

Dear Dr. Marleen de Ruiter,

On behalf of all co-authors, I would like to express our sincere gratitude to you for your time, dedication, and professional handling of our manuscript (egusphere-2025-6373) throughout the entire review process.

First and foremost, we are truly grateful that you accepted our manuscript for further consideration at the initial stage and gave us the opportunity to improve our work through the subsequent review process. Your decision to send our paper out for review, along with the valuable and constructive comments provided by the reviewers, has significantly strengthened the quality of our study. We deeply appreciate your trust and encouragement from the very beginning.

We would also like to thank you for your prompt responses to our inquiries via email during the revision period. Your timely and clear replies have been immensely helpful in keeping the process smooth and efficient. It has been a great pleasure to work with an editor who demonstrates such a positive and responsive working attitude.

Furthermore, we sincerely hope that you may continue to offer us your valuable insights and suggestions in the future. We would like to take this opportunity to share that, during the major revision stage, Reviewer #1 raised several important points regarding Probabilistic Seismic Hazard Analysis (PSHA). At that time, we had only conducted a preliminary investigation and obtained some initial results for the Chile region. In our view, the PSHA framework we are developing is highly informative and scientifically interesting. Therefore, as a natural extension of the current work, we plan to integrate the Mixture of Experts (MOE) model developed in this paper into our proposed PSHA framework and apply it to the Italian region. We look forward to sharing these new results with you and the scientific community in the near future.

Finally, we would like to express our heartfelt thanks once again for your highly efficient and professional work in handling our manuscript. It has been a privilege to have you as our handling editor.

We appreciate all your efforts and support.

Yours sincerely,

Jinfeng Dai

On behalf of all co-authors