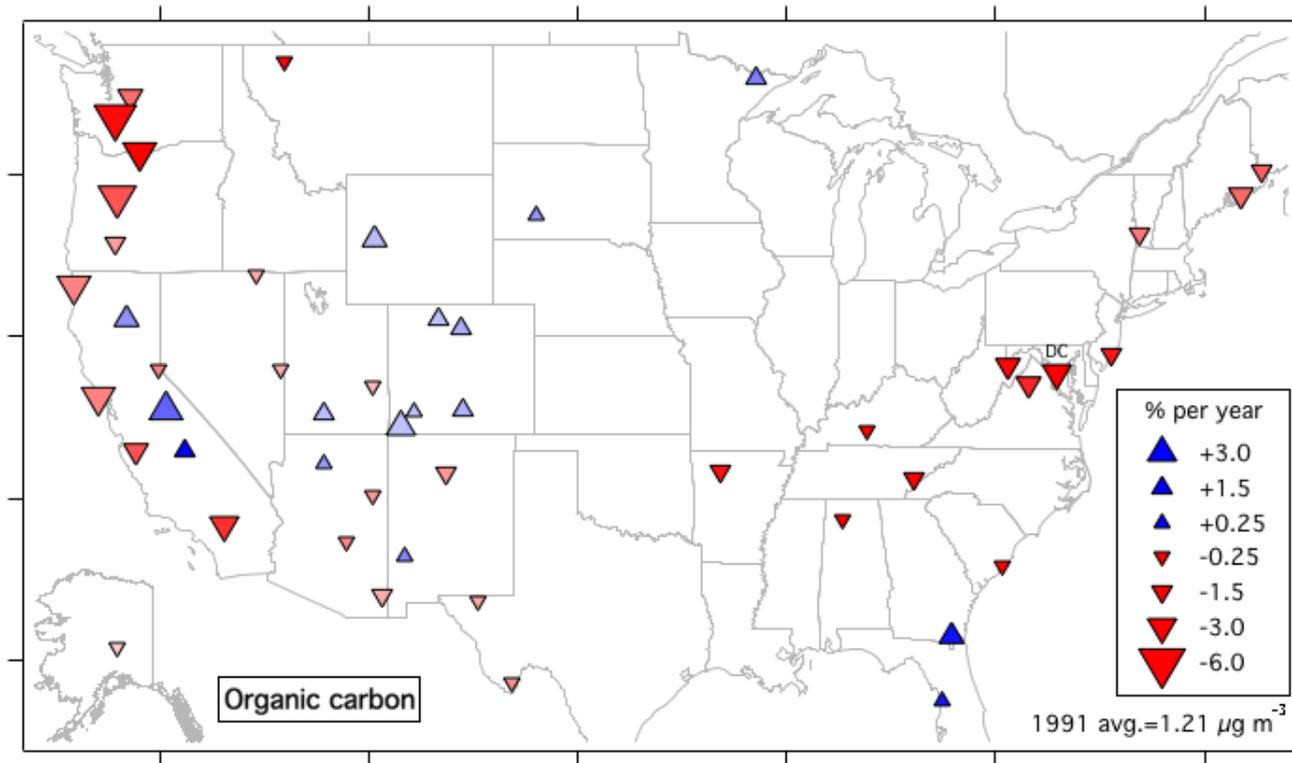
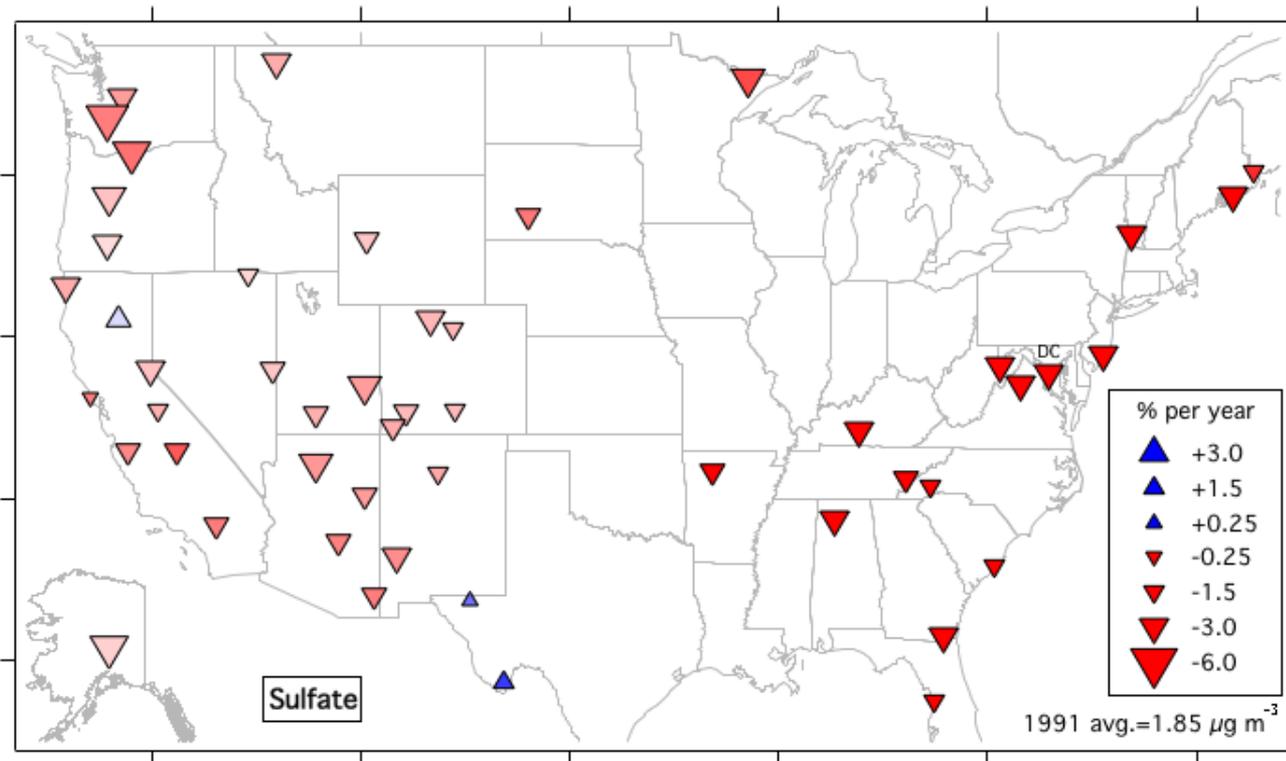


