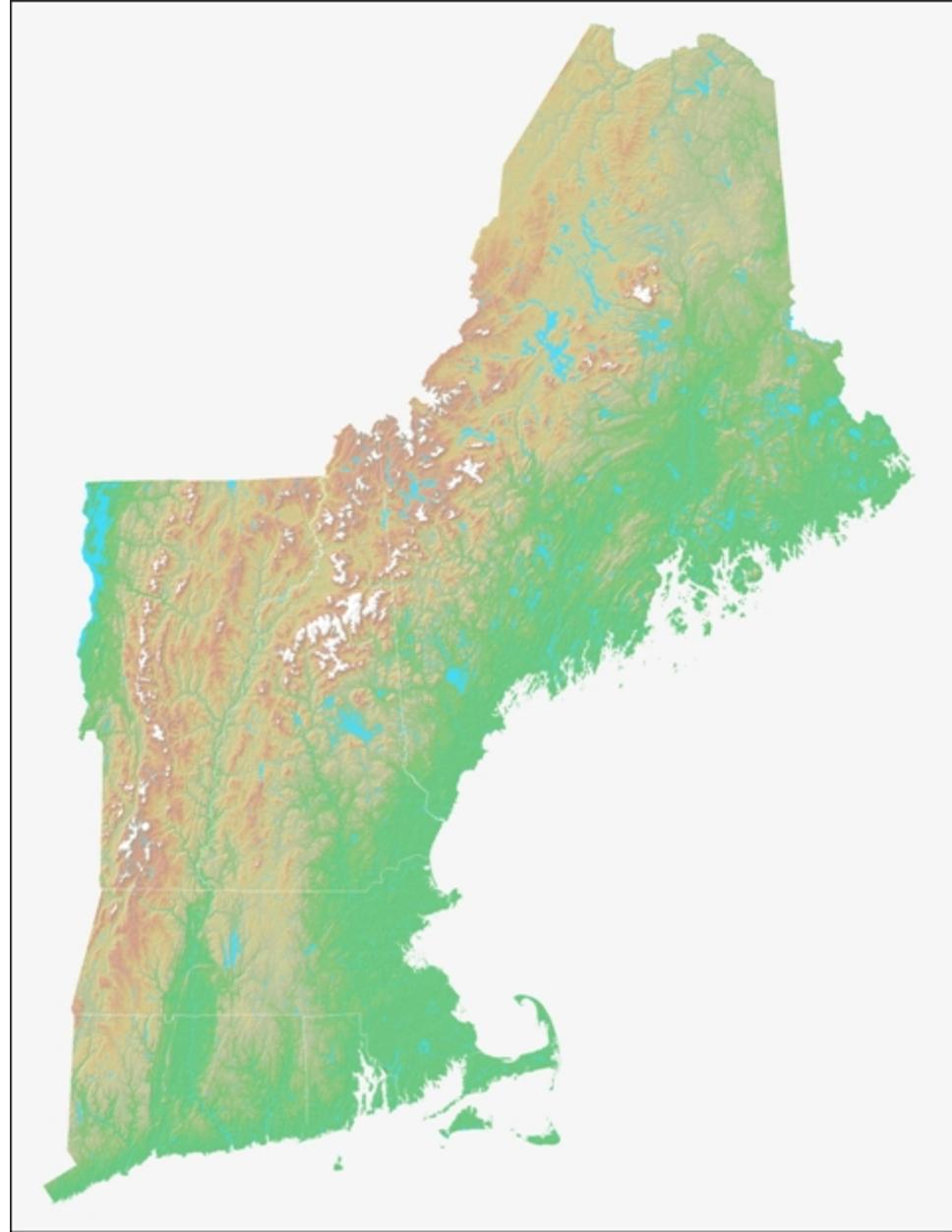
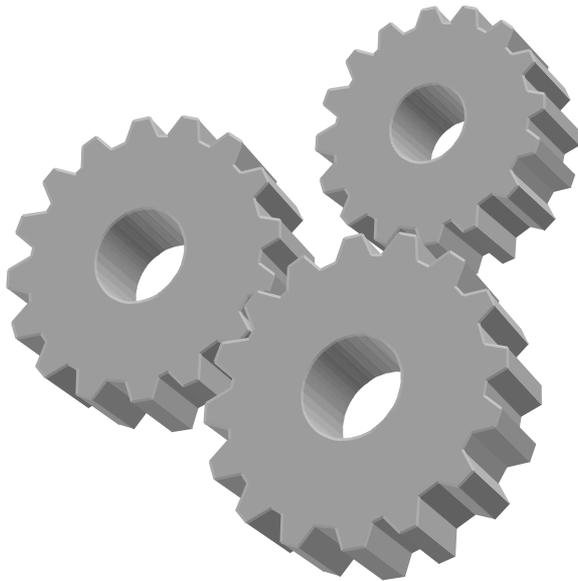


