

## **Comment on gmd-2021-235**

### **Responding to Topical Editor**

Dear authors,

There are still grammar issues in many places. Please work on the paper before resubmission.

Best wishes

Qiang Wang

We have asked for a professional service from LerPub company to proofread and revise our manuscript thoroughly according to the editor's comments. Please see the certificate of English language editing as follow.

# Certificate of English Language Editing



## Manuscript Title:

Improvements to the regional South China Sea Operational Oceanography Forecasting System (SCSOFSv2)

## Date of Revision:

December 20, 2021

### Abstract:

The South China Sea Operational Oceanography Forecasting System (SCSOFS), constructed and operated by the National Marine Environmental Forecasting Centre of China, has been providing daily updated hydrodynamic forecasting in the SCS for the next five days since 2013. This paper presents recent comprehensive updates to the configurations of the physical model and data assimilation scheme in order to improve the forecasting skill of the SCSOFS. This paper highlights three of the most sensitive updates, including the sea surface atmospheric forcing method, the discrete tracer advection scheme, and modification of the data assimilation scheme. Inter-comparison and accuracy assessment among the five versions were performed during the entire upgrading process using the OceanPredict Inter-comparison and Validation Task Team Class4 metrics. The results indicate that remarkable improvements have been made to the SCSOFSv2 with respect to the original version known as SCSOFSv1...

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