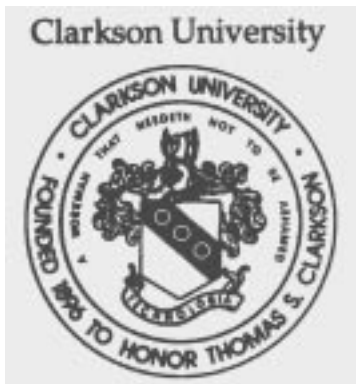


# Continuous Measurement of Carbon in the Ambient Atmosphere

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Eugene Kim, and Doh-Won Lee

Clarkson University



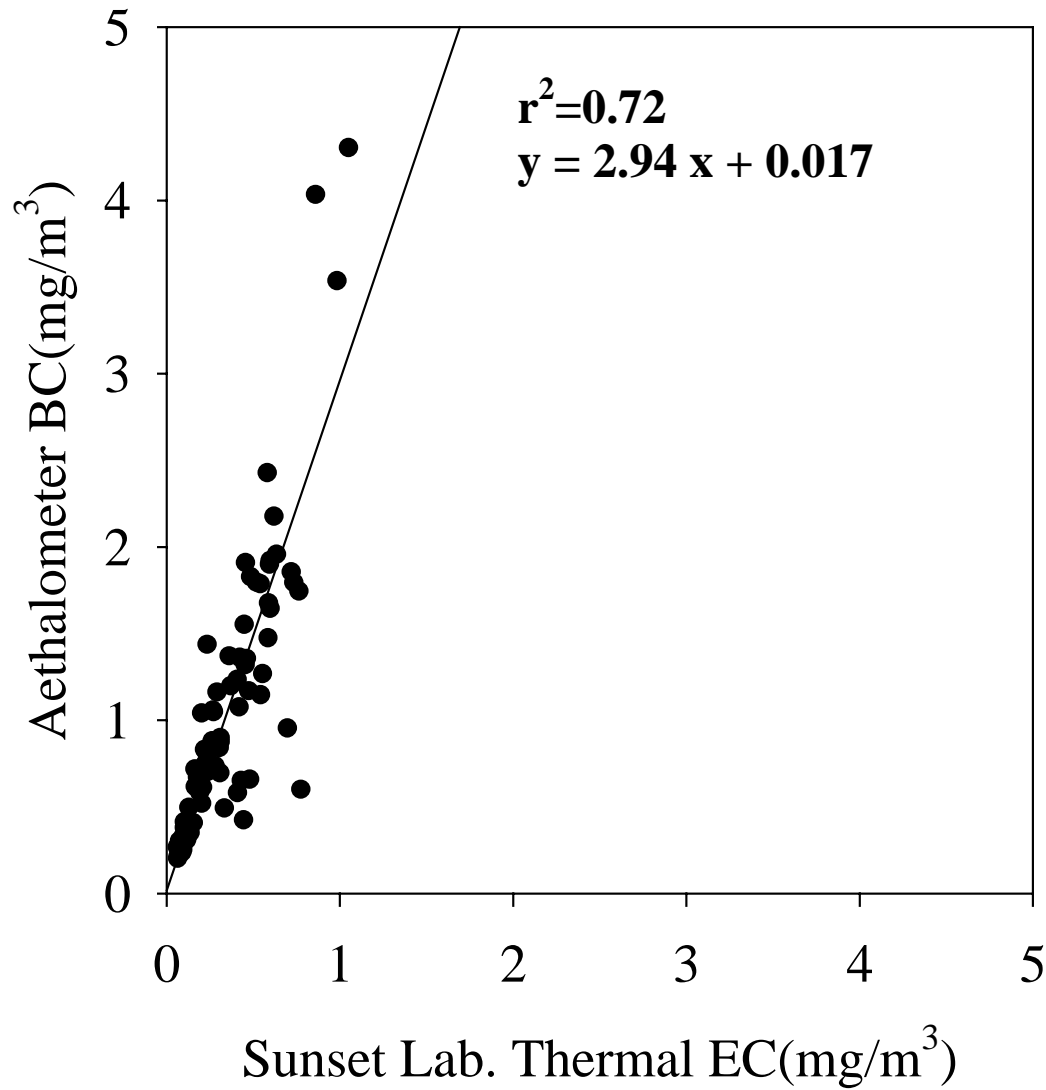
# Continuous Measurement Systems

- Magee Scientific Two-Wavelength Aethalometer
- HSPH Sulfate Monitor
- 30C TEOM with Nafion drier
- Sunset field OC/EC system

