Accepted Manuscript

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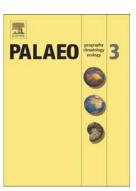
PII:	S0031-0182(16)30699-X
DOI:	doi: 10.1016/j.palaeo.2016.11.012
Reference:	PALAEO 8047

To appear in: Palaeogeography, Palaeoclimatology, Palaeoecology

Received date:8 May 2016Revised date:4 November 2016Accepted date:6 November 2016

Please cite this article as: Liao, Wei, Bond, David P.G., Wang, Yongbiao, He, Lei, Yang, Hao, Weng, Zeting, Li, Guoshan, An extensive anoxic event in the Triassic of the South China Block: A pyrite framboid study from Dajiang and its implications for the cause(s) of oxygen depletion, *Palaeogeography, Palaeoclimatology, Palaeoecology* (2016), doi: 10.1016/j.palaeo.2016.11.012

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ACCEPTED MANUSCRIPT

An extensive anoxic event in the Triassic of the South China Block: a pyrite framboid study from Dajiang and its implications for the cause(s) of oxygen depletion

Wei Liao^a, David P.G. Bond^b, Yongbiao Wang^{a,*}, Lei He^c, Hao Yang^d, Zeting

Weng ^e, Guoshan Li ^a

^a State Key Laboratory of Geological Processes and Mineral Resources, School of Earth Sciences, China University of Geosciences, Wuhan 430074, China

^b School of Environmental Sciences, University of Hull, Hull, HU6 7RX, UK

^c Qingdao Institute of Marine Geology, Qingdao 266071, China

- ^d State Key Laboratory of Biogeology and Environmental Geology, School of Earth Sciences, China University of Geosciences, Wuhan 430074, China
- ^e Faculty of Engineering, Wuhan University of Engineering Science, Wuhan 430200, China

*Corresponding author: Tel.: + 86 27 6788 4320; fax: +86 6788 3001; *E-mail address*: wangyb@cug.edu.cn (Y. Wang).

Abstract

Water column oxygen deficiency has been considered as a potent driver of the extinction of marine benthos, and is a main feature of marine environments in the aftermath of the end-Permian mass extinction. The record of Permian-Triassic anoxia is more complex than previously thought, and is seen to vary between different palaeogeographic settings, but a full understanding is hindered by a paucity of evidence. During the Permian-Triassic interval the South China Block was located equatorially with Palaeotethys to the north and western Panthalassa to the south. This specific configuration provides a unique opportunity to compare the extent and duration of oxygen deficiency in Palaeotethys and Panthalassa under broadly similar climatic conditions. Sedimentary facies and pyrite framboid size-frequency distributions suggest that the oxygen-poor conditions became widespread across the

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