

## **Comparing Plio-Pleistocene foraminiferal clumped isotope temperature reconstructions with TEX86, Mg/Ca and UK37 proxy data**

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The carbonate clumped isotope thermometer applied on foraminifera is a promising tool for paleoceanographic reconstructions, however large sample size requirements have so far limited the number of available datasets. Over the last years the method has seen significant improvements. We discuss advances in standard correction procedures that can lead to a significant reduction of the error of clumped isotope derived temperatures. These and other improvements will open the way for a wider application of the methodology in paleoceanographic studies. Even though a couple of studies have applied foraminiferal clumped isotopes to reconstruct past temperatures, to date almost no study applied clumped isotopes in a multi-proxy context yet, directly comparing clumped isotope based temperatures with other temperature proxy data (Mg/Ca, Uk37, TEX86) from the same core material. We present data from Plio-Pleistocene from various locations and discuss potential reason for inter-proxy discrepancies.