

Supplementary Material**Uncertainty in drought characterization using gridded and station datasets from the India Meteorological Department in the Krishna River Basin, India**

Ajay Gupta^{1,2,3}, Manoj Kumar Jain^{1*}, Rajendra Prasad Pandey¹ and David M. Hannah^{2,3}

¹ *Department of Hydrology, Indian Institute of Technology Roorkee, Roorkee, India*

² *School of Geography, Earth and Environmental Sciences, University of Birmingham, Birmingham, United Kingdom*

³ *Birmingham Institute for Sustainability and Climate Action, University of Birmingham, Birmingham, United Kingdom*

* e-mail: manoj.jain@hy.iitr.ac.in

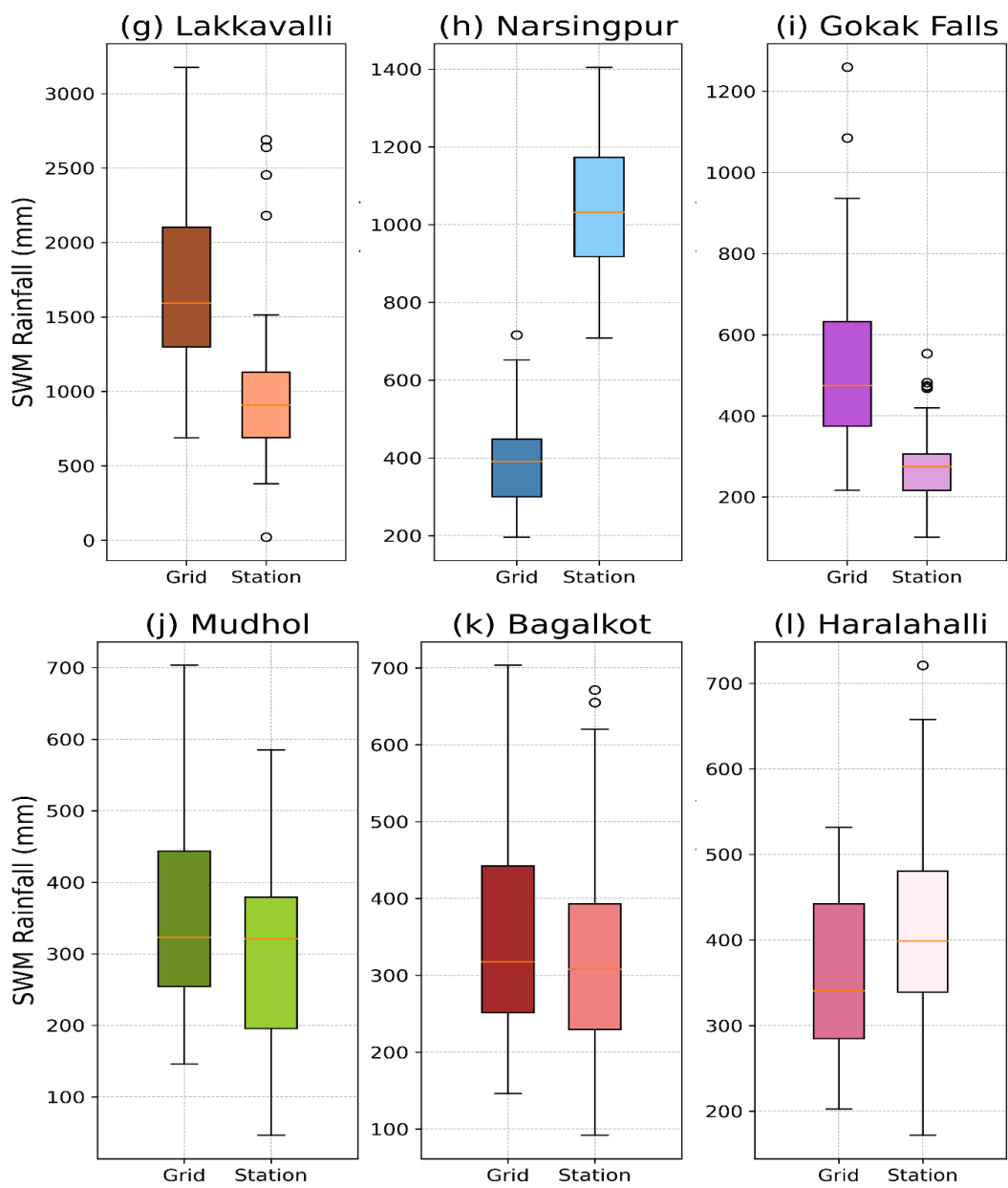


Figure S1 (g-l). Boxplot showing statistical parameters at south-west monsoon (SWM) for grid points and their corresponding rain-gauge stations at six locations

