

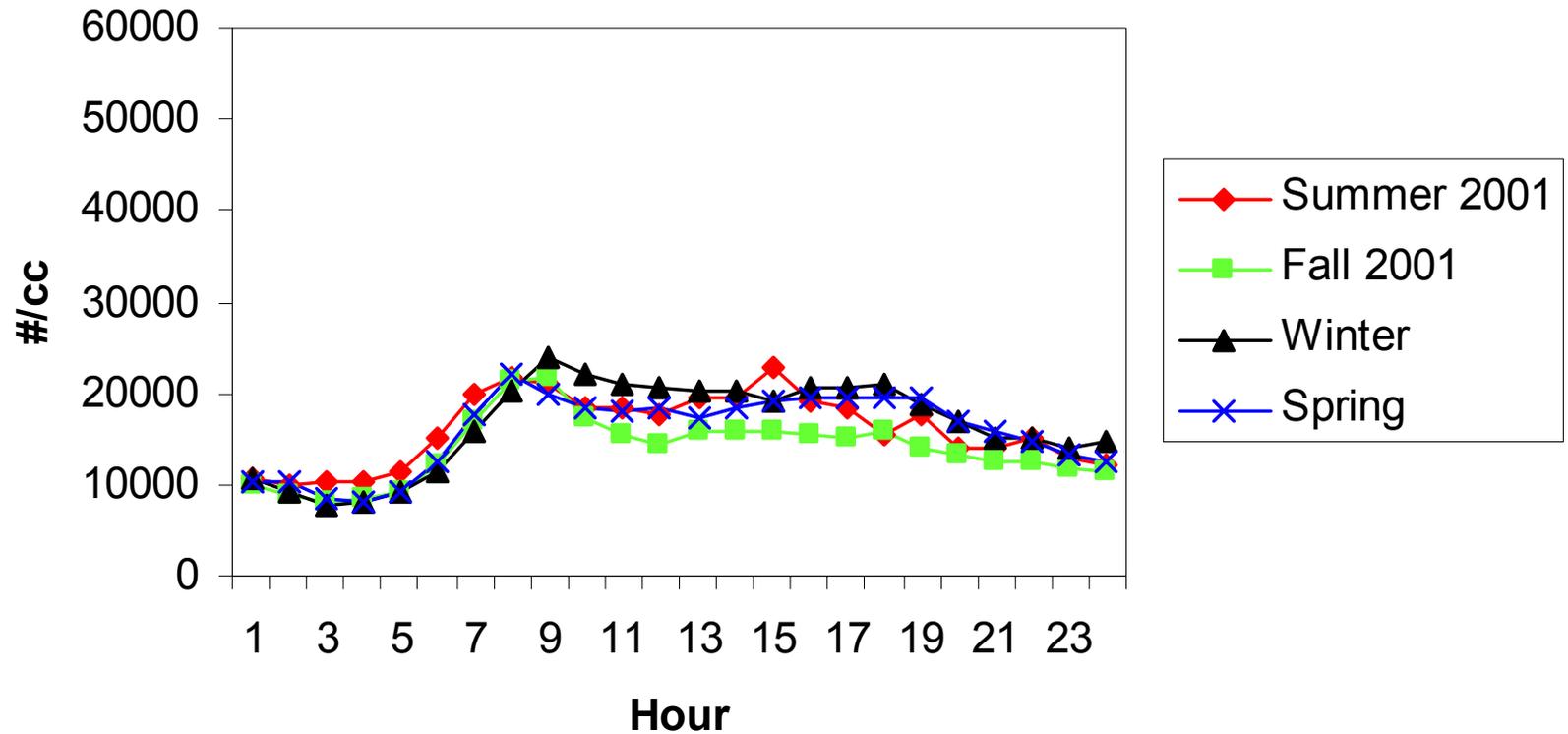
Seasonal Variation in the Number and Properties of Fine PM