NCore in EPA- New England

Lessons learned..
So far...



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NCore

- Timely reporting of data to public by supporting AIRNow, air quality forecasting, and other public reporting mechanisms;
- Support for development of emission strategies through air quality model evaluation and other observational methods;
- Accountability of emission strategy progress through tracking long-term trends of criteria and non-criteria pollutants and their precursors;
- Support for long-term health assessments that contribute to ongoing reviews of the NAAQS;
- Compliance through establishing nonattainment/attainment areas through comparison with the NAAQS;
- Support to scientific studies ranging across technological, health, and atmospheric process disciplines; and
- Support to ecosystem assessments recognizing that national air quality networks benefit ecosystem assessments and, in turn, benefit from data specifically designed to address ecosystem analyses.

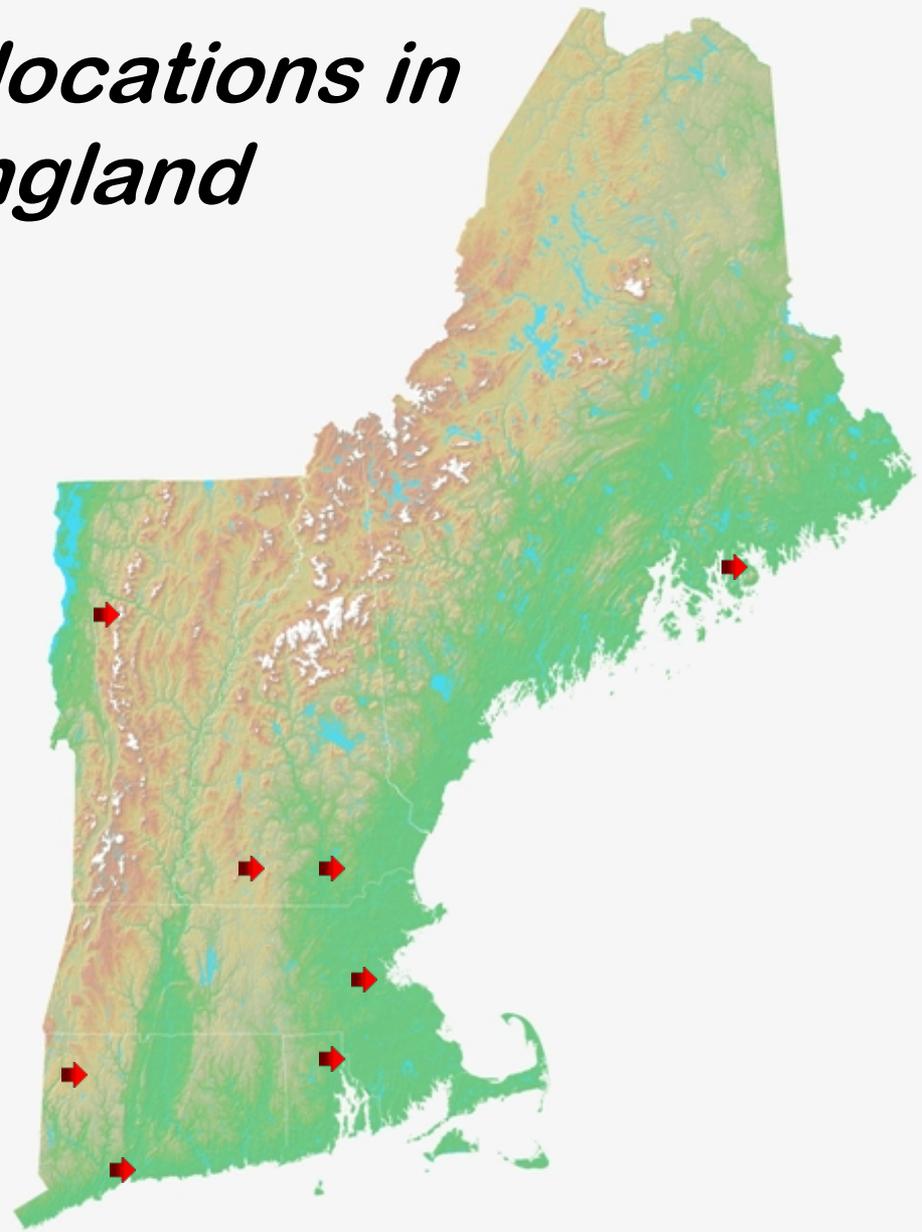
Measurements:

