

## **Age of the Roraima Group and Roraima-like sequences in the Northern Amazon Craton**

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The Roraima Group is a paleoproterozoic sedimentary sequence cropping out in northern South America. The sequence is largely undeformed and unmetamorphosed, composed mainly by a succession of fluvial cycles, with minor marine contribution. To establish the group age, five zircon and one baddeleyite samples were analyzed by ion microprobe (SHRIMP). The group minimum age is the U-Pb age of the Cipó Sill baddeleyites ( $1778 \pm 12$ Ma). Source-ages were determined in zircon populations from sandstone, corresponding to  $2132 \pm 10$ Ma;  $2088 \pm 10$ Ma (SP-1, Arai Formation) and  $1901 \pm 13$ Ma (CG-30, Aracá Formation). Two samples of Uailã Formation (acid tuffs) zircons were analyzed. Sample HC-194 revealed mainly inherited zircons, with ages older than 2.0Ga. Sample HC-377, together with unherited, older zircon populations, has a magmatic population of long prisms, which yields the paleoproterozoic U-Pb age of  $1875 \pm 5$ Ma. Santos and D'Antona (1982) have suggested the existence of a disconformity above the Uailã Formation and that the Roraima Group top (Matauí Formation) could be much younger. One sample of clastic zircons was collected in the Surucucus table-mountain yielding the mesoproterozoic age of  $1551 \pm 5$ Ma, which is the maximum age for the Surucucus sedimentation. Is suggested that several table-mountains, usually correlated to the Roraima Group may be younger and correlated to the Surucucus sedimentation. Another example is the Neblina Mountain which overlies a basement (Cauaburi Complex) much younger (sample CG-8,  $1789 \pm 6$ Ma) than the Roraima Group ( $1875 \pm 5$ Ma).