Andrey Khlystov, Charles Stanier and Spyros
Pandis

Carnegie Mellon University

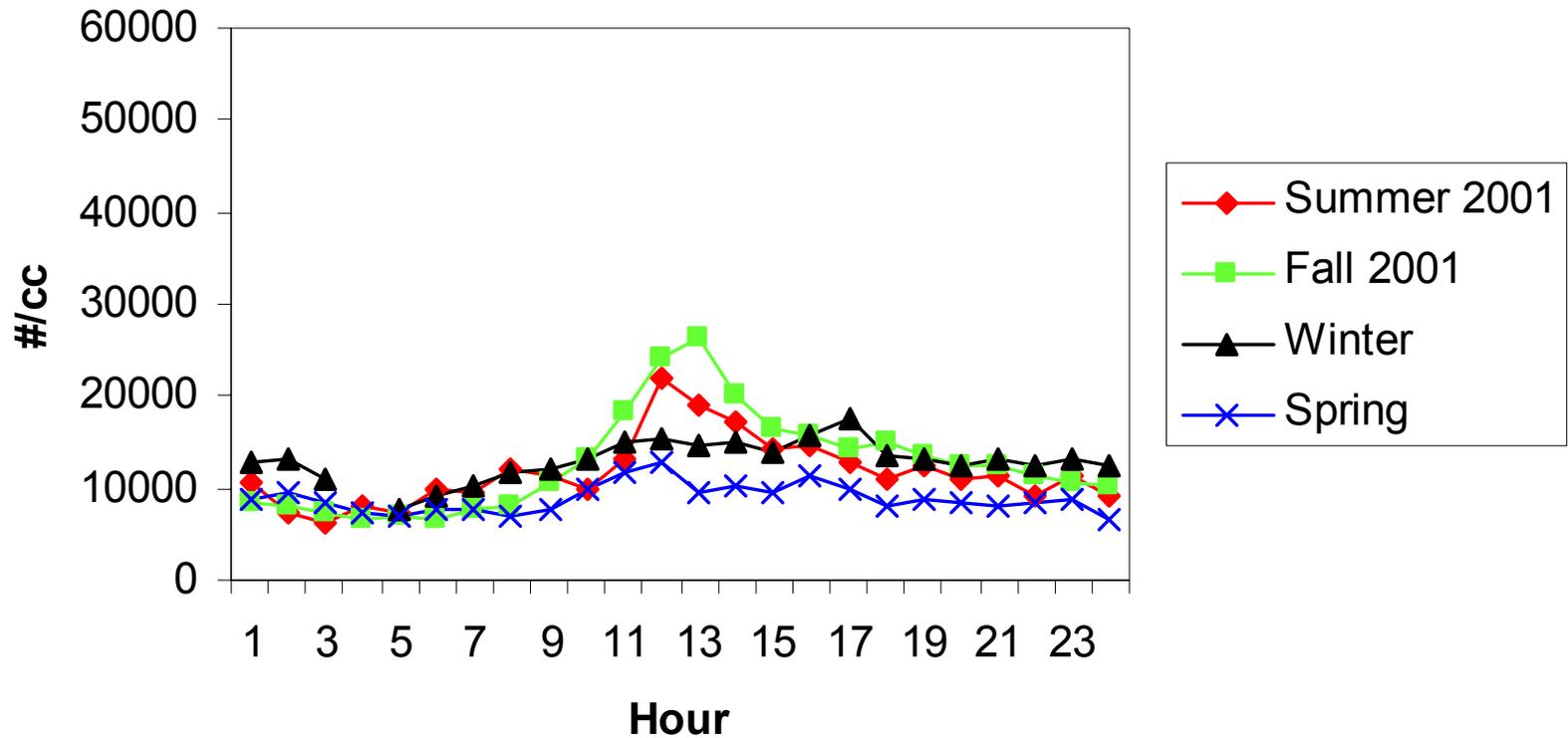
Seasonal variation of diurnal pattern (Pittsburgh)

