CT BAM Experiences

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State of Connecticut

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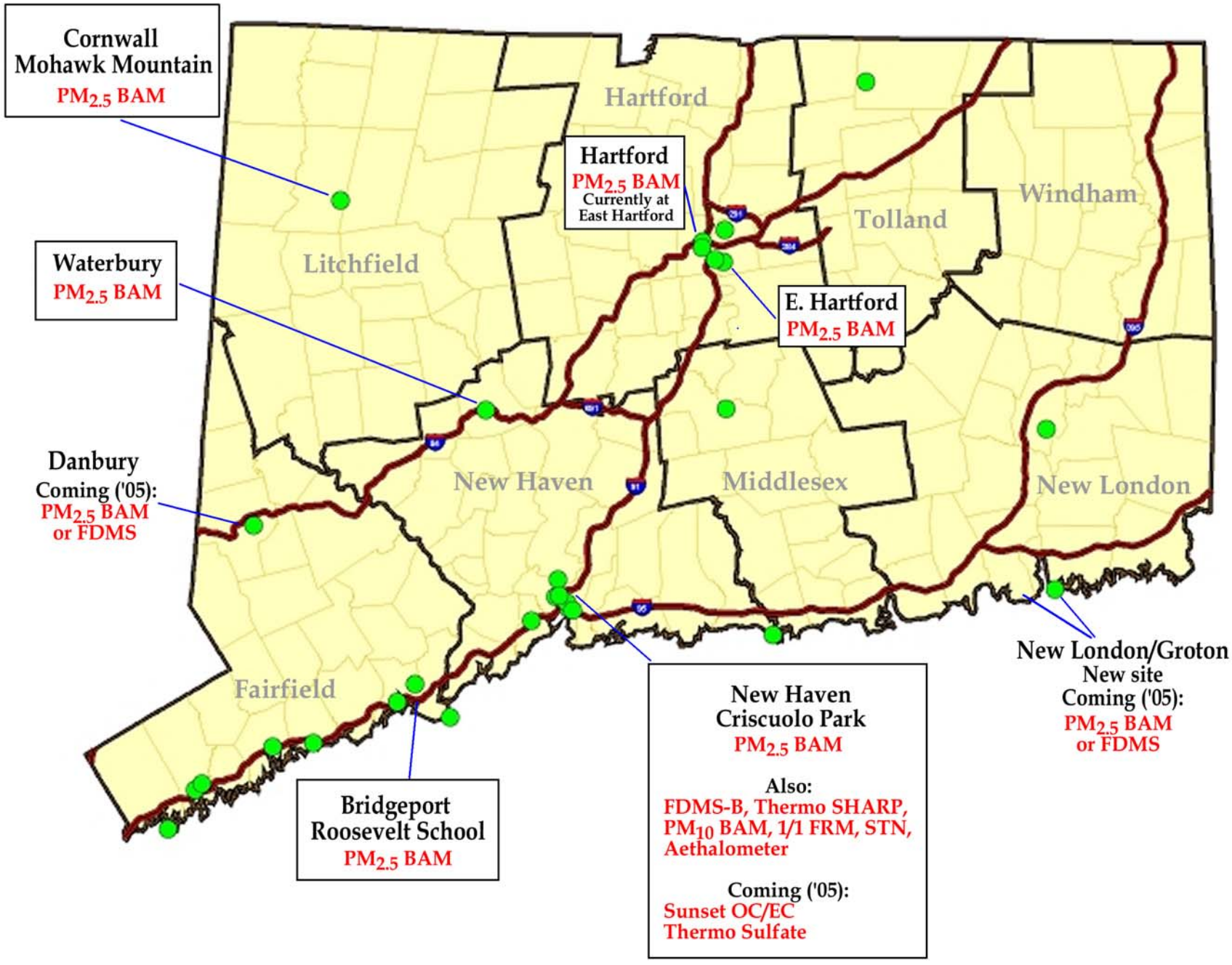
CT BAM Network



BAM Routine Maintenance

Weekly:

- Site
  - Wipe off nozzle
  - Check calibration factor and time
- ESC/Data Acquisition
  - Check PM2.5 channel; status channels if set up

Monthly:

- Site
  - Flow, temperature and pressure audits.
  - Leak check (usually below 1 lpm – old tape)
  - Clean (V)SSC
  - Download internal data.
- ESC
  - Scan monthly data a take note of any questionable periods

BAM Settings/Configurations

- Analog out channels
  - Can configure 1 analog out channel to ESC datalogger
  - Need to synchronize BAM and ESC clocks. Must be within 30 seconds at time of tape change in order to synchronize both.
  - Link to BAM ESC Datalogger setup: http://www.metone.com/bamuserdocs/BAM1020%20ESC%20Connection.pdf

- Status channels
  - Currently, CTDEP does not utilize status channels.

