

# ***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 very much for the significant precious comments from anonymous referee #1.

The main aims of this manuscript are to present the coupled finite-volume FVCOM with ERSEM, and to show preliminary qualitative analysis. We will explore and address specific scientific question (e.g. the response of biogeochemical parameters on certain physical processes, and quantitative analysis) in the following research (other manuscript). With the above arrangement, we admit this manuscript shows drawback of very specific questions.

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We originally thought ocean circulation (e.g. Taiwan Warm Current and Kuroshio) may influence the coastal area little within 180-m isobath, which could be ignored. Actually, ocean circulation plays a role on the biogeochemical process. Thus, as the comments of referee #1, this drawback is obvious. We are improving open boundary conditions of the coupled model with ocean circulaitons.

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