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Interactive comment on "Geopotential field anomalies and regional tectonic features – two case studies: southern Africa and Germany" *by* Monika Korte and Mioara Mandea

Anonymous Referee #2

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Korte and Mandea gathered a multidisciplinary dataset (terrestrial, airborne and satellite magnetic and gravity data) to study geopotential anomalies and regional tectonic structures in southern Africa and Germany. The paper is well written and it clearly exposes the procedures of data acquisition and processing in order to compose several magnetic and gravity gradient anomaly maps. The authors interpret the potential anomaly in attempt to point out causative sources in the lithosphere based on different ranges of anomaly spatial wavelengths and geological settings, previously described in the literature. I will mostly comment that all the methodologies used are appropriate and their integrated geological interpretation is also done with critical reasoning. However, I suggest that the authors should correct all points described by Reviewer #1 (A.

De Santis) and, in addition, indicate more precisely depth ranges instead vague expressions like "near-surface" and "deeper" for structures and causative magnetic sources in Lines 19 (Page 1), 242 and 248 (Page 14), 309 (Page 18), 416 (Page 23) and 465 (Page 24).

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