Geosci. Model Dev. Discuss.,
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Interactive comment on "PIC: Comprehensive R package for permafrost indices computing with daily weather observations and atmospheric forcing over the Qinghai–Tibet Plateau" *by* Lihui Luo et al.

Anonymous Referee #2

Received and published: 19 April 2018

Review Opinions GMD-2018-15, Luo L, et al. Comprehensive R Package for permafrost indices computations (PIC)

Overall problems English is problematic. Before resubmission, ask a native English speaker with good geoscience background to help edit the manuscript when all technical details are taken care of.

Specific issues: Title: OK Abstract: OK 1. Introduction P2, Lines 7-8, winter snow cover in some of those areas is supposed to one of the thickest in the world. P2,

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Discussion paper

Lines 14-16, sentence needs elaboration. The distribution and changes of permafrost with climate is necessary for infrastructure development, ecological and environmental assessments, and climate system modeling. The distribution of permafrost under influences of climate change is.... Notes: the epidemic issue here in the paper is rambunctious listing of references in the text. It should follow the GMD format, or at least the earlier, the first principle. Such as, Lines 10-11, 15-16, and others. Change them all and make the list more reasonable. P3, Lines 3-5, please cite original references, who proposed the classification of permafrost on the basis of MAGT in Chin and on the QTP? Additionally, it is on the MAGT, rather than on the size of the MAGT. What is the size of the MAGT? Page 3, Paragraph 15, The land surface temperature significantly differs the near-surface air temperatures and ground surface temperatures, particularly for the simulation of the thermal regime of ground. This is significant when taking into account of different driving input of the modeling. Please refer to Difference between near-surface air, land surface and ground surface temperatures and their influences on the frozen ground on the Qinghai-Tibet Plateau (Geoderma, Luo et al., 2018); Page 3, Line 20, please change “is a problem” to “problematic”; Page 5, Line 20, “MAGT is the soil temperature in (Wu and Zhang, 2010).” This sentence is incomplete.

Please also note the supplement to this comment:
https://www.geosci-model-dev-discuss.net/gmd-2018-15/gmd-2018-15-RC2-supplement.pdf

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