

Interactive comment on “GreenHouse gas Observations of the Stratosphere and Troposphere (GHOST): an airborne shortwave infrared spectrometer for remote sensing of greenhouse gases” by Neil Humpage et al.

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The comments of two anonymous reviewers (#1 and #2) were quite positive and both reviewers found the manuscript suitable for AMT after some suggested revisions.

When reading the authors' responses (including the intended changes to the text of the manuscript) to the comments of reviewers #1 and #2 I feel that the authors sufficiently well addressed the reviewers' comments, therefore I would encourage the authors to prepare a revised version of the manuscript.

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In addition to the reviewers' comments I would encourage the authors to further clarify the manuscript by adding the following information:

Detector dark current: The dark current is given as 0.25 electrons per second and pixel (section 2.2) and as about 5 counts (Table 2). It should be clarified at which temperature the dark current figures in Table 2 were measured (80K or 98K ?). In any case – as requested by reviewer #2 – the dark current at 98 K should be given. The standard deviation of the dark current in Table 2 appears very high, this needs explanation.

Digital data: The relationship between electrons and 'counts' should be given. Also, the max. exposure in counts (probably 65000) is not explicitly stated, this information should be added in order to allow the reader to judge the fraction of dark current to the signal.

I am looking forward to reading the revised manuscript. with very best regards Ulrich Platt

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