

## **PB/PB ZIRCON AGES OF NEOARCHEAN MAGMATIC AND METASEDIMENTARY ROCKS OF THE TUCUMÃ REGION, CARAJÁS PROVINCE (BRAZIL).**

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The Tucumã region is divided in a granite-greenstone terrain at the south and the Itacaiúnas shear belt at the north. New geochronological determinations have been performed by both single filament Pb direct evaporation/ionization and double filament Pb evaporation/ionization methods on zircons from Neoproterozoic magmatic and metasedimentary rocks from the Tucumã region. Zircons from a granodioritic orthogneiss of the Itacaiúnas shear belt yielded an age of  $2990 \pm 1$  Ma. Zircons from a felsic metavolcanic rock at the top of the greenstone sequences furnished an age of  $2868 \pm 8$  Ma, while detrital zircons from an immature metasedimentary rock from the same greenstones, indicate ages between 2.87 Ga and 3.10 Ga. A metagranodiorite associated to the greenstone rocks gave a zircon age of  $2870 \pm 1$  Ma. These results indicate the existence of a main crustal growth episode between 3.10 and 2.87 Ga in the southwestern part of the Carajás region. Pb/Pb dating of zircons from two samples of a syn-collisional granitoid from the Itacaiúnas shear belt indicate a Neoproterozoic episode of crustal reworking at  $2738 \pm 3$  Ma and  $2742 \pm 1$  Ma while the granite-greenstones terrains, at the south, behaved as a stable crustal block during the same period.