

Attributes of Streamflow Ensembles in Colorado River Basin

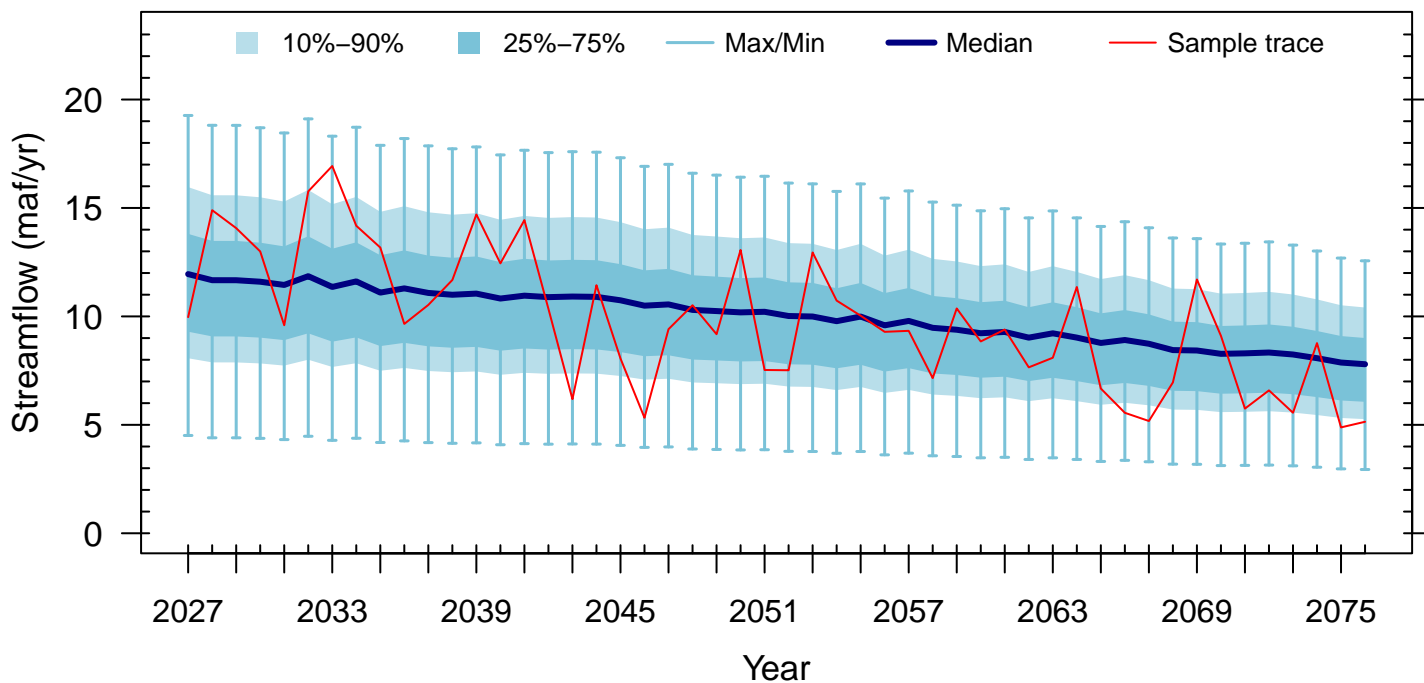
Ensemble: TempAdj_RCP8.5_10%

Number of Realizations: 112

Planning Period: 2027–2076

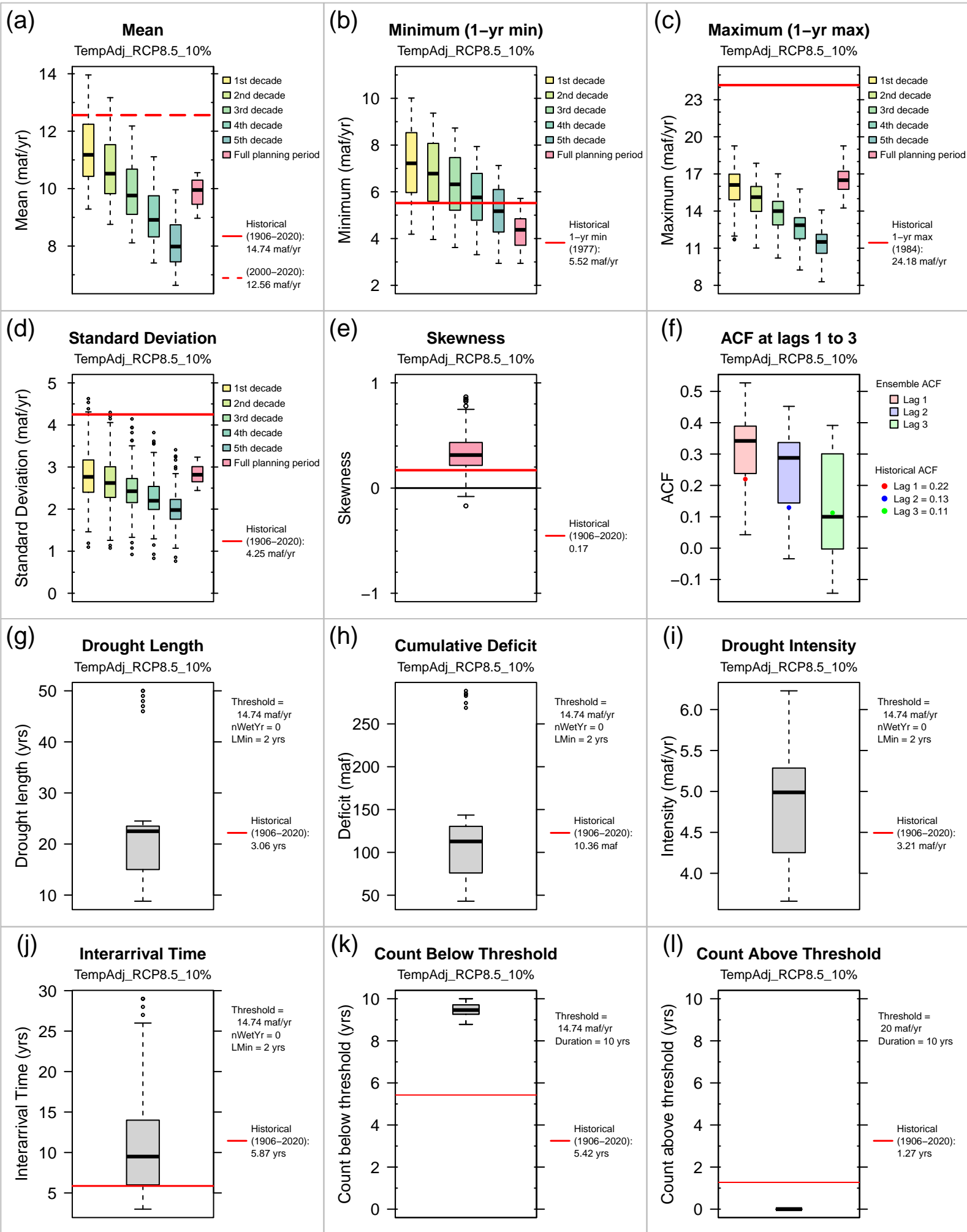
Simulated Annual Natural Flow for the Colorado River at Lees Ferry, Arizona

Ensemble: TempAdj_RCP8.5_10%, Number of Realizations: 112



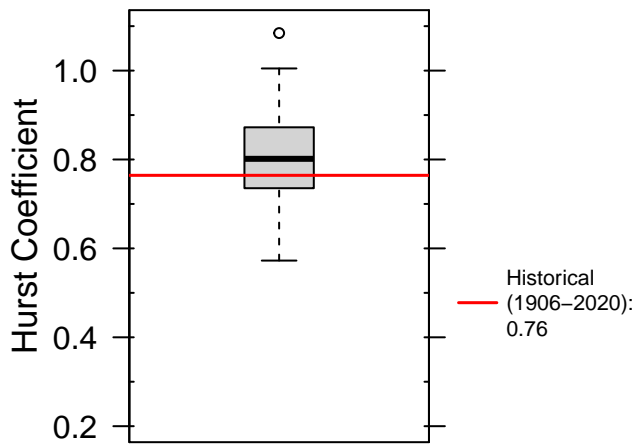
Mann–Kendall Trend Test: $\tau = -0.96$, $P\text{-Value} = 0$

