

## ***Interactive comment on “Did Adria rotate relative to Africa?” by D. J. J. van Hinsbergen et al.***

**D. J. J. van Hinsbergen et al.**

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Dear editor,

Hereby we resubmit our paper ‘Did Adria rotate relative to Africa?’ to Solid Earth, following revision.

As detailed in the responses to the comments of the two referees, we have accommodated the minor revisions they suggested. We have followed all textual suggestions of Rosenbaum, and explained the minor comments of the anonymous referee.

In addition to the suggestions of the reviewers, we have made two other changes. Firstly, it has come to our attention after we submitted the paper that there are four other published Cenozoic paleomagnetic poles from Adria. These were published in

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magnetostratigraphic papers of Dallanave et al. (2009, 2012) and Agnini et al. (2006, 2011). We have included these results in our compilation (Table 1, Figure 7). Secondly, in the original manuscript we calculated the rotation of Adria versus Africa in an arbitrary coordinate in the middle of the study area, whereas in we discuss the rotation of Apulia in a coordinate close to Torino, postulated by Ustaszewski et al (2008) to be the Adria-Eurasia Euler pole in the Cenozoic. For the discussion, and for comparison with APWP tracks, it is more appropriate to use that coordinate as reference point. We have recalculated the averages, which as a result of above changes yielded a counter-clockwise rotation of Adria versus Africa of  $9.8 \pm 9.5^\circ$  instead of  $9.5 \pm 8.9^\circ$ ; the change is insignificant.

We hope you will find this revised version acceptable for publication.

With best regards, on behalf of all co-authors,

Douwe van Hinsbergen

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Interactive comment on Solid Earth Discuss., 6, 937, 2014.

**SED**

6, C510–C511, 2014

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