Daily programme for room HS 1

Room HS 1 | Sun, 04 Sep 2022

SIM1 | Introduction for chairs and small reception

17:30–18:45 Introduction for chairs and small reception

Room HS 1 | Mon, 05 Sep 2022

UP2.2 | Analysis, monitoring and prediction of chemical weather, air pollution, and the effects of COVID-19

Conveners: Francesca Costabile, Cathy Wing Yi Li, Guy Brasseur | Co-conveners: Leena Järvi, Jan Semenza, Rajesh Kumar Chairpersons: Francesca Costabile, Leena Järvi, Guy Brasseur

14:00-14:15	EMS2022-597
	The response of secondary chemical species to COVID-19 related emission distrubances
	Guy Brasseur, Benjamin Gaubert, Idir Bouarar, Wolfgang Steinbrecht, Claire Granier, and Thierno Doumbia
14:15-14:30	EMS2022-699
	Non-CO2 Forcers and Their Climate, Weather, Air Quality and Health Impacts – New Project FOCI Tomas Halenka and Ranjeet Sokhi
14:30-14:45	EMS2022-164
	Introduction to the AQ-WATCH project and its multi-model air quality forecast system
	Cathy Wing Yi Li, Guy Brasseur, Mikhail Sofiev, Renske Timmermans, Rajesh Kumar, Gabriele Pfister, Dan Mo, Claire Granier,
	Thierno Doumbia, Sara Basart, Olivier Salvi, Bastien Caillard, and Yvonne Boose
14:45-15:00	EMS2022-289
	A comparison of the PurpleAir PA-II sensor to both regulatory particulate matter monitors and meteorological
	instrumentation in Asheville, North Carolina
	Evan Couzo and Christopher Godfrey
15:00-15:15	EMS2022-322
	The Korean Integrated Model (KIM) coupled with atmospheric chemistry model: plans and preliminary results
	Shin-Young Park and Soo Ya Bae
15:15-15:30	EMS2022-604
	Changes of social contacts due to the Covid-19 pandemic and the dependence on weather parameters
	Lisa Schielicke, May Bohmann, and Philipp Ertz

Coffee break

ES1.8 | Physical Climate Storylines to inform decision making.

Convener: Marina Baldissera Pacchetti | Co-conveners: Bart van den Hurk, Theodore Shepherd, Suraje Dessai, Karin van der Wiel, Jana Sillmann Chairperson: Marina Baldissera Pacchetti

- 16:00-16:05 Introduction
 16:05-16:20 EMS2022-372 Co-produced storylines of climate hazard uncertainty for the heritage sector Christopher Goddard and Fai Fung
 16:20-16:35 EMS2022-469 Storylines of future climate extremes in Switzerland Alina Mastai, Kathrin Wehrli, Sven Kotlarski, and Erich Fischer
 16:35-16:50 EMS2022-494
- Building storylines for wind resources: our experience with users
 Ana Lopez and Gil Lizcano

16:50-17:05 EMS2022-416 A climate storyline approach to inform private sector decisions on cross-border climate risks: A case study of the chocolate industry in Europe Ertug Ercin, Alexander Kaune, and Cagri Karaman 17:05-17:20 EMS2022-313

Storylines: A severe rainfall-landslide event in Past, Present & Future climate scenarios Aditya Narayan Mishra, Douglas Maraun, Raphael Knevels, Heimo Truhetz, Emanuele Bevacqua, Herwig Proske, Helene Petschko, Philip Leopold, Alexander Brenning, Giuseppe Zappa, and Armin Schaffer

17:20–17:30 Lessons learned roundtable

Room HS 1 | Tue, 06 Sep 2022

OSA2.3 | Energy meteorology

Convener: Sven-Erik Gryning | Co-conveners: Ekaterina Batchvarova, Marion Schroedter-Homscheidt, Yves-Marie Saint-Drenan Chairperson: Yves-Marie Saint-Drenan

