



## Original Paper

# Modeling of an Enhanced Rain Attenuation Prediction for Equatorial Region

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## Abstract

Presented in this paper is an empirical model for long-term rain attenuation prediction on slant path. The slant path prediction model is derived using data collected from tropical region and the formula proposed is based on Gaussian distribution. The proposed model shows a significant improvement over the existing prediction models with considerable reduction in RMS error as compared with other testing models.

## Keywords

Rain rate – Rain attenuation – Satellite communication – Radar data – Gaussian distribution