

EGU2020-3364

<https://doi.org/10.5194/egusphere-egu2020-3364>

EGU General Assembly 2020

© Author(s) 2022. This work is distributed under the Creative Commons Attribution 4.0 License.



Continuously operating reference stations in Russia: current state and future enhancements

Elena Mazurova¹, Igor Stoliarov², and Vladimir Gorobets³

¹FGBU "Center of Geodesy, Cartography and SDI", Geodesy, Moscow, Russian Federation (e_mazurova@mail.ru)

²FGBU "Center of Geodesy, Cartography and SDI", Geodesy, Moscow, Russian Federation (stoliarov_ia@nsdi.rosreestr.ru)

³FGBU "Center of Geodesy, Cartography and SDI", Geodesy, Moscow, Russian Federation (gorobec_vp@nsdi.rosreestr.ru)

At the present time the Russian state geodetic reference frame of the new generation consists of the three hierarchical levels that include: 1. fundamental astronomical-geodetic reference frame ; 2. high-precision geodetic reference frame; 3. satellite-based geodetic reference frame of the first category. The spatial coordinates of the networks of these three levels are determined by satellite methods. However, only the points of the fundamental astronomical-geodetic reference frame are continuously operating reference stations. Many surveying engineers, geodesists, map-ping specialists, as well as scientists from different backgrounds, are using RINEX files every day freely downloading them from the site //rgs.centre.ru

At the same time, private networks of Continuously operating reference stations are developing rapidly in Russia. These networks are owned by various corporations, both private and public, as well as stations owned by private individuals. Now, a center is being created, the main task of which is to unite all Continuously operating reference stations located on the territory of Russia into a unified network.

This paper addresses the current state of the Continuously operating reference stations network in Russia and plans for enhancing it within the next few years.

Key words: Russian continuously operating reference stations network