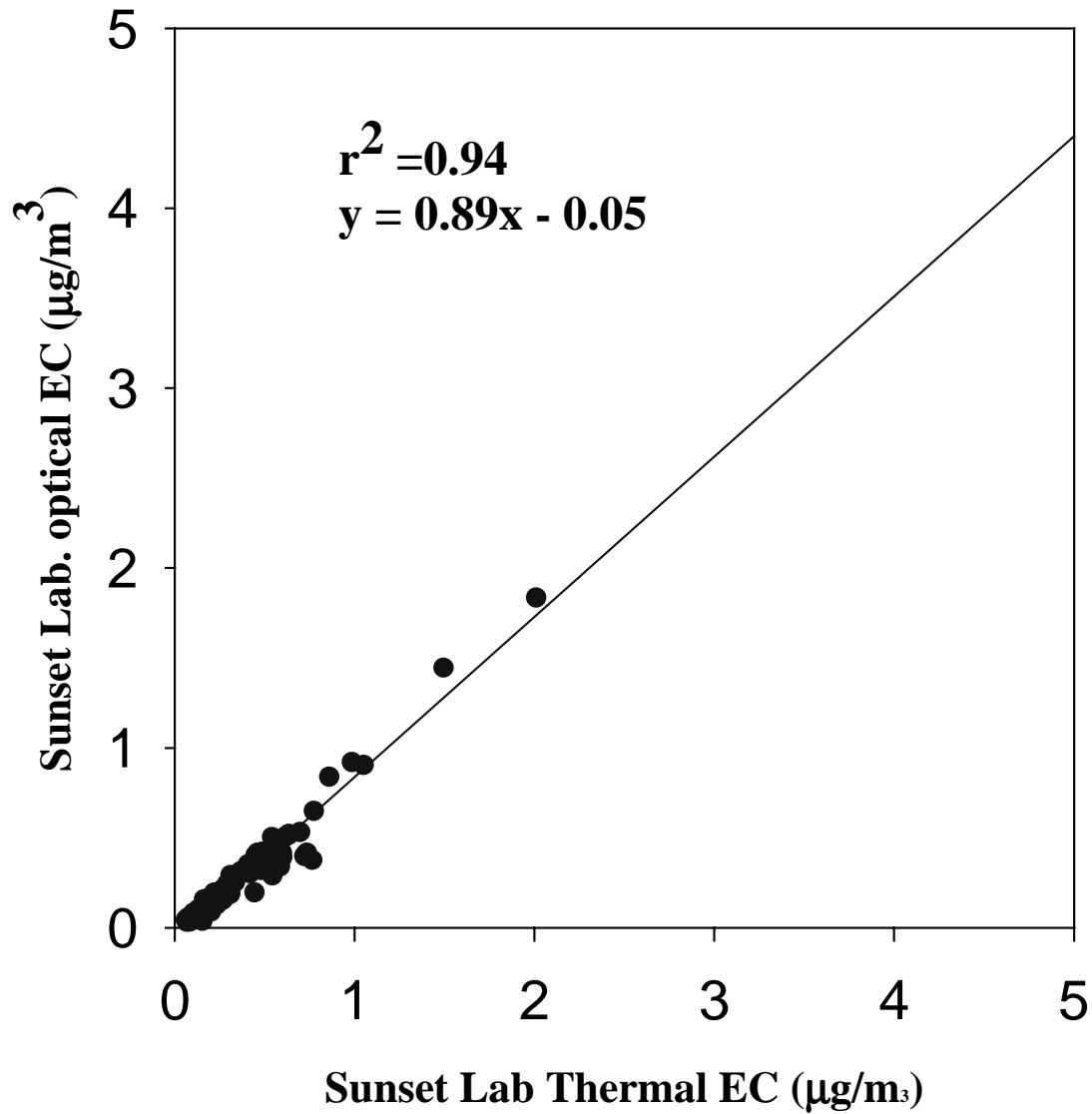
# Measurement Campaigns

- Measurements were in Rochester in early June 2002
  - Through the window of a laboratory approximately 3 meters from a local roadway near the UR Medical Center.
- Measurements were made in Philadelphia during July 2002
  - Site in North Philadelphia at the Baxter Water Treatment Plant. About 0.5 km east of I-95

