#### SCIENCEDOMAIN international

www.sciencedomain.org



#### **SDI Review Form 1.6**

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_42778
Title of the Manuscript:	Behavioral Analysis of Daily Rainfall Pattern in Katsina
Type of the Article	Review Paper

## **General guideline for Peer Review process:**

This journal's peer review policy states that <u>NO</u> manuscript should be rejected only on the basis of '<u>lack of Novelty'</u>, 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)

Created by: EA Checked by: ME Approved by: CEO Version: 1.6 (10-04-2018)

### SCIENCEDOMAIN international

www.sciencedomain.org



# **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)
Minor REVISION comments	<ul> <li>I'm not comfortable with the use of "Behavior" in title due to the meaning attached to the term. I would strongly recommend "Analysis of the characteristics"</li> <li>Line 15: I don't see how meterological and hydrological studies are natural reseources. This sentence on lines 14&amp;15 need rephrasing</li> <li>line 73: "mathematically" rather than "mathematical"</li> <li>I contest arguments presented in lines 78&amp;79 "While a positive" Correlation is understood as a measure of linear association</li> <li>I don't know why the author(s) neglected the parameteric analysis e.g. using regression. It is normally recommended that one conducts both parameteric and non-parameteric tests to confirm a trend</li> <li>I'm wondering whether Fig. 1. is a result or its an adapted figure. If it's an adapted figure, I don't see referencing it in caption. Besides it's not well explained in text.</li> <li>line 200: "mathematically" rather than "mathematical"</li> <li>Results:</li> <li>I have a comment on results presented in Table 2. I feel due to high variability of rainfall, it would have been better to present these results in less variable scales e.g. seasonal or at least monthly. E.g. it makes little sense to present be no. of Zero rainfall (please not we prefer to call it "NILL") as 86.8% makes little sense compared if you had presented i.e. " % of nill rainfall per year". Similarly mean anual rainfall using daily rainfall is less important again due to the large variability of rainfall. It would be better to compute daily mean rainfall and present it in terms of seasons.</li> <li>The labelling of vertical axes for Fig. 2 are not clear. Fig. 2(d) better call it "rainfall anomalies" rather than "differenced rainfall time-series". I also have a concern with this Fig. 2(d) the method of obtaining these anomalies is not presented. Why?</li> <li>Still on Fig.2. I'm not happy with the labelling of x-axis as "days" even Fig.2(c). One prefers to see the actual dates/months/years depending the scale. This is somethi</li></ul>	
Optional/General comments		

### **Reviewer Details:**

Name:	Isaac Mugume
Department, University & Country	Makerere University, Uganda

Created by: EA Checked by: ME Approved by: CEO Version: 1.6 (10-04-2018)