Weekdays, no nucleation

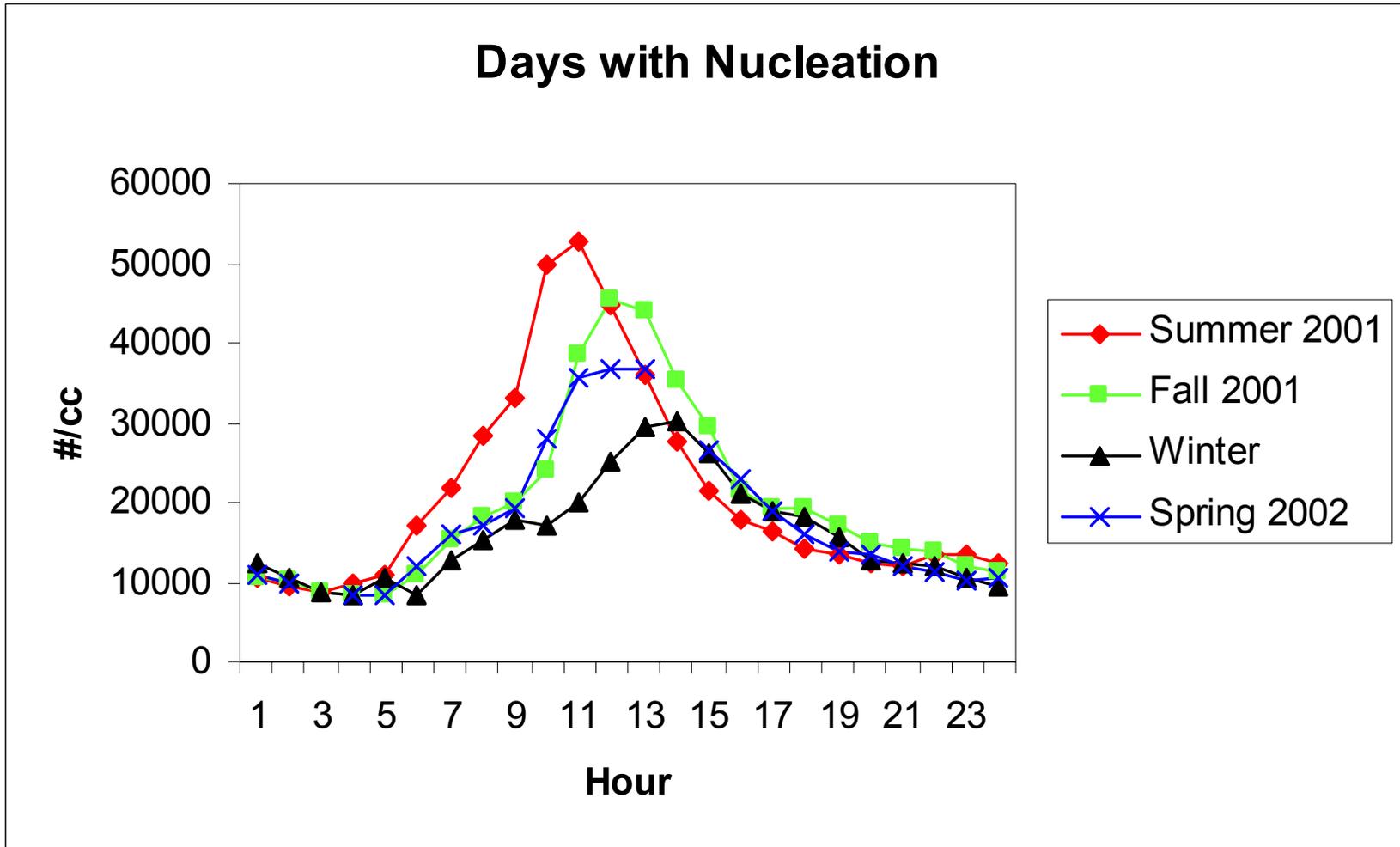


Seasonal variation of diurnal pattern (Pittsburgh)