Trend = -0.0825 maf/yr, Statistically Significant

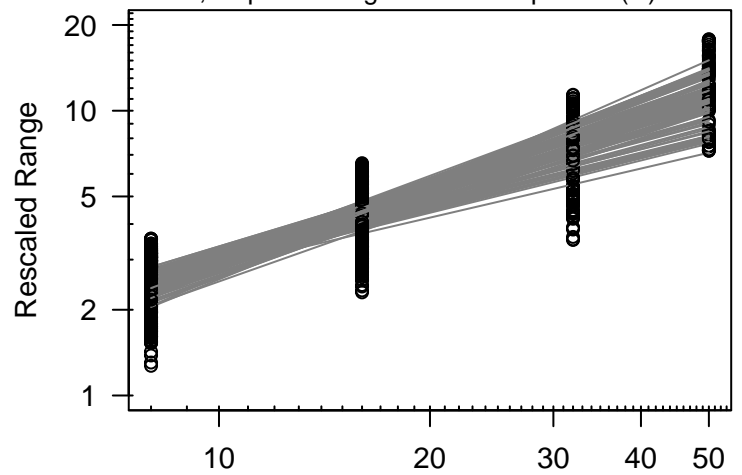


Hurst coefficient

TempAdj_RCP8.5_10%

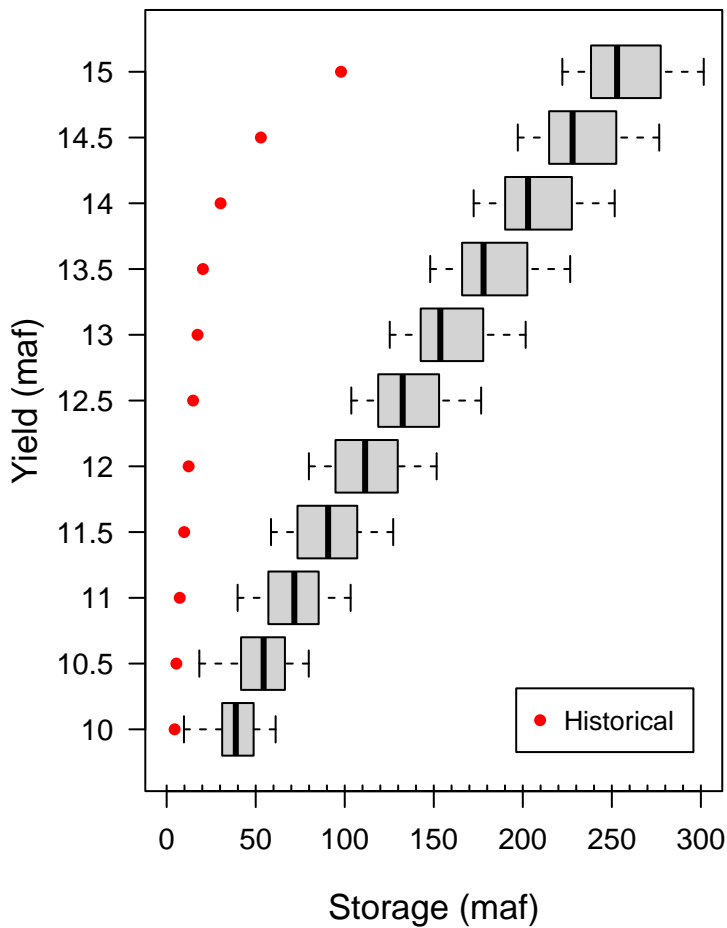


Points for all traces and durations, line for each trace, slope of line gives Hurst exponent (H)



