

Attributes of Streamflow Ensembles in Colorado River Basin

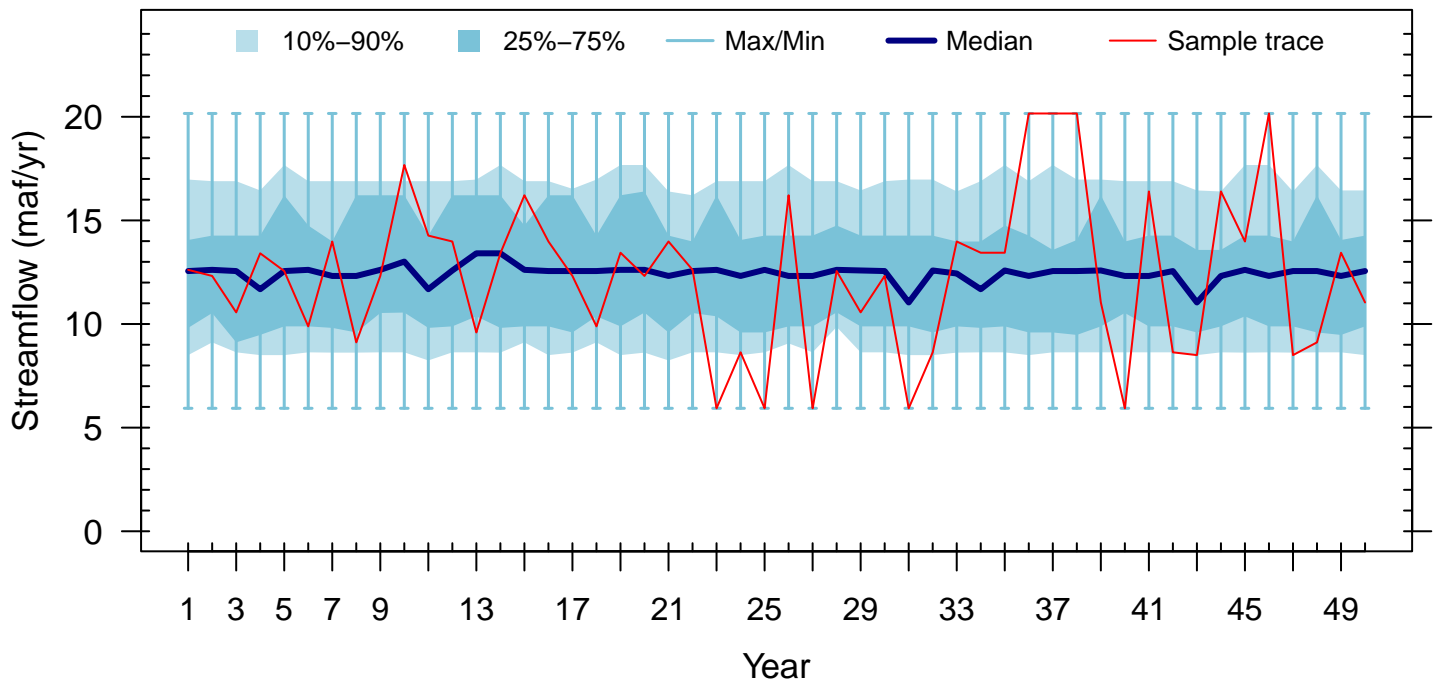
Ensemble: DroughtYrRes_2000_2020

Number of Realizations: 100

Planning Period: Next 50 Years

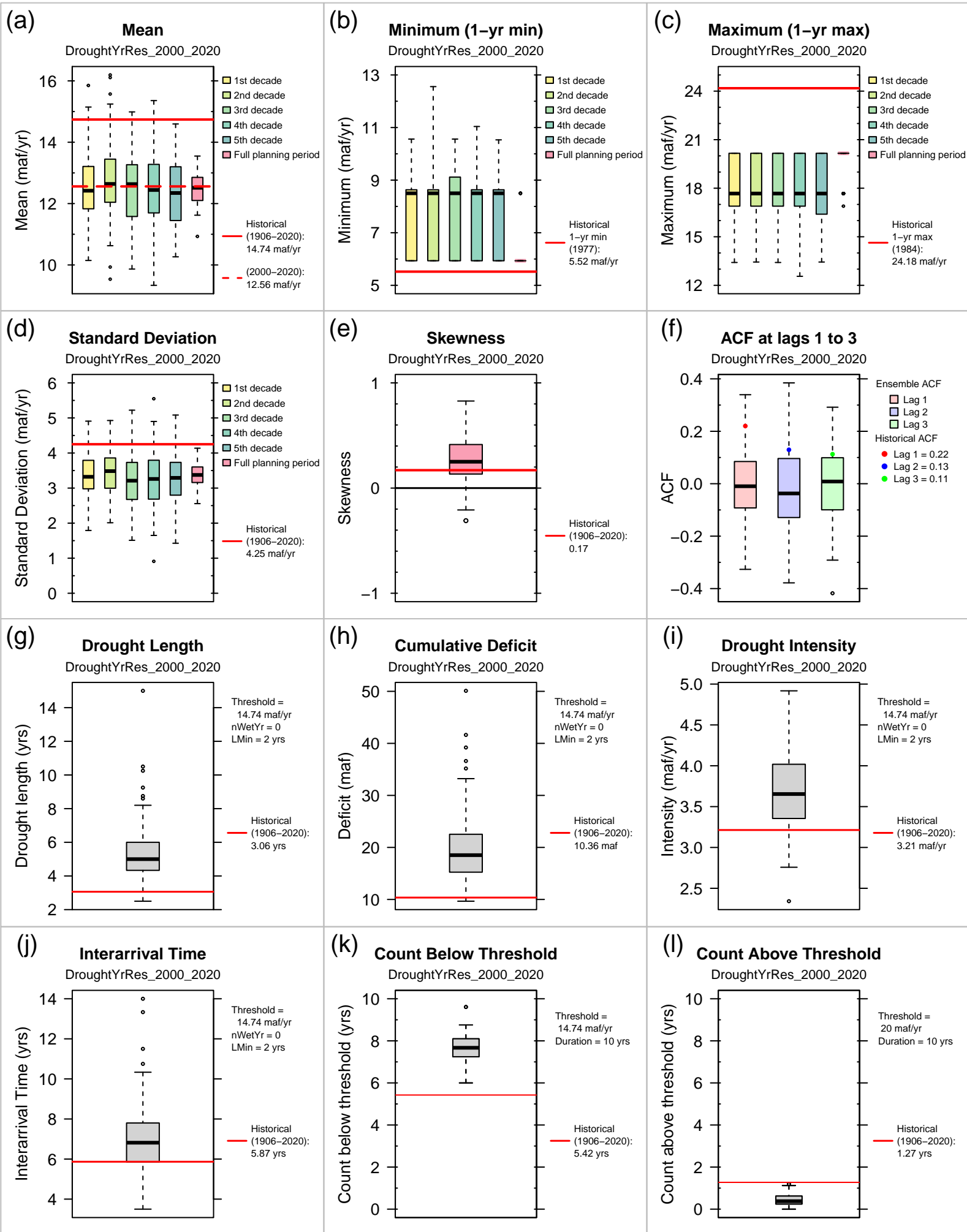
Simulated Annual Natural Flow for the Colorado River at Lees Ferry, Arizona

Ensemble: DroughtYrRes_2000_2020, Number of Realizations: 100



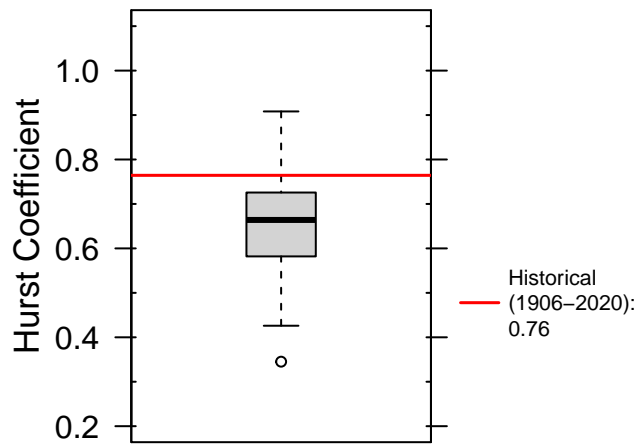
Mann–Kendall Trend Test: $\tau = -0.2$, $P\text{-Value} = 0.0558$

