

## ***Interactive comment on “Open access to regional geoid models: the International Service for the Geoid” by Mirko Reguzzoni et al.***

**Anonymous Referee #2**

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The paper is about the International Service for the geoid (ISG) and its geoid repository. It is not a scientific paper, but rather a description of data and services. As such, it should be acceptable for the ESSD Journal.

Nevertheless, some parts of the paper are too long and should be shortened. This concerns: 1. The format description section 3.1.1 is not needed within a journal paper. This section should be removed, a reference to the webpage is sufficient. However, some parts of the present contents may be included in other sections of the paper. 2. The comparison section 4 is too long. One comparison of different regional geoid models (e.g. Japan or Sudan) and one comparison with global models is absolutely sufficient. Further comparisons add nothing new. The authors can mention somewhere that also partly overlapping models may be compared - that should be fully sufficient.

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Furthermore, the implemented interpolation methods (bilinear and inverse distance) are very thin and at least a spline interpolation would be desirable.

Further comments and suggestions are included in the attached pdf file.

I recommend a minor revision with consideration of the above comments.

Please also note the supplement to this comment:

<https://essd.copernicus.org/preprints/essd-2020-394/essd-2020-394-RC3-supplement.pdf>

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Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-394>, 2020.

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