

8th International Conference on Meteorology and Climatology of the Mediterranean (MetMed)

May, 25 - 27, 2021



Programme (Central European Time zone)

25th MAY 2021

9h00-9h30 WELCOME

Climatology (Chair: J.A. Guijarro)

Climate Risk Information for SupportIng ADAptation Planning and operaTion

9h30-9h45 (CRISI-ADAPT II): CMIP5-CMIP6 comparison

Robert Monjo et al.

Coastal impacts of Storm Gloria (January 2020) over the north-western

9h45-10h00 Mediterranean

Angel Amores et al.

Extreme precipitation evolution in the western Mediterranean under climate

10h00-10h15 change

Pau Benetó et al.

Identifying storm nests and most conflictive areas in Barcelona for 2013 - 2018

10h15-10h30 period

Laura Esbrí et al.

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10h30-10h45 Multi-ensemble and multi-scenario Mediterranean climate change projections Josep Cos et al.

10h45-11h00 BREAK

Climatology (Chair: J. Calbó)

Invited talk. The first assessment report on Mediterranean climate and environmental change Joël Guiot

A method to validate temperature homogenization techniques: the Slovenian 11h30-11h45 network case study Giulio N. Caroletti et al.

Surface urban heat islands of Zagreb and Split (Croatia) - local climate zone 11h45-12h00 based definition Matej Žgela et al.

Uncertainties of observed surface temperature trends: the case of the Balearic 12h00-12h15 Islands
José A. Guijarro et al.

12h15-12h30 Urban Heat Island Effect on Convective Precipitation Event in Izmir, Turkey Fatma Başak Saka et al.

POSTER PRESENTATIONS (Climatology and Interdisciplinary sessions)

1P1: A single scaling parameter to describe a rainfall regime: application on Málaga (Andalusia, Spain)

Maria C. Casas et al.

1P2: Analysis of cloud cover from ERA5 reanalysis and visual observations in Barcelona

Yolanda Sola et al.

1P3: Catalogue of the flooding events on the Croatian part of the eastern Adriatic coast

Matea Martinkovic et al.

1P4: Climate predictions to forecast fire activity

Andrina Gincheva et al.

12h30-13h30 1P5: Supercell Pre-convective Environments in Spain: a dynamic downscaling of ERA-5 Reanalysis

Carlos Calvo et al.

5P1: Assessing the correlation between temporal trends of extreme winter rainfall indices and aerobiological variables in Catalonia (NE of the Iberian Peninsula)

Maria C. Casas et al.

5P2: Development of an integrated system to analyse interactions between climatic factors and the risk of potential exposure to Covid-19 Vito Telesca et al.

5P3: The influence of the local weather conditions on seed germination of Hypericum balearicum L.

Neus Seguí et al.

13h30-14h30 BREAK

Climatology (Chair: P. Nastos)

14h30-14h45 Analysis of snow and fog events affecting aviation operations in selected Airports of Turkey

Meryem Mutlu et al.

14h45-15h00 Characterization of the Iberian heat waves over the last 70 years Laura Paredes et al.

Evolution of synoptic patterns associated with north wind episodes (tramuntana) 15h00-15h15 in northeastern Catalonia throughout the 21st century Marc Prohom et al.

| 15h15-15h30 | Implementation of the standardized precipitation index (SPI) for regional drought assessment in a Mediterranean area Ouafik Boulariah et al. |
|-------------|--|
| 15h30-15h45 | Longitudinal differences in long-term changes of Quasibiennial Oscillation Rahan Ozturk et al. |
| 15h45-16h00 | Synoptic patterns and mesoscale precursors of Italian tornadoes Mario M. Miglietta et al. |
| 16h00-16h15 | BREAK |

Interdisciplinary studies (Chair: J. Mazón, J.P. Montávez, V. Telesca)

| 16h15-16h45 | Invited talk. Precision irrigation system for agricultural water management in changing climate M. Mancini et al. |
|-------------|--|
| 16h45-17h00 | Assessment of the future climate potential for tourism over Spain using a combination of downscaling approaches and quantitative impact models Maria F. Cardell et al. |
| 17h00-17h15 | Atmospheric circulation patterns promoting the scarcity of near-natural Iberian hydrological resources since 1980s |

Temperature and absolute humidity as early predictors of COVID-19 first wave 17h15-17h30 severity and transmission intensity in Spain Beatriz Hervella et al.

17h30-17h45 Winds blowing across the Mediterranean: reanalysis vs reality Jaume Ramon et al.

