5th International Meeting on Meteorology and Climatology of the Mediterranean

Organized by Associació Catalana de Meteorologia (ACAM) and Network of Meteorology of the Mediterranean with support from Tethys, Journal of Mediterranean Meteorology & Climatology and Istanbul Technical University (ITU)

Programme

Istanbul, March 2nd-4th 2015

Monday, 2nd

8:30 : Conference Registration, light ice break

Session 0: Welcome

9:20-9:25 Dr. Jose Luis Palau, Chair of Conference, on behalf of the Organising Committee: Welcome and opening the 5th MetMed Conference
9:25-9:45 Prof. Selahattin Inciçek, Department of Meteorological Engineering, ITU: Climate Change in Mediterranean: Current, Future and Challenges
9:45-9:50 Prof. Ahmet Duran Sahin, Head of the Department of Meteorological Engineering, ITU: Welcome Talk
9:50-10:10 Mr. Ismail Belen, Vice General Manager, Republic of Turkey Ministry of Forestry and Water Affairs, General Directorate of Combating Desertification and Erosion: Natural Resource Management, International Cooperation Mechanisms and Opportunities related to Forestry and Combat Desertification in Mediterranean Region, and UNCCD COP12
10:10-10:30 Prof. Mehmet Karaca, Rector of ITU: Welcome Talk

Session 5: Wind energy

Chairmen: Dr. Zaridi, Dr. Codina and Dr. Tan

10:45-11:00 I. Odak, L. Delle Monache, K. Horvath, M. Hrastinski, A. Bajic: Wind Speed Ensemble Predictions With an Analog-Based Method in Complex Terrain
11:00-11:15 M. Davis, F. Doblas-Reyes, V. Terralba Fernandez, N. Gonzalez-Reviron, A. Pintó Biescas: Resilience: A Semi-Operational Prototype to Forecast Wind Power from Weeks to Months Ahead
11:15-11:30 G. Kırklı, Y. Ezber, T. Kaytancı: WRF’s wind power ensembles for a wind farm located in a coastal area of Turkey
11:45-12:00 E. Tan: Offshore Wind Energy Potential of Turkey

12:00 : Lunch

Session 4: Numerical modelling

Chairmen: Dr. Horvath, Dr. Teller and Dr. Palau

13:45-14:00 M. Telišman-Prtjenjak, I. Horvath, I. Tomaži, M. Kvačić, M. Viher, B. Grisogono: Impact of Mesoscale Meteorological Processes on Anomalous Propagation Conditions Over the Northern Adriatic Area
14:00-14:15 D. C. Carrió, V. Homar, U. Corsmeier: Impact of Kitcube Data on the Prediction of Maritime Convective Severe Weather. Test for HyMeX IOP13 Event
14:15-14:30 U. Tunucoglu: Development and Validation of a Regional Earth System Model (RegESM) for the Mediterranean Region

14:30 : Coffee Break - Poster attendance Block 5 & 4

15:40-15:55 M. Hrastinski, K. Horvath, I. Odak, S. Ivatek-Sahdan, A. Bajic: Does increasing the resolution
of Mesoscale Numerical Weather Prediction models enhance reproduction of wind regimes in the complex terrain?
15:55-16:10 L. Fita, P. Drobinskii, F. Hourdin, L. Fairhead: Regional results of the coupling of LMDZ physics in WRF

Tuesday, 3rd
Session 2: Processes and applications
Chairmen: Dr. Cuxart and Dr. Palau

8:30-8:50 Prof. Nuzhet Dalıes: Opening talk
9:05-9:20 B. Ahrens, A. Obermann: Mistral and Tramontane Patterns in Regional Climate Models
9:20-9:35 J. Cuxart, L. Conangla, M. Ponseti, I. Fernandez: The imbalance of the measured surface energy budget and an estimation of the latent heat flux
9:35-9:50 G. Duman, O. Yagci, E. Tan, E. Gorgun: The Quantification of The Relationship Between Hydraulic Geometry of Rivers in Western Anatolia and The Formative Discharges
9:50-10:05 J. L. Palau, F. Rovira: Spatio-Temporal Variability of Atmospheric Precipitable Water Vapor Accumulation over the Mediterranean Sea
10:05: Coffee break - Poster attendance block 2

11:45-12:00 P. Jiménez-Guerrero, J. P. Montávez, N. Ratola: Comprehensive Assessment of Atmospheric Benzo(α)Pyrene in the Mediterranean under Present and Climate Change Scenarios – A Field and Modelling Approach
12:00-12:15 L. Fita, E. Flamouas: FF: Water budget analysis on a set of severe cyclogenesis events in the Mediterranean basin

