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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\_5120** |
| Title of the Manuscript: | **A Study of Spatial and Temporal Variations of Climatic Variables during Sand and Dust Storm Events in Riyadh Using in-Situ Observations** |
| 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.**

**International Journal of Environment and Climate Change, 15 (3): 381-399, 2025.**

**Available:** [**https://doi.org/10.9734/ijecc/2025/v15i34780**](https://doi.org/10.9734/ijecc/2025/v15i34780)

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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.** | **This article will of course be useful to the scientific community because it established fact-based relationship between some climatic elements and dust/sand storms over Riyadh in Saudi Arabia. The findings from the study could serve as indicators in sand/dust storm forecasting. The trends established could also serve as guide in trend forecasting of such events.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **In my opinion, the title could slightly be modified to read: “The Effect of Some Climatic Parameters on Temporal Variations of Sand and Dust Storm Events over Riyadh, Saudi Arabia”. This is because the major aim of the study was to establish the existing statistical relationship between climatic data and SDS events through regression. Additional, the study did not encompass the spatial variability of the events because maps were not used to indicate the spatial variability. It only considered the Temporal aspect. Thus, re-framing the topic this way will be more ethical and straightforward capturing both the independent and dependent variables as well as the study region.** |  |
| 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. | **The abstract is adequate. Nevertheless, a good introductory phrase about the effects of SDS events on the environment or livelihood will enhance the quality of the abstract. Also, a robust recommendation based on the findings of the study at the end of the abstract is key. For instance, since increase in temperature leads to increase in SDS events, it could be recommended that temperature could be used as an indicator or predictor for SDS events in Forecasting models. The idea behind an empirical research of this worth is to be able to get workable and sustainable recommendations based on the findings.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, the manuscript is in tandem with scientific principles.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **The references are sufficient but not so recent. Many of the references are very old with some spanning into the 1950s, 1960s and 1970s. In an empirical research, it is expected that most of your citations should not be older than 5 years from the year of publication because that is where you will be able to establish the missing gap from the existing body of knowledge. For very old citations, possibly, there are more recent findings that either counter of modify the reliability of their assertions.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Overall, the English Language is a bit fair especially in the introduction. Nevertheless, in the materials and methods section and the result section, there are many spelling and grammatical errors. These could be corrected and improved. |  |
| Optional/General comments | The page numbering is faulty and needs to be corrected.  In the result section, reference is not adequately made to the Figures. Also, the Figures are positioned far away from where the results are presented, making comparisons to be difficult. Figures should be labelled as Figure 3, Figure 4... Not Fig 3, Fig 4..., because Fig is a type of fruit. Also in Figure 3, the vertical labelling supposed to be Total Number of SDS events but it was mistakenly labelled as Type of SDS. This should be corrected.  Additionally, the enrich the work, after presentation if results, scientific discussions of the implications of the results ought to be made and in so doing, cite previous works that either support or counter your findings and discussions and state reasons why such is happening. |  |

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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)* |  |

**Reviewer details:**

**Isah Abdullahi Tanko, Federal University of Technology, Niger**