

International Conference on Ecohydrology and Climate Change



Parallel Session Program

September 10th

PS 01 – Water Resources and Management

Room O105	Convenor: Uwe Ulbrich	Author
11:00 – 11:15	Optimal operation policies for a reservoir system in Multipurpose Alqueva Project (MAP)	Deepti Rani
11:15 – 11:30	Predicting Olive Orchard Transpiration and crop Coefficients with Vegetation Indices (VI'os) and Air Temperature	Francisco Santos
11:30 – 11:45	Impact of climate change on groundwater resources in Northwestern Germany	Petra Kuhr
11:45 – 12:00	Monthly Streamflow Synthetic Generation. Design of Water Resources Systems	Rita Guimarães
12:00 – 12:15	Evaluation of two physically based spatially distributed hydrological models. A case study in Central Portugal	Sandra Mourato
12:15 – 12:30	Assessing and managing the impact of climate change on coastal groundwater resources and dependent ecosystems: the CLIMWAT project	Tibor Stigter

PS02 – Remote Sensing and Geostatistics

Room O104	Convenors: Elsa Sampaio and Solange Leite	Author
11:00 – 11:15	Variability of the temperature time series recorded in Southern Portugal	Ana Martelo
11:15 – 11:30	Forest soil short term response to prescribed fire: an aproach by Principal Components Analysis	Ana Meira Castro
11:30 – 11.45	The Role of Vegetation on the Regime of Summer Wildfires in Portugal	Carlos da Camara
11:45 – 12:00	Evolution of LSA SAF vegetation products over Portugal	Lourdes Bugalho
12:00 – 12:15	Urban hydrology using weather radar: flood events in small basins in tropical Brazil	Mauricio de Agostinho Antonio

PS03 – Extreme Events

Room O104	Convenor: João Andrade Santos	Author
14:00 – 14:15	The diagnosis of large-scale atmospheric anomalies by the Empirical Forcing Function: A case study	Cristina Andrade
14:15 – 14:30	Simulation of the water budget of a Central European watershed by a regional climate model	Frank Kalinka
14:30 – 14:45	Links between Mediterranean storminess and large-scale atmospheric circulation in reanalysis data	Gregor Leckebush
14:45 – 15:00	Unusual Snow Events in Portugal (2008/2009)	Margarida Belo
15:00 – 15:15	Analysis and Monitorization of droughts in Mainland Portugal	Vanda Cabrinha Pires

PS04 – Ecohydrology I

Room O105	Convenor: João Pedro Nunes	Author
14:00 – 14:15	Assessment of environmental quality status of a southern European estuary through measurement of mercury in water, sediments and biota	Ana Lillebo
14:15 – 14:30	Combined effects of binary combinations of cadmium, carbendazim and ultraviolet radiation to <i>Daphnia magna</i>	Fabianne Ribeiro
14:30 – 14:45	A Generalized Water Yield Model for Mediterranean Watersheds using Precipitation and Temperature	Francisco Santos
14:45 – 15:00	The Ecohydrology interplay between biota and hydrology for the sustainable ecologic functioning of Guadiana estuary and coastal area (south Portugal)	Luis Chicharo
15:00 – 15:15	Ecological Assessment of the Nabão River Hydrologic Network by means of Macroinvertebrate Biomonitoring	Luis Santos

September 11th

PS 05 - Soil degradation and Soil quality

Room O105	Convenor: Elsa Sampaio	Author
09:45 – 10:00	Panarchy: erosion and the dynamic interactions of plants with their surroundings	Anton Imeson
10:00 – 10:15	Fire Impact on Soil Hydrological Properties and Soil Erosion: The effects of Geology, Fire type and Severity	Ferreira Carla
10:15 – 10:30	Influence of Different Organic Resources on Crop Yield and Soil Fertility in the Moldavian Plateau	Gerard Jitareanu
10:30 – 10:45	Simulating the impacts of climate change on hydrological and erosion processes in Mediterranean watersheds	João Pedro Nunes