12:15 : Lunch

Session 3: Remote and in-situ measurements
Chairmen: Dr. Roujean, Dr. Caselles and Dr. Bech
13:15-13:30 B. Boudad, H. Sahbi, I. Manssouri: Using a Model Hybrid Based on ANM-MLP and the SPI Index for drought Prediction case of Inaouen Basin (Northern Morocco)
13:45-14:00 C. Birman, F. Karbou, J.-F. Mahfouf: Daily rainfall detection and estimation over land using microwave surface emissivities
14:45 : Coffee break and poster attendance block 3

15:45-16:00 D. Carrer, X. Ceamanos, J.-L. Roujean, B. Six, P. Nabat: AERUS-GEO: An advanced initiative for tracking operationally aerosol events over any surface targets (including the Mediterranean Basin) based on satellite MSG/SEVIRI observations
16:00-16:15 K. Lagouvardos, V. Kotroni, E. Galanaki, Th. Giannaros, A. Karogiannis, S. Kazadzis, E. Proestakis: Lightning studies in the frame of TALOS Project: Climatology, forecasting and nowcasting
16:15-16:30 V. García-Santos, Ll. Pérez, V. Caselles: Comparing Different Manners to Characterize the Atmosphere for Meteorological Applications

Wednesday, 4th
Session 1: Climatology
Chairmen: Dr. Guijarro, Dr. Fita and Dr. Calbó

8:30-8:50 Prof. Yurdanur S. Unal: Opening talk
8:50-9:05 D. Demirhan Barı: Long Term Analysis of Rainfall Characteristics Related to Erosion Risk in Turkey
9:05-9:20 P. Mahmoudi: Synoptic Anomalies Result-
ing in Pervasive Frosts in Iran

10:20: Coffee break and poster attendance block 1


11:45: Lunch

Session 6: Water cycle and climate change
Chairmen: Dr. Scavone and Dr. Tan

13:00-13:20 Prof. Izzet Ozturk: Probable Impacts of Climate Change on Water Potential of Turkey
13:20-13:35 N. Kutiladze, L. Megreldze, M. Shvangiradze: Changes in water cycle at recent past 60 year in Georgia
13:50-14:05 B. Onol: Analysis of Simulated Snow Variability During The 2013-2014 Drought over Turkey
14:05-14:20 Ali, R. M. Khan: A comparative analysis of climate change and impact on agriculture and food security and also practices for adaptation and mitigating climate change, The Cases and Asian Countries

14:35: Coffee break and poster attendance block 6

16:05-16:20 A. Bouanani, K. Baba-Hamed, R. Bouanani: Impact of Climate Variability on Contributions to Dam Watershed of Tafna (NW of Algeria)
16:20-16:35 O. L. Sen, O. M. Gokturk, D. Bozkurt: Climate Change and its Impacts on Water Resources in Turkey

End of conference

List of posters
Session 5: Wind energy
P5.1 A. M. Palomares, M. Espino, J. Navarro, M. Grifoll, P.A. Jimenez, E. Pallares: Application of a Wind-Wave-Coupled Model in the NW Zone of the Mediterranean Sea, next to the Catalan Coast
P5.3 I. Priedite: Economic assessment of CO₂ emission reduction in Latvia when part of CHP generated electricity is replaced by small scale wind turbines generated electricity

Session 4: Numerical modelling
P4.1 N. Ata Tütkun, G. Ozel: A Probabilistic Risk Assessment of Time to Rainfall of Turkey: a Censoring Approach
P4.2 D. C. Carrió, V. Homar: Potential of Ensemble Data Assimilation Methods to Forecast Severe Convection Phenomena Over the Sea
P4.3 T. Vila, J. M. Redondo, J. Diez, M. A. Sanchez: SAR Observations of Convective Flows in the Coastal Region of the NW Mediterranean
P4.4 N. Goktepe, E. Yilmaz, F. M. Sayinta, E. Tan: Verification of the WRF Model Wind Speed Forecasts for the Western Coastline of Turkey
P4.5 K. Horvath, D. Koracin, C. Smith, R. Vellore, R. Belu: Sub-Kilometer Dynamical Downscaling of Near-Surface Wind Profiles in Complex Terrain
P4.6 I. Tegoulias, Th. Karacostas, I. Pytharoulis, S. Kotsopoulos, S. Kartsios, D. Bampzelis: Using object based methods to verify weather predictions
P4.8 T. M. Giannaros, D. Melas, I. Ziomas: Evaluation of the Performance of a Mesoscale Modeling System for Wind Resource Assessment
Session 2: Processes and applications

P2.1 A. Sanchez-Romero, J. Calbó, J.-A. González, A. Sanchez-Lorenzo: Retrieval of aerosol optical properties from a multi-filter rotating shadowband radiometer over Girona, NE Spain

P2.2 F. Pastor, J. A. Valiente: Heat waves prediction system in a Mediterranean area (Valencia Region)