- **PM2.5 speciation** -Organic and elemental carbon, major ions and trace metals (24 hour average; every 3rd day)
- **PM2.5 FRM mass** -typically 24 hr. average every 3rd day
- **continuous PM2.5 mass** - 1-hour reporting interval for all cont. species
- **continuous PM(10-2.5) mass** -in anticipation of PM(10-2.5) standard
- **ozone (O3)**
- **carbon monoxide (CO)** -capable of trace levels (low ppm and below)
- **sulfur dioxide (SO2)**- capable of trace levels (low ppb and below)
- **nitrogen oxide (NO)** -capable of trace levels (low ppb and below)
- **total reactive active nitrogen (NOy)** -capable of trace levels (low ppb and below)
- **ammonia (NH3)** -currently under consideration
- **nitric acid (HNO3)** -currently under consideration
- **surface meteorology** -wind speed and direction, temperature, RH



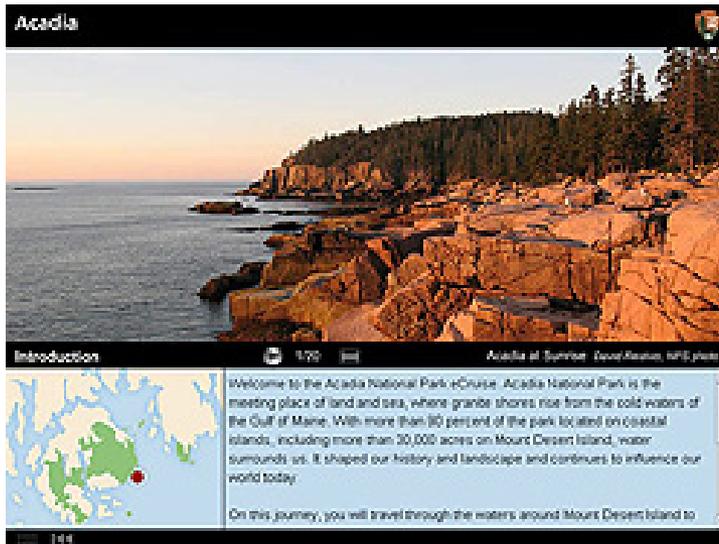
Candidate NCore locations in EPA- New England

