



Supplement S3. A) The juxtaposition of ages of zircon cores and mantles in the studied sample. Plot contains only analyses that may be unequivocally assigned to core or mantle of the zircon and are less than  $\pm 5\%$  discordant. B) REE concentration in zircon apparent cores and mantles (normalised to chondrites; King et al., 2020). All data from Carter et al., 2023