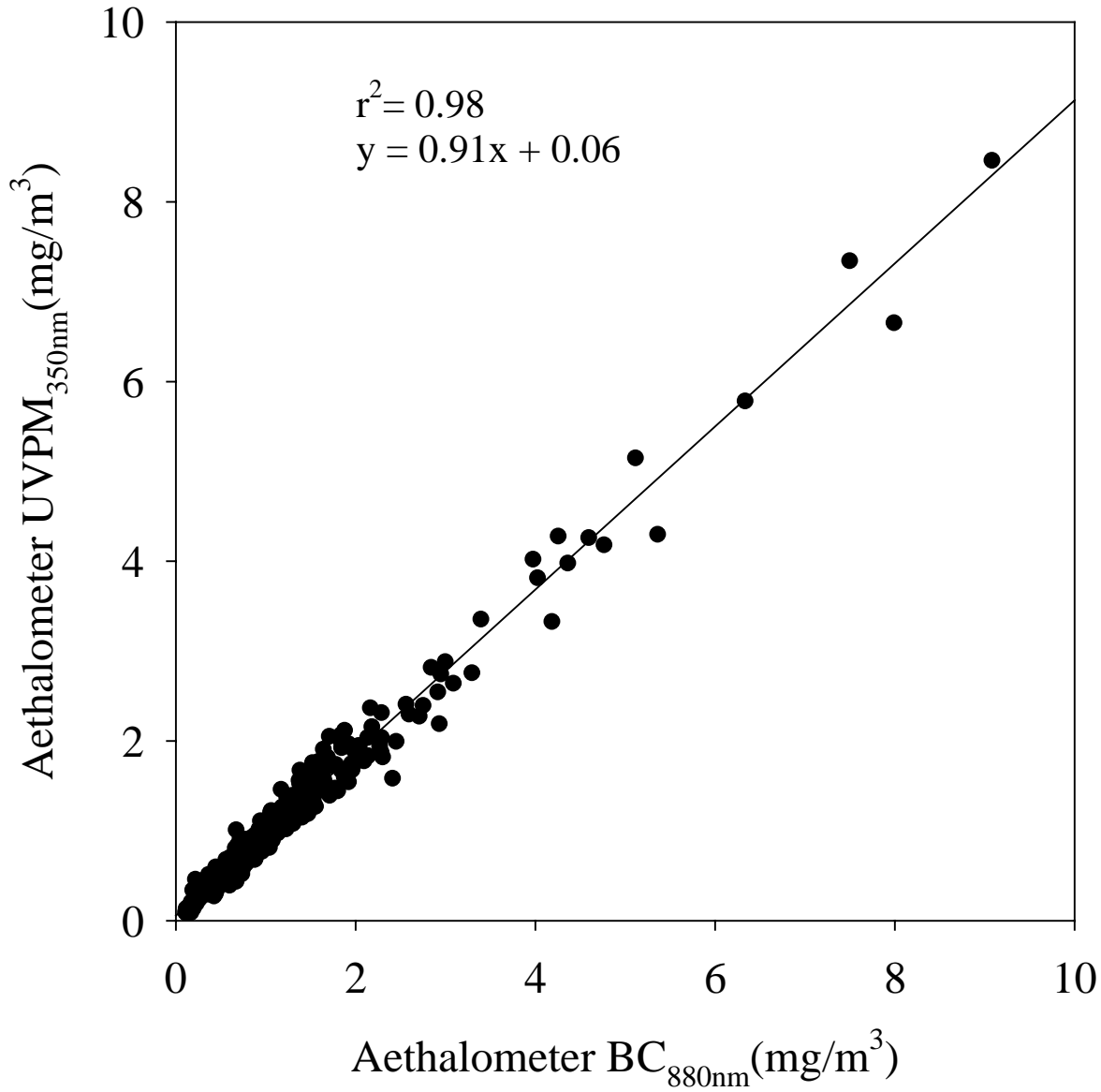
# Rochester June 2002



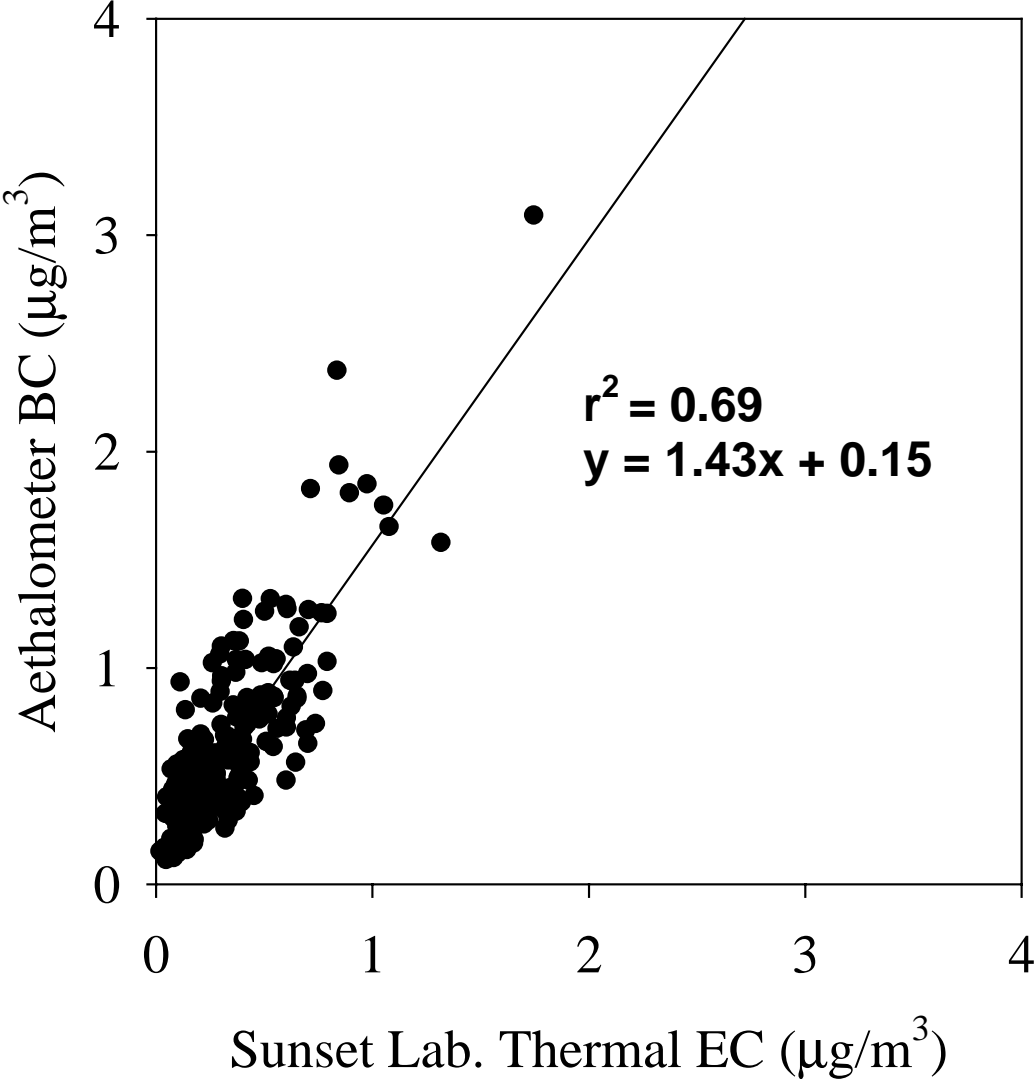