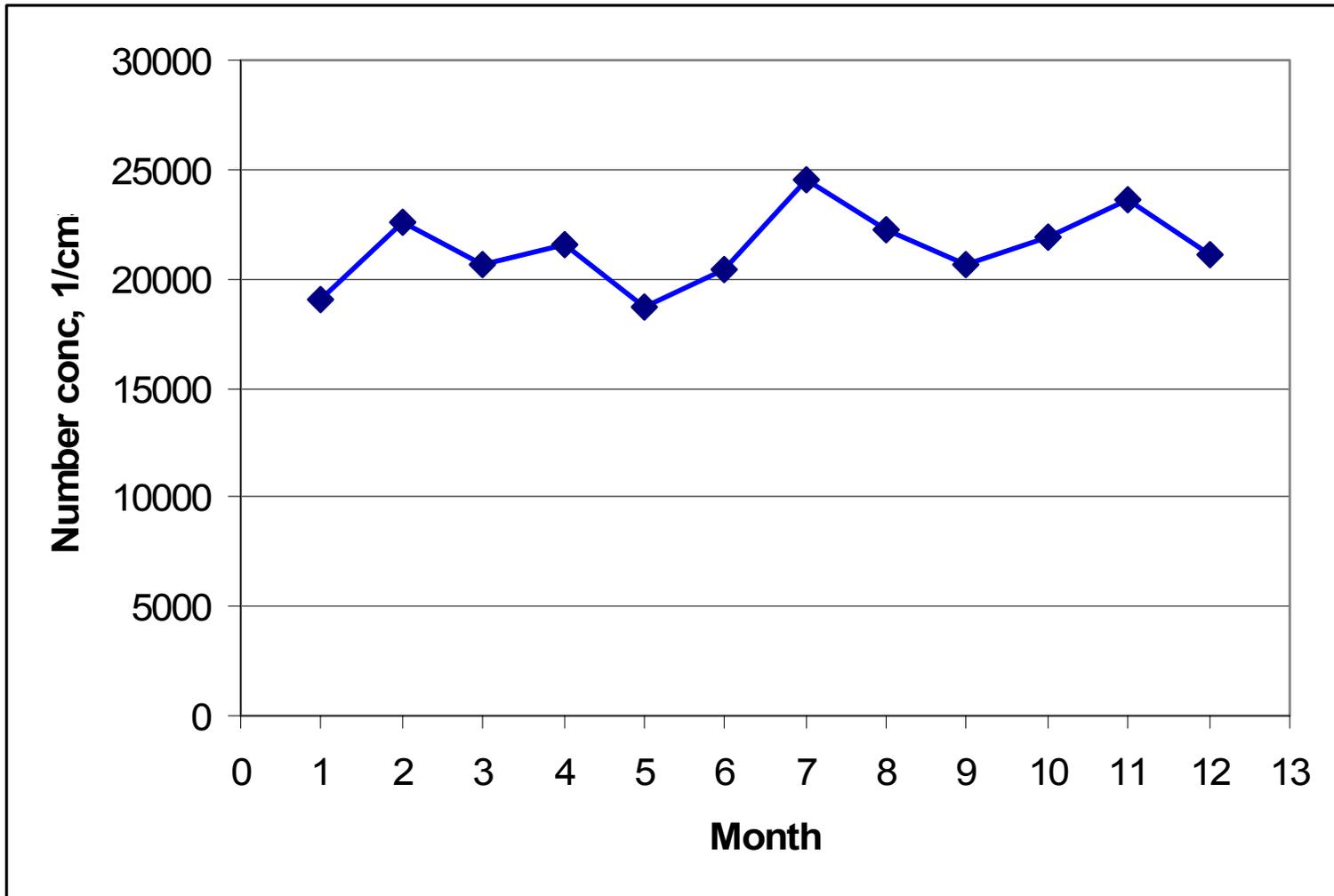
Weekends, no nucleation



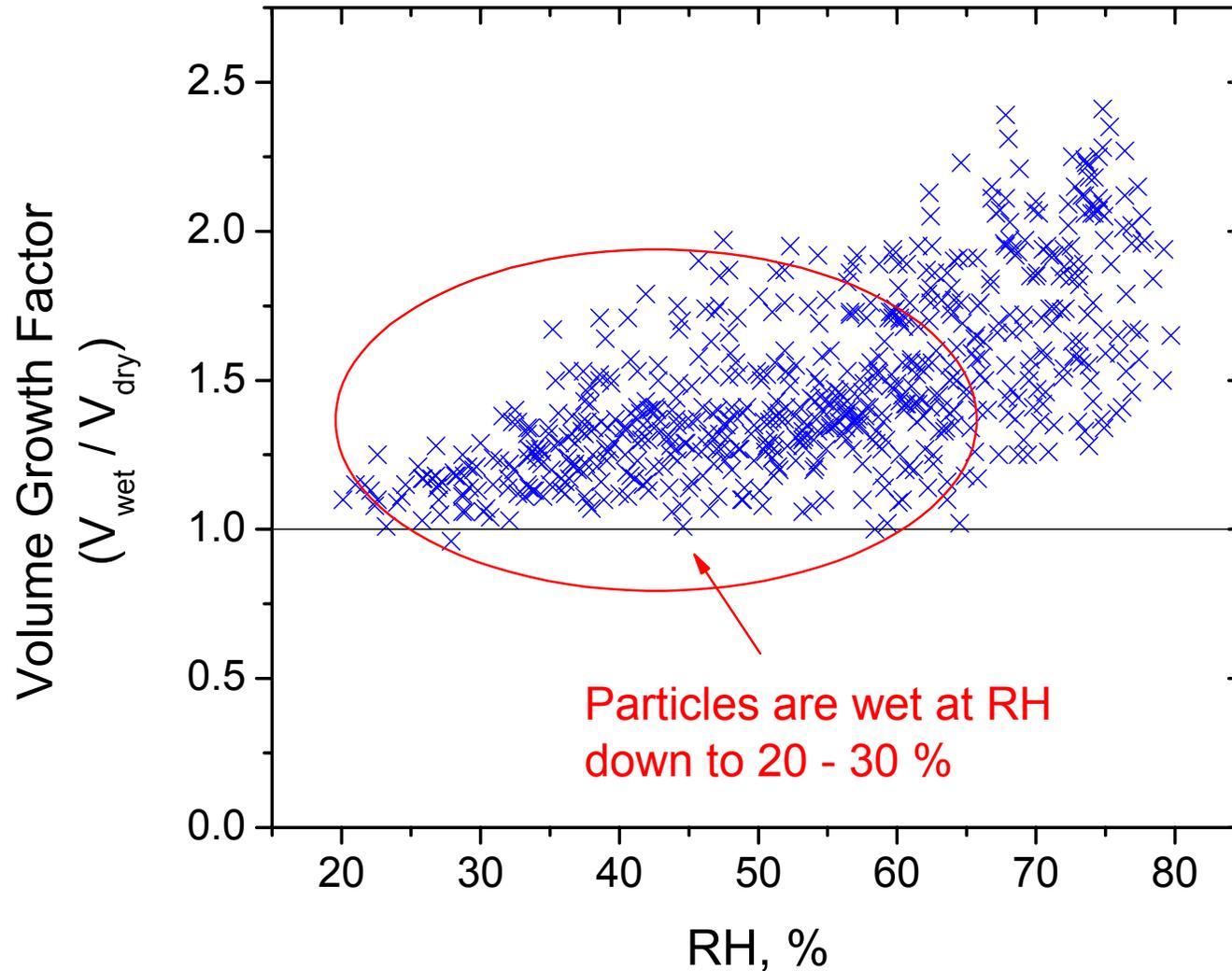
Seasonal variation of diurnal pattern (Pittsburgh)



