ACTA PALAEONTOLOGICA POLONICA

Tanystropheid archosauromorphs in the Lower Triassic of Gondwana

Tiane Macedo De Oliveira, Daniel Oliveira, Cesar L. Schultz, Leonardo Kerber, and Felipe L. Pinheiro
Acta Palaeontologica Polonica 63 (4), 2018: 713-723 doi:https://doi.org/10.4202/app.00489.2018

Tanystropheidae is a clade of early archosauromorphs with a reported distribution ranging from the Early to the Late Triassic of Asia, Europe, and North America. Although some specimens with possible tanystropheid affinities from the Lower Triassic beds of Brazil have been previously attributed to "Protorosauria", little is known about the tanystropheid record in Gondwana. Here, two new and one previously reported specimen from the Sanga do Cabral Formation (Induan–Olenekian) of Brazil are described and interpreted as ?Tanystropheidae. These records, together with other tetrapods previously reported for the Sanga do Cabral Formation, increase the knowledge of the biotic diversification during the beginning of the Triassic. This contribution reinforces that the archosauromorph diversification occurred shortly after the Permo-Triassic extinction, making the Sanga do Cabral Formation an important unit for the study of early Mesozoic faunas.

Key words: Diapsida, Archosauromorpha, Tanystropheidae, Triassic, Sanga do Cabral Formation, Brazil.

Tiane Macedo de Oliveira [tiane.m.deoliveira@gmail.com], Programa de Pós-Graduação em Biodiversidade Animal, Universidade Federal de Santa Maria (UFSM), Prédio 13, Av. Roraima, 1000, 97105-900, Bairro Camobi, Santa Maria, Rio Grande do Sul, Brazil. Felipe L. Pinheiro [felipepinheiro@unipampa.edu.br] and Daniel Oliveira [doliveira.simao@gmail.com], Laboratório de Paleobiologia, Universidade Federal do Pampa (UNIPAMPA), Av. Antônio Trilha, 1847, São Clemente, 97300-000, São Gabriel, Rio Grande do Sul, Brazil. Cesar Leandro Schultz [cesar.schultz@ufrgs.br], Departamento de Paleontologia e Estratigrafia, Instituto de Geociências, Universidade Federal do Rio Grande do Sul (UFRGS), Av. Bento Gonçalves, 9500, 91540-000, Porto Alegre, Rio Grande do Sul, Brazil. Leonardo Kerber [leonardokerber@gmail.com], Centro de Apoio à Pesquisa Paleontológica da Quarta Colônia (CAPPA), Universidade Federal de Santa Maria (UFSM), Rua Maximiliano Vizzotto, 598, 97230-000, São João do Polêsine, Rio Grande do Sul, Brazil.

This is an open-access article distributed under the terms of the Creative Commons

Attribution License (for details please see creativecommons.org), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Full text (461.0 kB) |
Supplementary file (234.6 kB)