Amar Halifa-Marín et al.

17h45-18h00 Impacts of unpredictable climate variability on renewable energy deployment Aina Maimó et al.

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Processes and applications (Chair: J. Cuxart, P. Le Moigne)

| 9h00-9h30 | Invited talk. High-precision weighable lysimeter – a holistic tool for quantifying and tracking water fluxes at the land surface and in the soil Jannis Groh |
|-------------|--|
| 9h30-9h45 | Upper-level large-scale precursors for African dust outbreaks over the Iberian Peninsula and the western Mediterranean Jose A. Garcia et al. |
| 9h45-10h00 | Evaluation and calibration of Heat Ratio transpiration method using hand-made probes in a Mediterranean species under contrasted climatic conditions Ana M. Sabater et al. |
| 10h00-10h15 | Assessment of similarity theory error in a semi-arid environment Belen Marti et al. |
| 10h15-10h30 | Statistical analysis of the sea-breeze features in the island of Mallorca Antoni Grau et al. |
| 10h30-10h45 | Statistical analysis of meteorological drought in Antalya Basin, Turkey Muhammed H. Burgan et al. |
| 10h45-11h00 | BREAK |

Processes and applications (Chair: A. Boone, M.A. Jiménez)

11h00-11h15 Observed mesoscale patterns in the irrigated Eastern Ebro basin Joan Cuxart et al.

The role of storm motion in controlling hydrological response: the 28 September 11h15-11h30 2012 catastrophic flash flood in Murcia, south-eastern Spain Arnau Amengual et al.

50-year wind record and rissaga event associated with a winter squall line in the 11h30-11h45 Balearics
Agustí Jansà et al.

A neural network designed to predict meteotsunamis in Ciutadella harbour 11h45-12h00 (Balearic Islands, Spain)

Maria M. Vich et al.

The convective evolution of Mediterranean Tropical-Like Cyclones 12h00 - 12h15 Stavros Dafis et al.

Meteorological and photochemical modeling analysis of extreme ozone episodes 12h15-12h30 in Barcelona and surrounding region during summer 2019

Mireia Udina et al.

POSTER PRESENTATIONS (Processes and modelling sessions)

2P1: An approach to Storm Filomena severe snowfall and precipitation in Spain: preliminary results

Carlos Calvo et al.

2P2: On the vertical distribution of African dust over the western Mediterranean José A. Garcia et al.

2P3: The influence of the summer tropospheric circulation on Ozone concentration levels over the Eastern Mediterranean Konstantinos Rizos et al.

2P4: Rainfall instensity change in Region of Murcia (Spain) David Espín et al.

12h30-13h30

4P1: WRF-LES long-term real case simulation during BLLAST campaign: strengths and weaknesses

Mireia Udina et al.

4P2: Impact of the initial soil moisture content over two distinct vegetation covers using the Regional Atmospheric Modeling System (RAMS) Igor Gómez et al.

4P3: Supercell predictability on Iberian Peninsula using WRF-ARW model Roberto Granda et al.

4P4: Role of moist and dry advection in the development of Mediterranean tropical-like cyclones (Medicanes)

Mario M. Miglietta et al.

13h30-14h30 BREAK

Numerical modelling (Chair: R. Romero)

What are the key elements to properly represent the surface and its processes in numerical models?

Patrick Le Moigne

| 15h00-15h15 | Land surface Interactions with the Atmosphere over the Iberian Semi-arid Environment (LIAISE): 1st modelling intercomparison Maria A. Jimenez et al. |
|-------------|--|
| 15h15-15h30 | Evaluating the role of initial conditions and boundary layer parameterizations in the simulation of extreme heat events in the Valencia coastal region Igor Gómez et al. |
| 15h30-15h45 | The Sensitivity of WRF Parameterizations on Lightning Events in Istanbul Ilayda Kurşun et al. |
| 15h45-16h00 | Development of combined statistical downscaling and machine learning models for the estimation of precipitation extremes Francesco Cioffi et al. |
| 16h00-16h15 | Lightning Potential Index performance in convection-permitting simulations of hail events in Croatia - sensitivity to microphysics and PBL schemes Barbara Malecic et al. |

