

Accepted Manuscript

Oligocene climate signals and forcings in Eurasia revealed by plant macrofossil and modelling results

Shufeng Li, Yaowu Xing, Paul J. Valdes, Yongjiang Huang, Tao Su, Alex Farnsworth, Daniel J. Lunt, He Tang, Alan T. Kennedy, Zhekun Zhou



PII: S1342-937X(18)30147-3
DOI: doi:[10.1016/j.gr.2018.04.015](https://doi.org/10.1016/j.gr.2018.04.015)
Reference: GR 1980

To appear in: *Gondwana Research*

Received date: 3 January 2018
Revised date: 22 March 2018
Accepted date: 27 April 2018

Please cite this article as: Shufeng Li, Yaowu Xing, Paul J. Valdes, Yongjiang Huang, Tao Su, Alex Farnsworth, Daniel J. Lunt, He Tang, Alan T. Kennedy, Zhekun Zhou , Oligocene climate signals and forcings in Eurasia revealed by plant macrofossil and modelling results. Gr (2018), doi:[10.1016/j.gr.2018.04.015](https://doi.org/10.1016/j.gr.2018.04.015)

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.

Oligocene climate signals and forcings in Eurasia revealed by plant macrofossil and modelling results

Shufeng Li^{a,b}, Yaowu Xing^{a,*}, Paul J. Valdes^b, Yongjiang Huang^c, Tao Su^a, Alex Farnsworth^b, Daniel J. Lunt^b, He Tang^{a,d}, Alan T. Kennedy^b, Zhekun Zhou^{a,c,*}

^aKey Laboratory of Tropical Forest Ecology, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Yunnan 666303, China

^bSchool of Geographical Sciences, University of Bristol, Bristol, UK

^cKey Laboratory of Biogeography and Biodiversity, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650204, China

^dUniversity of Chinese Academy of Sciences, Beijing 100049, China

Correspondence: Yaowu Xing, tel. (fax): +86-691-8713882, e-mail: ywxing@xtbg.org.cn;

Zhekun Zhou, tel. (fax): +86-691-8713226, e-mail: zhouzk@xtbg.ac.cn.

Abstract

The Oligocene represents a transitional time period from a warm climate to a cooler climate that is more representative of the modern day; yet, a general view of continental climate pattern and forcings are still lacking. Different proxies and models show striking disparities, especially in mid-high latitudes, requiring validation of Oligocene climate reconstruction in order to understand the large-scale processes that drive the observed climate changes. Here, we compiled 149 macrofossil floras in the mid-high latitudes of Eurasia, then quantitatively reconstructed the Oligocene climate using Coexistence Approach (CA) and combined previous published paleoclimate data. During the Oligocene, Eurasian mid-high latitudes were mainly

Download English Version:

<https://daneshyari.com/en/article/8913152>

Download Persian Version:

<https://daneshyari.com/article/8913152>

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