

Description of Additional Supplementary Files

File name: Supplementary Dataset 1

Description: The accompanying R code (created in RStudio version 3.6.3) computes synthetic zircon age populations from the thermal output and calculates the 2σ zircon age spans with 95% confidence interval. The zircon saturation range and the number of synthetic zircon analyses can be specified in the code."

File name: Supplementary Dataset 2

Description: Thermal model outputs (T-t histories). Each column records the T evolution of a particular position in the magma reservoir. The first column shows the time progression in seconds. All .txt files represent 1.5 Ma injection episodes.