OC 1990-2004



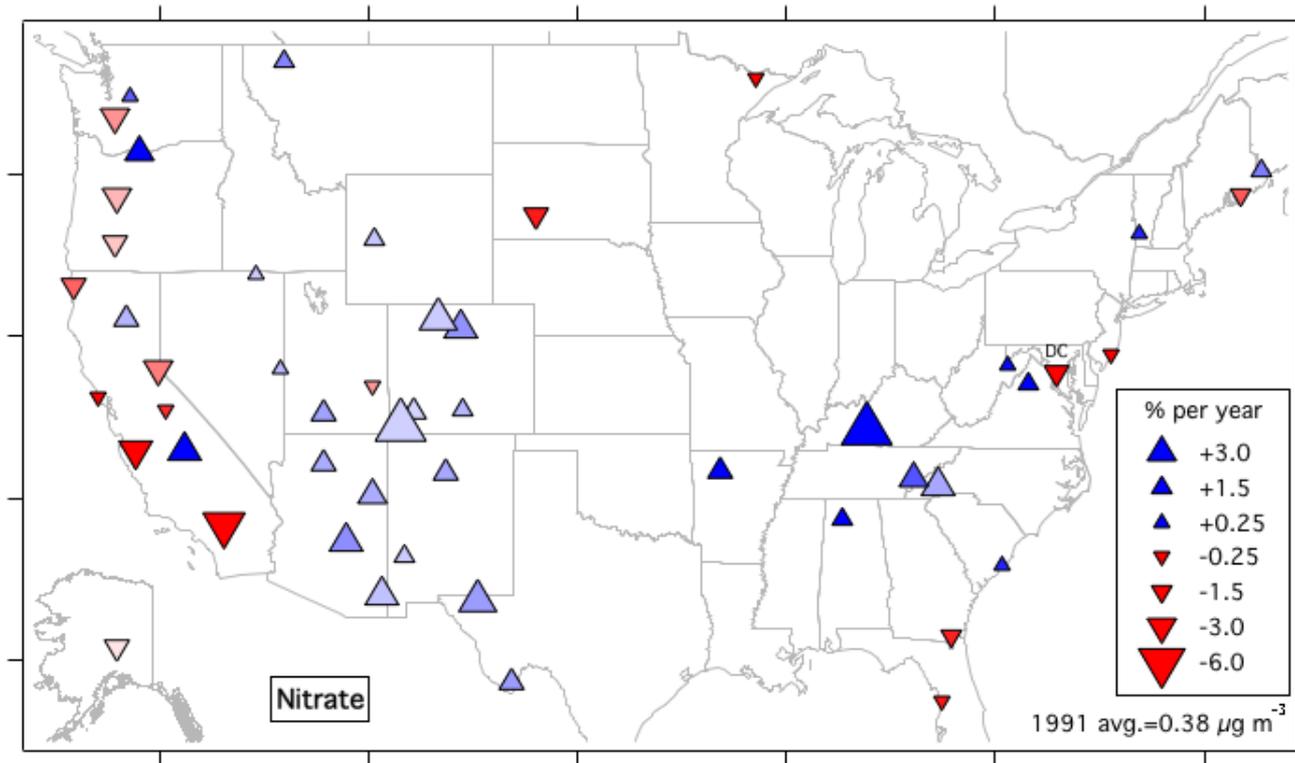
Probably seeing fire influence in mountain west
Large decreases in Pacific NW: why?

