

Interactive comment on “Validation of MAX-DOAS retrievals of aerosol extinction, SO₂ and NO₂ 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

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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).

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