



Comparisons of Annual Precipitation Gridded and Station Datasets: An example from Istanbul, Turkey

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Gridded precipitation data valuable for applied climatological research and monitoring. Gridded datasets are useful because they provide more spatial representation. In comparison to gridded data, station (point) datasets are irregularly distributed throughout space and frequently have periods of missing data.

In this study, annual precipitation gridded and point datasets are compared using meteorological stations in Istanbul, Turkey between the 1971 – 2007 period. We obtained annual precipitation gridded data from station data with nearest neighbour interpolation method using Matlab programme tools.

The main objective of this study is to demonstrate the differences between the two datasets and to clarify the significance of these differences for research in applied climatology.

Keywords: Annual precipitation, Gridded and point datasets, Istanbul