

Interactive comment on “The role of East-Tethys seaway closure in the middle Miocene climatic transition (ca. 14 Ma)” by N. Hamon et al.

A. Sluijs (Editor)

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Dear Dr. Hamon,

Two scientists have now carefully reviewed your manuscript; you will find their comments behind the links above. Both reviewers are quite positive about your study and results but express concerns regarding the way it is presented and the treatment of previous field-data and modeling work related to your study.

Dr. Herold indicates that your introduction would benefit from a more in-depth discussion of previous work (Miocene and Eocene-Oligocene), which would naturally lead to a better motivation of your study. Also the hypothesized mechanisms could be better discussed; this would also help in motivating your study. He also has good advice re-

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garding comparison to other modeling results and specificity issues. Finally, he brings up hydrological cycling as a critical factor for TISW formation; it would be good to discuss if hydrology is constrained by data for this time period and region.

The advice of the second reviewer is largely consistent with that of Dr. Herold's regarding the treatment of previous work and modeling. In addition, reviewer #2 indicates that your paper would benefit from a more proper summary of the significant tectonic event in the region. In addition, to constrain, model-real world discrepancies your model results could be better integrated with biogeographic and tectonic evidence of the gateway closure.

Please publish a response to the reviewers on this forum in which you answer to their comments point by point.

Sincerely,

Appy Sluijs Editor

Interactive comment on Clim. Past Discuss., 9, 2115, 2013.

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