

## ***Interactive comment on “Wavelength dependence of isotope fractionation in N<sub>2</sub>O photolysis” by J. Kaiser et al.***

**J. Donaldson**

jdonalds@chem.utoronto.ca

Received and published: 19 December 2002

General comments:

This paper reports on a careful study of isotopic fractionation of N<sub>2</sub>O following optical excitation near the UV absorption maximum. The data given here, in conjunction with other, previously published results, shows a distinct wavelength dependence to the fractionation. Current theories are shown to be qualitatively correct in predicting this wavelength dependence, but in error quantitatively.

Specific comments:

The authors assume throughout a uniform, wavelength-independent quantum yield for photodissociation. They neglect any temperature dependence to the absorption or to the quantum yield. These points should at least be stated explicitly in the manuscript.

[Full Screen / Esc](#)

[Print Version](#)

[Interactive Discussion](#)

[Original Paper](#)

---

Interactive comment on Atmos. Chem. Phys. Discuss., 2, 1735, 2002.

**ACPD**

2, S759–S760, 2002

---

Interactive  
Comment

Full Screen / Esc

Print Version

Interactive Discussion

Original Paper

S760

© EGS 2002