

***Interactive comment on “A regional model to predict the distribution patterns of alpine permafrost in the western part of the Qilianshan Mountains, on the northeastern edge of the Qinghai-Tibetan Plateau” by Y. Sheng et al.***

**Anonymous Referee #2**

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This paper presents the effects of latitude, altitude, slope and aspect on distribution of permafrost in the northeast of the Qinghai-Tibetan Plateau basing on the field borehole temperature measurements and model. Global warming resulting from rising CO<sub>2</sub> and other greenhouse gases has become an undisputed fact and its effect on tundra and alpine regions mainly come through the permafrost degradation. So, it is a very important topic to monitor and collect the permafrost distribution pattern in different regions of the World, especially in study area of this paper, where rare data were published.

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However, this paper cannot be published in present state. An extensive acceptable conclusion should be supported by a great amount of data with enough repetition and good statistical significance, especially in field random observation. Obviously, the data amount in this paper is not enough and no statistical analysis to support the reliability and universality. So, this paper need more field work before can be published.

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