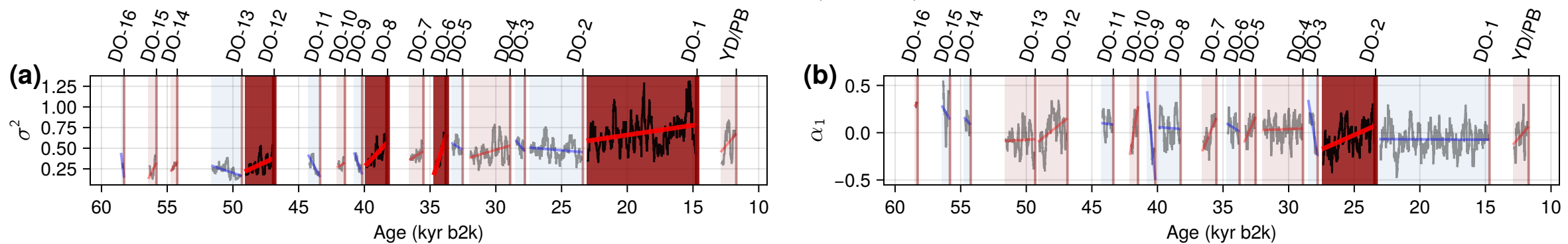


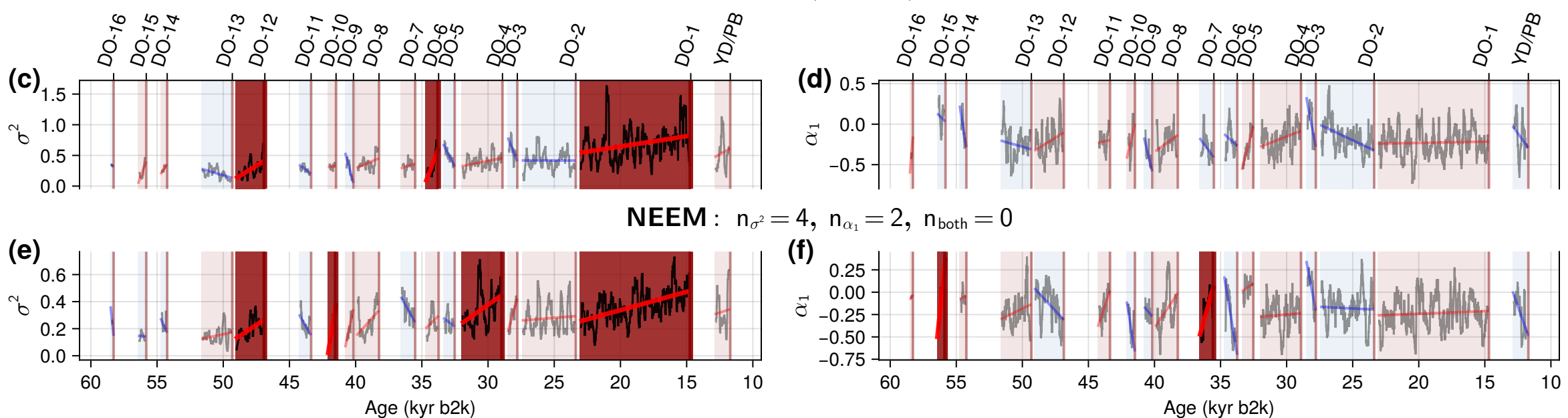
EWS in 100-year high-pass filtered records with 5-year resolution

