

# **PAMS Program Update**

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# Outline

- Regulatory Changes Being Considered
- Target List Revisions
- AutoGC Evaluation Update
- New Data Validation/Analysis Tool
- Training Opportunities

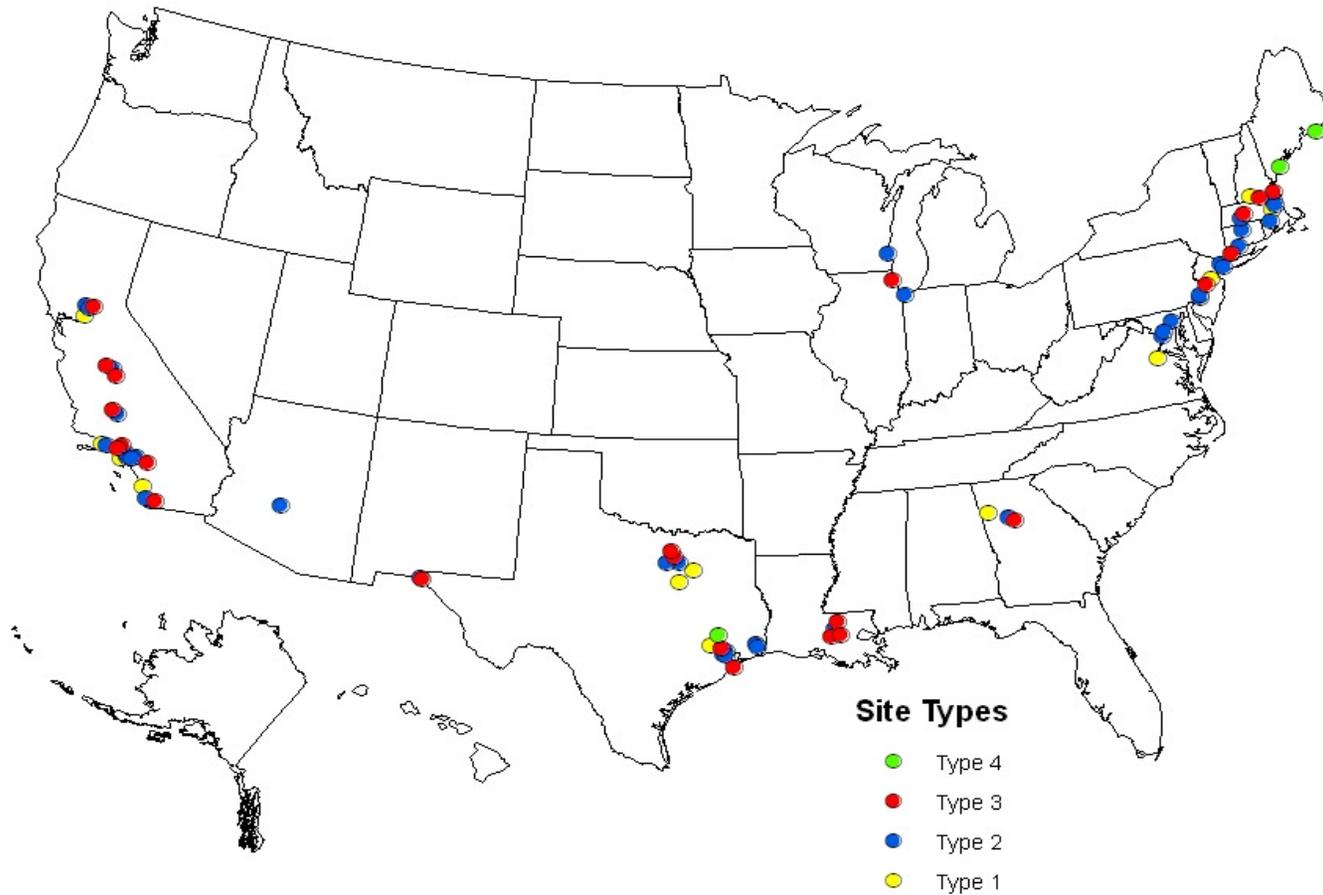


# Regulatory Revisions Being Considered

- Reduce number of required sites to 1 per area but expand PAMS applicability to all O<sub>3</sub> non-attainment areas
  - Require PAMS at NCore sites in O<sub>3</sub> non-attainment areas but allow for Regional approval of alternative site (e.g., existing type 2 PAMS sites)
  - Require sites to collect hourly VOC data
  - Require sites to collect carbonyls (formaldehyde, etc.)
  - Require sites to measure “true NO<sub>2</sub>” in addition to current NO<sub>y</sub>
  - Change requirement for upper air meteorology to requirement for measuring mixing height
- Require all O<sub>3</sub> NA areas to also develop and implement an “enhanced ozone monitoring plan”
  - Could include additional O<sub>3</sub> sites, PAMS sites, radar profilers, mobile sites, etc.