Rochester June 2002



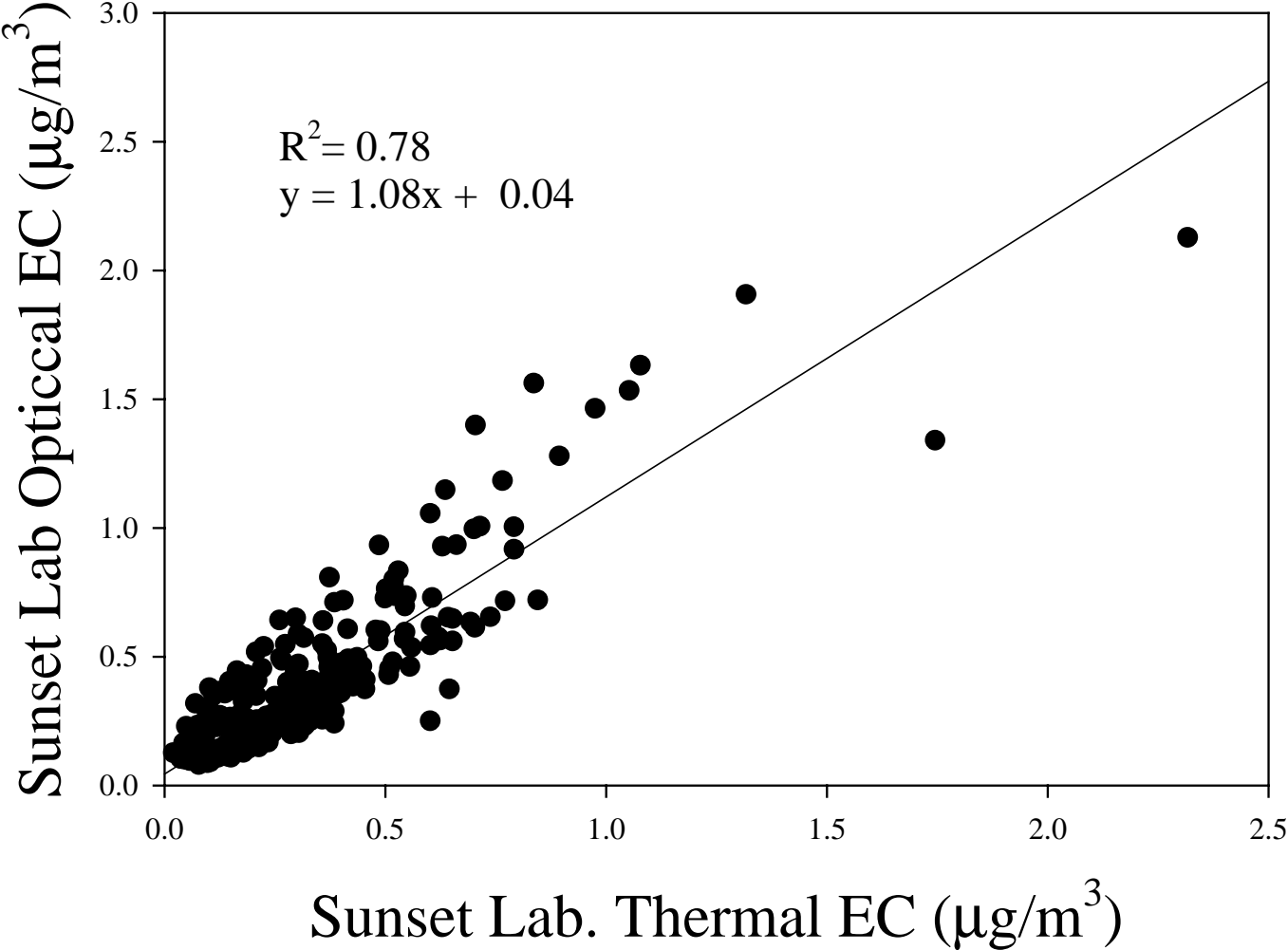
# Rochester June 2002



# Philadelphia – non-Fire