09:00-09:15	EMS2022-486 High resolution hybrid forecast based on the combination of satellite and an All Sky Imager (ASI) network forecasts Jorge Lezaca, Annette Hammer, and Ontje Lünsdorf
09:15-09:30	EMS2022-175 Pareto optical flow solutions for ensemble, satellite-based forecasts of irradiance and PV Garrett Good
09:30-09:45	EMS2022-609 Using Satellite Information to Evaluate Cloud Forecast from WRF-Solar EPS Manajit Sengupta, Jaemo Yang, Yu Xie, Pedro Jimenez, and Ju-Hye Kim
09:45-10:00	EMS2022-572 On hand available predictors for operational satellite-based forecast Sylvain Cros , Jordi Badosa, André Szantaï, and Martial Haeffelin
10:00-10:15	EMS2022-203 Comparison of irradiance forecasts from operational NWP model and satellite-based estimates over Fennoscandia Viivi Kallio-Myers, Aku Riihelä, David Schoenach, Erik Gregow, Thomas Carlund, and Anders Lindfors
10:15-10:30	EMS2022-198 Follow the sun? The effects of national solar capacity targets on renewable generation and security of supply Berit Czock, Julian Keutz, and Stephanie Fiedler
	Coffee break
Chairperson: M	arion Schroedter-Homscheidt
11:00-11:15	EMS2022-547 Worldwide solar radiation benchmark of modelled surface irradiance Anne Forstinger , Stefan Wilbert, Adam R Jensen, Birk Kraas, Carlos Fernández Peruchena, Chris A Gueymard, Dario Ronzio, Dazhi Yang, Elena Collino, Jesús Polo Martinez, Jose A Ruiz-Arias, Natalie Hanrieder, Philippe Blanc, and Yves-Marie Saint-Drenan
11:15-11:30	EMS2022-661 End-to-end learning of representative PV capacity factors from aggregated PV feed-ins Matthias Zech and Lueder von Bremen
11:30-11:45	EMS2022-504 Cloud Shadows in Satellite-Based Solar irradiance Estimation: Improved Correction using EUMETSAT's Cloud Top Height Data Arindam Roy, Annette Hammer, Detlev Heinemann, and Ontje Lünsdorf
11:45-12:00	EMS2022-366 Characterizing and correcting Heliosat Surface Solar Radiation bias on intra-day time scales with deep neural networks Alberto Carpentieri, Martin Wild, Doris Folini, and Angela Meyer
12:00-12:15	EMS2022-713 Irradiance and cloud optical properties from photovoltaic power data under variable atmospheric conditions James Barry , Stefanie Meilinger, Klaus Pfeilsticker, Felix Gödde, Bernhard Mayer, Hartwig Deneke, Jonas Witthuhn, Leonhard Scheck, Marion Schroedter-Homscheidt, Philipp Hofbauer, and Matthias Struck

12:15-12:30	EMS2022-404
	Solar resource mapping in Norway
	Andreas Dobler, Erik Berge, Steinar Eastwood, Jean Rabault Førland, Hans Olav Hygen, and Martin Lilleeng Sætra
12:30-12:45	EMS2022-286
	Influence of aerosols on photovoltaic power in Ghana: Case study from Koforidua
	Stefanie Meilinger and Armelle Zemo Mekeng
12.45 12.00	EM\$2022 151
12.45-15.00	Solar Power Newcasting in the Presence of Sabara dust: Can Deen Learning based on Satellite and Synthetic Production Data
	Recognize the Production-Offcetc?
	Petrina Papazek and Irene Schicker
	Lunch break
Chairperson: Ek	aterina Batchvarova
14:00–14:15	EMS2022-216
	Benefits of Doppler wind lidars to improve short-term low-level wind forecasts
	Tatiana Nomokonova, Philipp Griewank, Ulrich Löhnert, Takemasa Miyoshi, Tobias Necker, and Martin Weissmann
14.15 14.20	EM62022 240
14:15-14:30	EMS2022-219
	From a second seco
	Light Alaskii, Alders Lindors, vivi Rano-wyers, and nene suonin
14:30-14:45	EMS2022-428
	Decentralized forecasting of wind energy generation with an adaptive machine learning approach to support ancillary grid
	services
	Lukas Holicki, Manuel Dröse, Gregor Schürmann, and Marcus Letzel
14:45–15:00	EMS2022-465
	Study of the interaction of atmospheric wakes from several offshore wind farms as observed by Synthetic Aperture Radar
	(SAR) system
	Bughsin' Djath and Johannes Schulz-Stellenfleth
15.00-15.15	EM\$2022-174
13.00 13.13	Influence of offshore wind farms on the latent heat flux in the marine boundary layer
	Andreas Platis, Yann Büchau, and Jens Bange
15:15-15:30	EMS2022-631
	Assessment of atmospheric stability measurements from microwave radiometer observations for wind energy applications
	Domenico Cimini, Rémi Gandoin, Stephanie Fiedler, Hector Wilson, Bernhard Pospichal, Pauline Martinet, Andrea Balotti, Sabrina
	Gentile, and Filomena Romano
	Coffee break
Chairperson: Sv	en-Erik Gryning
16.00-16.12	EM\$2022.204
10.00-10.15	EM32022-294
	Fabian Mockert, Christian M. Grams, Tom Brown, Fabian Neumann, and James Fallon
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16:15-16:30	EMS2022-196
	The place beyond the lines - Efficient storage allocation in a spatially unbalanced power system with a high share of
	renewables
	Berit Czock, Amelie Sitzmann, Jonas Zinke, and Stephanie Fiedler

