



High-resolution observations of rainfall: Potential for scaling studies

J. Ventura Figueras and H. Russchenberg

Delft University of Technology, Delft, The Netherlands

Delft University has developed a new scanning Doppler-polarimetric radar with the particular aim to enable observations at high spatial resolution (a minimum of 3 meter) and high sensitivity. The radar is located on the top of 200 meter high meteorological observation tower at CESAR Observatory. The radar is capable of measuring fog, drizzle and heavier rain. Approximately 50 days per year the radar is located inside low-level water clouds, which enables interesting measurements of the horizontal structures of such clouds. With its high resolution new observational studies of the scaling properties of rainfall structures become possible. The presentation will discuss the radar capabilities and its application to the study of rainfall structures.