

Interactive comment on “UV absorption cross sections of nitrous oxide (N₂O) and carbon tetrachloride (CCl₄) between 210 and 350 K and the atmospheric implications” by N. Rontu Carlon et al.

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Received and published: 17 June 2010

This is an excellent paper that will be the primary reference for these important cross sections for years to come. The measurements and analysis have been made carefully, and there is a thorough literature review and intercomparison of data. It should be published. If only all studies were done this well and all papers this well written. My comments are peripheral.

What is the material of the absorption cell windows?

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I would like a more detailed description of the pressure gauges - method, accuracy, calibration.

Pressures are given in units of Torr in some places and hPa other places. It would be better to use the same unit throughout - and the SI unit, hPa or mbar.

I had to work hard to find an error in the references. Page 11070, line 17, missing second '15' in last NNO isotopomer.

The numbers in Table 1 are small and likely fall under ACPs recommended font size. Please enlarge.

On page 11074, Figure 1, the colored region extends from 200 to 230 nm. But if 230 is relevant, then the high energy limit should be extended to ca. 190 nm - see for example Figure 2, Appendix 2, of JPL 94-26, Chemical kinetics and photochemical data for use... The fonts of the axis labels are too small.

Figures 2 and 3 - all text is way too small! Simply not acceptable. You could try rearranging as three columns two rows to give more space? As it is the text is impossible for me to read, and my eyesight is really not so bad.

Fig 4, again, axis label font too small.

Thank you for a thorough and useful piece of work.

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 11047, 2010.

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