Interactive comment on “The impact of the planetary $\beta$-effect on the tilting vertical structure of a mesoscale eddy” by Shengmu Yang et al.

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We are glad to read the referee’s comments such as ‘the work is original, and thus worth publication’.

1. Minor: The authors should define the scale of mesoscale eddies.
   
   Reply: We will illustrate the scale of the mesoscale eddies in the reversion.

2. Major: The authors should compare MITgcm simulations with the observations of tilted mesoscale eddies in the South China Sea, otherwise it is difficult to judge the results.

   Reply: Thank you for the suggestion, we will include the comparison between the simulation results and the observations of tilted mesoscale eddies in the South China Sea in the revision.

Once again, thank-you very much for the two referees’ constructive comments and suggestions.