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## Correction to “NF<sub>3</sub>, the greenhouse gas missing from Kyoto”

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*Prather and Hsu* [2008] is revised in this note with correct CFC-114 and CFC-115 lifetimes.

[2] **Acknowledgments.** We thank Vladimir Orkin and Dr. Michael Kurylo for graciously pointing out our misreading in (O<sup>1</sup>D) reaction rate with CFC-114 and -115.

### 1. Correction to CFC-114 Lifetime and CFC-115 Lifetime

[1] In *Prather and Hsu* [2008] we have mistakenly used the overall quenching rate of O(<sup>1</sup>D) from JPL 06-2 [*Sander et al.*, 2006] to compute the lifetimes of CFC-114 and CFC-115. As a result, their lifetimes are underestimated. When removing 25% physical quenching for CFC-114 and 70% for CFC-115 from the total quenching rate (see notes A48 and A49 in JPL 06-2), the lifetime is corrected to 190 years for CFC-114 and to 1020 years for CFC-115. Table 1 in

### References

- Forster, P. V., P. Artaxo, T. Bernsten, R. Betts, D. W. Fahey, J. Haywood, J. Lean, D. C. Lowe, G. Myhre, J. Nganga, R. Prinn, G. Raga, M. Schulz, and R. Van Dorland (2007), Changes in atmospheric constituents and in radiative forcing, in *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, edited by S. Solomon et al., pp. 129–235, Cambridge Univ. Press, Cambridge, U. K.
- Prather, M. J., and J. Hsu (2008), NF<sub>3</sub>, the greenhouse gas missing from Kyoto, *Geophys. Res. Lett.*, 35, L12810, doi:10.1029/2008GL034542.
- Sander, S. P., et al. (2006), Chemical kinetics and photochemical data for use in atmospheric studies, *JPL Publ.*, 06-2.

**Table 1.** Atmospheric Budget Lifetimes (given in years) of Fluorinated Gases From UCI CTM With and Without O(<sup>1</sup>D) Reactions Compared to IPCC (*Forster et al.* [2007]). The lifetimes of CFC-114 and CFC-115 with O(<sup>1</sup>D) are corrected from those published in *Prather and Hsu* [2008]

Gas	UCI Without O( <sup>1</sup> D)	UCI With O( <sup>1</sup> D)	IPCC
NF <sub>3</sub>	640	550	740
CFC-11(CFCl <sub>3</sub> )	48	47	45
CFC-12(CF <sub>2</sub> Cl <sub>2</sub> )	100	96	100
CFC-113(CF <sub>2</sub> ClCFCl <sub>2</sub> )	82	80	85
CFC-114(CF <sub>2</sub> ClCF <sub>2</sub> Cl)	230	190	300
CFC-115(CF <sub>3</sub> CF <sub>2</sub> Cl)	1650	1020	1700

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