



SEDIMENTARY PROVENANCE OF SERRA AZUL FORMATION (EDIACARAN), NORTHERN PARAGUAY BELT, BRAZIL

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ABSTRACT

This work represents a preliminary provenance study on the Serra Azul Formation, situated on the northern Paraguay Belt, Mato Grosso State-Brazil, using K-Ar ages and Sm-Nd model ages. The K-Ar ages are carried out on volcanic clasts recuperated from diamictites while the Sm-Nd T_{DM} ages are carried out on whole rock samples of diamictite matrix and fines. These sediments were deposited during the late Ediacaran glaciation and the respective ice melting. The obtained ages range from Paleoproterozoic to Neoproterozoic and suggest that the provenance of the sediments that fill the basin have their area-font on the Amazon Craton and the older rocks from the Paraguay Belt.