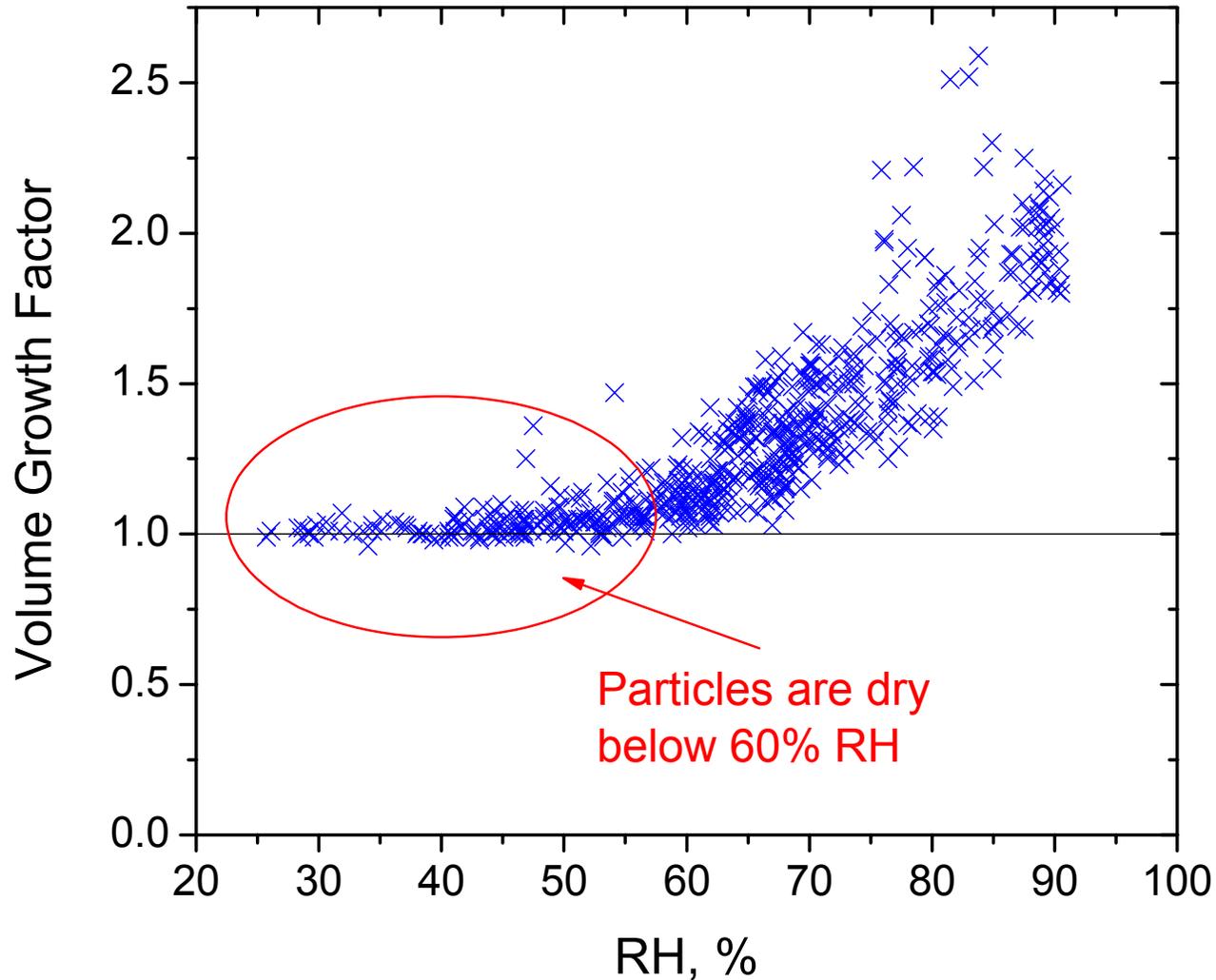
Number concentration during 2001-2002 (Pittsburgh)



