

***Interactive comment on “Hydrometric measurements in peatland-dominated, discontinuous permafrost at Scotty Creek, Northwest Territories, Canada – Changing Cold Regions Network (CCRN) Special Observation and Analysis Period (SOAP)” by Kristine M. Haynes et al.***

**Anonymous Referee #1**

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Review of “Hydrometric measurements in peatland-dominated, discontinuous permafrost at Scotty Creek, Northwest Territories, Canada - Changing Cold Regions Network (CCRN) Special Observation and Analysis Period (SOAP)” by Kristine M. Haynes, Ryan F. Connon, and William L. Quinton. The presented dataset covers soil temperatures, soil moisture and groundheat fluxes as well as meteorological variables for

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multiple landscape elements within the Scotty Creek catchment, Canada. The data covers about 1 year and looks interesting from the presented figures. Unfortunately, I couldn't judge the data itself as it is under embargo until 2019 and I did not have the time nor the intention to disclose my anonymity to go and ask for the data as suggested in the data-repository. Therefore I can't really review this dataset except for the presented figures. Overall, the manuscript is well written and the relevance of the dataset is clear from the introduction. However, why exactly the authors chose to present this data (the year 2015) from an ongoing measurement effort since 1990, and if more data is or becomes available, does not become clear from the manuscript.

The data seems of high quality although they also raise questions: - What were the research goals for collecting the presented data in the first place? This does not become clear from the introduction. - Data quality and data gaps are not addressed in the manuscript (%of time coverage, number of gaps etc), except for page 4, line 8,9 that states that some gaps exist. - Why doesn't the soil temperature in the bog go below zero, while ice lenses forming in bogs are quite common. Is this data correct?

Minor comment: Pag1 line 15 Micro. ... Presented. Multiple interpretations possible. Please rephrase. Page 2 line 21 collapse → collapsed. Explain a bit more here.

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