

Interactive comment on “The impact of the planetary β -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 revision.

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

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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.

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