

Global change impacts (7) / 8:30-8:55

Lionel Jarlan, CESBIO, Toulouse, France

D94 | Climate change impacts on water resources in North African basins

Yves Tramblay, Denis Ruelland, Lahoucine Hanich, Zoubeida Bargaoui, and Hammouda Dakhlaoui

D95 | Future changes in hydrological extremes of a Mediterranean catchment: what can we say in an uncertainty context?

Lila Collet, Thibault Lemaitre-Basset, Guillaume Thirel, Juraj Parajka, Guillaume Evin, and Benoît Hingray

D108 | Streamflow Changes in the Duero River Basin using an Ensemble of Euro-CORDEX Projections

Patricio Yeste, Juan José Rosa-Cánovas, Emilio Romero-Jiménez, Matilde García-Valdecasas-Ojeda, Sonia Raquel Gámiz-Fortis, Yolanda Castro-Díez, and María Jesús Esteban-Parra

D111 | Precipitation trends and ruptures effect on catchment hydrology and water resources availability for agricultural lands under climate change

Youness Hrou, Zahra Thomas, Ophélie Fovet, Pauline Rousseau-Gueutin, Pascal Pichelin, and Karima Sebari

D120 | Impact of climate change in Mediterranean river basins: relation between droughts, vegetation and reduction of water discharge

Camille Labrousse, Wolfgang Ludwig, Guillaume Lacquement, and Mahrez Sadaoui

D121 | Building quantitative scenarios of irrigation under climatic and anthropogenic changes in the mediterranean area: application to Morocco

Fakir Younes, Le Page Michel, Jarlan Lionel, Boone Aaron, Berjamy Brahim, and Molle François

D117 | Changes of hydrological regime in the mountain catchments of the Crimean Peninsula

Anastasiia Zemlianskova, Olga Makarieva, Nataliia Nesterova, and Danil Arkhipov

Water production (8) / 8:55-9:25

Maria-José Polo, University of Cordoba, Spain

D102 | A first look at ERA5 for physically based water balance modelling of the Devoll Catchment, Albania

María Herminia Pesci, Fenja Voges, Nils Rüther, and Kristian Förster

D110 | Assessment of hydrological flows in the Po river basin in connection with the underground aquifer

Flavia Fuso, Chiara Righetti, Maurizio Gorla, Oliva Desdemona, and Daniele Bocchiola

D116 | Gradual transition from temperature to precipitation controlled regime in Rhone River discharges

Carla Taricco, Sara Rubinetti, Enrico Arnone, Davide Zanchettin, Angelo Rubino, and Ilaria Bizzarri

D118 | Driving factors of non-linearity rainfall-runoff relationships at different time scales in small Mediterranean-climate catchments

Josep Fortesa, Jérôme Latron, Julián García-Comendador, Miquel Tomàs-Burguera, Jaume Company, Aleix Calsamiglia, and Joan Estrany

D107 | The influence of large-scale circulation patterns and boundary layer conditions on precipitation formation in Corsica

Isabel Knerr, Katja Trachte, Emilie Garel, Frédéric Huneau, Sébastien Santoni, and Jörg Bendix

D106 | Spatialization of meteorological variables over south mediterranean catchments. Case of the Tensift (Morocco).

Ahmed Moucha, Lahoucine Hanich, Simon Gascoin, and Lionel Jarlan

D96 | Anthropogenically-induced recharge in a semiarid mountain front context

Houssne Bouimouass, Younes Fakir, Sarah Tweed, and Marc Leblanc

D104 | Surface Water Management and Modelling in the Sakia El Hamra Hydraulic Basin (Southern Morocco)

Nafia El-alaouy, Aicha Moumni, Badr-eddine Sebbar, Abdeljalil Gouzrou, and Aberrahman Lahrouni

Eco-Agrosystems production and water use (7) / 9:25-9:50

Saïd Khabba, Cadi Ayyad University, Marrakech, Morocco

D97 | The impact of climate change decrease of winter precipitation on the water use efficiency and sustainability of a Mediterranean forest.

