

AIRNow and AIRNow-Tech

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Sonoma Technology, Inc.

Air Quality Research and Innovative Solutions

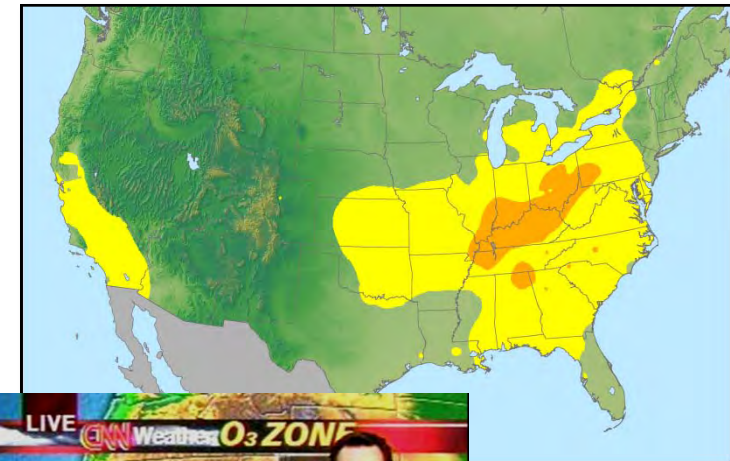
Outline

- Overview of AIRNow
- AIRNow-Tech
 - About
 - Features
 - Case study analysis: Use of AIRNow-Tech during 2008 California wildfires
- Related topics
 - Air Quality Index (AQI)
 - Getting data into AIRNow
 - AIRNow mapping
- AIRNow-Tech Demonstration

Overview of AIRNow

AIRNow provides a common framework for acquiring and distributing air quality information that

- Fosters community effort among tribal, federal, state, and local air quality agencies (130+)
- Collects, quality assures, and transfers real-time and forecasted air quality information to the public
- Communicates air quality via the AQI
- Issues weather/air quality news stories
- Enables partnerships with national media
- Provides air quality education and outreach



Overview of AIRNow

- Program
 - Coordination: 44 tribes, 130+ agencies, and 1,500+ stakeholders
 - Monitoring: 2,000+ sites, 400 forecasts
 - Assistance: 130+ agencies, 30+ media users, 20+ data users
 - Education: Stakeholders
 - Media outreach: print, TV, web outlets, social media
- Systems
 - Centralization: one-stop data source for real-time/forecast data
 - Quality control : automated and manual quality checks
 - AQI conversion: consistency across the nation
 - Mapping: quick and automated mapping methods
 - Distribution: data for public, media, researchers, systems

Overview of AIRNow – AIRNow vs. AQS

	AQS	AIRNow
Data use	Regulatory decisions	Health-based decisions, mapping, education
Timeliness of data	6-12 month delay	Real-time
Historical record	6-12 months prior to 1998	Last hour to 2002*
Data quality	Official data	Preliminary data
Routine mapping	Not available	Hourly on AIRNow.gov
Data access	Data Mart	AIRNow-Tech and AIRNow Gateway
Media distribution	Not available	Hourly (AQI observations and forecasts)

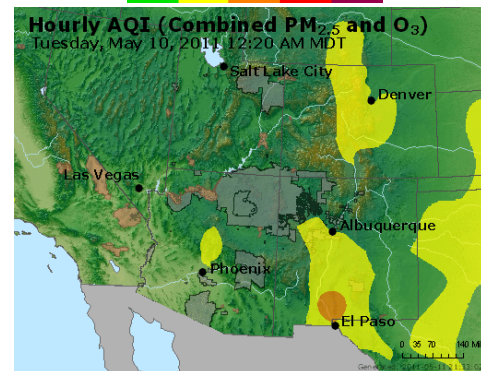
* Data available on AIRNow-Tech back to February 2009

Overview of AIRNow – Purpose

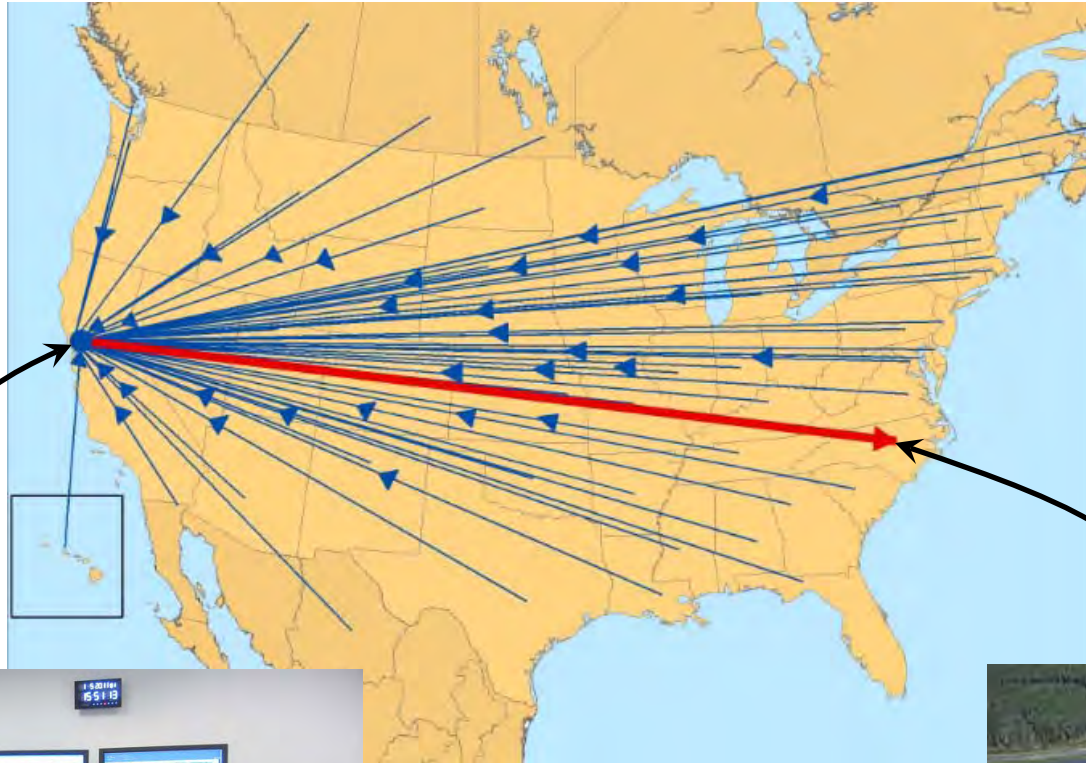
- Data → → → Decision
- Inform the public, media, and decision makers
- Educate and support the voluntary AIRNow community of agencies
- Provide data to other systems



