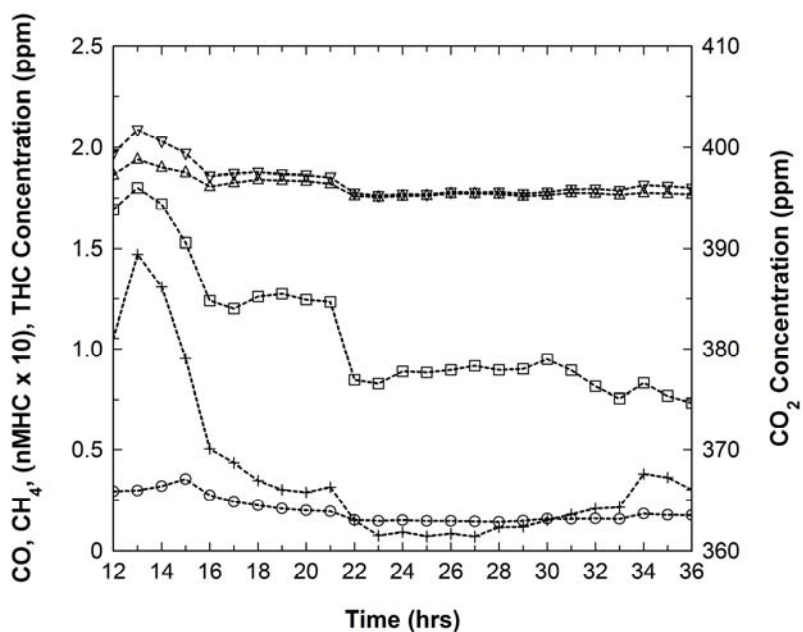


(a)



(b)

Fig. S1 Hourly mean gas pollutant concentrations (a) bonfire night and (b) comparison weekend: o CO; □ CO₂; Δ CH₄; + nMHC; and ▽ THC

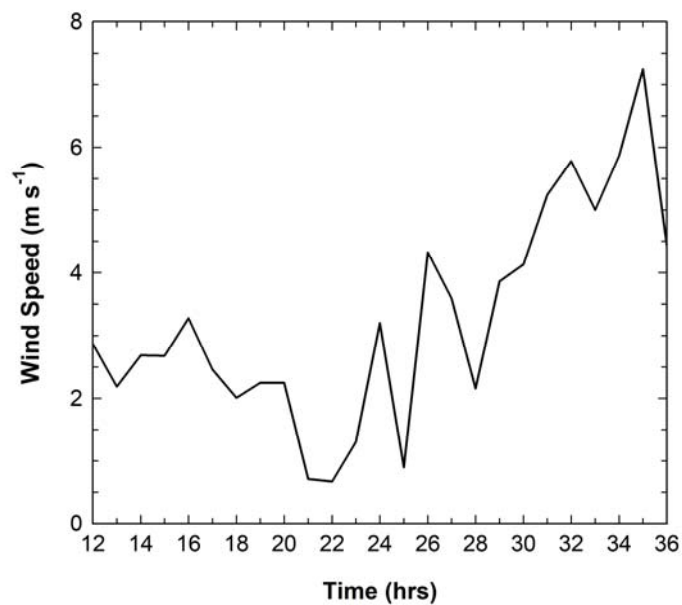
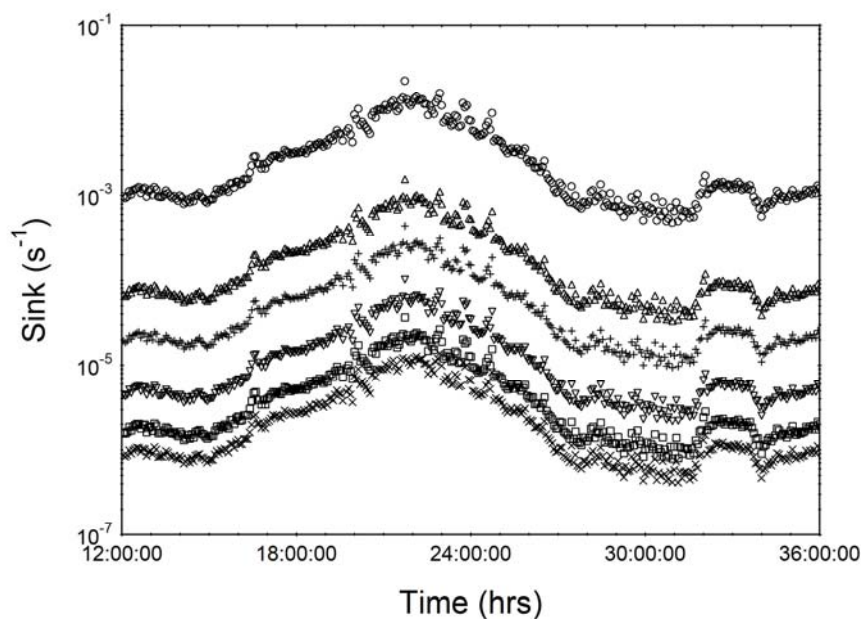
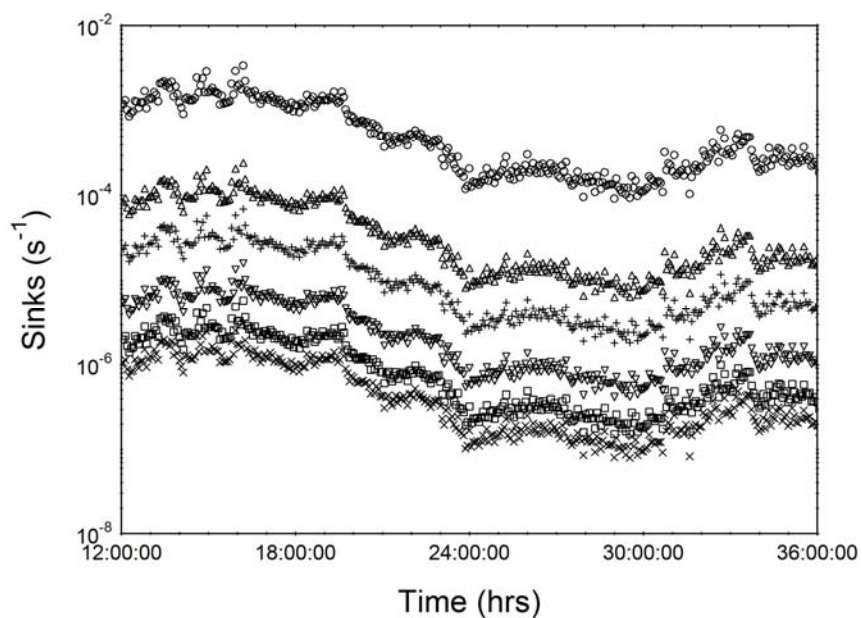


