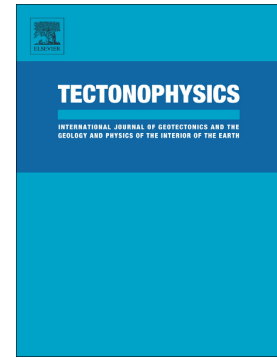


Accepted Manuscript

Water transportation ability of flat-lying slabs in the mantle transition zone and implications for craton destruction

Zhensheng Wang, Timothy M. Kusky, Fabio A. Capitanio



PII: S0040-1951(17)30507-3
DOI: [doi:10.1016/j.tecto.2017.11.041](https://doi.org/10.1016/j.tecto.2017.11.041)
Reference: TECTO 127711
To appear in: *Tectonophysics*
Received date: 21 August 2017
Revised date: 27 November 2017
Accepted date: 30 November 2017

Please cite this article as: Zhensheng Wang, Timothy M. Kusky, Fabio A. Capitanio, Water transportation ability of flat-lying slabs in the mantle transition zone and implications for craton destruction. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Tecto(2017), doi:[10.1016/j.tecto.2017.11.041](https://doi.org/10.1016/j.tecto.2017.11.041)

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.

Water transportation ability of flat-lying slabs in the Mantle Transition Zone and implications for craton destruction

Zhensheng Wang^{1,*}, Timothy M. Kusky^{1,2,*}, Fabio A. Capitanio^{1,3}

1. *State Key Lab of Geological Processes and Mineral Resources, Center for Global Tectonics, School of Earth Sciences, China University of Geosciences, Wuhan, China*
2. *Three Gorges Research Center for Geohazards, China University of Geosciences, Wuhan, China*
3. *School of Earth, Atmosphere and Environment, Monash University, Clayton, 3800 VIC, Australia*

* Corresponding authors: Zhensheng Wang (jasonwang@cug.edu.cn);

Timothy Kusky (tkusky@gmail.com)

Abstract

Water transported by deep subduction to the mantle transition zone (MTZ) that is eventually released and migrates upwards is invoked as a likely cause for hydroweakening and cratonic lithosphere destruction. The destruction of the North China Craton (NCC) during the Mesozoic has been proposed to be related to hydroweakening. However, the source of water related to large-scale craton

Download English Version:

<https://daneshyari.com/en/article/8908784>

Download Persian Version:

<https://daneshyari.com/article/8908784>

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