

TEMORA AND OG1 ZIRCON STANDARD ANALYZED BY SHRIMP IIE OF SÃO PAULO

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Keywords: *SHRIMP, Temora, OG1, standard, zircón*

SHRIMP Iie (Sensitive High Resolution Ion Micro Probe) was installed in the University of São

Paulo - Brazil at October of 2010. SHRIMP needs a standard of age and concentration known to effect normalization of analytic data of unknown samples. From installation of this spectrometer several Temora standard analyses were made and we will mention the most recent analytic data.

23 Temora zircon crystals were analyzed, being 8 crystals as standard ($417 \pm 3\text{Ma}$) and 18 grains like unknown sample. The time spend to effect 23 isotopic measurement was approximately of 9 hours. The concordia age (U-Pb) obtained in Temora zircon crystals analyzed as unknown sample was of 419.0 ± 3.2 , therefore, very close of the known value in the literature. On the other hand, the medium age $^{206}\text{Pb}/^{238}\text{U}$ of 38 measures of standard Temora done in a long duration period of 80 hours was of $416.0 \pm 3.6\text{Ma}$. This error represents a variation in the age of Temora of 0.87% during the period of 3 days and 8 hours. Another standard one analyzed was the archean zircon OG1. The ages of these archean zircon obtained at São Paulo SHRIMP Iie were: $3469 \pm 4\text{Ma}$, $3463 \pm 5\text{Ma}$, $3464 \pm 12\text{Ma}$, all with spot numbers larger than 11. Such results are very close to 3465 Ma obtained at Australian National University.

