



Supplement of

Rethinking the correction for absorbing aerosols in the OMI- and TROPOMI-like surface UV algorithms

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Figure 1: Figure S1: The current operational OMI correction for absorbing aerosols, C_a (upper panel). The ratio of the new proposed correction and current operational correction for absorbing aerosols, C_a^{NEW}/C_a^{OMI} (lower panel). Solar zenith angle corresponds to the noon time conditions on February 15th and aerosol climatology of February is used₂





Figure 2: Same as Figure S1, but both SZA and aerosol climatology corresponds to March conditions





Figure 3: Same as Figure S1, but both SZA and aerosol climatology corresponds to April conditions





Figure 4: Same as Figure S1, but both SZA and aerosol climatology corresponds to May conditions





Figure 5: Same as Figure S1, but both SZA and aerosol climatology corresponds to July conditions





Figure 6: Same as Figure S1, but both SZA and aerosol climatology corresponds to August conditions





Figure 7: Same as Figure S1, but both SZA and aerosol climatology corresponds to September conditions





Figure 8: Same as Figure S1, but both SZA and aerosol climatology corresponds to October conditions





Figure 9: Same as Figure S1, but both SZA and aerosol climatology corresponds to November conditions





Figure 10: Same as Figure S1, but both SZA and aerosol climatology corresponds to December conditions