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**Supporting Information for**

**A doubling of glacier mass loss in the Karlik Range,** **easternmost Tian Shan, during 1972–2015, in response to regional rapid warming**

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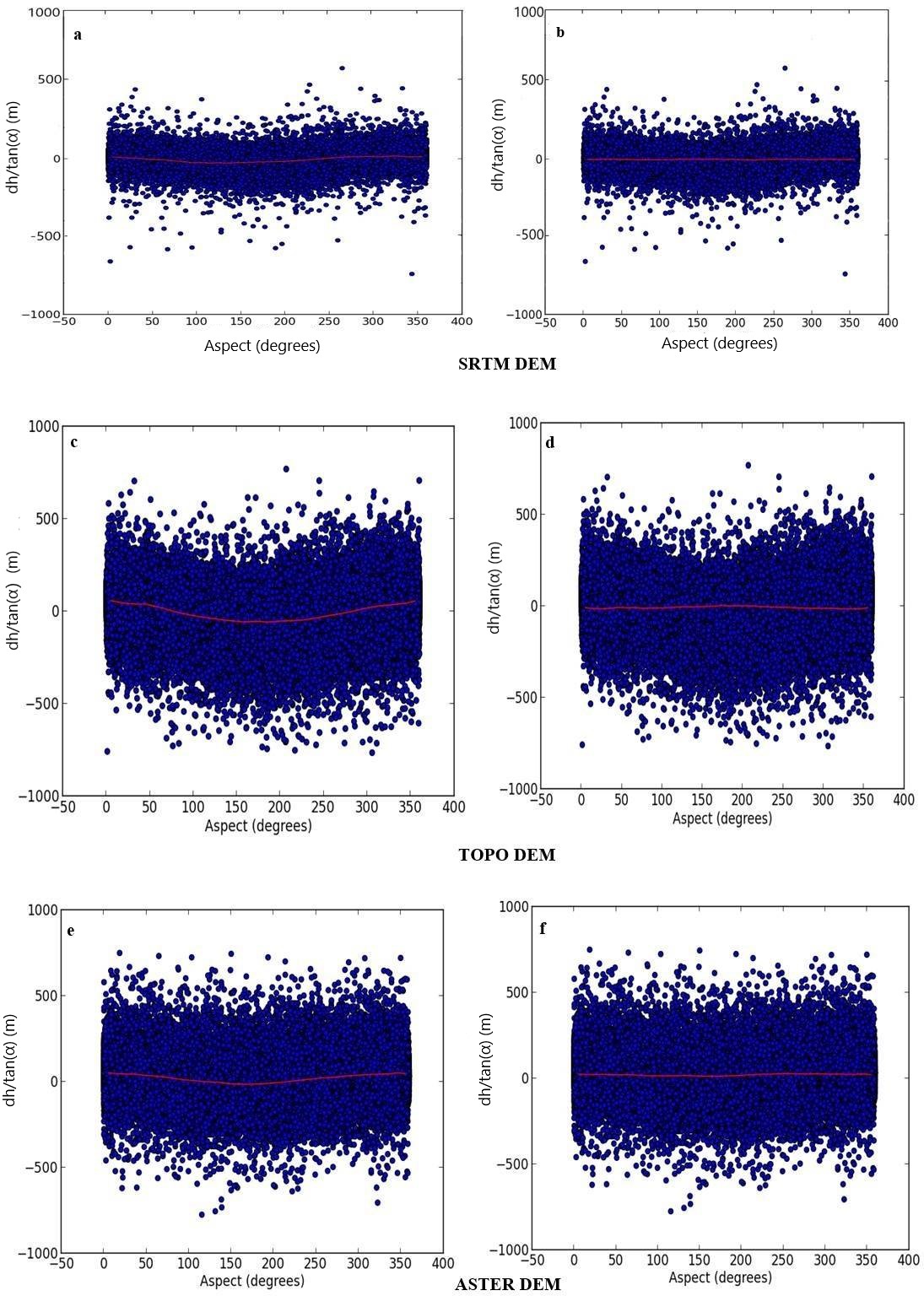


Figure S1. The cosine relationship between elevation difference and aspect before co-registration (a, c and e) and after co-registration(b, d and f)

