

## ***Interactive comment on “Statistical framework for estimating GNSS bias” by J. Vierinen et.al.***

**J. Vierinen et.al.**

x@mit.edu

Received and published: 12 December 2015

We thank the referee for valuable comments. Responses to specific issues are listed below.

> 1, It would be good to have several sentences to describe how the current MAPGPS estimate the receiver bias.

The previous MAPGPS method is described in the papers that we refer to. We will add more details to the final revision.

> 2, In my personal opinion, the proposed method is very useful on estimating the GLONASS receiver bias, since for the same GLONASS receiver, the bias is different from different GLONASS satellites signal. It could be used to process GPS/GLONASS data in a consistent way. The authors should emphasize this point

C4314

We have emphasized this in several places, but we will put even more emphasis to this. The ability to determine bias for other GNSS technologies was one of the main goals for developing this framework.

> 3, In Figure 6, the new method processed TEC has much better coverage in east Asia region. Is this really due to the method difference? I

The old method runs into severe problems in Asia, resulting in negative TEC values (these are not plotted). This is due to several broken receivers. The new method is more resilient to broken receivers.

---

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

C4315