Daily programme for room HS 2

Room HS 2 | Mon, 05 Sep 2022

PSE.cc.2 | EMS2022 Opening & Welcome

Conveners: Bert Holtslag, Clemens Simmer

09:30–10:00 EMS2022 Opening & Welcome

PSE.cc.1 | Strategic Lectures: Connecting communities to deliver seamless products and services

Convener: Sylvain M. Joffre | Co-conveners: France-Audrey Magro, Matthieu Masbou, Karolin Eichler Chairpersons: Roland Wengenmayr, France-Audrey Magro

	Introduction
10:00-10:10	EMS2022-724 Added value for science and society through connecting communities at DWD Sarah Jones
10:10-10:20	EMS2022-702 Transdisciplinary, interdisciplinary, and interinstitutional work as the building blocks for effective service delivery Celeste Saulo
10:20-10:30	EMS2022-715 How EUMETSAT connects communities to deliver products and services seamlessly Phil Evans and Paul Counet
10:30-10:40	EMS2022-687 ECMWF: a collective endeavour to serve our communities Florence Rabier
10:40-10:50	EMS2022-207 How public private partnerships can enable better end user forecasts Isla Finney
10:50–11:00	Executive Secretary UNFCCC
Chairpersons: Roland Wengenmayr, France-Audrey Magro	
11:30-12:00	Panel discussion: Challenges and strategic visions for "connecting communities"
12:00-12:30	Discussion with audience
	non Data , data , angliantian davalan nangti ing part

ES1.6 | Open Data - data, application development, impact

Convener: Hella Riede | Co-conveners: Roope Tervo, Björn Reetz, Håvard Futsæter Chairpersons: Hella Riede, Roope Tervo

Oral session part 1

 14:00-14:15
 EMS2022-347

 Open Data from a mixed on-premise and cloud environment at the Finnish Meteorological Institute

 Mikko Visa

 14:15-14:30
 EMS2022-380

 ZAMG Data Hub - Open access to high value data sets

 Erika Dautz, Irene Teubner, Martin Auer, Alexander Beck, Fabian Pechstein, Julia Schöberl, Bernhard Stuxer, and Daniel Lang

14:30–14:45	EMS2022-141 Tiny Weather Forecast Germany - an open source weather app based on open data from the Deutscher Wetterdienst (DWD) Pawel Dube
14:45–15:00	EMS2022-468 DWD Geoportal – A central hub for Open Data, API and communication Björn Reetz , Hella Riede, Dirk Fuchs, Matthias Jerg, and Renate Hagedorn
15:00-15:15	EMS2022-421 Introducing BitTorrent : a scary but efficient way to disseminate archive and real-time data Nicolas Baldeck
15:15-15:30	EMS2022-263 A modernised Data Store infrastructure for improving the access to Copernicus Climate and Atmosphere data and services. Angel Lopez, Carlo Buontempo, Martin Suttie, Baudouin Raoult, Edward Comyn-Platt , and James Varndell
	Oral session part 2
	Coffee break
Chairpersons: H	åvard Futsæter, Björn Reetz, Hella Riede
16:00–16:10	Intorduction to the EMS Technology Achievement Award (TAA) by Robert Mureau, Chair of the TAA Committee
16:10-16:30	EMS2022-725 EMS Technology Achievement Award The Weather Observations Website Ken Mylne, Hannah Male, and Simon Gilbert
16:30-16:45	EMS2022-189 Open-Data and the Citizens: gathering weather and climate data in a digital common, crowdsourcing from the community, and producing value-added tools for the ecosystem Frederic Ameye and the Infoclimat team
16:45-17:00	EMS2022-424 GeoE3 - combining meteorological data with geospatial and statistical data Mikko Visa
17:00-17:15	EMS2022-17 Providing Al- and ML-ready data Roope Tervo and Mike Grant
17:15-17:30	Discussion and wrap-up

PSE.awards.1 | Award Presentations

Convener: Bert Holtslag

18:00–19:00 Award Presentations

Room HS 2 | Tue, 06 Sep 2022

OSA1.9 | Machine Learning and Computer Vision in Weather and Climate

Conveners: Peter Düben, Gordon Pipa, Bernhard Reichert, Dennis Schulze, Gert-Jan Steeneveld, Roope Tervo Chairperson: Bernhard Reichert

