

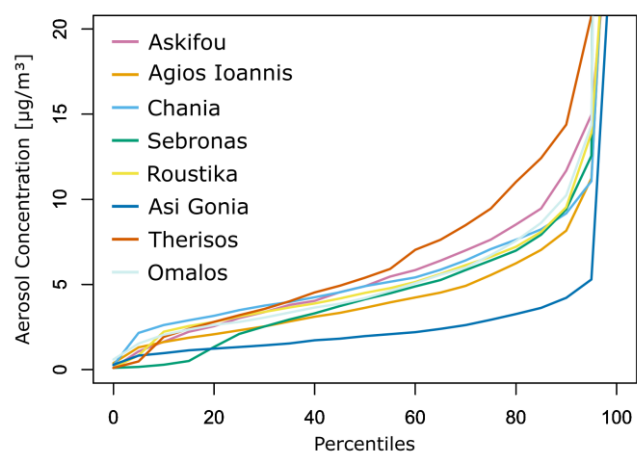


Figure S1: Station-specific percentiles of daily mean PM10 aerosol concentrations.

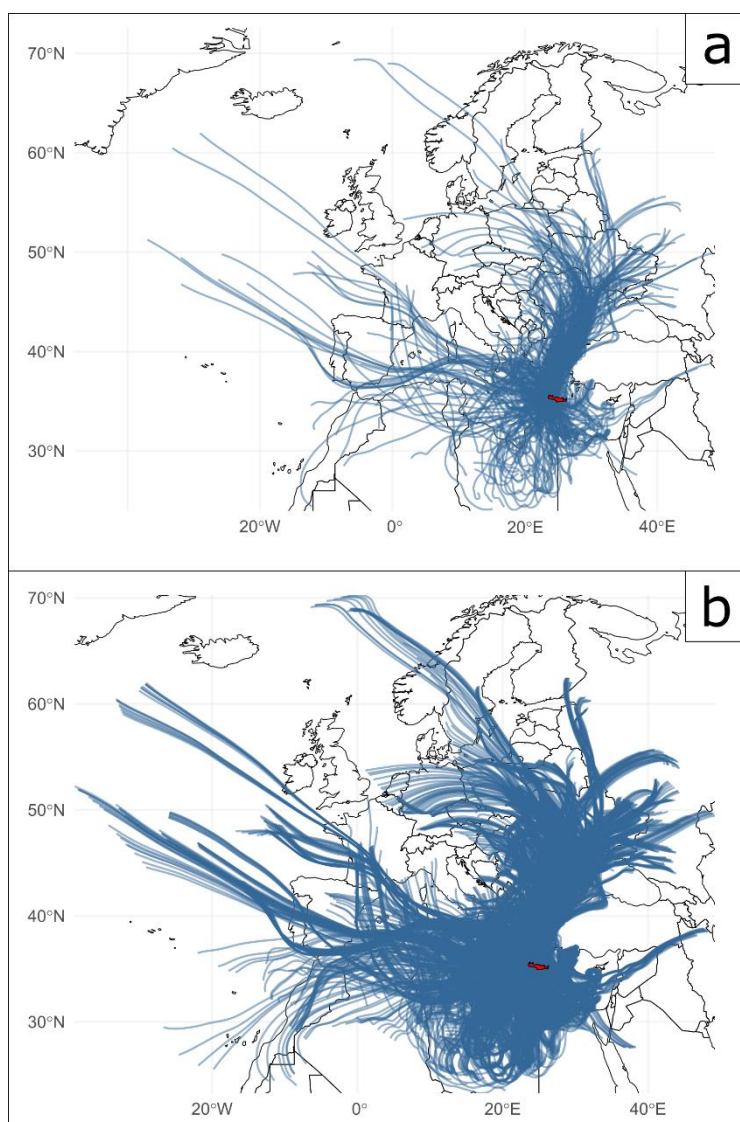


Figure S2: Comparison of trajectories for Agios Ioannis Sfakion on dust days with trajectories for all stations on dust days; a – Agios Ioannis Sfakion; b – all stations.

