

## Review Form 1.6

Journal Name:	<a href="#">Journal of Geography, Environment and Earth Science International</a>
Manuscript Number:	Ms_JGEESI_79868
Title of the Manuscript:	Incidence Land Use Change on Flooding and River Bank Erosion in Ngoketunjia Division, North West Region, Cameroon
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:

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Compulsory</b> REVISION comments	<p>1. In figure 1 where Ngoketunjia Division is presented, the map lacks its scale bar. It is recommended to add the appropriate scale bar. Also, as far as the legend is concerned, please remove the .shp ending from the explained information. In the caption, an "of" has been spotted written as follows: "oof". Please, make the appropriate changes.</p> <p>2. You state that: "Other scientific works were consulted so as to well fit the study in context". Is it possible to clarify which scientific work you mean, as well as to give the appropriate citation for this work?</p> <p>3. You state that "land use maps of 1980, 1992, 2004 and 2016 were matched with Landsat images indicating changes in human activities and river channel alteration over time." Is it possible to clarify whose publication is these maps and also provide the appropriate citation?</p> <p>4. In section "3.1 Land use change and Flood incidence" in sentence "According to the Table, 51.56% of the population perceived that land use change has led to increase in flood frequency in the Division while 38.8% believed that it has no impact." Make the following addition "According to the Table 2, 51.56% of the population...". Moreover, it is highly recommended to devote a certain section about the results of the questionnaires, and not present results in other sections if the results have not already been presented and discussed.</p> <p>5. In figure 6, it has been observed that the neutral option as an answer is not characterized by a percentage, in almost every case. This might be the reason why some cases do not sum to around 100%. For instance, the case "We travel by public transportation" sums at 96.88% (71.88+11.72+10.16+3.12). The same concerns the composite score. Is it possible to clarify why?</p> <p>6. In section "3.2.2 Land use change and river bank erosion based on field survey" the presented numbers are not in agreement with figure 9. Please, make the appropriate changes or clarifications.</p> <p>The manuscript titled: "Incidence Land Use Change on Flooding and River Bank Erosion in Ngoketunjia Division, North West Region, Cameroon" presents an interesting study which examines the hydro-geomorphological implications of land use changes in Ngoketunjia Division as well as the implications of land use change on the incidence of flooding and river bank erosion. The authors, first, determined the net change of land use assets in Ngoketunjia Division by comparing the land use assets for the year 1980 and 2016. For this reason, Landsat images were used in comparison to Google Earth images for the analysis of river bank erosion along the section of the Upper Noun River, in association with field observations. Flood hazard zones were delimited and were distinguished into two categories, a high flood frequency and a low flood frequency zone. Meanwhile, two-stage random sampling technique was used to administer questionnaires to 384 household heads who were predominantly farmers and occupants of flood prone areas. The questionnaires were formulated and rated based on the 5-points Likert scale and concerned the following thematic: susceptibility, resilience, and exposure to flood hazard. The obtained data were statistically analyzed using the Pearson's Product Moment Correlation Coefficient (r) to test the nexus between the incidence of flooding and agricultural land use change, followed by the Spearman Rank Correlation Coefficient (rho) in order to test the nexus between the incidence of flooding and settlement land use. The P-P Plot, Q-Q Plot and histograms of the variables were used to assess the normality of the data due to the relatively large sample size.</p> <p>The presented research corresponds to the aims and scopes of the Journal of Geography, Environment and Earth Science International. The manuscript is quite well</p>	

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	<p>written. The fine use of the English language makes the manuscript understandable; however, some insignificant comments have been made. The introduction is well written, providing sufficient background information, including all relevant references and clarifying the aims and objectives of the research. The presented methods are adequately described, providing a completed research. The results are presented by clear and comprehensive figures and tables. However, some changes and clarifications are recommended. The conclusions of the research are supported by the results, however, some additions are suggested.</p>	
<p><b>Minor</b> REVISION comments</p>	<ol style="list-style-type: none"> <li>1. In section “Abstract”, in sentence “Man in his unlimited quest for a good life through varied activities and land use change has become an important geomorphic agent.”, please make the following change: “... and land use changes have become...”</li> <li>2. In section “Introduction” please replace the sentence “The Divisions harbours the UNVDA, an agro-industrial complex that has transformed some areas of the plain into paddy fields.” as follows: “The Divisions harbours, the UNVDA, is an agro-industrial complex that has...”</li> <li>3. Several lines below a red colored comma has been spotted. Please change the font color to black. In the same paragraph a blue dash has also been spotted. Please, make the same changes as before.</li> <li>4. Before the heading “3.1.2 Impact of land use change on exposure of humans and their assets to floods” a dot has been forgotten. Please remove it.</li> <li>5. In Table 3, in the second row you write “1/Babessi”. Is it possible that you meant to write Babessi? Also, a dash has been forgotten in “Impact” column, 4th row.</li> <li>6. Tables 4 and 5 contain a miswritten form of decimal numbers, as follows “.775”. The same mistake has been spotted thought out the manuscript, in some sections. Please make the appropriate changes.</li> <li>7. In sentence “This strong positive correlation between the variables imply that as agricultural...”, the correct verb use of imply, in the aforementioned sentence is as follows: “This strong positive correlation between the variables implies...”. The same has been observed some sentences below where you state: “...the incidence of flooding of 0.629 imply that...”</li> <li>8. It is recommended to pay attention to the numbering of the manuscript’s sections. The numbering is not coherent. For instance, section “Conclusions” should be the forth section, not the fifth.</li> <li>9. As far as the section “References” is concerned, it is suggested that the font color of each citation is black.</li> </ol>	
<p><b>Optional/General</b> comments</p>	<ol style="list-style-type: none"> <li>1. In section “Conclusions” it has been observed that you do not include same percentage coefficients as you do in section “Abstract”. It is suggested to add the coefficients of determination which are stated in “Abstract”. It is also recommended to conclude the surface area that converted to farmlands and settlements, for the same reason.</li> <li>2. Is it possible to provide the P-P plot, Q-Q plot and histograms in a Supplementary material document? It is suggested in order to present a more structured research.</li> </ol>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes. Kindly please write down the ethical issues here in details)</i>	

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