Applications and Methods of Machine Learning

09:00–09:15	EMS2022-211 Machine learning operations for weather applications Daniele Nerini , Gabriela Aznar, and Jonas Bhend
09:15–09:30	EMS2022-195 Generative machine learning methods for multivariate ensemble post-processing Sebastian Lerch and Jieyu Chen
	Precipitation Applications
09:30-09:45	EMS2022-427 Postprocessing of gridded precipitation forecasts using conditional generative adversarial networks and quantile regression Stephan Hemri, Jonas Bhend, Christoph Spirig, Daniele Nerini, Lionel Moret, Reinhard Furrer, and Mark A. Liniger
09:45–10:00	EMS2022-467 ML Driven Imputation of Precipitation Data Collected at High Sampling Rates Peter Lünenschloß, David Schäfer, Florian Gransee, Antje Claußnitzer, Thomas Schartner, and Jan Bumberger
10:00–10:15	EMS2022-541 Evaluating the performance of Long Short-Term Memory (LSTM) Networks for rainfall-runoff modelling in large catchments Edgar Espitia, Fatemeh Heidari, Qing Lin, Marc Vischer, and Elena Xoplaki
10:15–10:30	EMS2022-245 An Al-based approach for bias correction of temperature and precipitation forecasts to develop an early warning system Fatemeh Heidari , Qing Lin, Edgar Fabián Espitia Sarmiento, Muralidhar Adakudlu, Marc Vischer, and Elena Xoplaki
	Coffee break
Chairperson: Ro	ope Tervo
	Nowcasting Applicatons
11:00-11:15	EMS2022-391 Precipitation Nowcasting by Deep Physics-Constrained Neural Networks Matej Choma , Jakub Bartel, and Petr Šimánek
11:15-11:30	EMS2022-343 Towards a data-driven nowcasting of severe weather based on geostationary satellite data Çağlar Küçük , Apostolos Giannakos, Stefan Schneider, and Alexander Jann
	Applications for temperature, wind, renewable energies
11:30-11:45	EMS2022-552 Statistical downscaling of the 2m temperature with a generative adversarial network (GAN) Michael Langguth , Bing Gong, Yan Ji, Amirpasha Mozaffari, and Martin G. Schultz
11:45-12:00	EMS2022-324 Graph neural networks for solar energy nowcasting and intra-day prediction in Central Europe Irene Schicker and Petrina Papazek

12:00-12:15	EMS2022-327
	An adapted deep convolutional RNN model for spatio-temporal prediction of wind speed extremes in the short-to-medium
	range for wind energy applications
	Daan Scheepens, Irene Schicker, Petrina Papazek, Katerina Hlavackova-Schindler, and Claudia Plant
	Clouds
12:15-12:30	EMS2022-39
	Data Assimilation of visible and infrared cloud observations from pictures
	Maria Reinhardt, Frederik Kurzrock, Walter Acevedo, and Roland Potthast
12:30-12:45	EMS2022-157
	New cloud detection method for a stand-alone ground based microwave radiometer
	Moritz Löffler, Christine Knist, Ulrich Görsdorf, Jasmin Vural, and Ulrich Löhnert
12:45-13:00	EMS2022-171
	Cloud Mask Nowcasting over Germany Using Deep Learning
	Mads Emil Marker Jungersen, Thomas Lykke Rasmussen , Andreas Holm Nielsen, and Henrik Karstoft
	Lunch break
Chairperson: D	vennis Schulze
	Machine Learning in Numerical Weather Prediction
14:00-14:15	EMS2022-574
	Assimilation of atmospheric wind vectors retrieved via Optical flow algorithm and a thermal all-sky imager
	Walter Acevedo Valencia, Frederik Kurzrock, Maria Reinhardt, and Roland Potthast
14:15-14:30	EMS2022-277
	Neural network-based methods for generating synthetic satellite images in the solar spectral range
	Leonhard Scheck, Florian Baur, Christina Stumpf, and Christina Köpken-Watts
14:30-14:45	EMS2022-419
	Building a physics-constrained, fast and stable machine learning-based radiation emulator
	Guillaume Bertoli, Sebastian Schemm, Firat Ozdemir, Eniko Szekely, and Fernando Perez Cruz
14:45-15:00	EMS2022-531
	A framework for comparative cluster analysis of ensemble weather prediction data
	Kameswarrao Modali, Dominik Sander, Sebastian Brune, Philip Rupp, Hella Garny, Johanna Baehr, and Marc Rautenhaus
	Seasonal and climate applications, urban heat
15:00-15:15	EMS2022-167
	Comparison of AI Downscaling Methods on C3S Seasonal Forecasts for Early Warning System Development
	Qing Lin, Fatemeh Heidari, Edgar Fabián Espitia Sarmiento, Marc Vischer, and Elena Xoplaki
15:15-15:30	EMS2022-54
	Estimating the possibility of thermal stress with computer vision and neural networks based on Local Climate Zone and
	terrain. Tsz Kin Lau. Yu Cheng Chen, and Tzu Ping Lin
	Coffee break
Chairperson: G	ert-Jan Steeneveld

