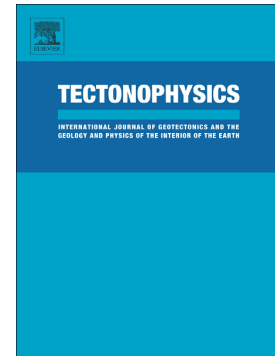


Accepted Manuscript

Earliest Cretaceous accretion of Neo-Tethys oceanic subduction along the Yarlung Zangbo Suture Zone, Sangsang area, southern Tibet

Houq-Qi Wang, Lin Ding, Paul Kapp, Fu-Long Cai, Christopher Clinkscales, Qiang Xu, Ya-Hui Yue, Shun Li, Shuai-Quan Fan



PII: S0040-1951(18)30267-1
DOI: doi:[10.1016/j.tecto.2018.07.024](https://doi.org/10.1016/j.tecto.2018.07.024)
Reference: TECTO 127900
To appear in: *Tectonophysics*
Received date: 6 March 2018
Revised date: 23 July 2018
Accepted date: 30 July 2018

Please cite this article as: Houq-Qi Wang, Lin Ding, Paul Kapp, Fu-Long Cai, Christopher Clinkscales, Qiang Xu, Ya-Hui Yue, Shun Li, Shuai-Quan Fan , Earliest Cretaceous accretion of Neo-Tethys oceanic subduction along the Yarlung Zangbo Suture Zone, Sangsang area, southern Tibet. Tecto (2018), doi:[10.1016/j.tecto.2018.07.024](https://doi.org/10.1016/j.tecto.2018.07.024)

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.

Earliest Cretaceous Accretion of Neo-Tethys Oceanic Subduction along the Yarlung Zangbo Suture Zone, Sangsang Area, Southern Tibet

Houq-Qi Wang^{1,2*}, Lin Ding^{1,3}, Paul Kapp², Fu-Long Cai^{1,3}, Christopher Clinkscales², Qiang Xu^{1,3}, Ya-Hui Yue^{1,3}, Shun Li¹, and Shuai-Quan Fan⁴

¹ Key Laboratory of Continental Collision and Plateau Uplift, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing 100101, China

² Department of Geosciences, University of Arizona, Tucson, AZ 85721, USA

³ Center for Excellence in Tibetan Plateau Earth Sciences, Chinese Academy of Sciences, Beijing 100101, China

⁴ Yinchuan Company, China Hua You Group Corporation, Yinchuan 750011, China

* Corresponding author: H.-Q. Wang (wanghq@itpcas.ac.cn)

Abstract

The accretionary complex of the Yarlung Zangbo Suture Zone (YZSZ) in southern Tibet records the subduction-accretion process of Neo-Tethys oceanic lithosphere. We report field observations, petrographic analysis, detrital zircon U-Pb geochronology, and Hf isotope data of one sedimentary-matrix *mélange* unit of YZSZ in Sangsang area, central southern Tibet. This *mélange* unit is the northernmost, and presumably the oldest one within the YZSZ accretionary complex. The sandstone matrix and blocks are rich in volcanic detritus, linking the main provenance to a juvenile magmatic arc. U-Pb-Hf analysis of detrital zircons from the sandstones reveals a unimodal age population of ~186 - 121 Ma with high positive $\epsilon_{\text{Hf}}(t)$ values of +6.67 to +14.58, consistent with derivation from Gangdese Arc on southern margin of Lhasa terrane. The maximum depositional age of the *mélange* unit is limited to be

Download English Version:

<https://daneshyari.com/en/article/8908619>

Download Persian Version:

<https://daneshyari.com/article/8908619>

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