27th MAY 2021

Numerical modelling (Chair: E. Tan, K. Horvath)

| 9h00-9h15 | Enhancement of orography-induced rainfall in presence of large-sized cloud condensation nuclei Enrique Pravia et al. |
|------------|---|
| 9h15-9h30 | Performance Testing on Wind Forecasts of WRF Model with Analysis Data in Turkey Yiğitalp Kara et al. |
| 9h30-9h45 | WRF simulation of the atmospheric conditions of the sightings of the Balearic mountain range from the central Catalan mountain range Jordi Mazon et al. |
| 9h45-10h00 | Testing mesoscale ensemble generation strategies: Application to Mediterranean high-impact weather forecasting Alejandro Hermoso et al. |

| 10600 10615 | Coastal risks induced by Mediterranean hurricanes |
|---------------|--|
| 101100-101113 | Coastal risks induced by Mediterranean hurricanes Tim Toomey et al. |

TRAM with Physics: A New Numerical Model Suited for All Kinds of Atmospheric 10h15-10h30 Applications
Romualdo Romero et al.

Romando Romero et ai

10h30-10h45 BREAK

Remote and in-situ measurements (Chair: R. Niclòs)

Invited talk. The potential of Copernicus data for near-real-time
10h45-11h15 monitoring of water and energy fluxes at continental, regional and local scales
Héctor Nieto

Necessity for high resolution LST in the Mediterranean Agroecosystems. Bridging 11h15-11h30 the gap by merging Sentinel-2 and Sentinel-3

Juan M. Sánchez et al.

Analysis of thermal disaggregation techniques: machine learning and deep 11h30-11h45 learning model comparison Federico Piñuela et al.

11h45-12h00 Buoy sea-air temperature observations in the Balearic Sea Agustí Jansà et al.

Analysing trends in the Mediterranean sea surface temperature retrieved from 12h00-12h15 Envisat-AATSR data
Ludovico Buizza et al.

POSTER PRESENTATIONS (Remote and in-situ measurements session)

3P1: A high resolution satellite-derived Sea Surface Temperature (SST) climatological database for the operation of a real-time weather forecast system Igor Gómez et al.

3P2: Evaluating the VIIRS land surface temperature operational product over a shrubland site using ground and sky sweeping measurements Lluís Pérez-Planells et al.

3P3: Accurate ground measurements to calibrate Landsat-8 TIRS data for land surface temperature retrieval

Raquel Niclòs et al.

3P4: Surface thermal heterogeneities in the eastern Ebro basin and their impact on regional circulations

Aina Torres et al.

3P5: Characterizations of wind and temperature profiles in Cerdanya Valley (Pyrenees) using a Windrass profiler

Josep R. Miró et al.

12h15-13h30

3P6: Evaluation of solar irradiance parameters retrieved from geostationary satellite data with ground measurements

Jesús Puchades et al.

3P7: Cloud cover retrieval with four different techniques in a coastal site in Spain Maria J. Marín et al.

3P8: Study of cloud cover at different heights from measurements of a ceilometer

Maria J. Marín et al.

3P9: Analysis of the ground level BC concentration at an urban coastal site in Valencia, Spain, and its relation to dominant air masses Violeta Matos et al.

3P10: First evaluations of satellite-based estimation techniques of PMx concentrations in the Valencia Region

Héctor Cruañes et al.

3P11: Remote sensing data analysis as support in convective fires: assessing the Haines Index

Maria J. Barberà et al.

13h30-14h30 BREAK

Remote and in-situ measurements (Chair: M. Udina)

14h30-14h45

Land surface Interactions with the Atmosphere over the Iberian Semi-arid Environment (LIAISE) Project: Field Campaign Update Aaron Boone et al.

An overview of the Analysis of Precipitation Processes in the Eastern Ebro

Subbasin (WISE-PreP) Project
Joan Bech et al.

Micro Rain Radar precipitation observations of cyclones Filomena and Hortense
Albert Garcia et al.

Wind channeling along the largest Pyrenean valley and its impacts on the surface thermodynamic parameters
Daniel Martínez-Villagrasa et al.

15h30-15h45 BREAK

Remote and in-situ measurements (Chair: J. Bech)

Towards an enhanced extreme-wind observation capability over the Mediterranean Marcos Portabella et al.

Comparison of cloud base height from ceilometer and radiosonde data in 16h00-16h15 Barcelona
Yolanda Sola et al.

Longwave Radiative Effect of the Cloud-Aerosol Transition Zone Based on CERES 16h15-16h30 Observations

Babak Jahani et al.

Improvement in Air Quality Index values on pandemics related lockdown days in 16h30-16h45 Istanbul Elçin Tan et al.

16h45-17h00 CLOSING

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