78
54 21
5 33
99 238
32 61



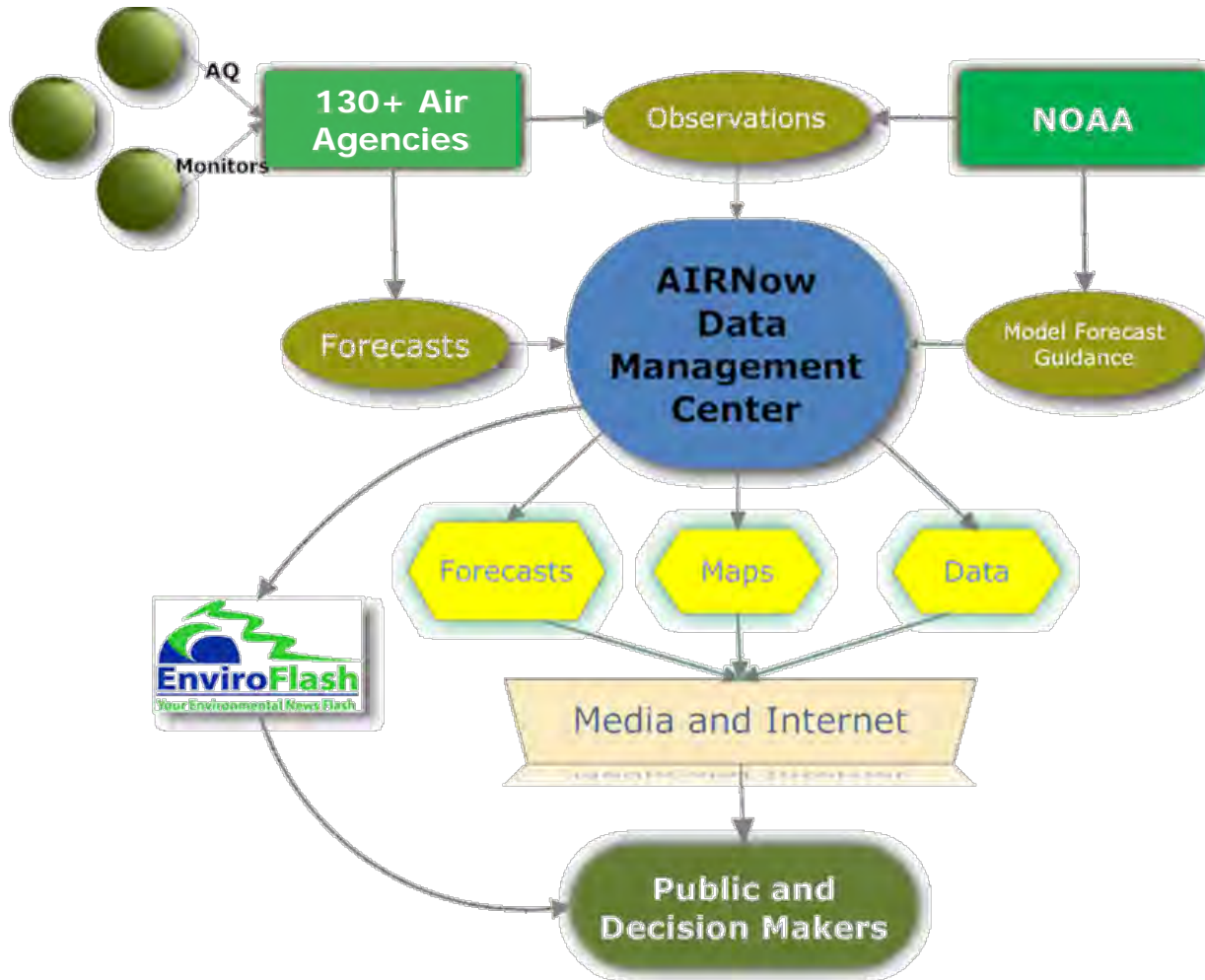
Overview of AIRNow – Community



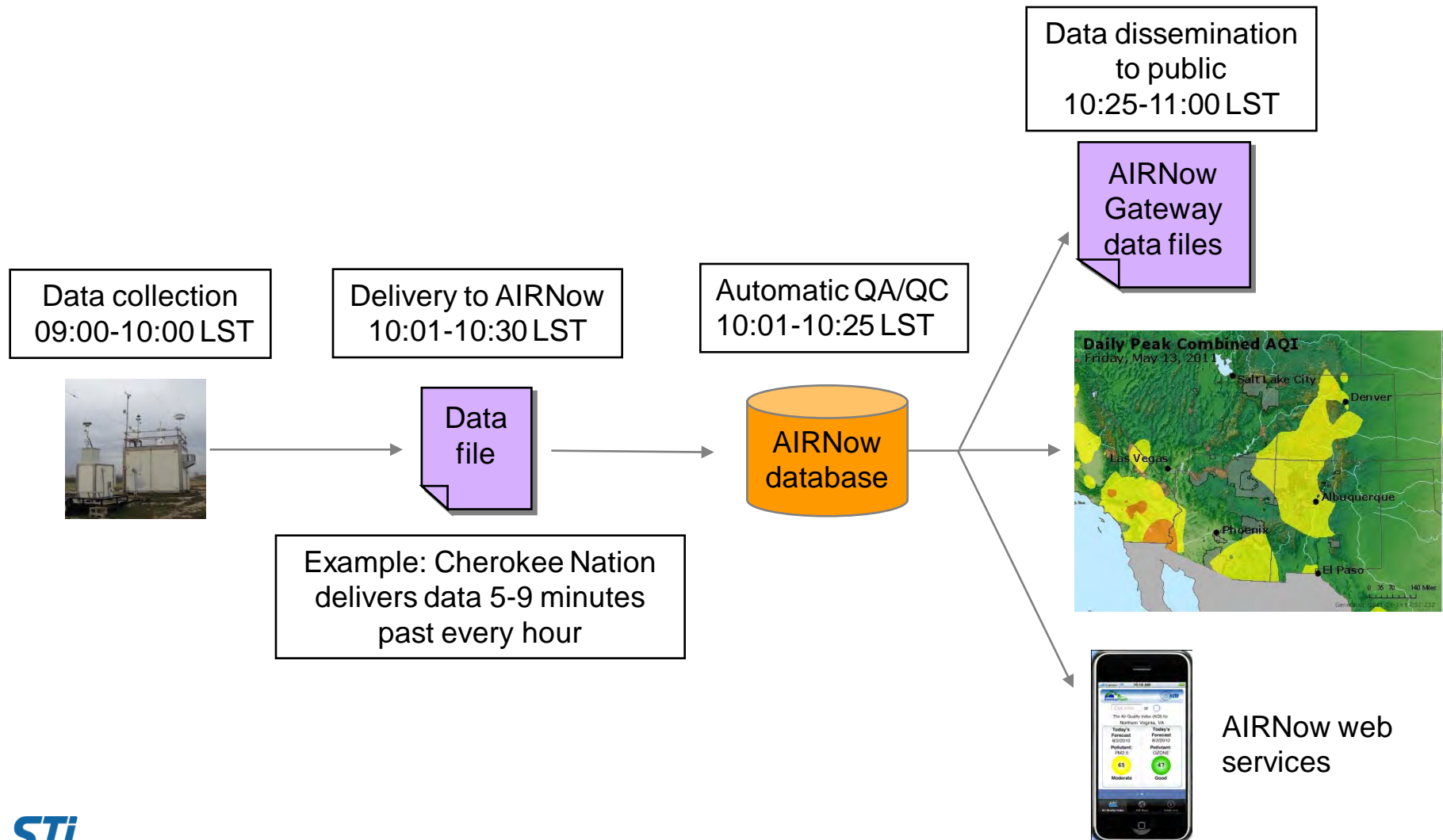
- 130+ tribes and agencies
- 1,500+ stakeholders and users
- 2,000+ monitoring sites
- 400 forecast cities



Overview of AIRNow – Data Flow



Example Monitoring Data Flow



About AIRNow – A Brief History

1997: Beginning (northeast U.S.)

1999–2002: Expanding coverage

Early 2000s: First tribal partner

2003–2009: New services

- » AIRNow-Tech (technical web site)
- » AIRNow Gateway (distribution service)
- » Coordination with media
- » More pollutants

