Atmos. Meas. Tech. Discuss., 8, C220–C221, 2015
www.atmos-meas-tech-discuss.net/8/C220/2015/

Atmospheric Measurement Techniques Discussions

Interactive comment on "Application of locality principle to radio occultation studies of the Earth's atmosphere and ionosphere" *by* A. G. Pavelyev et al.

C. Wang

carlwang.cv87g@gmail.com

Received and published: 2 March 2015

I. General impression. The Authors modernized and indicated new application of the RO method using explicit formulation of the locality principle. These applications included new precise method of the estimation of the vertical profiles of the total absorption at a single frequency; determination of the inclination and displacement of the ionospheric layers; separation of the influence of the regular layers and turbulence on the altitude profiles of the RO signal at one frequency.

The Authors also showed a possibility to use phase data as a new scintillation index

similar to index S4 in the investigation of the ionospheric influence on the radio wave propagation in the transionospheric links. The manuscript can be published in the AMT journal.

II. Remarks and suggestions 1. Please, remove the twofold citation of the Gorbunov 2002 from the reference list.

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 721, 2015.