

**Review Form 3**

Journal Name:	<a href="#">International Journal of Environment and Climate Change</a>
Manuscript Number:	Ms_IJECC_127165
Title of the Manuscript:	Assessing the Decadal Dynamics in Land Use and Land Cover (LULC) of Ferozapore nallah Watershed in Kashmir valley using Geospatial Techniques
Type of the Article	

**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This manuscript provides valuable insights for the scientific community, particularly in the fields of environmental science and watershed management. By examining the decadal land use and land cover (LULC) dynamics within the Ferozapore Nallah watershed in Kashmir, it highlights the significant changes driven by both natural and human activities over a 20-year period. This study's findings could aid policymakers in making informed decisions about sustainable land use and resource management, especially in sensitive mountainous ecosystems. Additionally, its use of remote sensing and GIS for change detection is a relevant methodological approach, demonstrating the power of these tools in analyzing spatial and temporal environmental transformations	
Is the title of the article suitable? (If not please suggest an alternative title)	The topic given is suitable for the research but author(s) may consider "Geospatial Analysis of Land Use and Cover Dynamics in Ferozapore Nallah Watershed, Kashmir Valley (2001–2021)" which includes the location and time at a glance.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract provides a solid overview of the study, including the purpose, methods, key findings, and implications. However, a few refinements could improve its clarity and completeness: <b>Suggestions for Improvement</b> <ol style="list-style-type: none"> <li><b>Add Contextual Background:</b> Briefly introduce the significance of monitoring LULC changes in watershed regions. This will provide context for why this study is relevant.</li> <li><b>Clarify the Methodology:</b> The abstract mentions "supervised classification with maximum likelihood" but could specify if accuracy assessments like kappa coefficient were used here to validate the results (as they are significant in the main text).</li> <li><b>Summarize Results More Effectively:</b> Rather than listing exact percentages for each LULC change, consider grouping or summarizing significant findings. For example: "The analysis revealed notable reductions in agriculture, forest, and marshland areas, alongside increases in horticulture, built-up regions, and barren land."</li> </ol>	
Are subsections and structure of the manuscript appropriate?	Yes	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	This manuscript demonstrates scientific robustness through its well-defined methodology, employing remote sensing and GIS techniques that are widely accepted for land use and land cover (LULC) change detection. The use of a supervised classification approach with a maximum likelihood algorithm is appropriate for the analysis, and the incorporation of accuracy assessments, such as overall accuracy and kappa coefficients, supports the reliability of the findings. The selection of high-resolution Landsat imagery and the careful choice of timeframes (2001 and 2021) provide a solid foundation for comparing decadal changes. Furthermore, by documenting the anthropogenic and environmental factors influencing LULC dynamics in the Ferozapore Nallah watershed, the study offers scientifically valid insights that contribute meaningfully to watershed management and sustainable land use planning.	

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<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p> <p>-</p>	<p>The references in the manuscript are generally relevant, covering essential aspects of land use and land cover (LULC) change detection, remote sensing, and GIS methodologies. However, while many references are foundational, there may be a need for more recent sources, particularly studies from the last five years that address advancements in remote sensing or similar LULC analyses in comparable regions.</p>	
<p><u>Minor REVISION</u> comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>The language quality of the manuscript is generally adequate for scholarly communication, as it presents concepts clearly and uses technical terminology appropriate for the field. However, some areas could benefit from refinement to enhance readability and precision. Occasional grammatical errors and minor issues with phrasing slightly affect the flow and clarity, especially in sections like the abstract and results. For example, sentences could be simplified or restructured to improve conciseness, and consistent terminology should be applied throughout the text. A careful proofreading or language editing pass, focusing on sentence structure, grammar, and word choice, would elevate the manuscript's quality and make it more polished for a scholarly audience.</p>	
<p><u>Optional/General</u> comments</p>		

**PART 2:**

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

**Reviewer Details:**

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