Atmospheric
Measurement
Techniques

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Discussions

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Interactive comment on "Statistical framework for estimating GNSS bias" by J. Vierinen et.al.

J. Vierinen et.al.

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> For example, is the assumption based on the fact that differences between pairs of measurements are dominated by receiver/transmitter thermal noise? or something along this line?

Differences between pairs of measurements are mostly dominated constant receiver bias and similarity of the ionosphere on measurements neighbouring each other spatially and temporally. We make the assumption that similarity of the ionosphere decreases as the spatial or temporal distance is increased. We further assume that tomographic errors due to the simple ionospheric model increase as a function of zenith angle. Thus, these errors are mostly dominated by the spatiotemporal correlation structure of the ionosphere, and the model errors.

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Interactive comment on Atmos. Meas. Tech. Discuss., 8, 9373, 2015.