

Programme of the Symposium on Drought and Climate Change

Day 1: Thursday, November 24, 2022

Zoom link

<https://zoom.us/j/96593774421?pwd=djVDcHlmQ011VnpGTIBRckxjcjg5UT09>

Theme: Drought and Climate Change Assessment

Session Chair: Prof. *Wen Wang*, Hohai University, China

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| 9:10- 9:25 CET time 16:10 -16:25 Beijing time | Opening speech: <i>Wen Wang</i> , Hohai University <i>Jarostaw Napiórkowski</i> , Institute of Geophysics, Polish Academy of Sciences, Poland |
| 9:25 – 10:00 CET time 16:25 – 17:00 Beijing time | Keynote Speech: Assessment of drought changes in China during 1961-2019 based on various indices <i>Panmao Zhai</i> , Chinese Academy of Meteorological Sciences, China |
| 10:00 – 11:15 CET time 17:00 – 18:15 Beijing time | Technical Session |
| | Impacts of large reservoir on the hydrological drought propagation: threshold, development and recovery <i>Jiefeng Wu</i> |
| | The Probability of Drought Propagation From Meteorological to Soil Moisture based on multiple datasets and the influencing factors analysis <i>Ye Zhu and Wen Wang</i> |

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| | <p>Time series clustering using trend, seasonal and autoregressive components: patterns of change of maximum temperature in Iberian Peninsula Arnobio Palacios Gutierrez and Jose Luis Valencia Delfa</p> <p>Evolution of compound drought and heatwaves variation and its relationship with climate modes across China Xiaolong Pan, Weiguang Wang, Jia Wei, Liyan Yang</p> <p>The influence of anthropogenic climate change on drought in Lancang-Mekong River Basin Xingye Han, Qiongfai Li</p> |
| <p>11:15 – 12:15 CET time 18:15 – 19:15 Beijing time</p> | Break |
| <p>12:15 – 13:00 CET time 19:15 – 20:00 Beijing time</p> | <p>Keynote Speech: Drought: from statistical estimation to physical interpretation Yuanbo Liu, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, China</p> |
| <p>13:00 – 14:15 CET time 20:00 – 21:15 Beijing time</p> | Technical Session |
| | <p>Satellite-based soil moisture could enhance the reliability of agro-hydrological modeling in large transboundary river basins Mohammad Reza Eini, Christian Massari and Mikołaj Piniewski</p> <p>Remote sensing as a tool to monitor drought at the watershed scale Ali Alperen Iscan and Michael Nones</p> <p>Change of precipitation-runoff relationship during drought propagation in different climate, catchment properties and human activities contexts Jingshu Wang and Wen Wang</p> <p>Discrepancies in the spatial assessment of drought - the Vistula catchment study Emilia Karamuz, Iwona Kuptel-Markiewicz, Tesfaye Senbeta, Ewa Bogdanowicz and Jarosław Napiórkowski</p> <p>Impacts of improving irrigation efficiency on hydrological drought Hui Cheng, Pieter van Oel and Wen Wang</p> |
| <p>14:15 – 14:30 CET time 21:15 – 21:30 Beijing time</p> | Wrap-Up Session |

Day 2: Friday, November 25, 2022

Zoom link

<https://zoom.us/j/99358261110?pwd=SkNFeVZucWozdEZubU1lY1F1NE5SQTO9>

Theme: Drought Impacts and Adaptation

Session Chair: Prof. *Jarostaw Napiórkowski*, Institute of Geophysics, Polish Academy of Sciences, Poland

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| 9:10 – 9:15 CET time 16:10 – 16:15 Beijing time | Session Introduction |
| 9:15 – 10:00 CET time 16:15 – 17:00 Beijing time | Keynote Speech: Impact of and adaptation to climate change in water sector of China <i>Guoqing Wang, Nanjing Institute of Hydraulic Research, China</i> |
| 10:00 – 11:00 CET time 17:00 – 18:00 Beijing time | Technical Session |
| | Soil moisture droughts and their impacts on vegetation in the Tibetan Plateau <i>Yongwei Liu, Wen Wang, Xingwang Fan, Han Zhou and Yuanbo Liu</i> |
| | Effects of water storage and demand on hydrological drought propagation in upstream and downstream areas <i>Marco Schilstra, Wen Wang, Pieter van Oel and Jingshu Wang</i> |
| | Agricultural drought assessment in nine agricultural regions of China through cross-validation of multiple data products and multiple drought indices <i>Ying Pan, Yonghua Zhu and Haishen Lu</i> |
| | Quantile-quantile correction of satellite-based relative productivity in Northern Tunisia <i>Nesrine Abid and Zoubeida Bargaoui</i> |
| 11:00 – 12:00 CET time 18:15 – 19:00 Beijing time | Break |
| 12:00 – 13:00 CET time 19:00 – 20:00 Beijing time | Keynote Speech: From meteorological to hydrological drought in Europe: amplification and recovery |

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| | Christian Massari , Research Institute for Geo-Hydrological Protection CNR, Italy |
| 13:00 – 14:15 CET time 20:00 – 21:15 Beijing time | Technical Session |
| | The dynamics of low flows characteristics and exposure to hydrological drought along the River Vistula and in its basin Ewa Bogdanowicz , Emilia Karamuz , Iwona Markiewicz and Krzysztof Kochonek |
| | Conceptual approach for a holistic low-flow risk analysis Udo Satzinger and Daniel Bachmann |
| | Climate Change and karst aquifers - methodologies review Jelena Krstajic , Quanyi Ye , Jennie Steyaert and Amin Shakya |
| | Understanding socio-hydrological vulnerability to drought over time and space in the context of climate change, Vistula River Tesfaye Belay Senbeta , Emilia Karamuz , Krzysztof Kochanek and Jarosław Jan Napiórkowski |
| | Analysis of Drought Characteristics and Associated Parameters over Indus River Basin, India Amit Dubey , Deepak Swami , Vivek Gupta and Nitin Joshi |
| 14:15 – 14:30 CET time 21:15 – 21:30 Beijing time | Wrap-Up Session |