For the comment on fixing the paragraph on page 15 (which in its current form makes no sense), our rationale is that the current 2 sentences in brackets below are both correct statements that have been discussed many times in the paper, including in the paragraph starting at line 10 on the same page, but don’t fit in this summary paragraph. I (RJS) apologize for not catching this before the revised manuscript was submitted.

So our suggestion to fix this is to change the paragraph as follows.

[original text pg 15 line 34-42]

We have demonstrated that the OEM allows for retrieval of temperature from pure rotational Raman lidar measurements that are consistent with the coincident sonde temperature.

[The OEM-retrieved temperatures depend nearly to 100 % of the measurement values. Above the cutoff height, the measurement contribution falls below 90 %. Temperature retrievals above the cutoff height depend to more than 10 % on the a priori temperature proﬁle and are not considered an independent measurement. ] We discussed the advantages of the OEM over the traditional temperature retrieval algo- rithm. We can use the OEM-retrieved temperature to study temperature trends with the beneﬁt of a full uncertainty bud- get provided by our OEM. Our OEM temperature retrieval can also be used for routine measurements in a wide variety of observing conditions, and is applicable to any similar PRR lidar system.

[proposed text; without bracketed section above] We have demonstrated that the OEM allows for retrieval of temperature from pure rotational Raman lidar measurements that are consistent with coincident radiosonde temperature measurements. We discussed the advantages of the OEM over the traditional temperature retrieval algorithm. We can use the OEM-retrieved temperature to study temperature trends with the beneﬁt of a full uncertainty budget provided by our OEM. Our OEM temperature retrieval can also be used for routine measurements in a wide variety of observing conditions, and is applicable to any similar PRR lidar system.

As is clear there is no information being removed or added to the paper due to this correction.