

## Attributes of Streamflow Ensembles in Colorado River Basin

---

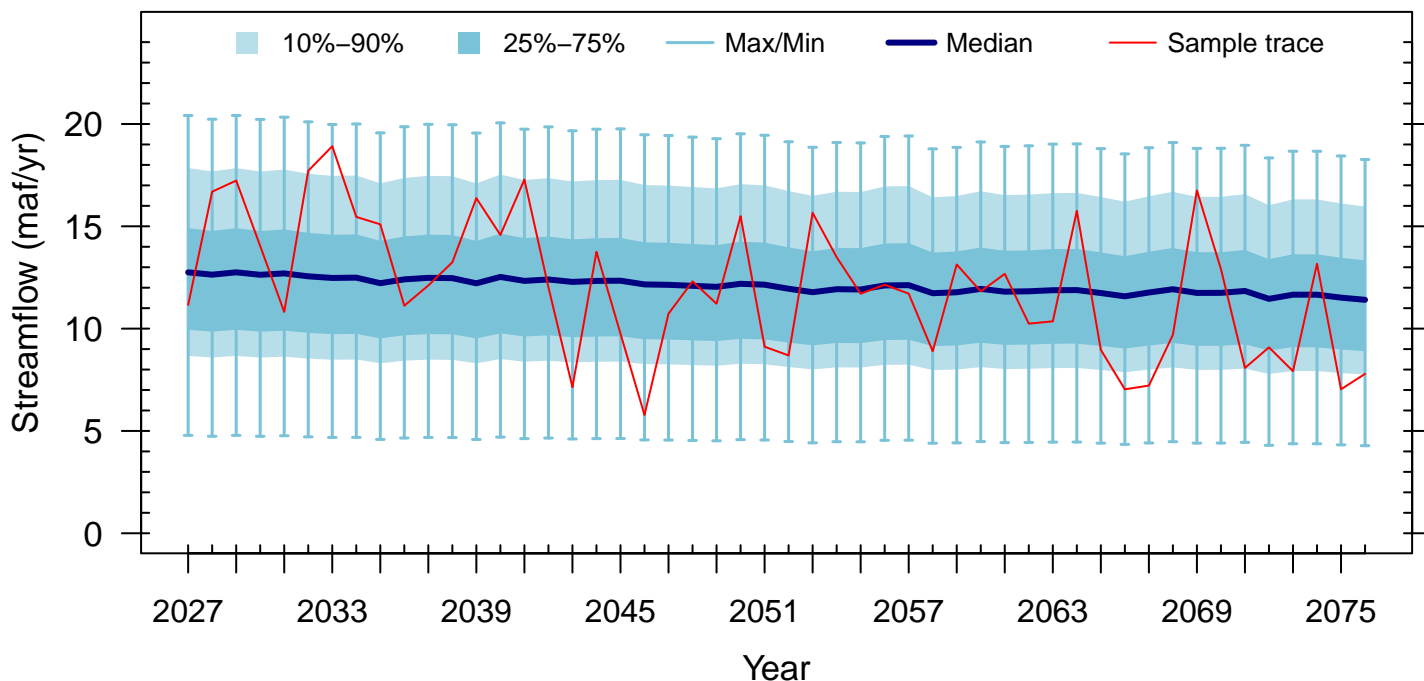
**Ensemble: TempAdj\_RCP4.5\_6.5%**

**Number of Realizations: 112**

**Planning Period: 2027–2076**

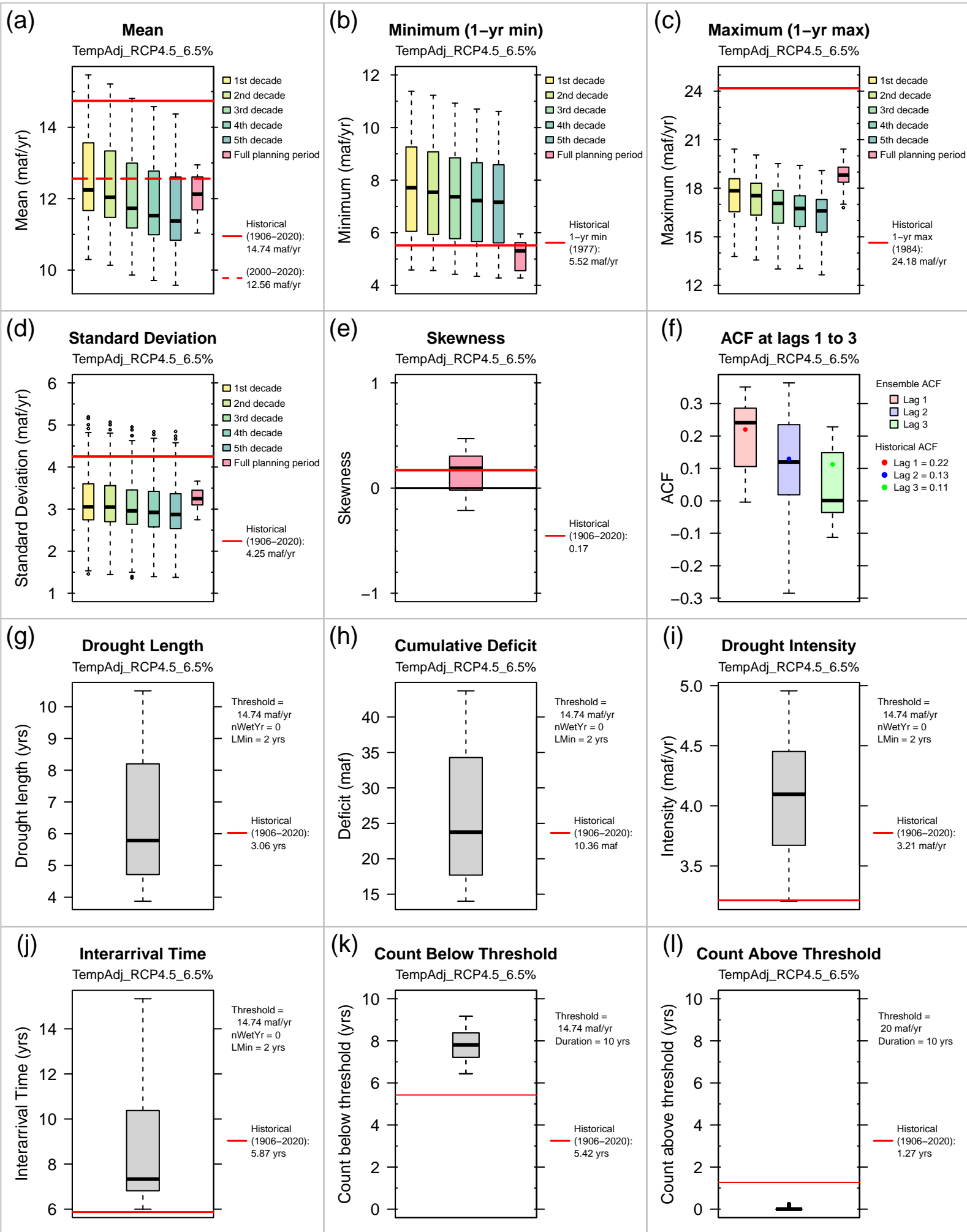
### Simulated Annual Natural Flow for the Colorado River at Lees Ferry, Arizona

Ensemble: TempAdj\_RCP4.5\_6.5%, Number of Realizations: 112



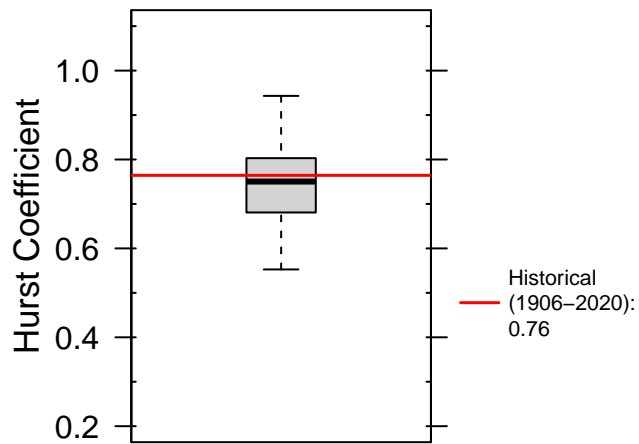
Mann–Kendall Trend Test:  $\tau = -0.81$ ,  $P\text{-Value} = 0$

