

Interactive comment on “Neogene tectonics and climate forcing of carnivora dispersals between Asia and North America” by H. Jiang et al.

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This paper is very interesting, I kind of like this paper. The authors try to evaluate driving mechanism of four carnivoran dispersals events from the fossil records in the Eurasia and North America through collecting, comparing and analyzing a large number of published records, these events are mainly found at 20, 13–11, 8–7, and 4 Ma. According to my knowledge, rare related study has been carried out from such unique role. It should make significant attempt for exploiting the relationship between the carnivoran dispersals and tectonics and climate change. However, it will be confused if some problems processing is not well discussed. Firstly, the carnivoran must depend on the herbivores rather than topography and climate if they must make survival. From these four fossil assemblages, a large species and number of the herbivores must have

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existed who mainly depend on the rich vegetation. So, the connection between the herbivores and vegetation might be crucial to reflect the climate. Secondly, the tectonic uplift of the Tibetan Plateau is complicated and climate change in the Eurasia seem to be driven by it as well as global cooling. It will not be the either-or choice in my opinion to discuss the driving force. Additionally, English needs to be improved.

Interactive comment on Solid Earth Discuss., 7, 2445, 2015.

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