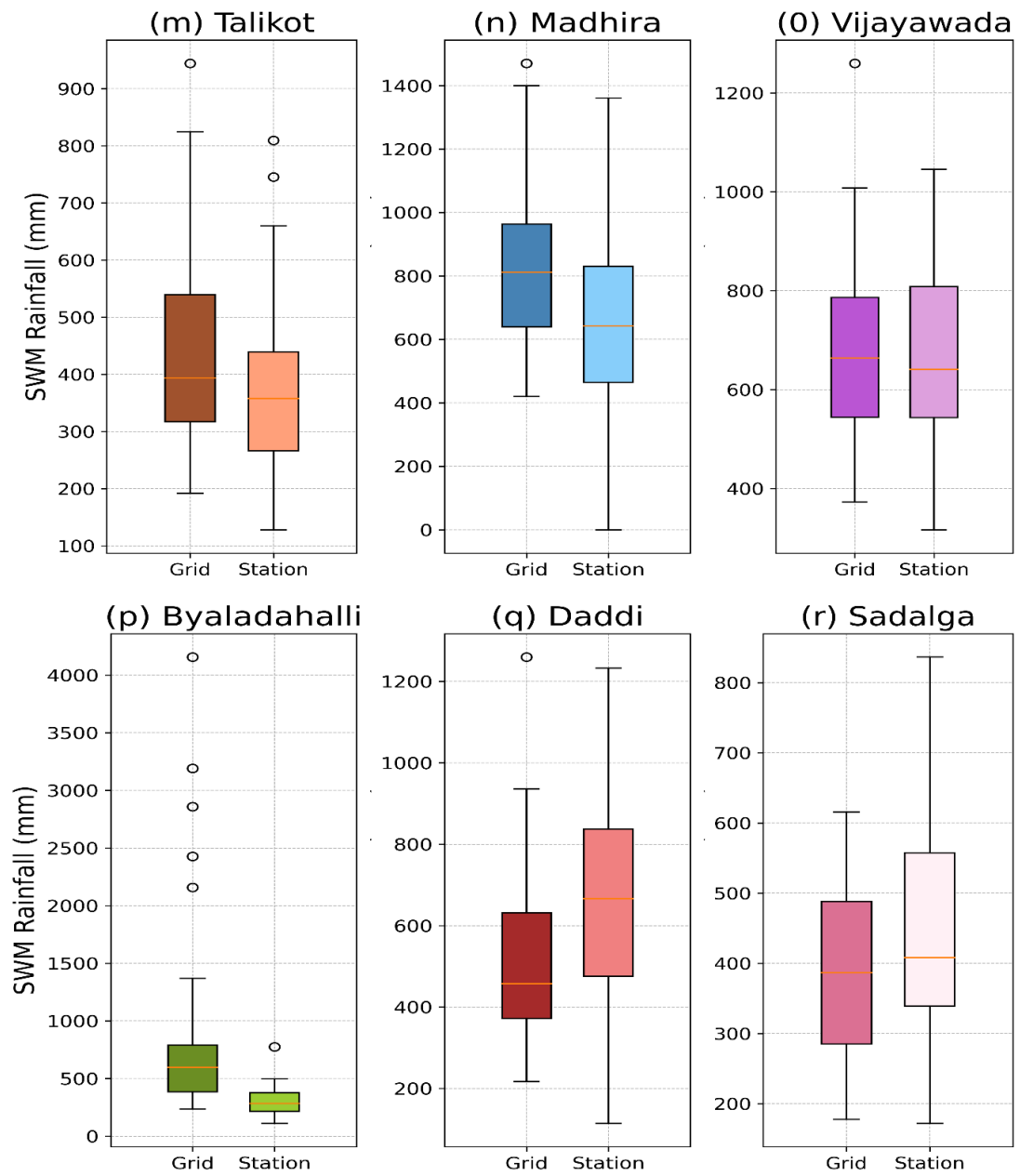


Figure S2 (m-r). Boxplot showing statistical parameters at south-west monsoon (SWM) for grid points and their corresponding rain-gauge stations at six locations

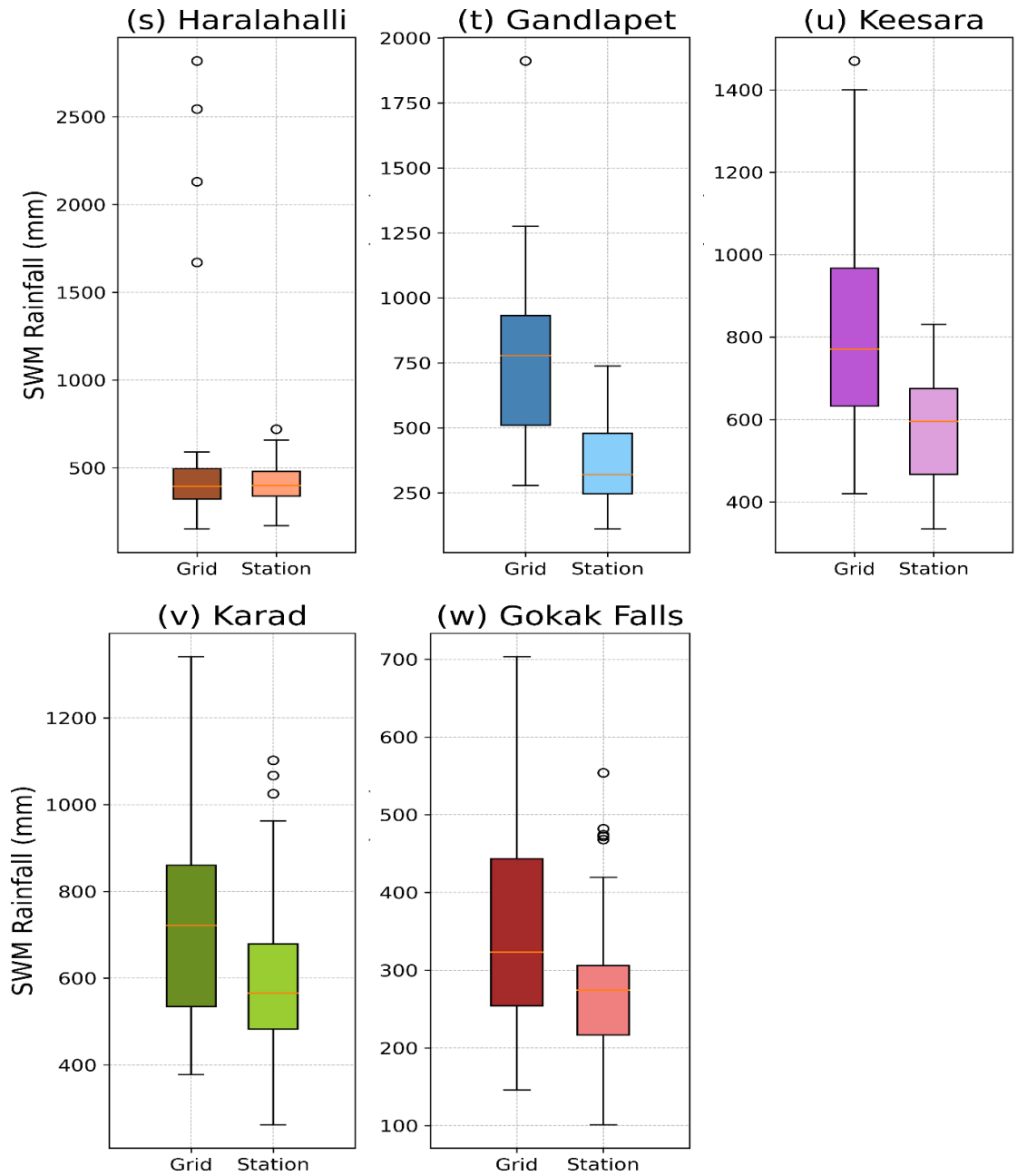


Figure S3 (s-w). Boxplot showing statistical parameters at south-west monsoon (SWM) for grid points and their corresponding rain-gauge stations at six locations.

