

In the response letter, it still does not answer whether the GEM has a regional version or not (this is what I asked last time). Please include the response to reviewers' comments in the revised manuscript. Please add a little bit more detailed description about the GEM and how it can be run at a fine resolution of 250 m. This is useful to the readers who are not familiar with the GEM.

- 1) It is little bit difficult to follow the wind directions defined in Figures.7. Do you have to show it?
- 2) HALO (L105) is not defined, please check any other undefined abbreviations throughout the manuscript.
- 3) L95-96: The authors highlight that the main objective of this paper is to test the ability of the GEM model to predict Lake Ontario Lake breezes under two different wind regimes. Later, the authors mentioned two different regimes of vertical motions on Line 246, two flow regimes on Line 248-249. Are they the same? Can the authors illustrate these two regimes a little bit more? Please highlight the model performance differences in simulating lake breezes under these two different regimes.
- 4) L09: What are the "vertically staring modes"?
- 5) Several words appear just once in the beginning but never use later, like "radial velocity", "vertically staring modes", "black global temperature"? Do you have to mention these? If you want to keep, please define them.
- 6) L130: What does the "lightly quality control" do?
- 7) L157: What is the "2-km hourly output"?
- 8) Is the lake surface temperature changed or not during the simulation period?
- 9) L173-178: Are the first two criteria easy to manipulate manually?
- 10) L227: Due or Due to?
- 11) L348: Table 2 or Table 1?
- 12) L363: How can you know this is caused by diffusive processes in the model? Please define "diffusive processes" in the model.
- 13) Some grammar errors still exist: Following are (L448). At least one more similar grammar error appears in other place in the revised version. Please correct all the spelling errors.