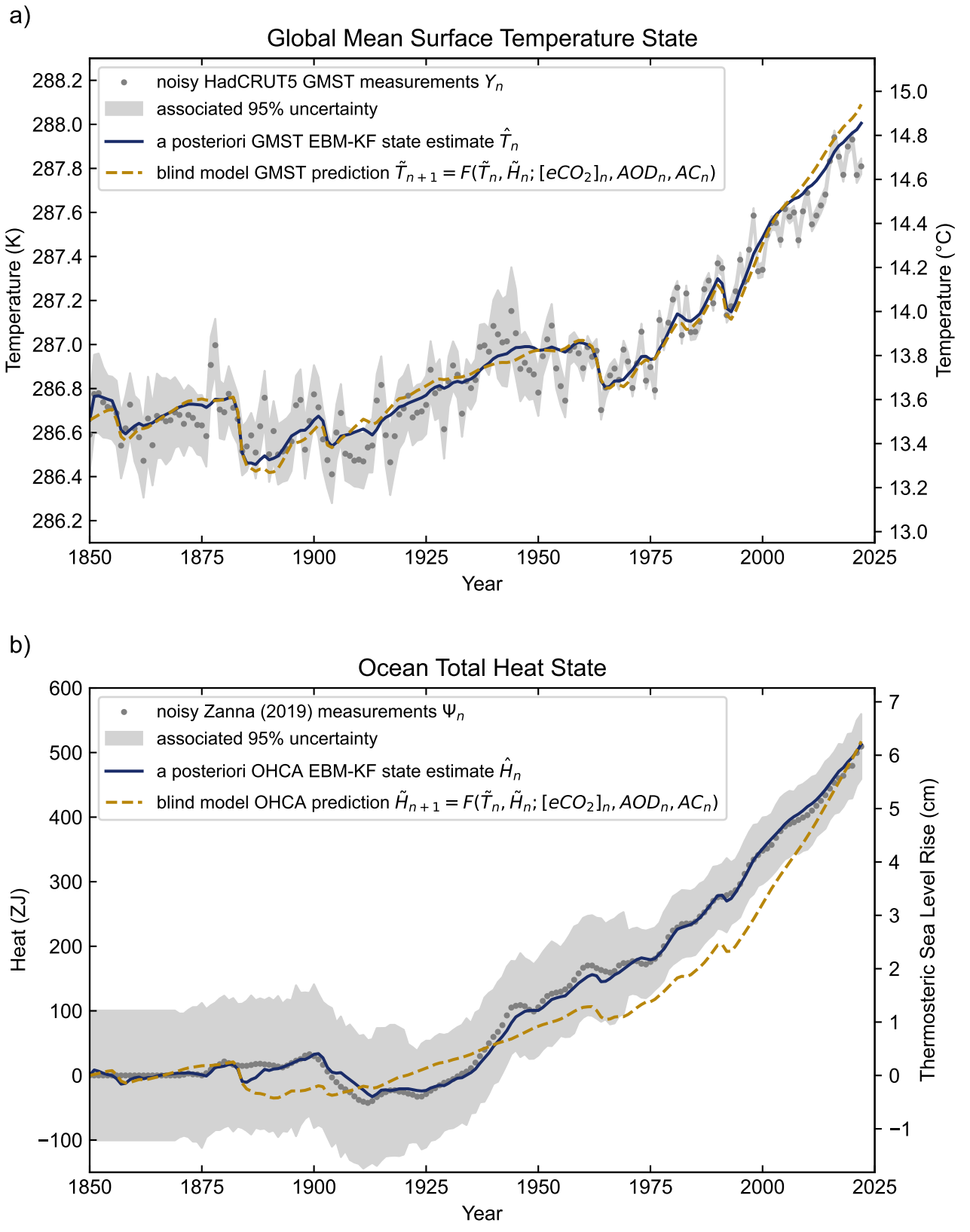
a)
Global Mean Surface Temperature State
noisy HadCRUT5 GMST measurements Y_n
associated 95% uncertainty
a posteriori GMST EBM-KF state estimate $\hat{T}_n$
blind model GMST prediction $\tilde{T}_{n+1} = F(\tilde{T}_n, \tilde{H}_n; [eCO_2]_n, AOD_n, AC_n)$
Temperature (K)
Temperature (°C)
Year
b)
Ocean Total Heat State
noisy Zanna (2019) measurements Ψ_n
associated 95% uncertainty
a posteriori OHCA EBM-KF state estimate $\hat{H}_n$
blind model OHCA prediction $\tilde{H}_{n+1} = F(\tilde{T}_n, \tilde{H}_n; [eCO_2]_n, AOD_n, AC_n)$
Heat (ZJ)
Thermosteric Sea Level Rise (cm)
Year