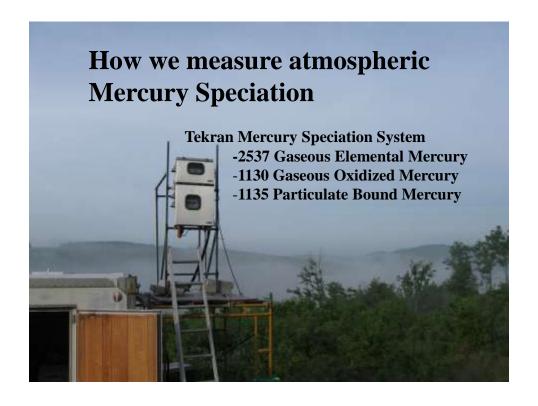


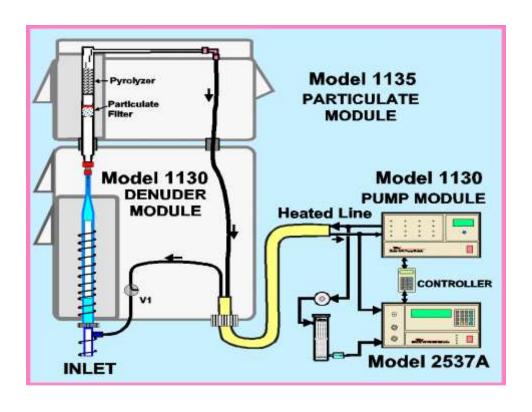
GEM has long residence times in the atmosphere low water solubility

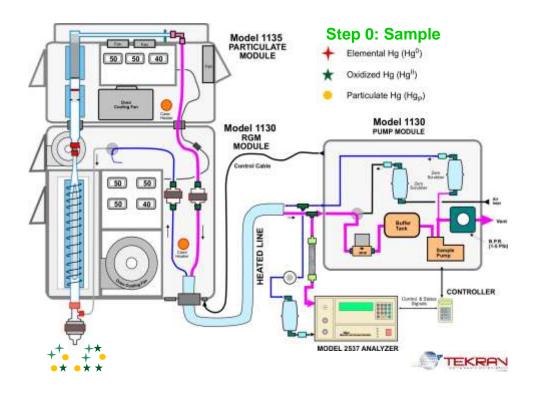
GOM and PBM have short residence times high water solubility

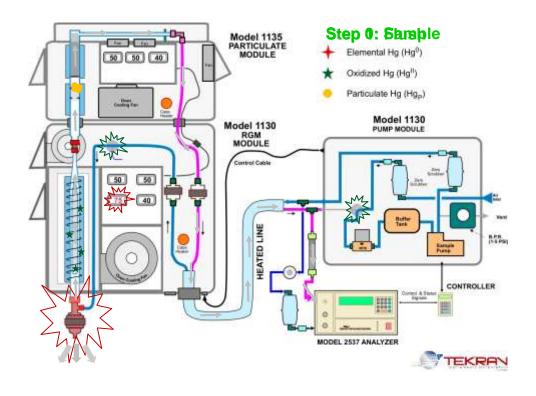
GOM and PBM have larger input to Mercury in rainfall

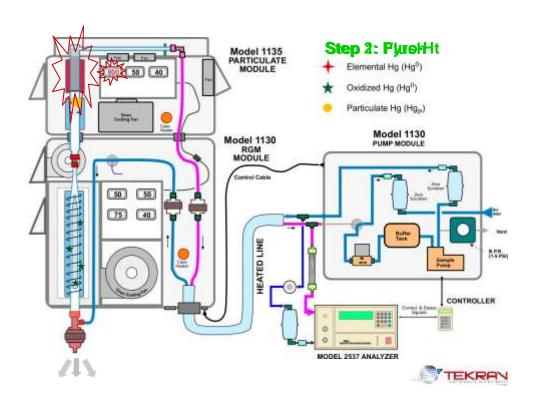
If we can reduce GOM and PBM, we should see reductions in wet deposition concentrations

