

International Workshop "Extension of INTERMAGNET Russian Segment: Prospects and Challenges" in Uglich, Russia in October 2010

As a result of the proposed workshop the decision on deployment locations of several new INTERMAGNET geomagnetic observatories on the territory of Russia will be carried out. It will provide a great contribution to geomagnetic field study filling the big spatial gap of the present global geomagnetic observatory network. Spatially denser geomagnetic measurements in the Arctic region will give new opportunities for efficient geomagnetic monitoring and for solving relevant applied tasks.

The main objective of the proposed project is to enable an optimal and theoretically substantiated deployment of five new Russian magnetic observatories of the INTERMAGNET standard. In particular, several new observatories should be installed and provide data from the Arctic region, which will significantly improve the analysis of the geomagnetic field. The main objective consists of three subproblems which have to be solved within the workshop:

1. Optimal selection of observatories' deployment locations subject to uniform coverage of the Russian territory and current infrastructure facilities.
2. Optimal selection of observatories' deployment locations subject to global uniform coverage and proximity to the magnetic poles.
3. Development of structural basis and plans for deployment of additional regional node for data acquisition from the Russian and Ukrainian observatories at the Geophysical Centre of RAS.