

Reply to interactive comments of Dr. Valery Kan to paper

Application of locality principle to radio occultation studies of the Earth's atmosphere and ionosphere

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The interactive comment to our manuscript prepared by Dr. Valery Kan contains a short positive estimation of content of our paper as oriented to significant modernization of the RO technology and extension of the applicable domains of the RO method in the four important geophysical directions:

- estimation of the total absorption at GPS frequencies using the eikonal acceleration/intensity method;
- determination of the displacement and inclination of the ionospheric layers;
- separation of the contributions of the small-scale irregularities and layered structures in the RO signal;
- introduction a new index of the ionospheric activity.

We agree with these comments and we will correct our manuscript taking into account the remarks and suggestions made by Dr. Valery Kan.

We are grateful to Dr. Valery Kan for constructive comments and remarks.