

Within the Bocaina dolomites discontinuous stromatolitic bodies associated with intraformational breccias are observed in a band stretching 200 km NNW from Bonito to Corumbá (MS) that marks the limit of the craton on the west with the Paraguai fold belt to the east.

These stromatolites are best exposed in a deposit at least 300 m long and 6 m high, on the right bank of the Rio Paraguai at Porto Morrinhos, near Corumbá. Bulbous stromatolites 3 m across and 1 m high are capped by 1 m of pelitic sediments and these, in turn, by unbranched, straight stromatolites 3-10 cm wide and 2 m high exhibiting convex to planar laminae.

The associated intraformational breccias include granules to blocks of carbonates, chert, and phosphorite dispersed within a carbonate matrix.

The close association of the stromatolites with the intraformational breccias is interpreted as related to sedimentation at the edge of the platform. In this palaeogeographic context, the breccias would have been deposited at the break in slope to the east and the bulk of the carbonates on the platform to the west under more restricted and locally mildly evaporitic conditions.

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* E-mail: Boggi@spider.usp.br.

** CNPq Research Fellow.

ICHNOFOSSILS AND POSSIBLE IMPRESSIONS OF SOFT-BODIED ANIMALS IN THE RAIZAMA

FORMATION (ALTO PARAGUAI GROUP, VENDIAN-CAMBRIAN), MATO GROSSO, BRAZIL*

MARISELMA FERREIRA ZAINÉ¹ AND

THOMAS R. FAIRCHILD²

Presented by ANTONIO C. ROCHA-CAMPOS

¹CEAPLA, IGCE, UNESP, C.P. 178, 13506-900 Rio Claro, SP.

²Instituto de Geociências, USP, C.P. 11348, 05422-970 São

Paulo, SP.

Ichnofossils are an important tool for identifying the Proterozoic/Phanerozoic limit. We report here the discovery of seven forms of ichnofossils and possible soft-bodied animal impressions in sandstones of the Raizama Formation, basal unit of the Vendian-Cambrian Alto Paraguai Group near Cáceres, Mato Grosso, Brazil.

The specimens of ichnofossils are morphologically simple and few in number but resemble the horizontal

locomotion or feeding trails of the ichnogenera *Planolites* (two forms), *Palaeophycus*, and *Cochlichnus*, all beginning in the Vendian; a fourth ichnomorph may represent a resting mark while a fifth, similar to *Lockeia*, known from Ordovician and younger rocks, appears to be the habitation mark of a sessile fusiform animal.

Two dubiofossils, each known from unique specimens, possibly represent molds or impressions of soft-bodied animals. One consists of an oval impression about 2 × 1.5 cm with a minute central depression and four radially arranged tear-shaped depressions; this possibly is the sub-umbellar impression of a medusoid scyphozoan with four gonads. The other specimen is a slightly curved (incomplete) cylinder, about 6 cm long, tapering slightly at the extremities and marked by regular lateral corrugations, possibly representing the mold of an annelid.

The small number of known specimens and the occurrence of several of them within mud-cracked sediments demand that caution be exercised in their analysis. Confirmation of their biological origin would support tentative correlation of at least part of the Alto Paraguai Group with the upper part of the Tucavaca Group (E. Bolivia) which bears Early Cambrian ichnofossils. — (30 de novembro de 1995).

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AGES AND TYPOLOGY OF THE BRASILIANO GRANITIC MAGMATISM CLOSE TO THE PROTEROZOIC-PHANEROZOIC BOUNDARY, STATES OF SÃO PAULO AND PARANÁ, SE BRAZIL

SILVIO R. F. VLACH, VALDECIR A. JANASI AND HORSTPETER H. G. J. ULRICH

Presented by ANTONIO C. ROCHA-CAMPOS

Instituto de Geociências, Universidade de São Paulo, São Paulo, SP.

A variety of granitic, dioritic and syenitic rocks were formed during the late- to post-orogenic Brasiliano period in the States of São Paulo, Paraná and vicinities. They belong to the Itu and Serra do Mar provinces, which were generated within a narrow time span [600-580 (± 20) Ma], close to the Neoproterozoic-