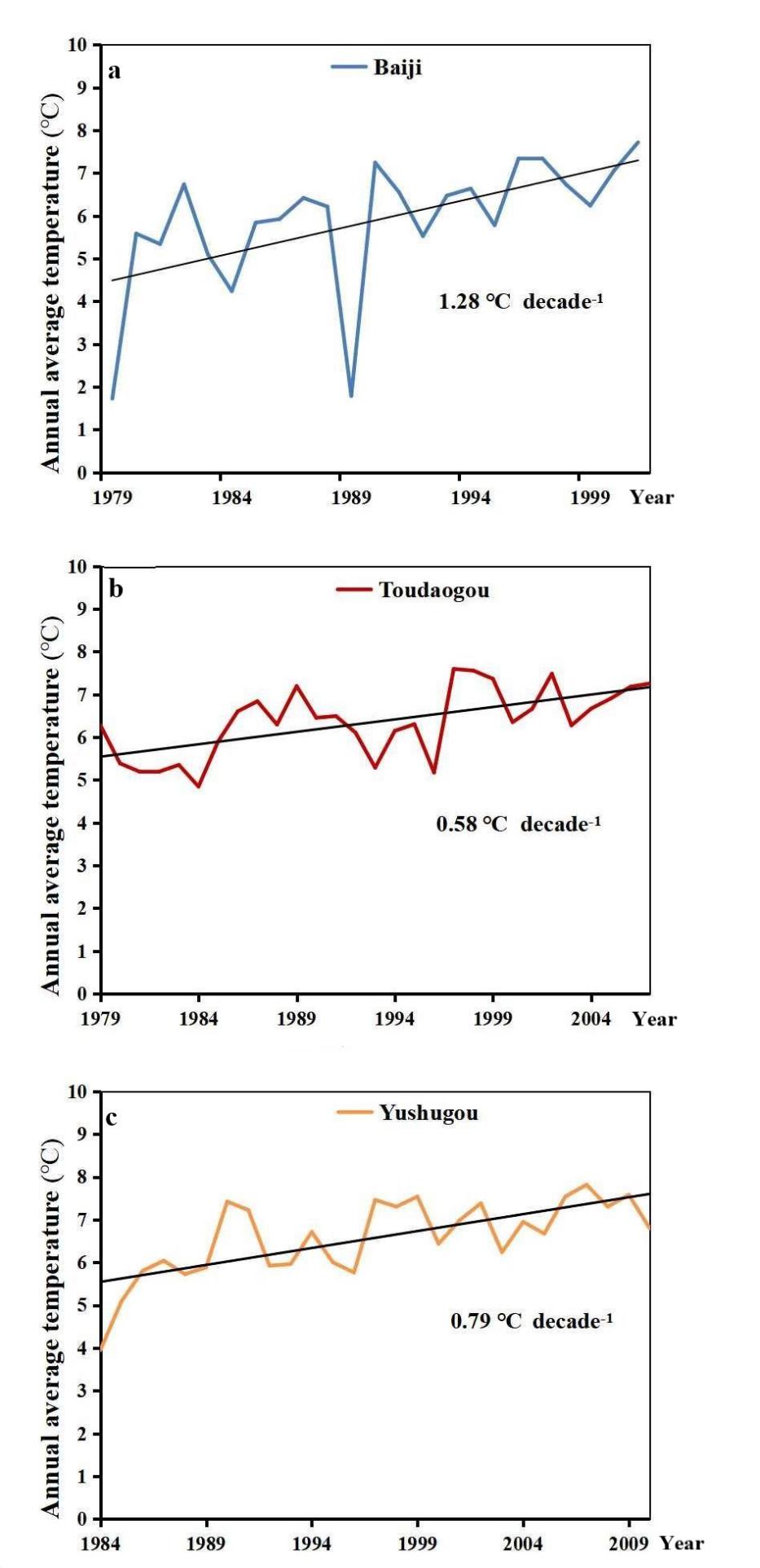


Figure S2. Variations of annual averaged air temperature at the three hydrometric stations (Baiji, Toudaogou and Yushugou Stations) near Karlik Range.