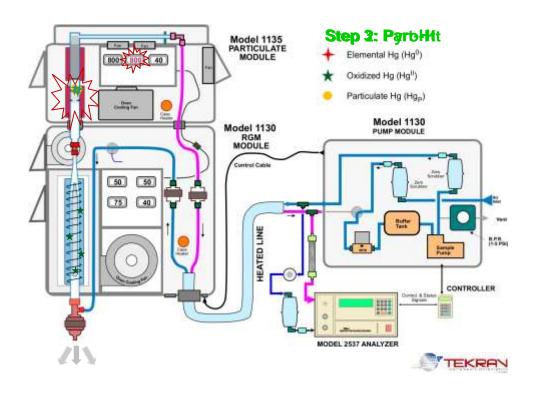


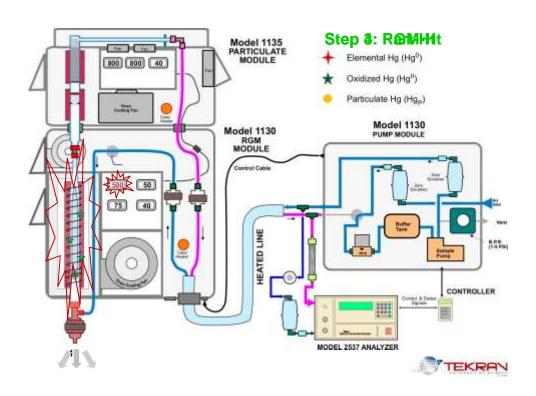


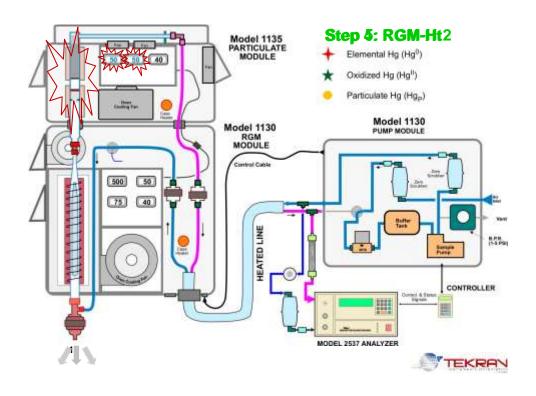


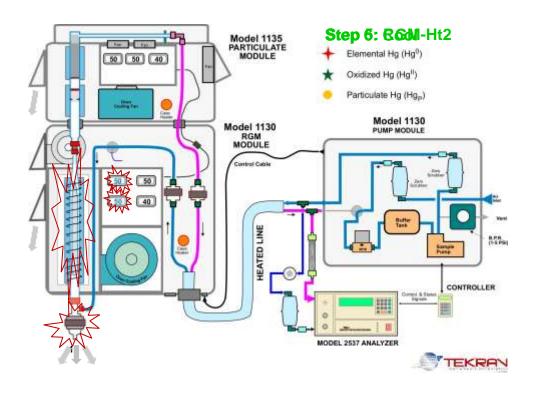


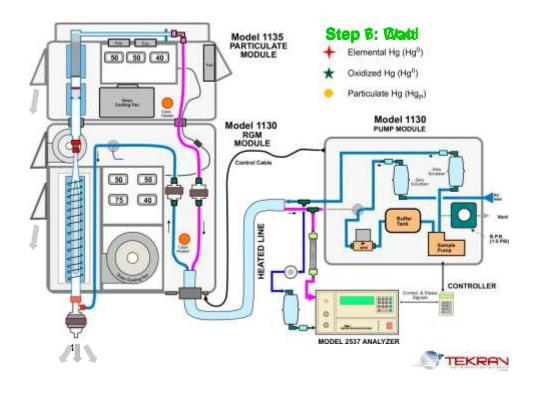


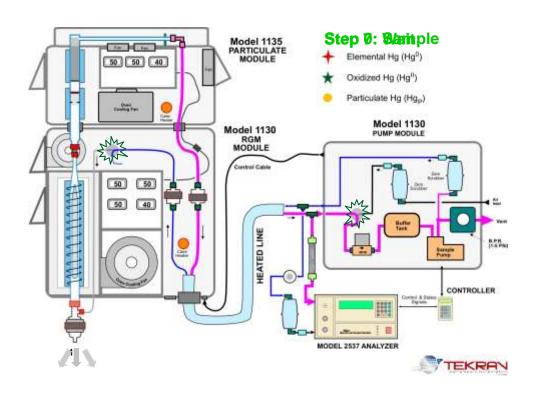


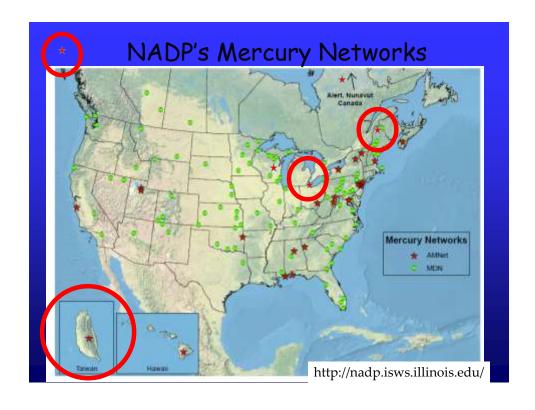














What AMNet Provides

- -SOP's to keep measurements consistent
- -Troubleshooting
 - -Phone and email support
- -Network Equipment Depot
 - -Wide variety of parts available
- -Data evaluation and quality assurance
 - -Automated flag program
 - -Site Liaison evaluates all data
- Site audits to evaluate performance

AMNet Quality Assurance Overview

- Field Operations SOP
 - operation, reporting, etc.
 - weekly/monthly/quarterly maintenance
- Data Management SOP
- Site Survey SOP
 - siting criteria
- Quality Assurance Plan
- Site pictures, information

Available on the NADP Webpage



Automated Quality Assurance

- Upon import of raw data, flags are assigned to each observation
- AMNet currently utilizes 51 Quality Assurance flags, most are automated
 - 23 are warning flags which leave the data valid
 - 26 are control flags which invalidate the data
- Then manual review, with final flag assignment
- Same QA system used by GMOS, developed by AMNet

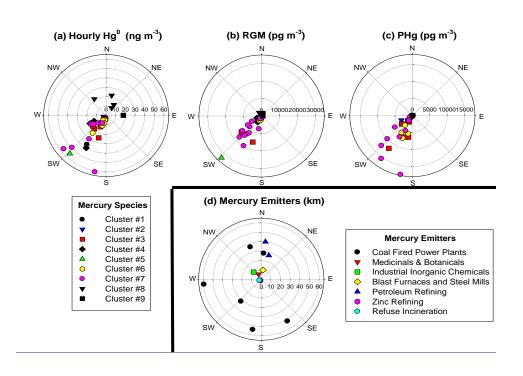
Check

Warning

Control

Data Availability

- 98 site years of data available
 - Only validated data available
 - GEM averaged to hourly, 2-hourly GOM & PBM_{2.5}
- Through December 2013,
 - 291,000 valid observations
 - of GEM, of GOM, and of PBM_{2.1}
 - 2009 current, ongoing
- · Available: http://nadp.isws.illinois.edu



Tekran Mercury Analyzers

Who has heard of Tekran?
Who owns a Tekran?
Does anyone operate a Tekran?

Future Goals APMMN

Open discussion