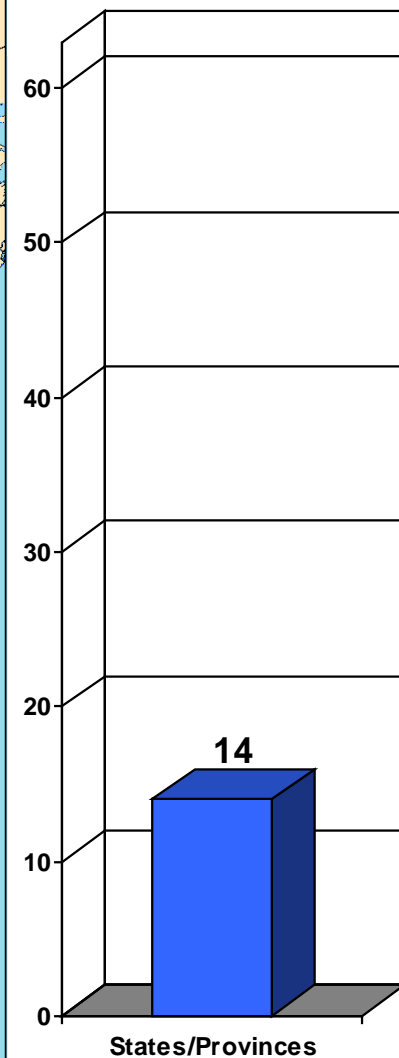
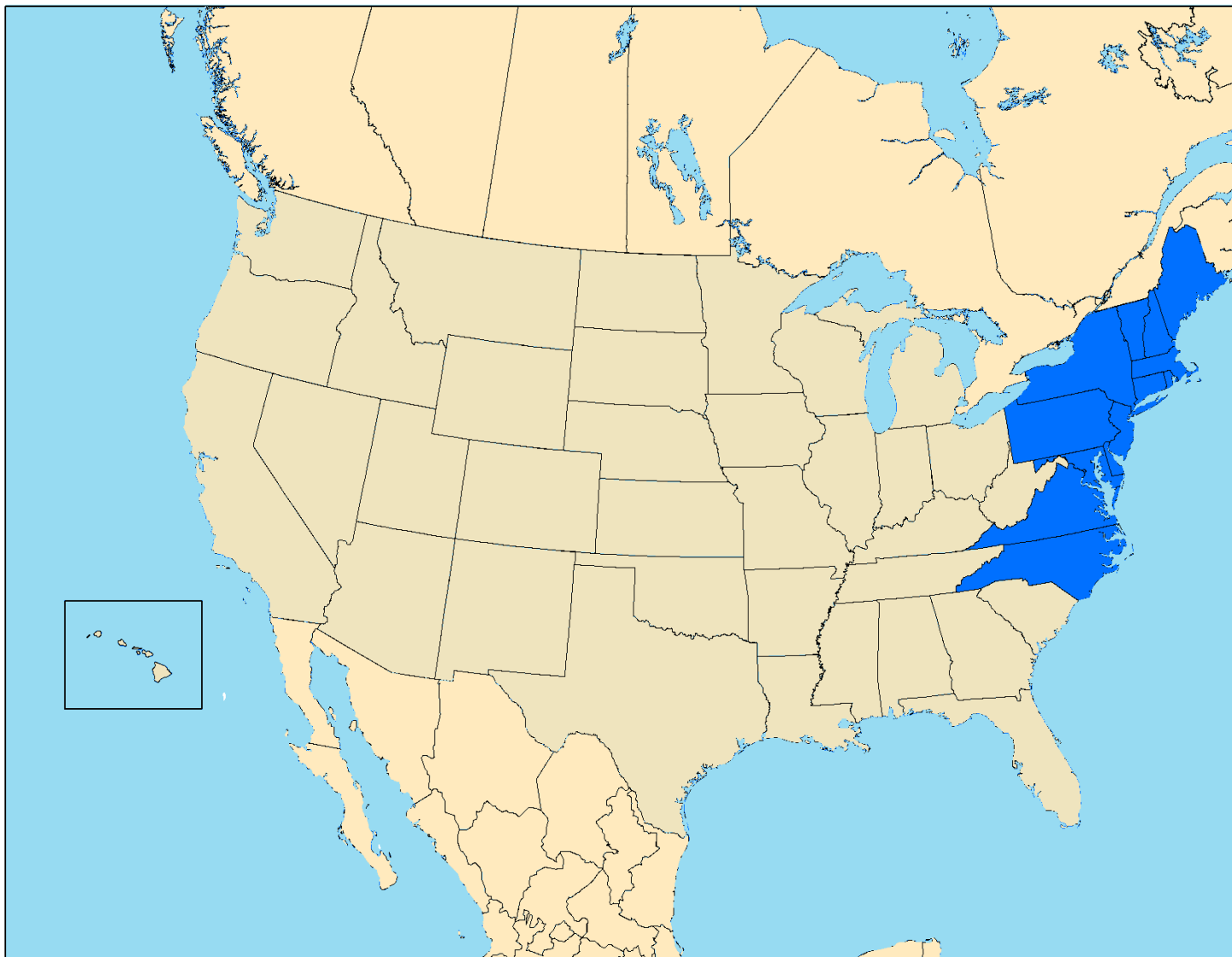
2009+:

AIRNow-International

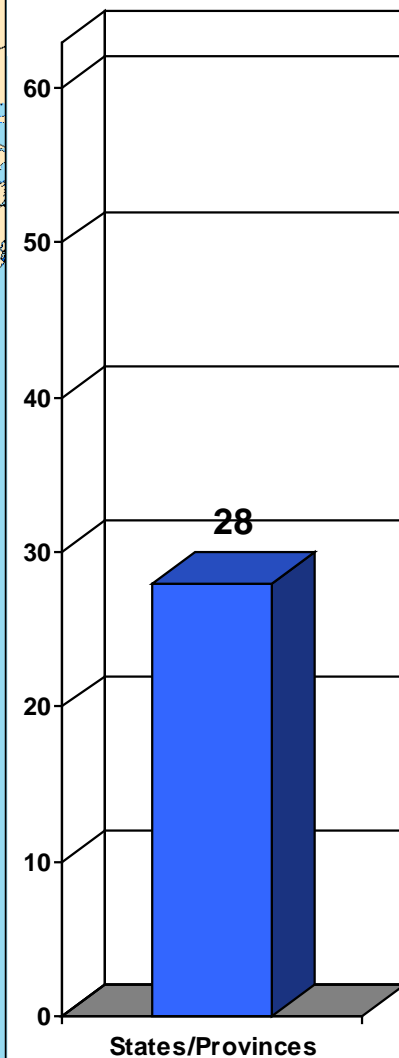
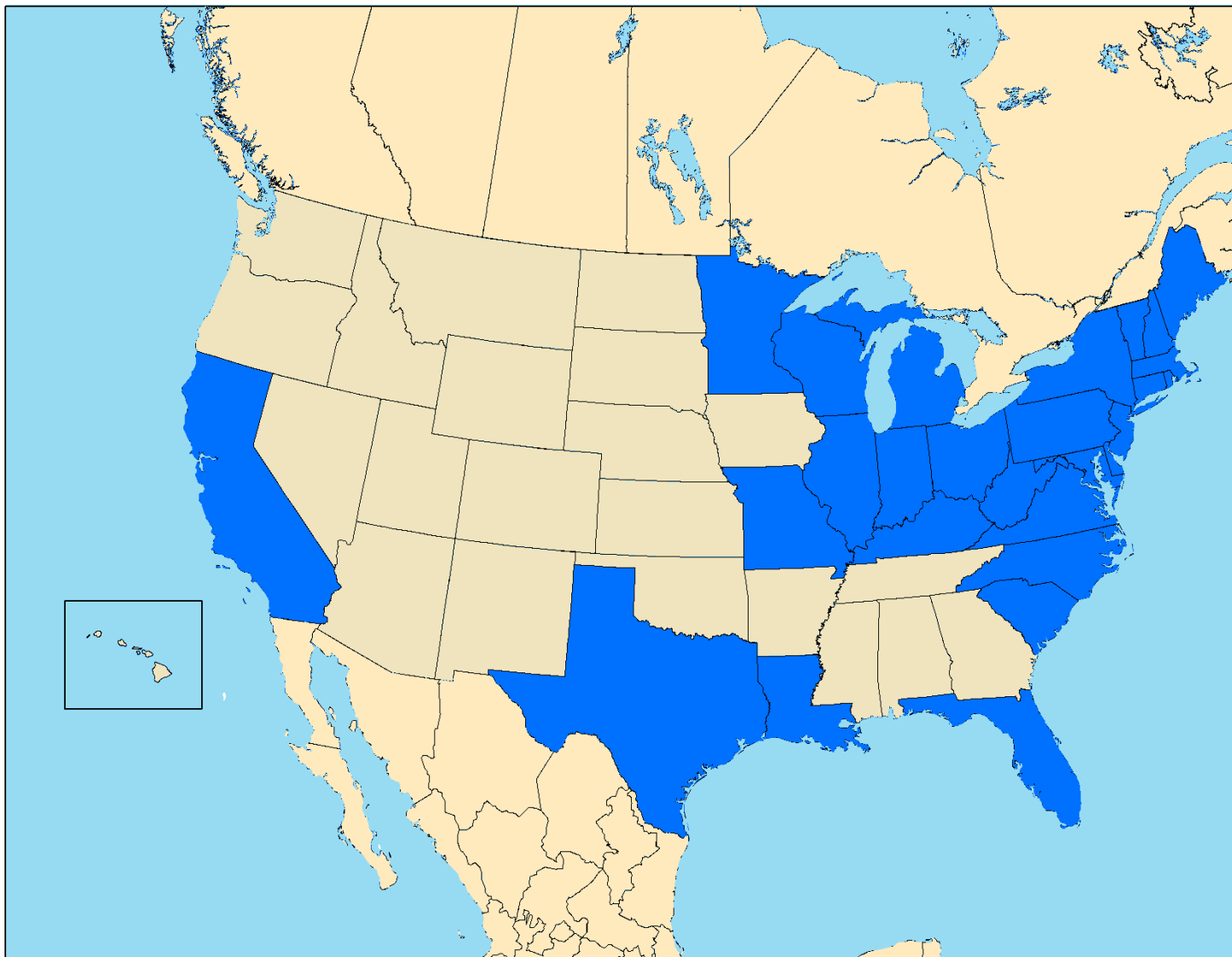
- » New software system
- » Coordination with other countries



