

To Anonymous Referee #3,

The authors sincerely appreciate your review and valuable comments.

*My only question to the authors is the following: To what extent can the differences between the results obtained for pressure in this study compared to previous studies be explained by the fact that this study did not use GPS-measured height to derive pressure?*

*Can you add a sentence or two on this topic to Section 3.1 or to the discussion section? Do the measurements collected allow you to test what the differences would be if pressure were derived from GPS-measured height?*

→ We checked the GPS-derived pressure of the RS41 radiosondes (it seems that we usually cannot obtain it by the normal use of the software). New Figure 4 shows the difference between the RS92 pressure and the RS41 GPS-derived one. This figure exactly corresponds to Fig.8a of Jensen et al. (2016). The use of the GPS-derived pressure reduces the bias by approximately 0.2 hPa above an altitude of 15 km, but there is still a bias of 0.4 hPa or more at most of altitudes. The median of the difference in Fig.4 is almost the same as in Fig.3a around an altitude of 5 km. The GPS does not essentially improve the pressure bias. This description was added to section 3.1 and conclusions (Line 170-176).