

Solid Earth Discuss., author comment AC4
<https://doi.org/10.5194/se-2021-108-AC4>, 2022
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Reply on RC3

Malcolm Aranha et al.

Author comment on "Rare earth elements associated with carbonatite–alkaline complexes in western Rajasthan, India: exploration targeting at regional scale" by Malcolm Aranha et al., Solid Earth Discuss., <https://doi.org/10.5194/se-2021-108-AC4>, 2022

Response to RC3

We thank the Reviewer for the positive comments and welcome the constructive comments. We have addressed all his comments and suggestions in the revised version. Additionally, we have provided our responses in the attached review.

The paper REEs associated with carbonatite-alkaline complexes in western Rajasthan, India: exploration targeting at regional-scale by Malcolm Aranha, Alok Porwal, Manikandan Sundaralingam, Ignacio González-Álvarez, Amber Markan and Karunakar Rao³ provides a study that will interest not only researchers into mineral resources spatial data modelling but also researchers into REE mineralisation and industry explorationists and it appropriate for the Journal.

The paper describes the study and results in a well written and structured paper. There are minor edits that are provided in the attached review of the paper.

- **The main issue with the paper is the number and length of tables that make reading the paper difficult. The information in the tables, however, is very useful and should be included. I would suggest that some of the larger tables are moved to either appendices or a supplementary data section. This will improve the structure and readability of the paper without losing important information.**
- *Response: We agree that the tables in the original manuscript were too cluttered and repetitive and needed restructuring. In the revised version, we have shortened, simplified and revised Tables 3 and 4 (Tables 4 and 5 in the original manuscript). The original Tables 1 and 6A, B and C have now been moved to the appendix.*
- **There are some improvements that can be made to the description of the targets and the Discussion and Recommendations section which are highlighted in the attached review.**
- *Response: We have addressed the comments and suggestions in the revised version*

and responded to the individual comments in the attached review.

- **There are minor issues with the references in the paper with some cited and not referenced and vice versa. Please see the attached.**
- *Response: Thanks for pointing them out. We have addressed all the references related issues in the revised manuscript. The cited references on page 5 and Fig. 3 that were previously missing from the references list have now been included.*
- **If these issues are addressed the paper can be published.**
- *Response: We thank the Reviewer for his positive review and comments.*

Please also note the supplement to this comment:

<https://se.copernicus.org/preprints/se-2021-108/se-2021-108-AC4-supplement.pdf>