

Interactive comment on “Importance of vertical mixing and barrier layer variation on seasonal mixed layer heat balance in the Bay of Bengal” by Ullala Pathirana Gayan Pathirana et al.

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In this study, the authors explored seasonal variations of barrier layer thickness (BLT) and seasonal mixed layer heat balance in the Bay of Bengal (BOB). They revealed the importance influence of BLT and vertical mixing on the mixed-layer heat balance in the BOB. Their results are very interesting, and can help to understand the upper-ocean dynamics and air–sea interactions over the BOB. The text is generally well written and the figures are clear. Two minor comments that need to be addressed as listed below.

(1) The Abstract is not concise and clear enough. The new findings of this study should be clearly described in the Abstract.

C1

(2) Line 203, Page 7: “.....illustrate the seasonal variability of sub surface conditions.....” Replace “sub surface” with “subsurface”.

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C2