



Abstract Details

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 GPS MONITORING OF THE VERTICAL REFERENCE NETWORK ALONG THE NORTH- POLAR AND PACIFIC COASTLINE. >

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
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Title: GPS MONITORING OF THE VERTICAL REFERENCE NETWORK ALONG THE NORTH- POLAR AND PACIFIC COASTLINE.

Abstract:

Russian territory has a north-eastern coastline more than 12000 km length, washed by the seas of the North-Polar and Pacific Oceans. There are about of 50 tide-gauges along this coast. All these sites are connected with the precise leveling lines. But the discrepancies between levels of different seas reach sometimes one meter or even more. The emphasis of the project FAGS, realized now in Russia, is a development of the precise fundamental geodetic network, based mainly on GPS measurements, and a unification of the vertical datum of the country. More than 150 GPS sites are already established in the Asian area of Russia. The observations are made as the campaigns, whilst several permanent sites are connected with the IGS system. Every site of the network is tied by episodic GPS measurements and with precise leveling with the two nearest points of the State Leveling network. The tide gauges are also included in the network and will be monitored by the GPS measurements. These data together with the gravimetric information are considered as a basement for the establishment of the Global Vertical Datum and for cooperation with the Asian- Pacific countries on the development of the precise quasigeoid.

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