

Permian brachiopods from new localities in northeast Thailand: Implications for paleobiogeographic analysis

Alberto Pérez-Huerta ^{a*}, Chongpan Chonglakmani ^b, Anisong Chitnarin ^c

^a*Palaeontological Research Centre, Maharakham University, Maharakham 44150, Thailand*

^b*School of Geotechnology, Suranaree University of Technology, Nakhon Ratchasima 30000, Thailand*

^c*School of Biology, Suranaree University of Technology, Nakhon Ratchasima 30000, Thailand*

Abstract

A small Permian brachiopod fauna is described from new localities in northeastern Thailand. Brachiopods were collected from early Permian (Asselian) limestones of the Nam Maholan Formation and middle Permian (Murgabian) sandstones of the Nam Duk Formation and limestones of the Khao Khwang Formation. Analyses of taxa confirm preliminary hypotheses of Cathaysian affinities for brachiopods and fusulinids found in this part of Thailand. Fossils found in sandstones of the Nam Duk molasse facies, however, also show possible Gondwanan relationships with brachiopod taxa described in Australia. This has to be further tested with ongoing research in a better understanding of the paleobiogeography of this part of Southeast Asia.

Keywords: Permian; brachiopods; Thailand; paleobiogeography.

1. Introduction

* Corresponding autor. Present address: Department of Geographical & Earth Sciences-Gregory Building, University of Glasgow, Glasgow G12 8QQ, United Kingdom. E-mail:Alberto.PerezHuerta@ges.gla.ac.uk