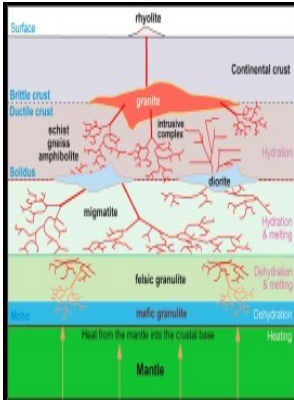


# Regional metamorphism due to anorogenic intracratonic magmatism / R.L. Gibson and G. Stevens.

University of the Witwatersrand - The significance of the Vredefort Dome for the thermal and structural evolution of the Witwatersrand Basin, South Africa, Mineralogy and Petrology



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## HT/LP metamorphic zoning in the eastern Voronezh Crystalline Massif: Age and parameters of metamorphism and its geodynamic environment

Although and showed that the RLS rocks retain mineral O isotope compositions consistent with high-temperature equilibrium and thus did not interact extensively with hydrothermal fluids, hydrothermal activity does appear to have been associated with the intrusion and subsequent cooling of the Bushveld Complex.

### 17.0 Reference list

Contributions to Mineralogy and Petrology, 116, 398-410. Map of the Aegean region showing the location of crystalline massifs in the Anatolide tectonic belt, Turkey: the Menderes, and the Klrsehir, Akda~ and Ni~de massifs the latter three collectively constitute the Central Anatolian crystalline complex. P-T-X relationships in the Precambrian Al-Mg-rich granulites from In Ouzal, Hoggar, Algeria.

### 17.0 Reference list

As with quartz, no systematic difference exists in the amphibole  $\delta^{18}\text{O}$  values between the granites and granophyres, or between the three limbs of the complex. Kotov Cite this article Savko, K. Scientific American, August Dineen, A.

## The significance of the Vredefort Dome for the thermal and structural evolution of the Witwatersrand Basin, South Africa

However, Dasgupta 1993 deduced peak temperatures in excess of 900°C and hence UHT conditions from similar calc-silicate assemblages in the Eastern Ghats on the assumption that they equilibrated at 9 kbar, a As noted in the Introduction, the reliable calculation of the P-T conditions is a prerequisite for any further understanding of the processes involved in metamorphism. Early stages of the Penokean orogeny included the accretion of the Pembine-Wausau arc terrane to the southern margin of the Superior craton.

## **The significance of the Vredefort Dome for the thermal and structural evolution of the Witwatersrand Basin, South Africa**

The two types of metamorphic granophyres are the Zwartbank Pseudogranophyre and the Diepkloof Granophyre. The Precordillera terrane is currently located in western Argentina. Such solutions must comply with known constraints on the independent parameters and boundary conditions that govern the behaviour of equation 4, notably thermal conductivity  $k$  and mantle heat flow  $q_m$ .

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

High P - high - T granulites and eclogites of Lower Devonian age Santos Zalduegui et al.

## **O**

To explore these possibilities, we constructed a series of diagrams Fig.

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