People and water

Why it is so important to include people in hydrological modelling, and why it is so challenging



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Reservoirs by type over South America, from the GRanD database v1.3 (2019)



Change in prediction skill for daily streamflow over Brazil for JULES with and without water resource management, from the RIVERS Brazil project.



Daily streamflow São Francisco and Tocantins in Brazil, orange: observed; grey: JULES; green: JULES with water resource management







Future water resources in the Cauvery basin under the RCP 4.5 scenario, from the UPSCAPE project.







Challenges: data



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Challenges: data

Reservoirs

Remote sensing data





Potential transfers investigated by RAPID: https://www.ofwat.gov.uk/rapid-and-safeguarding-the-uks-water-supply-for-the-future/





Hydro-JULES aims

High resolution water resource model as part of the unifhy modelling framework



Driving data over the UK

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Thanks for listening!

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