EWS in (10-50) year band of NGRIP record with 5-year resolution Boers, 2018: $n_{\hat{w}^2} = 12$, $n_{\hat{H}} = 8$, $n_{both} = 7$ 0.2 **(T** 0.0 0.2 TFTS surrogates on data (Step 1): $n_{\hat{w}^2} = 4$, $n_{\hat{H}} = 2$, $n_{both} = 2$ **(c)**_{0.6} (d) 0.5 -0.4 \checkmark **工** 0.0 No indicator filtering (Step 2.1b): $n_{\hat{w}^2} = 4$, $n_{\hat{H}} = 2$, $n_{both} = 2$ **(e)**_{0.6} **(f)** 0.5 \checkmark **工** 0.0 No indicator smoothing (Step 2.2b): $n_{\hat{w}^2} = 4$, $n_{\hat{H}} = 1$, $n_{both} = 1$ (g)_{2.0} (h) 1.5 ັ<> 1.0 ⟨⊥ 0.5 EWS in entire GS, excluding COI (Step 2.3b): $n_{\hat{w}^2} = 4$, $n_{\hat{H}} = 1$, $n_{both} = 1$ (i) _{2.0} ↓ 1.5 \checkmark **工** 0.5 -2 0.0 CWT on original data (not normed): $n_{\hat{w}^2} = 4$, $n_{\hat{H}} = 1$, $n_{both} = 1$ ⟨⊥ Preprocessing in Julia (Step 3.1): $n_{\hat{w}^2} = 4$, $n_{\hat{H}} = 1$, $n_{both} = 1$ (m) (n) ⟨⊥ Raw ages not rounded (Step 3.2): $n_{\hat{w}^2} = 4$, $n_{\hat{H}} = 1$, $n_{both} = 1$ (o) (p) **√ ⊥** -2 60 55 50 35 30 25 20 15 60 55 50 40 35 30 25 20 45 40 10 45 15 Age (kyr b2k) Age (kyr b2k) significantly increasing (p<0.05) - EWS indicator decreasing increasing