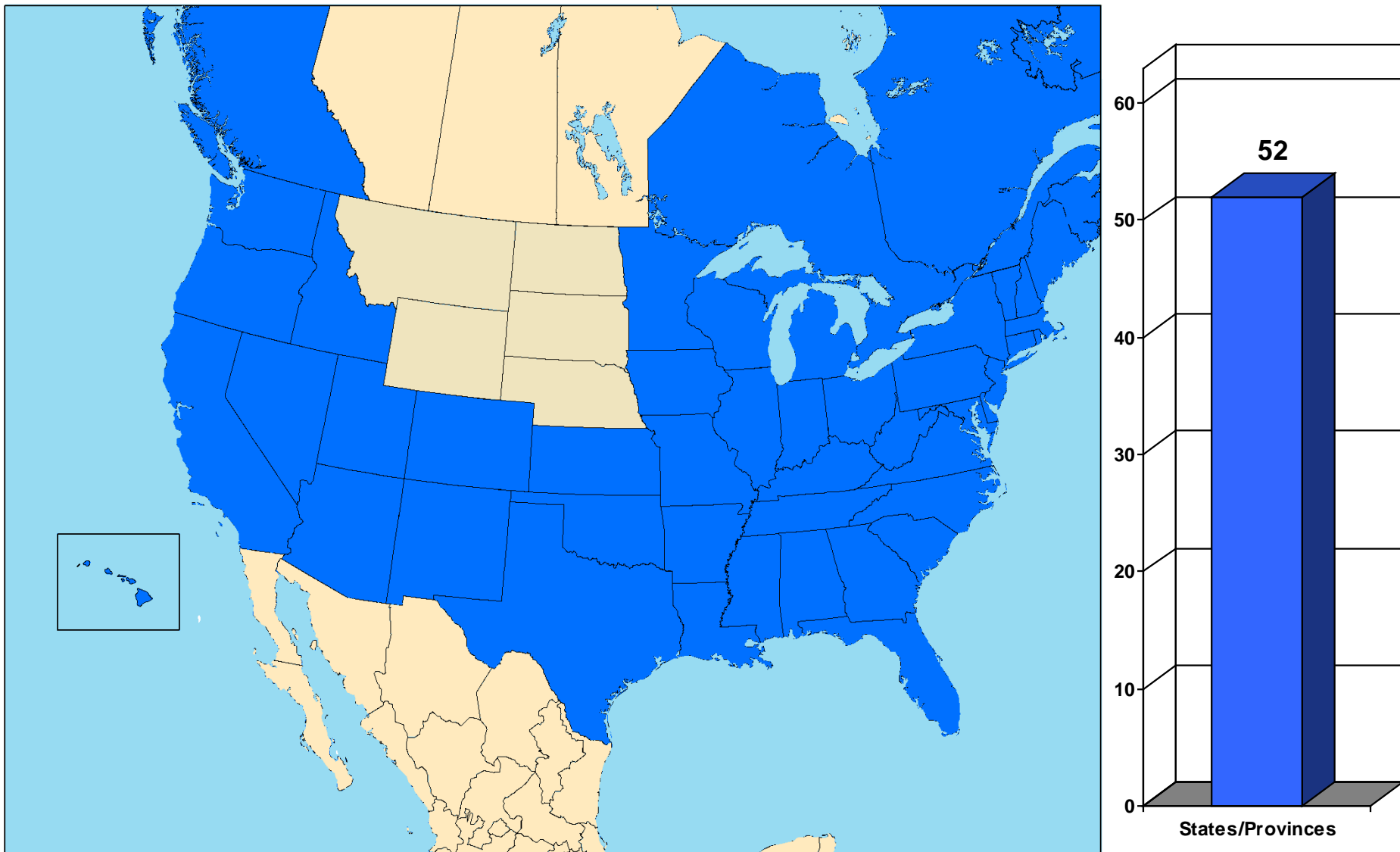
Participation: 1997



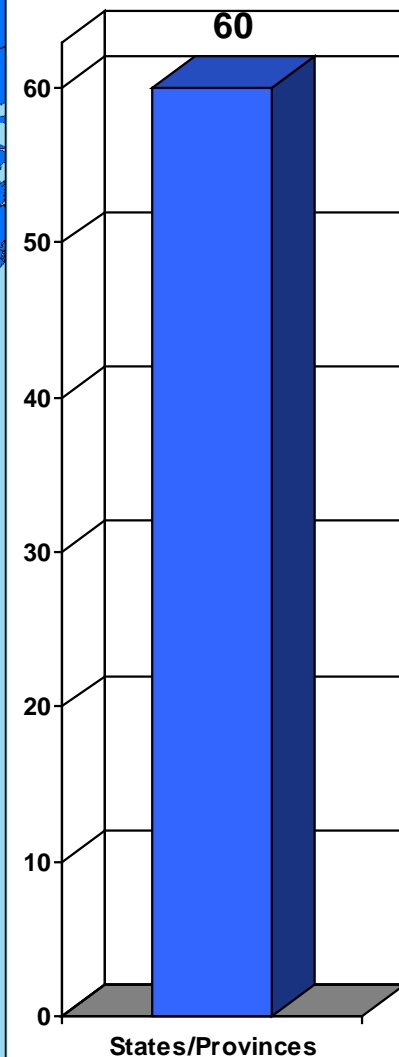
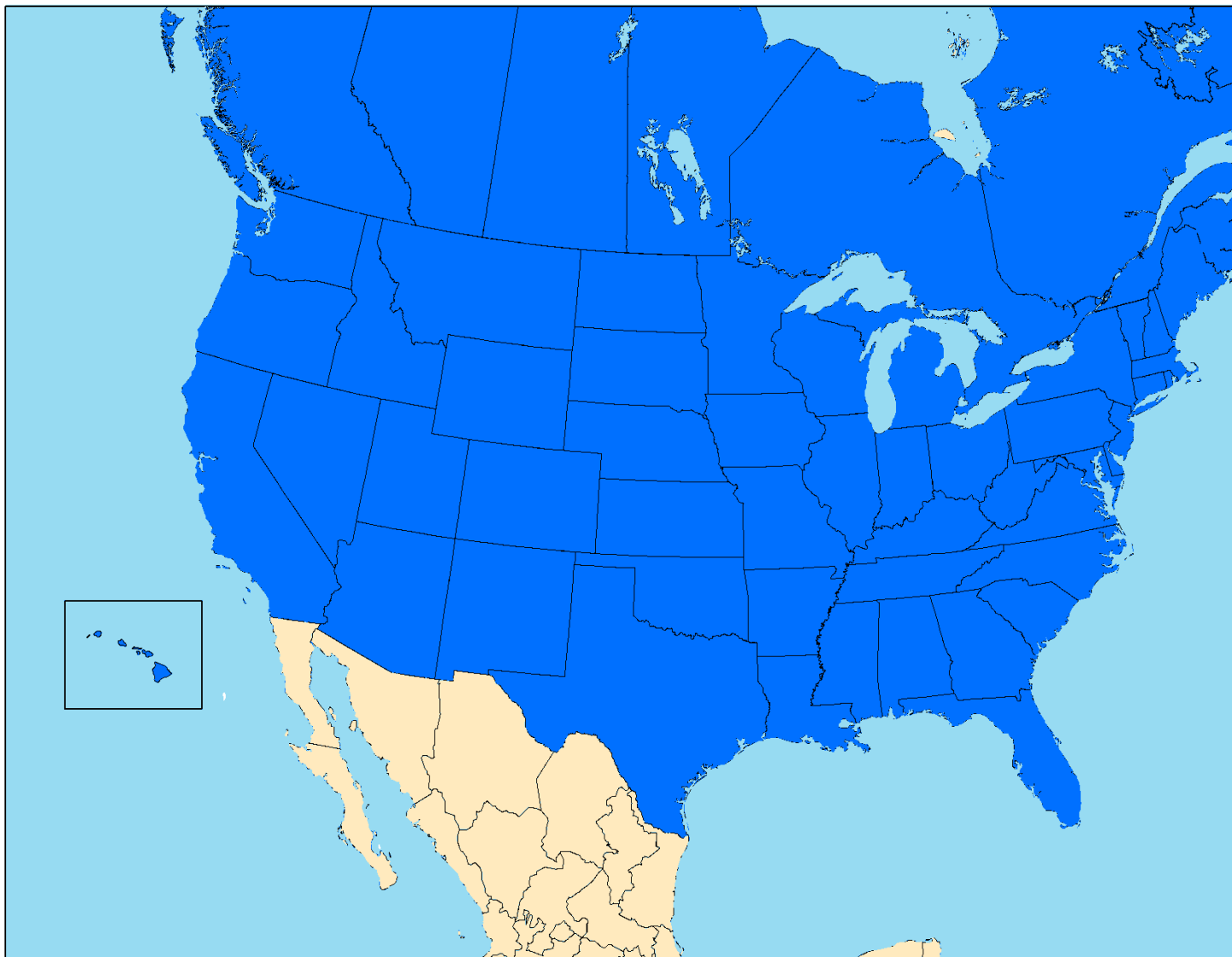
Participation: 1999