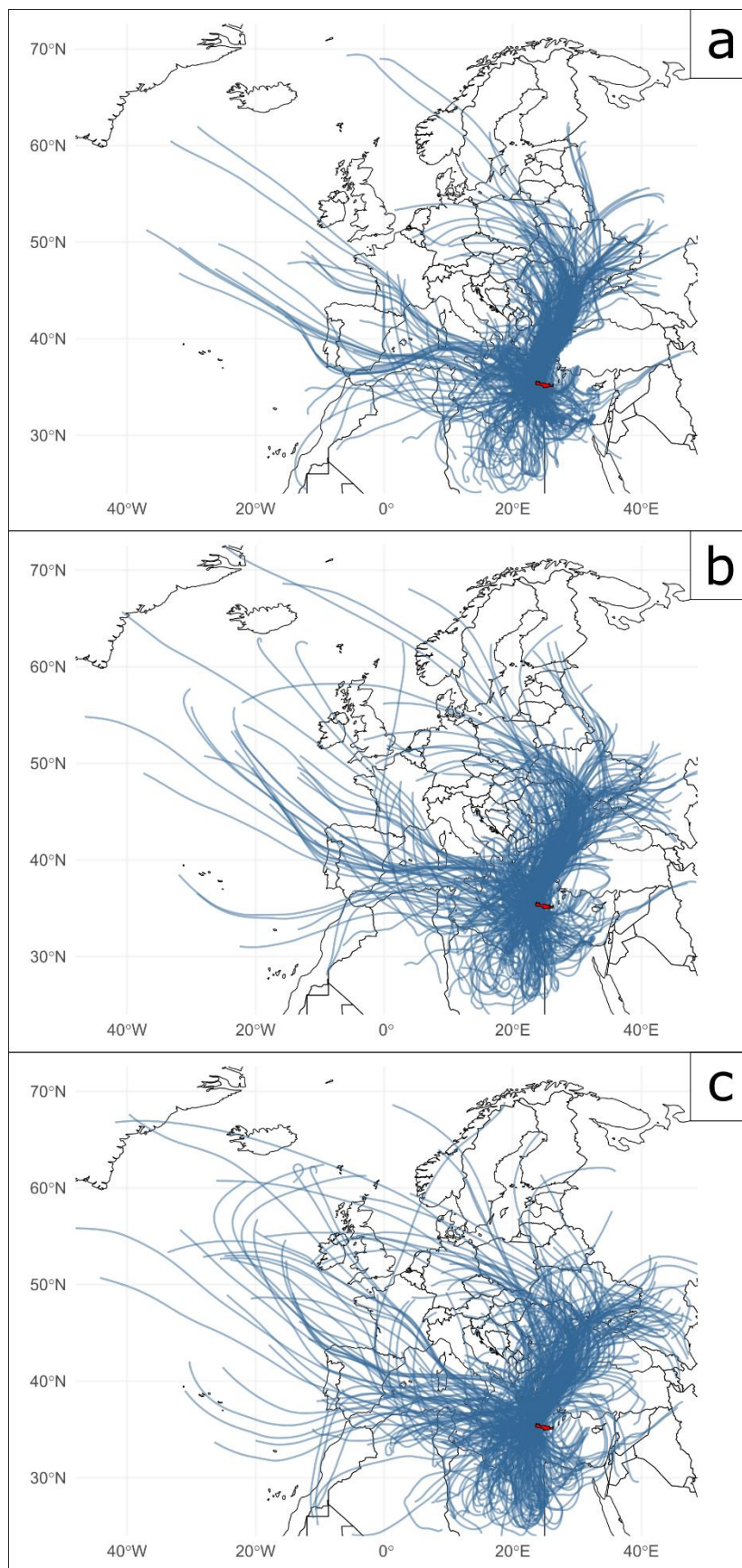


Figure S3: Comparison of trajectories for Agios Ioannis Sfakion on dust days for arrival at different pressure levels; a – arrival at ground level; b – arrival at 200 m; c – arrival at 500 m.

