

Review of: "A QGIS Grid-Based Study to Understand the Relationship Between Land Surface Temperature and Greenness in Urban Areas"

Kottala Raghu Babu¹

¹ Yogi Vemana University, Cuddapah, India

Potential competing interests: No potential competing interests to declare.

Title of the Article: A QGIS-based study to understand the relationship between Land Surface Temperature and Greenness in Urban Areas.

Name of the Reviewer: Prof. K. Raghu Babu, Dept. of Geology, Yogi Vemana University, Kadapa, A.P., India.

Abstract: The relationship between greenness and land surface temperature and its analysis using QGIS is explained. But the abstract should be more elaborate to explain the gist of the whole study in the present article.

Introduction: The purpose of the study was given, but no reference was quoted. If the authors wish to give a statement, that should be supported with a reference. It is lacking in this part. Hence, I suggest improving the introduction with supporting references.

Methodology: Using a Landsat image for the present study is good and appreciated. The detailed methodology presented with all screenshots is nicely done. The calculation part of NDVI and Land Surface Temperature was also nicely given in the form of screenshots. Maps are good.

Results: The observations made using QGIS indicate the lowering of temperature with an increase in greenness. Maps prepared accordingly are good and self-explanatory.

Discussion and Conclusion: The discussion and conclusions made are in accordance with the study made in the article. The discussion is well supported with references. The results obtained in the present study show a positive correlation between LST and NDVI, while those made earlier are negatively correlated as per the references given by the authors. Hence, I suggest the authors re-verify the results with the studies in other regions.

References: Sufficient.

The article may be accepted after the slight modifications I suggested in the Abstract and Introduction, and if it fulfills all the requirements of the journal.