Supplement of

Duration of vegetation green-up response to snowmelt on the Tibetan Plateau

Jingwen Ni[1,2,3], Jin Chen[4], Yao Tang[1,2,3], Jingyi Xu[1,2,3,5], Jiahui Xu[1,2,3], Linxin Dong[1,2,3], Qingyu Gu[1,2,3], Bailang Yu[1,2,3], Jianping Wu[1,2,3], Yan Huang[1,2,3]

[1]Key Laboratory of Geographic Information Science, Ministry of Education, East China Normal University, Shanghai 200241, China
[2]School of Geographic Sciences, East China Normal University, Shanghai 200241, China
[3]Key Laboratory of Spatial-temporal Big Data Analysis and Application of Natural Resources in Megacities, Ministry of Natural Resources, Shanghai, 200241, China
[4]State Key Laboratory of Earth Surface Processes and Resource Ecology, Beijing Normal University, Beijing 100875, China
[5]Zhejiang Tiantong Forest Ecosystem National Observation and Research Station, School of Ecological and Environmental Sciences, East China Normal University, Shanghai 200241, China

Correspondence to: Yan Huang (yhuang@geo.ecnu.edu.cn)
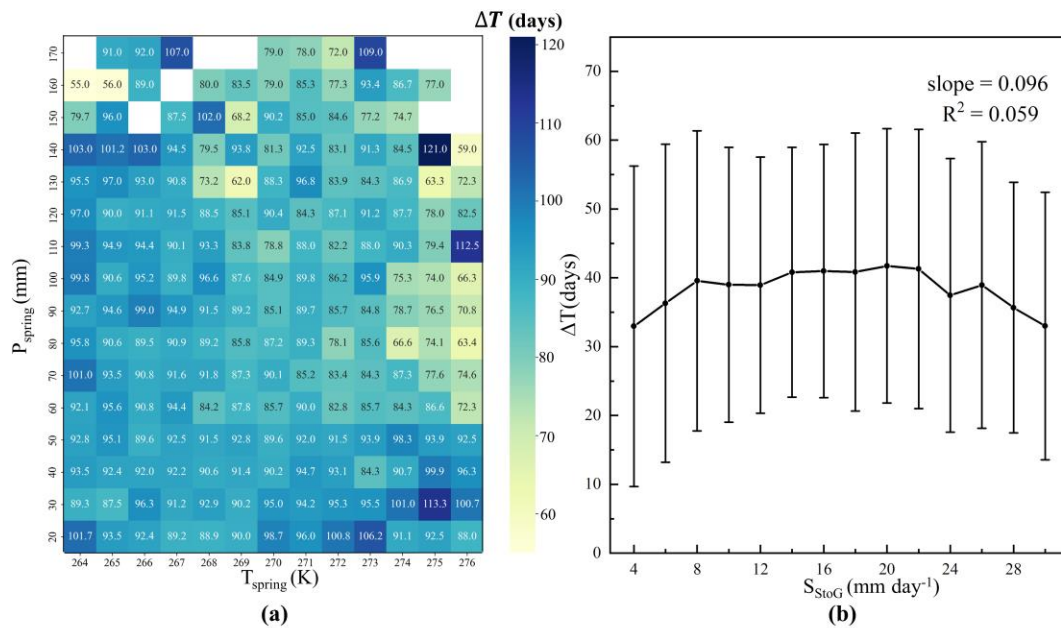
Figure S1: Variations in ΔT calculated from SOMHMA across regions with differing (a) spring mean temperature (T_{spring}), spring total rainfall (P_{spring}), and (b) daily snowmelt from T_{SOM} to T_{GU} (S_{StoG}). In (b), points represent the mean ΔT, while error bars denote one standard deviation. The slope and R2 value reflect the coefficient and precision of the linear regression, respectively, with a significance level of 0.01.
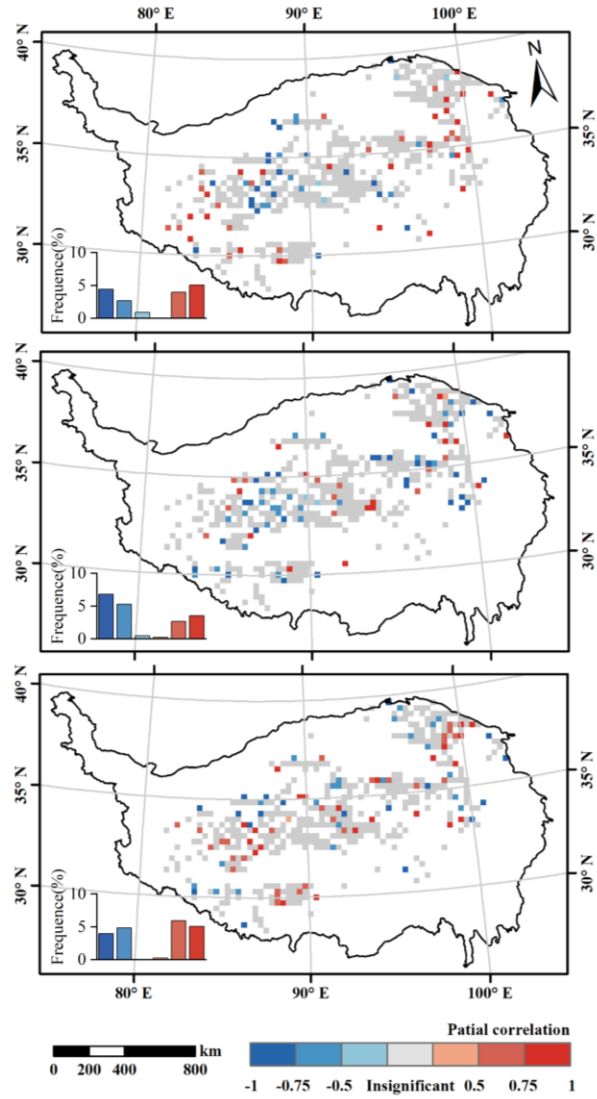
Figure S2: Spatial distribution of the partial correlation between ΔT calculated from SOMHMA and (a) spring mean temperature ($R_{\Delta T \& T_{spring}}$), (b) spring total rainfall ($R_{\Delta T \& P_{spring}}$), and (c) daily snowmelt from T_{SOM} to T_{GU} ($R_{\Delta T \& S_{StoG}}$).
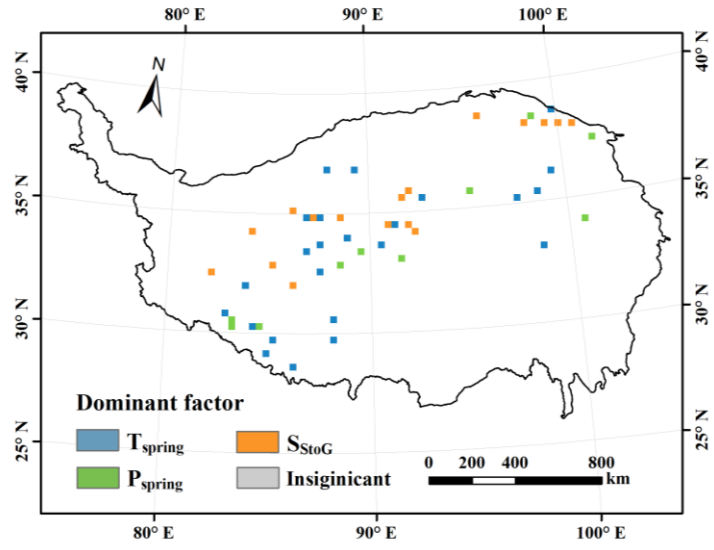
Figure S3: Spatial distribution of dominant factor of ΔT calculated from SOMHMA