ACTA PALAEONTOLOGICA POLONICA

Dipnoan from the Upper Triassic of East Greenland and remarks about palaeobiogeography of *Ptychoceratodus*

Wojciech Pawlak, Mateusz Tałanda, Tomasz Sulej, and Grzegorz Niedźwiedzki
Acta Palaeontologica Polonica 65 (3), 2020: 561-574 doi:https://doi.org/10.4202/app.00679.2019

Here we present a description of the dipnoan remains collected from the middle to upper Norian (Upper Triassic) of Jameson Land, East Greenland. The specimens consist of isolated tooth plates and skull bones of *Ptychoceratodus*, the most complete Late Triassic dipnoan material from Greenland. This genus is reported for the first time from the Upper Triassic of Greenland. The studied material belongs to *Ptychoceratodus rectangulus* previously known from the middle–upper Norian of Germany. It fills the biogeographical gap between the records of the Germanic and the Jameson Land basins. A reconstruction of the skull roof is provided, based on isolated bones collected from the same bone-bed. Their good preservation enables recognition of the sensory line pits, arranged similarly as in the extant *Protopterus*, suggesting a comparable mode of life. This finding has implications for our understanding of the disparity in *Ptychoceratodus* dipnoans, as well as the morphology between closely related dipnoans of the Late Triassic ecosystems.

Key words: Dipnoi, *Ptychoceratodus*, Triassic, Norian, Greenland, Carlsberg Fjord Beds.

Wojciech Pawlak [wojciech.pawlak@student.uw.edu.pl] and Mateusz Tałanda [m.talanda@biol.uw.edu.pl], Department of Palaeobiology and Evolution, Faculty of Biology, Biological and Chemical Research Centre, University of Warsaw, Żwirki i Wigury 101, 02-089 Warsaw, Poland. Tomasz Sulej [sulej@twarda.pan.pl], Institute of Paleobiology, Polish Academy of Sciences, Twarda 51/55, 00-818 Warsaw, Poland. Grzegorz Niedźwiedzki [grzegorz.niedzwiedzki@ebc.uu.s], Department of Organismal Biology, Evolutionary Biology Center, Uppsala University, Norbyvägen 18A, 752 36 Uppsala, Sweden.

 Full text (1,032.2 kB)