



Fig. 5 Overview of several rainfall erosivity patterns over PRL along the period 1500–2019 CE. (A) Timeline evolution of rainfall erosivity reconstructed by Eq. (1) (blue thin curve with signed dates when the 98th percentile is exceeded), and with its 3rd order polynomial regression (blue bold line). Mann–Whitney–Pettit⁷⁶ statistic (grey curve) with change-point in the year 1709. Variation coefficient running upon 31-year running window (orange thin curve) with related 3rd order polynomial trend (orange bold curve) (B) Wavelet power spectrum with Morlet basis function for the reconstructed rainfall erosivity; bounded colours identify the 0.10 significance level areas; the bell-shaped, black contour marks the limit between the reliable region and the region above the contour where the edge effects occur (arranged from Hammer et al.¹²⁴).