

Relationship between the surface heating fields over the Qinghai-Xizang Plateau and the precipitation in the Sichuan Basin during summer

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Surface heating fields over the Qinghai-Xizang plateau were estimated using the 35 years (1961-1995) data set of 148 observation stations in the Qinghai-Xizang plateau and near area, the relationship between the surface heating fields over the plateau and the precipitation in Sichuan basin during summer is analysed. The results show that (1).There are obvious correlations between the surface heating over the Qinghai_Xizang plateau and the precipitation in the Sichuan basin during summer. (2).The anomaly of 500hPa atmospheric circulation over the Asia-Europe forced by the abnormal of the surface heating fields over the plateau is able to restrict the amount of precipitation in the Sichuan basin during summer.

Land surface (Poster)