Proposed $PM_{2.5}$ National Equivalency Criteria

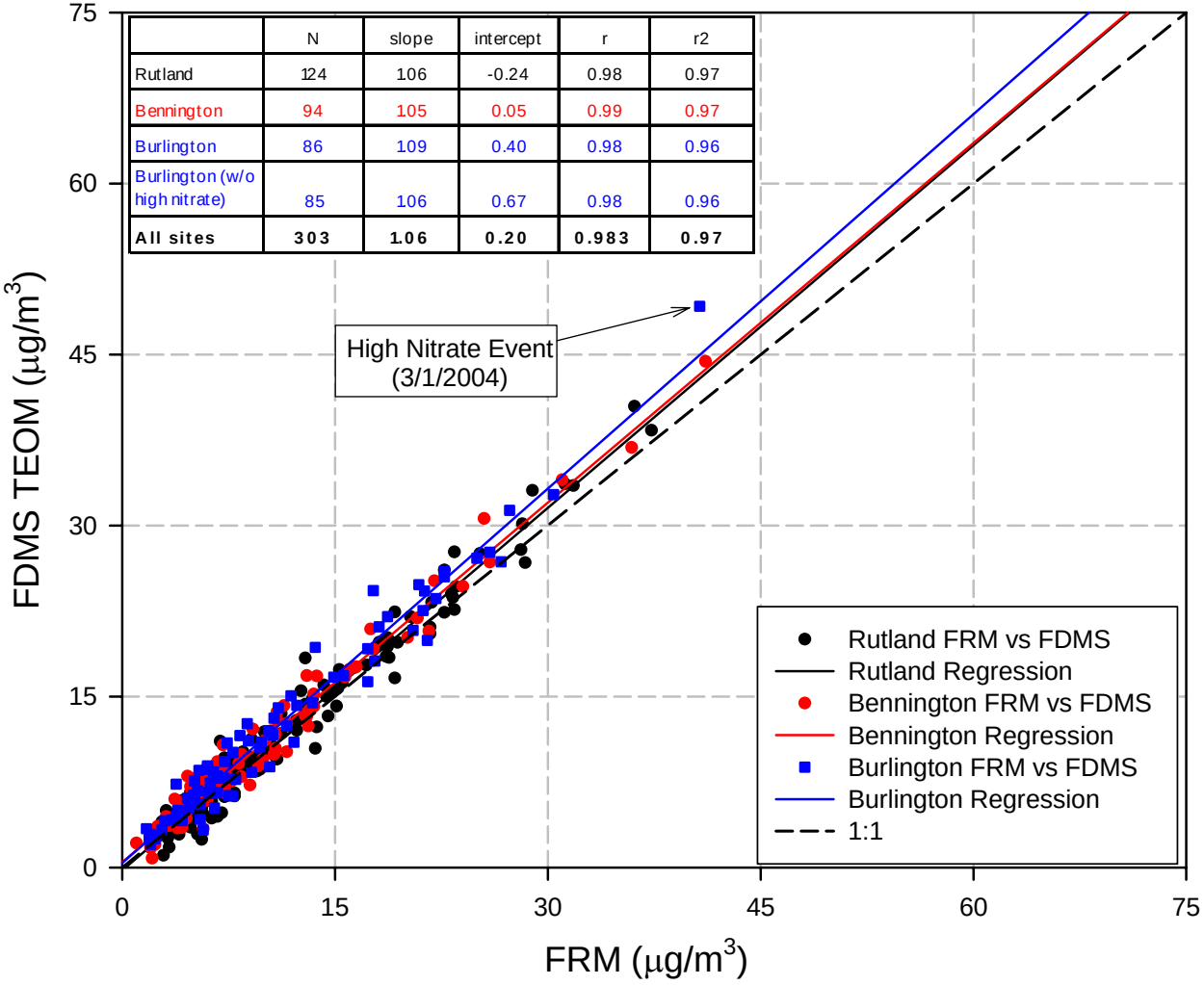
Workgroup Draft of $PM_{2.5}$ National Equivalency Criteria

