

Reviewer 2

1. The authors use geometric height to describe the distribution of bromoform. I would suggest to use a physical more meaningful coordinate like potential temperature (or pressure). As I mentioned above, it may change the view on at least the horizontal distribution of bromoform in the TTL.

We have added some introductory text in part 1 to provide better context on the TTL and the vertical coordinate. We did look into the distributions on other levels and did not find significant differences. Contours for potential temperature are included in Figs 4+5 panels a+b to allow the reader to judge the impact for themselves. We have now mentioned this in the figure caption having omitted to do so previously!

2. In section 4.2.2 the contribution of extra-tropical emissions to the TTL mixing ratio is mentioned to be small. How do you distinguish between tropical and extra-tropical contributions?

Yes. By using separate tracers for tropical and extratropical emissions we found that the extratropical contribution to the total TTL mixing ratio was small (~10% for the Uniform tracer in the HR model). We therefore note that the effect of extratropical emissions on CHBr₃ TTL mixing ratios can, to first order, be discounted. We did not include this explanation in the manuscript, but could do so if requested.

3. In Fig. 3d and 5d the maximum value of the bromoform tracer near the surface is not shown. Maybe this value can be mentioned in the figure caption.

The primary author is on maternity leave and unfortunately we do not have access to the data. Given that this does not seem to be a major issue, we hope that the review process can continue without this.

4. All vertical profiles for the Maritime Continent feature a small peak at about 5 km height. Can you comment on this?

We think it is a result of low level convection near coastlines and have added a short paragraph to that effect at the end of Section 4.

5. The contour lines for potential temperature in Figure 4 and 5 are not described in the figure caption.

Now added. We apologise for the confusion caused.