- Eight NCore site locations throughout New England
- From urban to rural



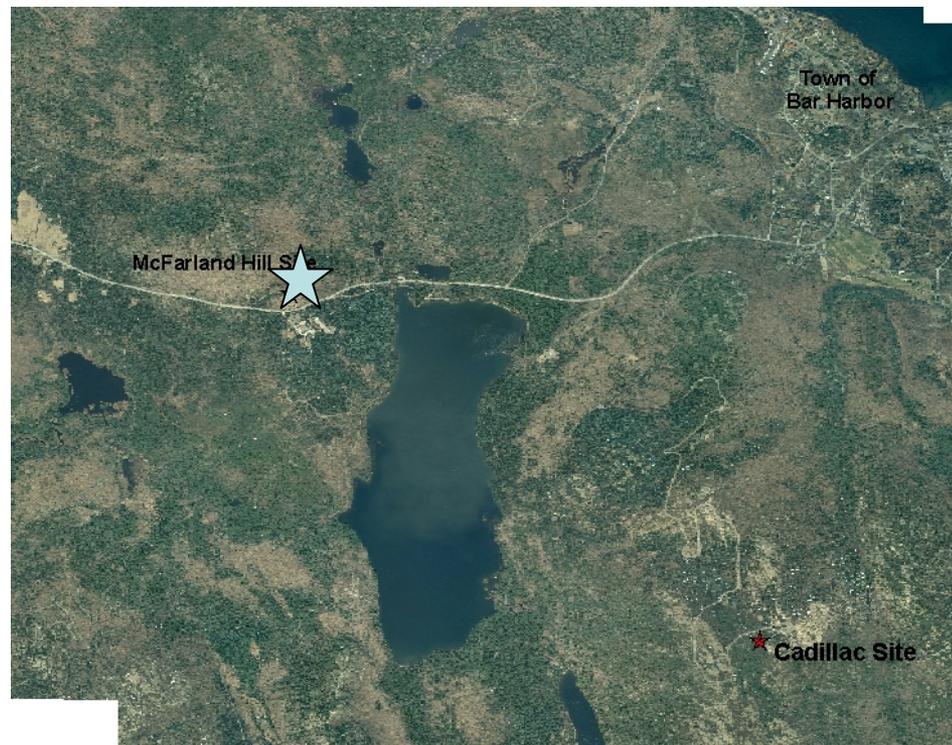
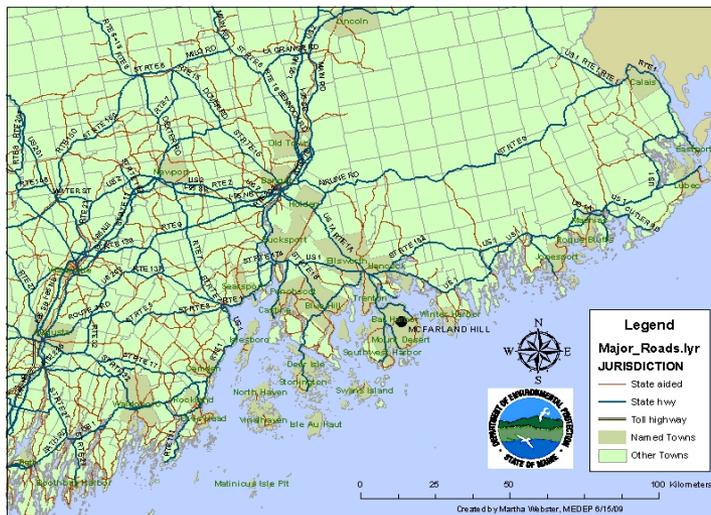
McFarland Hill, Acadia National Park, Maine