NGRIP : $n_{\sigma^2} = 4$, $n_{\alpha_1} = 1$, $n_{\text{both}} = 0$

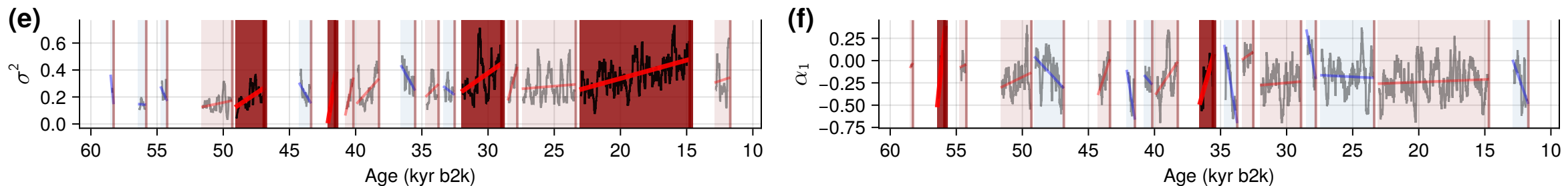


EWS in 100-year high-pass filtered records with 10-year resolution

NGRIP : $n_{\sigma^2} = 3$, $n_{\alpha_1} = 0$, $n_{\text{both}} = 0$

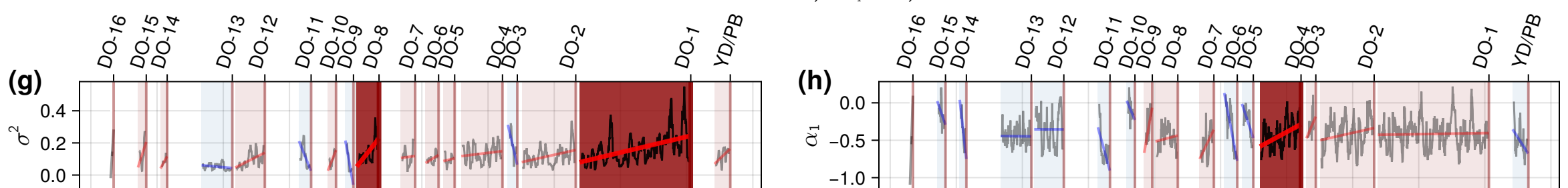


NEEM : $n_{\sigma^2} = 4$, $n_{\alpha_1} = 2$, $n_{\text{both}} = 0$

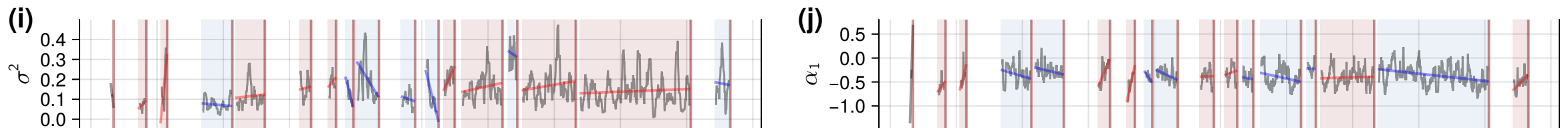


EWS in 100-year high-pass filtered records with 20-year resolution

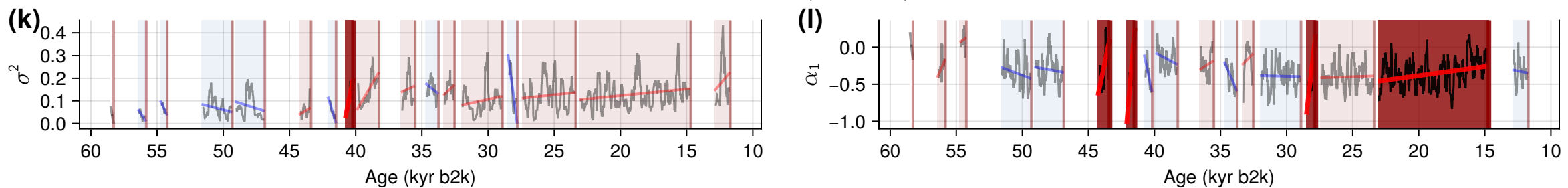
NGRIP : $n_{\sigma^2} = 2$, $n_{\alpha_1} = 1$, $n_{\text{both}} = 0$



GRIP : $n_{\sigma^2} = 0$, $n_{\alpha_1} = 0$, $n_{\text{both}} = 0$



GISP2 : $n_{\sigma^2} = 1$, $n_{\alpha_1} = 4$, $n_{\text{both}} = 0$



— EWS indicator increasing decreasing significantly increasing ($p < 0.05$)