Trend = -0.0055 maf/yr, Not Statistically Significant

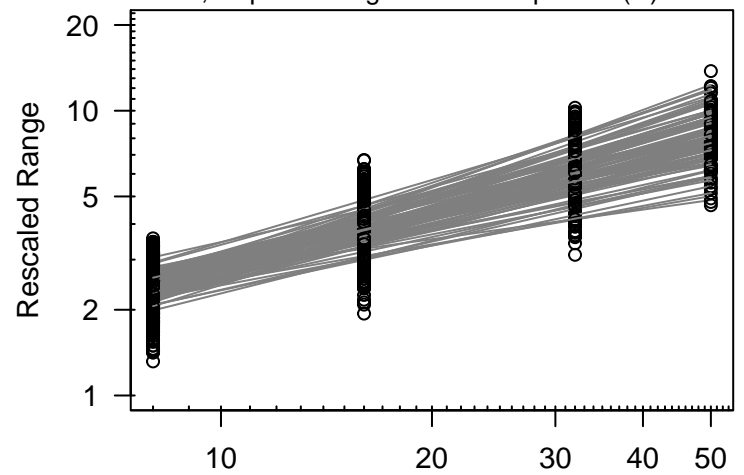


Hurst coefficient

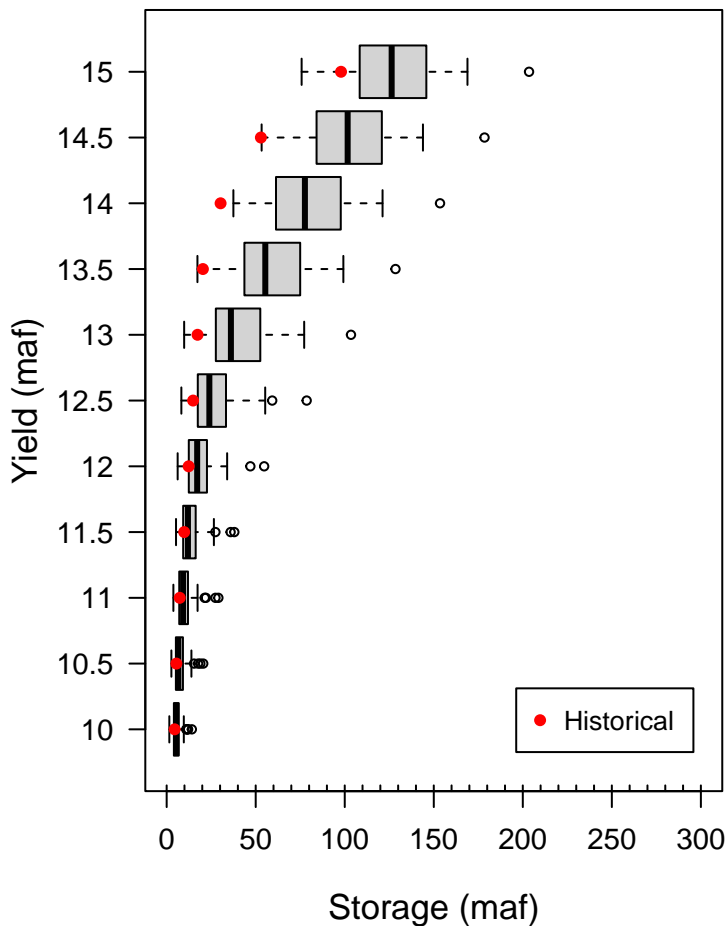
DroughtYrRes_2000_2020



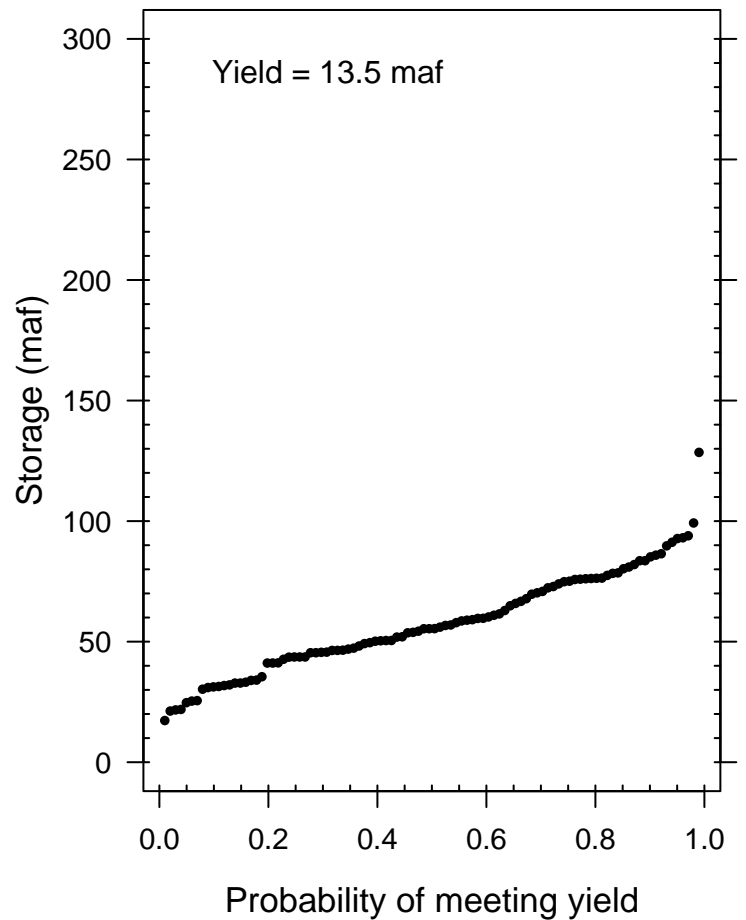