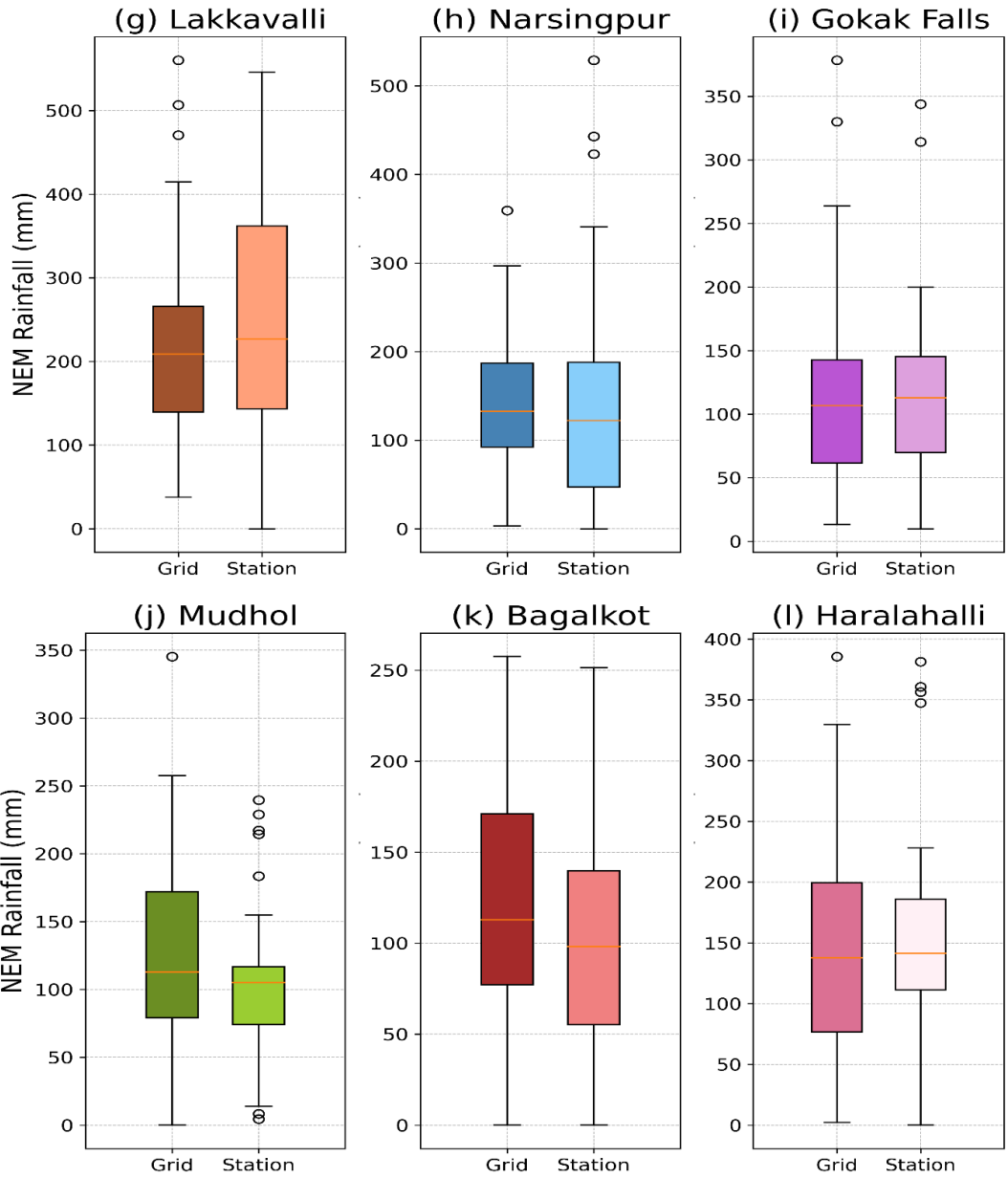


Figure S4 (g-l). Boxplot showing statistical parameters at north-east monsoon (NEM) for grid points and their corresponding rain-gauge stations at six locations

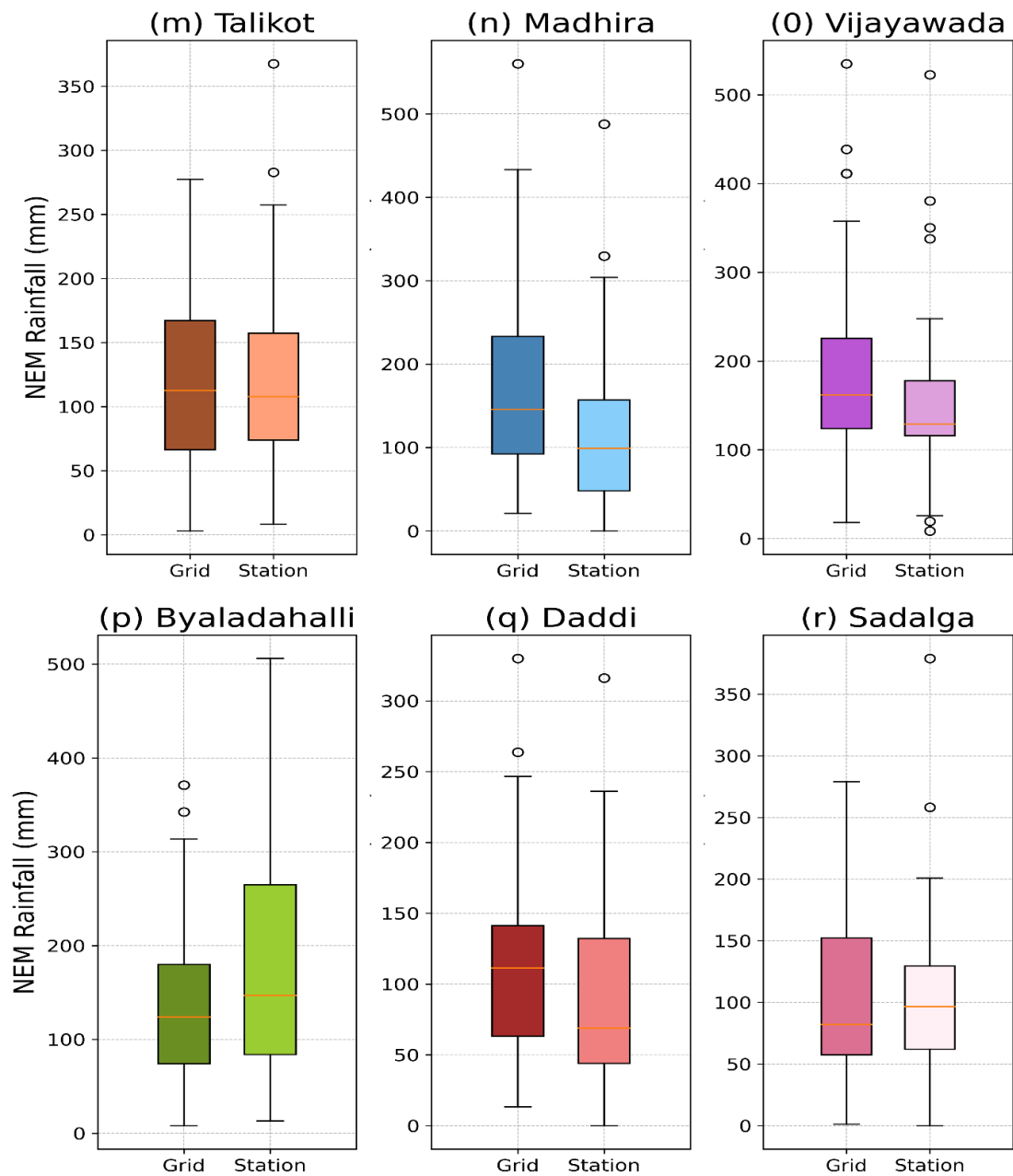


Figure S5 (m-r). Boxplot showing statistical parameters at north-east monsoon (NEM) for grid points and their corresponding rain-gauge stations at six locations

