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Sources of WDMAM2007 anomalies in the vicinity of Gulf of Finland as revealed by magnetization data from basement rock samples

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WDMAM anomalies of Estonia and South Finland correlate with the upper crustal total magnetizations measured from drill cores (Estonia) and hand samples (Finland). The magnetization of Estonia reveals shallow highly magnetic upper crust, whereas in South Finland it extends down to lower crustal levels. The Estonian average magnetic anomaly correlates less with the MF5 than South Finland anomaly does. This may be caused by different depth extents of the sources and hence different attenuation of the anomalies. The geological interpretation of the analysis is discussed.