

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_112425
Title of the Manuscript:	Modelling soil erosion using RUSLE and GIS for Kadalundi river basin
Type of the Article	Original Research Article

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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 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u>	<p>Yes, it is very interesting to estimate the potential average annual soil loss using RUSLE model and to prepare the spatial distribution map of soil erosion hazard using GIS to suggest suitable soil conservation and management measures</p> <p>Yes, it is</p> <p>Yes, it is</p> <p>Generally, the structure of the manuscript is appropriate, but I suggest to eliminate some titles the manuscript is correct scientifically,</p> <p>the number of references is sufficient</p>	<p>Thank you for the nice comments. I have tried my best to incorporate the suggestions.</p>
Minor REVISION comments 1. Is language/English quality of the article suitable for scholarly communications?	<p>English quality of the article suitable, but some phrases should be controlled</p>	
Optional/General comments	<p>The paper is showing good results which should be well interpreted; it contains also the most elements required for completed research. Therefore, this work should be accepted after major revision.</p> <p>The paper entitled Modelling soil erosion using RUSLE and GIS for Kadalundi river Basin.. The main target of this study is interpretation results of the soil erosion data of the Kadalundi river basin by using RUSLE model incorporated with GIS. A standard analysis of spatial-temporal trends assessment the potential average annual soil loss from the basin to suggest suitable soil conservation and management measures for the basin.</p> <ul style="list-style-type: none"> This paper presents a concrete case study in India using real data, and shows a good results ; Abstract, introduction and conclusion are well represented; Methodology and The interpretation of results is not clearly expressed, it should be revised; that what they presented are observation; a simple reading of maps and not real discussion of results; The authors used a set of soil erosion data, I suggest adding the statistical analysis in order 	<p>The field validation is often difficult for the RUSLE model since it does not consider sediment deposition. Therefore, I added the erosion statistics concerning slope and land use, which was done in ArcGIS.</p>

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	<div>to establish the correlation between the different parameters;crop system, management practice, soil type, rainfall pattern, and topography before starting the modelling part;</div> <div><div><div></div></div><div>The authors mention theatrically detailed for each factor and the correlation between various parameters the soil erosion data during 2001 to 2021, which would be of interest to many readers.</div></div> <div><div><div></div></div><div>Presently this correlation is though not clearly demonstrated, due to the lack of superposition of the geological main features and the results of the of the soil erosion analysis;</div></div> <div><div><div></div></div><div>The authors are invited to make this point clearly by adding the main geological feature and giving a short description of the lithology and soil type</div></div> <div><div><div></div></div><div>The figures should be revised</div></div>
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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?	<div>(If yes, Kindly please write down the ethical issues here in details)</div>	