International Conference on

DROUGHT: Research and Science-Policy Interfacing

The DROUGHT-R&SPI project conference

March, 10th – 13th, 2015 Valencia, Spain

CALL FOR ABSTRACTS













Rationale of the Conference

Among natural hazards, droughts are singular in many ways (e.g.: slow onset, difficult to recognize, non structural impacts). Moreover, droughts occur in arid and semiarid areas of the world, but also in humid areas, and can develop over short periods (weeks or months) or longer periods (seasons, years or even decades). They are complex large-scale phenomena involving numerous interacting climate processes and various land-atmosphere feedbacks. In addition, hydrological processes in river basins lead to a complicated propagation of the climate signal into the water system. Although progress is made, the phenomena are still not well understood, which makes it difficult to adequately characterize, monitor, forecast and manage drought.

Usually, droughts do not directly cause fatalities, but they have large socio-economic and environmental impacts affecting many sectors, and, depending on the regions, be triggering water and food related diseases and casualties. Large portions of USA, México, Brazil, Russia, China, India, Central Asia, South Africa, Great Horn of Africa, or Australia, are affected by drought. So globally, they affect more regions and more people than other natural hazards.

In Europe, these multi-facetted impacts happen both in water-stressed areas of Southern EU Member States, but also in countries where water availability has never before been a major concern. Over the last 25 years, droughts have occurred that have covered more than 800,000 km² of EU territory (37%) and that had an effect on more than 100 million people (20%). The total cost of droughts over the past 30 years amounts to more than 100 billion Euros.

As in other regions of the world, climate change projections for some areas of Europe indicate that droughts are likely to become more frequent and more severe due to the increased likelihood of warmer Northern winters and hotter Mediterranean summers, together with decreases in precipitation and increases in evaporation and transpiration. Hence, there is an urgent need to improve drought preparedness through measures that reduce vulnerability to drought and the risks they pose, in particular considering the uncertain future.

The DROUGHT conference

The International Conference on Drought Research and Science-Policy Interfacing is the final event of the EC-funded project DROUGHT-R&SPI. The event aims to discuss drought related research and the advances on response policies in order to foster the development of Drought Policies and Plans to reduce risk and vulnerability, and to enhance preparedness and resiliency. Specific objectives of the conference are to:

- Introduce the results of the DROUGHT-R&SPI project
- Give the floor to contributions that deal with the three drought aspects: identification, assessment and policies
- Integrate those aspects focusing on (i) the development of drought research, and (ii) policy implementation.

Conference Topics

DROUGHT-R&SPI addresses drought identification and characterization, drought assessment (impacts) and drought policies to develop drought management plans at different scales (river basin, national and international).

This conference will serve as a forum for discussion among scientists working on drought, stakeholders, water managers, experts and representatives of authorities on experiences, about the needs and challenges for drought management. Particularly, the conference will address the topics of:

- Drought identification and characterization
- Drought indicators, monitoring and forecasting, and early warning systems
- Assessment of past and future drought impacts
- Drought risk and vulnerability perception and assessment
- Water management and governance under drought conditions
- Drought preparedness and mitigation strategies
- Development and implementation of Drought Policies and Plans from the local to the regional, national and international levels.
- Research and Science Interfaces with Drought Policies

Conference programme

This three days conference will include an opening session, a closing session and three consecutive thematic sessions which focus on three main drought issues:

(1) Past, present and future of droughts; (2) Drought indicators, monitoring and forecasting; (3) Drought preparedness and mitigation options.

The fourth day will be devoted to a technical visit to infrastructures and environmental spots of the Jucar and Turia basins.

On Wednesday 11 March, a special session will be devoted to the **4th pan-European Drought Dialogue Forum**.

The DROUGHT-R&SPI project

Drought is a natural hazard that has hit Europe hard over the last decades. Likely it will become more frequent and more severe due to the increased likelihood of warmer northern winters and hotter Mediterranean summers. There is an urgent need to improve drought preparedness through increased knowledge, drought management plans and an improved science-policy interfacing that will reduce vulnerability to future drought and the risks they pose for Europe. Drought-R&SPI strives to address this pressing need.