 16:00–16:15
 EMS2022-233

 Predicting Central European summer heatwaves with Machine Learning

 Elizabeth Weirich Benet, Maria Pyrina, Bernat Jiménez Esteve, Ernest Fraenkel, Judah Cohen, and Daniela Domeisen

16:15-16:30	EMS2022-74
	Analysis of the association between environmental features and temperature using Decision Tree and Artificial Neural Network
	Shiang Yu Wang, Kuo An Hung, and Tzu Ping Lin
	Other applications of Machine Learning
16:30-16:45	EMS2022-420
	Daily Precipitation Downscaling Using Deep Learning Techniques: The Impact of Missing Value Imputation Methods
	Hae Soo Jung, Sungmin Oh, and Seon Ki Park
16:45–17:00	EMS2022-548
	Met4Airports - Prediction of weather-induced operating restrictions at German international airports by means of artificial intelligence
	Christoph Knigge, Ole Kouker, Daniel Koser, Björn-Rüdiger Beckmann, Dirk Zinkhan, Hermin Beumer-Aftahi, Benedikt Müller, Felix
	Garcia Funk, Alexandra Melzer, Iris Breitruck, Martin Gehmayr, Matthias Beckmann, Stefan Seitz, Niklas Jost, Helen Estrella, and Johannes Knöferle
17:00-17:15	EMS2022-570
	Machine learning in a probabilistic framework can improve the prediction of lightning ignited fires Francesca Di Giuseppe

PSE.keynotes.1 | Keynote Presentation Engagement with Society

Convener: Tanja Cegnar | Co-convener: Gerald Fleming

17:30-18:00 EMS2022-723

Science Communication – experiences with societal and community outreach Insa Thiele-Eich

Room HS 2 | Wed, 07 Sep 2022

OSA3.4 | Climate Service 1: Deriving actionable information from climate data

Convener: Andreas Fischer | Co-conveners: Martin Widmann, Barbara Früh, Ivonne Anders, Rob van Dorland, Fai Fung Chairpersons: Martin Widmann, Andreas Fischer

Climate projections, downscaling, ensemble techniques

09:00-09:15	EMS2022-114 TRANSLATE: from climate data to climate services for Ireland Enda O'Brien, Paul Nolan, and James Fitton
09:15-09:30	EMS2022-378 Decisions made when updating national climate projections for Norway Anita Verpe Dyrrdal, Irene Brox Nilsen, Stephanie Mayer, Hans Olav Hygen, Andreas Dobler, and Inger Hanssen-Bauer
09:30-09:45	EMS2022-14 Reconstructing the diurnal cycle of temperature from daily climate simulations using three temporal downscaling techniques in a perfect model approach Hiba Omrani and Paul-Antoine Michelangeli
09:45–10:00	EMS2022-392 Uni- and multivariate bias-adjustment on a 1 km grid over Norway Andreas Dobler , Wai Kwok Wong, Ingjerd Haddeland, Deborah Lawrence, Jan Erik Haugen, and Anita Verpe Dyrrdal
10:00-10:15	EMS2022-78 Statistical downscaling in the Tropics and Mid-latitudes: a comparative assessment for generating regional information on climate change. Alfonso Hernanz, Carlos Correa, Marta Domínguez, Esteban Rodríguez-Guisado, and Ernesto Rodríguez-Camino
10:15–10:30	EMS2022-645 Empirical-Statistical downscaling with EPISODES – status and current developments Philip Lorenz, Theresa Schellander-Gorgas, Amelie Hoff, and Frank Kreienkamp
	Coffee break
Chairpersons: Fa	ai Fung, Barbara Früh
	Sectoral climate services
11:00–11:15	EMS2022-582 Copernicus Climate Change Service (C3S) climate information for the energy sector Chiara Cagnazzo , Carlo Buontempo, Samuel Almond, Marcus Zanacchi, Stijn Vermoote, Julien Nicolas, and Freja Vamborg
11:15–11:30	EMS2022-513 Climate factsheets for world heritage sites in Norway Hans Olav Hygen, Irene Brox Nilsen, and Elin Dalen
11:30-11:45	EMS2022-527 Grain production and climate change in south-eastern Norway Reidun Gangstø Skaland, Inger Hanssen-Bauer, and Hans Olav Hygen
11:45-12:00	EMS2022-32 Preliminary assessment of tourists interest for tourism-tailored climate and environmental products Liliana Velea and Alessandro Gallo

