In this study, the authors utilize MASC measurements of snowflake microphysical properties and particle fallspeeds to constraint a snowfall retrieval scheme applied on Ka-band zenith radar reflectivities. The snowfall amounts thus obtained are then compared with values obtained by using different combinations of retrieval assumptions for the particle model, PSD parametrization and average fallspeed. The paper is well-conceived and presents valuable content.

Most of the comments I pointed out in my first review report were taken into account and led to significant changes in the manuscript. The addition of the “accumulation-weighted average absolute difference” was necessary and improved the general quality of the paper. I find it also quite insightful to have a visual way of assessing the fluctuations in snowfall accumulation between the different retrieval assumption combinations and the reference. However, it is a pity that the authors decided not to show/discuss the variability associated with there “accumulation-weighted average absolute difference” (maybe there is a good reason for that).

I think the current version of the paper meets the quality standard required by AMT and therefore I would recommend to accept it subject to technical corrections.

I have 2 minor comments related to the modified part of the manuscript:

- p6, l8: “The MASC ideally should be wind-shielded [...]”. As far as I know, there is no study investigating MASC (or similar instrument) performance with or without a windshield so I would temper this statement.

- p12, l9: I would suggest to write “the hexagonal column model” to match the legend of Figure 7.