

Late Permian vertebrate tracks from the Tumlin Sandstone, Holy Cross Mountains, Poland


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This paper describes the vertebrate ichnofauna from the Tumlin Sandstone (Buntsandstein) of the Holy Cross Mountains in Poland. The footprint assemblage has previously been regarded as Early Triassic in age; however, ichnogenera characteristic of the Late Permian are now recognized. Lack of representatives of the ichnofamily Chirotheriidae, characteristic of continental Triassic sediments worldwide, also indicates a Permian rather than a Triassic age for the studied assemblage. Three ichnogenera (*Batrachichnus*, *Limnopus*, and *Amphisauropus*) produced by amphibians are recognized, the remainder (*Varanopus*, *Chelichnus*, *Dimetropus*, *Rhynchosauroides*, *Palmichnus*, *Paradoxichnium*, and *Phalangichnus*) being of reptilian origin. *Batrachichnus* cf. *salamandroides* (Geinitz, 1861), *Limnopus* cf. *zeilleri* (Delage, 1912), *Amphisauropus* cf. *latus* Haubold, 1970, *Varanopus* aff. *microdactylus* (Pabst, 1896), *Chelichnus* cf. *duncani* (Owen, 1842), and *Dimetropus* sp. are recorded in the Lower Buntsandstein for the first time. The following new ichnospecies are erected: *Rhynchosauroides kuletai* ichnosp. nov., *Palmichnus lacertoides* ichnosp. nov., *Paradoxichnium tumlinense* ichnosp. nov., *Phalangichnus gradzinskii* ichnosp. nov., and *Phalangichnus gagoli* ichnosp. nov.

Key words: Vertebrate footprints, ichnotaxonomy, Lower Buntsandstein, Tumlin Sandstone, Permian, Holy Cross Mountains, Poland.

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