

We thank the reviewer for carefully reading the manuscript and for providing numerous suggestions on how to improve the manuscript. Each comment will be addressed in the following.

Comment:

Line 132: Add the following: The discussion is presented in section 5 and, finally, conclusions and final remarks...

Answer:

Thank you for this suggestion. We have modified the manuscript accordingly.

Comment:

Line 135-137: Rephrase the sentence: “In particular the role of operational radar systems and the use of their data in combination with or as substitute of data measured by dedicated radars is investigated when paired with the data of a vertically pointing radar operating at a different wavelength.” with “In particular, the role of operational radar systems and the use of their data in combination with or as a substitute for data measured by dedicated radars is investigated when paired with the data of a vertically pointing radar operating at a different wavelength.”

Answer:

Thank you for this suggestion. We have changed the sentence accordingly.

Comment:

Line 199: Replace “western of” with “west of”

Answer:

Thank you for this correction. We have implemented it accordingly.

Comment:

Figure 4 caption: Replace “Shown is the metropolitan region of Munich as a zoom-in of the white rectangle in Fig. 3. The yellow dot marks the position of MIRA-35. Shown are the measurement points of the dedicated (blue colors) and operational radars (red and orange) within their respective segment of roughly 2 km x 2 km centered on MIRA-35 at the lowest elevation angle.” with perhaps “The image shows the metropolitan region of Munich as a zoom-in of the white rectangle in Fig. 3. The yellow dot marks the position of MIRA-35. The image also includes the measurement points of the dedicated (blue colors) and operational radars (red and orange) within their respective segment of roughly 2 km x 2 km centered on MIRA-35 at the lowest elevation angle.”

Answer:

Thank you for this suggestion. We have modified the caption of Figure 4 accordingly.

Comment:

Lines 246-247: Rephrase “To still be able to compare the data of a vertically pointing cloud radar to the data collected by operational radars in the form of PPI scans in a time-height manner, BA-CVPs were developed for this study.”, perhaps as “BA-CVPs were developed for this study to allow time-height comparison between the data collected by operational radars in the form of PPI scans and the data of a vertically pointing cloud radar.”

Answer:

Thank you for this suggestion. We have implemented it accordingly.

Comment:

Line 378: The authors introduce Ze abbreviation without referencing what it is (this is done later, at line 398).

Answer:

Thank you for this correction. We now fully explain Z_e in line 378 and removed the full explanation from line 398.

Comment:

Line 500: The term “smoother” may not be the most adequate here. The resolution is coarser because of the increased distance. Clarify in the text.

Answer:

Thank you for this correction. We have removed the term "smoother" and instead mentioned the coarsened resolution due to increased distance.

Comment:

Figure 14: The latitude and longitude numbers on all plots are not easily visible. The recommendation is to increase the font size.

Answer:

Thank you for this suggestion. We have increased the font size of the axis inscriptions for all plots in Figure 14.