



Dense network of disdrometers in an urban environment

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Dense networks of rain gauges in urban areas are scarce. The standard recommendation for the placement of a rain gauge is that the gauge is positioned at a distance corresponding to two to four times the height of any nearby obstruction to obtain a measurement that is representative for the surrounding area. In an urban area it is almost impossible to find a location that suits this recommendation. Rain measurements with a high spatial resolution are needed in urban areas to obtain a better understanding of urban hydrology. However, the costs of such a network may be prohibitive.

In recent years a low-cost disdrometer (below \$200,-) has been developed at Delft University of Technology. On the campus of the University, a dense network of these disdrometers is under construction. We will show the layout of the network, its boundary conditions and the first results.