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Statement of the Thesis Supervisor on Alevtina Kuznetsova's Bachelor Thesis

Geophysical and gravimetric pattern of Ethiopia

The submitted thesis is a corrected version of a thesis submitted during August 2023. The topic of the thesis was inspired by ongoing geological mapping projects in Ethiopia. The newly obtained gravity data are of great importance for regional geological mapping; however, the reliability and consistency of available datasets needed to be tested. Hence, the student was facing two challenging issues. First, she needed to study the geology of Ethiopia to the extent that she could link geological features with their gravity patterns and vice versa. Second, she had to acquire the skills in gravity data processing to distinguish between geological features within the gravity data and artefacts introduced by erroneous primary data or during data processing.

The two available gravity datasets were to be evaluated for their usability in (i) large-scale data interpretation (structures of sizes in tens of kilometres) and (ii) mid-scale interpretation (structures of kilometre sizes).

The student was active during the initial phase of the work. However, she significantly reduced her efforts for a period, but towards the end, she began to work hard again. Consultations on data processing, interpretation, and the final thesis text were mainly conducted electronically.

The thesis topic was challenging for a geophysical apprentice, and therefore her results hold high value.

In the current version, the student has corrected sections of the thesis that were flagged by the Turnitin system for similarity. During the similarity check by Turnitin in December 2023, the draft of the thesis was inadvertently added to the Turnitin database. Consequently, the current similarity reported by Turnitin stands at 96% due to the comparison between the draft and final versions. I am currently collaborating with the Turnitin technical support to remove the draft from the database. Unfortunately, the process is slow, and as of today, the draft is still pending deletion.

Overall, I believe that the author has complied with the requirements set for bachelor's theses, and the thesis's goal has been achieved.

In Prague, 4th January 2024

Mgr. Jan Valenta, Ph.D.