Fig. S2 Variation in background wind speed at 32m during the bonfire/fireworks period measured approximately 1.5 miles from sampling site

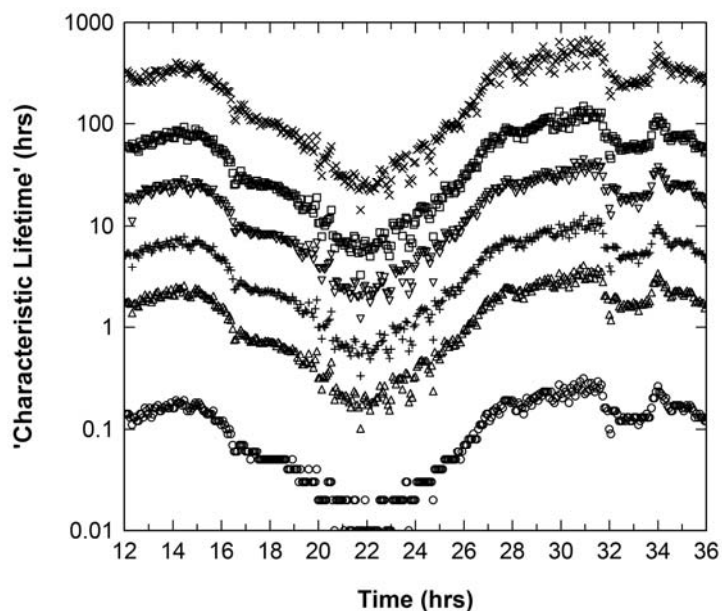


(a)

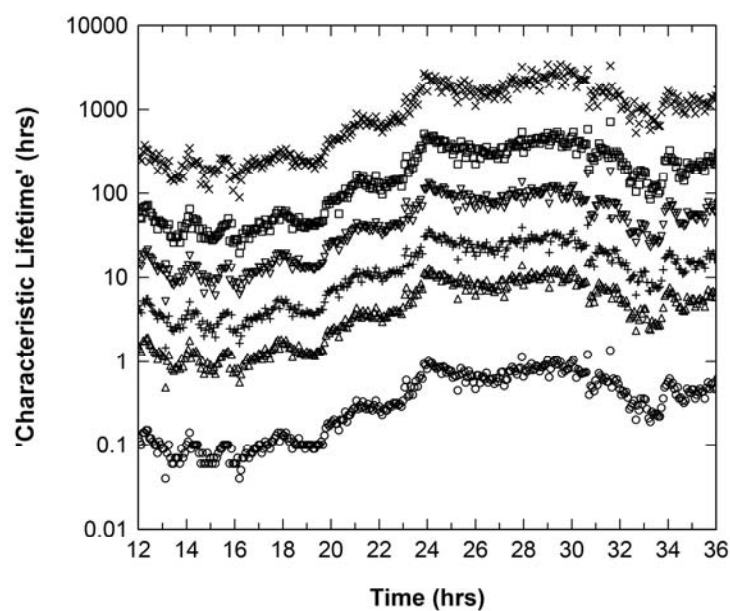


(b)

Fig. S3 Variation in modeled coagulation sinks for different particle sizes during (a) bonfire and (b) comparison periods: o 1 nm; Δ 5.05 nm; + 10.4 nm; ∇ 24.6 nm; \square 50.5 nm; \times 100 nm



(a)



(b)

Fig. S4 Variation in modeled characteristic lifetimes for different particle sizes during (a) bonfire and (b) comparison periods: o 1 nm; Δ 5.05 nm; + 10.4 nm; ∇ 24.6 nm; \square 50.5 nm; \times 100 nm