ABOUT USE OF THE QUICKLY METHOD FOR CALCULATION OF THE ELEMENT OF KEPLER ORBITS OF THE HIGH SATELLITE IN THE NIKOLAEV OBSERVATORY

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Numerical model use in the framework of the two bodies for control of the quality corner ground observations. Programms security were create from observations corner coordinates calculations the Kepler elements of the satellite orbit by the Laplas method then it improvement by the method differential corrections. Receive elements of the orbit use for calculation of the satellite positions in the moment observations. Since deviations from Kepler movement of the high satellite are unimportant during observations then discrepancy between observation and calculation positions can be use for characteristic of the observations accuracy.

In most processing observation rows a discrepancy O-C have tendency to increase near by extreme moments of observations that show directly on the dependence of the observation accuracy from satellite apparent brilliance.

On the foundation calculation discrepancy of the satellite positions can be calculation rootmeansquare meanings and rootmeansquare deviations of the orbits elements.

A row of examples of the processing corner observation a geostationary satellite are lead. This observations are made in the Nikolaev observatory.

TELESCOPES FOR OBSERVATIONS OF ARTIFICIAL SATELLITES OF THE EARTH IN THE RESEARCH INSTITUTE NAO

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Artificial satellites of the Earth are cataloged in the RI NAO with the aim of monitoring the space debris dynamics on all near-Earth orbits,