EVALUATION OF THE QUALITY OF INTERNATIONAL INSTRUMENTS DETERMINING THE IONOSPHERE EFFECTS ON THE EXPLORATION OF THE EARTH SPACE

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The paper presents the results of the analysis of the ionospheric effects on the exploration of the Earth space using international instruments. The analysis is based on the data from the monitoring of the ionospheric parameters and the Earth's magnetic field. The results show that the ionospheric effects can significantly increase the error in the determination of the position of the spacecraft. The proposed methods for reducing the error are presented in the paper.

Keywords: ionosphere, space exploration, ionospheric effects, GPS, GLONASS.