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'Lake effect' on precipitaion over Tibetan Plateau observed by TRMM Precipitation Radar

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The diurnal variation of precipitation over the Tibetan Plateau was investigated with a focus on 'lake effect'. Over the Tibetan Plateau there exist a lot of lakes with different area sizes. TRMM was launched in November 1997 and more than eight year data have been accumulated, which allows the climatology of the diurnal variation of precipitation with high spatial resolution of the precipitation radar. Three hourly Eight year averaged precipitation distribution in monsoon season for 0.1 degree resolution was generated. Generally, over the lake, midnight to early morning precipitation is enhanced contrasting to the afternoon rain over wide land. The peak local time of the precipitation and the strength of the diurnal cycle depends on the area size of the lake. However, the total rain shows little difference. The precipitation over valley regions have also investigated. The valley region does not show clear morning rain.