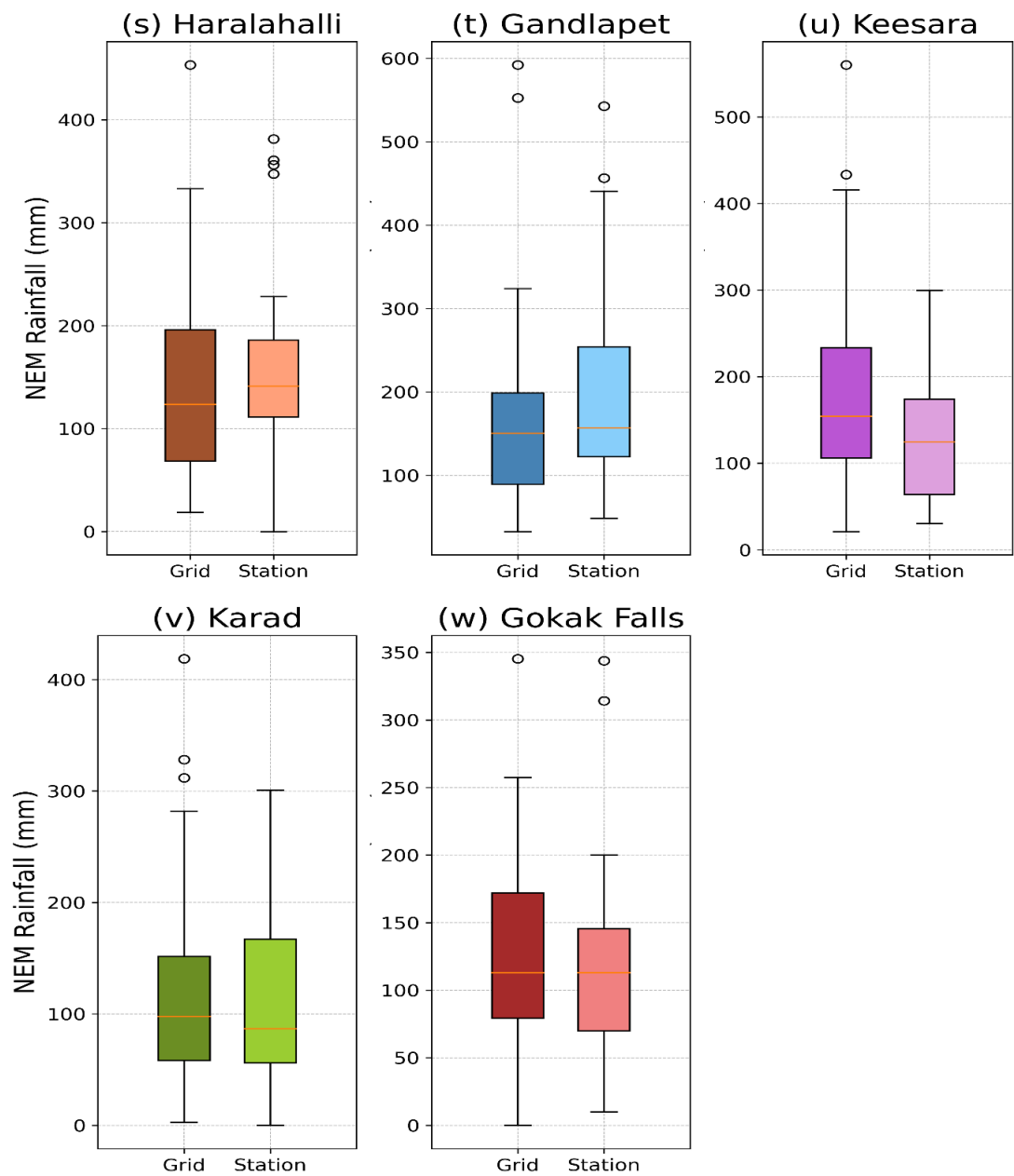


Figure S6 (s-w). Boxplot showing statistical parameters at north-east monsoon (NEM) for grid points and their corresponding rain-gauge stations at six locations

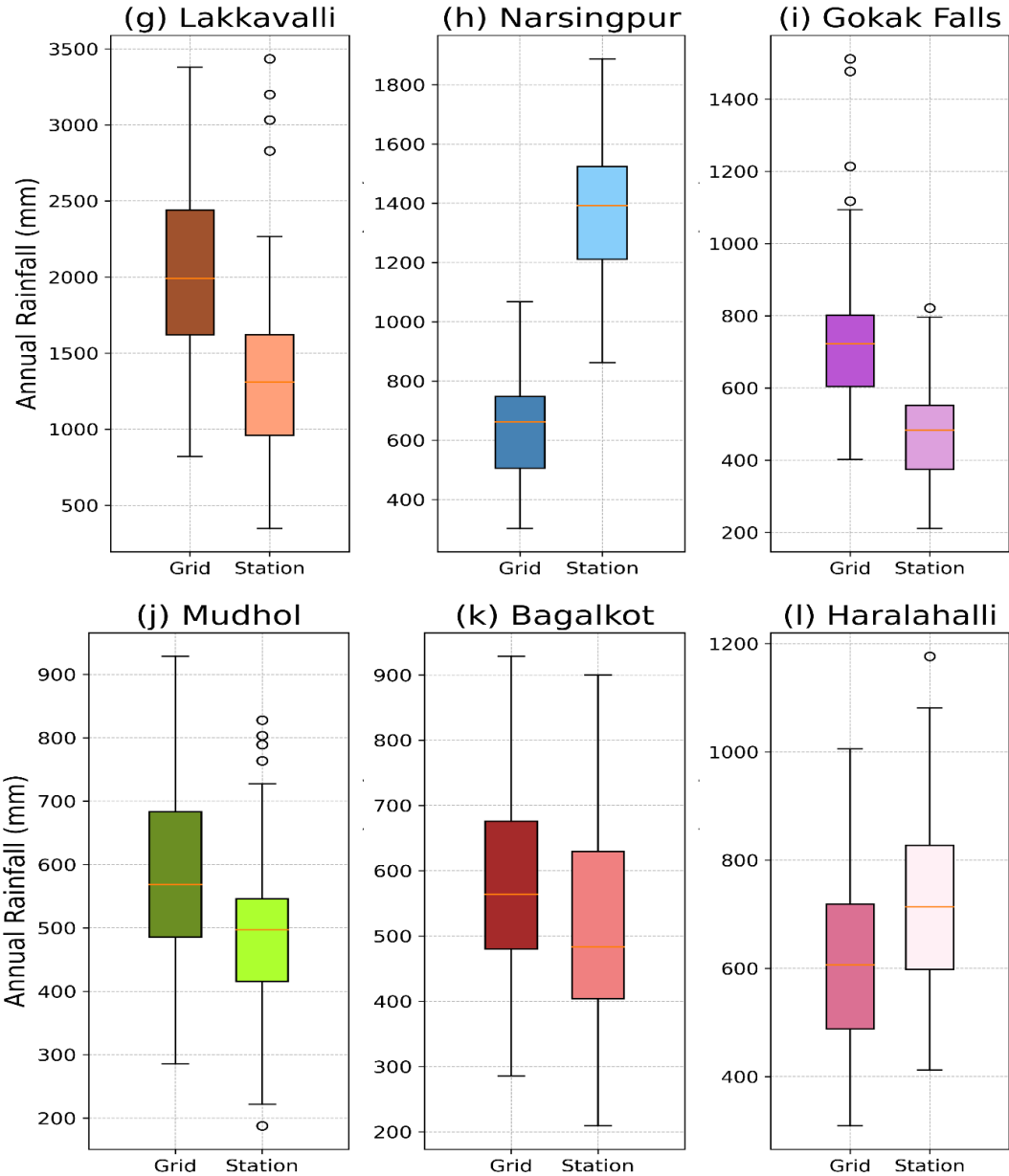


Figure S7 (g-l). Boxplot showing statistical parameters at annual scale for grid points and their corresponding rain-gauge stations at six locations

