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| Book Name: | [**Geography, Earth Science and Environment: Research Highlights**](https://www.bookpi.org/bookstore/product/geography-earth-science-and-environment-research-highlights-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4942** |
| Title of the Manuscript:  | **Assessment of Spatial Expansion of Rift Valley Lakes Using Satellite Data** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Advances in Remote Sensing, 12(3): 88-98, 2023.**

**DOI: 10.4236/ars.2023.123005**

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **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.** | By using different classification techniques, the results were able to provide a smooth line graph to show the change of Lake Nakuru area. Spatial distribution maps of the lake showed different images of the lake in each of the classification used, though the graph of the area of the shapefile is assumed to be more accu- rate because it’s whereby the lake is calculated before any classification is per- formed on the image and is used to correlate the area of the lake with the other methods. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | Yes title is suitable |  |
| 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. | Abstract should be rewrite and it should be informativeAbstract (Should be rewrite) The present work assessed the expansion and fluctuation of Lake Nakuru in Kenya by using satellite data and information. Surface water magnitude was measured from optical sensors, such as Landsat. ENVI software was used to process and analyze data from the satellite images. The data was then used to create shapefile to get the area of the lake only. The shapefiles were classified using both Supervised and Unsupervised classification, and the area of the lake was obtained in hectares. The obtained area in hectares was recorded in a table and graphs were plotted to show the trend of the lake in the years 1972-2019. Furthermore, correlation was done by assuming the area of the shape file before any classification is more accurate, therefore it was compared with the other results obtained by using different methods. Maximum like- lihood gave the best correlation values. For R2 it gave 0.8627 and R was 0.9312. Here authors should added why this study is needful.  |  |
| **Is the manuscript scientifically, correct? Please write here.**  | 1. The authors should rewritten discussion part it is not enough
 |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | 1. The authors should add more references.
 |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes  |  |
| Optional/General comments |  1. The authors must be compared this results with the other works
2. The authors rewire the sentence in Introduction and same sentences in Material and Methods that is “The Lake is within Lake Nakura national Park and is served by five main river----------, delete this sentence from Material and Method and rewrite it.
3. The authors should remove name of the lake from Data and Processing Tool
4. The authors should added Landuse Map of study area.
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| **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?**  | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewers:**

**Snehal Juare, Rashtrasant Tukdoji Maharaj Nagpur University, India**