**We made all recommended changes to the manuscript, i.e.**

P1, L3: Change "see" to "see a companion paper";

P1, L5: Remove "(14.5 -18.5 km)", which is repeated in L14-15;

P2, L1-2: Using the symbol θ's or θs to represent potential temperature can be misleading as one may consider it as another variable different from θ. I would suggest changing "for θ's" to “for potential temperature (θ)" and "θs =" to "θ =" (in Line 1), and changing "for θ's" to “for θ" (in Line 2).

**Also many thanks to co-editor for his efforts to get the manuscript published.**