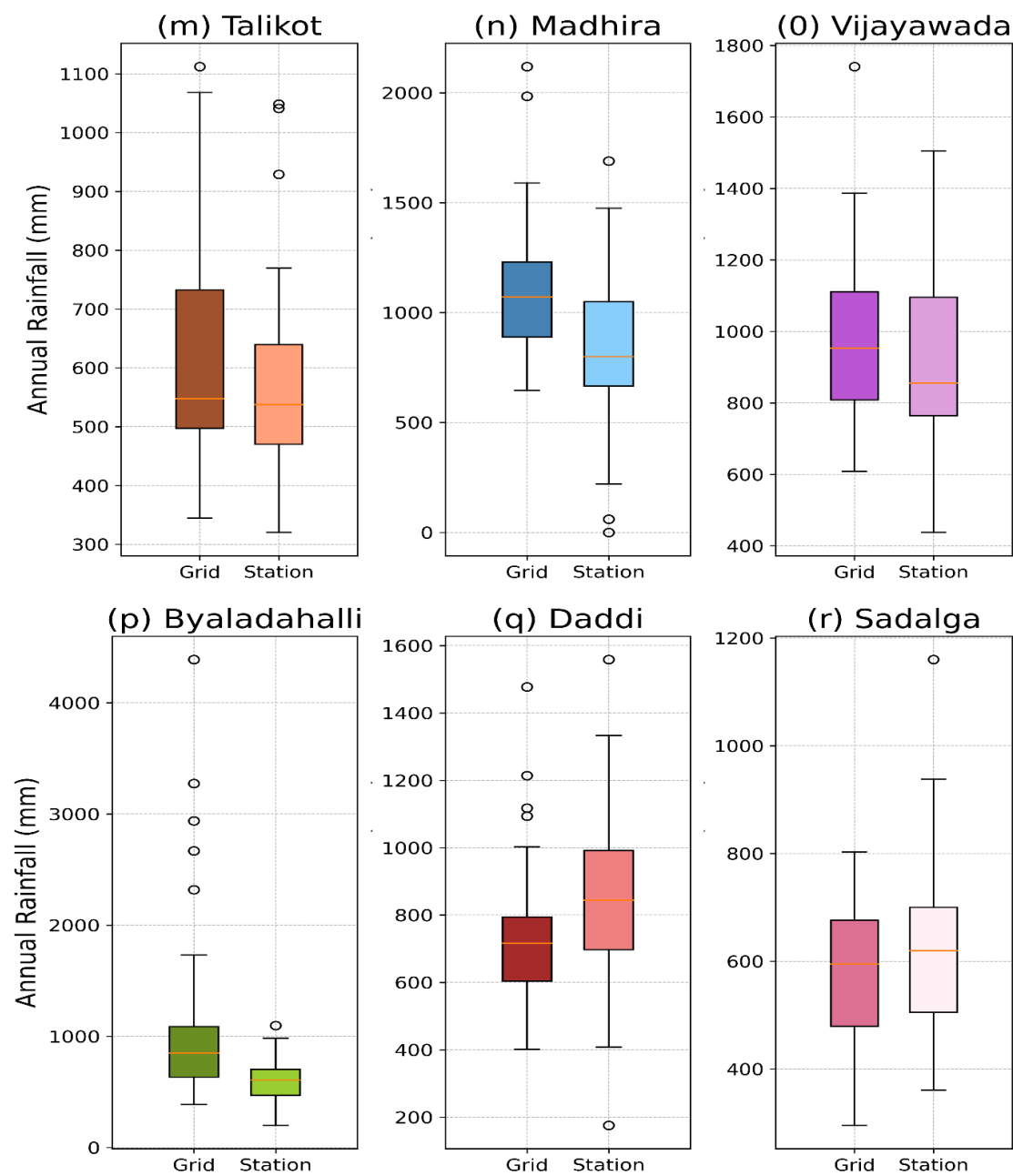


Figure S8 (m-r). Boxplot showing statistical parameters at annual scale for grid points and their corresponding rain-gauge stations at six locations

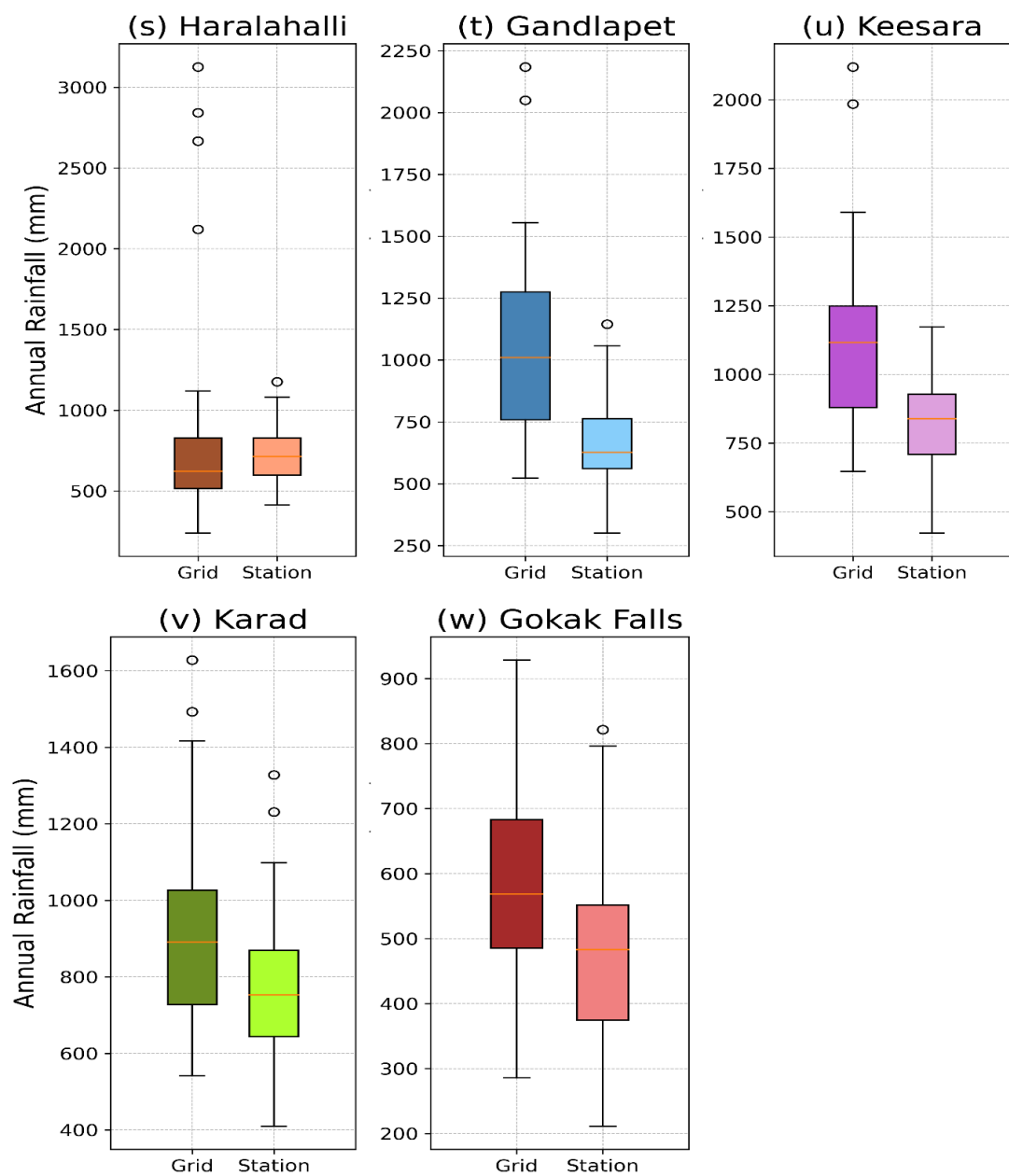


Figure S9 (s-w). Boxplot showing statistical parameters at annual scale for grid points and their corresponding rain-gauge stations at six locations