16:30–16:45	EMS2022-91 Sizing of generation and storage capacities for tidal stream energy systems in view of the temporal pattern of tidal stream power Hans Georg Beyer and Knud Simonsen
16:45–17:00	EMS2022-678 Creating and validating high-resolution wind atlases Rogier Floors , Bjarke Tobias Olsen, and Neil Davis
17:00–17:15	EMS2022-168 Evaluation of machine-learning-based solar PV and wind power regional models for Spain Ricardo Aler-Mur, Guadalupe Sánchez-Hernández , Antonio Jiménez-Garrote, Miguel López-Cuesta, Inés Galván-León, and David Pozo-Vazquez

SIM1 | Introduction for chairs and small reception

18:15–19:30 Introduction for chairs and small reception

Room HS 1 | Wed, 07 Sep 2022

UP1.5 | Atmospheric measurements: Instruments, experiments, networks and long-term programs using in-situ and remote sensing techniques

Convener: Frank Beyrich | Co-conveners: Fred C. Bosveld, Jens Bange, Domenico Cimini Chairpersons: Frank Beyrich, Fred C. Bosveld

Ground-based remote sensing operations and synergy

09:00-09:30	EMS2022-119 DWD Pilotstation – Evaluating ground-based remote sensing systems for future observing networks Christine Knist, Markus Kayser, Moritz Löffler, Jasmin Vural, Annika Schomburg, Ulrich Görsdorf, Felix Lauermann, Ronny Leinweber, Stefan Klink, and Volker Lehmann		
09:30-09:45	EMS2022-623 EUMETNET's E-PROFILE network for thermodynamic profiling and the detection of airborne hazards Alexander Haefele, Simone Bircher-Adrot, Rolf Rüfenacht, Volker Lehmann, Ina Mattis, Augustin Mortier, Domenico Cimini, and Myles Turp		
09:45-10:00	EMS2022-234 Long-term ceilometer/wind-lidar observations of aerosol-layer depth in the Arctic Sven-Erik Gryning, Ekaterina Batchvarova, Rogier Floors, Christoph Münkel, Lise Lotte Sørensen, and Henrik Skov		
10:00–10:15	EMS2022-676 Deriving 3D wind fields in the Paris urban atmosphere from scanning Doppler lidar observations Jonnathan Cespedes, Simone Kotthaus , Ludovic Thobois, and Martial Haeffelin		
10:15–10:30	EMS2022-439 Observation of turbulence profiles with lidar synergy Diego Lange Vega , Florian Späth, Syed Abbas, Andreas Behrendt, and Volker Wulfmeyer		
	Coffee break		
Chairpersons: Je	Chairpersons: Jens Bange, Frank Beyrich		
	Experiments and networks		
11:00-11:30	EMS2022-616 LIAISE campaign: Measuring and Modelling Evapotranspiration over Irrigated Terrain in a Semi-Arid Environment Oscar Hartogensis, Aaron Boone, Mary-Rose Mangan, Joaquim Bellvert, Martin Best, Jennifer Brooke, Guylaine Canut-Rocafot, Joan Cuxart, Patrick Le Moigne, Josep Ramon Miro, Jan Polcher, Jeremy Price, and Pere Quintana Segui		
11:30-11:45	EMS2022-267 Urban meteorological networks in Europe: A review Jelena Dunjic, Stevan Savic, Dragan Milosevic, and Ivan Secerov		
11:45-12:00	EMS2022-462 The morphology of convective cold pools in a dense station network during FESSTVaL Bastian Kirsch, Cathy Hohenegger, and Felix Ament		
12:00-12:15	EMS2022-214 High-resolution observation of extreme winds at the Sub-Mesoscale with Doppler wind lidars during FESSTVaL Julian Steinheuer and Ulrich Löhnert		

