

THE GEOLOGY OF NORTHEAST OF SANTA CATARINA STATE

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The northeast region of Santa Catarina State presents according to the geologic literature a Granulite Complex of Santa Catarina State and Paraiba do Sul Complex. Rocks of high metamorphic grade that wasn't map in detail form both of them. The rocks belonging to the Granulite Complex of Santa Catarina State are metamorphic rocks, mainly of granulitic facies, with intermediate - basic composition created in Archean and early Proterozoic. This Complex at Joinville region have been mapped and the contacts between granulitic rocks and quartzites showed two systems of folds and several directions of faults and shear zones. The Paraiba do Sul Complex presents another metamorphic facies: amphibolitic facies. The Paraiba do Sul Complex is represented by a little occurrence of rocks at extreme northeast of Babitonga Bay with a extensive prolongation to the east of Paraná State. This complex correspond a group of rocks formed by gneiss, granitics and cataclastics in upper Proterozoic (before a hundred million years) and strongly affected by tectonomagmatism event of Brazilian cycle.

The contact between these two complexes is an extensive shear zone that controls the form of Babitonga Bay.

This work constructed a map of structural and geology of this region and shows the new state of geological art where many lithostratigraphics units was individualized, principally quartzites, metaultramafic rocks and others.