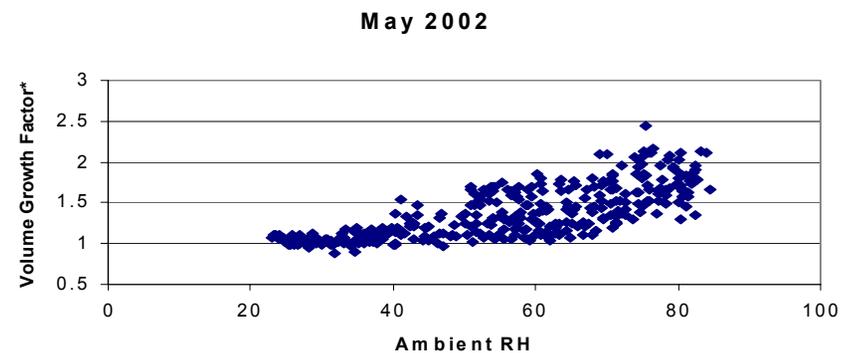
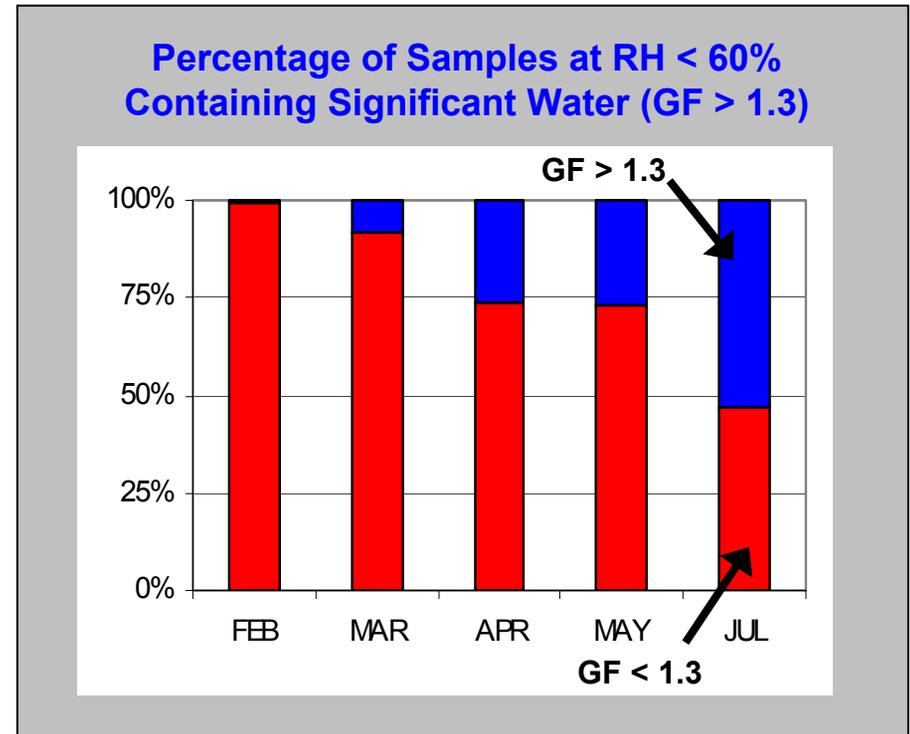
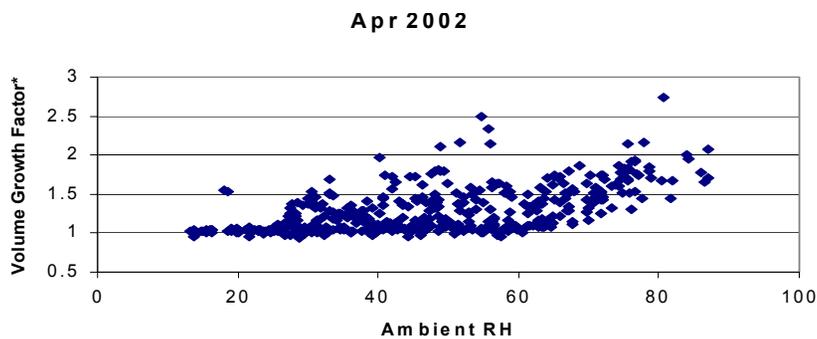
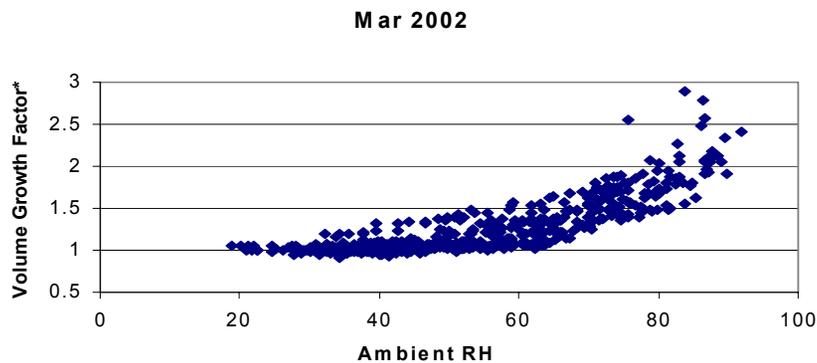
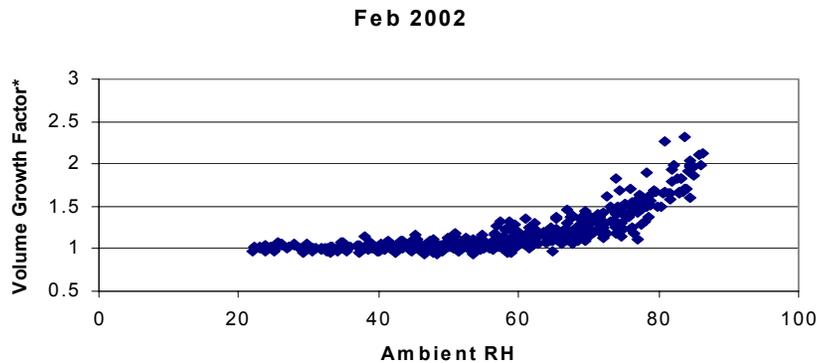
Aerosol Water in Pittsburgh July 2001