Trend =  $-0.0234$  maf/yr, Statistically Significant

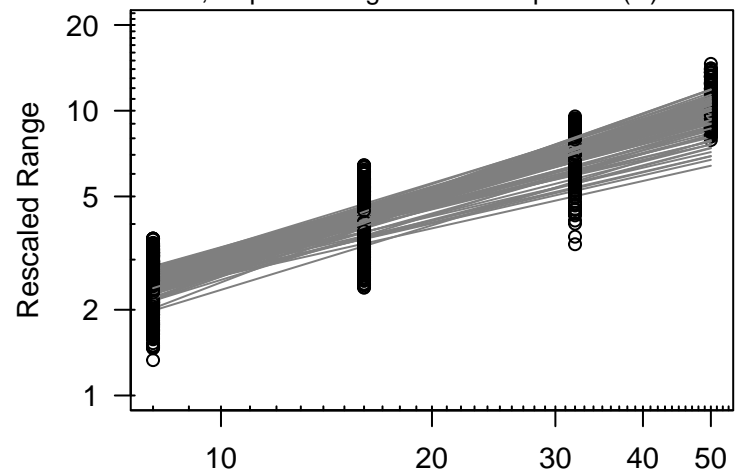


### Hurst coefficient

TempAdj\_RCP4.5\_6.5%

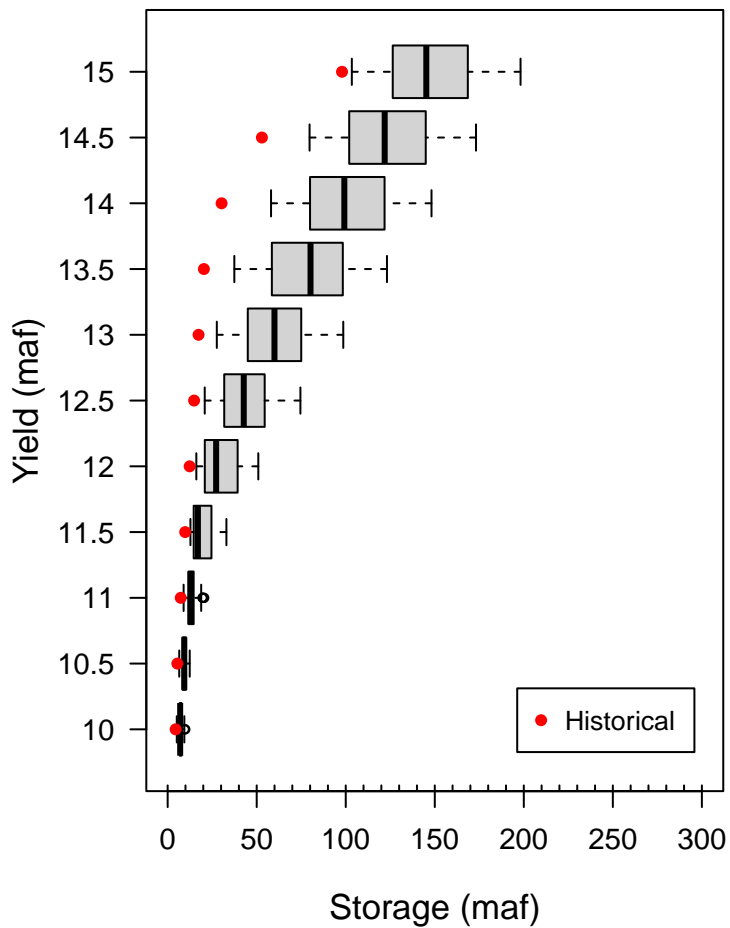


Points for all traces and durations, line for each trace, slope of line gives Hurst exponent (H)