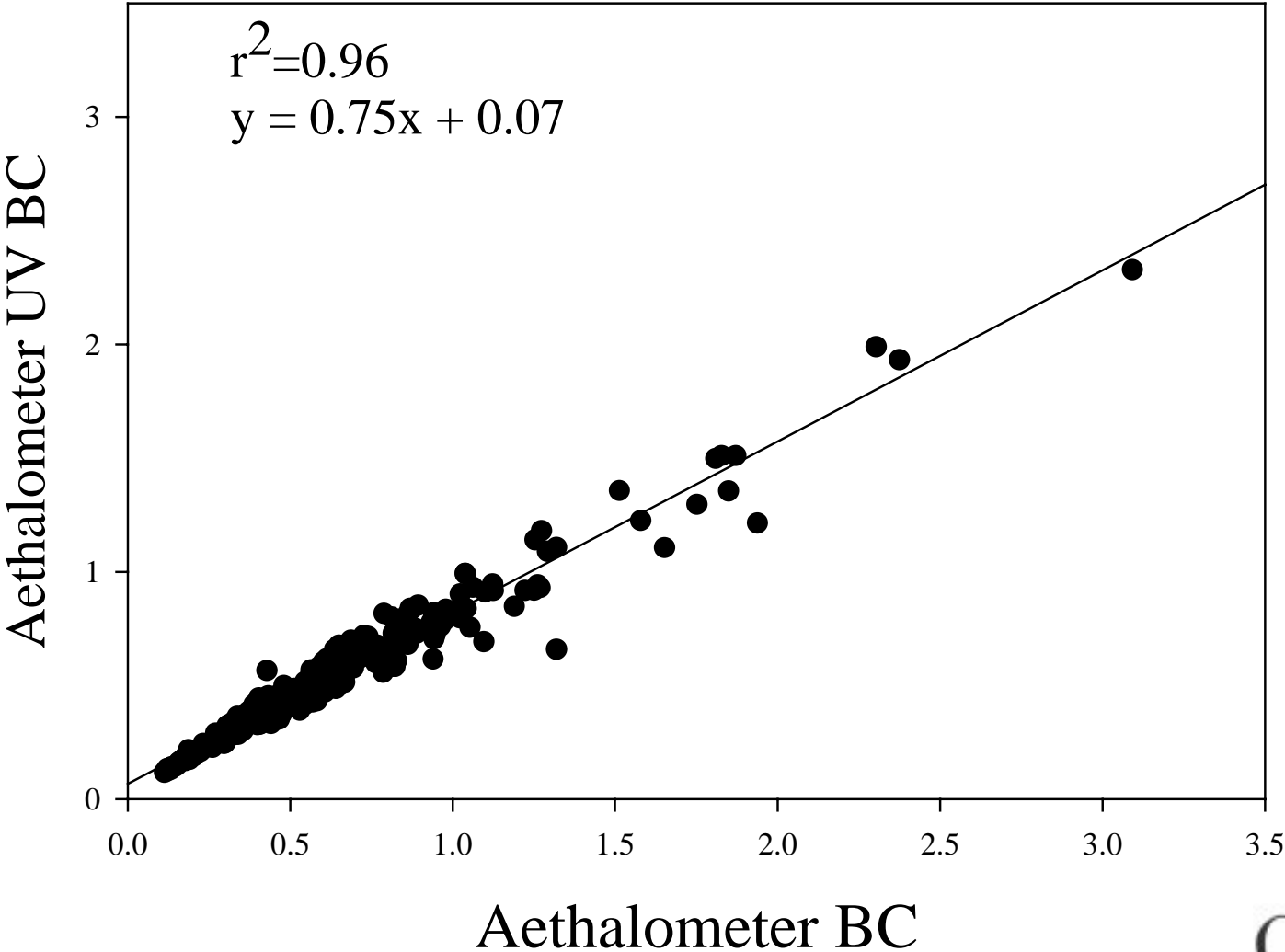


# Philadelphia – non-Fire

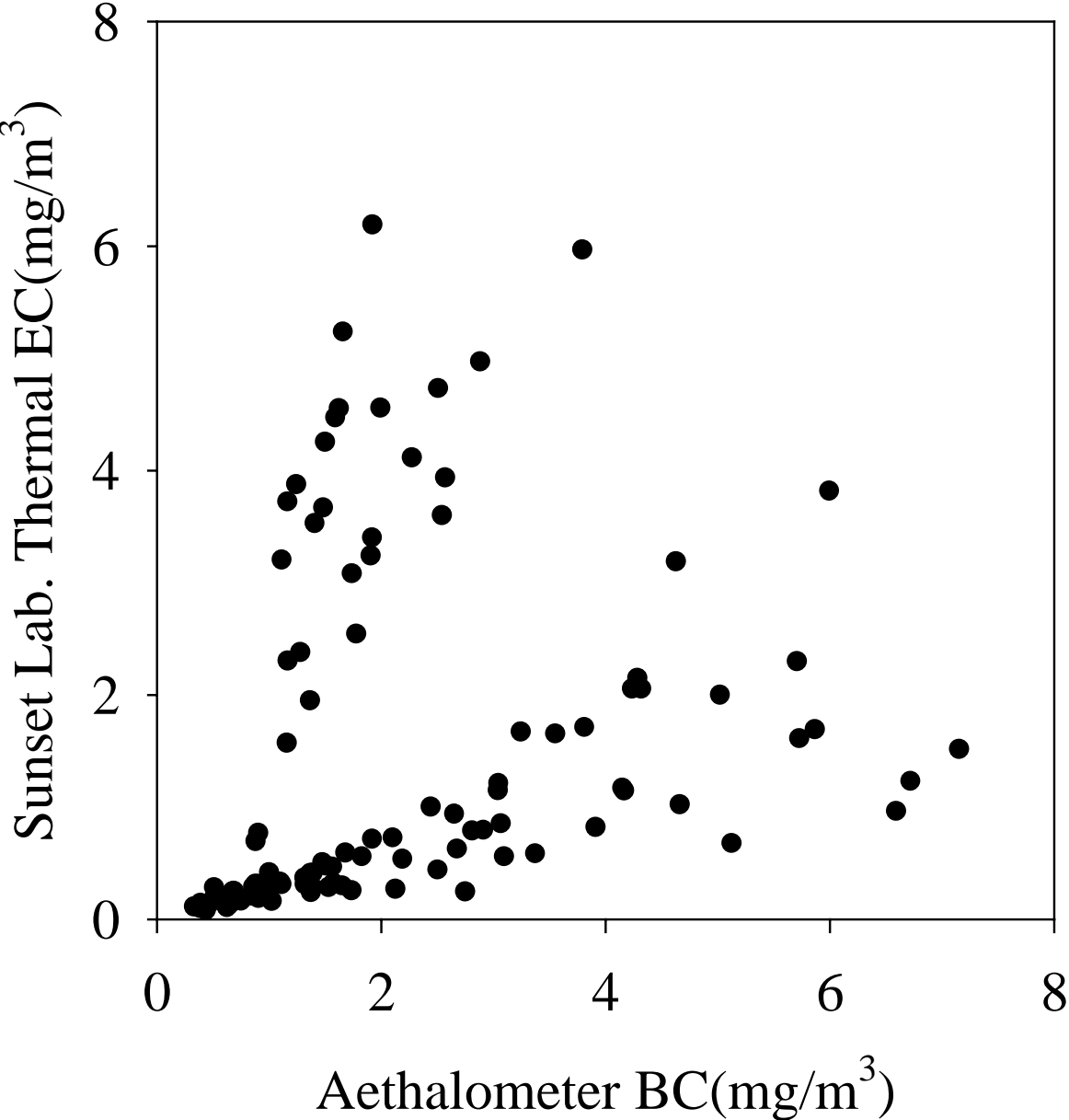