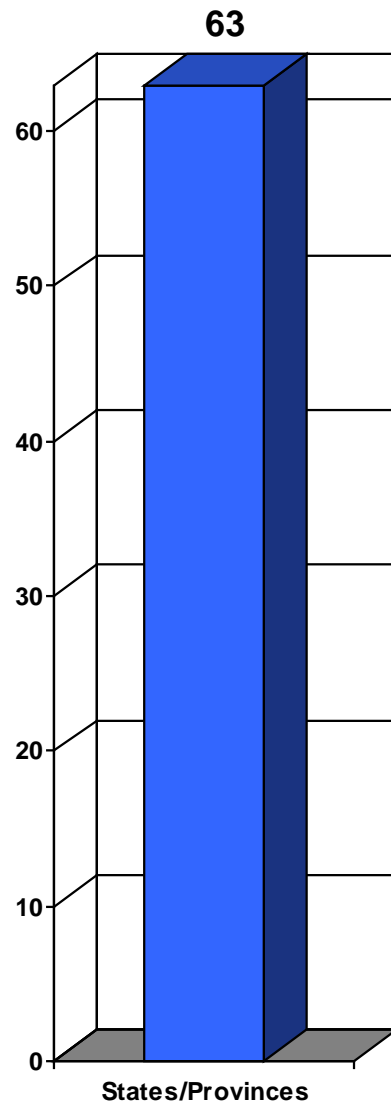
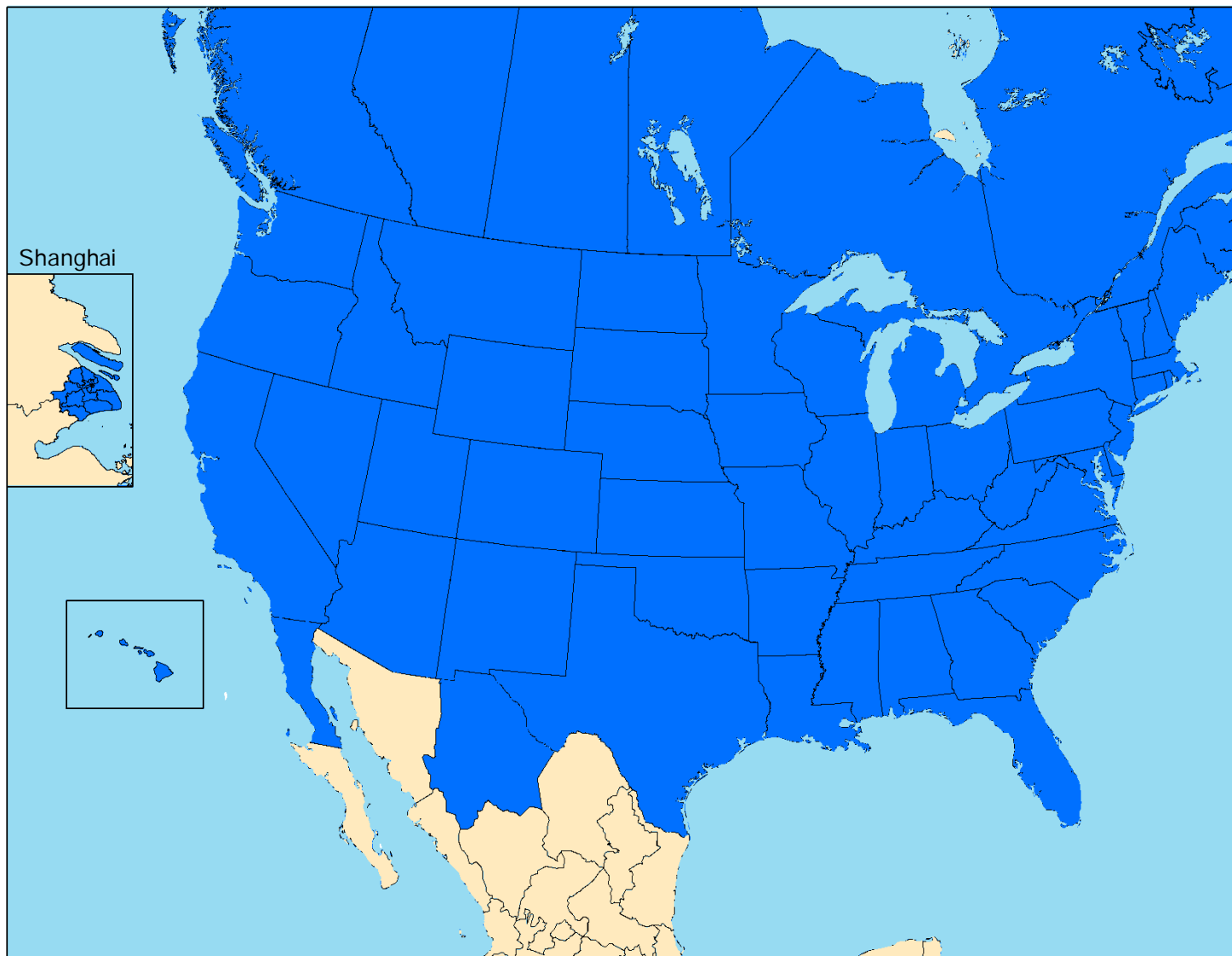
Participation: 2003



