



SDI Review Form 1.6

Journal Name:	Journal of Geography, Environment and Earth Science International
Manuscript Number:	Ms_JGEESI_48969
Title of the Manuscript:	Role of relief and slope in Agricultural Land use: A case study in Valapattanam River basin in Kannur District, Kerala using GIS and Remote Sensing
Type of the Article	<u>Original Research Article</u>

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>)



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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>The aim of the study is clear. However, I think the manuscript is flawed with technicalities:</p> <ol style="list-style-type: none"> 1. There is inadequate theory supporting the study. Inadequate literature supporting the research 2. The introduction failed to define the research problem leading to the study. Neither did it spell out the significance and the justification of the research 3. The study did not show in depth knowledge of the application of Remote Sensing and GIS. 4. The methodology has several shortcomings e.g.: <ol style="list-style-type: none"> a) What type of Landsat imagery was used, when was it acquired, what is the resolution? b) No explanation on pre- processing, image processing, image classification and accuracy assessment and post classification. This is important because in Fig.4 I see river(water body) classified as forest c) No explanation on spatial analysis performed d) It lack statistical analysis that establish any relationship and or correlation between the response and predictors. Hence did not establish any quantitative relation between slope and relief with agricultural land use etc. 5. The manuscript lacks reliable data and robust interpretation of data 6. No thorough discussion w.r.t the aim of the research 7. No relevant and current references are provided in the discussion 8. The result cannot be said to be cause and effect relationship. Area covered by a particular crop may not be determined by slope or relief. It may be other factors such soil suitability or closeness to a water source etc. otherwise author should prove. 9. Hence, the conclusion cannot be said to be born of relevant results and discussions 10. References: <ol style="list-style-type: none"> a) Most references are not cited in text e.g Brinkman R (1998 Doi R.D. (1990), Farida Perveen, Ryoa Nagasawa, Md.Imtiaz Uddin and Hossain K.M.Delowar(2005), Gastellu-Etchegorry, J. (1990), Gautam N.C (2002), Howard, J., (1991), Jensen, J., 1986, Joshi P.K, Hu etc. b) Some in-text citations are not referenced e.g Brinkman and Smyth, 1973 and FAO, 1995) c) Some citations are referenced inappropriately 	<p>Thank you for your valuable comments</p> <p>All the comments made were already properly explained. All the classifications done are correct to the Land Use scenario of Kerala and verified by Field study with GPS survey . Valapattanam river basin is having a narrow valley and the valley side are occupied by mixed crops. No where a water body is classified as Forest in this research paper.</p> <p>Regarding comment 10 reference has been rearranged and they are included in the text at appropriate places.</p>
Minor REVISION comments	<ol style="list-style-type: none"> 1. Results and discussion should be titled as such 2. Tables should be captioned appropriately e.g. Table1. Valapattanam River Basin: Relief 3. Figures need to be well captioned and labelled appropriately 4. Can the author explain the use of conventional map for delineation instead of the available high resolution Global DEM's like ASTER 5. Graph 1&2 and Table 4 & 5 actually do show relationship between agricultural land use and slop, and relief. Rather it shows portions of land with specified Relief and slopes cultivated with particular crop types 	<p>Tables, Figures and Graphs are properly captioned as suggested. Here author is not expected to evaluate Aster DEM. DEM is created from contours. It is sufficient for this study. If I go for micro level study, suggestion of Aster DEM and its use is valid. Other suggestions made are corrected and revised draft is submitted.</p>
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>	

As per the guideline of editorial office we have followed VANCOUVER reference style for our paper.

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