



Using umbrellas as mobile rain gauges: prototype demonstration

Rolf Hut (1,2), Stijn de Jong (2), Nick van de Giesen (1,2)

(1) Delft University of Technology, Faculty of Civil Engineering and Geoscience, Delft, Netherlands (r.w.hut@tudelft.nl), (2) Disdrometrics, Delft, The Netherlands

The sound of raindrops falling on an umbrella is not only soothing, it is an indicator for rainfall intensity. We demonstrate a first prototype of an umbrella fitted with an acoustic rain gauge. By using umbrellas in this way, numerous moving rain gauges become available for precipitation monitoring in data-poor areas.