

## ***Interactive comment on “Fast retrievals of tropospheric carbonyl sulphide with IASI” by R. Anthony Vincent and Anu Dudhia***

**L. Kuai**

lkuai@g.ucla.edu

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1. Thanks author to help me better understand the feature over US. Yes, showing IASI OCS in VMR will be better for the data to be used to understand the OCS global budget. I wonder if IASI would retrieve column O<sub>2</sub> then it would be helpful to get column VMR and reduce the topographic effect.

2. To compare to HIPPO data, IASI data do not have to be in the same year but the same month of the year would be fine if consider the interannual variability is smaller than latitudinal gradient.

For the FTIR measurement comparison, please keep in mind, NDAC and TCCON OCS would be available in near future. Hope these data would provide more cross check.

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At the end, I'm very glad to hear IASI could provide OCS observations and provide a new source of satellite measure in future. I'm also look forward to OCS from follow-on IASI instruments to provide a longer record.

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