Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	**Ms_AJPAS_43141**
Title of the Manuscript:	**ANALYSIS OF RAINFALL PATTERN IN THE WESTERN REGION OF GHANA**
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.
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SDI Review Form 1.6

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	Abstract: 1. 'The primary objectives for this paper is to examine the pattern of rainfall in the western region of Ghana' this statement could be better as 'The primary aim for this study is to examine the pattern of rainfall in the western region of Ghana' 2. 'An 18-month forecast for the mean actual rainfall and mean returns made showed that the fitted model is appropriate for the data and an increasing trend of rainfall for the forecasted period' Please, reframed the statement as 'The 18-months forecast for the mean actual rainfall and mean returns could showed that the fitted model is appropriate for the data and an increasing trend of rainfall for the forecasted period' and do same correction for line 434-436 accordingly. Line 20: Please write it properly as 238,540 km^2 Line 21: The acronym FAO should be defined when first used and when be used again, just use only the acronym. Please do same for all acronyms used accordingly. Line 31 to 33: 'However, to develop models to predict changing rainfall patterns or to utilize available forecast information, it is important to understand both the spatial and temporal extent of the declining and shifting rainfall pattern in the agriculturally important regions in mid-Ghana' Please this statement should be reframed to continuous tense in nature. Line 45: [2] cited in [4] should be reframed as [2, 4] and do same for all similar cases accordingly. Line 46: [12 & 10] should be reframed as [10, 12] and do same for all similar cases accordingly. Line 50-52: This statement here is powerful, so the source is required please. Line 97: 'Findings of this paper will be significant since farmers it will enable farmers to plan their…' Please reframed this statement because its sound incorrect. Please, all the equations used should be numbered from the first to the last.	Correction effected Authors made the necessary corrections Correction effected Corrections effected Corrections effected Corrections effected Corrections effected Corrections effected Corrections effected Corrections effected
Minor REVISION comments	Please, you could use more recent references and I suggest you find a way of citing and including this recent work on Variation in Annual Rainfall Data of 40 years (1978-2017) for South-South , Nigeria as one of your references; https://dx.doi.org/10.4314/jasem.v22i4.13	Suggestion adhered to
Optional/General comments	In this study the rainfall pattern in the Western Region of Ghana was identified by considering data for 10 years (from the years 2006 to 2016) from Ghana Meteorological Agency. The appropriate time series model for forecasting rainfall in the region was also obtained. The study also considered the trend of rainfall in the region and the estimation of an appropriate model which fits the rainfall for the period under consideration, also forecast for the rainfall for 2017 to 2018 was also determined. I think the authors did moderately well in this study, but would have been better using data from longer period say 30-40 so as to getting more accurate results for meteorological and other purposes.	The data collected were nominal daily rainfall recorded (1485) aggregated into monthly rainfall value (99 data point) from 2006 to 2016. Thanks for the advice, we shall consider this for subsequent paper in a broader view across some selected regions or zones in Ghana.