

STRUCTURAL AND METAMORPHIC PATTERNS OF THE RIBEIRA LINEAMENT, SOUTHEAST BRAZIL (*)

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The Ribeira Lineament is an important dextral strike-slip shear zone, with Late Neoproterozoic to Ordovician age. It cuts Açungui Supergroup metasediments and metabasic rocks as well granite bodies. The deformation produced lens-shaped bodies and destroyed the primary structures. Mylonites, protomylonites, phyllonites and cataclastic breccias were formed. The shear zone associated metamorphism is mainly in greenschist facies, chlorite zone, but some rocks at the southern boundary of the Lineament show a higher metamorphic grade, in the transition from greenschist to amphibolite facies. They probably are tectonic lenses from deeper crustal levels, transported over large distances by the shear displacement. Important hydrothermal features associated with cataclastic deformation, observed mainly in antithetic sinistral secondary shear zones, are due to high fluid pressure and hydraulic fracturing. Petrographic, lithochemical and fluid inclusion patterns are analysed. (*)Research supported by FAPESP - Fundação de Amparo à Pesquisa do Estado de São Paulo, and by CNPq - Conselho Nacional de Desenvolvimento Científico e Tecnológico, by means a undergraduated scholarship to the co-author.