

Metric [unit]	Definition	Objectives	Reference
Amount peak [mm/day]	Rain rate where the maximum rain amount occurs	Characterize typical daily precipitation amount	Pendergrass and Deser (2017); Ahn et al. (2023a)
Amount P10 [fraction]	Fraction of rain amount in lower 10 percentile of OBS amount	Measure the rain amount from light rainfall	Ahn et al. (2023a)
Amount P90 [fraction]	Fraction of rain amount in upper 90 percentile of OBS amount	Measure the rain amount from heavy rainfall	Ahn et al. (2023a)
Frequency peak [mm/day]	Rain rate where the maximum nonzero rain frequency occurs	Characterize typical daily precipitation frequency	Pendergrass and Deser (2017); Ahn et al. (2023a)
Frequency P10 [fraction]	Fraction of rain frequency in lower 10 percentile of OBS amount	Measure the frequency of light rainfall	Ahn et al. (2023a)
Frequency P90 [fraction]	Fraction of rain frequency in upper 90 percentile of OBS amount	Measure the frequency of heavy rainfall	Ahn et al. (2023a)
Unevenness [days]	Number of the wettest days for that constitute half of annual precipitation	Measure uneven characteristic of daily precipitation	Pendergrass and Knutti (2018); Ahn et al. (2023a)
FracPRdays [fraction]	Number of precipitating days (≥ 1 mm/day) divided by total days a year	Measure fraction of precipitating days a year	Ahn et al. (2023a)
SDII [mm/day]	Annual total precipitation divided by the number of precipitating days (≥ 1 mm/day)	Measure daily precipitation intensity	Zhang et al. (2011); Ahn et al. (2023a)
Perkins score [unitless between 0-1]	Sum of minimum values between two PDFs across all bins	Measure similarity between two PDFs	Perkins et al. (2007); Ahn et al. (2023a)
Bimodality [unitless between 0-1]	Ratio of smaller ridge peak minus trough peak to larger ridge peak	Measure the degree of bimodality in a PDF	Ahn et al. (2023b, in prep)

Table 3 of Ahn et al. (2023a)