

Numerical Weather Prediction in Portugal 2021
Universidade de Évora, 11-12 November 2021

Provisional program

Thursday, 11th November 2021 Sala 131 (Anfiteatro) do Colégio do Espírito Santo	
10h00 – 10h45 REGISTRATION	
10h45 – 11h00 OPENING (Presential & Zoom) <i>Vice-Rector of Universidade de Évora</i> <i>Director of Escola de Ciências e Tecnologia, Universidade de Évora</i> <i>IPMA's representative</i>	
11h00 – 15h15 Session 01 – Surface-atmosphere interaction & modelling <i>Chair (Morning): Rui Salgado & Rita Cardoso</i> <i>Chair (Afternoon): Flavio Couto & João Martins</i>	
<i>Time</i>	<i>Speaker</i>
11h00 – 11h45	INVITED SPEAKER Clément Albergel (Zoom) <i>ESA Climate Office</i>
11h45 – 12h00	Alqueva lake impact on a regional climate: a typical meteorological study Maksim Iakunin <i>Forschungszentrum Juelich, IBG-3</i>
12h00 – 12h15	Improvement of Meso-NH solar radiation simulations with Artificial Neural Networks Sara Pereira <i>Universidade de Évora</i>
12h15 – 12h30	Hail climatology in Portugal and some insights into the regional dynamical drivers João Santos (Zoom) <i>UTAD</i>
12h30 - 14h00	Lunch
14h00 – 14h15	Land-atmosphere coupling during extreme heat events in the LUCAS experiment Rita Cardoso <i>Instituto Dom Luiz (IDL), FCUL</i>
14h15 – 14h30	Response of the surface climate to different land surface models: WRF sensitivity to groundwater options Daniela Lima <i>Instituto Dom Luiz (IDL), FCUL</i>
14h30 – 14h45	On the added value of the EURO-CORDEX multi-model ensemble simulations over the Iberian Peninsula João Careto <i>Instituto Dom Luiz (IDL), FCUL</i>
14h45 – 15h00	Assessing marine climate change in the North Atlantic Mariana Bernardino <i>IST/CENTEC</i>
15h00 – 15h15	Modeling the Iberian Current System Ana Machado <i>IPMA, IDL</i>
16h30 – 17h45 Session 02 – Surface Observations applications <i>Chair: Rita Cardoso & Flavio Couto</i>	
15h15 – 15h30	Uncertainty in different precipitation products in the case of two atmospheric river events Alexandre Ramos <i>Instituto Dom Luiz (IDL), FCUL</i>
15h30 – 15h45	Applications of remotely sensed Land Surface Temperature Products João Paulo Martins <i>IPMA</i>
15h45 – 16h00	A Google earth Engine application to retrieve high resolution Land Surface Temperature from Landsat imagery

	Sofia Ermida IPMA
16h00 – 16h30	Coffee Break/ Posters Session
16h30 – 16h45	Local AROME surface Data Assimilation: status and plans Maria José Monteiro IPMA, IST/CENTEC
16h45-17h00	On the convergence of reanalysis produced by different data assimilation streams: a case study with NASA-GMAO MERRA-2 reanalysis system David Carvalho Universidade de Aveiro
17h00 – 17h45	INVITED SPEAKER Tânia Casal (Presential) ESA/ESTEC
17h45 – 18h30	Roundtable: General discussion & recommendations about the day's sessions Chair: Mariana Bernardino & David Carvalho
20h00	Social Dinner

Friday, 12th November 2021 HOTEL DOM FERNANDO - Sala de Reunião Diana 1	
09h15 – 10h45 Session 03 – Land modelling Chair: João Martins & Rui Salgado	
09h15 – 10h00	INVITED SPEAKER Gianpaolo Balsamo (Zoom) ECMWF
10h00 – 10h15	Serão os ciclones de origem tropical um risco para Portugal Continental? Tiago Ferreira FCUL
10h15 – 10h30	Monitoring and forecasting the regional water cycle with the Terrestrial Systems Modelling Platform (TSMP): Overview and first evaluation results Maksim Iakunin Forschungszentrum Juelich, IBG-3
10h30 – 10h45	Revising ECMWF land cover and vegetation: impact in offline and coupled atmosphere simulation Emanuel Dutra IPMA
10h45 – 11h15	Coffee Break
11h15 – 12h15 Session 04 – Physiographic effects & wildfire behaviour Chair: David Carvalho & Maria José Monteiro	
11h15 – 11h30	The role of orography and SST on shaping coastal surface wind, in the Canary upwelling ecosystem José Alves OOM – IDL
11h30 – 11h45	Estudo de eventos meteorológicos extremos com base na modelação da atmosfera e das suas interações com a superfície Rui Salgado Universidade de Évora
11h45 – 12h00	Estudo das condições atmosféricas associadas a incêndios florestais na Ilha da Madeira Flavio Couto Universidade de Évora
12h00 – 12h15	Modelação atmosférica associada a um incêndio florestal: caso de estudo de Vila de Rei Ana Purificação Universidade de Évora
12h15 – 13h30	Lunch Break
13h30 – 15h15 Session 05 – Urban effects & Air quality	

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13h30 – 14h15	INVITED SPEAKER Patrick Samuelsson (Zoom) ACCORD Surface Aea Leader, SHMI
14h15 – 14h30	Forecasting atmospheric pollutants over Portugal Carla Gama Universidade de Aveiro
14h30 – 14h45	Study of Urban Heat Islands Using Different Urban Canopy Models and Identification Methods Rui Pedro Simões da Silva Universidade de Aveiro
14h45 – 15h00	AI for metropolitan scale urban climate: an approach for predicting sub-kilometric near-surface air temperature Ana Oliveira CoLAB +ATLANTIC
15h00 - 15h15	Urban Heat Islands: Importance of temporal dimension and rural land cover Alexandra Hurduc Instituto Dom Luiz (IDL), FCUL
15h15 – 16h15	Roundtable: The Numerical Weather Prediction in Portugal: Surface-Atmosphere Interactions. Recommendations; Improvement of operational services; Future Collaborations Chair: Rui Salgado & João Martins

POSTER

Author	Presentation
Isildo Gomes	Precipitable Water Vapor Derived from GNSS data in Angola.
Ipalibo Bala	Precipitable Water Vapor Derived from GNSS data in Nigeria.
Armando Luchato	Precipitable Water Vapor Derived from GNSS data in Mozambique.
Raquel Santos	Interação oceano-atmosfera - Análise de eventos extremos conjuntos
Sandra Plecha	Existem ondas de calor marinhas na ZEE de Portugal?
Ediclê Duarte	Modeling and assimilation of atmospheric aerosols over são paulo - Brazil with the regional chemistry transport eurad-inverse model on high-resolution.
Sara Caetano	Influência do acoplamento terra-atmosfera durante a onda de calor do verão de 2015
Carlos Pereira	The influence of the East African Rift Valley low-level jets on rainfall over SW Africa