Data format:

Age: Absolute ages are given relative to the Geological Time Scale 2020 (Gradstein et al. 2020)

Paleolatitude Paleolatitudes calculated using PALEOMAP reconstructions of Scotese & Wright (2018)

Climate zones tropical = ±10°, tropical/subtropical = 10 to 35°, temperate = 35 to 50°, subpolar/polar = > 50°

δ¹⁸O Oxygen isotope values of calcite/aragonite and apatite as reported in original publication. Values for calcite/aragonite and apatite are given in ‰ relative to VPDB and VSMOW, respectively.

select δ¹⁸O Calcite and aragonite δ¹⁸O values for samples with metadata (trace elements, cathodoluminescence) documenting preservation of primary signatures.

Apatite δ¹⁸O values corrected to NBS120c = 21.7‰ VSMOW using the values reported for NBS120c from the publications. SIMS δ¹⁸O values were corrected by -0.6‰ to account for the difference in δ¹⁸O of apatite oxygen (PO₄³⁻, CO₃²⁻ and OH) measured by SIMS (secondary ion mass spectrometry) and apatite PO₄³⁻ oxygen measured by IRMS (isotope ratio mass spectrometry).

......more to come