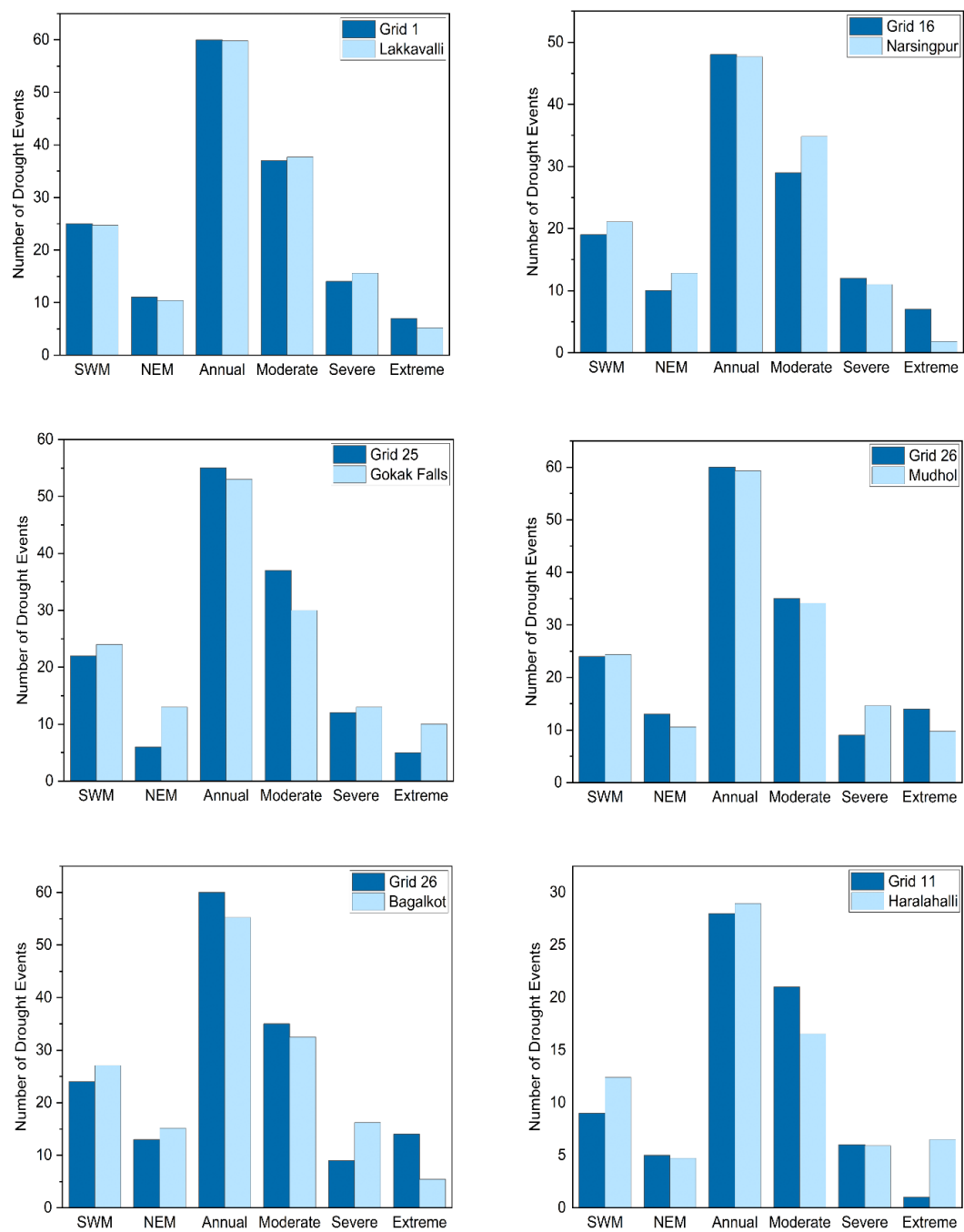


Figure S10. Total number of drought months for grid points and their corresponding rain-gauge stations using SPI at 3-month timescale

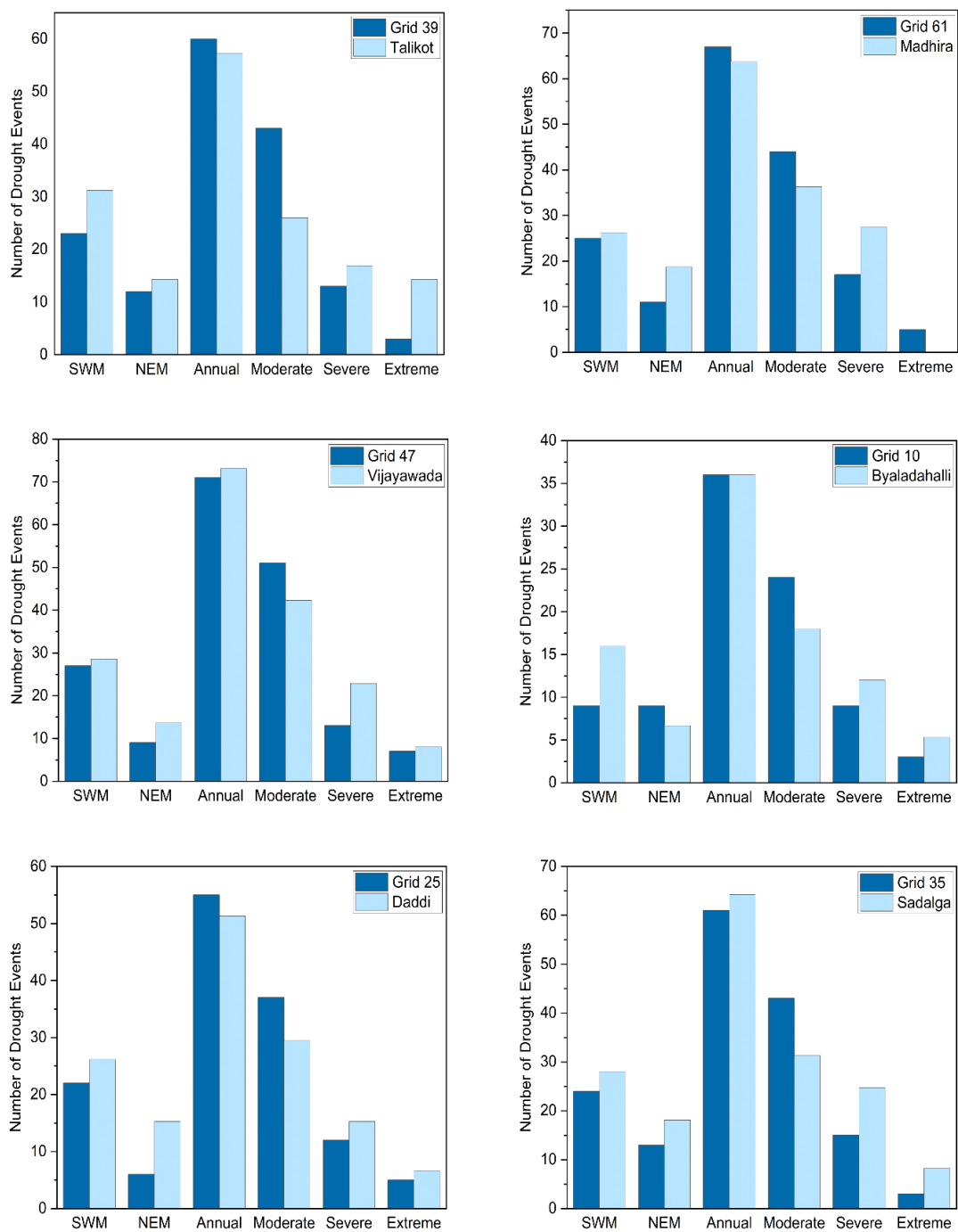


Figure S11. Total number of drought months for grid points and their corresponding rain-gauge stations using SPI at 3-month timescale

