

Analysis of retrieval of the vertical refractive-index profile in the troposphere using the signals from the global navigation satellite systems

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Abstract

We present the results of studying the altitude structure of the wave refractive index by a network of seven ground-based GPS and GLONASS receivers located in Kazan'. Various versions of the voxel (elementary volume) grid are studied. The results obtained without and with allowance for averaging for a certain time interval are analyzed. The results are checked by comparing with the radiosonde data. The recommendations for choosing the voxel grid are given. © 2013 Springer Science+Business Media New York.

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