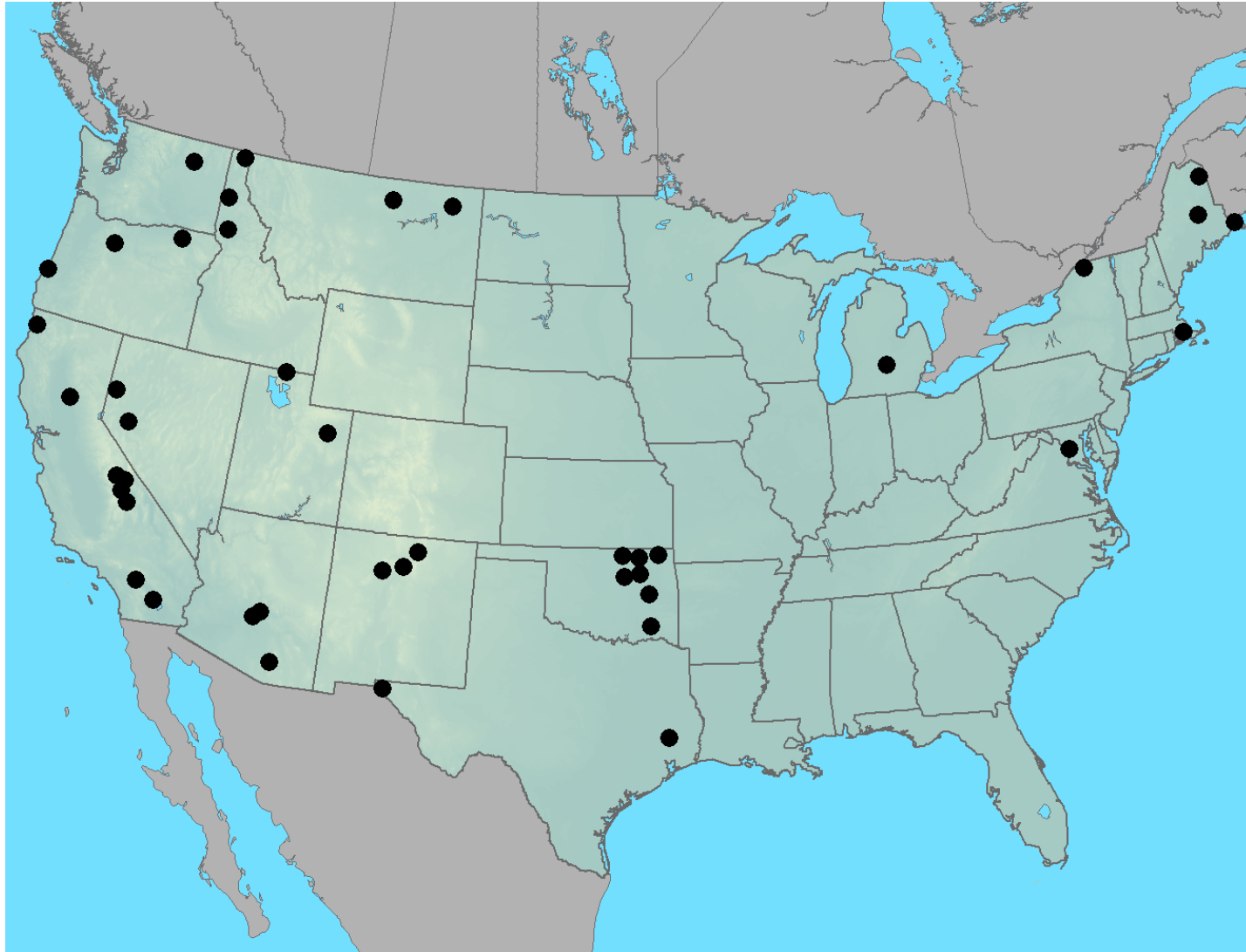
Participation: 2007



Participation: 2010



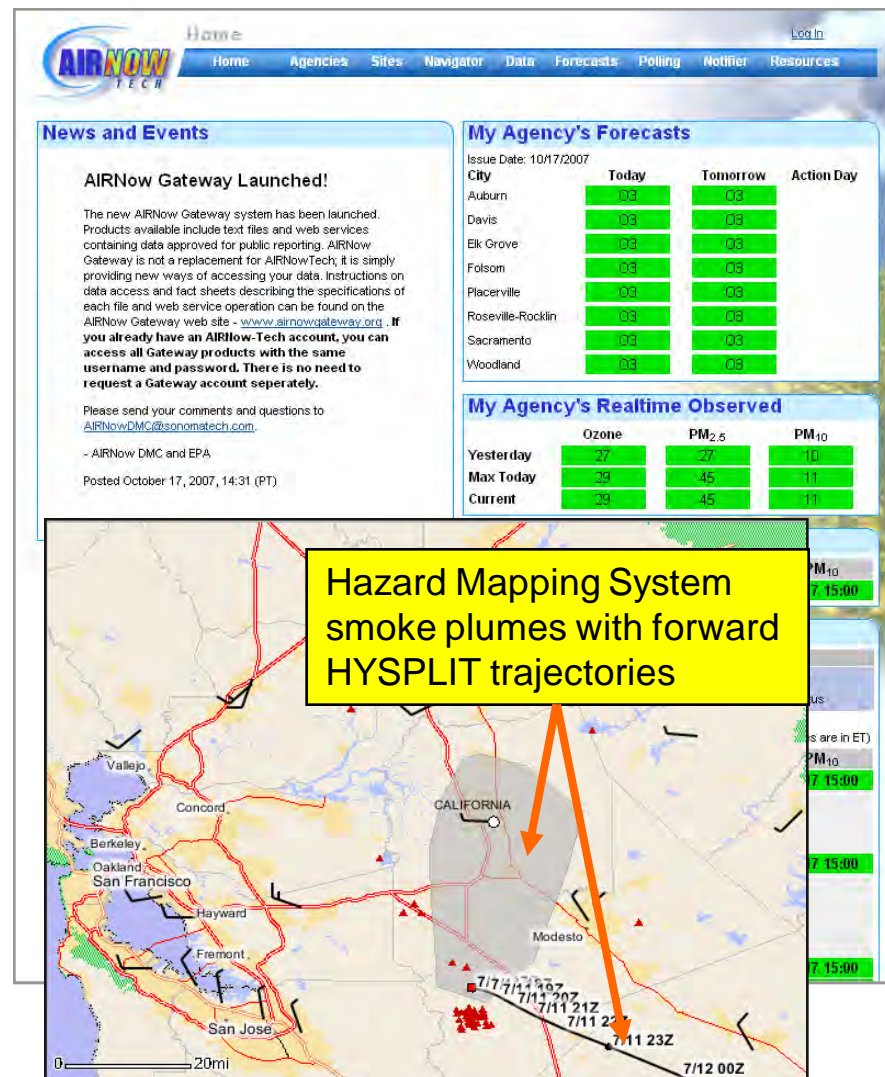
Participation by Tribal Groups



About AIRNow-Tech

AIRNowTech.org

- Decision Support System – management and analysis tool for the AIRNow Program
- GIS functions – HYSPLIT trajectory tool, satellite, and smoke products
- Data queries, personalized tools, preferences, and services
- Ability to view meteorological and air quality data
- Password-protected user accounts



AIRNow-Tech Features (1 of 2)



- **Home** – Relevant news, events, and snapshot of agency status
- **Agencies** – Status of monitor data delivery by agency and parameter
- **Sites** – Monitor information, configuration, and status by site
- **Navigator (GIS)** – Monitor maps, current and historical air quality and meteorological data display, HYSPLIT trajectories, numerous supporting GIS layers (including tribal boundaries)
- **Data** – Hourly, daily, and historical monitoring data queries
- **Forecasts** – Forecast submittal, analysis tools, and configuration
- **Polling** – Summaries on data delivery times and completeness
- **Notifier** – AIRNow program email listserv
- **EnviroFlash** – Air quality forecast distribution system
- **Resources** – General information for AIRNow Program and the Data Management Center (DMC)
- **My Account** – Account management, customizable preferences, and tools

AIRNow-Tech Features (2 of 2)

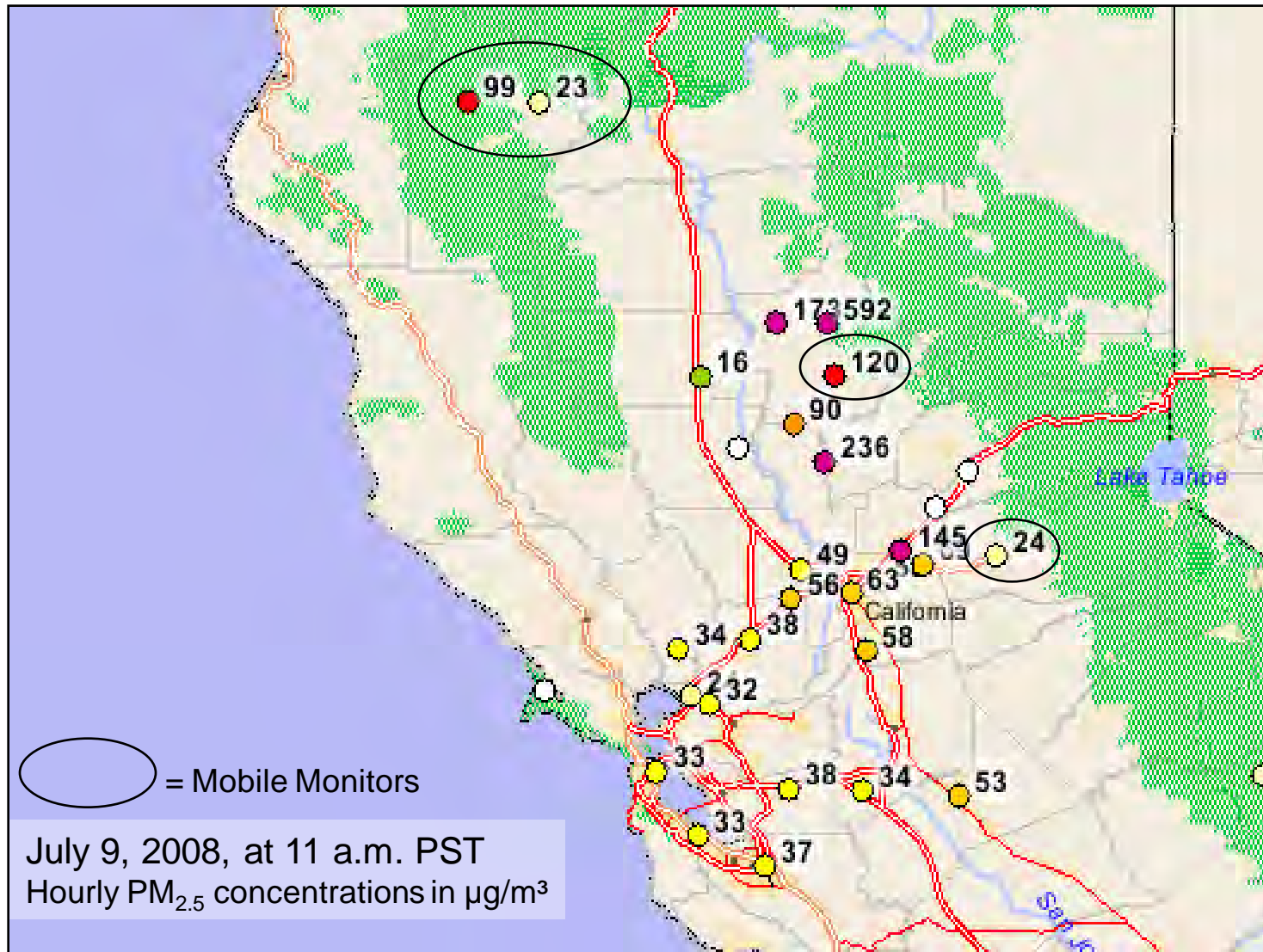
AIRNow-Tech tools for current or past event analysis

- Query and export spreadsheets
 - Real-time and past hourly air quality data (PM_{2.5}, PM₁₀, O₃, and other pollutants)
 - Data summaries (e.g., days with AQI over 100)
- Create time-series plots of current and past hourly or daily air quality data
- Access real-time and past meteorological observations
- Create and save GIS maps of
 - Current or past observed AQ and meteorological conditions
 - HYSPLIT backward and forward trajectories at different heights
 - Hazard Mapping System smoke and fire locations and other layers