- A rural site





Existing monitoring location in Maine – leverage= success





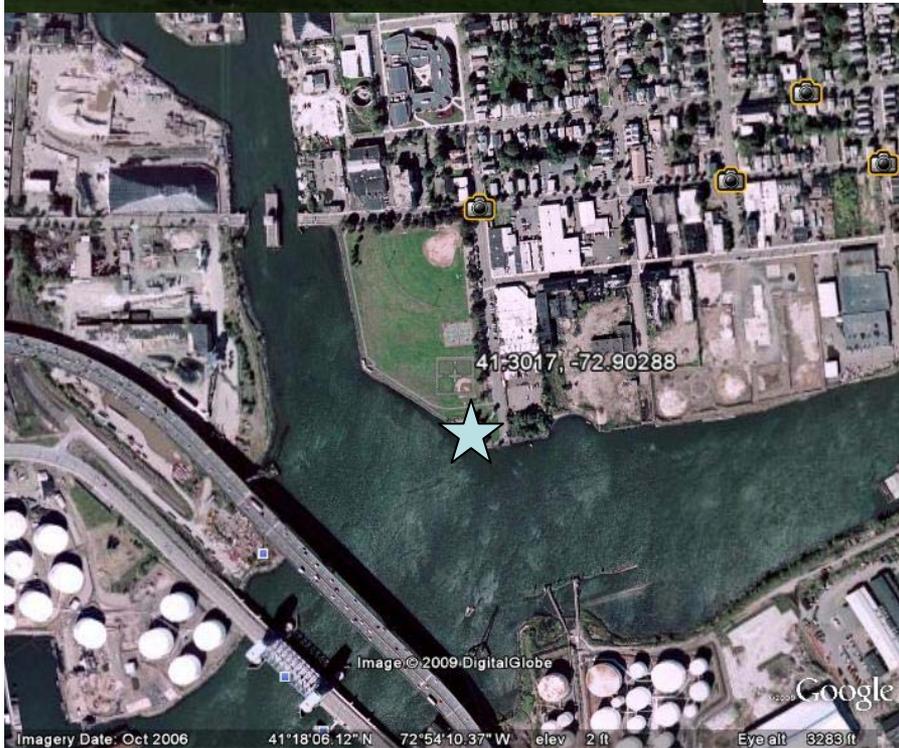
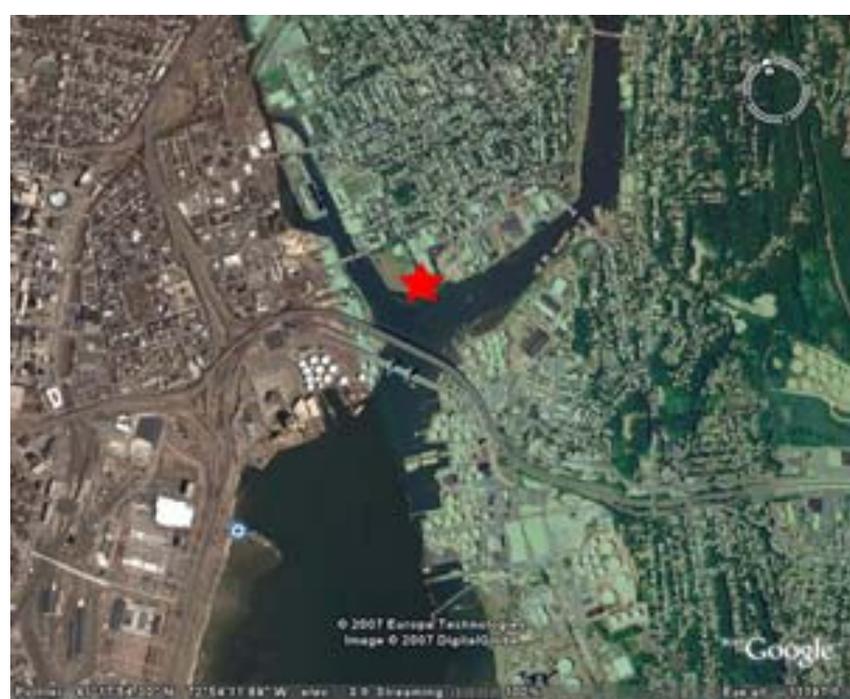
Criscuolo Park, New Haven, CT

- An urban site



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Existing monitoring location in Connecticut-leverage= success

