

Interactive comment on “Fractional release factors of long-lived halogenated organic compounds in the tropical stratosphere” by J. C. Laube et al.

P. A. Newman

paul.a.newman@nasa.gov

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This is a nice paper that uses new observations of ozone depleting substance to examine fractional release rates.

Many of the release rates in the tropics are found to be higher than those observed in the extratropics. This result is not unforeseen. Please take a look at "Relationship of loss, mean age of air and the distribution of CFCs to stratospheric circulation and implications for atmospheric lifetimes" by A. Douglass et al. (JGR, 2008). This paper shows that: 1) fractional release values can be used to differentiate model behavior, 2) FRFs will change if the circulation accelerates, and 3) FRFs should be different between the lower stratosphere and upper stratosphere for similar age values.

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Paul A. Newman

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