Points for all traces and durations, line for each trace, slope of line gives Hurst exponent (H)



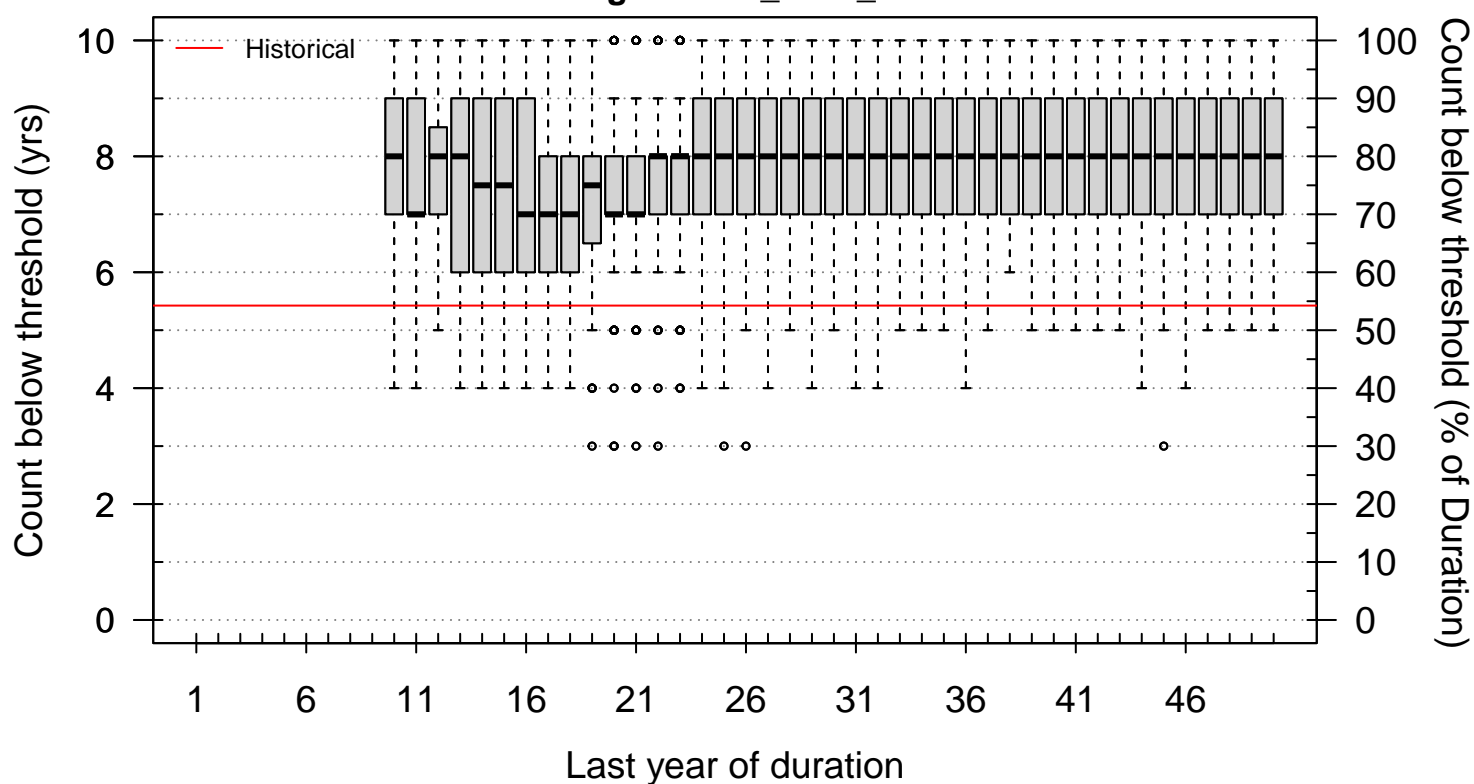
Reservoir Storage-Yield Analysis DroughtYrRes_2000_2020



