Data Driven Approaches to Hydrology 2025

Panel Q&A:

Frances Bunda: *I started working as the UKCEH Early Careers Advisor in August 2022. I have a Masters degree in Chemistry (MChem) and a Masters degree in Philosophy, in Chemistry (MPhil) from the University of Bath. Following work as a research scientist for eight years in the pharmaceutical and agrochemical industries, I returned to Nottingham Trent University to complete a Postgraduate Diploma in Careers Guidance (PGDipCG, QCG) and changed career to work in student support. I have held roles in the further education and higher education sectors in the past 10 years. My previous roles at the University of Minnesota in Minnesota, USA involved working as an Academic Advisor for the Department of Electrical and Computer Engineering as well as being the Nature of Life Program Director in the College of Biological Sciences. I am experienced in mentoring, advising, teaching and strategic program management. I am passionate about personal and professional development, student or employee experience, success, wellbeing and motivation as well as access and engagement. I have a significant interest in science and STEM.*

Gemma Coxon: *Gemma is an Associate Professor and a UKRI Future Leaders Fellow based at the University of Bristol. Her research focusses on understanding and predicting floods and droughts in changing environments. She has developed national-scale models of river flows for Great Britain and led the development of the CAMELS-GB dataset consisting of catchment timeseries and attributes for 671 catchments. She is particularly interested in better understanding and predicting human-impacted water systems, recently using large-sample of catchments combined with unique water-use datasets to understand how reservoirs and urban areas impact river flows. Gemma is currently the capacity building leader of a £38M investment in flood and drought research infrastructure in the UK.*

Jamie Hannaford: *Jamie Hannaford leads the Water Resources and Drought group at UKCEH. He has 24 years' experience working on all aspects of hydro-climatic variability and change. He is also a visiting Associate Professor at the Irish Climate And Research Units (ICARUS) at Maynooth University, Ireland. He has led historical assessments of river flow variability and UK initiatives focusing on future climate impacts on UK hydrological extremes (e.g. the eFLaG projections). He is a member of the Hydrological Outlook team and has led advances in situation monitoring and early warning (e.g. the UK Water Resources Portal). He also works with decision-makers in embedding science outputs into practice, for example in the 'applications' work package of HydroJULES. Jamie has led and contributed to many international projects and programmes focused on drought, in India, China, Ghana, Thailand and Myanmar as well as at the global scale.*