

## **U-Pb Zircon ages from granitoid gneisses, south of São Paulo State, Brazil**

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During geological mapping of the Jacupiranga (SG.22-X-B-VI-2) and the Rio Guaraú (SG.22-X-B-VI-4) sheets, 1:50,000 scale, achieved three radiometric dating (U-Pb, zircon) were obtained from the following geological units: porphyroclastic orthogneisses (2.1Ga); the Alto Jacupiranguinha granite-gneiss (0.74Ga); and the Itapeúna gneiss (0.63Ga).

The porphyroclastic orthogneisses, Paleoproterozoic age, is the compatible with other data from the Luis Alves cratonic terranes. The Alto Jacupiranguinha granite-gneiss consists of a foliated body of calc-alkaline monzogranite, related to the Rio Pien Suite, and possibly represents a Neoproterozoic precollisional granitoid suite. The Itapeúna gneiss is an anatectic S-type granitoid although its protoliths are mostly impure carbonate rocks from the Turvo-Cajati Complex. The Neoproterozoic age recorded in this unit suggests an important regional migmatization event, possibly related to reworking of the western boundary of the Luis Alves cratonic terranes, which are limited by the Cubatão-Lancinha Shear Zone.

Tectonic interpretation of this setting suggests a continental collision event in the Ribeira Belt evolution.