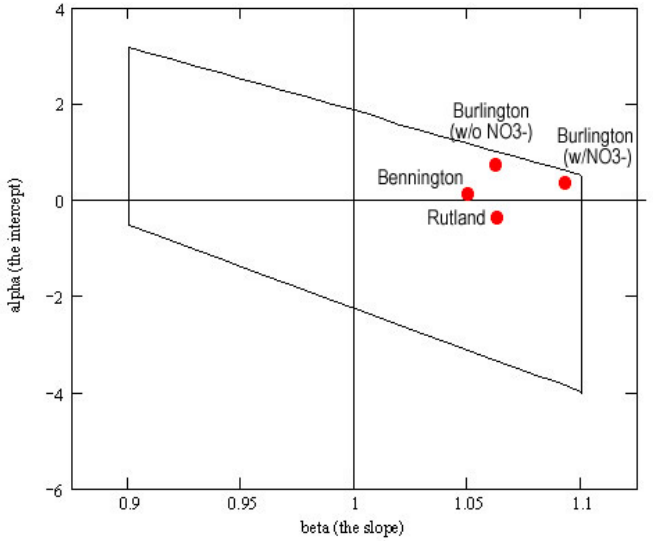
For illustrative purposes only, do not cite or quote

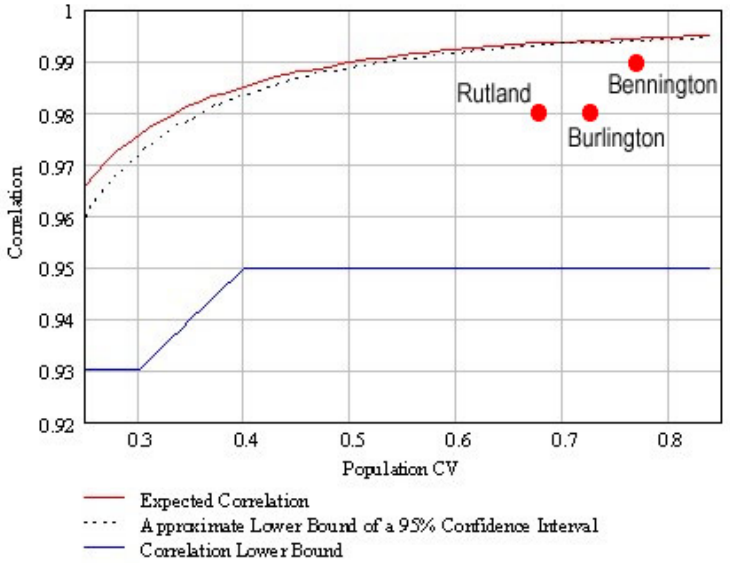
Vermont FRM vs FDMS TEOM 24hr $PM_{2.5}$ Averages

3 sites; December 2002 through June 2004

	N	slope	intercept	r	r2
Rutland	124	1.06	-0.24	0.98	0.97
Bennington	94	1.05	0.05	0.99	0.97
Burlington	86	1.09	0.40	0.98	0.96
Burlington (w/o high nitrate)	85	1.06	0.67	0.98	0.96
All sites	**303**	**1.06**	**0.20**	**0.983**	**0.97**







