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Induced and remanent magnetization sources of WDMAM2007 anomalies in Central Fennoscandian shield

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Samples of Finnish rock geochemical mapping program have been analyzed for bulk density, magnetic susceptibility, intensity of remanent magnetization, and direction of the magnetization vector. Ferrimagnetic susceptibility has been calculated from Fe- and Mn-concentrations using Curies law, and further correlated it with bulk density of samples in different geological environments and major units. The aim of the study is to find magnetic characteristics of geological main units and further estimate frequency of average ferrimagnetic behavior in sample level. The average direction of magnetization is correlated with magnetic anomalies, sources within crustal structure and palaeolatitude at the time of formation of the rocks. The final goal is to assist in establishing a potential field crustal model for geophysical and geological studies.