

Answer2 to Editor

Thank you for accommodating all of my requests. Please accommodate two more:

- Please describe the red lines in the caption of Figure 3. is there a reason not to show a red line in the 1990-1995 period?

Caption of Figure 3 has been updated. The 1991-1997 period is not considered in the discussion of the expected ECC temperature change in section 4.1 line 152-164 because ozone sensors are different for the period 1991-1997 and 1997-2023. We expect different characteristics for Science Pump Corporation manufacturer and EnSci. This is explained line 153-155.

- Please describe the red line in the caption of Figure 7. Could you include the following (or something similar) in the main text? The two periods 1991-2001 and 2002-2007 cannot be strictly identical because of differences in the atmospheric temperature profiles. The temperature jump at 10 km correspond to changes in the tropopause altitude. This is why we test several temperature corrections in section 4.

Caption of Figure 7 has been updated. The sentences discussing the jump in the pump temperature difference vertical profile around 10 km are now included in the text line 185.