

Response to Reviewer 3 Comments

Dear Reviewers:

Thank you for your letter and for the reviewers' comments concerning our manuscript entitled "A Novel Tropical Cyclone Track Forecast Model Based On Attention Mechanism" (ID: atmosphere-1891268). Those comments are all valuable and very helpful for revising and improving our paper, as well as the important guiding significance to our researches. We have studied comments carefully and have made correction which we hope meet with approval. The main corrections in the paper and the responds to the reviewer's comments are as flowing:

Point 1: It is recommended that the authors upload their Code on GitHub.

Response 1: Thank you for your comments. We have uploaded our code on the github, the address of which is https://github.com/LuWenhe/tropical_cyclone_path.

Point 2: It is suggested the authors mention the used technologies for conducting the experiments and training their model (e.g. did you use PyTorch or any other deep learning model?)

Response 2: Thank you for your reminder. We have added the technologies in out manuscript. (Line 373-374)

Point 3: In the last paragraph of the Introduction section, I suggest you mention the contributions of this paper in a bulleted list.

Response 3: Thank you for your suggestions on our manuscript. According to the comments of the reviewers, in the last paragraph of the introduction, we have adopted a numbered list to describe the innovations and functons of each part of the model more clearly. (Line 101-118).

Point 4: How do you assure the tropical cyclone forecasting model produces a valid combination of latitude and longitude?

Response 4: We have introduced the process of data flow in the model in detail. (Line 332-341) After combining the cross and deep features in a dense layer, though two Relu activation functions, we will get the latitude and longitude of the tropical cyclone in the next 24 hours.

Point 5: Could you please run a statistical test to show that the results have statistical significance in Tables 5, 6, 7, and 8?

Response 5: This is a valuable comment and we will run statistical test in the future work.

We would like to take this opportunity to thank you for all your time involved and this great opportunity for us to improve the manuscript. We hope you will find this revised version satisfactory.

Best wishes for you and your family!

Sincerely yours