

GEOMAGNETIC SURVEY OVER THE TERRITORY OF SLOVAKIA FOR THE 2007.5 EPOCH

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In the period 2006 to 2008 the geomagnetic ground survey was performed over the territory of Slovakia. The ground survey was accomplished at 128 points distributed regularly over the country. Because of a relatively small area of the country, 49036 km², the assumption of the homogenous transient geomagnetic variations over the whole territory was adopted for the data reduction purposes. Registrations of the variation stations at Hurbanovo Geomagnetic Observatory were used for the processing the survey. The data of the ground survey were reduced to the 2007.5 epoch. Simultaneously two repeat station surveys were carried out in 2006 and 2008. There are six repeat stations in Slovakia. The results of them were reduced to the 2006.5 and 2008.5 epochs, respectively. Measurements were made with DI-flux theodolite, Zeiss Theo 015B with Elsec 810 magnetometer, and with proton precession magnetometers, EDA and PMG-1. Azimuths of the marks were obtained from the observations of the Sun using theodolite Zeiss Theo 010. Maps of the isolines of the geomagnetic field elements from the ground survey are shown. The comparison with the results of the repeat station survey is presented.

Repeat station survey, geomagnetic ground survey

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