

## ***Interactive comment on “Implementation of Polarization Diversity Pulse Pair Technique using airborne W-band radar” by Mengistu Wolde et al.***

**Mengistu Wolde et al.**

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We would like to thank the reviewer for the comments and we have accepted most of the suggestions. Please find our detailed responses to your comments as follows.

- 1) *As a general comment, "antennas" is typically used as plural in reference to radars, "antennae" in relation to bugs. Both are technically correct and authors choice.* - changed as suggested
- 2) *Figure 1 - lists top and bottom panels, where they are actually laid out side by side* - Thank you for pointing that out. When the paper was formatted from double column to single column the figures were rearranged. But now we corrected the label.
- 3) *Figure 2 - caption does not refer to (a), (b), (c) and (d)* - We added a text corre-

C1

sponding to the figure letters

- 4) *Page 5 line 2 - add "the" in front of radar* - changed as suggested
- 5) *Page 6 line 1 - add "as" to read "such as at the antennae"* - changed as suggested
- 6) *Page 6 line 8 - "clear air condition" should have an s on the end* - changed as suggested
- 7) *Page 6 - Figure 4 is referred to before Figure 3, and similarly Table 3 before Table 2. Consider swapping the figures and tables so they are referred to in order.* - The order of figures changed as suggested. The order of Tables, however, had been correct as the Table 2 is first referred on page 4
- 8) *Figure 4 - the date at the top of panel a says 2016, while the caption says 2017, and panel b has no date* - The typo in the caption was fixed, and the date from the top of the panel removed. Please note that two flights, on March 29, 2016 and on March 4, 2017 are discussed.
- 9) *Figure 5 - refer to caption letters* - changed as suggested
- 10) *Page 13 line 1 - I think should read modular rather than module?* - changed as suggested
- 11) *Page 13 line 5 - remove capitalisation from A CloudSat* - changed as suggested
- 12) *Page 14 - equation 9 also has a reference to equation 8* - unnecessary number was removed
- 13) *Page 15 line 7 - extra/missing bracket* - changed as suggested
- 14) *Page 16 line 1 - has PP10 mode been defined?* - The definition was added in the caption of Fig.1
- 15) *Page 16 line 2 - add "the" to read "for the remainder of the flight duration"* - changed as suggested

C2

- 16) *Page 16 line 17 - add a full stop after aircraft - changed as suggested*
- 17) *Page 19 line 11 - add "a" to read "there are a few aliased points" - changed as suggested*
- 18) *Page 19 line 32 - change "allows to estimate" to "allows an estimate" or similar - changed as suggested*
- 19) *Page 21 line 5 - add a space between limit and the bracket - changed as suggested*
- 20) *Page 21 line 7 - add a space before the bracket - changed as suggested*
- 21) *Page 21 line 9 - add "the" to read "can be seen at the beginning" - changed as suggested*
- 22) *Page 22 line 3 - add an s to level - changed as suggested*

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