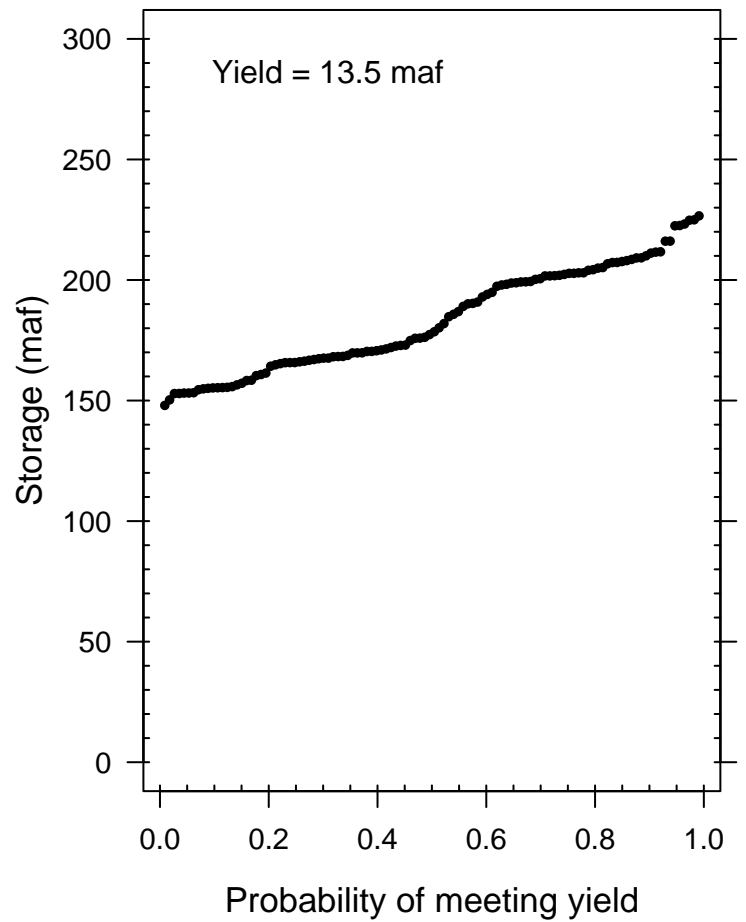
Reservoir Storage–Yield Analysis

TempAdj_RCP8.5_10%

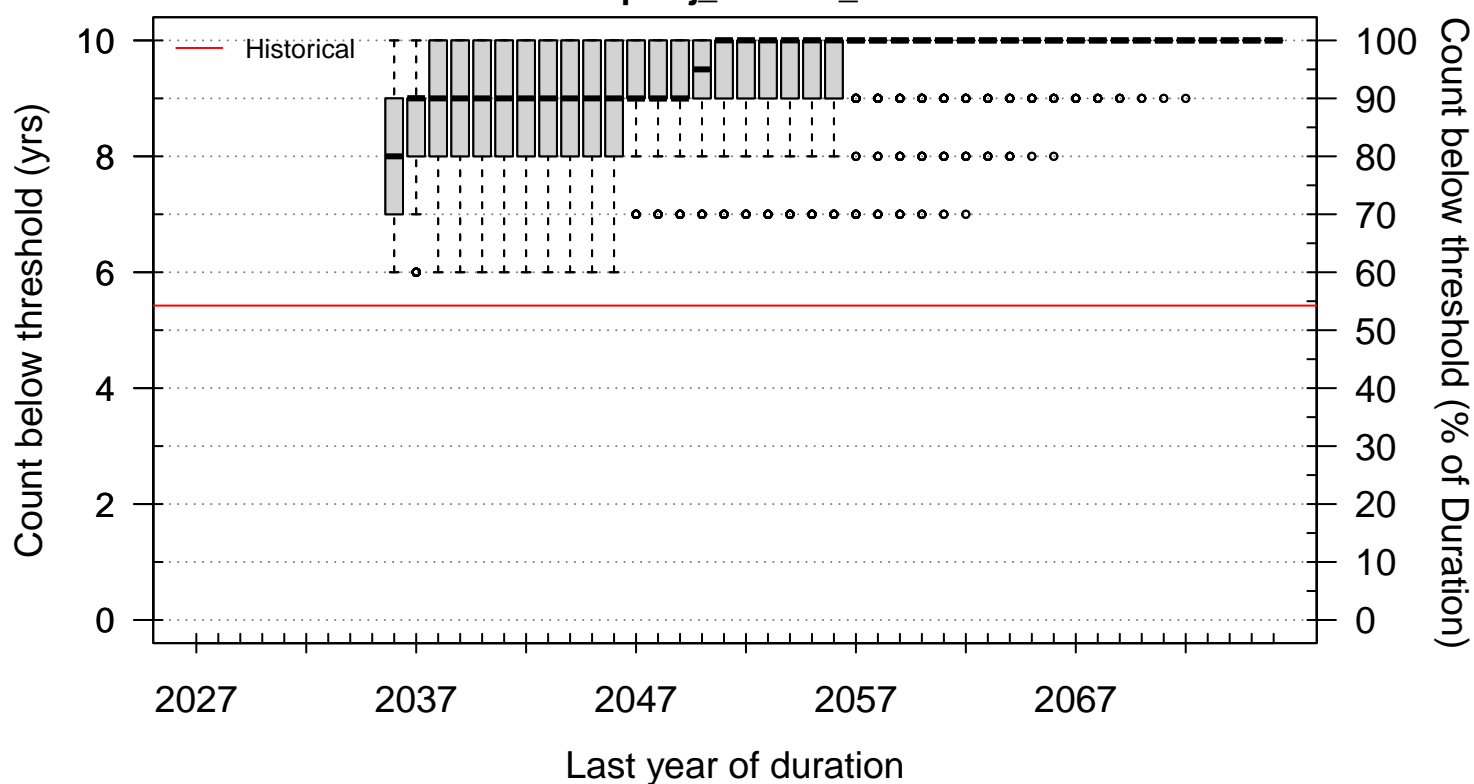


Reservoir Storage Reliability

