





**Figure 11.13:** Signs and significance of the observed trends in annual maximum daily precipitation (Rx1day) during 1950–2018 at 8345 stations with sufficient data. (a) Percentage of stations with statistically significant trends in Rx1day; green dots show positive trends and brown dots negative trends. Box-and-whisker plots indicate the expected percentage of stations with significant trends due to chance estimated from 1000 bootstrap realizations under a no-trend null hypothesis. The boxes mark the median, 25<sup>th</sup> percentile, and 75<sup>th</sup> percentile. The upper and lower whiskers show the 97.5<sup>th</sup> and the 2.5<sup>th</sup> percentiles, respectively. Maps of stations with positive (b) and negative (c) trends. The light color indicates stations with non-significant trends and the dark color stations with significant trends. Significance is determined by a two-tailed test conducted at the 5% level. Adapted from Sun et al. (2020). © American Meteorological Society. Used with permission. Further details on data sources and processing are available in the chapter data table

(b) positive trends 663 significant, 4146 non-significant

(c) negative trends 150 significant, 2334 non-significant

(a)(b)(c) 9% positive, 2% negative significant trends

9% positive, 2% negative significant trends

9% positive, 2% negative significant trends

9% positive, 2% negative significant trends

9% positive, 2% negative significant trends

9% positive, 2% negative significant trends

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