12:15-12:30	EMS2022-581 Vertical velocity variance and its dependency on meteorological parameters in the convective boundary layer Noviana Dewani , Mirjana Sakradzija, Juerg Schmidli, and Linda Schlemmer
12:30-12:45	EMS2022-577 Autonomous Monitoring of Soil Moisture & Snow Water Equivalent with Stationary and Mobile Cosmic-Ray Neutron Sensors Martin Schrön, Steffen Zacharias, Frank Beyrich, Falk Böttcher, Friedrich Boeing, Andreas Marx, Eshrat Fatima, Rohini Kumar, Maren Kaluza, Luis Samaniego, Sabine Attinger, and Peter Dietrich
12:45-13:00	EMS2022-371 The Unmanned Multipurpose Airborne Sensor Carrier MASC-V for Offshore Wind Energy Research Ines Weber , Andreas Platis, Kjell zum Berge, Martin Schön, Jakob Boventer, Matteo Bamati, Vasileios Savvakis, Gabriela Miranda Garcia, Mosaab Sajidi, Yongtan Wang, and Jens Bange
	Lunch break
Chairpersons: F	red C. Bosveld, Jens Bange
	Instruments and algorithms
14:00-14:15	EMS2022-133 Towards spatio-temporal turbulence measurements in the atmospheric boundary layer with a fleet of UAS Norman Wildmann and Tamino Wetz
14:15-14:30	EMS2022-237 Validation of Doppler wind LiDARs of the German Weather Service (DWD) using small unmanned aerial systems (UAS) Jakob Boventer, Ines Weber, Martin Schön, Kjell zum Berge, Andreas Platis, Jens Bange, Frank Beyrich, Carola Detring, and Eileen Päschke
14:30-14:45	EMS2022-682 Characterizing the influence of obstacles on scanning microwave profilers Tobias Böck, Bernhard Pospichal, and Ulrich Löhnert
14:45-15:00	EMS2022-511 Measuring Hailstone Trajectories with the HailSonde Joshua Soderholm, Matthew Kumjian, Anders Peterson, Jordan Brook, and Alain Protat
15:00-15:15	EMS2022-154 Towards the combination of in-situ and satellite-based solar radiation data in near-realtime – the project DUETT at DWD Anna Klameth, Sven Brinckmann, and Jörg Trentmann
15:15-15:30	Poster Pitches
	Coffee break
Chairpersons: F	rank Beyrich, Fred C. Bosveld
	Intsrumental developments
16:00–16:15	EMS2022-629 A Doppler Lidar technique for monitoring the "whole" boundary layer Hans-Juergen Kirtzel and Gerhard Peters
16:15-16:30	EMS2022-559 Latest developments on Vaisala broadband DIAL with examples Minttu Tuononen, Raisa Lehtinen, Pekko Tuominen, and Reijo Roininen

16:30-16:45 EMS2022-633 Validation of the New Version of the WindCube Scan Lidar Cristina Benzo and Ludovic Thobois 16:45-17:00 EMS2022-130 Ouantifying biases in open-path eddy covariance CO2 flux measuren

