09:45 EMS2022-356  
**Forecasting extreme precipitation in the central Mediterranean: Different products for different timescales**  
Nikolaos Mastrantonas, Luca Furnari, Linus Magnusson, Alfonso Senatore, Giuseppe Mendicino, Florian Pappenberger, and Jörg Matschullat
- 09:45–10:00 EMS2022-330  
**Multi-resolution postprocessing for precipitation**  
Jonas Bhend, Christoph Spirig, Lionel Moret, and Mark A. Liniger
- 10:00–10:15 EMS2022-457  
**New probabilistic point forecast products ("ecPoint") for sub-seasonal forecasts and the ERA5 reanalysis - the HIGHLANDER project**  
Estibaliz Gascón, Augustin Vintzileos, and Tim Hewson
- 10:15–10:30 EMS2022-231  
**Bias adjustment and skill assessment of sub-seasonal and seasonal snow depth forecasts for Finland**  
Otto Hyvärinen and Andrea Vajda
- Poster introduction

Coffee break

### OSA2.5 | Atmospheric effects on humans

Conveners: Andreas Matzarakis, Tanja Cegnar | Co-conveners: Fiorella Acquaotta, Sorin Cheval

- 11:00–11:15 EMS2022-37  
**Heat Health Warning System in Germany - New Developments and Lessons Learned**  
Andreas Matzarakis
- 11:15–11:30 EMS2022-9  
**Relationships of compound temperature-ozone pollution-events with myocardial infarction (MI) frequencies in Augsburg, Southern Germany**  
Sally Jahn and Elke Hertig
- 11:30–11:45 EMS2022-29  
**Cardiovascular and respiratory hospital admissions during different outdoor thermal conditions in urban areas – A case study of Novi Sad (Serbia)**  
Stevan Savić, Zorana Lužanin, Daniela Arsenović, Dragan Milošević, and Jelena Dunjić
- 11:45–12:00 EMS2022-191  
**Gender inequalities in heat-related mortality in the Czech Republic, 1995-2019**  
Chloé Vésier and Aleš Urban

- 12:00–12:15 EMS2022-495 | Tromp Foundation Travel Award to Young Scientists  
**The association between precipitation and the spread of shiga toxin-producing Escherichia coli infection in Lombardy, North of Italy**  
**Andrea Novaro**, Alice Baronetti, Gianluigi Ardissino, and Fiorella Acquotta
- 12:15–12:30 EMS2022-606  
**Assessing the weather conditions for urban cyclists by spatially dense measurements**  
**Felix Ament**, Amelie Schmitt, Finn Burgemeister, Henning Dorff, Tobias Finn, Akio Hansen, Bastian Kirsch, Ingo Lange, and Jule Radtke
- 12:30–12:45 EMS2022-63  
**Cloudy With a Chance of Pain: A Citizen Science Project to Understand How Weather Affects Pain**  
**David Schultz**
- 12:45–13:00 EMS2022-442 | Tromp Foundation Travel Award to Young Scientists  
**Specific and localized heat warning system built upon normalized analysis of the UHI for the city of Karlsruhe – Results of GreenLung project**  
**Marcel Gangwisch** and Andreas Matzarakis
- Lunch break
- 14:00–14:15 EMS2022-185  
**A holistic study of the urban climate and thermal bioclimate before, during and after the extreme heat wave of July-August, 2021, in the Athens urban area in Greece**  
**Christos Giannaros**, Ilias Agathangelidis, Georgios Papavasileiou, Elissavet Galanaki, Vassiliki Kotroni, Konstantinos Lagouvardos, Theodore M. Giannaros, Constantinos Cartalis, and Andreas Matzarakis
- 14:15–14:30 EMS2022-8  
**Thermal comfort and heat stress assessment for the torch relay around Taiwan and the delayed 2021 National Intercollegiate Athletic Games**  
**Si-Yu Yu**, Andreas Matzarakis, and Tzu-Ping Lin
- 14:30–14:45 EMS2022-62  
**The effects of orientation and dimensions of outdoor shading devices on thermal comfort**  
**Hsing-Yu Ou** and Tzu-Ping Lin
- 14:45–15:00 EMS2022-101  
**Outdoor thermal comfort assessment and environmental design scenario analysis for elderly building**  
**Ching-Yin Cheng**, Chieh-Yu Chen, Kuo-An Hung, and Tzu-Ping Lin
- 15:00–15:15 EMS2022-71  
**Effect of blue and green features on thermal exposure and thermal sensation in Czech cities**  
**Michal Lehnert**, Jan Geletič, Martin Jurek, and Marek Brabec