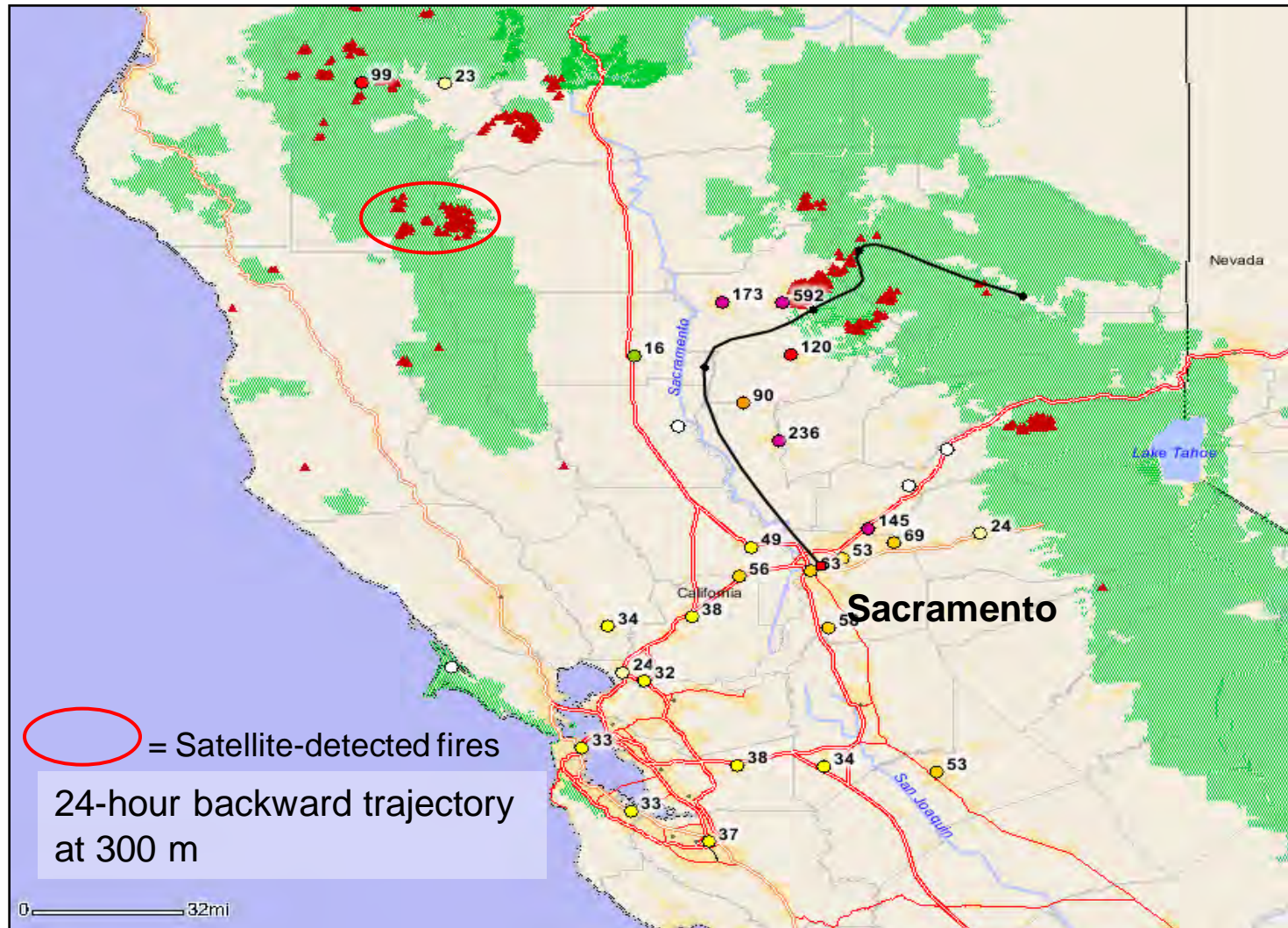
Case Study Analysis with AIRNow-Tech

- AIRNow-Tech was a key tool during the summer wildfires of 2008 in California
- Data flowed into AIRNow from mobile monitors that were deployed near fire locations
- Emergency response personnel used AIRNow-Tech to track air quality
 - Data queries
 - Navigator GIS
 - HYSPLIT
 - Satellite-detected fire locations

AIRNow-Tech Navigator (1 of 3)

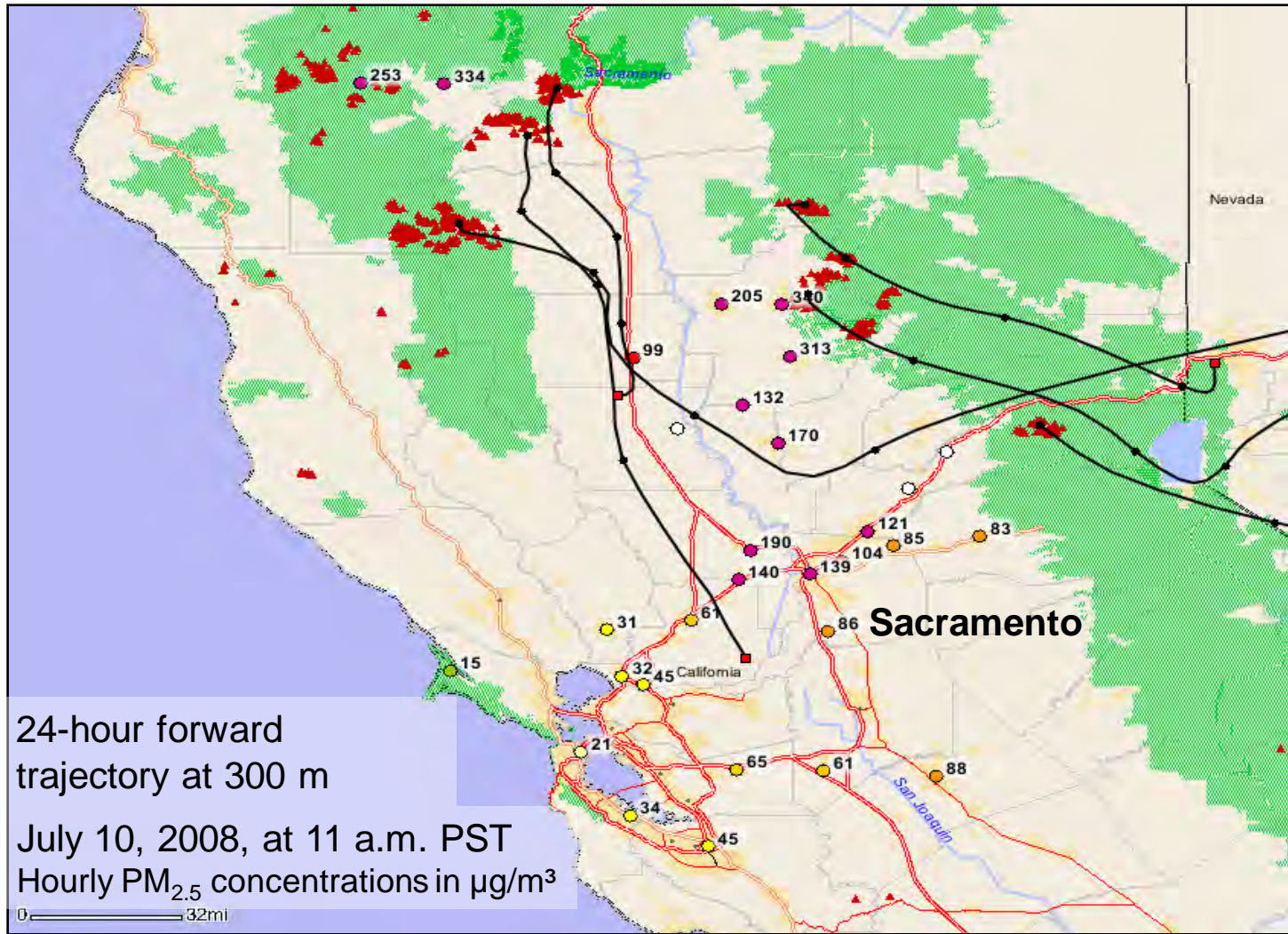


AIRNow-Tech Navigator (2 of 3)



Backward trajectory showing where Sacramento's air came from during the last 24 hours.

AIRNow-Tech Navigator (3 of 3)



Forward trajectory showing where the smoke from the wildfires was going during the next 24 hours.

