

Fig. S1 Simplified geological map of large-scale structures of the East Pilbara Granite–Greenstone Terrane. The area in the rectangle corresponds to Fig. 2 . WPGGT: West Pilbara Granite–Greenstone Terrane. Modified after Van Kranendonk et al. (2002).

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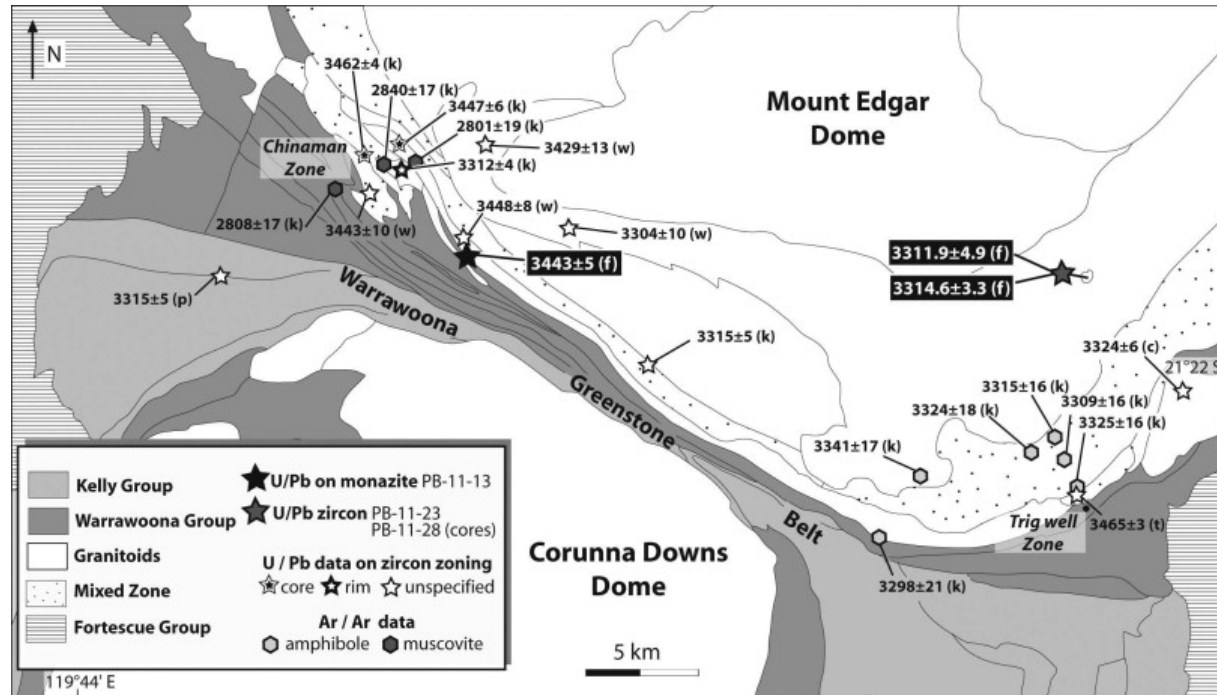


Fig. S2 Compilation of U/Pb and Ar/Ar data: (p) Pidgeon (1978); (w) Williams and Collins (1990); (t) Thorpe et al. (1992); (c) Collins et al. 1998; (k) Kloppenburg (2003); (f) this study.

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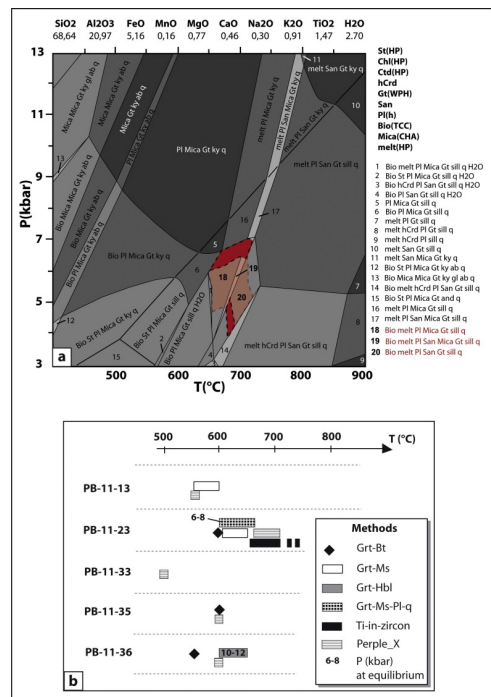


Fig. S3 (a) Perple_X pseudosection for sample PB-11-23. H₂O amount estimated with xH₂O vs T diagram. In red, isopleth intersections of garnet, biotite, plagioclase and muscovite. (b) Summary of temperature and pressure obtained with various thermobarometric methods.

