

## ***Interactive comment on “Comparison of the simulated upper-ocean vertical structure using 1-dimensional mixed-layer models” by Sonaljit Mukherjee and Amit Tandon***

**Anonymous Referee #2**

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This study runs three different vertical mixing schemes for two observationally-constrained case studies: SWAPP and MLML. The paper is reasonably well written (in the sense that the prose is clear) and the figures and analysis appear to be generally sound. A major deficiency, however, is that there is virtually no synthesis of the results. The authors present a series of facts and observations about mixed layer dynamics, the mixing schemes under consideration and their application to the case studies. At no point in the text, however, do they move beyond pure facts into interpretation. What have we learned from this analysis? Are the results generalizable in any meaningful way? On the basis of this deficiency, I would suggest major revisions.

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