

Interactive comment on “Links between annual surface temperature variation and land cover heterogeneity for a boreal forest as characterized by continuous, fibre-optic DTS monitoring” by Kazuyuki Saito et al.

Anonymous Referee #2

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1- Much of the text needs improvements in grammatical structure and style of writing. 2- Scientific rigor of the manuscript needs improvement. 3- Figure 3 is elementary. It should be substituted with a figure showing real spectra of the anti-stokes component. 4- Include schematic illustrations of instrument layout and experimental setup. 5- Include details of instrumental response for actual field conditions and calibration procedures. 6- The results presented demonstrate the usefulness of DTS system for surface temperature measurements but have only limited relevance for geophysical problems such as climate change, subsurface thermal conditions, hydrological processes, etc.

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7- It is useful to include quantitative analysis temperature variations associated with changes in vegetation type, permafrost thickness and snow cover.

See attached file for detailed comments.

Please also note the supplement to this comment:

<https://www.geosci-instrum-method-data-syst-discuss.net/gi-2018-8/gi-2018-8-RC2-supplement.pdf>

Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss.,
<https://doi.org/10.5194/gi-2018-8>, 2018.

C2