

All Editor's comments have been taken into account in the revised manuscript. Below, we have copied the comments in *red italic*; our response follows each comment.

*Please, do not use “doesn't” in more official written texts such as this. There are several occurrences that should be corrected.*

Corrected in the revised version

*I would recommend that you choose another abbreviation instead of SML for sub-cloud mixed layer. In other papers in the same ASCOS Special Issue, SML used as an abbreviation for surface microlayer (Gao et al, 2012). I would suggest SCML, which also makes it easier to remember what it stands for.*

SML replaced by SCML in this version

*Page 15, lines 17-19: “From the beginning of ASCOS until the end of the 2nd period of the ice drift, stable and coupled clouds dominate when low-level stratocumulus are intermittently present; ...”*

*I recommend that you rephrase this slightly. I was confused for a while trying to figure out what a “stable and coupled cloud” might look like.*

Rephrased to avoid any confusion.

*Page 19, line 32: Correct spelling of “Shpe et al. (2013)”.*

Corrected.

*Page 29, lines 15-17: “While precipitation rate is difficult to derive from our dataset, this sanity test shows that our argument that evaporating precipitation may enhance the decoupling does not require excessive precipitation rates.”*

*I would recommend not to use “sanity” here. Choose another word.*

The word ‘sanity’ is removed from the text in the revised manuscript.