

PETRO-TECTONIC ASSOCIATIONS IN THE ALTEROSA SUTURE PALAEOZONE, SOUTHEASTERN BRAZIL

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The different lithologies that crop in the region of the Alterosa suture palaeozone may be grouped in three petrotectonic associations, structured in a E-W direction by a tangential tectonic in Upper Proterozoic times, with lateral to frontal dislocation and superposed by a sinistral directional tectonic, predominantly transpressive. To the north are the Archean granite-gneiss-greenstone terrais, intruded by basic rocks in the Lower Proterozoic or covered by plataformal metasediments of the Upper Proterozoic. This association was heterogeneously affected by the greenschist tectonic metamorphic process of the Upper Proterozoic. In central portion a metavulcanosedimentary sequence occurs interlayered with orthogneisses sin- to late-tectonic granite and mafic to ultramafic tectonic intercalation, locally with iron formation, considered as ophiolite. Although the retrometamorphic effects catalysed by a directional to tangential tectonics, with horizontal and vertical movements, the metamorphism observed is greater to the south, with a pression around 15 kbar and 800°C of temperature. Finally to the south we found the lower crust terrain in the obducted plate, represented by basic to acid granulite, associated with sin-tectonic granite and metasedimentary intercalation. In this domain, the metamorphic peak observed in the roused portions of frontal ramp, during the movimentation to E, show temperatures greater than 950°C with pression of 15 kbar.