One-minute integrated rainfall rate statistics from a rain gauge network in Colombia: accuracy of prediction methods

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L. Emiliani; L. Luini; A. Rolon All Authors

Abstract:
Reliable rainfall rate complementary cumulative distributions are critical for the design of microwave communications systems operating above around 8 GHz. This Letter presents the results of the analysis of more than 5 years of 1-minute integrated rainfall accumulation data for 12 stations. This new dataset will prove useful considering the sharing analyses that must be executed for IMT services in the 24.25-27.5, 37-43.5, 45.5-47, 47.2-48.2 and 66-71 GHz spectrum bands. The resulting statistics can complement the entries in the database of ITU-R Study Group 3 for the region.

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