

# VARIATIONS OF A GEOMAGNETIC FIELD FOR INTERMAGNET DATA OF BOROK GEOPHYSICAL OBSERVATORY

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Variations of a middle-latitude geomagnetic field of 2005–2011 are analyzed using data series of hourly average data obtained by the INTERMAGNET network (<http://www.intermagnet.org>). The special attention is paid to dynamics of geomagnetic variations observed by the middle-latitude Borok Geophysical Observatory of Schmidt Institute of Physics of the Earth of the Russian Academy of Sciences [58°04' N; 38°14' E]. Statistical characteristics of the variations are investigated; the estimation of the linear trends for geomagnetic field components is executed. Periodic components of a geomagnetic field spectrum are found by spectral correlation methods and wavelet-analysis, their statistical significance is estimated. The harmonical components of a geomagnetic field caused by solar and cosmic activity are revealed. Comparison of geomagnetic field dynamics observed on the INTERMAGNET network of middle-latitude geomagnetic stations is carried out.