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GLONASS SYSTEM - PNT POLICY, STATUS AND EVOLUTION.

Abstract

Every year Global Navigation Satellite Systems (GNSS) have been playing a more and more important role in world development. At this time, GNSS are extensively used for civil purposes in most countries around the globe. The Russian Government has been exerting significant effort in order to make GLONASS an on-demand system which is available to everyone.

In 2011 the deployment of the GLONASS operational constellation was completed. Currently, GLONASS provides service to consumers on a global scale with acceptable accuracy characteristics.

Access to civilian navigation signals are open and free of direct charge. The Russian Federation doesn't use any methods to degrade the GLONASS accuracy purposefully.

The system has gained international recognition for its customer service; most of the leading manufacturers produce navigation equipment that uses GLONASS.

The GLONASS program is one of the priority state programs of the Russian Federation. In early 2012, the Government of the Russian Federation approved a federal program for the maintenance, development and use of GLONASS up to 2020.

The new program has the following as its main objectives: to maintain the system constellation operational by launching navigation satellites as required; to improve system performance and the quality of navigation services for consumers; to create conditions for the global use of the GLONASS system. Along with the implementation of new CDMA signals, GLONASS will continue transmitting the existing FDMA navigation signals while developing.

The Russian Federation is actively working to promote international cooperation in the field of satellite navigation which aims, first and foremost, to address issues of compatibility and interoperability with other GNSS and to increase using GLONASS around the world. Improving the interoperability of GNSS will allow consumers to receive higher quality and reliability navigation services, while receiving signals from several systems.

At present, the Russian Federation is discussing with some countries issues of cooperation on the placement of GLONASS monitoring stations on their territory in order to monitor the GLONASS and other GNSS performance in these countries.