

***Interactive comment on “Effect of crustose lichen (*Ochrolecia frigida*) on soil CO<sub>2</sub> efflux in a sphagnum moss community over western Alaska tundra” by Yongwon Kim et al.***

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The soil temperature and moisture dynamics in relation to lichen dominance should be explained a bit better. »> I have completely checked data for July-August hourly variations in soil temperature (above) and moisture (below) at intact and crustose lichen-infested sphagnum moss, as follows.

((Figure A #1)

»> However, I could not find any clues about why soil moisture at 2-cm depth of crustose lichen-infested sphagnum moss relative to 5-cm depth. Hence, we must have

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additional observations, such as soil moisture and temperature at several centimeter depths, for the ascertainment of soil temperature and moisture dynamics for the unusual results. I appreciate your invaluable comments and suggestions for future work.

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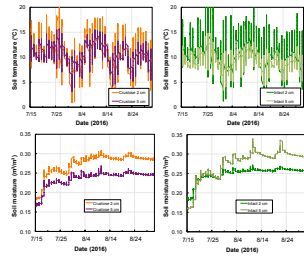


Fig. 1. Figure A#1