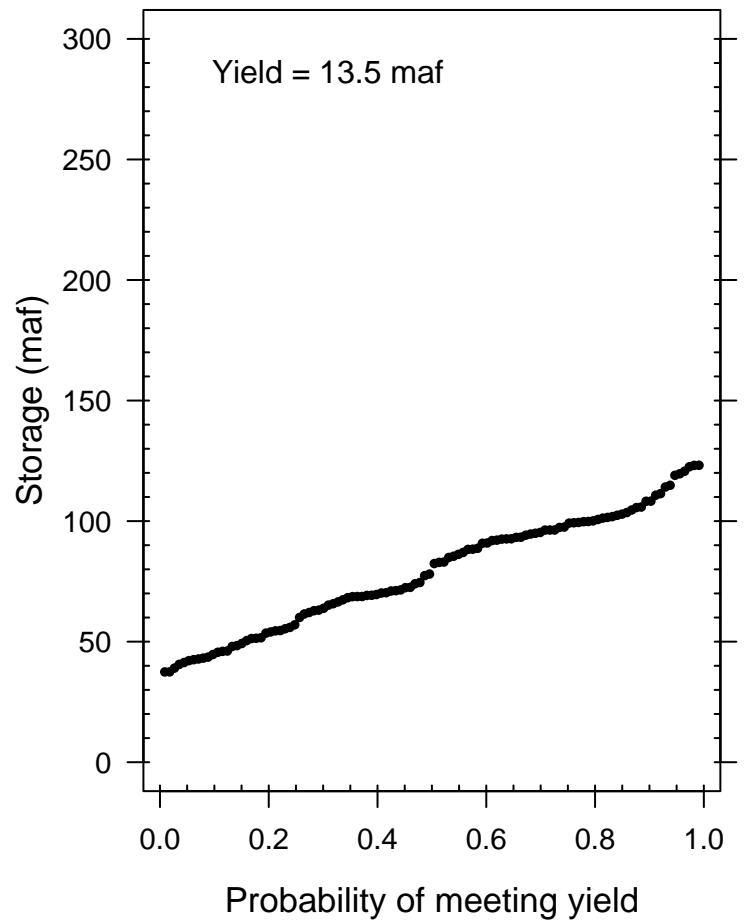
### Reservoir Storage–Yield Analysis

TempAdj\_RCP4.5\_6.5%

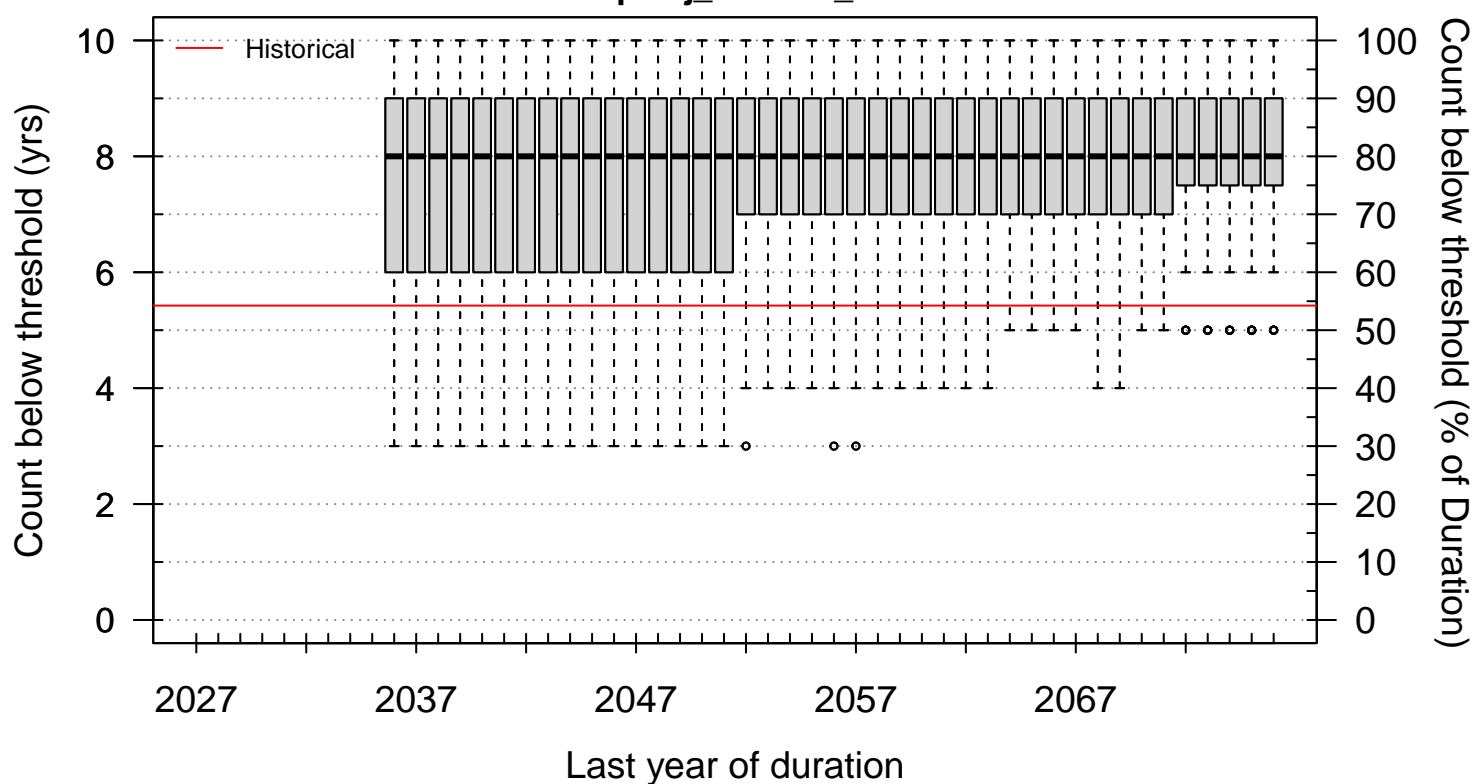


### Reservoir Storage Reliability

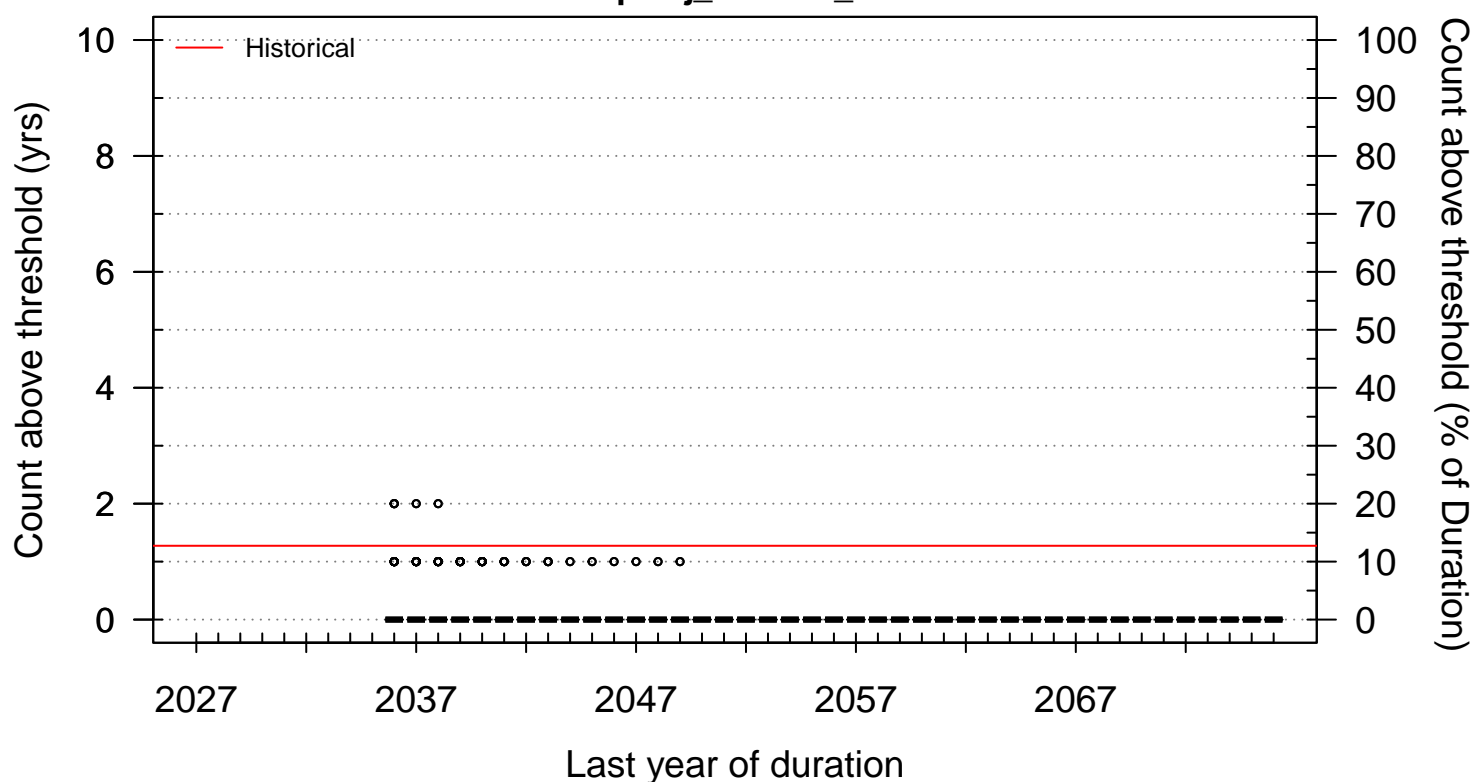