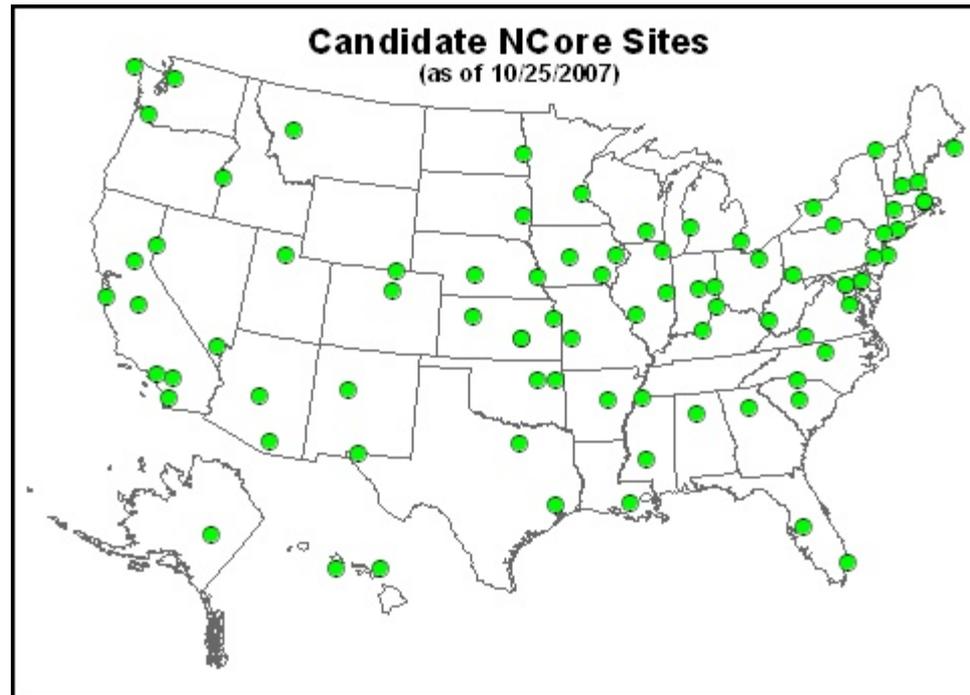


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NCore Network and Sites Information

[http:// www.epa.gov/ttn/amtic/ncore/networks.html](http://www.epa.gov/ttn/amtic/ncore/networks.html)



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Data uses

- **Think about how we will use this data.. because we will have a lots of data....**