Drought-R&SPI aims to enhance the understanding of the: (i) drought as a natural hazard, incl. climate drivers, drought processes and occurrences, (ii) environmental and socioeconomic impacts, and (iii) vulnerabilities, risks and policy responses, incl. the further development of drought management plans in support of EU and other international policies, e.g. UN/ISDR-HFA. The project addresses the past and future climate, link science and science policy dialogue across scales and across a range of affected sectors.

Submission of Contributions

Participants are encouraged to submit a 200-300 words abstract to: icdrought2015@upv.es before July 31st 2014. Notification of accepted abstracts by the scientific committee will be before August 15th 2014. Oral and poster presentations are envisaged. Full papers will be due by October 15th 2014, and, after peer review, they will be published in a book with ISBN, which will be handled to the participants at the conference. High-quality contributions could also be invited to extend the conference contribution into a paper for a well reputed journal.

Scientific Committee

Joaquín Andreu, Universitat Politècnica de València, Spain Dionysis Assimacopoulos, National Technical University of Athens, Greece Lucia De Stefano, Universidad Complutense de Madrid, Spain Teodoro Estrela - Monreal, Confederación Hidrográfica del Júcar Javier Ferrer -Polo, Confederación Hidrográfica del Júcar Emmanuelle Garnier, Université de Caen, France Gregor Gregoric, Environmental Agency of Slovenia, Slovenia Henny van Lanen, Wageningen Universiteit, The Netherlands Dennis Lettenmaier, University of Washington, USA Antonio Massarutto, Universita Commerciale 'Luigi Bocconi', Italy Zoran Nakic, University of Zagreb, Croatia Javier Paredes-Arquiola, Universitat Politècnica de València, Spain Francisco Rego, Instituto Superior de Agronomia, Portugal Mohsen Saravi, University of Tehran, Iran Irmi Seidl, WSL, Switzerland Sonia Seneviratne, ETH Zürich, Switzerland Mark Svoboda, National Drought Mitigation Centre, Lincoln, Nebr., USA Abel Solera, Universitat Politècnica de València, Spain Kerstin Stahl, Albert-Ludwigs-Universitaet Freiburg, Germany Milada Statsna, Mendel University, Czech Republic Lena Tallaksen, Universitetet i Oslo, Norway Donald Wilhite, University of Nebraska Lincoln, USA Wouter Wolters, Alterra, The Netherlands Eric Wood, Princeton University, USA

Registration and fees

Access to registration is available at the conference website: http://www.icdrought2015.upv.es

Registration fees are:

Normal: 250€ (Early bird -before Dec. 1st: 225€)

Young scientist (not older than 35 years): 200€

• Students: 150€

Fees include printed materials and book, coffee breaks and lunches of the three conference days, and the conference dinner. Additionally, there is a chance to attend a technical visit on March 13th for an extra fee of 50€ including transportation, coffee break, and lunch.

Organizing committee

Joaquín Andreu David Haro Abel Solera Javier Paredes-Arquiola

Medio Ambiente - Universitat Politècnica de València

Henny van Lanen Linda Oud

Wageningen Universiteit

Javier Ferrer-Polo

Teodoro Estrela-Monreal Pedro Marco Segura

Confederación Hidrográfica del Júcar

Instituto de Ingeniería del Agua y

Javier Macián-Cervera

Aguas de Valencia

Conference Venue

Universitat Politècnica de València

Camino de Vera s/n 46022, Valencia, SPAIN

Valencia is a livable city that combines vanguard's architecture with historic buildings, art museums, gastronomic culture, beaches, sunshine, and many other attractions and traditions. Weather in Valencia is usually good in March, with an average temperature of 19°C (66°F) during the day. Additionally, from 14th to 19th in March the most important festivity of the city, "Las Fallas de Valencia", takes place.

Contact for further information

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