

Interactive comment on “Implementing a finite-volume coupled physical-biogeochemical model to the coastal East China Sea” by Jingui Liu et al.

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Thanks a lot for excellent job from anonymous referee #2, who has provided constructive suggestions and made amount of good revising opinions. We are improving the coupled model as comments from referee #1 with considering the intrusion of the Kuroshio Current and Taiwan Warm Current at open boundary. Also, we collected some more river data, especially of water quality, in order to correct river discharges. Harmful algal blooms (HABs) outbreaks through later spring to early summer (from April to early June) along coastal ECS. Additionally, we have collected ecological data of buoys in May. Thus, we validated the coupled model and showed some results in May. In follow-

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ing version, we will investigate daily variations of nutrients and chlorophyll-a, and will explore the environmental impacts on HABs, especially the fate of diatom and dinoflagellate from early April to later May. We will mention some more modelling studies in coastal ECS, including the literatures advised by referee #2, and give our progressions. As for the biological validation, we will redo it with new results considering sea current and more river data. The writing was corrected carefully by one author of Qingqing Pan, who wrote PhD thesis in English and received her PhD degree in Norway. I think it is still not as good enough as that from native authors. We really appreciate those minor comments, which are greatly important for us. We will correct them.

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