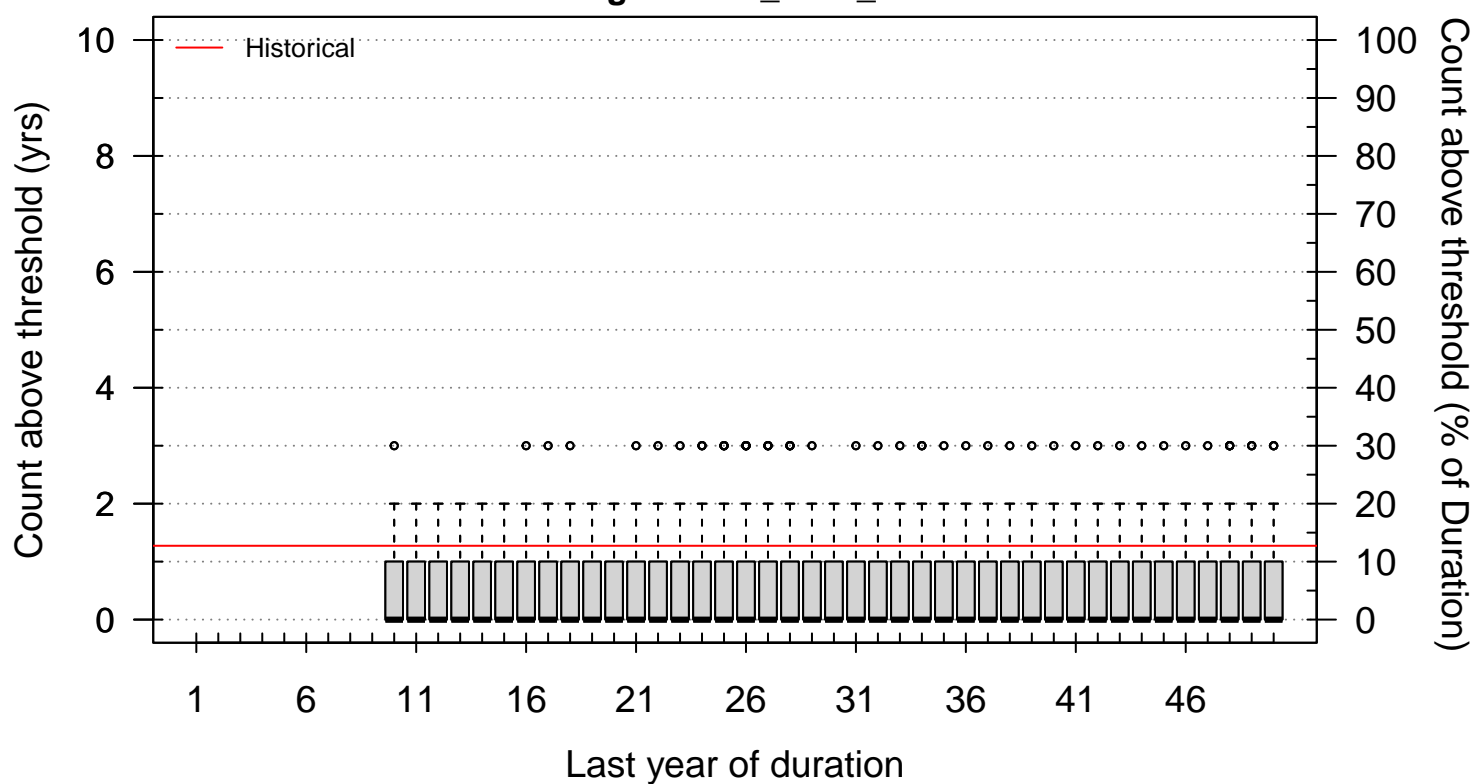
Reservoir Storage Reliability DroughtYrRes_2000_2020