Serena Sirigu, Roberto Corona, Nicola Montaldo, Ram Oren, and Dora Soru

D98 | OMERE: A Long-Term Observatory of Soil and Water Resources, in Interaction with Agricultural and Land Management in Mediterranean Hilly Catchments

Jérôme Molénat, Damien Raclot, Rim Zitouna, Jean Albergel, and Marc Voltz and the OMERE Team

D101 | Simple and spatialize approach to optimize irrigation water and wheat yield in the semi-arid areas

Said Khabba, Jihad Toumi, Salah Er-Raki, Jamal Ezzahar, Michel Le Page, Abdelghani Chehbouni, and Lionel Jarlan

D105 | Agriculture in Southern Mediterranean areas under climate change: Impacts on irrigated wheat grain yield and irrigation requirements

Bouras EL houssaine, Jarlan Lionel, Khabba Said, Er-Raki Salah, Dezetter Alain, Sghir Fathallah, and Yves Trambly

D119 | Linking hydrological response to forest dynamics in Mediterranean areas: a new experimental catchment in the Apennine Mountains, Tuscany, Italy

Daniele Penna, Marco Borga, Elena Bresci, Giulio Castelli, Pietro Castellucci, Claudia Coccozza, Alessandro Errico, Ginevra Fabiani, Laurent Gourdol, Julian Klaus, Francesca Sofia Manca di Villahermosa, Laurent Pfister, Federico Preti, Cyrille Tailliez, Paolo Trucchi, Matteo Verdone, and Giulia Zuecco

D103 | Yearly land cover mapping between 1984 and 2018 in the Haouz plain (Marrakech, Morocco) using robust decision trees approaches.

Vincent Simonneaux, Paul Baby, and Mohamed Hakim Kharrou

D122 | Assessing soil moisture constraint on soil evaporation and plant transpiration fractioning

Bouchra Ait Hssaine, Olivier Merlin, Jamal Ezzahar, Salah Er-raki, Saïd Khabba, and Abdelghani Chehbouni

Remote Sensing (7) / 9:50-10:15

Mehrez Zribi, CESBIO, Toulouse, France

D99 | Water management and climate change monitoring in Tunisia and Egypt using remote sensing techniques

Simonetta Paloscia, Giacomo Fontanelli, Simone Pettinato, Emanuele Santi, Giuliano Ramat, Emmanuel Da Ponte, Magdy Abdel-Wahab, Yassmina Hesham, Mohamed Ouessar, Hanen Dhaou, Zeineb Kassouk, and Zohra Lili Chabane

D100 | Mapping surface soil moisture over wheat crops in southern Mediterranean regions using the backscattering coefficient and the interferometric coherence derived from Sentinel-1

Nadia Ouaadi, Lionel Jarlan, Jamal Ezzahar, Saïd Khabba, Mehrez Zribi, Elhoussaine Bouras, Safa Bousbih, and Pierre-Louis Frison

D109 | Evaluation of the potential of Sentinel-1 and Sentinel-1 data for clay content mapping

Safa Bousbih, Mehrez Zribi, Zohra Lili-Chabaane, Nicolas Baghdadi, Azza Gorrab, and Nadhira Ben Aissa

D112 | C band radar crops monitoring at high temporal frequency: first results of the MOCTAR campaign

Pierre-Louis Frison, Adnane Chakir, Jamal Ezzahar, Pascal Fanise, Ludovic Villard, Nadia Ouaadi, Khaba Said, Mehrez Zribi, Valerie Le Dantec, Mohamed Kasbani, Salah Erraki, and Lionel Jarlan

D113 | On the use of different approaches based on photochemical reflectance index and surface temperature to monitor the water status of winter wheat in semi-arid regions

Zoubair Rafi, Valérie Le Dantec, Olivier Merlin, Said Khabba, Patrick Mordelet, and Salah Er Raki

D114 | Detection of irrigation events on maize plots using sentinel-1 soil moisture products

Michel Le Page, Lionel Jarlan, Aaron Boone, Mohammad El Hajj, Nicolas Baghdadi, and Mehrez Zribi

D115 | Modified Shuttleworth-Wallace model for monitoring evapotranspiration over complex surface: Relationship between the surface resistances and remotely sensed stress indexes

Jamal Elfarkh, Salah Er-Raki, Jamal Ezzahar, Abdelghani Chehbouni, Bouchra Aithssaine, Abdelhakim Amazirh, Said Khabba, and Lionel Jarlan