

Interactive comment on “Influence of aerosols and surface reflectance on satellite NO₂ retrieval: seasonal and spatial characteristics and implications for NO_x emission constraints” by J.-T. Lin et al.

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The paper describes a satellite based method to conclude about anthropogenic emissions. This is important especially in regions with strong temporal variations of emissions as China. Important is the handling of aerosol influences upon the NO₂ retrieval including modelling and AOD measurements. Independent from the statements that current MAX-DOAS measurements are very limited over China it would be helpful to show a comparison between the ground-based and satellite-based remote sensing of

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NO₂ vertical column densities and how the integration of ground-based remote sensing would improve the final results.

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