



Integration of the Russian Geodetic Network into the GGOS.

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In the frames of the National Program on the improvement of the Fundamental Geodetic System (FAGS) a new network of the nine GPS/ GLONASS sites are established in Russia. Together with the operating till now IGS sites, there are more than 20 permanent GNSS sites in the country with combined receivers. Several of these sites are collocated with the seismological automatic stations of the IRIS network. The main objective of the Program is definition, realization and maintenance of the unified Reference Frame, focusing on both spatial and vertical components. Every site of this network is tied by precise leveling with the two nearest points of the State Leveling network. The repeated absolute gravity measurements at the permanent GPS/GLONASS sites are carried out for estimation of precise vertical components of the coordinates. Several of these sites are already collocated with the existing SLR, VLBI and DORIS stations, and a few additional collocations are planning for further improvement in the accuracy and stability of the reference network. Integrating with GGOS project is considered as well.

The GPS/ GLONASS measurements from all these sites are collected and analyzed by the Analyses center of the Central Research Institute of Geodesy and Cartography, which has been established in cooperation with the BKG. Joint scientific analyses of all space geodetic observations will be carried out in collaboration with the analyses centers of the Russian academy of sciences and Space Agency.