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Assessment of empirical conversion methods for producing 1-min integration time rainfall rate in Malaysia (Conference Paper)

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Abstract

This paper presents **assessments of empirical conversion methods** in obtaining cumulative distribution function of rainfall rate at 1-minute integration time. From collected measured data in Kuala Lumpur, cumulative distributions of rainfall rate at various integration times were compiled. Four **conversion methods** were selected in the **assessment** namely: Segal, Burgueno, Ismail et al and Polynomial. The generated 1-minute statistics using the mentioned four **empirical conversion methods** are then compared with measured statistics, in order to test its validity. Based on the **assessment**, it can be suggested that the Ismail et al and Polynomial **conversion methods** seem to be capable of **producing** rainfall rate statistics at 1-minute integration time with close approximation to the measured values. © 2014 IEEE.

Author keywords

1-minute integration time; **conversion method**; rainfall rate; statistical distribution; tropical region

Indexed keywords

Engineering controlled terms: Distribution functions; Polynomial approximation; Rain**Conversion methods:** Integration time; Rainfall rates; Statistical distribution; tropical region**Engineering main heading:** IntegrationISBN: 978-147995982-2 **Source Type:** Conference Proceeding **Original language:** EnglishDOI: 10.1109/ISTT.2014.7238242 **Document Type:** Conference Paper**Volume Editors:** Ismail M., Ramli N. **Sponsors:** **Publisher:** Institute of Electrical and Electronics Engineers Inc.

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