

Review Form 3

Journal Name:	Journal of Geography, Environment and Earth Science International
Manuscript Number:	Ms_JGEESI_122129
Title of the Manuscript:	Contribution of fractional cover analysis for monitoring degraded ecosystems at the watershed level
Type of the Article	

Review Form 3

PART 1: Review Comments

Compulsory 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>
<p>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.</p>	<ul style="list-style-type: none"> • The manuscript "Contribution of Fractional Cover Analysis for Monitoring Degraded Ecosystems at the Watershed Level" is significant for the scientific community because it offers a novel methodology for assessing and tracking ecosystem degradation using fractional cover analysis. • This approach provides a more nuanced and quantifiable measure of land cover changes compared to traditional methods, enabling more precise monitoring of environmental health and recovery efforts. • I appreciate this manuscript for its practical application and innovative use of remote sensing data to address complex ecological issues. • By advancing our ability to evaluate and respond to ecosystem degradation at a watershed level, the research holds substantial potential for improving land management and conservation strategies. 	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<ul style="list-style-type: none"> • The title "Contribution of Fractional Cover Analysis for Monitoring Degraded Ecosystems at the Watershed Level" is clear and informative, but it could be refined to better capture the focus and impact of the research. An alternative title might be: • "Enhancing Watershed-Level Ecosystem Monitoring through Fractional Cover Analysis of Degraded Landscapes" 	
<p>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.</p>	<ul style="list-style-type: none"> • Highlight the main findings more clearly, specifying how the NDFI values relate to degradation and recovery processes. • Simplify the description of the methodology to make it more accessible. 	
<p>Are subsections and structure of the manuscript appropriate?</p>	<ul style="list-style-type: none"> • Introduction section add 8-10 more references • Discussion section add 7-9 more references • Rewrite conclusion section 	
<p>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.</p>	<ul style="list-style-type: none"> • The manuscript "Contribution of Fractional Cover Analysis for Monitoring Degraded Ecosystems at the Watershed Level" demonstrates scientific robustness and technical soundness through its use of established methodologies and rigorous analysis. • The application of spectral mixture analysis and the Normalized Difference Fraction Index (NDFI) for quantifying fractional coverages is well-supported by remote sensing principles and provides a quantitative basis for assessing ecosystem degradation and recovery. • The use of Google Earth Engine for data processing further strengthens the study by leveraging advanced computational tools to handle large-scale datasets efficiently. • Additionally, the manuscript's focus on correlating NDFI values with specific degradation indicators, such as loss of photosynthetic activity and increased bare soil, shows a thorough and systematic approach to analysing complex ecological changes. • These factors collectively underscore the scientific validity and technical rigor of the research. 	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<ul style="list-style-type: none"> • References not sufficient • Add introduction section 8-10 more references • Add discussion section 7-9 more references 	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	<ul style="list-style-type: none">• Yes, it is suitable for scholarly communications	
<u>Optional/General</u> comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with the 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?	<ul style="list-style-type: none">• No	

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