

A comparison of observatory fluxgate magnetometers and proton magnetometers deployed in D/I coil systems

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A b s t r a c t: This paper describes work carried out at Eskdalemuir Observatory comparing the output of the standard observatory triaxial fluxgate magnetometer against data obtained from proton magnetometer based D/I coil systems designed by the British Geological Survey and GEM Systems. The results of investigations into short-term (1 minute) and long-term (monthly) variations for both coil systems against the fluxgate and the observatory absolute standard are described.

Key words: fluxgate magnetometer, proton magnetometer

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