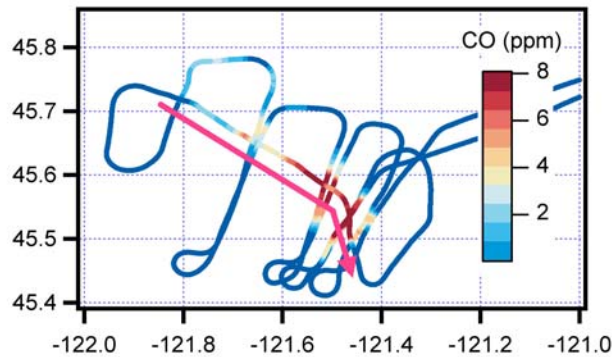


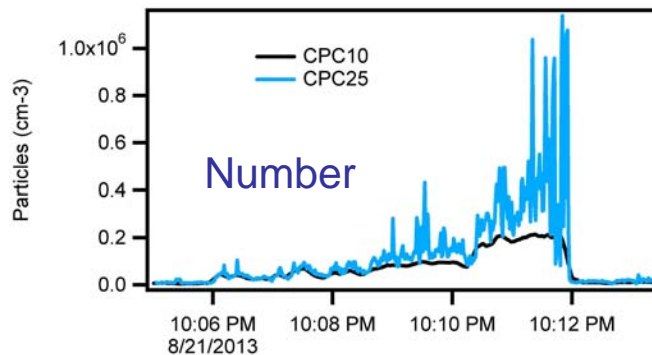
SOA Formation and Aerosol Size Distributions

Government Flats, largest fire sampled

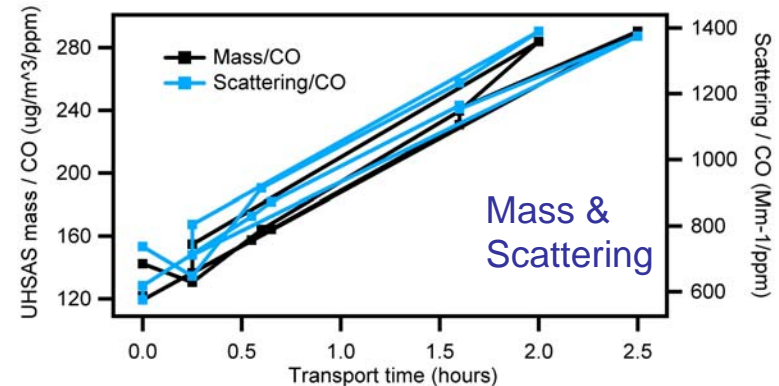
2.5 hours pseudo-Lagrangian transport
Normalize to CO to account for dilution



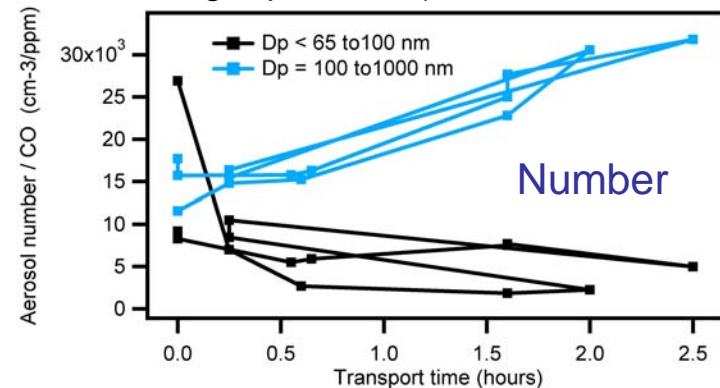
$>10^6$ particles (cm^{-3}) near fire
Coagulation lifetime < 1 hour



Aerosol Mass and Scattering increase by factor > 2
Each data point is a Transect Average..



Mass increase is from more particles,
not larger particles (same as Mexico City)



Regime where NPF, Coagulation, and Condensation are important (& constrained by obs.).

Plan: When all data become available, run chemical-microphysical models (Rahul Zaveri, lead)

Object: Test mechanisms. Generalize. Predict Impacts.