

## *Interactive comment on* "Characteristics of Arctic low-tropospheric humidity inversions based on radio soundings" *by* T. Nygård et al.

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It is true that the median value of inversion base height, shown in previous Figure 4e (now Figure 5e), does not tell everything. It is, however, not clear for us what kind of contour plot of RDFs the reviewer was meaning; if only the base height is to be presented, the plots would be similar to the present Figure 6d (except that RDFs from all 36 stations could be shown, but it would either make the plot hard to read or take too much space). Devasthale et al. (2011) showed contour plots with two variables (their Figures 7, 8, 9, and 11), but without the inversion base height. We considered it most relevant to add discussion in Section 3.1, in the paragraph where the present Figure 6 is first referred to. There we explain how Figure 6d provides additional information to

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help interpreting the present Figure 5e. (We also added a-e to figure references in the manuscript to help the reader to look at the correct subfigure.)

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