

Review Form 3

Journal Name:	Asian Journal of Physical and Chemical Sciences
Manuscript Number:	Ms_AJOPACS_126993
Title of the Manuscript:	Study of Moon and Sun impacts on Earth's state climate
Type of the Article	

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This manuscript offers a novel exploration of how the Sun and Moon's positions influence Earth's climate through atmospheric tidal phenomena, providing a unique perspective in climate research. The model developed in the study, which leverages satellite observations, could enhance predictive capabilities for wind patterns, temperatures, and precipitation. Such findings underscore the importance of accounting for celestial impacts in climate models, adding an additional dimension to traditional greenhouse gas-focused studies. This work has the potential to significantly aid the scientific community in refining climate disaster prevention strategies.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title of the article, "Study of Moon and Sun Impacts on Earth's State Climate," is clear but could be made more precise and engaging. A refined title might emphasize the article's focus on atmospheric tides and their climatic consequences. Here's a suggested alternative: "Impact of Lunar and Solar Tides on Earth's Climate: Atmospheric Dynamics and Predictive Modeling"	
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.	This study investigates the influence of lunar and solar positions on atmospheric tides and their impact on key climate variables such as temperature, wind distribution, and precipitation. A novel model was developed and validated through satellite data to assess the extent of these celestial impacts on Earth's climate dynamics. Findings indicate that the positions of the Moon and Sun generate atmospheric tidal phenomena that significantly shape regional and global climate patterns. Prioritizing these influences within climate models enhances predictive accuracy, aiding in the prevention of climate-related disasters and offering new insights for climate change mitigation strategies	
Are subsections and structure of the manuscript appropriate?	Conclusion and Future Work: Currently, the scope of future work is mentioned briefly in the discussion. Moving it to a dedicated Conclusion and Future Work section could give more weight to this part and provide a clear summary of findings, implications, and proposed next steps.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The manuscript appears scientifically robust and technically sound due to its systematic approach in modeling and analyzing the impact of lunar and solar positions on Earth's atmospheric tides and climate. By developing a model grounded in physics and validated through satellite observations, the study demonstrates a strong methodological foundation.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	The manuscript's references are pertinent to the study's focus on lunar and solar influences on atmospheric tides and climate. However, to enhance the depth and currency of the literature review, consider incorporating the following recent studies: Atmospheric Tides in the Latest Generation of Climate Models, (2014) Global Response of the Ionosphere to Atmospheric Tides Forced from Below: Recent Progress Based on Satellite Measurements, (2012). Seasonal Evolution of Winds, Atmospheric Tides, and Reynolds Stress Components in the Southern Hemisphere Mesosphere–Lower Thermosphere in 2019, (2021)	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Yes, the English used is adequate for school communications and articles	
Optional/General comments	Removed yellow highlight Sections added Address the observations and suggestions that are found in the margins of the text in yellow	

PART 2:

	Reviewer's comment	Author's comment (if agreed with 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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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