

Third review on “Spatial distribution of turbulent mixing in the upper ocean of the South China Sea” (os-2016-80) by X.D. Shang, C.R. Liang and G.Y Chen.

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The authors have improved the manuscript based on the previous comments. I can recommend publication after the following points are clarified:

1) Line 286-294: This should be removed since the same context is repeated in Summary.

2) Line 223: PDF estimator -> PDF estimator (histogram)

3) Fig.10: Theta is not a test statistic. The linear regression should be tested with t-test. Also R^2 needed to be mentioned. R^2 (coefficient of determination) is a standard variable defined in the most statistical book. See the following site as an example:

<http://www.r-tutor.com/elementary-statistics/simple-linear-regression/coefficient-determination>

Also this regression equation should be used to predict accurate dissipation rate from the model.

4) Line 385: What parameterization?