

## ***Interactive comment on “Change in Frozen Soils and its Effect on Regional Hydrology in the Upper Heihe Basin, the Northeast Qinghai-Tibetan Plateau” by Bing Gao et al.***

### **Anonymous Referee #2**

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Review for <Change in frozen soils and its effect on regional hydrology in the upper Heihe Basin, the Northeast Qinghai-Tibetan Plateau> by Gao et al.

The authors took an distributed hydrological model to study the longterm(1961-2013) change of frozen soil and its influence on hydrology in the upper Heihe basin. In general, the manuscript is very interesting to me, and the conclusions are generally convincing. Based on my personal review, this paper can be accepted for TC after revision.

Comments: 1. The gridded forcing data are interpolated from very few observational stations. Please add the discussions for the uncertainty from model inputs (forcing data; particularly the precipitation, and solar radiation). 2. The tables can be reduced.

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In my opinion, Table 2 can be merged into Figure 6. Tables 3 and 4 can be merged together. 3. Figure 7: how did you get the remote sensing estimated ET, please indicate the reference here.

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Interactive comment on The Cryosphere Discuss., doi:10.5194/tc-2016-289, 2017.

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