

### **Response to the Editor on egusphere-2023-1556**

We would like to thank the Editor for the final check of and the suggestions to our manuscript. Please find the response below in [blue](#).

1. Caption for Figure A2 should specify this is C-band

[The note "C-band" has been added in the caption.](#)

2. Line 420. Add in a sentence to explain that C-band is more sensitive to surface roughness and reference the appendix.

[We have added "Finally, C-band microwave is more sensitive to surface roughness than to densities at larger depths \(as shown in Appendix A\)."](#)