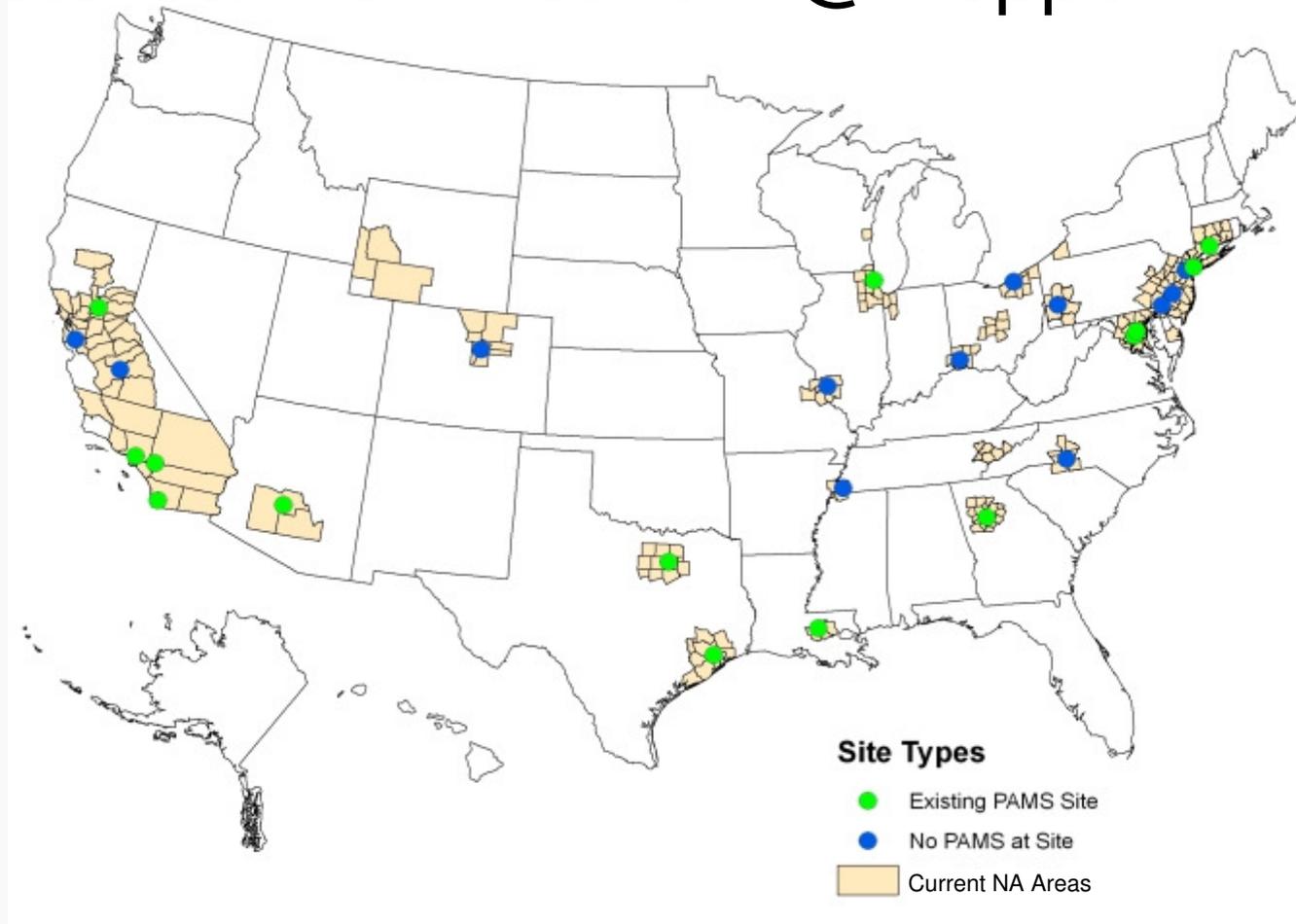


# Current PAMS Network





# Potential New Network @ 75ppb NAAQS





## Estimated Impact of Level of Ozone NAAQS on Size of Required Network

Potential NAAQS Level (ppb)	Number of Sites (existing)
75	27 (14)
70	48 (16)
65	66 (17)
60	71 (17)



# Timing and other Logistical Considerations

- Any proposed PAMS regulatory changes would be included as part of the ozone NAAQS proposal which is expected to be signed in December
- Final regulatory changes would be part of the final NAAQS package expected to be signed in October 2015
- We are considering a staggered deployment to allow time for monitoring agencies to buy equipment (autoGCs, true NO<sub>2</sub> analyzers, and ceilometers) and to train staff and develop SOPs and QAPPs
- October 2017 earliest anyone would likely need to comply





## Revisions to Target List

- The specific VOC compounds to be measured at PAMS sites (“the Target list”) was revised in November 2013
  - <http://www.epa.gov/ttn/amtic/files/ambient/pams/targetlist.pdf>
- Target list split into two groups – 28 priority and 29 optional compounds
- Six new compounds are being considered for addition to the priority compound list
  - $\alpha/\beta$  Pinene
  - 1,3 Butadiene
  - Benzaldehyde
  - Carbon Tetrachloride
  - Ethanol
  - Tetrachloroethylene



