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Design of the HYREX raingauge network

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Abstract. Dense raingauge experiments in the past have experienced difficulties in the automated recording of rainfall amount and timing which with the benefit of modern instrument technology are now less problematic. The HYdrological Radar EXperiment, HYREX, provided a timely opportunity to design and implement a dense raingauge network in support of rainfall measurement and modelling research studies concerned with the use of weather radar in hydrology. The principles and random function theory underlying the design of this raingauge network over the Brue catchment in south-west England are detailed in this paper.

Keywords: raingauge, design, network, rainfall, flood, spatial correlation

[Final Revised Paper](#) (PDF, 3002 KB)

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