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

Program

Thursday, 11th November 2021 Sala 124 (sala de conferências) do Colégio do Espírito Santo
10h00 – 10h45 **REGISTRATION**
10h45 – 11h00 **OPENING (Presential & Zoom)** *Vice-Rector of Universidade de Évora* *Director of Escola de Ciências e Tecnologia, Universidade de Évora* *IPMA's Director*
11h00 – 15h15 ***Session 01 – Surface-atmosphere interaction & modelling*** *Chair (Morning): Rui Salgado & Rita Cardoso* *Chair (Afternoon): Flavio Couto & João Martins*

Time	Speaker
11h00 – 11h45	**INVITED SPEAKER** **Clément Albergel (Zoom)** *ESA Climate Office*
11h45 – 12h00	Alqueva lake impact on a regional climate: a typical meteorological study **Maksim Iakunin** *Forschungszentrum Juelich, IBG-3*
12h00 – 12h15	Serão os ciclones de origem tropical um risco para Portugal Continental? **Tiago Ferreira** *FCUL*
12h15 – 12h30	Hail climatology in Portugal and some insights into the regional dynamical drivers **João Santos (Zoom)** *UTAD*
12h30 - 12h45	Land-atmosphere coupling during extreme heat events in the LUCAS experiment **Rita Cardoso** *Instituto Dom Luiz (IDL), FCUL*
12h45 - 14h15	**Lunch**
14h15 – 14h30	Response of the surface climate to different land surface models: WRF sensitivity to groundwater options **Daniela Lima** *Instituto Dom Luiz (IDL), FCUL*
14h30 – 14h45	On the added value of the EURO-CORDEX multi-model ensemble simulations over the Iberian Peninsula **João Careto** *Instituto Dom Luiz (IDL), FCUL*
14h45 – 15h00	Assessing marine climate change in the North Atlantic **Mariana Bernardino** *IST/CENTEC*
15h00 – 15h15	Modeling the Iberian Current System **Ana Machado** *IPMA, IDL*
15h15 – 17h45 ***Session 02 – Surface Observations applications*** *Chair: Rita Cardoso & Flavio Couto*	
15h15 – 15h30	Uncertainty in different precipitation products in the case of two atmospheric river events **Alexandre Ramos** *Instituto Dom Luiz (IDL), FCUL*
15h30 – 15h45	Applications of remotely sensed Land Surface Temperature Products **João Paulo Martins** *IPMA*

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*
18h30 – 20h00	**Évora City Tour**
20h00	**Social Dinner**

Friday, 12th November 2021 **Sala 124 (sala de conferências) do Colégio do Espírito Santo**	
09h15 – 10h45 ***Session 03 – Land modelling*** *Chair: João Martins & Rui Salgado*	
09h15 – 10h00	**INVITED SPEAKER** **Gianpaolo Balsamo (Zoom)** *ECMWF*
10h00 – 10h15	Improvement of Meso-NH solar radiation simulations with Artificial Neural Networks **Sara Pereira** *Universidade de Évora*
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
Chair: Maria José Monteiro & Flavio Couto

13h30 – 14h15	**INVITED SPEAKER** **Patrick Samuelsson (Zoom)** *ACCORD Surface Area 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