

Interactive comment on “Cloud and boundary layer interactions over the Arctic sea-ice in late summer” by M. D. Shupe et al.

Anonymous Referee #1

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The manuscript describes a study on Arctic stratocumulus clouds characteristics from a week long measurement period. The manuscript is vely well written, it is clear and concise, and is within the scope of Atmospheric Chemistry and Physics journal. The observations on cloud related properties have been done using a comprehensive set of measurements along with trajectory model data. I recommend publication of the manuscript after the following minor comments have been addressed:

Page 13198, Lines 4-5: It would be informative to the reader to give some value or range of what is considered “small observed liquid water amounts”.

Page 13203, Lines 6.7: Which satellite imagery was used?

Page 13207, Line 18: It is unclear if you are referring to the ϵ values in the altocumulus
C4317

cloud.

Page 13209, line 17: (Typo) Space missing before “field”

Figures 8 and 11: What is the difference between yellow and red bars indicating the contamination?

Figure 13: Y-axis unit should be fraction rather than percentage.

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 13191, 2013.