

Review Form 1.7

Journal Name:	Asian Journal of Research in Agriculture and Forestry
Manuscript Number:	Ms_AJRAF_102513
Title of the Manuscript:	THERMODYNAMIC ENTROPY: A NATURAL METRIC FOR LANDCOVER CLASSIFICATION
Type of the Article	

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:

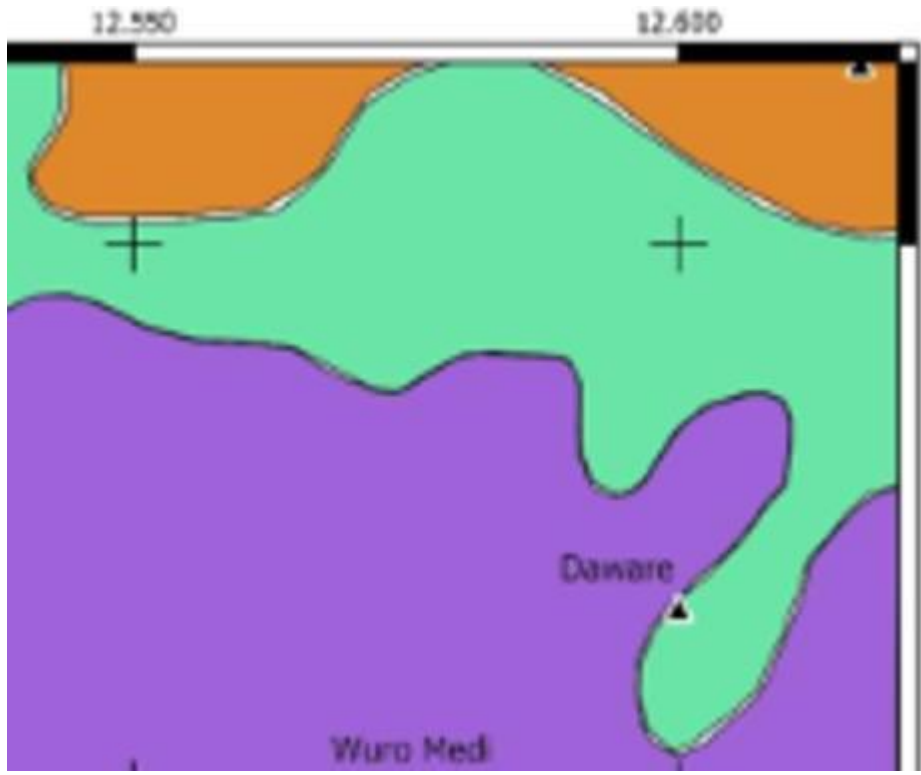
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PART 1: Review Comments

	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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript holds significant importance within the scientific community due to its contribution of new ideas in the field of landcover mapping. However, it lacks a comprehensive description of both the study's importance and background. It is crucial to enhance the background and reasoning to better elucidate the significance of the research. Additionally, a more detailed description of the study's merit for the scientific community would be beneficial.</p> <p>Already suitable</p> <p>The abstract requires revision to include essential elements such as the study's background, importance, aims, methods, results, and findings. It is necessary to incorporate the fundamental idea behind the study's background and provide a clear understanding of its significance. Additionally, outlining the objectives, methodologies employed, and the obtained results and findings will enhance the abstract's comprehensiveness.</p> <p>yes</p> <p>There are several aspects that require improvement to ensure scientific soundness and appropriateness. List will be provided after point 6.</p> <p>It needs to incorporate more recent studies on land surface temperature or entropy. Here several study close to it:</p> <ul style="list-style-type: none"> <input type="checkbox"/> DOI: 10.3390/e22101132 <input type="checkbox"/> DOI: 10.1134/S1028334X19070262 <p>1. The introduction requires enhancement in several aspects. It should encompass the state of the art, highlight the significance of the study in scientific realms, and provide clear and unambiguous statements regarding the motivation behind conducting this research. Furthermore, incorporating previous studies in the field and emphasizing the distinctiveness of the present study would be valuable additions.</p> <p>2. The study's maps (figure 1) need to be clarified to enhance the understanding of the general conditions of the area and its surroundings. This will provide a spatial perspective of the region under investigation. For instance, including a country map as an inset and utilizing an appropriate method to indicate the study area will help to clearly define the geographical context.</p> <p>3. Please ensure the creation of a cartographically accurate soil map (Fig. 4) by addressing the remaining topological errors. The presence of such errors is inappropriate for a scientific publication.</p>	

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	 <p>4. The conclusion requires revision to align with the study's purpose. As mentioned in the introduction, the study intends to employ surface entropy flux (SEF) techniques for landcover classification in the study area. Therefore, the conclusion should explicitly address the results and outcomes concerning the feasibility of using SEF for landcover classification, including an assessment of its accuracy. Additionally, a comprehensive discussion regarding these questions should be included in the results and discussion section to provide a thorough analysis of the findings.</p> <p>5. It needs comprehensive discussion as mentioned in point 4 above, as well as comparison with another land cover classification method</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>It is sufficient for making a significant scientific contribution.</p>	
<p>Optional/General comments</p>	<p>This manuscript requires serious major revisions to ensure its scientific soundness.</p>	

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)
<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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