12:00-12:15 EMS2022-498

Methodological choices influencing uncertainties andinformation loss in research on climate adaptation of buildings Jørn Emil Gaarder, Hans Olav Hygen, and Tore Kvande

12:15-12:30 EMS2022-344

Climatological Heat Waves in Norway - a base for Operational Warning System Helga Therese Tilley Tajet, Stine Sagen, Solfrid Agersten, Hans Olav Hygen, Reidun Gangstø Skaland, Cristian Lussana, Irene Brox Nilsen, and John Smits

Dissemination

12:30–12:45 EMS2022-579

Lessons in climate service development from Klimaatlas, the Danish National Climate Atlas Mark R. Payne, Alan Sørensen, Bo Christiansen, Elin Andree, Frederik Boberg, Jian Su, Kristine S. Madsen, Marianne S. Madsen, Martin Olesen, Ole B. Christensen, Rasmus A. Pedersen, Peter Thejll, Peter L. Langen, Steffen M. Olsen, and Torben Schmith

12:45-13:00 EMS2022-583

User-tailored climate predictions – the DWD climate predictions website Birgit Mannig, Andreas Paxian, Miriam Tivig, Klaus Pankatz, Kristina Fröhlich, Amelie Hoff, Katja Reinhardt, Katharina Isensee, Sabrina Wehring, Saskia Buchholz, Alexander Pasternack, Philip Lorenz, Frank Kreienkamp, and Barbara Früh

Lunch break

ES1.5 | Climate Service 3: National and international climate services: user engagement and governance

Convener: Carlo Buontempo | Co-conveners: Francisco J. Doblas-Reyes, Freja Vamborg

14:00-14:15	EMS2022-84
	Addressing the need for a UK National Framework for Climate Services.
	Louise Wilson, Nicola Golding , Chris Hewitt, Jason Lowe, Tyrone Dunbar, and Mark Harrison
14:15-14:30	EMS2022-38
	Enhancement of quality in climate services – development of a formative evaluation scheme for co-creation processes
	Elke Keup-Thiel, Sebastian Bathiany, Markus Dressel, Juliane El Zohbi, Diana Rechid, Susanne Schuck-Zöller, Mirko Suhari, and
	Esther Timm
14:30-14:45	EMS2022-93
	Estimating the current climate mean state at regional to local scales
	Simon C. Scherrer, Cees de Valk, Michael Begert, Stefanie Gubler, Sven Kotlarski, and Mischa Croci-Maspoli
14:45-15:00	EMS2022-193
	The need for global hydro-climatological indicators
	Rasmus E. Benestad, Cristian Lussana, Julia Lutz, Andreas Dobler, Oskar A. Landgren, Jan Erik Haugen, Abdelkader Mezghani,
	Barbara Casati, and Kajsa M. Parding
15:00-15:15	EMS2022-236
	Co-creation of sub-seasonal prediction service for tyre companies in Finland
	Andrea Vajda, Otto Hyvärinen, Mika Rantanen, Andreas Tack, and Markus Mellin
15:15-15:30	EMS2022-291
	The RCC Network – climate services for WMO Members in Europe
	Peter Bissolli, Stefan Rösner, Maarit Roebeling, Maya Körber, and Andrea Kreis
	Coffee break
16:00-16:15	EMS2022-525
	Increasing the resilience of the German transport system to climate change and extreme weather events
	Stephanie Hänsel, Lara Klippel, Christoph Brendel, Enno Nilson, Nils Schade, Lennnart Meine, Carina Herrmann, and Ingo Hache

