Dear Editor and Reviewer:

Thank you very much for your careful reading, insightful comments and constructive suggestions concerning 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), which would greatly help us improve both the content and the presentation of our work. We have carefully considered all comments and are revising the manuscript accordingly. In response to your suggestions, the modification we will make can be summarized as below.

1) We will supplement more detailed descriptions of ENSO-MC. The effects of model structure and each hyperparameter on ENSO prediction performance will be also supplemented, including model layers, attention mechanism, skip-layer connection, different variables, different loss functions and their weights, etc.

2) In Section 3, more ENSO events in the validation set will be selected for evaluation and discussion, and RMSE metric will be used to evaluate the forecasting results.

3) The influence of data from different sources on the model performance will be discussed, such as the ERA-5 data suggested in the comments.

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

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