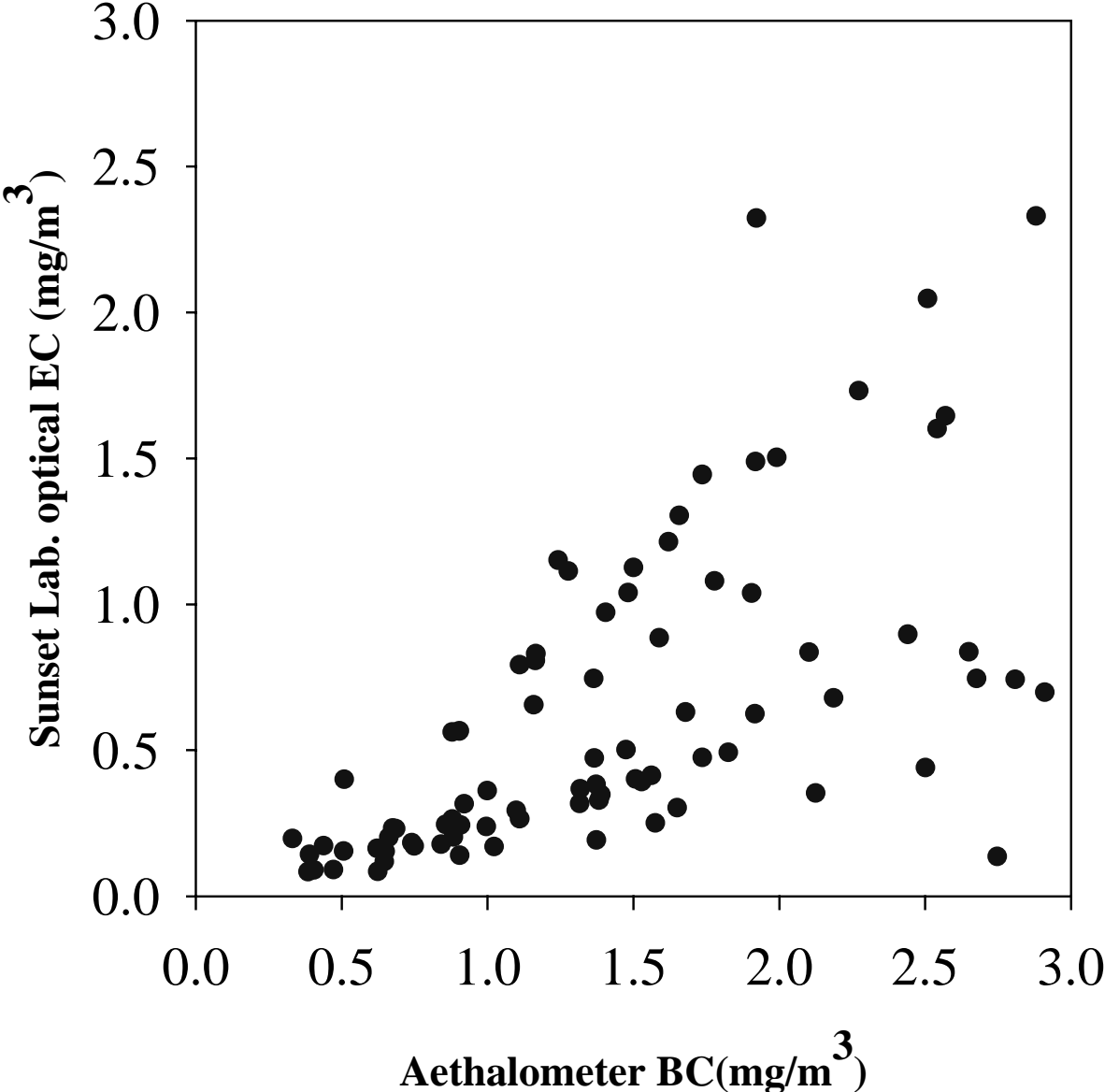
# Philadelphia – non-Fire



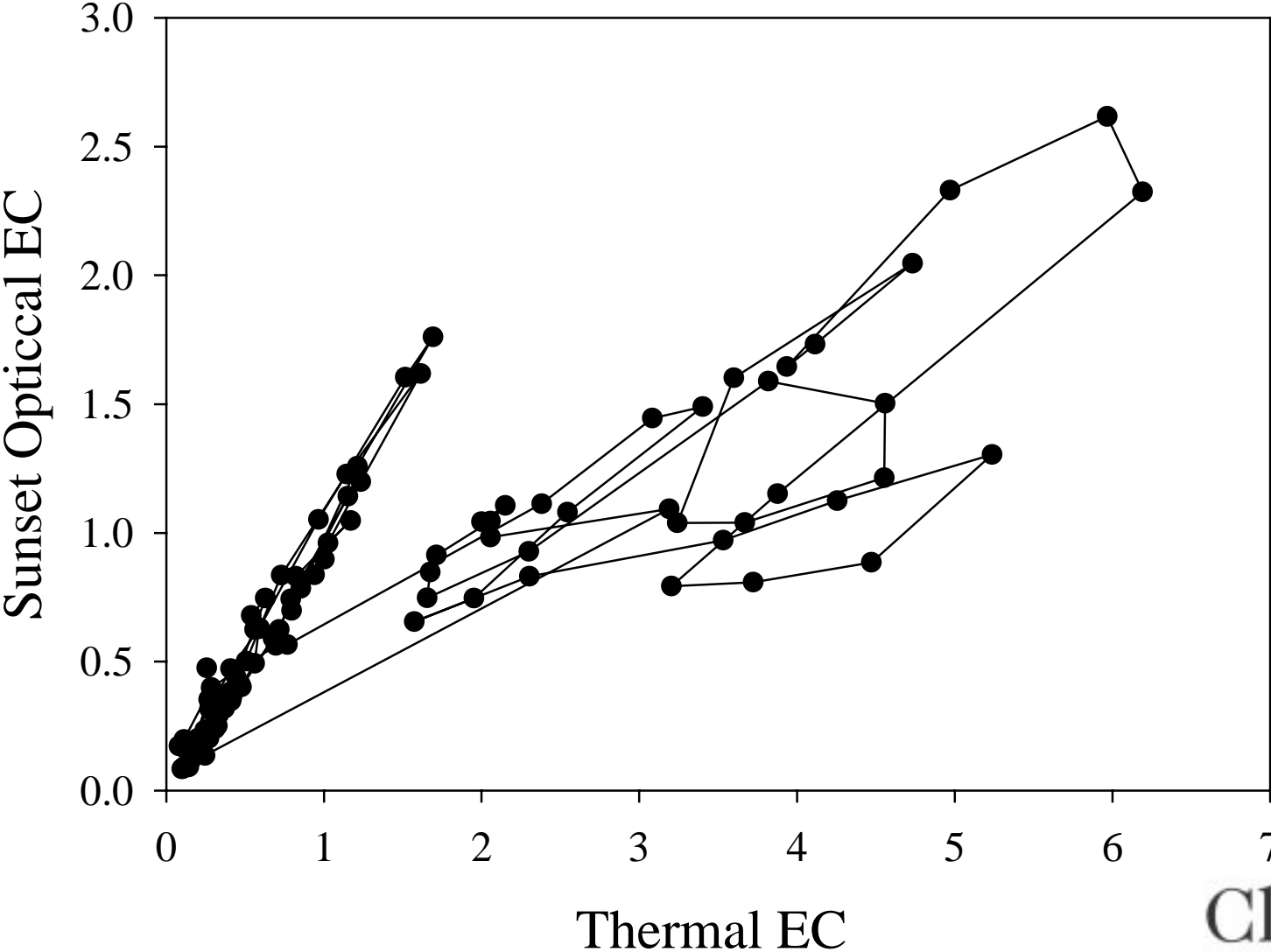