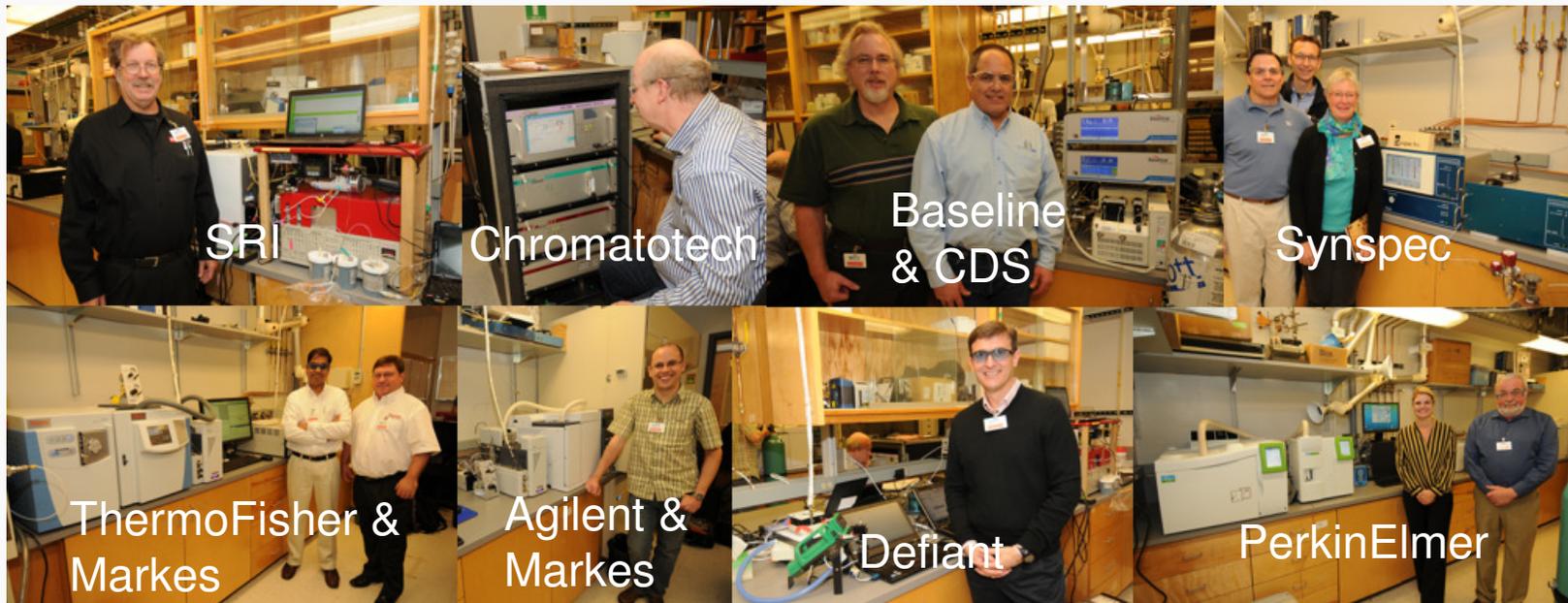


# AutoGC Evaluation Update

- EPA is conducting an evaluation of current autoGC technology
- Laboratory phase conducted during April
  - 8 autoGC systems were included
  - Systems were challenged with various concentrations of PAMS target compounds at differing temperatures and relative humidities
- Field phase will start this fall and run through next fall
  - 6 autoGC systems will be included
  - A mobile lab will be equipped and 1-month evaluations will be conducted at up to 4 locations - Research Triangle Park, Baton Rouge, Los Angeles, and New York
  - We plan to conduct training on the systems for the host state and nearby states at each location



# Thank You to Our Participants!





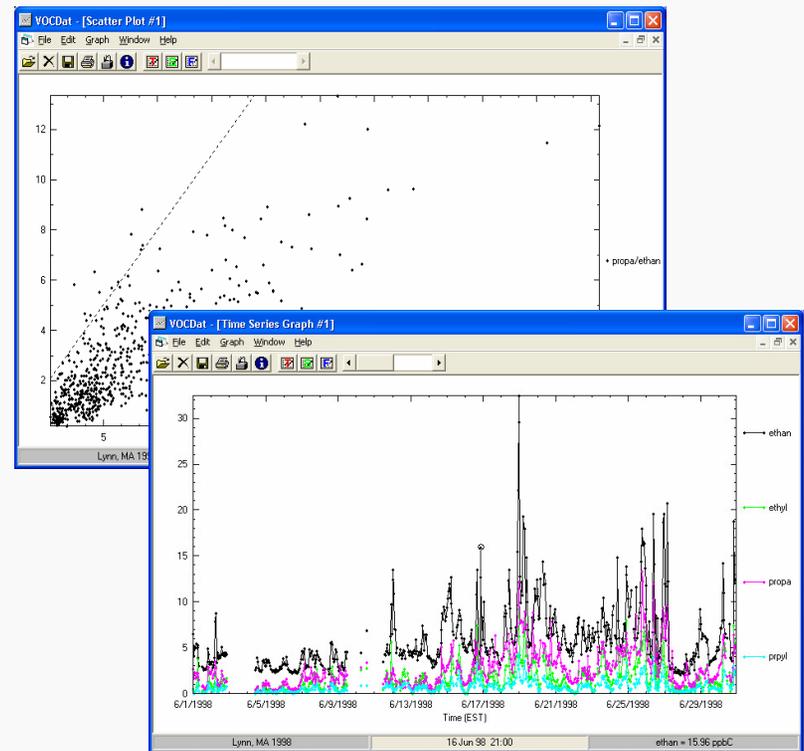
# Day 6 of AutoGC Evaluation





# New Data Validation/Analysis Tool

- EPA and Sonoma are updating the old VOCDat data analysis program
- New program is a web based app that will work with more than just VOC data (criteria pollutants, speciation data, toxics)
- App will be accessible through AirNowTech
- App is being designed primarily with monitoring agencies in mind, but will also be useful to data users.
- Functions include -
  - Prepare data for submittal to AQS
  - Various data analysis and validation tools
  - Pull data from AQS





## VOCWhat?

- We decided we needed a new name since the new web app will work with more than VOC data
- Some candidates include ---
  - Aeris
  - ADAPT (Air Data Analysis Program Tool)
  - ATAQDat (Analysis Tool for Air Quality Data)
  - MyDat or MyData



## Training Opportunities

- We plan to hold autoGC training on at each of the four field study locations (RTP, LA, NY, and CA)
- We will be holding online training on the new VOCDData
- Keep an eye out for announcements on our listserv