P2.3 G. A. Giorgio, M. Ragosta, G. Scavone, V. Telesca: Meteor-Climatic Analysis at Local Scale by Means of a Multivariate Statistical Procedure

P2.4 M. A. Jiménez, R. Beltran, A. Traveset, N. Martí: Effect of Environmental Conditions on the Deposits of Seagrass Litter in two Contrasting Beaches of Mallorca Island


P2.6 L. Marotta, E. Tan, V. Telesca: A stochastic generation of daily precipitation in Turkey

P2.7 B. Matjacic, J. Cuxart: Mesoscale cold pool flow organization in the Pannonian basin

P2.8 D. Serrano, M. J. Marín, M. P. Utrillas, M. Nuñez, J. L. Gómez-Amo, J. A. Martínez-Lozano: Inference cloud optical depth of broken clouds

P2.9 B. Martí, D. Martínez-Villagrasa, J. Cuxart: An Experimental Evolution of the Fine Structure of the Temperature Profile 2m above the Surface

P2.10 L. Laiti, L. Giovanniini, D. Zardi: Solar resource assessment in complex orography: a comparison of available datasets for the Trentino region

P2.11 E. Mantilla, F. Pastor, J. A. Valiente, J. L. Palau, J. J. Diéguez: Experimental Characterization of the Spatial Distribution of NO₂ Urban Pollution

Session 3: Remote and in-situ measurements

P3.1 J. M. Sánchez, R. López-Urrea, C. Doña, D. Caselles, V. Caselles, A. Montoro, L. Martínez: Comparison Between Micrometeorological Techniques and Lysimeter Measurements in a Mediterranean Vineyard

P3.2 D. Haddouche, K. Mederbal, N. Bellahcene Zekri: Characterization of the precipitation variation and its impact on landscapes changing in Algeria

P3.3 J.-L. Roujean, D. Carrer, R. Lacaize, B. Smets: Development of a surface albedo product from PROBA-V at the nominal resolution of 333M: method and preliminary validation around the Mediterranean basin


P3.6 C. Corbari, M. Mancini, V. Telesca: Satellite Land Surface Temperature and Ground Data for the Calibration of a Distributed Energy Water Balance Model


P3.8 J. Lorente, Y. Sola, J. Bech, A. Óssó: Cloud and Aerosol Effects upon Surface Solar UV Irradiance in Barcelona

Session 1: Climatology

P1.1 A. N. Yücekutlu: Interaction with climate and ecosystem of Saharan dust dynamics

P1.2 K. Zaninovic: Implications of Climate Change to Croatian Tourism


P1.6 A. Amengual, J. Cuxart, J. Vallespir: Impact of climate change on several wine-growing regions of Spain

P1.7 K. Baba-Hamed, A. Bouanani, F. Saouli, S. Belbachir: Use of Statistical Methods for Spatialization of Climatic Parameters in Algeria

P1.8 M. Alarcón, A. J. Mohammed: Analysis of the Occurrence of Extreme Temperatures in the Iberian Peninsula in a Recent 20-Years Period

P1.9 A. Al-Nassar, P. Sangrà, M. Alarcón, A. Jansà, C. Ramis: The flood event that affected Iraq on November 2013: a synoptic approach

P1.10 S. I. Bilgen, C. Yürük, N. Göktepe, E. Tan, Y. S. Ünal, and S. S. Mentes: Investigation on Heatwaves over Turkey and Leading Atmospheric Patterns

P1.11 C. Yürrük, S. Bilgen, Y. S. Ünal, S. Incecik: Interannual Variations of Precipitation and Temperature Observations in Turkey

P1.12 A. M. S. Delitala: The Regional Climatological Network of Saninia

P1.13 N. Pineda, X. Soler: The Influence of the Mediterranean Sea on the Annual Lightning Distribution in Catalonia
Session 6: Water cycle and climate change

P6.1 M. Gajic-Capkic, K. Cindric, I. Guttler, C. Brankovic: Climate and Climate Change Analysis in the Lower Neretva River Basin, Croatia

P6.2 L. Marotta, V. Telesca, F. Cioffi, U. Lall: Assessment of climate change scenarios for Agro-Pontino plain through a Non-homogeneous Hidden Markov Model

P6.3 M. Meskine, O. Ouardi, A. Kaarour: A preliminary Study of the Infrared Spectrum of $^{34}$SF$_6$ ($\nu_4$ and $\nu_2 + \nu_4$ combination band)

P6.4 O. Karakus, E. Tan: Climate Change Effect on Snow-Cover Duration in Turkey

P6.5 E. Tan: Variability in Moisture Flux Convergence Rates on Turkey

P6.6 S. Khelifa, A. Rami: Mediterranean sea level variability derived by multiresolution wavelet analysis