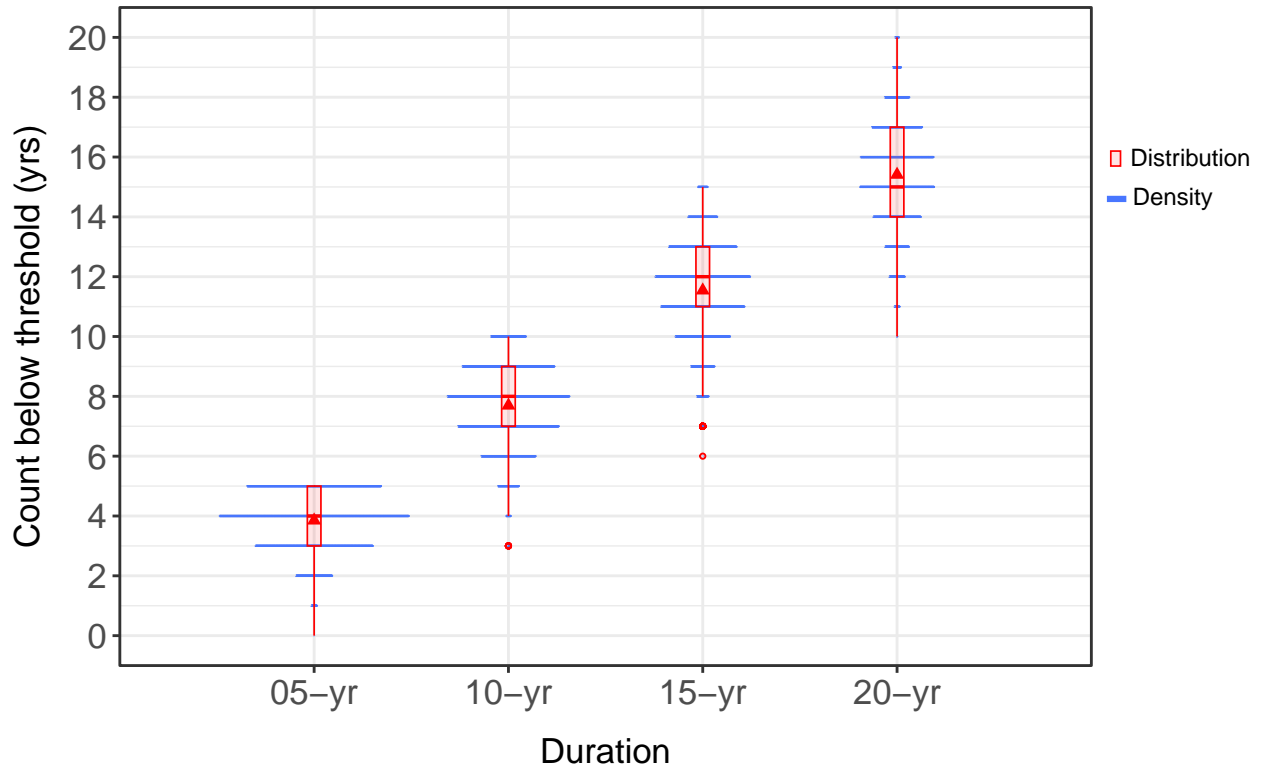
Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
DroughtYrRes_2000_2020



Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
DroughtYrRes_2000_2020



Duration-count analysis (Threshold: 14.74 maf/yr) DroughtYrRes_2000_2020



Duration-Severity Analysis, Ensemble: DroughtYrRes_2000_2020