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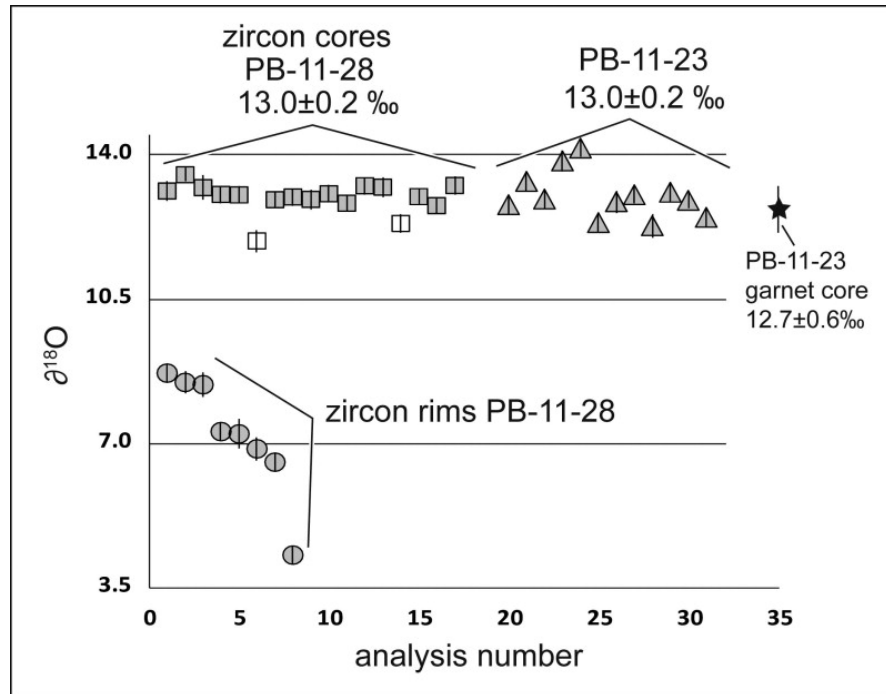


Fig. S4 Results of oxygen analytical session on zircons (PB-11-23 and PB-11-28) and garnet core (PB-11-23).

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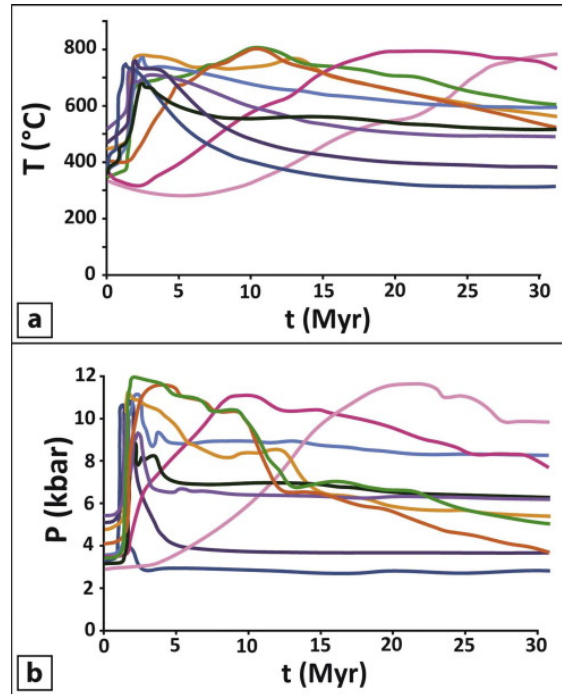


Fig. S5 Tracers flow path for tracers initially located at the greenstone–protocrust boundary. (a) Temperature and (b) pressure versus time diagrams. See sample captions in Fig. 8 .

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