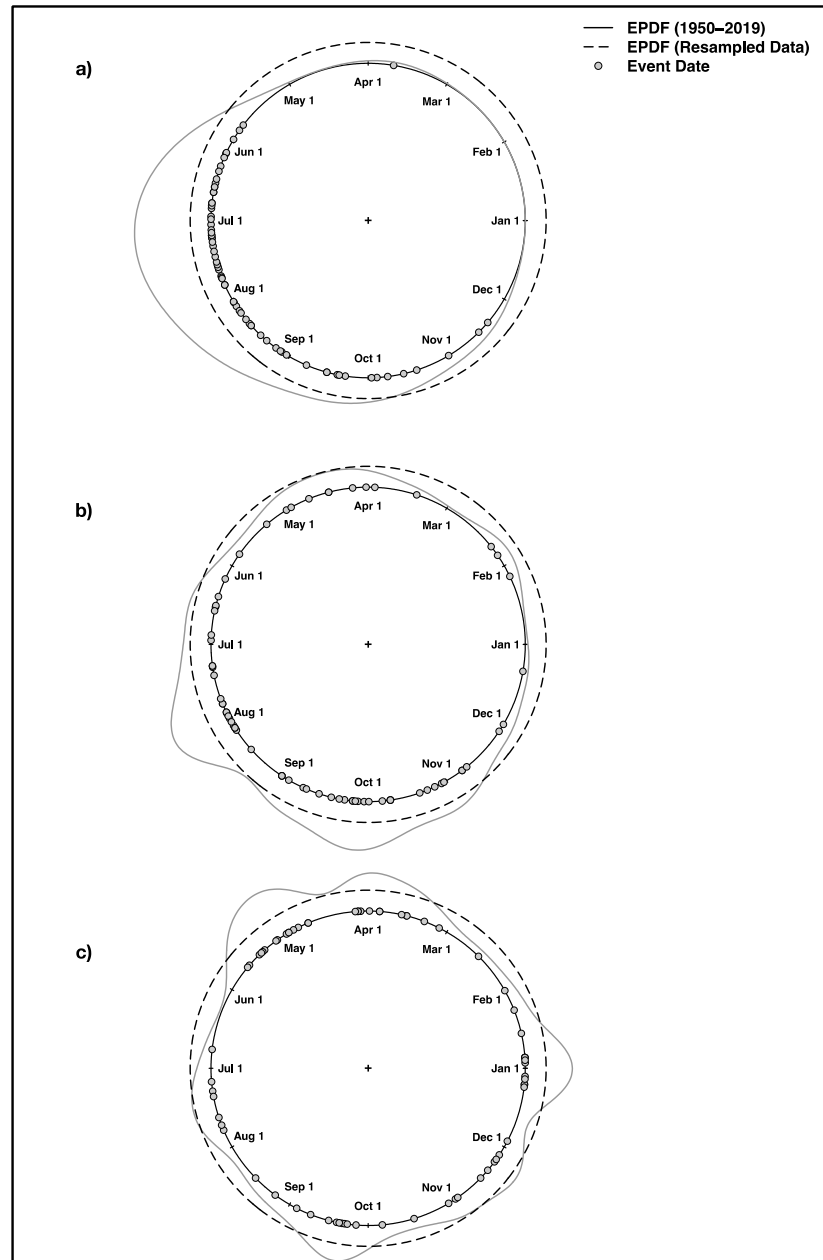
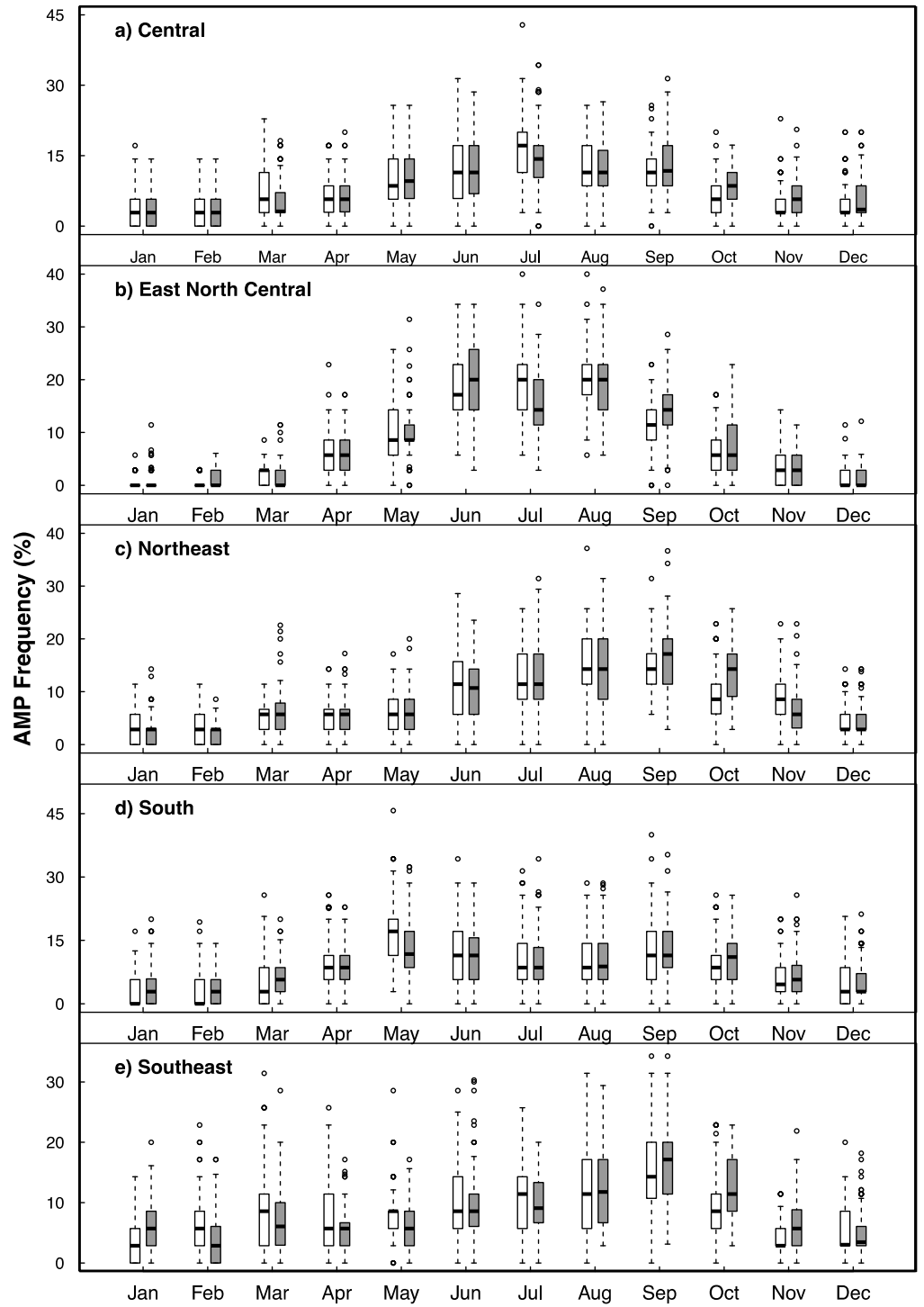


# Supplementary Materials: Examining seasonality based on probabilistic properties of extreme precipitation timing in the eastern United States



**Figure S1.** Empirical Probability Density Function (EPDF) estimates based on the calendar dates of annual maximum daily precipitation for: (a) Minneapolis, Minnesota, (b) Flemington, New Jersey, (c) Corning, Arkansas. Bandwidth for the kernel density estimates is evaluated using the likelihood cross-validation method. Probability density estimates are assessed for significance based on density estimates using resampled data. A median estimate is obtained from the ensemble of distributions resulting from bootstrap resampling (N=1000).



**Figure S2.** Distribution of the month of occurrence of annual maxima daily precipitation, in 1950–1984 (white) and 1985–2019 (gray) for the selected sites and regions presented in Figure 1. In all panels, boxplots show the median, interquartile range, and full range.