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Interactive comment

## Interactive comment on "Hydrometeorological Data from Baker Creek Research Watershed, Northwest Territories, Canada" by Christopher Spence and Newell Hedstrom

**Anonymous Referee #2** 

Received and published: 8 July 2018

General comments This is a fantastic dataset resulting from 13+ years of focused field observations in the Baker Creek catchment. A truly unique set of data that – as the authors state – is valuable for advancing hydrological understanding and has applications for engineering challenges in permafrost regions. The data note is very well written, and – I believe – complete with all necessary information (eg instrumentation, dates, locations, needed for the data user). I have no major comments, and only have minor – largely grammatical – comments. I suggest publication of this data note following addressing of said minor comments.

Major comments N/A

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Minor comments âĂć Line 12. Use of word 'seasonal'? âĂć Line 14. "include" not "includes" âĂć Line 17. Delete first "from" âĂć Line 29. And Ontario? âĂć Line 33-34. Could you spell out for us what effects on southerly latitudes via the Arctic Ocean? Circulation? âĂć Line 38. Change "2" to "two". âĂć Line 38-39. Only two for the whole Canadian Shield?! Do you mean climates stations or do you mean research catchments? What time series length is needed to be adequate for long term change detection? âĂć Line 44. Change "2000's" to "2000s" âĂć Line 46. Sentence beginning "These data..." doesn't make much sense- suggest changing "These data are the only..." to "These data constitute the only..." aðác Figure 1. This needs enlarging; the font size on the axes and legend are too small. Perhaps rotate landscape and enlarge the fonts? This would also let us see the catchment details a little better. aAć Line 117. Delete the semicolon. Should be a comma. âĂć Line 119. Comma after "surface characteristics" âÅć Line 121. Comma after "(Kaimal and Finnigan, 1994)"? âÅć Line 126 to 128. Too many "because"s in this sentence. Reads rather funny. Suggest rewriting. âĂć Line 129. I'm unclear as to what you mean by "or sound conditions" âĂć Line 132. Change "consistent" to "constant" âĂć Line 153. Remove apostrophe from 1940s. Same for Line 158. âĂć Line 155. Decreased by 27% âĂć Line 159. Additional or alternative reference for the 2014 being the most extensive? Eg.??: Walker, XJ et al (2018) Cross-scale controls on carbon emissions from boreal mega-fires of the Northwest Territories, Canada. Global Change Biology, https://doi.org/10.1111/gcb.14287. âĂć Line 183. Comma after "(07SB013)" âĂć Line 196. This line doesn't read well, maybe there is a word missing somewhere. Suggest re-reading and editing. âÅć Line 206. Here you have written "Water Survey of Canada" in full, but in the previous paragraph you used the acronym. Be consistent: either use the full name or the acronym once defined. âÅć Line 215. Suggest putting in a date here, at which this text is written. le. "not experienced outflow since 2014 up until the time of writing (xx 2018..)". Is this still the case? âÅć Line 226. Change semicolon to colon. âÅć Line 272. Delete "and" before "Stefan Goodman"? âĂć Figures. Better consistency with font sizes, types and labelling between the figures. Eq. noticeably different font sizes between Figures 9

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and 10, and others. In Figure 5, you write "Jan-08" with a hyphen, while in Figure 9 it is "Jan/07" with a slash. Check inconsistencies among figures, and edit to improve.

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