Aerosol Water in Pittsburgh January 2002

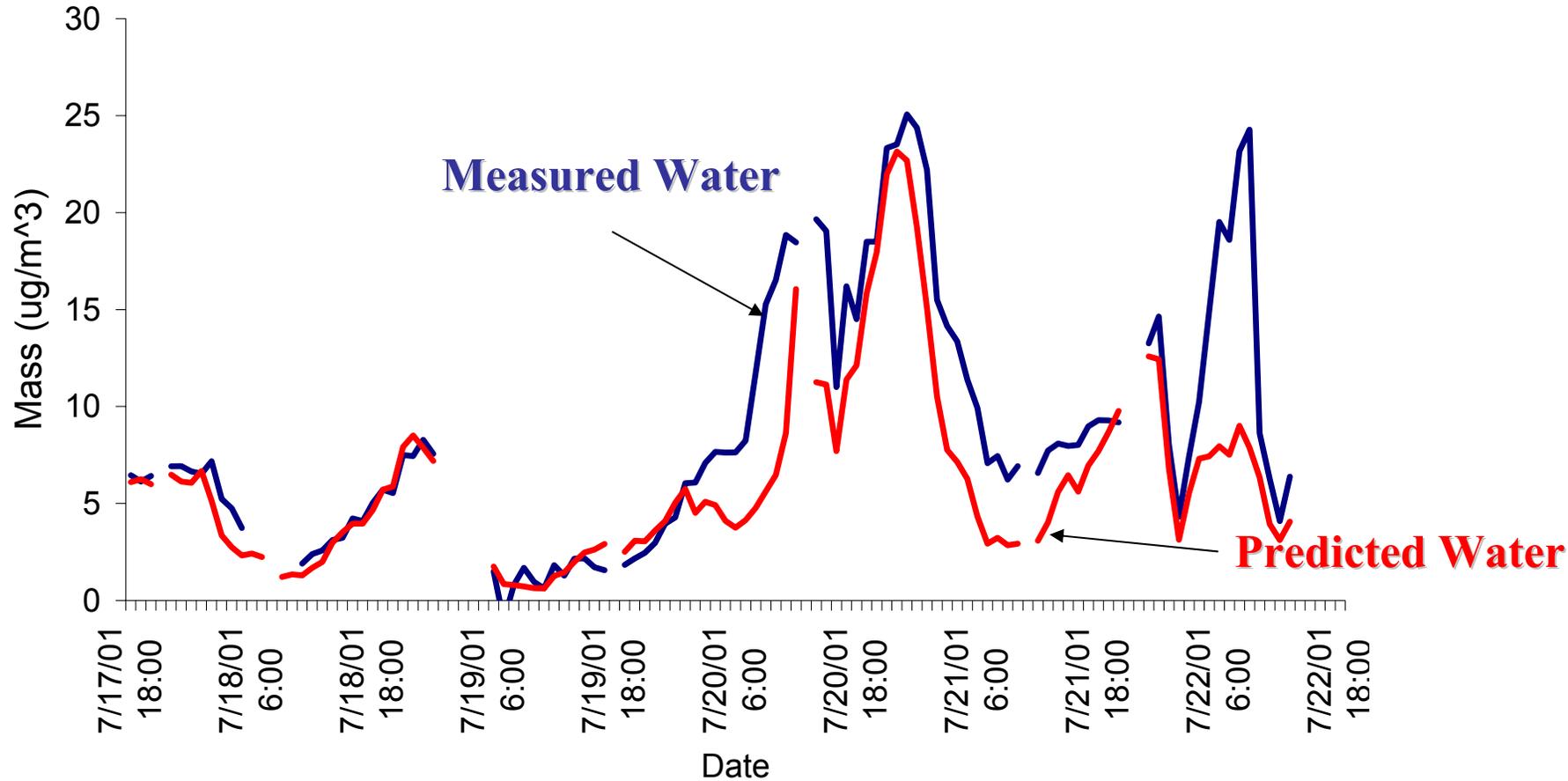


Aerosol Water During Spring 2002

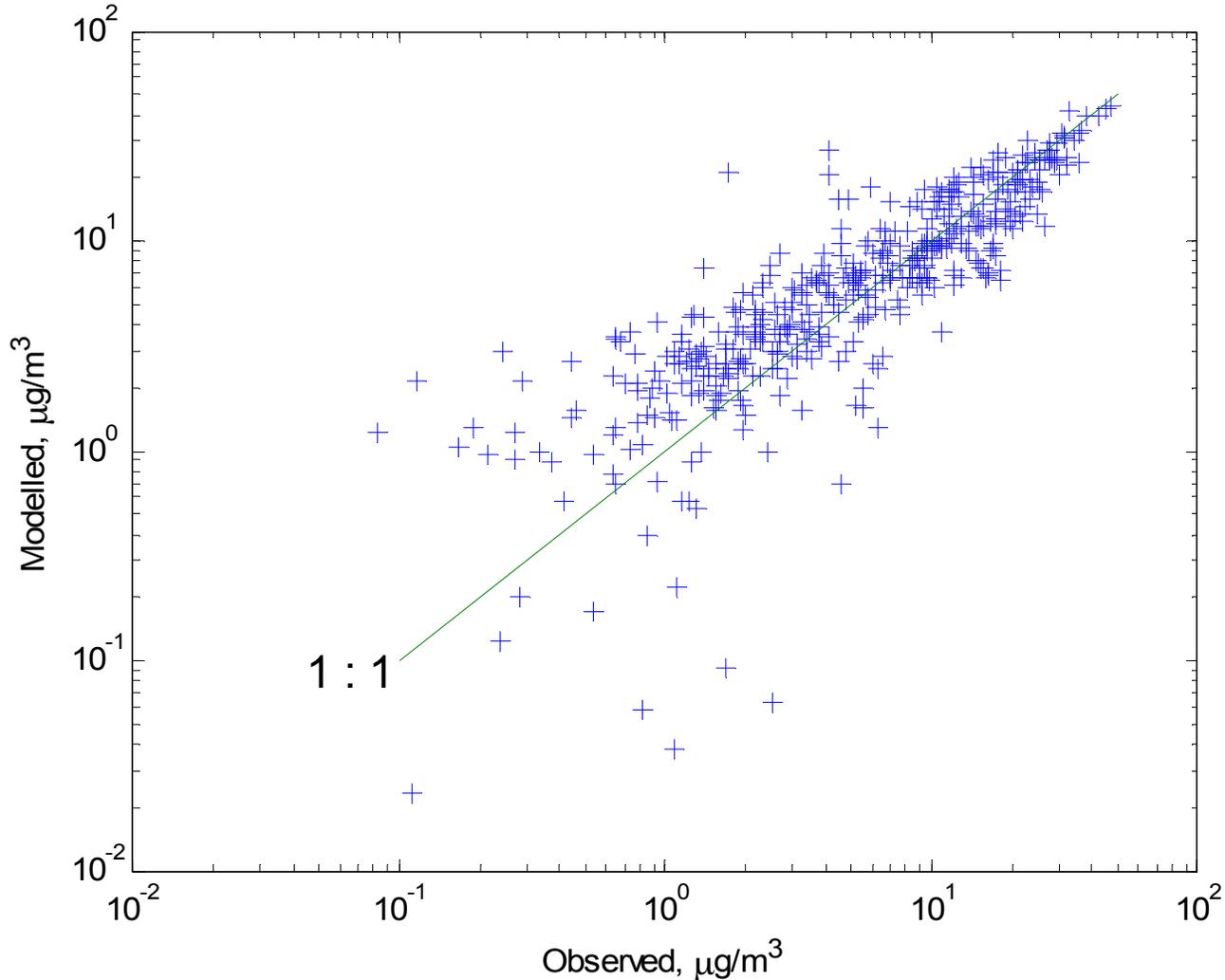


*Volume Growth Factor = Aerosol Volume at Ambient RH / Aerosol Volume at Dry RH

Predicted v. Measured Water



Model vs. Observations (July 2001, neglecting organics)



The Growth Appears To Be Uniform

- Our measurements show that the shape of size distribution is preserved suggesting a uniform growth