Quantifying biases in open-path eddy covariance CO2 flux measurements caused by spectroscopic effects in broadband nondispersive infrared gas analyzers Ivan Bogoev

17:00-17:15 EMS2022-59

Introducing Mobile Micrometeorological Carts (MMCs) for urban and non-urban micrometeorological measurements Dragan Milošević, Stevan Savić, Ivan Šećerov, and Jelena Dunjić

Room HS 1 | Thu, 08 Sep 2022

UP1.1 | Atmospheric dynamics, predictability, and extremes

Conveners: Christian M. Grams, Gabriele Messori | Co-conveners: Michael Riemer, Sebastian Schemm, Davide Faranda Chairpersons: Christian M. Grams, Gabriele Messori

Atmospheric Dynamics and Extreme Events across Climate Zones

09:00-09:30	EMS2022-642 Dynamics of dry intrusion air streams and their relevance for extreme weather Shira Raveh-Rubin , Elody Fluck, Yonatan Givon, Eyal Ilotoviz, Noy Klaider, Leehi Magaritz-Ronen, Stav Nahum, Deepika Rai, Vered Silverman, and Tsruya Yaari
	a) Midlatitudes
09:30-09:45	EMS2022-316 The role of Rossby wave breaking for extreme and annual mean precipitation in (semi)arid regions Andries Jan De Vries, Moshe Armon, Klaus Klingmüller, Raphael Portmann, and Daniela I.V. Domeisen
09:45–10:00	EMS2022-136 A storm-track connection between North American cold extremes and European wet/windy extremes Jacopo Riboldi, Richard Leeding, Antonio Segalini, and Gabriele Messori
10:00–10:15	EMS2022-407 Moisture origin of the extreme precipitation event in Western Europe in July 2021 Chris Weijenborg, Imme Benedict , Florian Polak, Thomas Vermeulen, Peter Kalverla, and Harald Sodemann
	b) Tropics
10:15–10:30	EMS2022-652 Unraveling cross-equatorial dry intrusion influence on Indian summer monsoon rainfall Deepika Rai and Shira Raveh-Rubin

Coffee break

UP3.7 | Sub-seasonal to seasonal predictability: Processes, methods, and impacts

Convener: Daniela Domeisen | Co-conveners: Johanna Baehr, Dominik Büeler, Maria Pyrina, Frederic Vitart, Christopher White, Priyanka Yadav Chairpersons: Priyanka Yadav, Dominik Büeler, Daniela Domeisen

Mechanisms & Processes

11:00–11:15	EMS2022-156
	Sub-seasonal prediction of the year-round Atlantic-European weather regimes
	Marisol Osman, Christian M. Grams, and Remo Beerli
11:15-11:30	EMS2022-226
	The role of warm conveyor belts for the sub-seasonal prediction of blocked weather regimes
	Jan Wandel, Julian F. Quinting, Dominik Büeler, Peter Knippertz, and Christian M. Grams
11:30-11:45	EMS2022-429
	Predictability of the North Atlantic European region and the role of Indian Ocean during early winter
	Muhammad Adnan Abid, Fred Kucharski, and Franco Molteni
11:45-12:00	EMS2022-192
	Which Sudden Stratospheric Warming Events are Most Predictable?
	Chaim Garfinkel and Dvir Chwat

Predictability & Methods

12:00-12:15	EMS2022-69
	Seasonal Forecasts of Winter Temperature Improved by Higher-Order Modes of Mean Sea Level Pressure Variability in the North
	Atlantic Sector
	Clementine Dalelane
12:15-12:30	EMS2022-110
	Identifying relevant large-scale predictors for sub-seasonal precipitation forecast using explainable neural networks
	Niclas Rieger, Estrella Olmedo, Álvaro Corral, Linus Magnusson, Laura Ferranti, and Antonio Turiel
12:30-12:45	EMS2022-497
	Ensemble forecast of an index of the Madden Julian Oscillation using a stochastic weather generator based on analogs of Z500
	Meriem Krouma, Pascal Yiou, and Riccardo Silini
12:45-13:00	EMS2022-434
	Characterizing Optimal Atlantic-European Blocking Precursors Using a Linear Inverse Model
	Maria Madsen, Volkmar Wirth, Michael Riemer, and Christian Grams
	Lunch break

