

April 9, 2026

Editor and Reviewers

Dear Editor and Reviewers,

We would like to thank you for the time and effort invested in reviewing our manuscript, as well as for the constructive comments and suggestions provided. We have carefully considered all remarks and have revised the manuscript accordingly. We believe that these changes have significantly improved the clarity, robustness, and overall quality of the work.

In this revised version, we have addressed all the points raised by both the Editor and the Reviewers. In particular, we have expanded the discussion section to better support the interpretation of the identified discontinuities by incorporating additional relevant references and placing our results within a broader regional and global geophysical context. We have also included a discussion on the potential non-uniqueness of the joint inversion results and clarified the sensitivity of the final velocity model to the choice of the initial model.

Furthermore, we have refined the interpretation of the seismic discontinuities by adopting a more cautious perspective, explicitly acknowledging that seismic velocity contrasts may reflect not only tectonic features but also variations in lithology, fluid content, or metamorphic conditions.

Regarding the ambient noise tomography results, the requested path coverage map has been generated and is provided as supplementary material. Due to file size constraints, it is included as a compressed `.zip` file uploaded together with this revised version of the manuscript.

All modifications in the manuscript have been implemented with the aim of improving clarity and ensuring consistency with the reviewer comments. We hope that the revised version meets the expectations for publication.

We sincerely appreciate your consideration and look forward to your response.

Sincerely,
The Authors