

Future QPE: Dual-pol and Gap-filler Radars

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For years remote QPE efforts have been frustrated by poor radar sampling at low altitudes and the highly variable relation between radar reflectivity and rain rate. These challenges are being addressed with the forthcoming upgrade of the WSR-88D to include polarimetric capabilities and the development of low-power, low-cost polarimetric "gap-filler" radars. The maturation and deployment of these technologies promises fundamental changes to the way precipitation is estimated remotely, particularly in areas of complex terrain and sparse radar coverage. This presentation will discuss the development status and expected impacts of these new technologies.