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

NGRIP: $n_{\sigma^2} = 4$, $n_{\alpha_1} = 1$, $n_{both} = 0$ **(a)**_{1.25} **(b)** _{0.5} -1.00 °6 0.75 0.50 0.0 0.25 -0.5 55 50 45 40 35 30 25 20 15 55 50 45 40 35 25 20 60 10 60 15 10 Age (kyr b2k) Age (kyr b2k) EWS in 100-year high-pass filtered records with 10-year resolution **NGRIP**: $n_{\sigma^2} = 3$, $n_{\alpha_1} = 0$, $n_{both} = 0$ $\gamma_{D/PB}$ **(c)**_{1.5} (d) 0.50.0 0.0 **NEEM**: $n_{\sigma^2} = 4$, $n_{\alpha_1} = 2$, $n_{both} = 0$ (e) 0.25 0.6 0.00 4.0 م -0.250.2 -0.50 0.0 -0.75 55 50 45 35 30 25 20 55 50 35 30 25 20 60 40 15 10 60 45 40 15 10 Age (kyr b2k) Age (kyr b2k) EWS in 100-year high-pass filtered records with 20-year resolution **NGRIP**: $n_{\sigma^2} = 2$, $n_{\alpha_1} = 1$, $n_{both} = 0$ YD/PB 00,7 00,6 00,6 (g) (h) 0.4 **GRIP**: $n_{\sigma^2} = 0$, $n_{\alpha_1} = 0$, $n_{both} = 0$ 0.5 -0.4 0.3 $\textbf{GISP2}: \ n_{\sigma^2}\!=\!1, \ n_{\alpha_1}\!=\!4, \ n_{both}\!=\!0$ **(k)**_{0.4} **(I)** 0.0 0.3 0.2 α_1 -0.5 0.1 -1.0 0.0 45 35 55 45 60 55 50 30 25 20 15 60 50 40 35 30 25 20 15 Age (kyr b2k) Age (kyr b2k) EWS indicator significantly increasing (p<0.05) decreasing increasing