

COMPARISON OF DATA SETS OF WDMAM 2007

JUHA KORHONEN

Geological Survey of Finland

World Digital Magnetic Anomaly Map (WDMAM) was completed and released in 2007. It consisted of 30 near ground datasets and MF5-crustal field model and was based on candidate presented by Maus et al. (2007). Prior to compilation five teams analyzed data and made their candidate. At level 5 km above the geoid, correlation between MF5 and near ground data varied between 0.1 and 0.4. At 60 best correlations reached 0.7, but did not rise higher when continued upwards. Because of the heterogeneity and low correlation the data sets were homogenized and tied with each other by replacing long wavelengths by MF5. This method can be improved by taking in account existing correlation between near ground data and satellite model.

Magnetic, anomaly, global

Juha V. Korhonen, Geological Survey of Finland, juha.korhonen@gtk.fi