

# Final Response

Response to editor for manuscript egusphere-2023-1653, entitled “Retrieval of SWE from dual-frequency radar measurements: Using timeseries to overcome the need for accurate a priori information”, by Durand, Johnson, Dechow, Tsang, Borah and Kim.

The editor provided feedback that led to three minor changes.

## Editor

**Figure 7 – please revisit the choice of colours. In a), do all these need to be orange? It is hard to distinguish between all the symbols. Please also ensure consistency between a) and b)**

**Please correct typo introduced in Conclusions (dependence)**

This final comment was sent as a private note:

**Just a comment – in appendix D the compensation between single-scatter albedo and SWE is the temporal equivalent of <https://agupubs.onlinelibrary.wiley.com/doi/10.1002/2013JF003017> section 4.2. In this paper the lack of spatial variability in measured TB is for the same reason! (no need to change the paper)**

Thank you. We have responded to all comments below.

1. We have replaced Figure 7. Now, all colors are consistent between a) and b). This led to minor changes to the caption as well.
2. We fixed the typo in the conclusions (dependence)
3. We have added a single sentence, citing this very interesting comparison, which helps make the case that in Appendix D, we are seeing a real outcome, that has been shown previously