

The State Geodetic Support System of the Russian Federation

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SUMMARY

The report presents an analysis of the current state and development prospects of the state system of geodetic support of the Russian Federation territory.

The state geodetic support of Russia includes: the fundamental parameters of the Earth's figure and the external gravitational field of the Earth; geocentric coordinate systems: the Earth Parameters 1990 - PZ-90.11, the high-precision State Geodetic Coordinate System - GSK-2011 and the Baltic Height System (BSV-77), which are implemented on the Earth's surface by the structure of State Networks (Geodetic, Leveling, Gravimetric). An integral part of the state geodetic support system are models of the Earth's gravitational field, where one of the main ones is the quasigeoid model, which is the link between geodetic and normal heights. Information resources that promptly provide consumers with geospatial information are also part of the State Geodetic Support.

All components of state geodetic support are inextricably linked with each other and cannot develop independently of each other.