

Accepted Manuscript

A detrital record of continent-continent collision in the Early-Middle Jurassic foreland sequence in the northern Yangtze foreland basin, South China

Tao Qian, Shaofeng Liu, Zongxiu Wang, Wangpeng Li, Xinlu Chen

PII: S1367-9120(16)30292-9

DOI: <http://dx.doi.org/10.1016/j.jseaes.2016.09.016>

Reference: JAES 2816

To appear in: *Journal of Asian Earth Sciences*

Received Date: 2 June 2016

Revised Date: 20 September 2016

Accepted Date: 22 September 2016

Please cite this article as: Qian, T., Liu, S., Wang, Z., Li, W., Chen, X., A detrital record of continent-continent collision in the Early-Middle Jurassic foreland sequence in the northern Yangtze foreland basin, South China, *Journal of Asian Earth Sciences* (2016), doi: <http://dx.doi.org/10.1016/j.jseaes.2016.09.016>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**A detrital record of continent-continent collision in the Early-Middle Jurassic
foreland sequence in the northern Yangtze foreland basin, South China**

Tao Qian^a, Shaofeng Liu^{b,c*}, Zongxiu Wang^a, Wangpeng Li^d, Xinlu Chen^e

^aKey Laboratory of Shale Oil and Gas Geological Survey, Institute of Geomechanics, Chinese Academy of Geological Science, Beijing 100081, China; ^bSchool of Earth Sciences and Resources, China University of Geosciences, Beijing 10083, China;

^cState Key Laboratory of Geological Processes and Mineral Resources, China University of Geosciences, Beijing 100083, China; ^dPetroleum Exploration and Production Research Institute, SINOPEC, Beijing 100083, China; ^eCNOOC Tianjin Company, Tianjin 300452, China

The Mesozoic northern Yangtze foreland basin system was formed by continental collision between the North China and South China plates along the Mianlue suture. Synorogenic stratigraphic sequences of Late Triassic to Early-Middle Jurassic age were developed in the northern Yangtze foreland basin. The upper Middle Jurassic Shaximiao Formation consists mainly of thick-bedded terrestrial successions that serve as the main body of the basin-filling sequences, suggesting intense tectonism in the peripheral orogeny of the foreland basin. Laser-ICP-MS U-Pb analysis of 254 detrital zircon grains from sandstone samples and several published Lower-Middle Jurassic samples, detrital compositions, petrofacies, and paleocurrent reconstructions

* Corresponding author. E-mail: shaofeng@cugb.edu.cn

Download English Version:

<https://daneshyari.com/en/article/8914305>

Download Persian Version:

<https://daneshyari.com/article/8914305>

[Daneshyari.com](https://daneshyari.com)