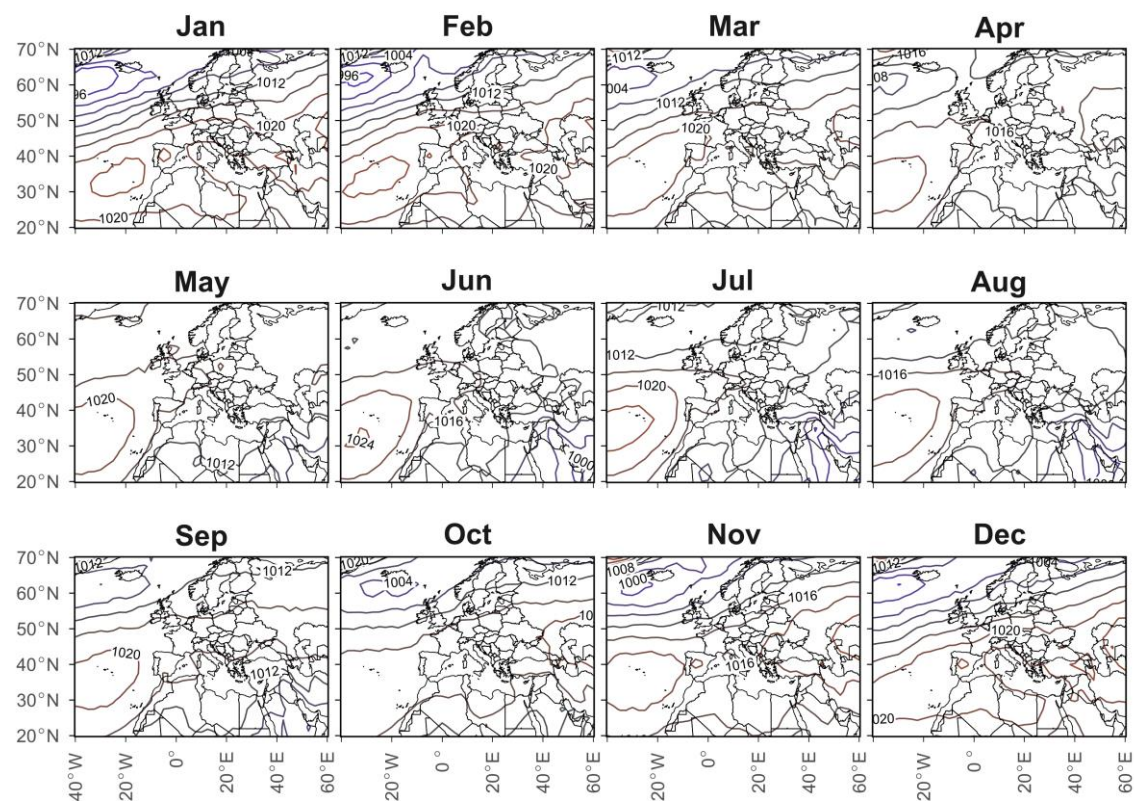


Figure S4: Monthly median air pressure climatology at ground level, based on pressure data from 1991 to 2020 (Kalnay et al. 1996; NOAA ARL 2026).

Publication bibliography

Kalnay, E.; Kanamitsu, M.; Kistler, R.; Collins, W.; Deaven, D.; Gandin, L. et al. (1996): The NCEP/NCAR 40-Year Reanalysis Project. In *Bulletin of the American Meteorological Society* 77 (3), pp. 437–471. DOI: 10.1175/1520-0477(1996)077%3C0437:TNYRP%3E2.0.CO;2.

NOAA ARL (2026): NCEP/NCAR Global Reanalysis Data Archive Information. NOAA Air Resources Laboratory. Available online at https://www.ready.noaa.gov/gbl_reanalysis.php, updated on 7/9/2026, checked on 8/4/2026.