

Accepted Manuscript

Assessing the long-term variability of acetylene and ethane in the stratosphere of Jupiter

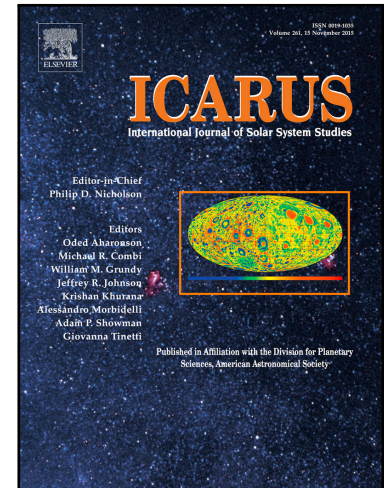
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PII: S0019-1035(17)30613-9
DOI: [10.1016/j.icarus.2017.12.041](https://doi.org/10.1016/j.icarus.2017.12.041)
Reference: YICAR 12761

To appear in: *Icarus*

Received date: 27 August 2017
Revised date: 4 December 2017
Accepted date: 22 December 2017

Please cite this article as: Henrik Melin, L.N. Fletcher, P.T. Donnelly, T. Greathouse, J. Lacy, G.S. Orton, R. Giles, J. Sinclair, P.G.J. Irwin, Assessing the long-term variability of acetylene and ethane in the stratosphere of Jupiter, *Icarus* (2017), doi: [10.1016/j.icarus.2017.12.041](https://doi.org/10.1016/j.icarus.2017.12.041)



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Highlights

- Analyse six years of mid-infrared TEXES observations of acetylene, ethane, and methane emissions from Jupiter's stratosphere
- Ethane has a symmetric abundance distribution about the equator that does not vary with time
- Acetylene has an asymmetric abundance distribution that decreases away from the equator and varies with time
- Changes in the acetylene distribution coincide with belt/zone variability in Jupiter's low- and mid-latitudes, suggesting the presence of stratospheric waves

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