

# Drought and Water Scarcity: addressing current and future challenges

20 and 21 March 2019, Oxford University, UK

## Draft Programme: Wednesday 20 March

	Speaker	Title
<b>Guest Speakers</b>	Rob Wilby Loughborough University	Challenging the mantra of wetter-winters, drier summers in the UK
	Henny van Lanen Wageningen University	Recent international experiences and the 2018 drought in NW Europe
	Kerstin Stahl Freiburg University	Linking drought indices to a range of sectorial impacts
<b>Climatology and hydrology Session</b>	Dr Christopher Nankervis Weather Logistics Ltd	Use of Copernicus seasonal climate forecast model data to improve the accuracy of long-term forecasts: the UK Summer Rainfall Insights project
	Len Shaffrey University of Reading	Has climate change increased the chance of events like the 1976 North West European drought occurring?
	Dr John Bloomfield BGS	Characterising the effects of major episodes of drought on groundwater at the national to continental scale
	Lucy Barker CEH	How severe were historic hydrological droughts in the UK? Insights from a systematic characterisation and ranking of events back to 1891
	Ragab CEH	Study of the drought risk in different UK catchments under future climate and land use changes
	Bramha Dutt Vishwakarma University of Bristol	Novel metric for water stress from the Gravity Recovery And Climate Experiment (GRACE) satellite mission
	Matt Fry CEH	The Historic Droughts Inventory: an accessible archive of past drought impact information for the UK from diverse documentary sources
	Lizzy Brock Met Office	Re-analysis of historical events using up to date extreme value techniques with particular reference to 'severe' events
<b>Impacts Session</b>	Daniela Anghileri University of Southampton	Strengthening research capabilities for addressing water and food security challenges in sub-Saharan Africa
	Stephen McGuire SEPA	Assessing the impacts of water scarcity in Northeast Scotland through the summer of 2018
	Frederick Otu-Larbi Lancaster University	Modelling the effects of drought stress on photosynthesis and latent heat fluxes
	Kirsti Ashworth Lancaster University	The effect of the hot dry conditions of 2018 on natural ecosystems: findings from Wytham Woods, Oxfordshire
	Jill Thompson CEH	Impact of reduced rainfall on the growth and development of plants in British semi-natural grassland: a rainfall manipulation study
	Susan Davies University of Edinburgh	Effective risk management against the threat of drought impacts on the Scottish timber industry
	Peter Kettlewell Harper Adams University	Mitigating drought impact on crop yield by applying film-forming polymers



**About Drought**

Maximising the impact of UK research on drought & water scarcity

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<b>Guest Speakers</b>	Anne van Loon Birmingham University	Feedbacks between drought and society
	Massimiliano Pasqui CNR	A customizable drought monitoring and seasonal forecasting service to support different users' needs
	Ian Holman Cranfield University	Taking lessons from the 2018 drought forward into increased drought resilience in the agricultural sector
	Mike Morecroft Natural England	Drought impacts on the natural environment and lessons for climate change adaptation
<b>Communities Session</b>	Antonia Liguori UWE	Learning around 'storying water' to build an evidence base to support better decision-making in UK drought risk management
	Sandra Santos Wageningen University	Improving institutional frameworks integrating local initiatives from communities exposed to drought and water scarcity in Ecuador
	Kevin Grecksch University of Oxford	Achieving water efficiency through social norms in the public sector
	Ruth Larbey UWE	Engaging consumers around water scarcity and water saving
<b>Planning &amp; Management Session</b>	Caroline King & Daniel Tsegai TBI & GeoData Institute	A review of methods for drought impact and vulnerability assessment
	Amanda Fencil University of California, Davis	Interconnections between Research on Groundwater, Drought and Climate Change
	Lindsey McEwen DRY	Integrating science and narratives: a new interdisciplinary approach to develop drought mitigation strategies
	Ruth Langridge University of California	Groundwater management in planning for drought: experience from California, USA
	Sevilay Topcu Cukurova University	Implementing Drought Management in Turkey: an institutional pathology
	Granville Davies & Miranda Foster Yorkshire Water	Water resources in Yorkshire, UK in 2018: drought management, perception and communication
	Mark Smith Hydro-Logic Services Ltd	Recent trends in water resources planning and management
<b>Impacts Session</b>	Cedric Laize CEH	Relationship between a drought-oriented streamflow index and a series of riverine biological indicators
	Jessica Picken QMUL	The ecological implications of increased abstraction and associated drought on chalk streams
	Jaeyoung Lee University of Oxford	Water quality modelling in the Severn-Thames river systems and the impact of a water transfer in drought
	Paul Whitehead University of Oxford	Impacts of climate change on water quality affecting upland and lowland rivers, wetlands and delta systems

