



Coordinated measurements of ionospheric, electromagnetic and geodynamic parameters in the Baikal rift system in summer of 2009 and 2010

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Coordinated investigations of geodynamic, electromagnetic and ionospheric parameters in the seismically active Baikal rift system were made in summer of 2009 and 2010 by the Institute of Solar-Terrestrial Physics, Institute of the Earth's Crust, and Department of Physical Problems of the Buryat Scientific Center (Russian Academy of Sciences, Siberian Branch). In the report we are going to present the results of GPS-measurements of total electron content variations as well as TEC dynamics deduced from Global ionosphere maps; the data on high-frequency variations and absolute value of the magnetic field components; the data on atmospheric electricity. Using techniques of GPS-geodesy we calculated the field of horizontal deformations. Atmosphere effects on vertical shift of the Earth's crust were analyzed. On the basis of georadar and radioimpedance technique we investigated the areas of seismically active fault. The alpine and midland relief influence on propagation of long and medium waves in the seismically active region. The work was supported by the SB RAS interdisciplinary collaboration project No. 56 and the RFBR grant 10-05-00113.