UP1.1 | Atmospheric dynamics, predictability, and extremes

Conveners: Christian M. Grams, Gabriele Messori | Co-conveners: Michael Riemer, Sebastian Schemm, Davide Faranda Chairpersons: Gabriele Messori, Christian M. Grams

14:00-14:15	EMS2022-95
	The Intricacies of Identifying Equatorial Waves
	Peter Knippertz, Maria Gehne, George N. Kiladis, Kazuyoshi Kikuchi, Athul Rasheeda Satheesh, Paul E. Roundy, Gui-Ying Yang,
	Nedjeljka Žagar, Juliana Dias, Andreas H. Fink, John Methven, Andreas Schlueter, Frank Sielmann, and Matthew C. Wheeler
	c) Arctic
14:15-14:30	EMS2022-73
	Local versus remote origin of wintertime extreme surface energy budget anomalies in the Arctic
	Lukas Papritz, Sonja Murto, Rodrigo Caballero, Gabriele Messori, Matthias Röthlisberger, Gunilla Svensson, and Heini Wernli
14:30-14:45	EMS2022-339
	Impact of low ice area in Arctic on atmospheric circulation and climate extremes in mid to high latitudes of the Northern
	Hemisphere
	Joanna Jędruszkiewicz, Piotr Piotrowski, and Joanna Wibig
14:45-15:00	EMS2022-107
	Stratospheric Modulation of Arctic Oscillation Extremes as Represented by Extended-Range Ensemble Forecasts
	Jonas Spaeth and Thomas Birner
	d) Event attribution
15:00-15:15	EMS2022-666
	Extreme event attribution at Deutscher Wetterdienst - status and plans
	Philip Lorenz, Jordis Tradowsky, and Frank Kreienkamp
	Dynamics of the Jet, Rossby Waves, and Blocking
15:15-15:30	EMS2022-272
	The Importance of Anticyclonic Transient Eddies for Atmospheric Block Persistence
	Charlie Suitters, Oscar Martinez-Alvarado, Kevin Hodges, Reinhard Schiemann, and Duncan Ackerley

Coffee break

Chairpersons: Gabriele Messori, Christian M. Grams

16:00–16:15	EMS2022-109
	Dynamics of blocked weather regimes in the Atlantic-European region: a combined PV and local wave activity approach
	Franziska Teubler, Christopher Polster, Volkmar Wirth, Seraphine Hauser, Christian Grams, and Michael Riemer
16:15-16:30	EMS2022-120
	A process-based understanding of Greenland Blocking regime life cycle dynamics in ERA-5 reanalysis from a potential vorticity perspective
	Seraphine Hauser, Peter Knippertz, Julian F. Quinting, Michael Riemer, Franziska Teubler, and Christian M. Grams
16:30-16:45	EMS2022-276
	Disentangling diabatic and adiabatic drivers during the life cycle of a jet streak from a Lagrangian PV-gradient perspective
	Mona Bukenberger, Sebastian Schemm, and Stefan Rüdisühli
16:45-17:00	EMS2022-250
	Nonadiabatic and nonquasigeostrophic sources of upper tropospheric Rossby wave activity
	Hung-I Lee and Noboru Nakamura
17:00-17:15	EMS2022-298
	Kinematic processes contributing to the intensification of anomalously-strong North Atlantic jets Andrew Winters

Predictability and Numerical Modelling

Room HS 1 | Fri, 09 Sep 2022

UP1.1 | Atmospheric dynamics, predictability, and extremes

Conveners: Christian M. Grams, Gabriele Messori | Co-conveners: Michael Riemer, Sebastian Schemm, Davide Faranda Chairpersons: Annika Oertel, Christian M. Grams

