



Combining the knowledge of different distributed precipitation measurements in time and scale

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While station data is already available for a daily value since nearly hundred years, highly (in space and time) distributed data is only available for a shorter time period. Therefore there is a gap for longer time series which can be input for statistical analysis of small scale catchments and local processes like flash floods.

For that reason it is necessary to combine the knowledge of all of the historical data - even they are constantly changing in time and spatial distribution, as well as in measurement and calculation techniques.

To compare and merge the different data sources it is necessary to know about the measurement and editing processes and the limitations of each data sets in quality and precision. We – at the Wupperverband - are able to compare nearly 100 years of daily values, 50 years of higher distributed values of ombro- and pluviographs, 15 years of radar data, and some examples of disdrometer data.

Therefor the differences in statistic and modelling results can be compered and conclusions for the handling in practice and next research steps can be given.