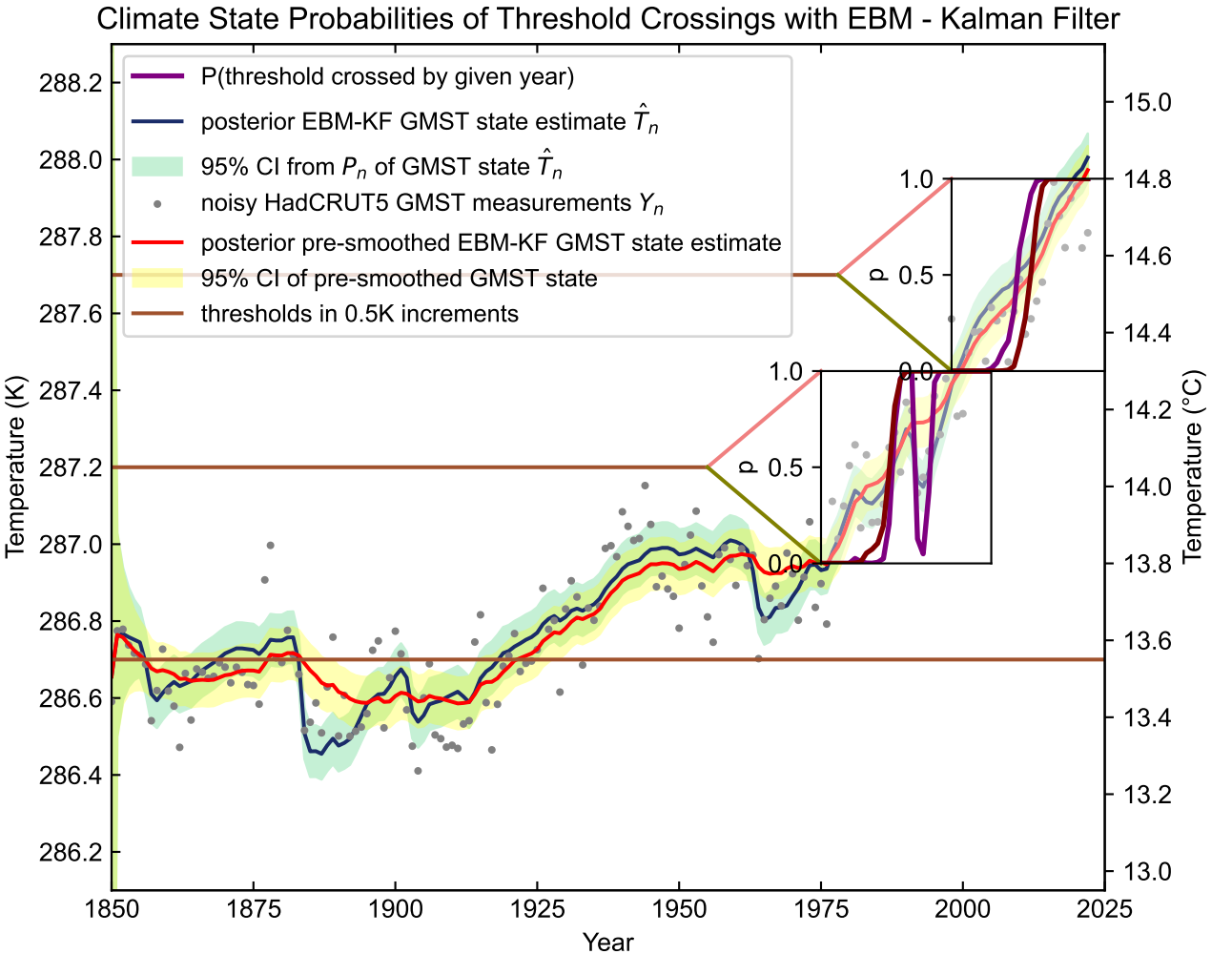
Climate State Probabilities of Threshold Crossings with EBM - Kalman Filter
P(threshold crossed by given year)
posterior EBM-KF GMST state estimate $\hat{T}_n$
95% CI from $P_n$ of GMST state $\hat{T}_n$
noisy HadCRUT5 GMST measurements $Y_n$
posterior pre-smoothed EBM-KF GMST state estimate
95% CI of pre-smoothed GMST state
thresholds in 0.5K increments
Temperature (K)
Temperature (°C)
Year
p
1.0
0.5
0.0
288.2
288.0
287.8
287.6
287.4
287.2
287.0
286.8
286.6
286.4
286.2
15.0
14.8
14.6
14.4
14.2
14.0
13.8
13.6
13.4
13.2
13.0
1850
1875
1900
1925
1950
1975
2000
2025