



Deep magnetic anomaly sources interpreted as Otanmäki type Iron ore reserves

Juha Korhonen (1) and Ilmo Kukkonen (2)

(1) Geologian tutkimuskeskus, Espoo, Finland (juha.korhonen@gtk.fi), (2) Helsinki University, Helsinki, Finland

In Otanmäki ore province of Central Finland vertically integrated magnetization is estimated from two aeromagnetic coverages of different altitudes and by varying overall models of regional field. Petrophysically and geochemically determined magnetization of the mined deposits and correlation between it and ore concentration is used to evaluate iron ore reserves in the deeper part of known ore fields. Further, similar analysis is made to nearby magnetically anomalous areas covered by weakly magnetic metasediments, to estimate potential ore reserves at unexposed formations.