16:15–16:30	EMS2022-536
	Seaming together a patchwork of knowledges: toward co-producing social and behaviourally informed climate services Micha Werner, Ilyas Masih, Rebecca Emerton, Ilias Pechlivanidis, Marije Schaafsma, Lluís Pesquer, Giuliano Di Baldassarre, Marc van den Homberg, Paolo Mazzoli, Megi Gamtkitsulashvili, Lucia De Stefano, Benedikt Gräler, Györgyi Bela, and Apostolis Tzimas
16:30-16:45	EMS2022-592
	Climate services landscape in Eastern Africa: A survey of how, when and by whom is climate information used
	Neha Mittal , Marta Bruno Soares, Mohammed Abdullahi Hassan, Oliver Kipkogei, Marta Baraibar, and Calistus Wachana
16:45–17:00	EMS2022-614
	Snow depth, relative humidity, and total cloud cover for Poland based on downscaled EuroCORDEX ensemble.
	Maciej Jefimow, Joanna Strużewska, Maria Kłeczek, Anahita Sattari, and Aleksander Norowski
17:00-17:15	EMS2022-667
	Co-design of sectoral climate services based on seasonal prediction information in theMediterranean
	Esteban Rodríguez-Guisado, Ernesto Rodríguez-Camino, Eroteida Sánchez-García, Valentina Bacciu, Marta Chiarle, Jose Costa-
	Saura, Maria Nieves Garrido, Llorenç Lledo, Beatriz Navascués, Roberta Paranunzio, Silvia Terzago, Valentina Mereu, Guido Nigrelli,
	Monia Santini, Albert Soret, and Jost von Hardenberg
PSE.kevr	otes.3 Keynote Presentation Understanding Weather & Climate Processes
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Convener: Frank Beyrich | Co-convener: Barbara Chimani Chairpersons: Frank Beyrich, Barbara Chimani

17:30-18:00 EMS2022-297

FESSTVaL: connecting dense surface networks, supersites and citizen to catch atmospheric variability at kilo- and subkilometer scales

Cathy Hohenegger

Room HS 2 | Thu, 08 Sep 2022

ES2.1 | Science Communication and media

Conveners: Gerald Fleming, Tanja Cegnar Chairperson: Tanja Cegnar

09:00-09:15	EMS2022-35 Improving Communication in the Meteorology Community: The American Meteorological Society's Commission on the Weather, Water, and Climate Enterprise Pamela Emch
09:15-09:30	Podcast De Weerman - Outreach & Communication Award
09:30-09:45	EMS2022-36 How Will Extreme Weather Events Change due to Climate Change? David Schultz
09:45–10:00	EMS2022-132 Relevant and robust climate information and climate change adaptation Rasmus E. Benestad
10:00–10:15	Extreme Weather Congress - Outreach & Communication Award
10:15–10:30	EMS2022-256 On the effectiveness of climate change communication at the Royal Meteorological Institute of Belgium Rozemien De Troch, Emilie Delhaye, Alex Dewalque, and Marc Christiaens
	Coffee break
Chairperson: Ge	erald Fleming
11:00-11:15	EMS2022-131 Weather and War Stanislava Tsalova
11:15–11:30	EMS2022-258 Generating weather symbol data in IMPROVER Stephen Moseley and Ben Ayliffe
11:30-11:45	EMS2022-594 Public responses to heat health alerts in the United Kingdom Andrea Taylor , Barbara Summers, Jenna Barnard, and Samuel Domingos
11:45-12:00	EMS2022-146 Communicating the uncertainties of internal climate variability to the general public Magdalena Mittermeier, Andrea Böhnisch, David Gampe, and Ralf Ludwig
12:00-12:15	EMS2022-348 Non-persuasive communication as a strategy to deliver climate information David Hoffmann, David Holmes , and Ella Healy
12:15-12:30	EMS2022-545 Finnish Meteorological Institute's Climate Bulletin Research Letters Juha A. Karhu , Hada Ajosenpää, Anna Luomaranta, Tiina Ervasti, and Hilppa Gregow

12:30-12:45	EMS2022-145 Keeping momentum working remotely Tanja Cegnar
12:45-12:50	Navigating overload and oblivion in weather warning communication - some insights from Norway
12:50-12:55	Spiral Strip Graphic
12:55-13:00	Future of Media Awards

Lunch break

UP1.2 | Atmospheric boundary-layer processes, turbulence and land-atmosphere interactions

Convener: Gert-Jan Steeneveld | Co-conveners: Carlos Román-Cascón, Nikki Vercauteren, Bert Holtslag Chairpersons: Gert-Jan Steeneveld, Carlos Román-Cascón, Bert Holtslag

