

# **Analysis of the Temporal Structural Function of Tropospheric Delay of Radio Waves Using Radio Measurements of the Signals from Global Navigation Satellite Systems**

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## **Abstract**

© 2014, Springer Science+Business Media New York. We present the results of a three-year experimental study of propagation of decimeter radio waves in the troposphere. The time analysis of the structural function of tropospheric delay of the decimeter radio waves for the three-year measurements of the GLONASS and GPS signals in a city of Kazan is given. The tropospheric contribution to the variance of the decimeter radio-wave delay is for the first time observed to significantly differ for the variations with time scales 1 to 24 h.

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