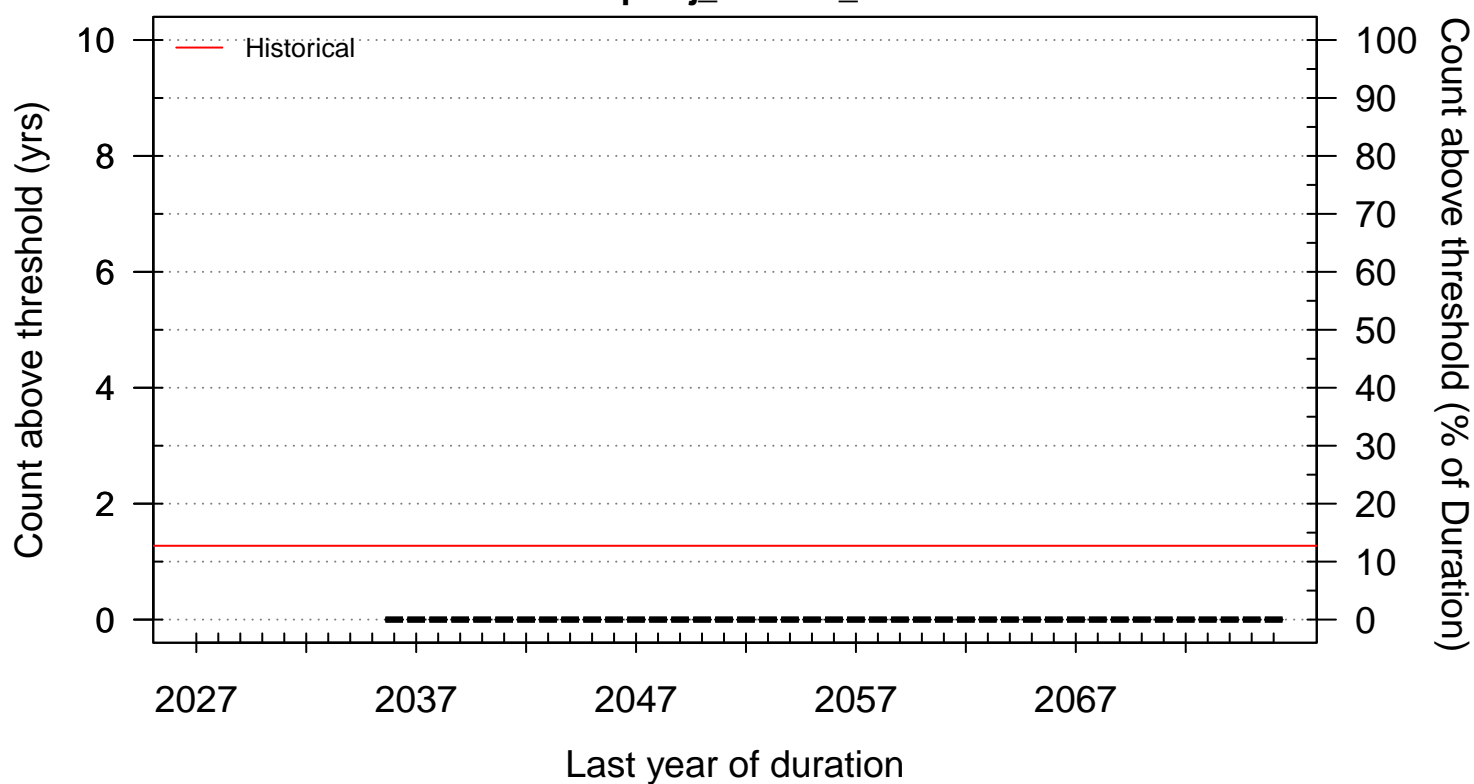
TempAdj_RCP8.5_10%



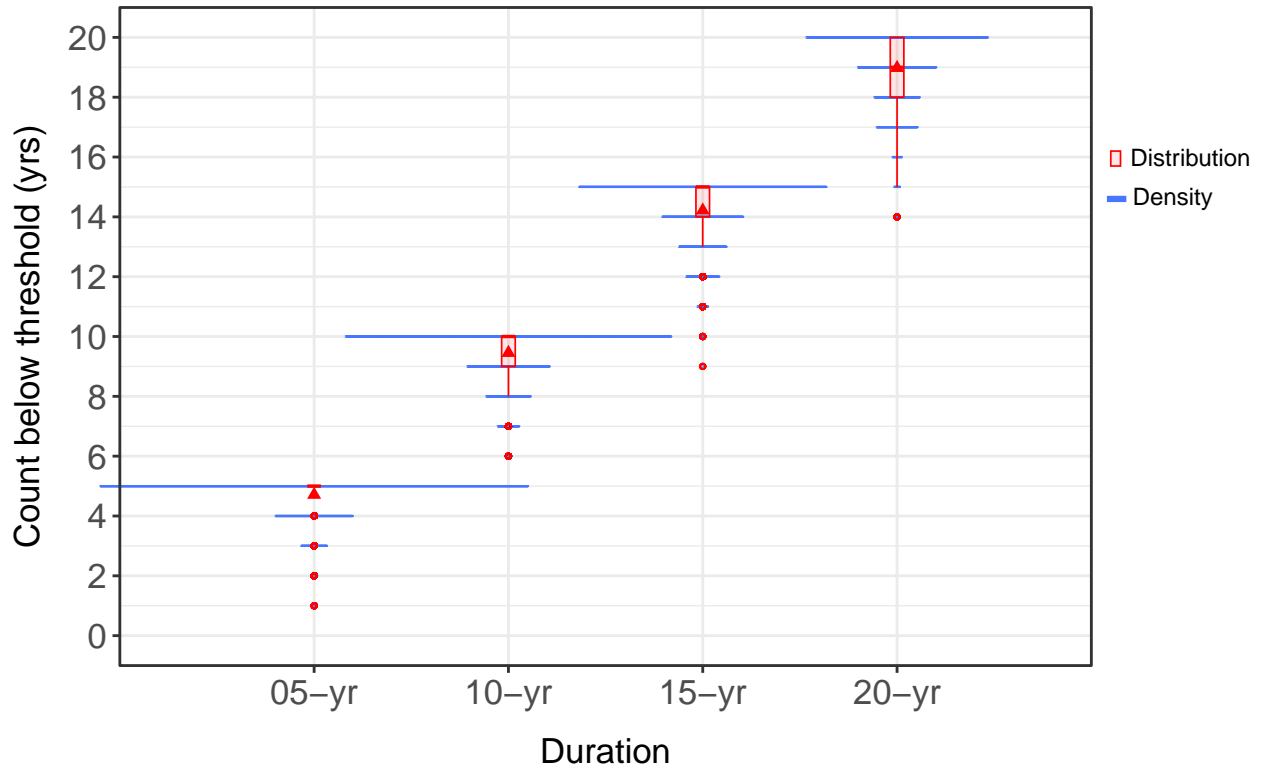
Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
TempAdj_RCP8.5_10%



Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
TempAdj_RCP8.5_10%



Duration-count analysis (Threshold: 14.74 maf/yr) TempAdj_RCP8.5_10%



Duration-Severity Analysis, Ensemble: TempAdj_RCP8.5_10%

