



## **The future of Russian section of the Global Geodetic Observing System**

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The creation of Geodetic Data-processing Center for collection and transmission geodetic data from all stations of Russian geodetic network is considered. New data-processing center will be created on the technical basis of the Institute of Applied Astronomy of Russian Academy of Sciences. In future each interaction with the international services and stations of the Global Geodetic Observing System network is planned to carry out through this data-processing center.

The radio interferometer of new generation, created in the Institute of Applied Astronomy at the stations of "Quasar" VLBI network will be the basis of the Russian section of the Global Geodetic Observing System. Currently this new radio interferometer consists of two antennas with a mirror diameters of 13.2 m installed at the "Badary" and "Zelenchukskaya" collocation sites. All installation works of the antenna systems as well as observations of calibration radio sources were carried out at the end of 2014.

Processing and analysis of newly obtained data showed that the radio interferometer of new generation allows to operate as a part of the Global Geodetic Observing System network and having an accuracy of 3 mm for pole coordinates, 100 microsecond of arc for the nutation and precession angles and no more than 10  $\mu$ s for the Universal Time determination, that meets all requirements of the VGOS program.