

## ***Interactive comment on “Update on GOSAT TANSO-FTS performance, operations, and data products after more than six years in space” by A. Kuze et al.***

### **Anonymous Referee #4**

Received and published: 29 April 2016

This paper describes in detail the performance and operation of the GOSAT TANSO-FTS instrument over the past 6 years.

This paper is extremely useful for anyone intending to use the GOSAT measurement spectra and I would recommend it for publication. As it has already passed through one round of reviews I'm largely happy with the paper as is and only have a few minor points which the authors may want to address.

It would seem that this is the ideal publication to include more context on how the GOSAT data is being used by the international GHG community. I'd recommend a section in the introduction that covers current work in more detail, highlighting the use of GOSAT data in the scientific literature. This need not be extensive but it would

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provide a logical starting point for information should people wish to begin using the data themselves.

The remainder of my comments are largely grammatical/typographical changes:

The formatting of "XCO2" and "XCH4" seems inconsistent with the rest of the text.

P2L16: clarify CO2 and CH4, sensitive to the surface, etc (i.e. there are TIR instruments capable of these measurements and there are other GHGs)

P2L31: GHG -> GHGs

P3L13: with aim-> with the aim

P5L5: large dark level -> large dark level values?

P7L27: "Fig. 3" formatting seems different to rest

P11L24: "position is largely shift" -> (Grammar) a shift? shifted?

P13L15: Typo – NICE/NIES –(also please provide link to GUIG in references)

P13L18: is corrected dividing -> is corrected by dividing

P13L20: instead of boxcar -> instead of a boxcar

P21L11: acquires -> acquired

P22L4: has higher possibility of nonlinearity -> has a higher possibility of nonlinearity

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Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2015-333, 2016.

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