
Erratum to: Post-orogenic shoshonitic magmas of the Yzerfontein pluton, South Africa: the 'smoking gun' of mantle melting and crustal growth during Cape granite genesis?

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The published version of the original paper contained a Sr isotope analysis of Hornblende-pyroxene quartz monzodiorite sample H25, from the shoshonitic part of the Cambrian Yzerfontein pluton on the West Coast in South Africa. The value of $^{87}\text{Sr}/^{86}\text{Sr}$, calculated at our newly determined U–Pb zircon age of 535 Ma, was given as 0.70885 ± 2 (2σ). In the paper, this was reported as an anomalously high value and we hypothesised that this might have been due to the crustal component of this particular magma having been somewhat more radiogenic than for the rest of the shoshonitic samples from the Yzerfontein pluton.

We emphasise that the isotopic and elemental analyses were carried out on the same solutions. Nothing in the Rb/Sr ratio in the isotope results suggested analytical problems. However, this result was sufficiently surprising that we provided AEON Labs (UCT) with a second aliquot to dissolve and analyse. The redetermined value of $^{87}\text{Sr}/^{86}\text{Sr}_{535\text{MA}}$ is 0.70506 ± 2 , which is very similar to all the other determinations for the shoshonitic rocks of the pluton. Although we remain unable to explain the original result, we believe it to have been erroneous and that the correct initial Sr isotope ratio of sample H25 is 0.70506. Accordingly, we present a revised Table 1, showing the Sr and Nd isotope data, with the correction, and a revised version of Figs. 6 and 13 in the original paper, as Figs. 1 and 2 here, with the correct value for H25 plotted. This amendment has no impact on the main conclusions of the original paper.

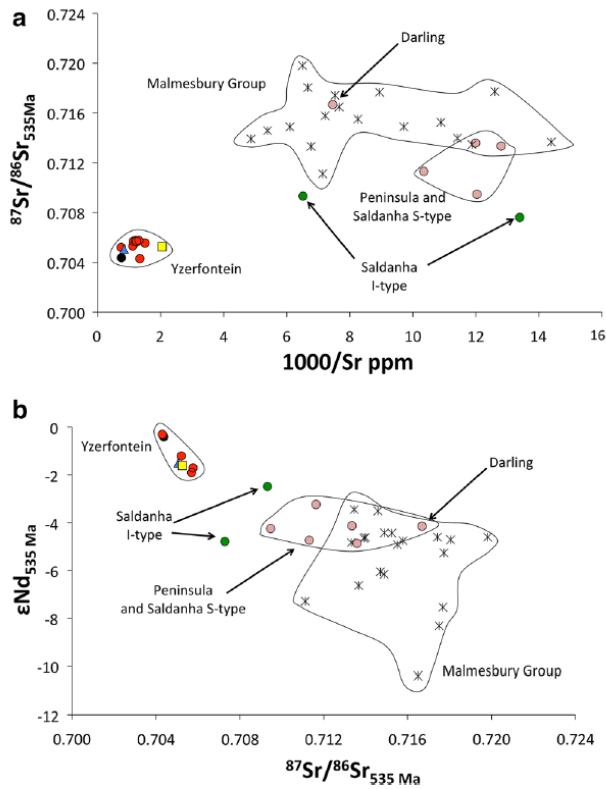


Fig. 2 Isotope plots illustrating the relationships between the rocks of the Yzerfontein pluton, the Cape Granite Suite granitic rocks (CGS) S-type (pink dots) and I-type (dark green dots) and the meta-sedimentary rocks of the Malmesbury Group (stars), with all isotope ratios normalised to the new 535 Ma age for the Yzerfontein pluton. **a** Sr isotope mixing plot, with initial $^{87}\text{Sr}/^{86}\text{Sr}$ plotted against 1000/Sr, **b** isotope correlation diagram, with ϵNd_t plotted against initial $^{87}\text{Sr}/^{86}\text{Sr}$. See the original paper for data provenance and discussion