

## **Statistical Modelling of 1-min Rain Rate Derived from 1-h Integration Time in Malaysia**

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**Received:** 19 May 2017 / **Accepted:** 29 December 2017 / **Published online:** 9 February 2018

**Abstract:** Statistical analysis of 1 min rain rate used in estimation of rain attenuation is presented. In rainy condition, the electromagnetic signal tend to experience serious degradation in satellite communication system that operate above 10 GHz. Prediction of 1-min rain rate requires conversion method from longer integration time is important due to its limited 1 min availability in most places. A linear model was proposed in this paper and compared with few existing model in Malaysia. The proposed model achieved good result for Malaysia data which is at par with established models such as Segal, Burgue~no, and Chebil and Rahman.