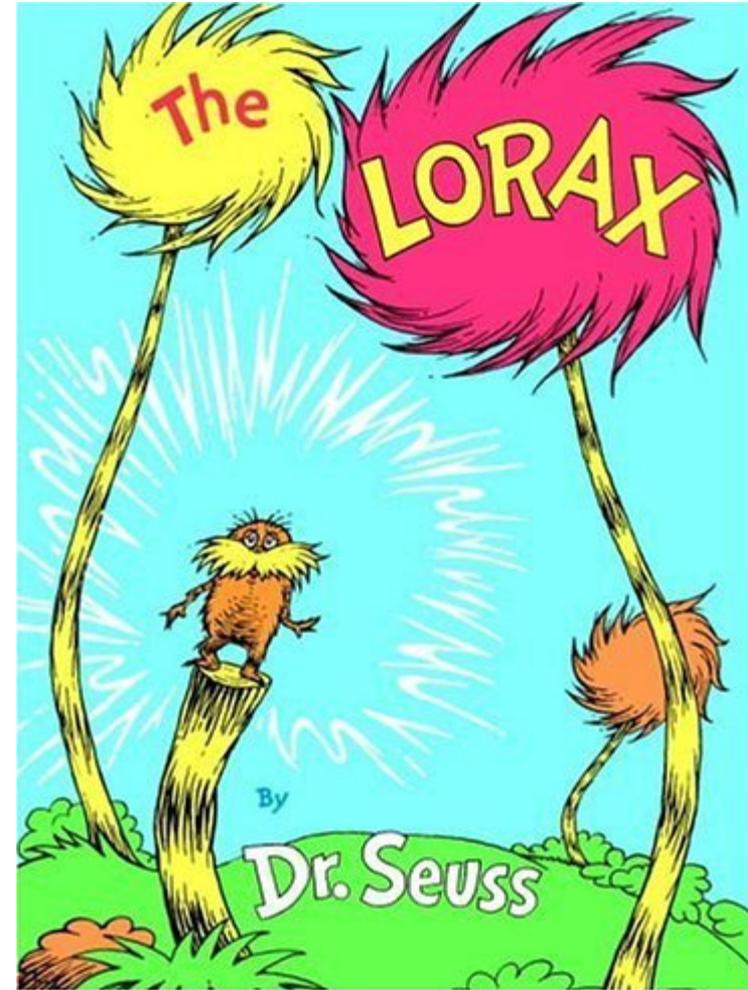


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Our challenge...to help make sense of the data...

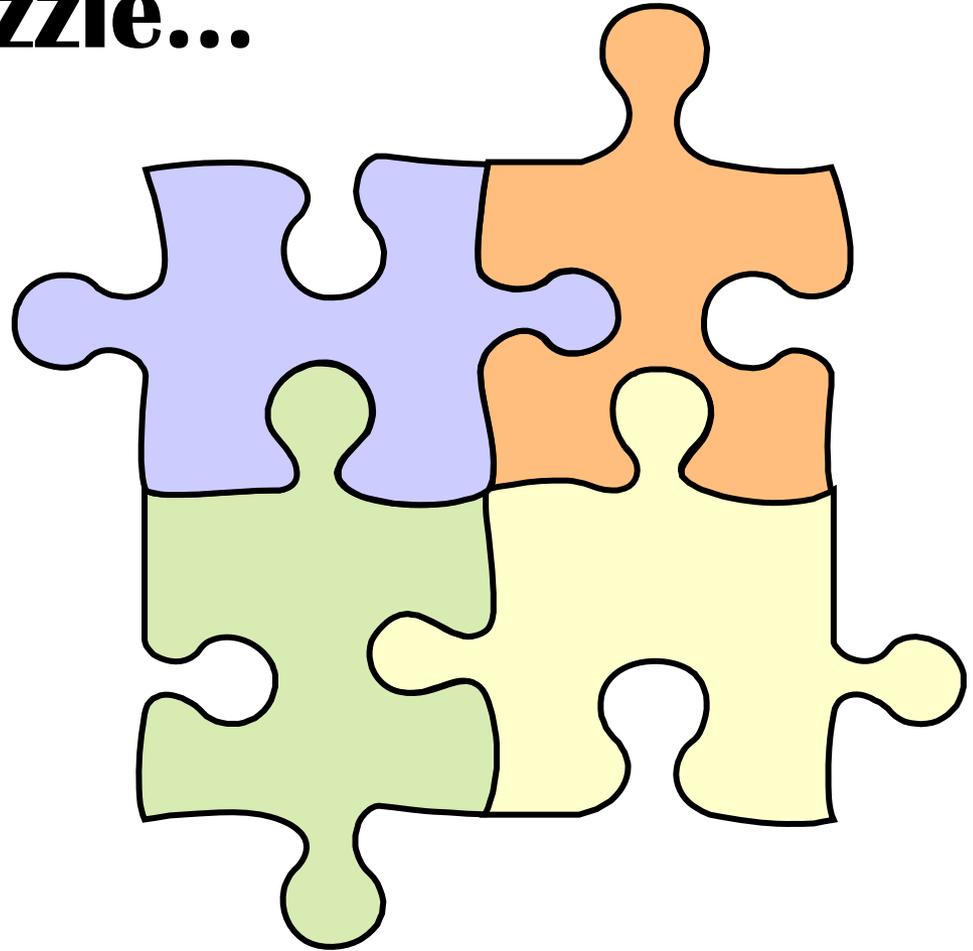
**“Unless someone like you
cares an whole awful lot,
its not going to get better.
It’s not.”**



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Fitting together the pieces of the puzzle...



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Questions..?

Bob Judge

EPA- New England Regional Laboratory

617-918-8387 (ph)

617-918-8287 (fax)

judge.robert@epa.gov



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