Land-atmosphere interactions from models and observations I

14:00-14:30	EMS2022-441 What controls the strength of convective circulations in real-case Large-Eddy Simulations during FESSTVaL? Mirjana Sakradzija, Noviana Dewani, Frank Beyrich, Daniel Klocke, Ivan Bastak Duran, Juerg Schmidli, and Linda Schlemmer
14:30-14:45	EMS2022-638 Large Eddy Simulation of Surface Heterogeneity Induced Secondary Circulation with Background Winds Lijie Zhang, Stefan Poll, and Stefan Kollet
14:45–15:00	EMS2022-630 Turbulence Structure and Mixing in Strongly Stable Boundary-Layer Flows over Thermally Heterogeneous Surfaces Dmitrii Mironov and Peter Sullivan
15:00-15:15	EMS2022-75 Role of changing vegetation properties on the variability of Indian summer monsoon rainfall Sachin Budakoti and Subimal Ghosh
15:15-15:30	EMS2022-238 Simulating cold pools with ICON during the FESSTVaL period Maike Ahlgrimm, Bastian Kirsch, and Mirjana Sakradzija
	Coffee break
Chairpersons: G	ert-Jan Steeneveld, Carlos Román-Cascón, Bert Holtslag
	Land-atmosphere interactions from models and observations II
16:00-16:15	EMS2022-453 Introducing a daily updated Leaf Area Index in a mesoscale Numerical Weather Prediction model Balázs Szintai, Helga Tóth, and László Kullmann
16:15–16:30	EMS2022-499 Semi operational real-data large eddy simulations for agricultural applications Stefan Poll, Lijie Zhang, and Stefan Kollet

16:30–16:45 EMS2022-218 Resolving micro to mesoscale interactions between urban surface and a sea-breeze circulation using high resolution largeeddy simulations Sasu Karttunen, Ewan O'Connor, Antti Hellsten, Carl Fortelius, and Leena Järvi

16:45–17:00	EMS2022-649
	Spatial structures in atmospheric boundary-layer flow – wind tunnel modeling
	Klara Jurcakova and Radka Kellnerova

 17:00-17:15
 EMS2022-274

 Simulating the effects of regional forest cover on mid-latitude boundary-layer clouds

 Gaëtan Noual, Yves Brunet, Patrick Le Moigne, and Christine Lac

PSE.keynotes.2 | Keynote Presentation Operational Systems and Applications

 17:30-18:00
 EMS2022-464

 The Copernicus climate change service: current status and future perspectives.

 Carlo Buontempo and the C3S leadership team

Room HS 2 | Fri, 09 Sep 2022

UP1.2 | Atmospheric boundary-layer processes, turbulence and land-atmosphere interactions

Convener: Gert-Jan Steeneveld | Co-conveners: Carlos Román-Cascón, Nikki Vercauteren, Bert Holtslag Chairpersons: Gert-Jan Steeneveld, Carlos Román-Cascón, Bert Holtslag

