

Current Issues of GNSS Civilian Usage in Russia

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Abstract. The analysis of using global navigation satellite systems (GNSS) for civilian purposes is described in this article. High-precision positioning using augmentation systems for GNSS and raw phase measurement are specially noted. The general requirements of large Russian companies to the high-precision consumer navigation equipment (CNE) are given. Moreover, comparison of the navigation receivers providing raw phase measurements is carried out. The current tendencies in development of the modern CNE are considered. The conceptual approach to the development of the Russian high-precision navigation equipment is proposed.

Keywords: global navigation satellite system (GNSS), navigation receiver, raw phase measurement