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| Journal Name: | [Asian Basic and Applied Research Journal](https://jofresearch.com/index.php/ABAARJ) |
| Manuscript Number: | **Ms\_ABAARJ\_2002** |
| Title of the Manuscript: | **Observations of ionospheric scintillations over Koudougou and Baclieu** |
| Type of the Article | Original research Article |

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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** (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.** | The paper addresses an important topic concerning observations of ionospheric scintillations over equatorial and low-latitude sector; it is appropriate and contributes to the regional understanding of ionospheric behaviour. The manuscript is methodologically sound and adds value to the body of ionospheric research. | Knowledge of ionospheric phenomena in the equatorial region, especially in Africa (where equipments is in short supply), is at an embryonic stage. Hence the interest of such a study, which aims to use in-situ data to gain a better understanding of ionospheric phenomena such as scintillations in the Equatorial Ionization Anomaly zone. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes, the title is concise and clearly reflects the manuscript content.  Suggested Alternative (if needed): Not required. | The Title is also suitable for us. |
| **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 reads well and gives a good overview of the work. To make it stronger, consider adding specific results like peak ROTI values and briefly comparing the two stations to highlight any key differences. | ROTI peaks are generally observed at 2100 TL in both Koudougou (2.5 TECU/mn) and Baclieu (1.5 TECU/mn) (corresponding to TU+7). The higher ROTI values at Koudougou (magnetic inclination °) could be explained by the fact that, compared with Baclieu (magnetic inclination ), Koudougou is closer to the magnetic equator. This is explained by the equatorial fountain phenomenon, which generates a high gradient of electron density away from the equator (Kelley, 1989). |
| **Is the manuscript scientifically, correct? Please write here.** | Yes, the methodology is appropriate for the objectives. The use of GNSS data to analyze scintillation is standard and well presented. The discussion is aligned with observed results and includes relevant physical interpretations. | Thank you |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are generally sufficient, and considering the limited recent work in this area, the current selection is acceptable. Still, adding any available studies from 2021–2024 could help strengthen the manuscript's relevance. | comment taken into account |
| **Is the language/English quality of the article suitable for scholarly communications?** | Yes, the language is mostly clear, but a few sentences could be improved for clarity and grammar. Minor English editing is recommended to enhance the readability. | Thank you |
| **Optional/General** comments | In Page 1, ”Keywards” should be ”Keywords”  In Reference [16] author have been used Uppercase letters modification needed as journal Reference style. | Reviewer's observations are well-founded and have been taken into account. |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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 details)* | none |