Sulfate 1990-2004



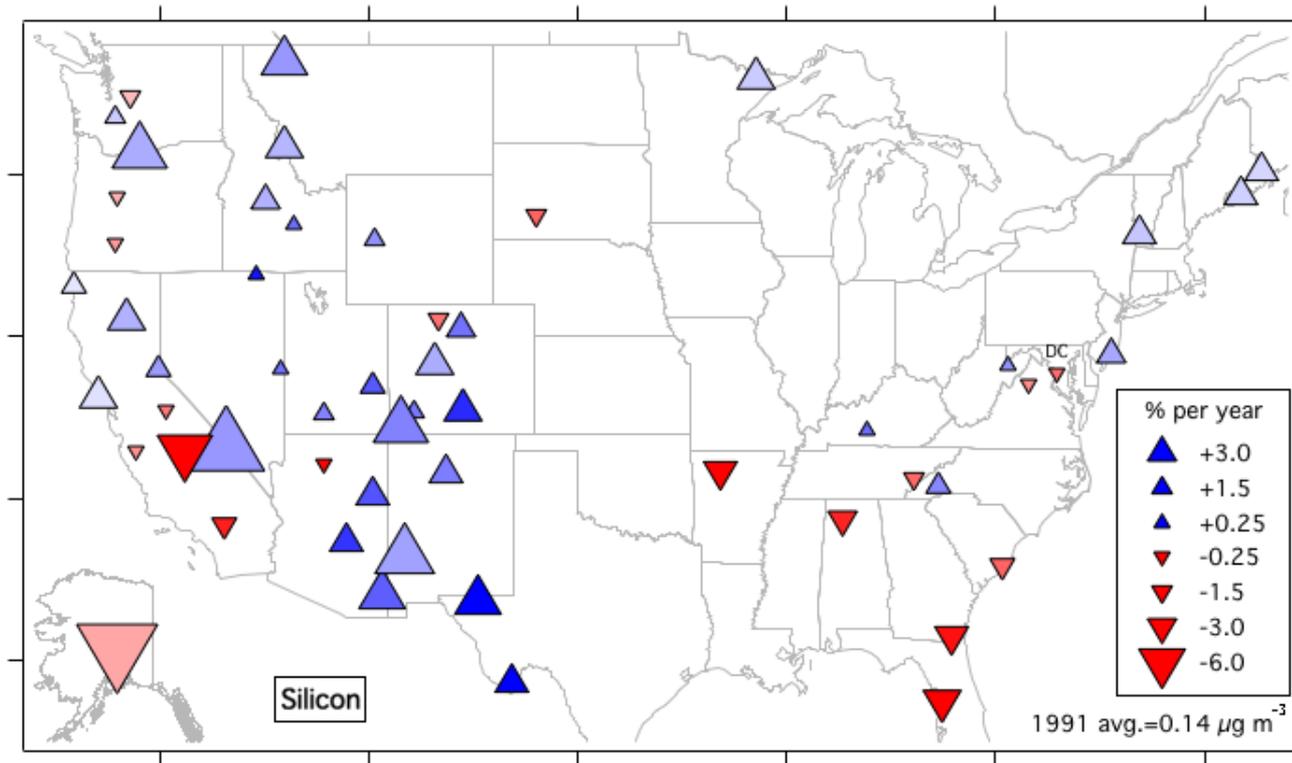
Is being controlled...

