

Comparison of the digital variometer systems at the Hurbanovo Geomagnetic Observatory

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A b s t r a c t: Continuous digital recording of GMF variations started at the Hurbanovo Geomagnetic Observatory in 1996. Two variometer systems were installed – Magson fluxgate variometer and PSM . The variometers are recording X, Y and Z components of the Earth's magnetic field. The distance of the variometers from one another is 50 m. There was no temperature regulation in the old variation house where the Magson was placed before April, 2000. The temperature coefficient is the highest for the Y component and the lowest for the X component. The yearly fluctuations of temperature for the PSM are $\pm 0.5^{\circ}$ C, hence low enough to be neglected. The comparison of Magson and PSM variometer systems indicates that the Magson variometer is less sensitive to the external noise.

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