09:00-09:15	EMS2022-398
	The transition from practical to intrinsic predictability of midlatitude weather
	Iobias Selz, Michael Riemer, and George Craig
09:15-09:30	EMS2022-287
	Predictability of midlatitude Rossby wave packets and their underlying dynamics
	Isabelle Prestel-Kupferer, Soren Schmidt, Michael Riemer, and Franziska Teubler
09:30-09:45	EMS2022-228
	The role of warm conveyor belts for medium-range forecast error growth
	Moritz Picki, Christian M Grams, and Julian F Quinting
09:45-10:00	EMS2022-56
	Impact of combined uncertainties on convective precipitation during different synoptic control
	Takumi Matsunobu, Christian Keil, and Christian Barthlott
10:00-10:15	EMS2022-104
	A two-scale model for the meso- and synoptic scales
	Mirjam Hirt and George Craig
10:15-10:30	EMS2022-565
	Impacts of the coupling of the wave and the ocean model to the atmospheric model on the predictability of extreme events
	Anne Wiese, Ha Thi Minh Ho-Hagemann, Sebastian Grayek, Wolfgang Koch, and Joanna Staneva
	Temperature Extremes
	Coffee break
Chairpersons: Lu	ukas Papritz, Christian M. Grams
11.00-11.12	EM\$2022-227
11.00 11.15	How warm conveyor belt activity across the North Pacific influenced the predictability of the North American heat wave 2021
	Annika Oertel, Moritz Pickl, Julian F. Quinting, Seraphine Hauser, Jan Wandel, Linus Magnusson, Magdalena Balmaseda, Frederic Vitart,
	and Christian M. Grams
11:15-11:30	EMS2022-213
	The role of transient eddies and diabatic heating in the maintenance of European heat waves: a nonlinear quasi-stationary wave
	perspective
	Qiyun Ma and Christian Franzke
11:30-11:45	EMS2022-252
	Air-sea interactions and diabatic processes in the Gulf Stream region and their role in the life-cycle of a blocking anticyclone: a
	Marta Wenta, Christian M. Grams, Lucas Papritz, and Marc Federer
11:45-12:00	EMS2022-602
	European heatwaves in present and future climate simulations: A Lagrangian analysis

12:00-12:15	EMS2022-46 Lagrangian characterization of heat waves by Eulerian tracer advection with relaxation Amelie Mayer and Volkmar Wirth
12:15-12:30	EMS2022-176 A global comparison of heatwave magnitude indices using ERA5 reanalysis data Emmanuele Russo and Daniela Domeisen
12:30-12:45	EMS2022-524 Investigation of the vertical structure of the lower atmosphere during heat wave conditions Till Fohrmann, Andreas Hense, and Petra Friederichs
12:45-13:00	EMS2022-76 Quantifying the physical processes leading to atmospheric hot extremes at a global scale Matthias Röthlisberger and Lukas Papritz
	Lunch break
Chairpersons:	Marisol Osman, Christian M. Grams
14:00-14:15	EMS2022-304 An upper bound for extreme temperatures over midlatitude land Yi Zhang and William Boos
	S2D and Climate Change
14:15–14:30	EMS2022-125 Interannual vs Decadal Impacts of Pacific Variability Melissa Seabrook, Doug Smith, Nick Dunstone, Rosie Eade, Leon Hermanson, and Adam Scaife
14:30-14:45	EMS2022-19 Young Scientist Conference Award How is the extratropical circulation affected by reduced Atlantic and Pacific land-sea thermal contrast? Alice Portal, Claudia Pasquero, Fabio D'Andrea, Paolo Davini, Mostafa Hamouda, and Gwendal Rivière
14:45–15:00	EMS2022-40 Climate change-induced jet variability over the North Atlantic: Trends and drivers Alejandro Hermoso and Sebastian Schemm
15:00-15:15	EMS2022-560 Latent Dirichlet Allocation: a new machine learning tool to evaluate CMIP6 climate models atmospheric circulation Nemo Malhomme, Davide Faranda, Bérengère Podvin, and Lionel Mathelin
15:15-15:30	EMS2022-573 The relationship between precipitation and extra-tropical cyclone intensity in different idealised climates Victoria Sinclair and Jennifer Catto