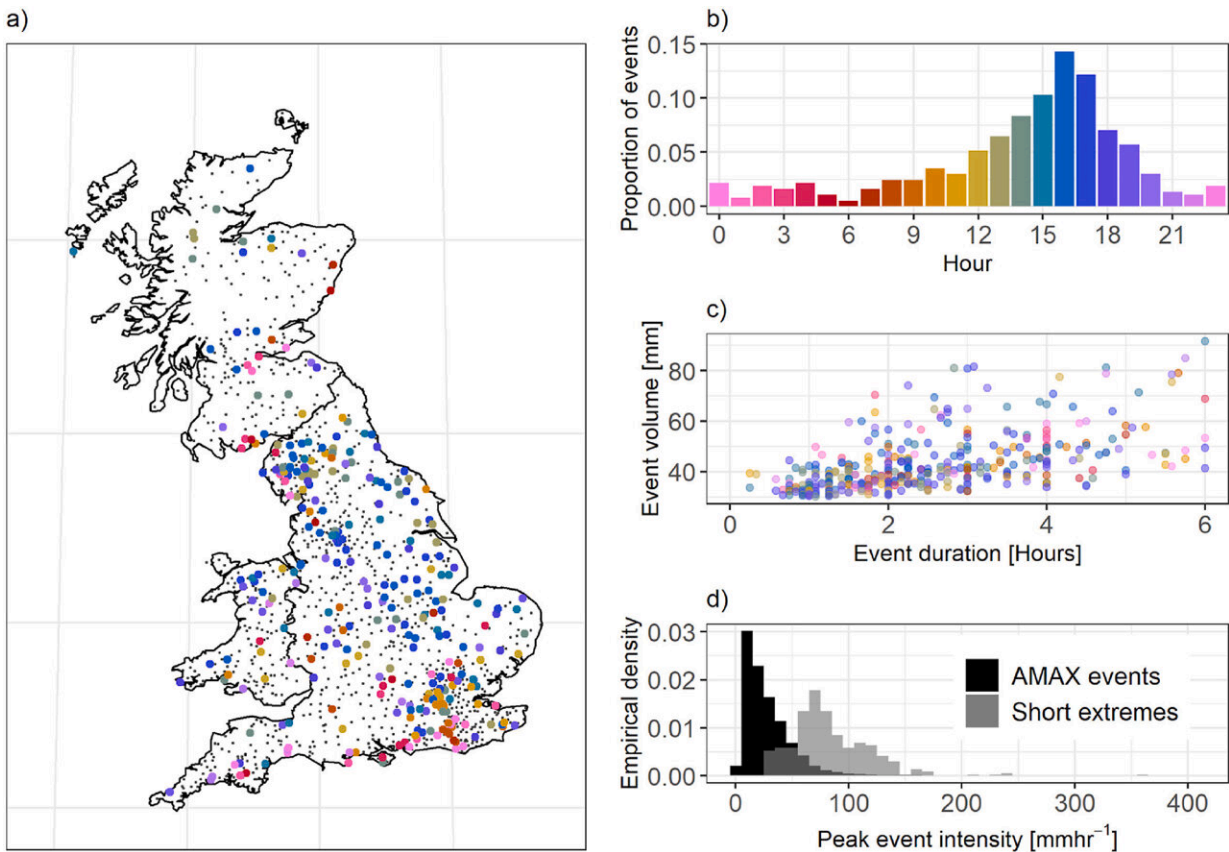


# New model to enhance extreme rainfall prediction

August 29 2024



a) Geographical and b) hourly distributions of UK rainfall events with duration under 6-hrs that match or exceed an intensity of 30 mm h<sup>-1</sup> between 2000 and 2020, c) scatterplot of event duration and volume, and d) Comparison of the peak event intensity [mm hr<sup>-1</sup>] empirical distributions for a large (~72,000) sample of annual maximum events (of any duration) and for short extremes (

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