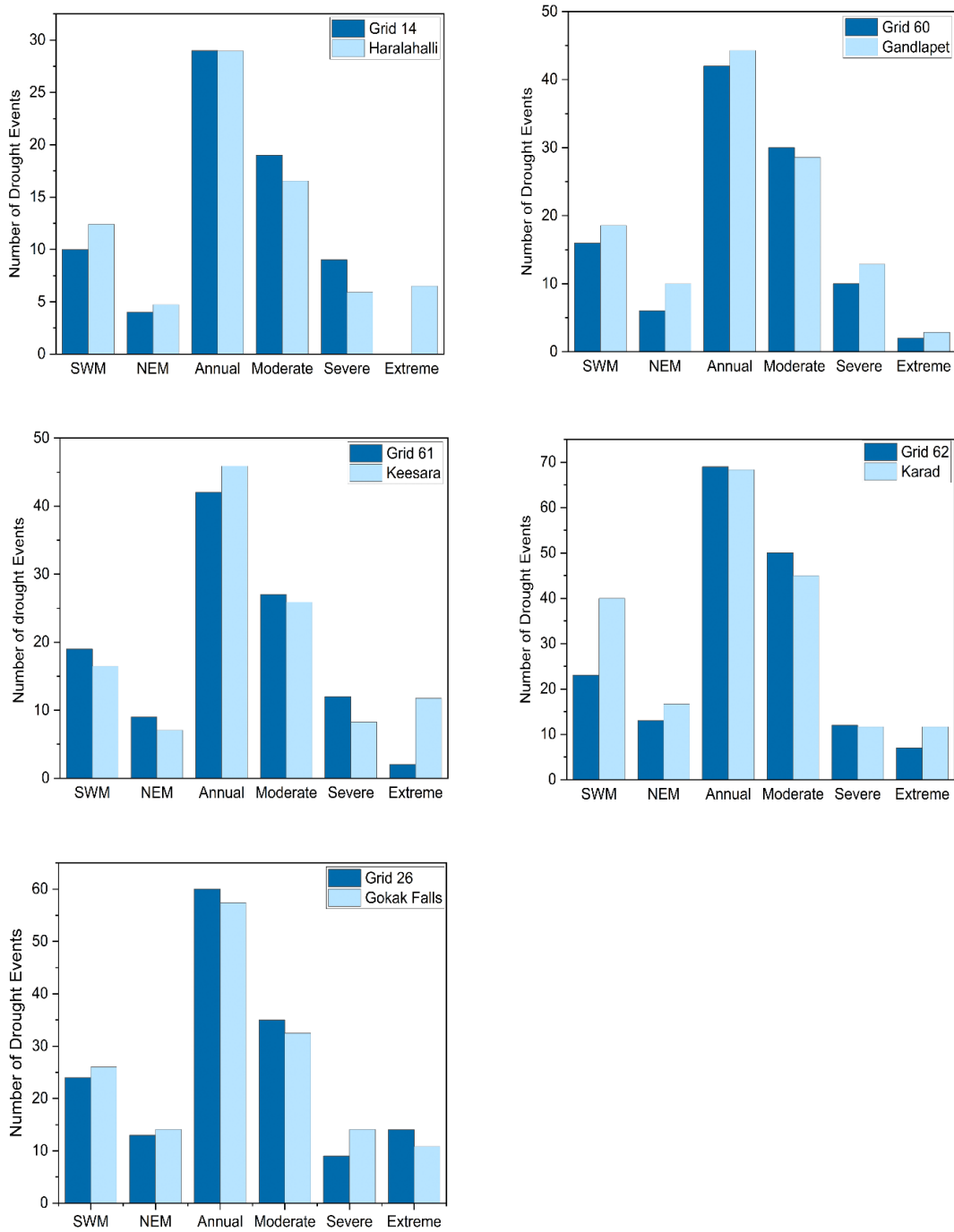


Figure S12. Total number of drought months for grid points and their corresponding rain-gauge stations using SPI at 3-month timescale

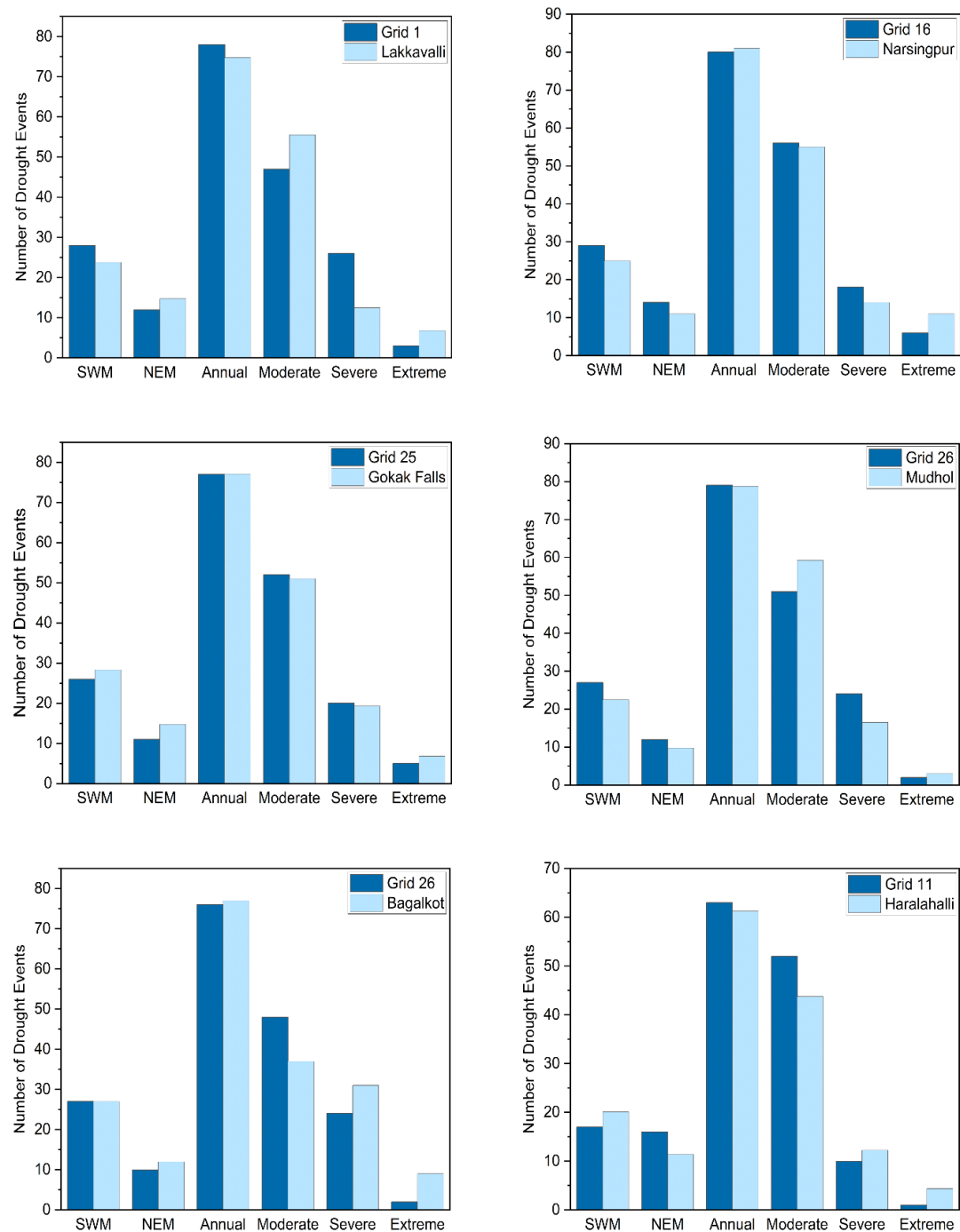


Figure S13. Total number of drought months for grid points and their corresponding rain-gauge stations using SPEI at 3-month timescale

