

## **Diurnal Variations of Precipitation over Korean Peninsula**

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To document the diurnal variation of precipitation over South Korea more comprehensively, temporal and spatial characteristics of diurnal variations have been examined as a function of analysis period, month and precipitation intensity. The data used in this study is the hourly precipitation of 60 stations from 1973 to 2002. The space-time mean diurnal variation of hourly precipitation is characterized by the consistent and strong early morning peak with a weak late afternoon peak. And the magnitude of diurnal variation is considerably stronger during summer than other seasons. However, the number, time and amplitude of precipitation peak vary with the geographic locations, analysis periods, and the precipitation regimes. In general, the diurnal variation is more dominant at western and southern coastal region than eastern area. The increase of precipitation makes earlier the time of early morning peak.