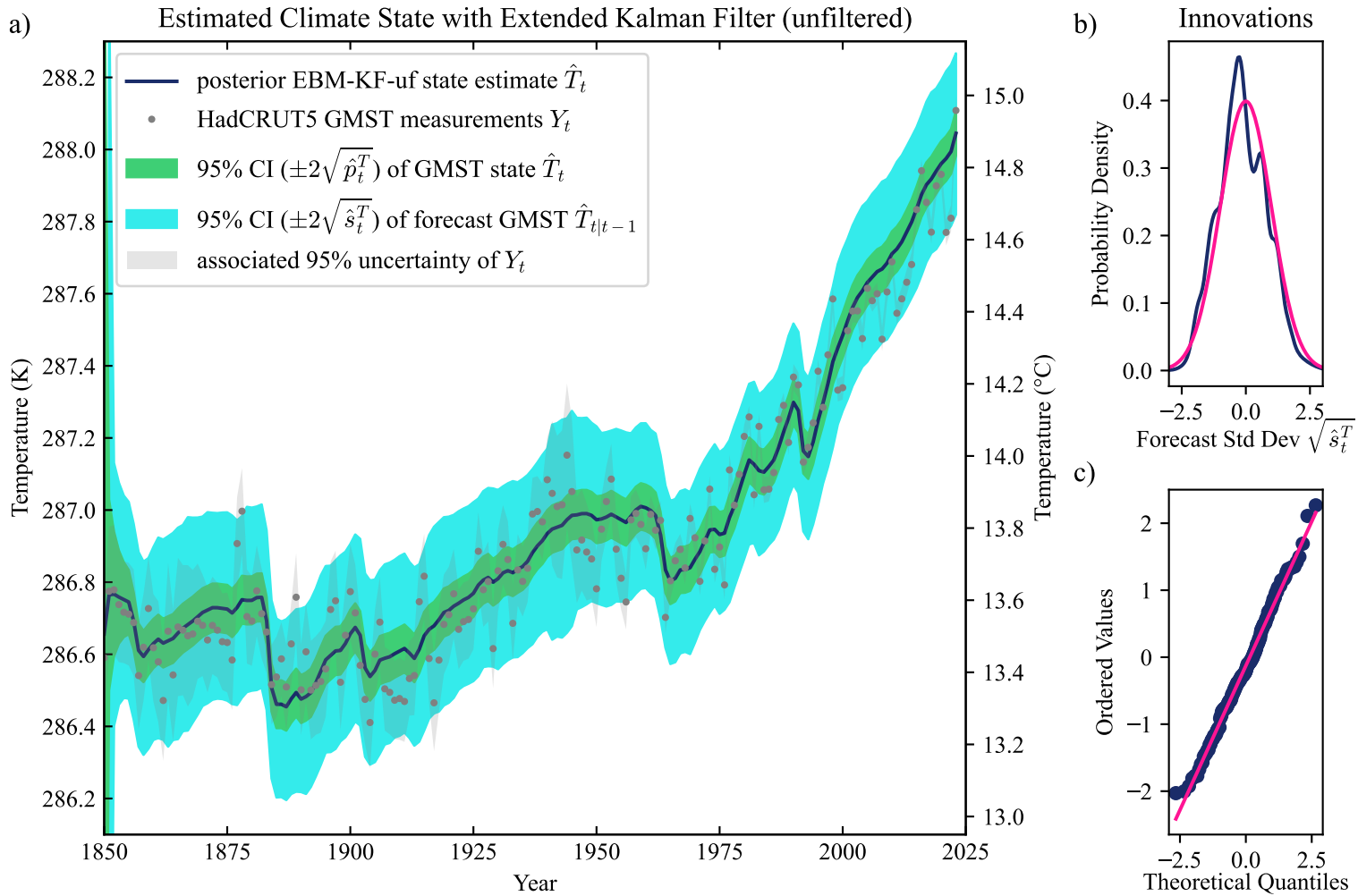
a)
Estimated Climate State with Extended Kalman Filter (unfiltered)
posterior EBM-KF-uf state estimate $\hat{T}_t$
HadCRUT5 GMST measurements Y_t
95% CI ($\pm 2\sqrt{\hat{p}_t^T}$) of GMST state $\hat{T}_t$
95% CI ($\pm 2\sqrt{\hat{s}_t^T}$) of forecast GMST $\hat{T}_{t|t-1}$
associated 95% uncertainty of Y_t
Temperature (K)
Temperature (°C)
Year
b)
Innovations
Probability Density
Forecast Std Dev $\sqrt{\hat{s}_t^T}$
c)
Ordered Values
Theoretical Quantiles