PBL studies using OBSERVATIONAL data

09:00-09:15	EMS2022-306
	Doppler Lidar Wind Profiling in Fairbanks (Interior of Alaska) During the 2022 ALPACA Field Campaign
	Elsa Dieudonné, Natalie Brett, Gilberto J. Fochesatto, Jean-Christophe Raut, Barbara D'Anna, Brice Temime-Roussel, Julia Schmale,
	Roman Pohorsky, Andrea Baccarini, Brice Barret, Stefano Decesari, Antonio Donateo, Gianluca Pappaccogli, Federico Scoto, Maurizio
	Busetto, Hervé Delbarre, Slimane Bekki, François Ravetta, and Kathy S. Law
09:15-09:30	EMS2022-615
	Beyond Monin-Obukhov Similarity Theory and the Hockey-Stick Transition
	Gabin Urbancic
09:30-09:45	EMS2022-569
	A long-term climatology of boundary-layer height and stability at Hyytiälä in southern Finland.
	Victoria Sinclair, Jenna Ritvanen, Gabin Urbancic, Yurii Batrak, Irina Statnaia, Dmitri Moisseev, and Mona Kurpaa
00.45 10.00	
09.45-10.00	EMIS2022-142
	imagery to mesoscale forecasts and synontic analysis
	Dorita Rostkier-Edelstein Eval Agassi Pavel Kunin Tamir Tzadok Rong Shyang Sheu Adam Pitrkowski and Avala Ronen
10:00-10:15	EMS2022-92
	A Case Study on the Soil Temperature Cooling Mechanism by Convective Cold Pools using Observation Network Data
	Jaemyeong Mango Seo, Cathy Hohenegger, Nima Shokri, and Hannes Nevermann
10:15–10:30	EMS2022-194
	Observational analysis of the wind speed and turbulence relationship with NO2 concentration
	Carlos Román-Cascón, Carlos Yagüe, Pablo Ortiz, Mariano Sastre, Gregorio Maqueda, Encarna Serrano, Begoña Artiñano, Francisco J.
	Gómez-Moreno, Elias Díaz-Ramiro, Elisabeth Alonso, Javier Fernández, Rafael Borge, Adolfo Narros, Jose M. Cordero, Ana M. García,
	and Andrés Núñez
	Coffee basely
	Coffee break
Chairpersons: G	ert-Jan Steeneveld, Carlos Román-Cascón, Bert Holtslag
44.00 44.45	
11:00-11:15	EMS2022-116
	Recurrence quantification analysis of high-resolution cloud temperature data from EUREC4A
	Stanislaw Krol and Szymon Malinowski
11:15-11:30	FMS2022-177
	Observations of turbulence properties in coupled and decoupled stratocumulus-topped marine boundary layers
	Jakub L. Nowak, Holger Siebert, Kai-Erik Szodry, and Szymon P. Malinowski
11:30–11:45	EMS2022-405
	Investigation of local carbon fluxes from lakes to the atmosphere from eddy covariance observations and the erroneous
	contribution from non-local processes
	Leonie Esters, Anna Rutgersson, Erik Nilsson, and Erik Shalée
	Madals and schemes development and evolution
	models and schemes: development and evaluation

11:45-12:00	EMS2022-27
	Surface air temperature bias in meteorological models due to misrepresentation of the atmospheric boundary layer thickness Igor Esau and Marvin Kähnert
12:00-12:15	EMS2022-454
	Sensitivity of the LES model PALM in the urban environment: a case study in Prague
	Michal Belda , Resler Jaroslav, Geletič Jan, Krč Pavel, Maronga Bjorn, Suhring Matthias, Kurppa Mona, and Fuka Vladimír
12:15-12:30	EMS2022-159
	Direct Numerical Simulation of the Aerodynamically Rough Atmospheric Boundary Layer
	Jonathan Kostelecky and Cedrick Ansorge
12:30-12:45	EMS2022-87
	Testing the Nonlocal Three-dimensional Transilient Turbulence (NLT3D) scheme in the ICON model
	Volker Küll and Andreas Bott
12.42-13.00	EM\$2022-385
12.13 13.00	An Evaluation of Algebraic Turbulence Length Scale Formulations
	Stephanie Reilly, Ivan Bastak Duran, Anurose Theethai-Jacob, and Juerg Schmidli
	Lunch break
Chairpersons: G	Sert-Jan Steeneveld, Carlos Román-Cascón, Bert Holtslag
14:00-14:15	EMS2022-566
	Unified parameterization of turbulence and boundary layer clouds using the updated two-energies turbulence scheme Juerg Schmidli, Ivan Bašták Ďurán, and Mirjana Sakradzija
14:15-14:30	EMS2022-617
	Stochastic modeling of transient Ekman flow at arbitrary Reynolds number driven by horizontal bottom wall oscillation
	Marten Klein and Heiko Schmidt
14:30-14:45	FM\$2022-693
	Modelling the dispersion of a passive tracer from a continuous poit source in a steady thermally-driven slope wind
	Sofia Farina, Dino Zardi , and Andrea Bisignano
14.45-15.00	EM\$2022-459
14.45-15.00	Shear-Convection flux decomposition in atmospheric boundary layer using neural network
	Sara Shamekh and Pierre Gentine
15.00 15.15	EM\$2022 505
15.00-15.15	A station-based evaluation of south foehn forecasting with COSMO-1
	Yue Tian, Juerg Schmidli, and Julian Quimbayo-Duarte
15.15_15.20	EM\$2022-34
10.00	Penetrative convection in Nocturnal ABL: Numerical Simulations
	Kr Sreenivas , Shaurya Kaushal, and Dhiraj Kumar Singh
PSE.SOCIA	1.4 Closing reception & Announcement winner of Innovative poster presentation
award	

15:45–16:15 Closing reception & Announcement winner of Innovative poster presentation award