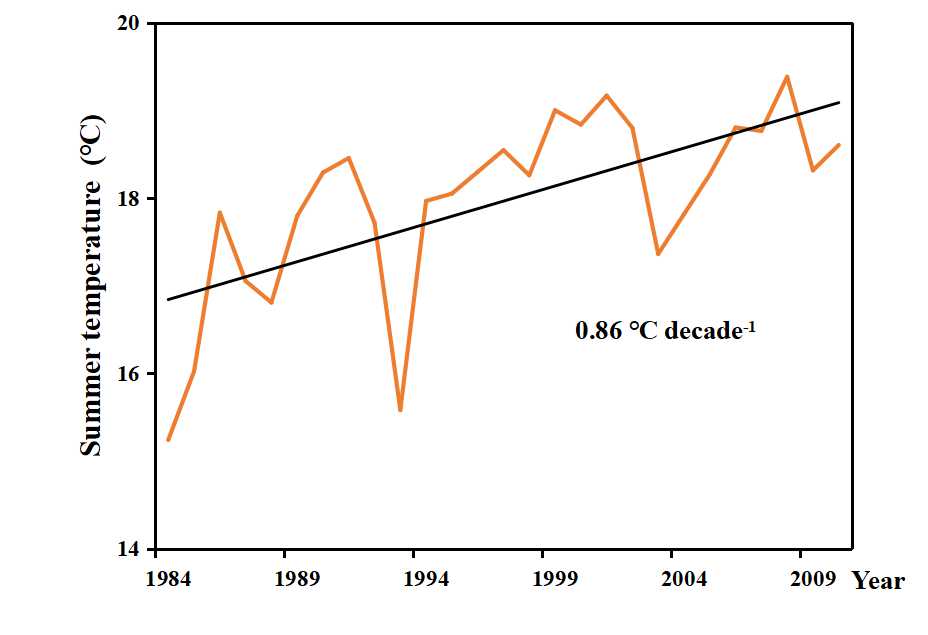


Figure S3. Variations of summer temperature at the Yushugou Stations near Karlik Range.

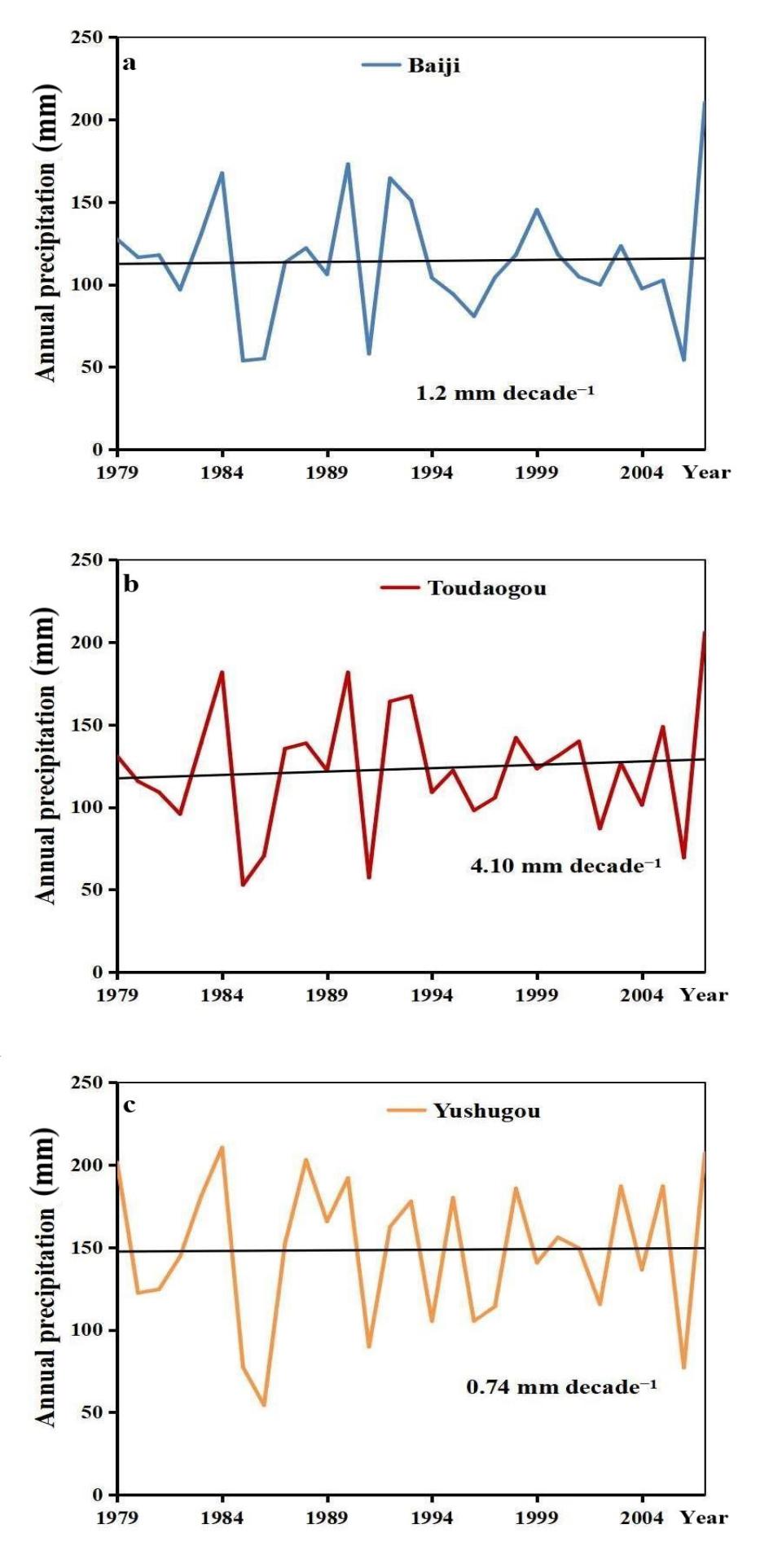


Figure S4. Variations of annual precipitation at the three hydrometric stations (Baiji, Toudaogou and Yushugou Stations) near Karlik Range.