**PS06 – Environmental Policies and Social Impacts
and Operational and Dynamical Hydrology**

Room O104	Convenors: Winfried Blum and Chris Kilsby	Author
09:45 – 10:00	The effect of sediments and soils PO ₄ -P sorption capacity on estuarine cultural eutrophication: the Mondego estuary (Portugal) as a case study	Ana Isabel Lillebo
10:00 – 10:15	Social networks and spatial models of Human pressure on the water resources	Luis Rodrigues
10:15 – 10:30	Low-cost Continuous Turbidity Meter/recorder for Suspended Sediment Monitoring in Mountain Streams	Leonardo Gonçalves
10:30 – 10:45	Salt marshes and mercury pollution	Mónica Válega
10:45 – 11:00	Hydrological Events in Urban Sprawl Areas: Experimental Study of Ribeira dos Covões Catchment	Carla Ferreira

PS07 – Ecohydrology II

Room O105	Convenor: Serge Rambal	Author
14:00 – 14:15	Hydrometeorology and heat balance in a shallow wetland: contribution of field data and remote sensing to the understanding of Doñana marshes.	Anais Ramos
14:15 – 14:30	Influence of <i>Phragmites australis</i> on stability of horizontal subsurface-flow constructed wetlands	Antonio Albuquerque
14:30 – 14:45	Effect of transient hydraulic loading rate on the removal efficiency of horizontal subsurface-flow constructed wetlands	Antonio Albuquerque
14:45 – 15:00	Modelling the influence of extreme meteorological event in the ecological states of a temperate lagoon	José Fortes Lopes
15:00 – 15:15	Potential effects of climate change on exotic ponderosa pine plantations and native cordilleran cypress in northwestern Patagonia, Argentina	Julian Licata
15:15 – 15:30	Scaling up the spatial and temporal water use patterns of a young cork-oak tree (<i>Quercus suber</i> L.) plantation under a Mediterranean environment	Júlio C. Lima

September 12th

PS08 – Soil functions and Land use

Room O105	Convenor: José Luis Rubio	Author
09:00 – 09:15	Climate Change and the Need for Soil Moisture Stress Mitigation in the Arid and Semi Arid Savanna of Nigeria	A.C. Odunze
09:15 – 09:30	Carbon and nitrogen cycling in <i>Spartina maritima</i> salt marshes: its contribution to reduce atmospheric CO ₂ and reduce eutrophication process	Ana I. Sousa
09:30 – 09:45	Relationship between cork oak growth patterns and woodlands landscape features in Southern Portugal	Augusta Costa
09:45 – 10:00	The role of topography in controlling the hydro-ecological soil functions at the forest-grass edges on steep slopes: Tijuca Massif, Rio de Janeiro, Brazil	Maria Accioly Dias
10:00 – 10:15	Preliminary analysis of climate and land use change impacts on sediment yield in a semi-arid region of southern Portugal	Rong Zhang
10:15 – 10:30	Soil quality criteria for potentially toxic elements in Portuguese soils in relation to impacts on crops quality and human health effects	Sonia Rodrigues

PS09 – Climate Change

Room O104	Convenor: Gregor Leckebush	Author
09:00 – 09:15	Climate Change Scenarios: Potential Impacts on Mediterranean Landscapes	Ana Paulo
09:15 – 09:30	Climate change impact scenarios for the Guadiana transboundary river basin	Dirk De Ketelaere
09:30 – 09:45	Trends in hydrologic time series and the climate change. Some of the Portuguese experience	Maria Manuela Portela
09:45 – 10:00	Climate Change Inferred from Analysis of Borehole Temperatures: Joint Temporal Modes of Recorded Surface Air Temperature and Reconstructed Ground Surface Temperature Variability	Solange Mendonça Leite
10:00 – 10:15	The impact of climate change scenarios on Pinus and Quercus mixed stands in the district of Vila Real.	Mónica Alexandra Rodrigues
10:15 – 10:30	Cyclic Variation of Holocene Climate in the South-Western Iberia	Solange Mendonça Leite