TempAdj\_RCP4.5\_6.5%



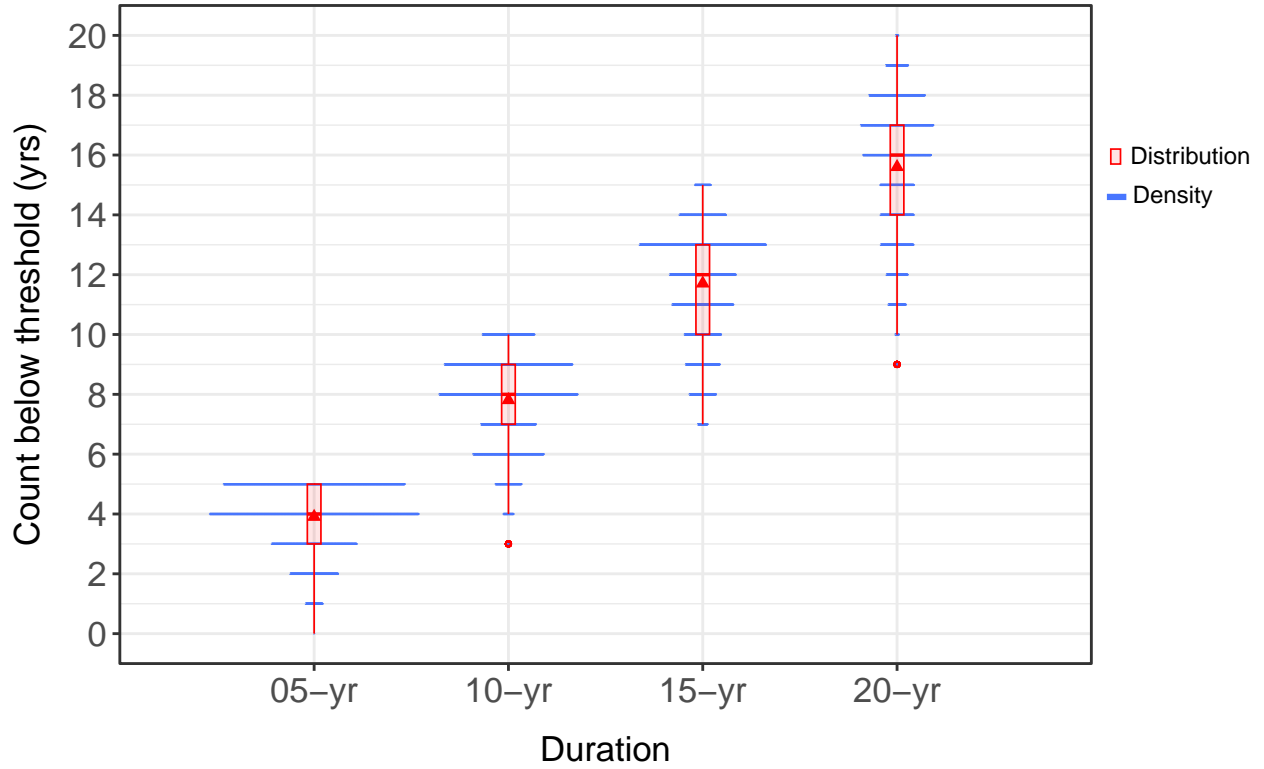
**Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)**  
**TempAdj\_RCP4.5\_6.5%**



**Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)**  
**TempAdj\_RCP4.5\_6.5%**



# Duration-count analysis (Threshold: 14.74 maf/yr) TempAdj\_RCP4.5\_6.5%



## Duration-Severity Analysis, Ensemble: TempAdj\_RCP4.5\_6.5%

