

Review Form 1.6

Journal Name:	Journal of Geography, Environment and Earth Science International
Manuscript Number:	Ms_JGEESI_84578
Title of the Manuscript:	Participatory Geographic Information System (PGIS) Mapping; an Integrated Flood Management Tool in the Flood Prone Areas of Kano Plains, Nyando Sub-county, Kisumu County, Kenya
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:

(<https://www.journalgeesi.com/index.php/JGEESI/editorial-policy>)

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	<ol style="list-style-type: none">1. There is no clarity on how the classification breaks is given for rivers/drainages for flood vulnerability index. The authors can also add drainage density parameter for generating vulnerability map.2. The authors can also use the flood frequency map in the kano plains from the past datasets and classification breaks can be given according to the frequency (higher frequency higher the index).3. There is no validation seen in the study for the map. The author has mention in conclusion point no 2 that there is Community identified flood prone areas coincided with the traditionally mapped flood prone areas of Kano plains in the GIS platforms, either add the community identified prone map if there or use Synthetic Aperture Radar Satellite images at the time of floods for identifying the flood in the study area. This will give a validation.4. The authors can use the Analytical Hierarchy Process (AHP) for assigning weightages.	<div>Noted</div> <div>Okay</div>
Minor REVISION comments	<ol style="list-style-type: none">1. Give the details of DEM used and acknowledge the source.2. In table no 5. In Flood vulnerability Index column keep either high to low (5-1) or low to high (1- 5) order, it should be uniform for all parameter.3. The title of figure 4. Should change to Slope map for Kano plains.4. All the figures should be in at least 300 dpi and above, some of the figures are blur.5. There is no full form mentioned for AHP.	<div>Noted</div> <div>Okay</div>
Optional/General comments		

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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?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	