Exceptional wildfire smoke over Greece in summer 2023: a synergistic study of aerosol optical-microphysical and UVB radiative impacts

Supplementary Material
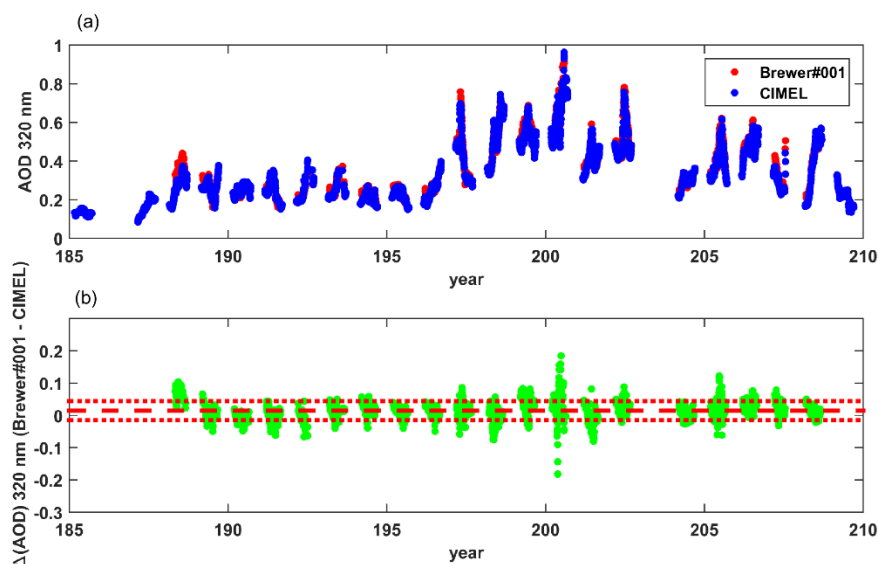
Figure S1. a) Time series of AOD from Brewer (red) and CIMEL (blue) for the period 2023–2025. (b) Difference Δ(AOD) between Brewer and CIMEL AOD, for July - August 2023.
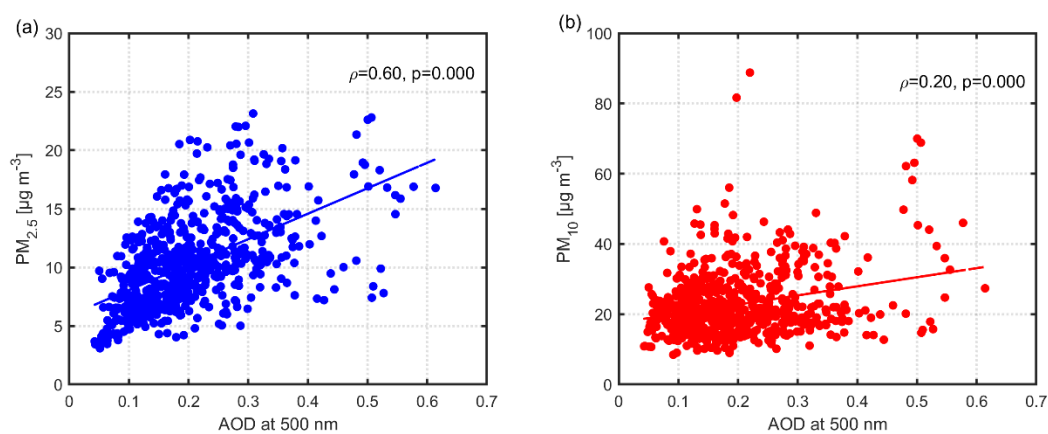
Figure S2. Spearman correlation between hourly (a) $PM_{2.5}$ and (b) PM_{10} concentrations and AOD at 500 nm during July and August 2023.
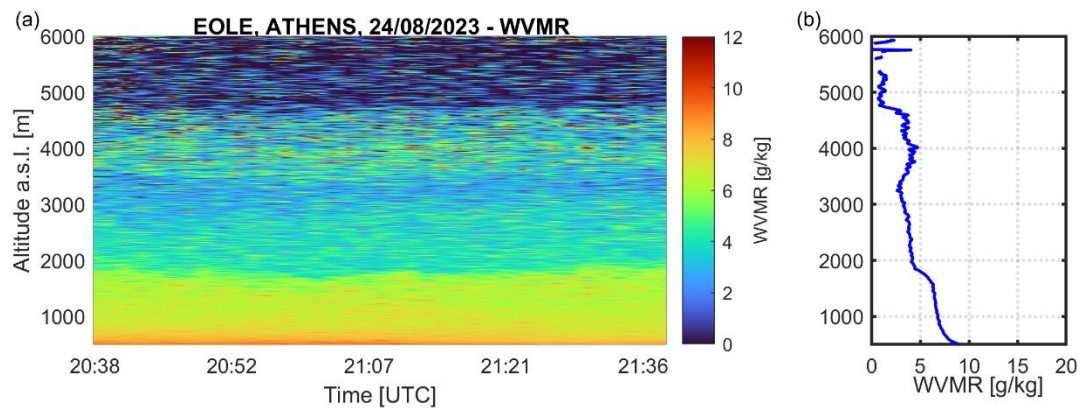
Figure S3. (a) Spatio-temporal evolution of the Water Vapor Mixing Ratio (WVMR) and (b) vertical profile of the WVMR obtained by EOLE lidar on 24 August 2023.
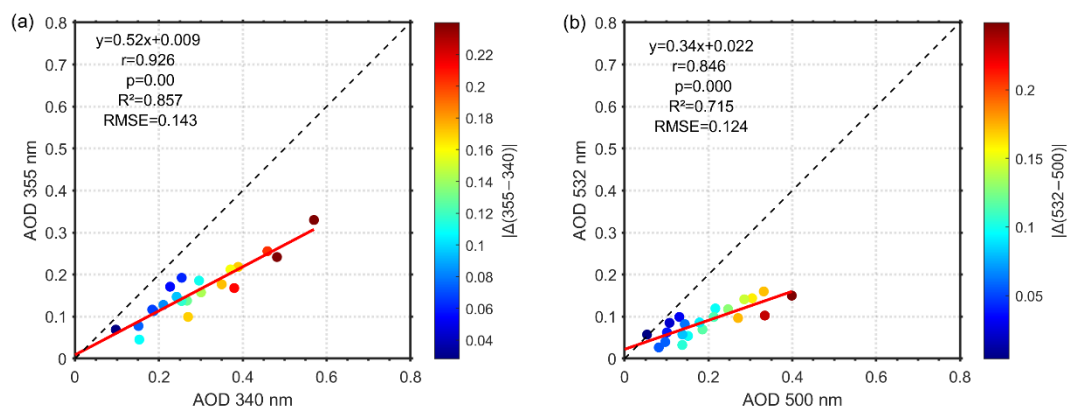
Figure S4. Comparison of layer-integrated AOD retrieved from the lidar with CIMEL sun-photometer measurements. (a) 355 nm (Lidar) vs. 340 nm (CIMEL) and (b) 532 nm (Lidar) vs. 500 nm (CIMEL).