

Interactive comment on “The significance of vertical moisture diffusion on drifting Snow sublimation near snow surface” by Ning Huang and Guanglei Shi

Ning Huang and Guanglei Shi

shigl14@lzu.edu.cn

Received and published: 23 August 2017

Dear Dr. Hongyi Li, Thanks for your positive comments, and we're grateful for your valuable suggestion. The point to point responds are listed as following: Item 1: Prof. Huang and his team made a very interesting job in analyzing drifting snow sublimation. Their results indicate that blowing snow sublimation is 3-4 orders of magnitude higher than at 10m. It is amazing and very useful, because this phenomenon has not been involved in any land surface model, as I know. I believe this job can fill the gap. Response: Thanks. In this paper, we just verify the importance of blowing snow sublimation in near-surface region. In further work, we will propose a parametric model,

C1

which can be applied to the land surface models. Item 2: One minor opinion: more explanation in figure captions may be better for readers. Response: Following the Dr. Li's suggestion, we will add some explanation in figure captions. Once again, thank you very much for your comments and suggestions. Best regards Ning Huang and Guanglei Shi

Interactive comment on The Cryosphere Discuss., <https://doi.org/10.5194/tc-2017-116>, 2017.

C2