

***Interactive comment on “Validation of MAX-DOAS retrievals of aerosol extinction, SO<sub>2</sub> and NO<sub>2</sub> through comparison with lidar, sun photometer, Active-DOAS and aircraft measurements in the Athabasca Oil Sands Region” by Zoë Y. W. Davis et al.***

**Anonymous Referee #1**

Received and published: 14 November 2019

The multi-instrument study demonstrates the value of the MAX-DOAS technique for aerosol and trace gas retrievals as compared to LIDAR, aircraft-based, in situ, and other ground-based measurements. This text is a good example of a well thought out and executed intercomparison (including noted limitations to the comparisons). This is a thoroughly documented study, likely to form part of a thesis (if it hasn't already).

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Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2019-296, 2019.

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Discussion paper

