

Russian-Ukrainian Geomagnetic Data Center

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Currently, the regional geomagnetic data node of the Russian-Ukrainian INTERMAGNET segment is being created in the Geophysical Center. A particular feature of this node is the automated system for real-time recognition of artificial disturbances on incoming magnetograms. This system will provide quality control of the incoming geomagnetic data from the Russian and Ukrainian INTERMAGNET observatories. The system includes: 1) algorithmic modules; 2) MySQL database designed for data handling, storage and access; 3) baseline value calculator and its interactive Web interface. Events recognized in incoming data by quality control algorithms are also stored in the database. For each observatory the database includes a table with observatory reference information and separate tables for preliminary, quasi-definitive and definitive data, absolute measurements and baseline values. The baseline value calculator is intended for obtaining the baseline values for each component from the absolute measurements carried out at each observatory on a regular basis.

Keywords: geomagnetic observatory data, data bases, magnetograms, interactive data access