

## **Magnetic Cartography in Kazakhstan**

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1. The standards of analytical models of a main and regional field of the relevancy, of an anomalous magnetic field are offered for a data integrating of absolute and relative magnetic surveys, their cartographical submission by means of numeric and computer cards.
2. The main body of a geomagnetic field is considered as a spherical harmonic line of a length  $n=13$ . The regional fields of relevancy are described by a number on orthonormalized polynomials. Interpolation of significances in knots of uniform grids by drawing up of digital and graphic magnetic maps of an anomalous field is realized by a method of its approximation by the sum of fields of dipoles.
3. All territory of Kazakhstan is covered by aeromagnetic surveys with ferrozond aeromagnetometers, and about 51,7 % of territories are covered with proton and quantum magnetometers.
4. Volumes of drawing out and publication of maps are determined on the basis of evaluation of a condition of scrutiny level of Kazakhstan by aeromagnetic researches and providing with maps of a magnetic field of different scales.
5. The catalogue; the cartogram and atlas of scrutiny level of Kazakhstan territories by aeromagnetic researches; a map of a field of relevancy of a scale 1:1000000; maps of an anomalous magnetic field of Kazakhstan in scales 1:2500000 and 1:1000000; an album of an anomalous magnetic field  $(\Delta T)_a$  and mountain regions of Southern Kazakhstan of a scale 1:200000 are composed and prepared for publication.