

Supplement of

Characterization of Dust Aerosol Source Types and Associated Shortwave Direct Radiative Effects Over Cyprus: A Seven-Year Study

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S1 Additional figure

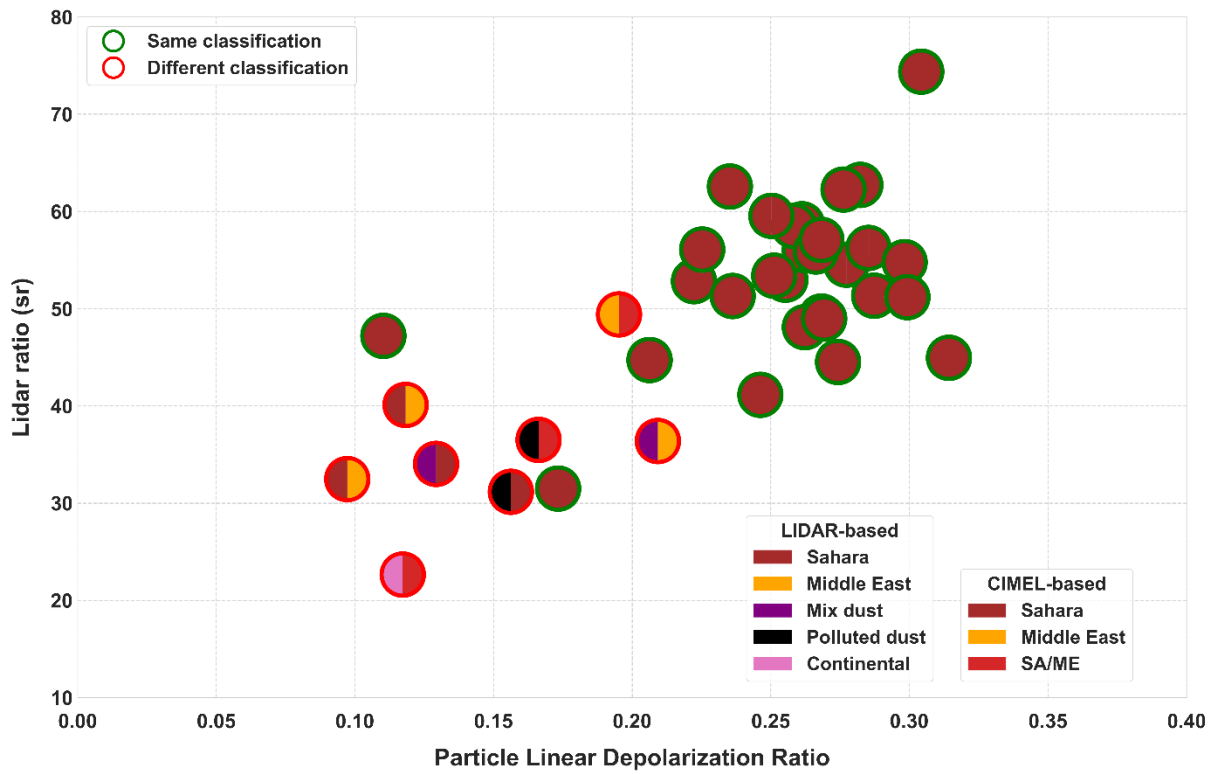


Figure S1. Detailed comparison between LIDAR Depolarization (LD)-based aerosol classification and AERONET-Dubovik (AD)-based dust origin classification for all coincident cases at the Agia Marina Xyliatou (AMX) station. Each point represents a coincident daily observation under cloud-free conditions and is shown in particle linear depolarization ratio–lidar ratio space. Pie markers are used to simultaneously represent both classification approaches: the left half corresponds to the LD-based aerosol type (Dust, Dust mixtures, Polluted dust, and Continental), while the right half corresponds to the AD-based dust origin classification (Sahara, Middle East, or mixed SA/ME from HYSPLIT trajectories). Marker edge color indicates agreement (green) or disagreement (red) between the two methods.