

## Quantification of excess $^{231}\text{Pa}$ in late Quaternary igneous baddeleyite

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### Supplementary figures

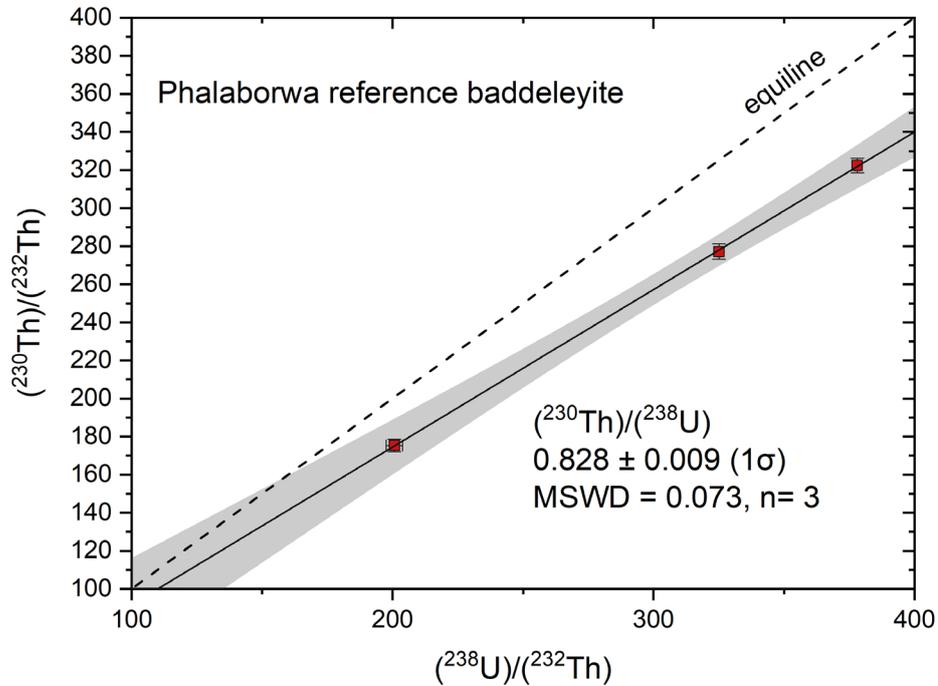


Figure 8. U/Th isochron diagram of Phalaborwa reference baddeleyite obtained by SIMS. Data points plotted with uncorrected  $(^{230}\text{Th})/(^{238}\text{U})$  ratios. All uncertainties plotted and stated as  $1\sigma$ .



Figure 9. Optical image of euhedral baddeleyite (3 mm) from the San Vito Quarry, Ercolano (Campania, Italy).



Figure 10. Proximal deposits of Pomice di Avellino exposed in the San Vito Quarry, Ercolano.

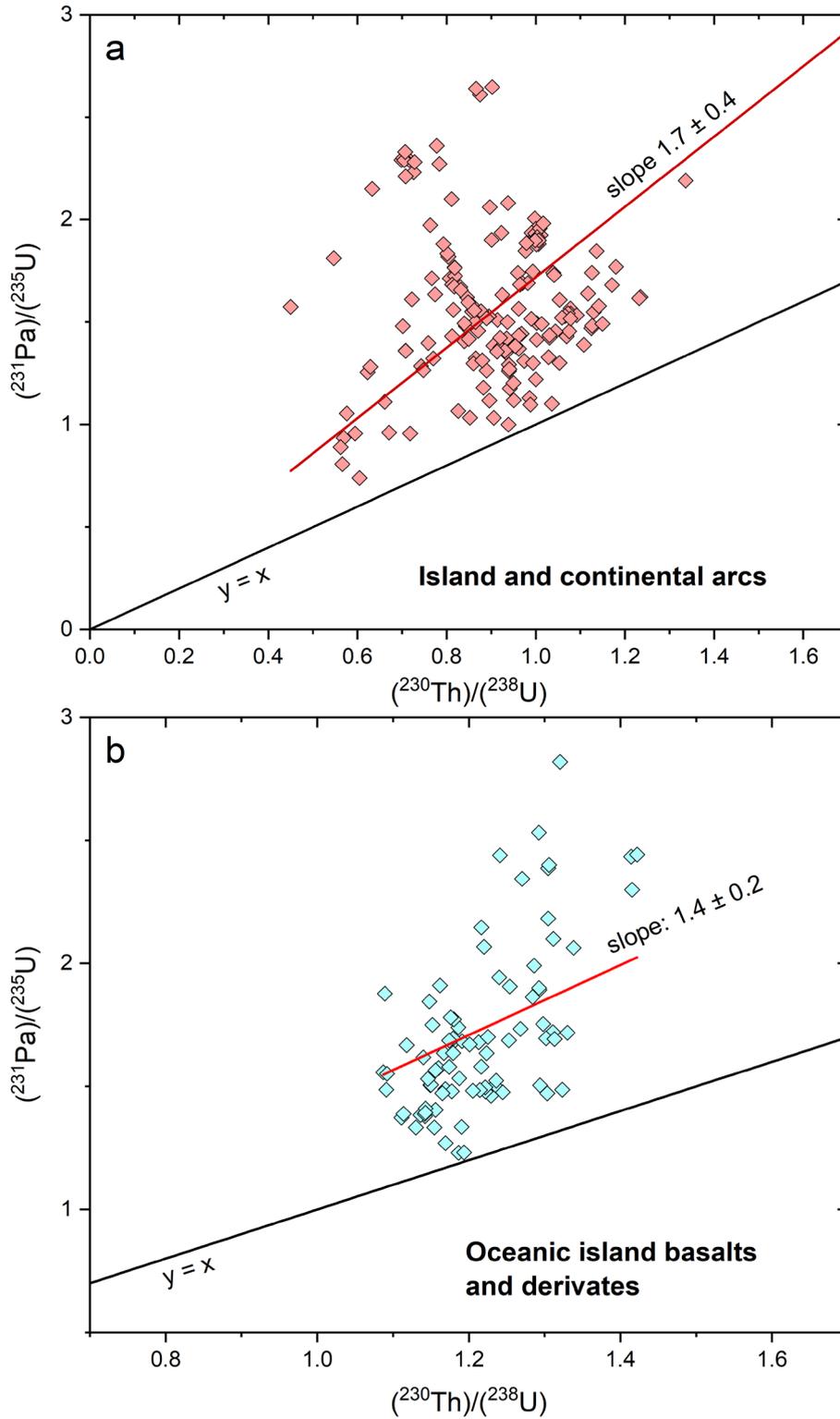


Figure 11. Global compilations of  $(^{231}\text{Pa})/(^{235}\text{U})_0$  vs.  $(^{230}\text{Th})/(^{238}\text{U})_0$  for a) young volcanic rocks from island and continental arcs (Huang et al. 2016, and references therein), and b) recent ocean island basalts and their derivatives (Prytulak et al. 2014, and references therein).