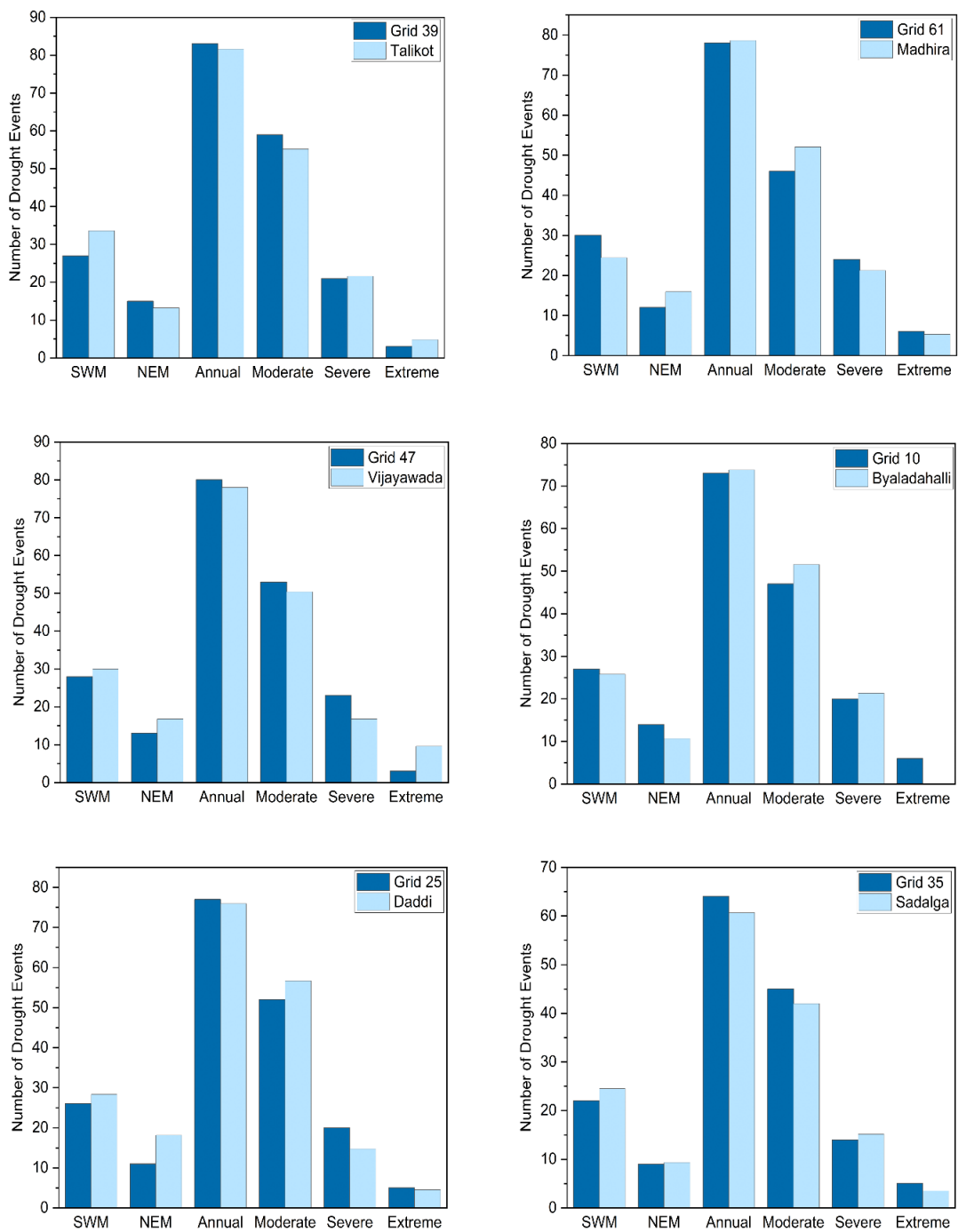


Figure S14. Total number of drought months for grid points and their corresponding rain-gauge stations using SPEI at 3-month timescale

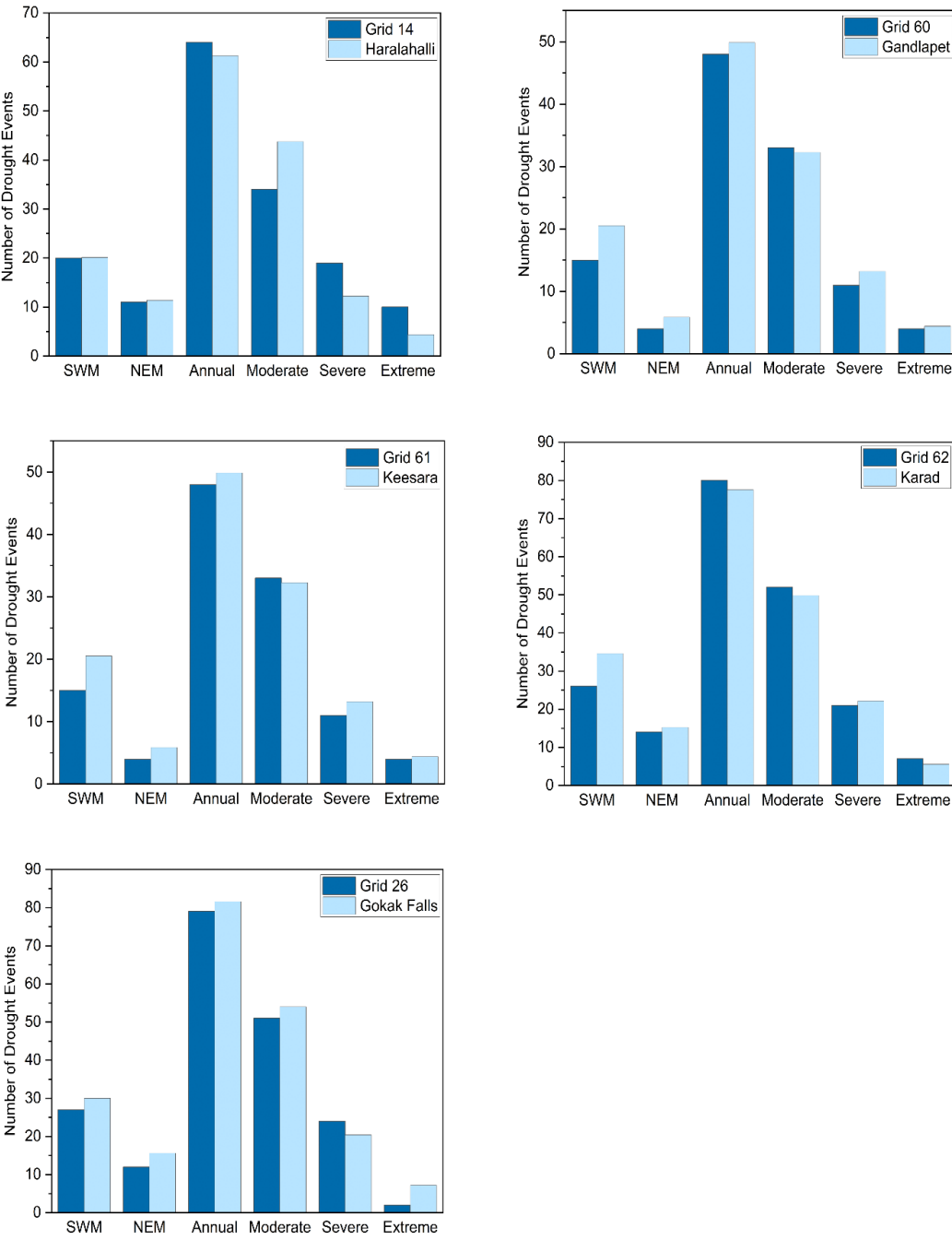


Figure S15. Total number of drought months for grid points and their corresponding rain-gauge stations using SPEI at 3-month timescale