Bolin Centre
for Climate Research

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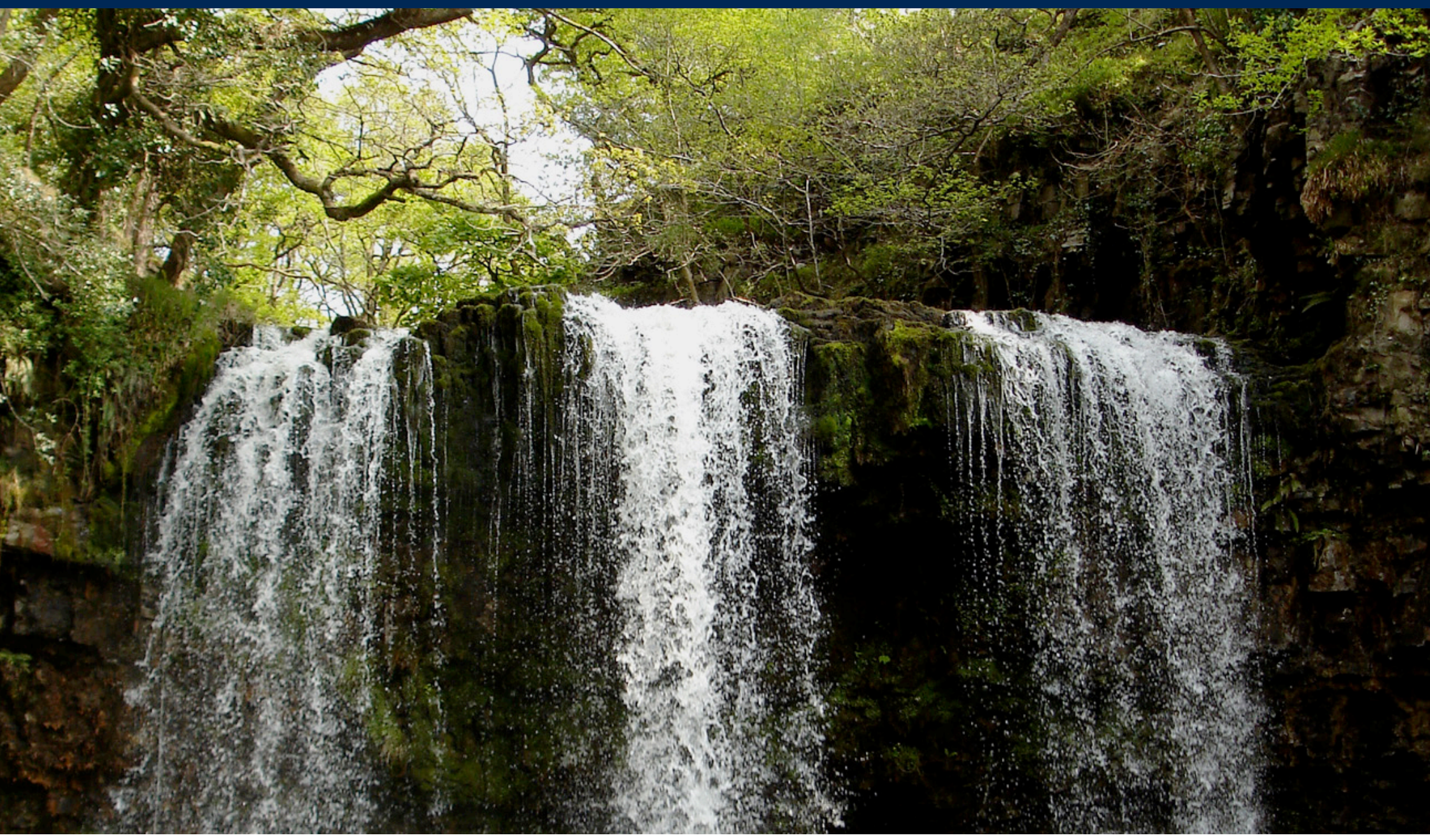

With Researchers from around the World

RA3 Zoom Series

Rejected recharge: The story of what lies beneath

It has long been assumed that watershed storage provides vital stores to sustain surface water flow during periods of dryness, with some arguing that water storage serves as the primary source for flow. The important hydrologic connection between discharge and watershed storage is deemed to be under threat, as changes in land cover and climate interconnect to alter groundwater balance. Recent advances in hydrograph recession analysis has spurred methods to evaluate storage sensitivity of streamflow, providing a framework to assess changes in how a watershed stores, transmits and discharges water. In this presentation, we will evaluate the evidence that links storage sensitivity and water storage. I'll argue that the development of temporal sensitivities highlights the influence of human and climate interactions, upsetting the resilience of flow regimes.

Brian Thomas is currently a Senior Lecturer in Hydrology at Newcastle University School of Engineering, United Kingdom. He holds a BSc in Geology from the University of North Dakota, MSc in Hydrology from the University of New Hampshire, and PhD in Water Resources Engineering, Tufts University. His postdoctoral research focused on the application of remote sensing in groundwater studies at University California, Irvine and NASA Jet Propulsion Laboratory. Brian previously was Assistant Professor of Sustainability at the University of Pittsburgh prior to joining the Water Group at Newcastle.

Speaker: Brian Thomas, Newcastle University School of Engineering, United Kingdom

▶ Time: Tuesday, October 20th at 14h00

Zoom: https://stockholmuniversity.zoom.us/j/8295564699