

COMPARISON OF MAGNETOMETER SYSTEMS AT THE NCK OBSERVATORY

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Five sets of variometers are continuously operated at the NCK observatory for different purposes. Three sets of fluxgate, one set of torsion magnetometer and one semi-absolute vector magnetometer had been tested for scale value, sensor orientation, temperature effects and long term stability by using natural variations. Differences between measured and calculated total field, as well as baseline variations were considered and different transfer functions among components were analyzed to achieve higher accuracy.

Geomagnetic observatory, instrument test, long-term stability

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