

# **The test results of the delta "I" delta "D" (DIDD) measurement system at the Tihany Geomagnetic Observatory of ELGI**

A.Csontos, L. Hegymegi, B. Heilig, A. Körmendi  
Eötvös Loránd Geophysical Institute<sup>1</sup>

**Abstract:** Collaboration between ELGI and USGS on a spherical coil design began several years ago. The small size coils are approximately 30 cm in diameter. We use the GSM-90 FD 5D Overhauser magnetometer by GEM Systems. By reducing the duration of a complete set of measurements (five readings: F, D+, D-, I+, I-) to 5 seconds we reached the accuracy level of fluxgate magnetometers. We show that the DIDD system is a very useful D and I monitoring system with low noise and satisfactory baseline stability.

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<sup>1</sup> Budapest, Columbus u. 17-23. H-1145. Hungary  
e-mail: geobs@matavnet.hu