

Interactive comment on “Analysis of GPS radio occultation data from the FORMOSAT-3/COSMIC and Metop/GRAS missions at CDAAC” by W. Schreiner et al.

Anonymous Referee #2

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The paper gives a comprehensive overview on the RO processing method in its first introductory part. It further provides a good insight into the quality of the method and the comparability of the retrieval results between collocated measurements of receivers of the same kind (COSMIC receivers during the first mission period) but also of measurements of receivers of different design, i. e., between COSMIC and METOP/GRAS. On the other hand it also illustrates the differences between the results in processing the measurements of different receivers and provides statements on the significance of these differences and the reasons for these differences where they are known. The paper is well written and I recommend publication in AMTD with only minor revisions.

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General Comments:

I recommend to harmonize the reference to the figures in the text with the figures themselves. In the figure captions the figures are denoted by “Fig.”. In the text, most of the time “Figure” is used, but sometimes “Fig.”. In addition, the different panels of the figures are denoted by capital letters but they are referenced by lower case letters in the text.

Please show units on the relative bending angle comparison plots although it would be (1), i. e., fraction: Figure 4 (B and C), Figure 20, Figure 22, (Figure 23?), and Figure 25.

Special comments:

p. 2438 line 19: typo: “Section 3 presents a overview ...” has to be “... an overview ...”

p2442 line 22 and Figure 2: What is L4 filtering? (Or should it be the L3 filtering described above?)

p2452 line 4: “...van Engeln ...” → “... von Engeln ...”

p 2452: Did you perform an outlier correction also on METOP/GRAS data? (not really clear from text.)

p 2456.line 15: “CL” probably should be replaced by “closed loop (CL)”.

Figure 23 does not suite to its caption (in fact its the same as Figure 22.)

Interactive comment on Atmos. Meas. Tech. Discuss., 4, 2433, 2011.

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