

Reply to interactive comments of Dr. Carl Wang to paper

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

By A. G. Pavelyev, Y.A. Liou, S.S. Matyugov, A.A. Pavelyev, V.N. Gubenko, K. Zhang, and Yu. Kuleshov

The interactive comment to our manuscript prepared by Dr. Carl Wang indicated importance of our paper for modernization of the RO technology as a powerful tool of remote sensing of the atmosphere and ionosphere in next geophysical applications:

- measurements of the weak total absorption at a single GPS frequency using the combined analysis of the phase acceleration and intensity variations;
- localization of the inclined ionospheric layers;
- detection of the small-scale irregularities contributions 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. Carl Wang.

We are grateful to Dr. Carl Wang for constructive comments and remarks.