Nitrate 1990-2004



As sulfate goes down and agriculture increases, nitrate is the future
Harder to measure – good group to discuss trends
Southern California controls

Silicon 1990-2004

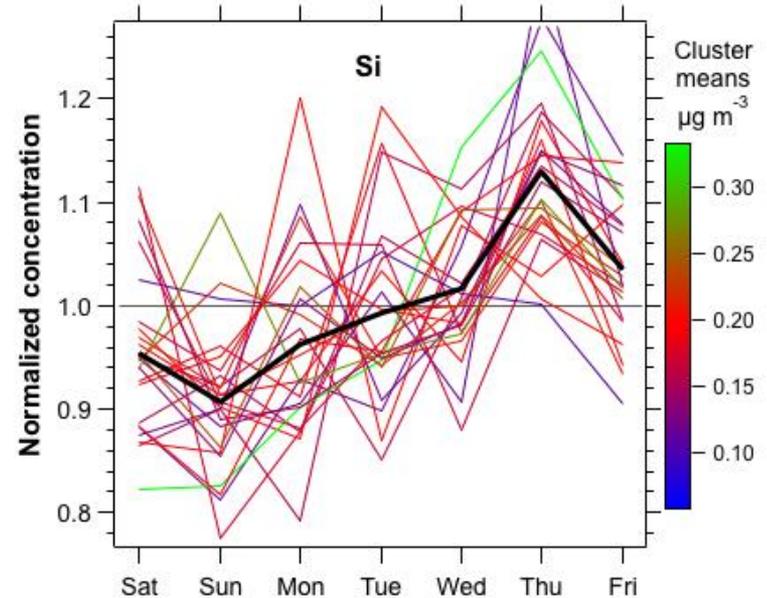
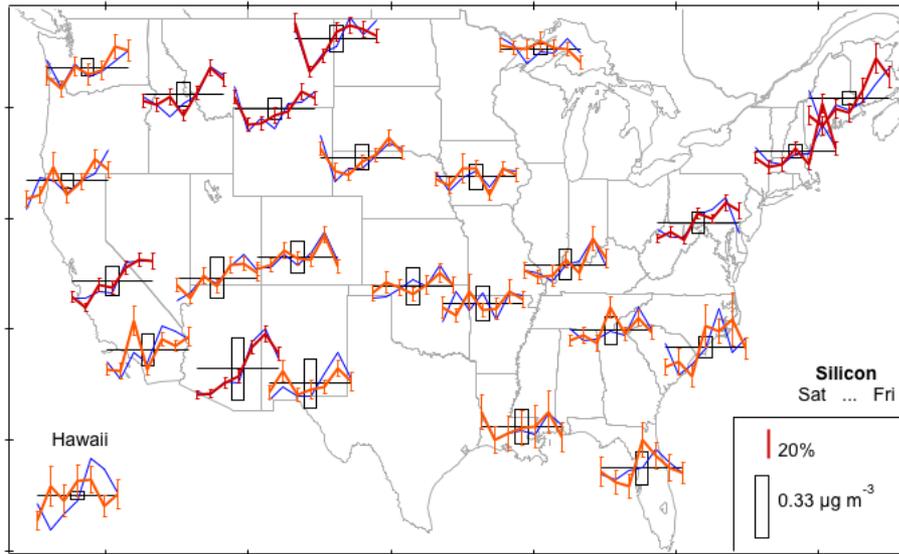


Other crustal elements show similar patterns

Some issues with sampler spot size, techniques (Warren comment)

- but trends are so large Dan guesses they are robust

Silicon weekly cycle



Silicon, other crustal elements show very strong weekly cycle
as strong as BC where we know heavy diesel emissions change by up to x10 weekday-weekends

⇒ **Much mineral dust is *anthropogenic* (and increasing!)**

Construction? Traffic on dirt roads? Corporate farming??