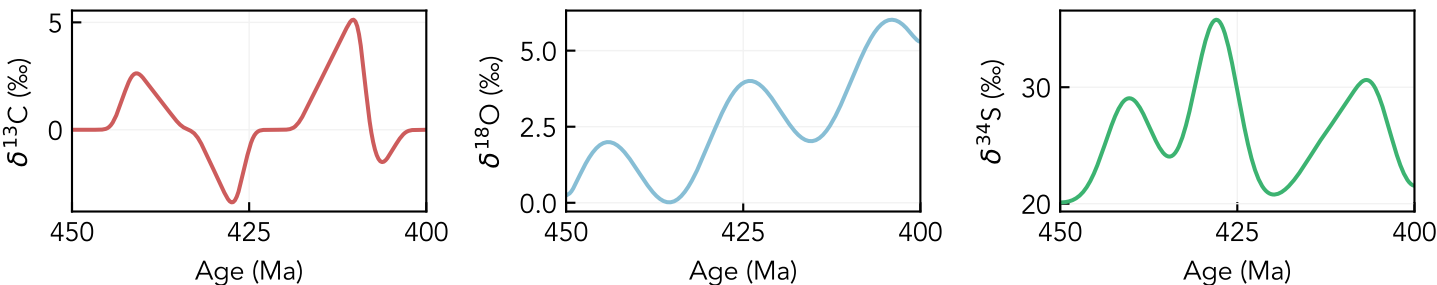
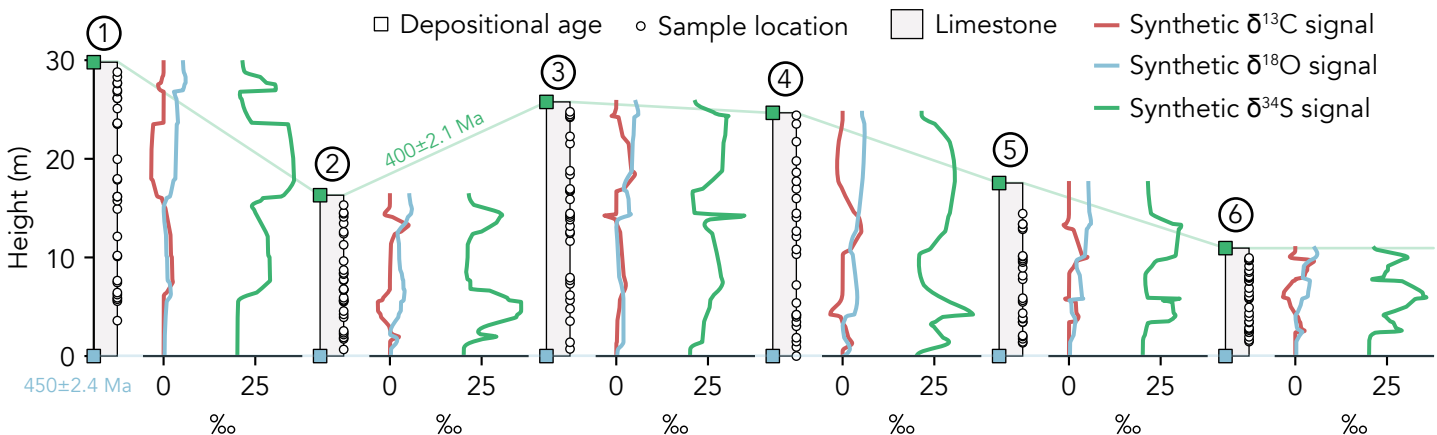


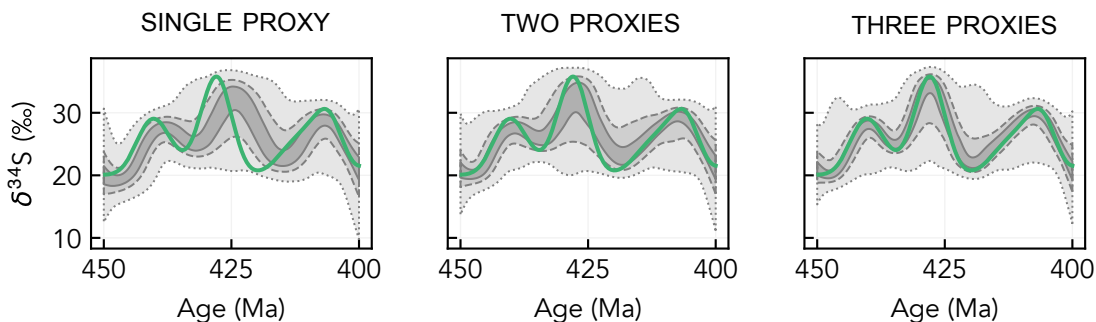
(a) SYNTHETIC PROXY SIGNALS



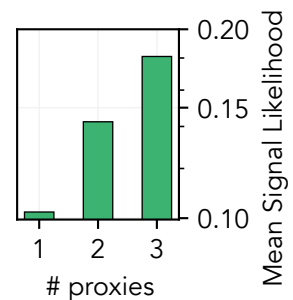
(b) INPUTS: OBSERVATIONS AND AGE CONSTRAINTS



(c) EXAMPLE OUTPUTS: $\delta^{34}\text{S}$ INFERENCE



(d) QUANTIFYING MODEL PERFORMANCE



..... 95% envelope --- 66% envelope — 33% envelope — Synthetic signal