# Philadelphia – Fire



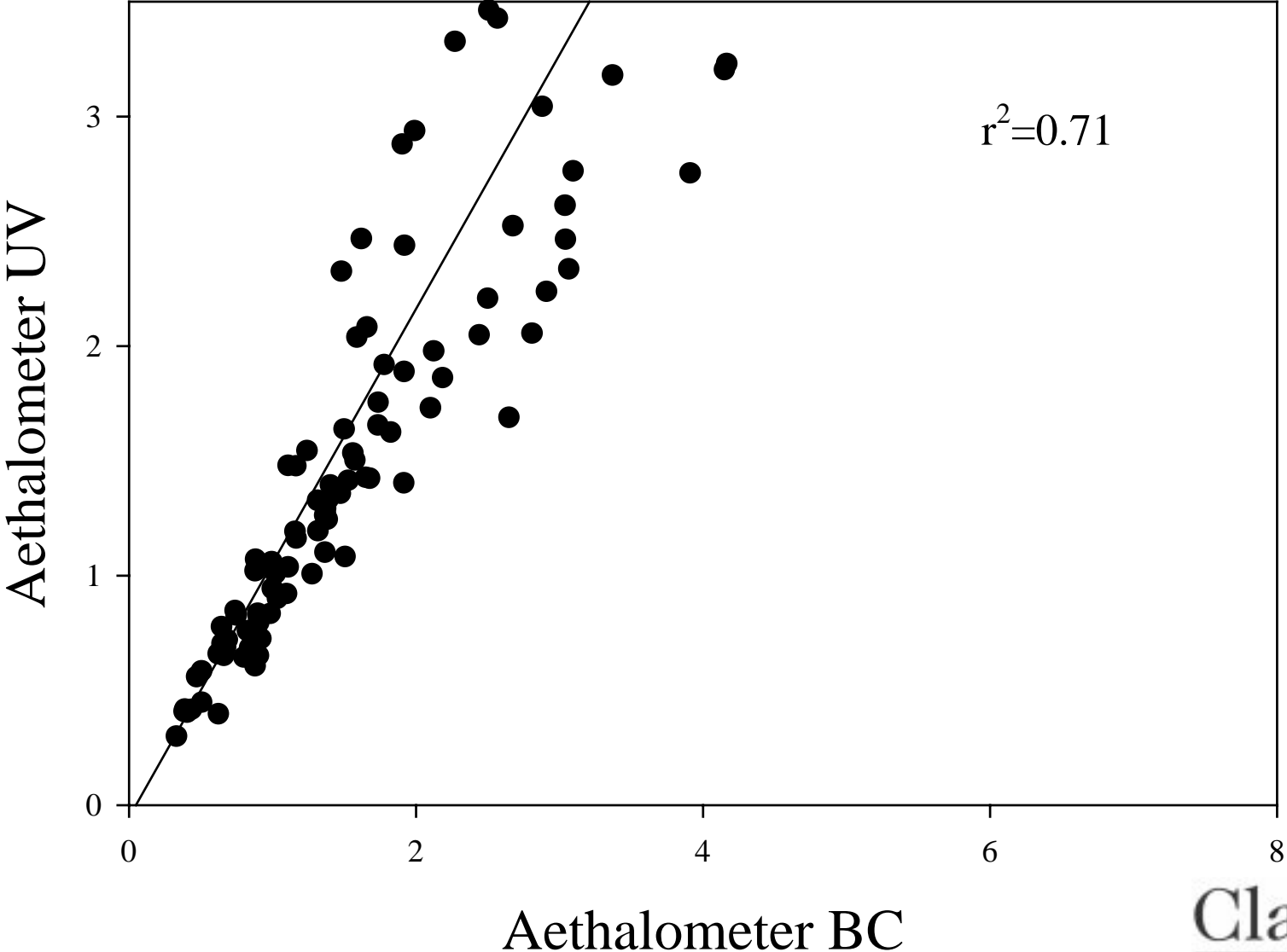
# Philadelphia – Fire



# Philadelphia – Fire



# Philadelphia – Fire



# Summary

		Rochester	Philadelphia
BC	Thermal EC	2.94	1.43
Opt EC	Thermal EC	0.89	1.08
UV-BC	BC	0.91	0.75