

*Dear Editor Federico Rossetti,*

*We wish to thank you for the editorial handling of our manuscript entitled “Reconciling post-orogenic faulting, paleostress evolution and structural inheritance in the seismogenic Northern Apennines (Italy): Insights from the Monti Martani Fault System”. Comments and suggestions by the Topic Editor Stefano Tavani have been thoroughly considered and integrated into the revised version of the manuscript. This surely helped us to improve the quality of the article.*

*In the following, we respond point-by-point to each of the Topic Editor’s comments. We report the original comments in **black**, followed by the relative responses in **red**. We are confident that the suggested adjustments will strengthen the overall quality of the manuscript and we hope that our replies to the Topic Editor’s comments and the way we integrated them in the revised version of the manuscript will meet your satisfaction.*

*Yours sincerely,*

*Riccardo Asti*

*(on behalf of the co-authors)*

## **RESPONSE TO TOPIC EDITOR (Stefano Tavani)**

### **Original comments:**

The manuscript is now well-structured and adequately addresses the reviewers' comments. I have just a few technical requests:

Lines 59 to 61: Not entirely correct. The NE portion of the central Apennines belongs to the Umbria-Marche domain of the northern Apennines, and the Apennine platform of the southern Apennines is simply the southern continuation of the Lazio-Abruzzi platform from the central Apennines. Remove the sentence.

**REPLY:** this sentence has been removed.

Please remove the Ortona-Roccamonfina line from both the text and Figure 1a. Its existence, initially proposed in early studies based on satellite lineaments, is at best questionable.

**REPLY:** references to the Ortona-Roccamonfina tectonic line have been removed from both the text and Figure 1a.

Reinsert “Fm.” after the names of all formations and remove “Auctt.” While these terms are formally correct in Italian nomenclature, without “Fm.” readers outside of central Italy would not understand that “Calcare Massiccio” refers to a formation.

**REPLY:** these modifications have been made in the text and in Figure 4.

Replace “structural high” and “structural low” with “horst” and “graben”.

**REPLY:** these modifications have been made in the text and in Figure 4.

Move Table 1 to the supplementary material.

**REPLY:** this table has been moved to the Supplementary Material.