

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: U-Th dating results for 4 speleothems.

File name: Supplementary Data 2

Description: $\delta^{18}\text{O}$ time-series for 5 speleothem records.

File name: Supplementary Data 3

Description: Data of the main figures showed in the main text, including the data from referenced papers.

File name: Supplementary Code 1

Description: The "Mean-fitting" algorithm used to determine the event amplitudes.