

## ***Interactive comment on “Joint inversion of the lithospheric density structure in the North China Craton based on GOCE satellite gravity gradient data and surface gravity data” by Yu Tian and Yong Wang***

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I acknowledge the important work realized by the authors. Based on my own reading of the manuscript and my experience in the field, I found that this contribution is of interest to the journal and may be suitable for publication. However, important revisions are required before its publication.

The authors need to consider the very constructive suggestions provided by both reviewers, and the manuscript has to be revised accordingly. In particular, the authors

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need to strengthen the discussions about the data quality and robustness of the results, by quantifying the impact of applied corrections on data. More details are needed on the used methodology, and on provided information (e.g. Tables 1 and 2). An important issue is to appropriately address the interpretation of results in terms of geodynamical structure of North China Craton. It is important to provide a point by point response to the reviewers' comments and a new manuscript with marked changes.

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