



SDI Review Form 1.6

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_46944
Title of the Manuscript:	Analysis and Modelling of Extreme Rainfall: A case study for Dodoma, Tanzania
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>1. How significantly does the volume of rainfall, time of day, season, and structure of event related to the model parameters functions of rainfall in scale climate controls? Should be considered.</p> <p>3. How parameter-per-level model performs well in terms of fine-scale extremes? Consider.4. How the empirically derived scale dependence leads to a model with few parameters? Consider.5. How simple model almost matches the performance of the original model? Consider.</p>	The paper used two approaches, Climate Extreme Indices and Extreme Value Distributions . Six indices of rainfall extremes were considered. Some of them are percentile based; very wet days (R95p) and extremely wet days (R99p). Indices which represent maximum value within a year; highest daily precipitation (RX1day) and highest 5 consecutive days precipitation amount (RX5day) were analysed. Indices which represent the number of days on which the rainfall value falls above a fixed threshold; heavy rainy days (R20) and very heavy rainy days (R50). A 2-parameter-per-level model performs well in terms of fine scale extremes . The simple model almost matches performance of the original model
Minor REVISION comments		
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	