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Spatial and temporal data integration in large scale hydrology: a gridded hydrometeorological data set for Peninsular Malaysia

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The integration of spatially and temporally varying data is an important step to formulate and generalize the large-scale relationships and feedback between atmosphere and hydrological processes. In this contribution, we present a moderate resolution surface hydrometeorological data set for Peninsular Malaysia. The data set is gridded from daily observation data at a grid size of 0.05 degree resolution ($\tilde{5}$.5km) for 1975-2005. The parameters include rainfall, temperature, pressure, humidity, wind speed and downward radiation. An overview of the integration and processing of the variety of data sources and data assessment is also presented.