Accepted Manuscript

Petrology, geochemistry and geochronology of the meta-mafic rocks in the North Sulu ultrahigh-pressure belt: Implications for their petrogenetic diversity and complex tectonic evolution

Lishuang Liu, Fulai Liu, Pinghua Liu, Wei Wang, Lei Ji, Fang Wang, Jia Cai

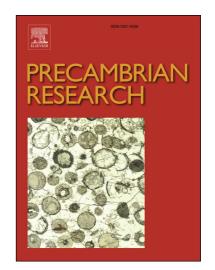
PII: S0301-9268(18)30132-3

DOI: https://doi.org/10.1016/j.precamres.2018.08.002

Reference: PRECAM 5149

To appear in: Precambrian Research

Received Date: 8 March 2018 Revised Date: 19 August 2018 Accepted Date: 20 August 2018



Please cite this article as: L. Liu, F. Liu, P. Liu, W. Wang, L. Ji, F. Wang, J. Cai, Petrology, geochemistry and geochronology of the meta-mafic rocks in the North Sulu ultrahigh-pressure belt: Implications for their petrogenetic diversity and complex tectonic evolution, *Precambrian Research* (2018), doi: https://doi.org/10.1016/j.precamres. 2018.08.002

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.

ACCEPTED MANUSCRIPT

Petrology, geochemistry and geochronology of the meta-mafic rocks in the North Sulu ultrahigh-pressure belt: Implications for their petrogenetic diversity and complex tectonic evolution

Lishuang Liu*, Fulai Liu*, Pinghua Liu, Wei Wang, Lei Ji, Fang Wang, Jia Cai
Institude of Geology, Chinese Academy of Geological Sciences, *Key Laboratory of Deep-Earth Dynamics of Ministry of Natural Resources*, Beijing 100037, China

*Corresponding author.

E-mail address: liulishuang13@126.com (Lishuang Liu), lfl0225@sina.com (Fulai Liu)

ABSTRACT

The ultrahigh-pressure (UHP) eclogite and country rocks of the North Sulu UHP metamorphic belt have traditionally been considered the products of the deep subduction of the Yangtze Block (YB) beneath the North China Block (NCB). However, widely distributed non-UHP meta-mafic rocks, appearing as irregular lenses and thin layers together with UHP eclogite in the Haiyangsuo-Wuji-Weihai area along the northwestern margin of the North Sulu UHP belt, prompted investigation of the petrogenetic diversity and complex tectonic evolution of these rocks. The UHP index mineral assemblage of garnet + omphacite + rutile ± phengite ± coesite is common in the matrix of UHP and retrograde eclogites, or as inclusions preserved in metamorphic zircons indicating UHP metamorphism. In contrast with previous studies, herein high-pressure and medium-pressure (HP–MP) granulite facies index mineral

Download English Version:

https://daneshyari.com/en/article/8912465

Download Persian Version:

https://daneshyari.com/article/8912465

<u>Daneshyari.com</u>