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Atmospheric Measurement Techniques Discussions

Interactive comment on "Processing of GRAS/METOP radio occultation data recorded in closed-loop and raw-sampling modes" *by* M. E. Gorbunov et al.

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GRAS/METOP data contain a significant amount of data gaps both in CL and RS modes (Bonnedal et al., 2010). Gaps in CL mode mostly occur when RS data are present. For each gap its length is evaluated. If the gap length exceeds some pre-specified threshold the data after the gap for setting events or, correspondingly, the data before the gap for rising events are discarded. It the gap length does not exceed the threshold, the deviation of the phase excess from the phase model and the amplitude inside the gap are linearly interpolated to the uniform time grid between the two surrounding points where the signal is present. This fill-in procedure introduces some

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additional uncertainty. However, if the gap length threshold is chosen small enough, the uncertainty will also be insignificant. In this study the threshold was 0.04 second.

Interactive comment on Atmos. Meas. Tech. Discuss., 4, 1061, 2011.