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http://www.nws.noaa.gov/oh/mopex/mo_datasets.htm

ftp://hydrology.nws.noaa.gov/pub/gcip/mopex/US_Data/

The goal of the Model Parameter Estimation Experiment (MOPEX) is to assemble hydrometeorological and basin characteristic data for intermediate sized catchments worldwide. These data are not model specific, and are intended to be used to develop model parameters estimates for un-gaged basins having similar characteristics. The particular data set that I am familiar with is a combination of daily time series data for precipitation processed by the NWS Hydrology Lab, potential evaporation based on the NOAA Evaporation Atlas, and streamflow obtained from USGS National Water Information System. Currently the minimum time step requirement is daily, but finer resolution is desirable. One instance where finer time resolution streamflow and precipitation data would be particularly useful is estimation of parameters used to model post-fire hydrology. Runoff response in a post forest fire regime tends to be rapid, on the order of hours or minutes, and is lost on the daily time step.