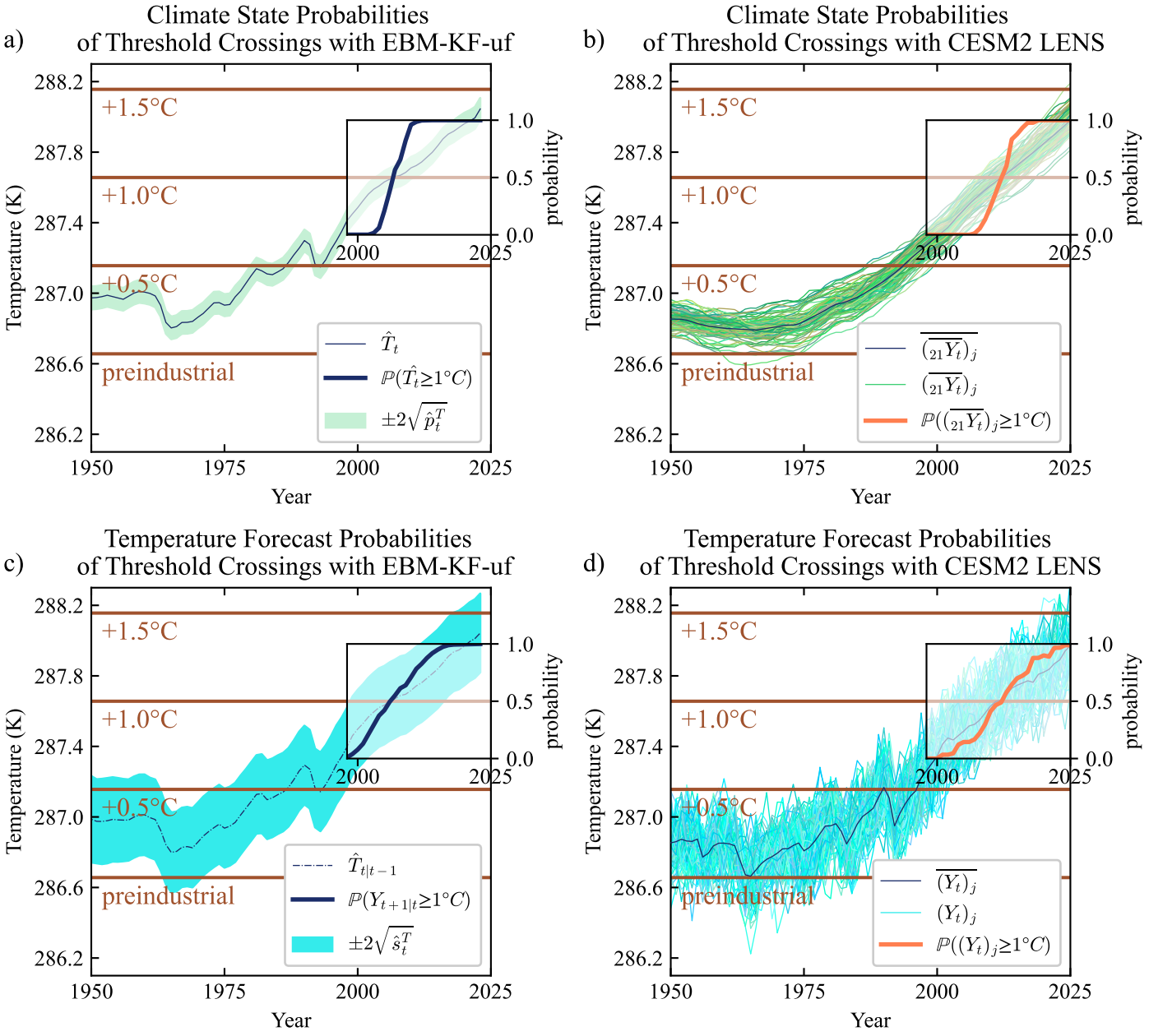
a)
Climate State Probabilities
of Threshold Crossings with EBM-KF-uf
+1.5°C
+1.0°C
+0.5°C
preindustrial
Temperature (K)
probability
Year
$\hat{T}_t$
$\mathbb{P}(\hat{T}_t \geq 1°C)$
$\pm 2\sqrt{\hat{p}_t^T}$
b)
Climate State Probabilities
of Threshold Crossings with CESM2 LENS
$\overline{(_{21}Y_t)_j}$
$(\overline{_{21}Y_t})_j$
$\mathbb{P}((\overline{_{21}Y_t})_j \geq 1°C)$
c)
Temperature Forecast Probabilities
of Threshold Crossings with EBM-KF-uf
$\hat{T}_{t|t-1}$
$\mathbb{P}(Y_{t+1|t} \geq 1°C)$
$\pm 2\sqrt{\hat{s}_t^T}$
d)
Temperature Forecast Probabilities
of Threshold Crossings with CESM2 LENS
$\overline{(Y_t)_j}$
$(Y_t)_j$
$\mathbb{P}((Y_t)_j \geq 1°C)$