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Gauging the ungauged catchment: which data are most valuable?

The PUB (Prediction in Ungauged Basins) initiative has highlighted the long-standing issue of streamflow estimation in ungauged basins. Recent studies demonstrate that a limited amount of field observations might provide valuable information to constrain runoff models for simulations in ungauged basins. Here the value of different types of data such as single streamflow gaugings, storage estimates or groundwater level observations is evaluated. This allows discussing which measurements taken when and where will provide most information and to relate this to the costs of the measurements.