

Paper: “Impacts of Land Use Change on Urban Heat Islands in Kribi, Cameroon: Assessing Vulnerability and Adaptive Strategies”

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Peer review:

Reviewer 1: Pinnawala Sangasumana
University of Sri Jayewardenepura, Sri Lanka

Reviewer 2: Blinded

Reviewer B:

Recommendation: Revisions Required

The TITLE is clear and it is adequate to the content of the article.

The title does not reflect the research problem and objective of the research. Impact of Landuse Change on Heat Island Increase: A Case syudy of

The ABSTRACT clearly presents objects, methods, and results.

The abstract provides valuable data but lacks clarity in articulating the broader implications of findings and their relevance to urban planning or policy. It primarily reports past changes without addressing future projections or offering a strong predictive model for UHI trends, which could limit its utility for long-term planning. Additionally, the reliance on air conditioning as a mitigation measure is noted but without critical evaluation or sustainable alternatives. The research problem should be highlighted accordingly in the abstract.

There are a few grammatical errors and spelling mistakes in this article.

Corrections done with the text itself

The study METHODS are explained clearly.

The questionnaire involves 200 residents, but it's unclear whether this sample represents Kribi's diverse population and varied economic or social vulnerabilities. A larger or more stratified sample might yield more comprehensive insights into different social groups' exposure and adaptive capacity. The study reports past and present land use and temperature changes without projecting future UHI scenarios. Including modeling for future urbanization, climate change impacts, and UHI growth would add valuable foresight to the study, especially for policymakers.

The body of the paper is clear and does not contain errors.

The use of imagery from 2015, 2017, 2019, and 2023 may provide insights into general trends but might miss finer changes in land use and temperature dynamics. Additional annual or seasonal data points could provide a more granular analysis of UHI evolution and responses to climate conditions. Google Earth and Landsat imagery are valuable but may have limitations in resolution, accuracy, and applicability to local microclimates in Kribi. Higher-resolution satellite data or ground-based temperature sensors could yield more precise spatial analyses of heat islands and capture finer temperature variations.

The CONCLUSION or summary is accurate and supported by the content.

The summery should be alligned with above given comments.

The list of REFERENCES is comprehensive and appropriate.

Satisfactory level

Please rate the TITLE of this paper.

[Poor] 1-5 [Excellent]

4

Please rate the ABSTRACT of this paper.

[Poor] 1-5 [Excellent]

4

Please rate the LANGUAGE of this paper.

[Poor] **1-5** [Excellent]

4

Please rate the METHODS of this paper.

[Poor] **1-5** [Excellent]

4

Please rate the BODY of this paper.

[Poor] **1-5** [Excellent]

4

Please rate the CONCLUSION of this paper.

[Poor] **1-5** [Excellent]

4

Please rate the REFERENCES of this paper.

[Poor] **1-5** [Excellent]

5

Overall Recommendation!!

Accepted, minor revision needed

Comments and Suggestions to the Author(s):

Given comments applicable
