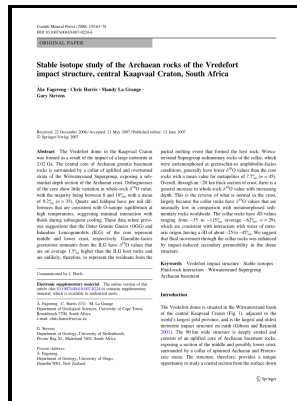


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University of the Witwatersrand - Magmatism and metamorphism at ca. 1.45 Ga in the northern Gawler Craton: The Australian record of rifting within Nuna (Columbia)



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Syn- to post-contractual extension has been increasingly recognized as a major geodynamic process affecting the evolution of orogens e. Geochemical characteristics of the Mahalapye Complex norites are similar to those of marginal facies norites from the Bushveld Complex B1 sills and Molopo Farms Complex layered intrusions, two of the prominent constituents of the Bushveld LIP.

Dr Richard Armstrong

The origins of granulites: a metamorphic perspective. In the next section we discuss the constraints on the origin of the mantle magmatism which gave rise to this event. The tectonic and relative structural significance of many of the latter occurrences are in general not well defined or understood, and a major goal of further work with UHT localities must be to elucidate their local structural evolution in more detail and then place this in regional contexts using precise dating methods.

Dr Richard Armstrong

Following failed rifting between 0. Scientific American, August Dineen, A. Geological Association of Canada, Special Paper, 31,241-253.

Magmatism and metamorphism at ca. 1.45 Ga in the northern Gawler Craton: The Australian record of rifting within Nuna (Columbia)

The combined effect of these ultramafic-mafic and felsic bodies may have contributed to a pronouncedly steep pre-impact geothermal gradient in the Vredefort area, and to the amphibolite-grade metamorphism observed in the supracrustal collar rocks of the Vredefort Dome. We consider the likely range for synmetamorphic q_c to be 75-100 mW m⁻².

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