

Comparison of polarimetric techniques for precipitation estimation in Serbia

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New dual polarization radar started to work on the Jastrebac location since September 2013. This is the second radar in Serbia with dual polarization, but the first with all dual polarization parameters (on the location Fruska Gora only ZDR is available). For data analysis and display we use Rainbow 5 software, which allow the rainfall intensity algorithm with and without using dual-poll parameters, and also the correction of data depend on meteor/non meteor classification.

This work is a preliminary study for the purpose of defining a best solution for radar based precipitation estimation. We used hourly and daily amount of precipitations from the rain-gauge network and compared them with the data obtained from the radar parameters using different algorithms.