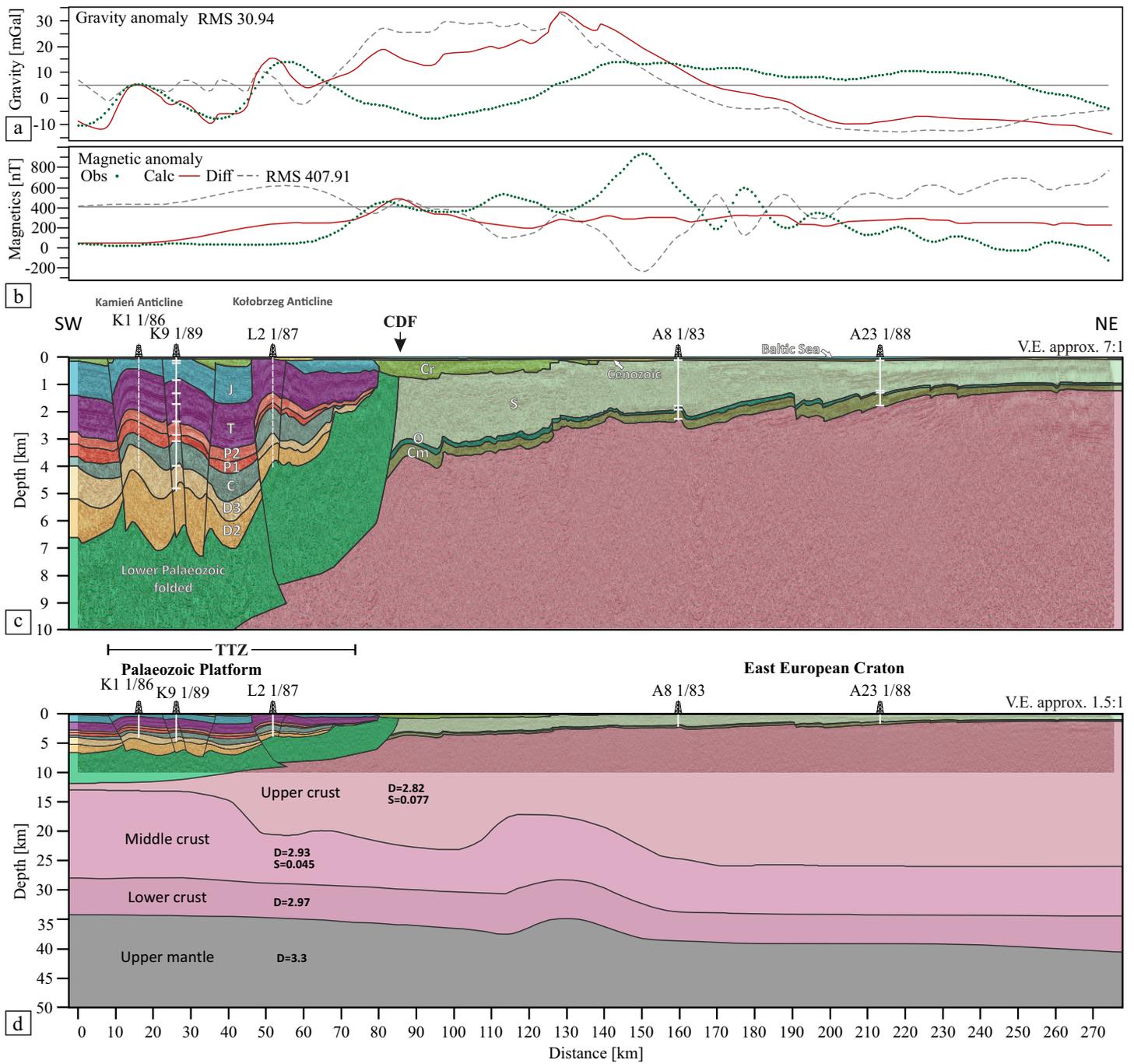


## Supplementary Material 5

### Gravity and magnetic model for profile BGR16-212 without a low-density body



SM5. Alternative gravity and magnetic model for profile BGR16-212 without a low-density body interpreted. (a, b) – gravity and magnetic data, respectively. Green dotted lines – observed and red solid lines – modelled. Grey, dashed line shows the magnitude of error. (c) – vertically exaggerated (7:1) upper part of the geological model. (d) – vertically exaggerated (1.5:1) full geological model based on the seismic profile. Numbers indicate densities (D) in g/cm<sup>3</sup> and susceptibilities (S) in SI convention. Please note a significantly higher RMS error produced by the geological model without a low-density body compared to our preferred model. Abbreviations: CDF – Caledonian Deformation Front, TTZ – Teisseyre-Tornquist Zone.