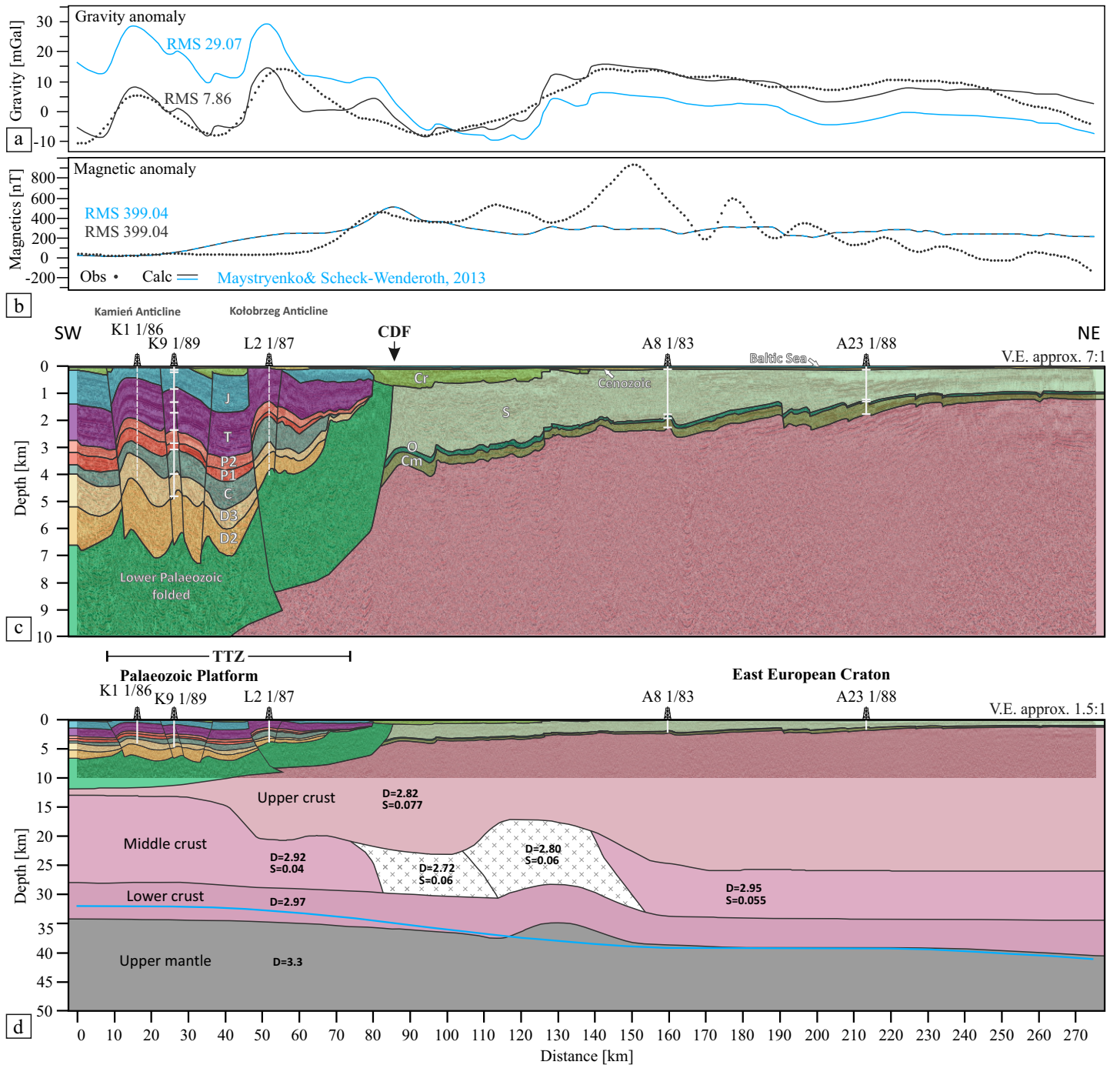


Supplementary Material 4

Alternative gravity and magnetic models for profile BGR16-212



SM4. Alternative gravity and magnetic model for profile BGR16-212. (a, b) – gravity and magnetic data, respectively. Black dotted lines – observed data. Black solid lines – synthetic response of the geological model based on our seismic interpretation. Blue solid lines – synthetic response of the alternative geological model with the Moho horizon implemented after Maystryenko & Scheck-Wenderoth (2013). (c) – vertically exaggerated (9:1) upper part of the geological model. (d) – vertically exaggerated (1.5:1) full geological model based on the seismic profile. Blue solid line – the Moho horizon by Maystryenko & Scheck-Wenderoth (2013). Please note that RMS error of the gravity synthetic profile for the alternative model is significantly higher than that produced by our preferred model. Numbers indicate densities (D) in g/cm³ and susceptibilities (S) in SI convention. Abbreviations: CDF – Caledonian Deformation Front; STZ – Sorgenfrei-Tornquist Zone.