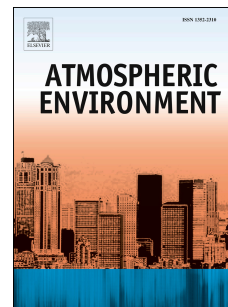


# Accepted Manuscript

Fire risk, atmospheric chemistry and radiative forcing assessment of wildfires in eastern Mediterranean

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Fire danger forecasting by COSMO-ART is proven

Forest burning results to tripled AOD values (0.75–1) than these in non-fire periods

PM<sub>10</sub> are found almost doubled 60km downwind fire spots (Athens)

The radiative impact of fire-induced aerosol is negative (3-day-average of  $-10\text{Wm}^{-2}$ )

The effect of fire plume on air temperature is  $-0.5/-5\text{ K}$  (3-day-average/hourly value)

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