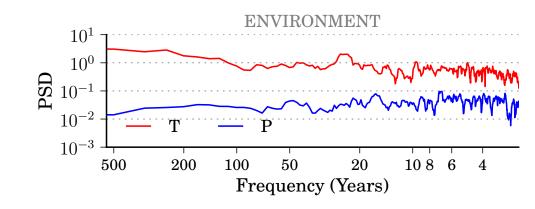
PROXY SYSTEM MODEL: SPELEOTHEM δ¹⁸O

Simulated MTM Spectra for each transformation, Hidden Cave, NM

INPUTS:

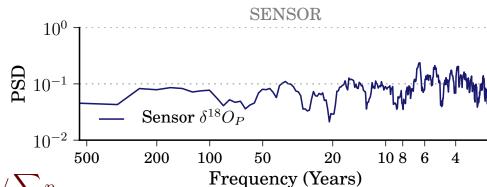
temperature precipitation water isotopes



P, T, $\delta^{18}O_{P}$

SENSOR:

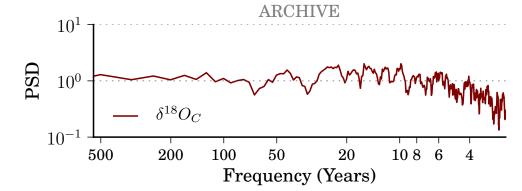
precipitation weighting karst effects (τ)



$$f(t) = \delta^{18} O_{\text{CALCITE}} = \sum_{\tau} p \cdot \delta^{18} O / \sum_{\tau} p$$
$$g(t) = H(t) \frac{1}{\tau} e^{-1/\tau}, h(t) = g * f$$

ARCHIVE:

accumulation rate ~ layer depth



OBSERVATION:

tie-point dating isotope analysis

Bchron

