

Reply to Comment by A. Appleby, D. Lilian and H. B. Singh
on "Atmospheric Halocarbons: A Discussion with
Emphasis on Chloroform"

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The comment by Appleby et al. (1976) raises an interesting possibility, an anthropogenic source of carbon tetrachloride due to photooxidation of tetrachloroethylene. This source could play a major role in the atmospheric budget of CCl_4 if the yield from C_2Cl_4 were as high as 10% (see Table 2 of Yung et al., 1975). Their suggestion complements the discussion presented in our earlier paper, though definite conclusions are still premature. We note that Mathias et al. (1974) did not find any CCl_4 in the oxidation of C_2Cl_4 . We were unaware of the remarks presented at the conference in Silver Spring in November 1974. We did not, and have not, had access to the letter by Singh et al. which is scheduled, we note, to appear in *Env. Letters*. Our primary point, that bleaching of paper pulp may provide a significant source of atmospheric halocarbons, is unaffected by the remarks presented above.

References

- Yung, Y. L., M. B. McElroy and S. C. Wofsy, Atmospheric halocarbons: a discussion with emphasis on chloroform, *Geophys. Res. Lett.*, 2, 397, 1975.
- Mathias, E., E. Sanhueza, F. C. Hisatune and J. Heicklen, The chlorine atom sensitized oxidation and ozonolysis of C_2Cl_4 , *Can. J. Chem.*, 52, 3853, 1974.

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