Dear Editor and Reviewer:

We appreciate the time and effort that you dedicated to providing feedback on our manuscript "Simulation, Precursor Analysis and Targeted Observation Sensitive Area Identification for Two Types of ENSO using ENSO-MC v1.0" (ID: gmd-2021-396). These comments are valuable and helpful for revising and improving our manuscript. We have carefully considered all of the reviewer’s suggestions and the revisions we will make can be summarized as below.

1) In Section 2 of the model description, we will supplement the descriptions of how we determine the model's hyperparameters through a series of experiments, including the number of model layers, the selection of the components of the model, the selection of the loss functions and so on.

2) For the evaluation of ENSO-MC, we will supplement more cases of different types of events and give an overview of the distinct prediction performances for EP and CP events.

3) For the precursor analysis, we will combine the changes of the SST field and the wind field, then comprehensively analyze the influence of the coupling process between the ocean and atmosphere on ENSO.

4) We have carefully read and are very grateful for the relevant research work provided by the reviewer. Relevant statements and references will be supplemented in the manuscript.

5) According to other professional suggestions of the reviewer, the incorrect statements will be updated and the negligent and unclear description will be supplemented in the manuscript.

Thank you again for your insightful comments and the manuscript is being modified as suggested. The detailed point-by-point responses will be submitted soon.