

Accepted Manuscript

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PII: S0031-0182(17)31052-0

DOI: <https://doi.org/10.1016/j.palaeo.2017.12.024>

Reference: PALAEO 8589

To appear in: *Palaeogeography, Palaeoclimatology, Palaeoecology*

Received date: 16 October 2017

Revised date: 21 December 2017

Accepted date: 21 December 2017

Please cite this article as: Kentaro Izumi, Kasumi Endo, David B. Kemp, Mutsuko Inui , Oceanic redox conditions through the late Pliensbachian to early Toarcian on the northwestern Panthalassa margin: Insights from pyrite and geochemical data. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Palaeo(2017), <https://doi.org/10.1016/j.palaeo.2017.12.024>

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Oceanic redox conditions through the late Pliensbachian to early Toarcian on the northwestern Panthalassa margin: Insights from pyrite and geochemical data

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Abstract

The early Toarcian oceanic anoxic event (T-OAE; ~183 Ma) was a significant palaeoenvironmental perturbation associated with marked changes in oceanic redox conditions. However, the precise redox conditions and redox history of various water masses during the T-OAE, especially those from outside the Boreal and Tethyan realms, are unclear. To address this issue, we present pyrite framboid data from an upper Pliensbachian to lower Toarcian succession deposited on the NW Panthalassic margin in a shallow-water setting (Sakuraguchi-dani section, Toyora area, SW Japan).

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