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Interactive comment on "Remote Sensing of Tropospheric Turbulence Using GPS Radio Occultation" *by* Esayas Shume and Chi Ao

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Dear Anonymous Referee #1:

Thanks for the useful comments and suggestions.

Based on your comments we have now included the following statements in Section 2.1 of the revised paper. We note that other radioholographic inversion methods can be used such as the full spectrum inversion [Jensen et al -2003] and phase matching method [Jensen et al -2004]. While these methods might be easier to implement for certain orbital geometry, studies have shown that all methods yield very similar results in phase and amplitude [Gorbunov-2004].

We have also included the following references:

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Discussion paper

1. Gorbunov, M. E., H.-H. Benzon, A. S. Jensen, M. S. Lohmann, and A. S. Nielsen (2004), Comparative analysis of radio occultation processing approaches based on Fourier integral operators, Radio Sci., 39, RS6004, doi:10.1029/2003RS002916.

2. Jensen, A. S., M. S. Lohmann, H. Benzon, and A. S. Nielsen (2003), Full spectrum inversion of radio occultation signals, Radio Sci., 38(3), 1040, doi:10.1029/2002RS002763.

3. Jensen, A. S., M. S. Lohmann, A. S. Nielsen, and H. Benzon (2004), Geometric optics phase matching of radio occultation signals, Radio Sci., 39, RS3009, doi:10.1029/2003RS002899.

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