

## ***Interactive comment on “Continuous observation of Stable Isotopes of Water Vapor in Atmosphere Using High-Resolution FTIR” by Chang-Gong Shan et al.***

### **Anonymous Referee #2**

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The authors describe measurements of stable isotopes of water at a local site (Hefei) in China and observe seasonal variations in the isotopic ratios. Comparisons are made with data from previously published data from Tsukuba (Japan). The paper is well organised and is written in good English. However, it is not clear what the significance of the papers is. The instrument used is a commercially available instrument and the method of measuring is not new. Apart from giving the wavelength range, the instrument is not described at all. Comparisons with satellite measurements are made and a good correlation is found, but as no further data on either the ground based instrument nor the satellite instrument is given it is unclear if these findings are significant, or if the ground based data can be considered as calibration of the space instrument. As

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neither the instrument design nor the measurement method seem to be innovative, or are at least not described, the manuscript is outside the scope of the GI journal.

If the results are scientifically valuable, this should be made clear and some statements on the implications should be made. If this can be done the paper can be re-submitted to a journal addressing atmospheric sciences, for example Atmospheric Chemistry and Physics (ACP). The manuscript should be rejected for publication in GI as it is out of scope for this journal.

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<https://doi.org/10.5194/gi-2018-43>, 2018.

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