

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_128394
Title of the Manuscript:	Dynamics of spatio-temporal occupation of biological soils crusts in the Saria catchment (West-central region of Burkina Faso) using Remote Sensing and Geographic Information Systems approach
Type of the Article	

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PART 1: 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. A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
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.		
Is the manuscript scientifically, correct? Please write here.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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<p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>Review comments</p> <p>Title: Dynamics of spatio-temporal occupation of biological soils crusts in the Saria catchment (West-central region of Burkina Faso) using Remote Sensing and Geographic Information Systems approach</p> <p>Comments:</p> <ol style="list-style-type: none"> 1. The term "biological crusts" is used in the manuscript, but it would be helpful to briefly define what is meant by "biological crusts" for readers who may not be familiar with the term. 2. The manuscript mentions the use of Landsat-8 OLI/TIRS images and fieldwork, more information on how these tools specifically contribute to mapping biological crusts would be useful 3. The introduction provides valuable context but could be more concise by consolidating overlapping information on soil crust formation. A stronger link between the study's focus on spatio-temporal dynamics and its practical implications for soil conservation in Burkina Faso would enhance its relevance. 4. The description of the study site and methodology is generally clear, but a few points could be refined for better clarity and workflow can be provided. 5. The detailed description of soil types, land use units and biological crust dynamics is well-organized, but the discussion on biological crust coverage could benefit from a clearer connection between the observed patterns and their ecological implications. 6. The conclusion effectively summarizes the main findings and emphasizes the utility of remote sensing and GIS for assessing biological crust dynamics. However, the suggestion to map soil types using high-resolution Sentinel-2 images could benefit from further clarification on how this would improve the current methodology, particularly in relation to detecting biological crusts. 	

PART 2:

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

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