Proposed $PM_{2.5}$ National Equivalency Criteria

Workgroup Draft of $PM_{2.5}$ National Equivalency Criteria

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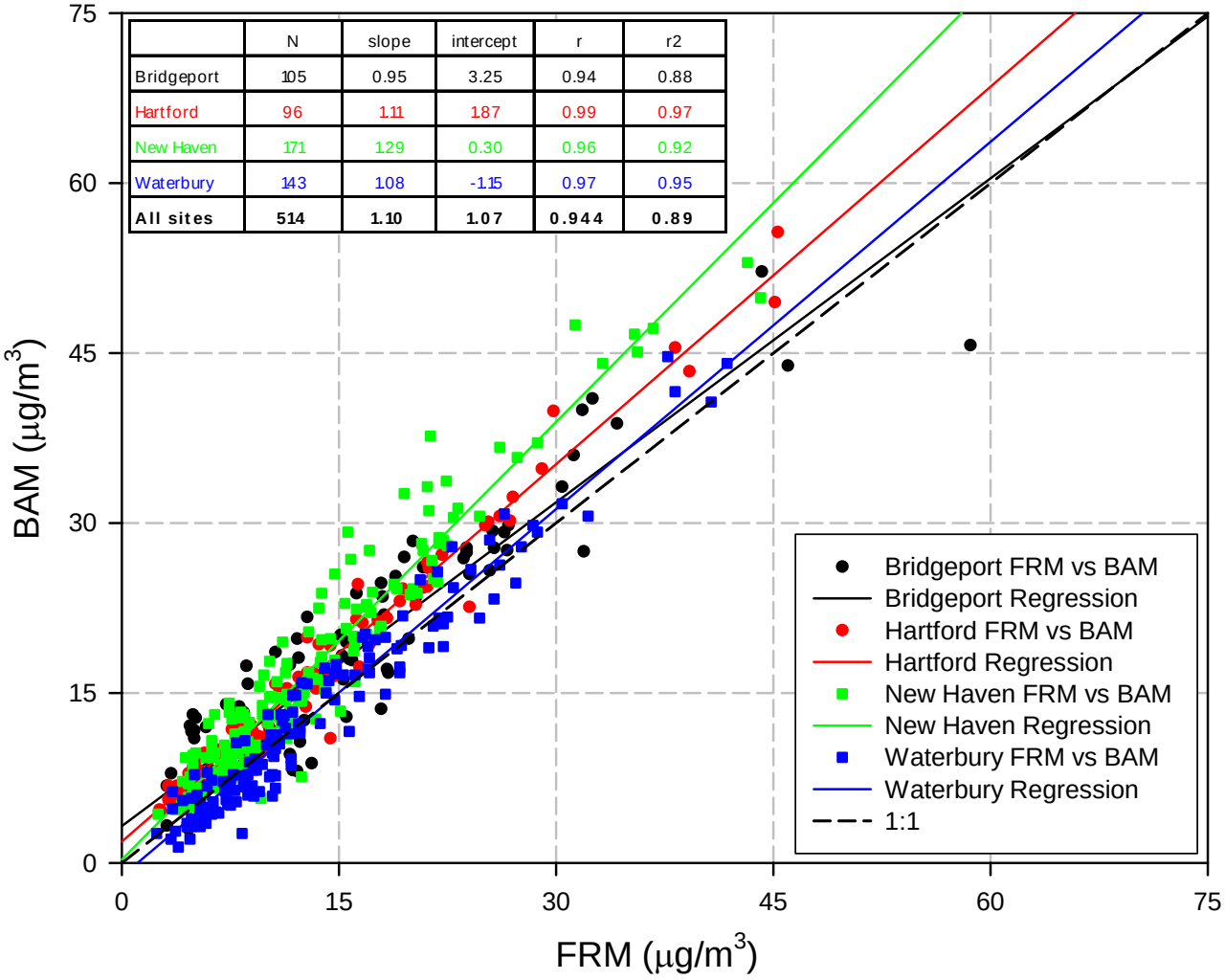
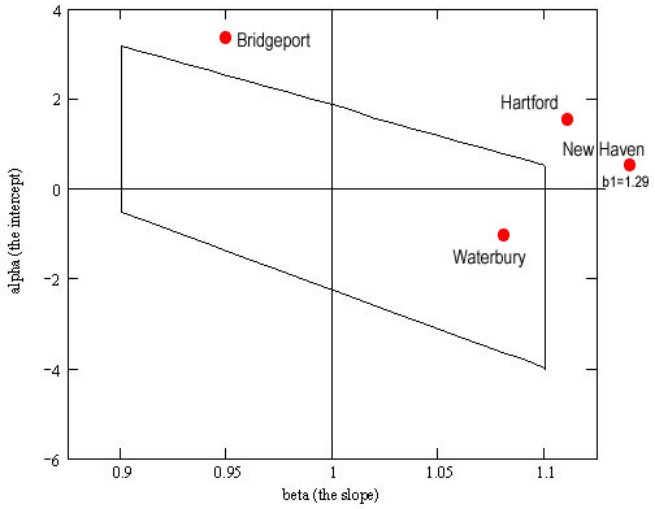
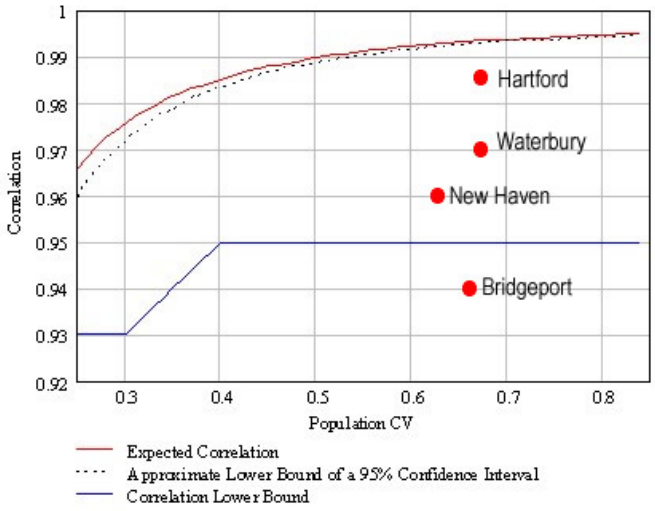
Connecticut FRM vs BAM 24hr $PM_{2.5}$ Averages

4 sites; June 2003 through September 2004

	N	slope	intercept	r	r2
Bridgeport	105	0.95	3.25	0.94	0.88
Hartford	96	1.11	1.87	0.99	0.97
New Haven	171	1.29	0.30	0.96	0.92
Waterbury	143	1.08	-1.15	0.97	0.95
All sites	**514**	**1.10**	**1.07**	**0.944**	**0.89**