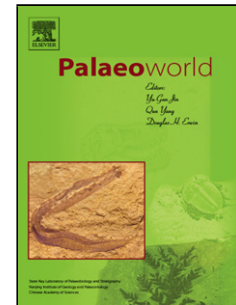


Accepted Manuscript

Title: A theropod-sauropod track assemblage from the Middle–Upper Jurassic Shedian Formation at Shuangbai, Yunnan Province, China, reflecting different sizes of trackmakers: review and new observations



Author: Li-Da Xing Martin G. Lockley Jian-Ping Zhang
Hendrik Klein Tao Wang Susanna B. Kummell Michael E.
Burns

PII: S1871-174X(15)00038-4
DOI: <http://dx.doi.org/doi:10.1016/j.palwor.2015.05.003>
Reference: PALWOR 303

To appear in: *Palaeoworld*

Received date: 15-8-2014
Revised date: 27-1-2015
Accepted date: 13-5-2015

Please cite this article as: Xing, L.-D., Lockley, M.G., Zhang, J.-P., Klein, H., Wang, T., Kummell, S.B., Burns, M.E., A theropod-sauropod track assemblage from the Middle–Upper Jurassic Shedian Formation at Shuangbai, Yunnan Province, China, reflecting different sizes of trackmakers: review and new observations, *Palaeoworld* (2015), <http://dx.doi.org/10.1016/j.palwor.2015.05.003>

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A theropod-sauropod track assemblage from the ?Middle–Upper Jurassic Shedian Formation at Shuangbai, Yunnan Province, China, reflecting different sizes of trackmakers: review and new observations

Li-Da Xing ^{a *}, Martin G. Lockley ^b, Jian-Ping Zhang ^a, Hendrik Klein ^c, Tao Wang ^d,
Susanna B. Kümmell ^e, Michael E. Burns ^f

^a School of the Earth Sciences and Resources, China University of Geosciences, Beijing 100083, China

^b Dinosaur Trackers Research Group, University of Colorado Denver, PO Box 173364, Denver, CO 80217, USA

^c Saurierwelt Paläontologisches Museum, Alte Richt 7, D-92318 Neumarkt, Germany

^d Lufeng Land and Resources Bureau, Lufeng 651200, China

^e Institute of Evolutionary Biology, University Witten/Herdecke, Stockumerstr. 10-12, 58454 Witten, Germany

^f Department of Biological Sciences, University of Alberta 11455 Saskatchewan Drive, Edmonton, Alberta T6G 2E9, Canada

* Corresponding author. *E-mail address:* xinglida@gmail.com

Abstract

A dinosaur tracksite at Hemenkou (Shuangbai County, Yunnan Province) in the ?Middle–Upper Jurassic Shedian Formation that consists mainly of gray-purple feldspathic quartz sandstones was previously reported incorrectly as being in the Lower Cretaceous Puchanghe Formation. The previous assignment is also inconsistent with two regional geological maps. Although mostly yielding poorly preserved tracks, the site nevertheless indicates a diversity of theropod and sauropod trackmakers partly consistent with the Late Jurassic body fossils from the region. Purported ornithopod are re-evaluated here as those of theropods. The theropod tracks and trackways show distinct similarities to those of the *Grallator–Eubrontes* plexus and can be subdivided into three morphotypes that may reflect different pes anatomy and/or substrate conditions. Two sizes of tracks (small, large) indicate the presence of different size classes or species in this area in the Late Jurassic. Similarly, the sauropod trackways document three differently sized trackmakers

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