What is the Air Quality Index? (1 of 3)

Air Quality Index (AQI)

- Provides indicator of the quality of the air and its health effects
- Color is key for communication
- Ranges from 0 to 500
- 101 corresponds to the level that violates the federal health standard (except for PM_{2.5})



AQI Values	AQI Category (Descriptor)	AQI Color
0 - 50	Good	Green
51 - 100	Moderate	Yellow
101 - 150	Unhealthy for Sensitive Groups	Orange
151 - 200	Unhealthy	Red
201 - 300	Very Unhealthy	Purple
301 - 500	Hazardous	Maroon

What is the Air Quality Index? (2 of 3)

Descriptors	Cautionary Statements
Good 0 – 50	No message
Moderate 51 – 100	Moderate health concerns for unusually sensitive individuals
Unhealthy for Sensitive Groups 101 – 150	Identifiable groups at risk – different groups for different pollutants
Unhealthy 151 – 200	General public at risk; sensitive groups at greater risk
Very Unhealthy 201 – 300	General public at greater risk; sensitive groups at greatest risk
Hazardous 301 – 500	Health warnings of emergency conditions

NAAQS*



*National Ambient Air Quality Standard

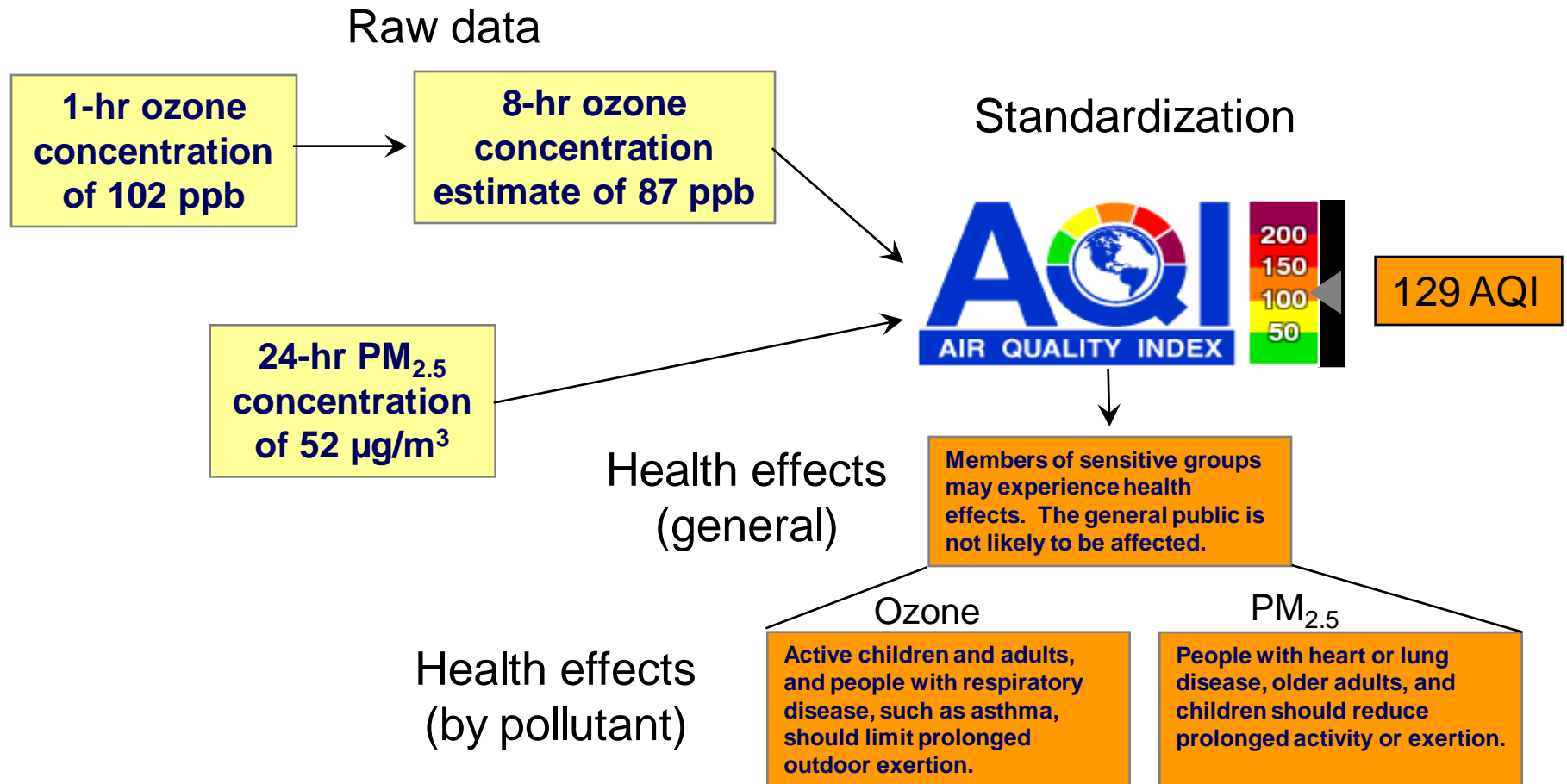
What is the Air Quality Index?

AQI Breakpoints (3 of 3)

AQI Values	8-hr Avg O ₃ (ppm)	24-hr Avg PM ₁₀ (µg/m ³)	24-hr Avg PM _{2.5} (µg/m ³)
0 - 50	0 – 0.059	0 – 54	0 – 15.4
51 - 100	0.06 – 0.075	55 – 154	15.5 – 35.4
101 - 150	0.076 – 0.095	155 – 254	35.5 – 65.4
151 - 200	0.096 – 0.115	255 – 354	65.5 – 150.4
201 - 300	0.116 – 0.374	355 – 424	150.5 – 250.4
301 - 500	Not defined	425 – 604	250.5 – 500.4

Pollutant Reporting – Air Quality Index

Uniform for all pollutants

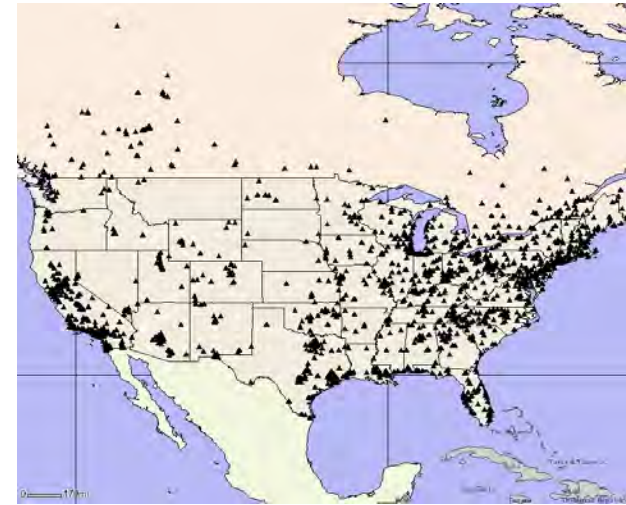


Getting Data into AIRNow

- Three ways to submit data to AIRNow
 - OBS file (phasing out)
 - XML file via Data Exchange Node
 - **AQCSV file**
- Details on each file format are available on the AIRNow-Tech Resources page
- Many data logger manufacturers have modules available to automatically create one or more of these formats

OBS Format

- Legacy format for data ingest into AIRNow
- Why are we phasing it out?
 - Difficult to program
 - No native support for
 - Mobile monitors
 - Three-dimensional data
 - Limited list of accepted parameters
 - No sub-hourly data
 - Applied only to North America
 - Difficult to use in mobile applications



AQCSV Format (1 of 2)

- Supports
 - AQS standards (parameter codes, POC)
 - Any AQS parameters
 - Speciated/lab data
 - Mobile monitors data (changing location)
- Allows for
 - Ingest of AQS data into AIRNow
 - Backfill of AQS certified data into AIRNow when available
 - Bulk data updates
 - Support of international data exchange
 - Easy encoding and parsing of data (Excel)



AQCSV Format (2 of 2)

- ISO Standards
 - Country codes (840 = USA)
 - Date and time
- AQS-Based
 - Parameter codes
 - Units codes
- Support for
 - AQS qualifier codes
 - Location information
 - Latitude and longitude
 - Elevation and GIS datum
 - Method codes
 - Measurement performance characteristics (value and uncertainty)

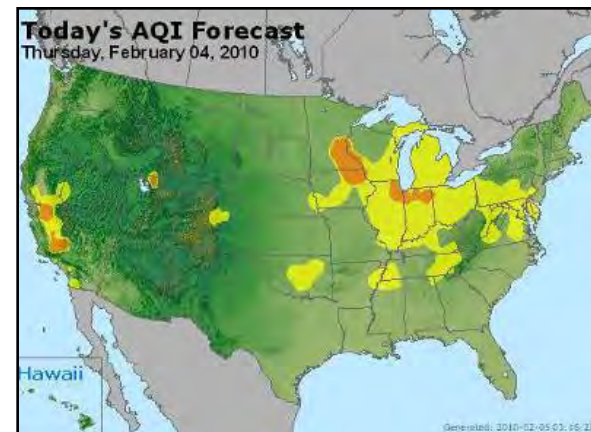
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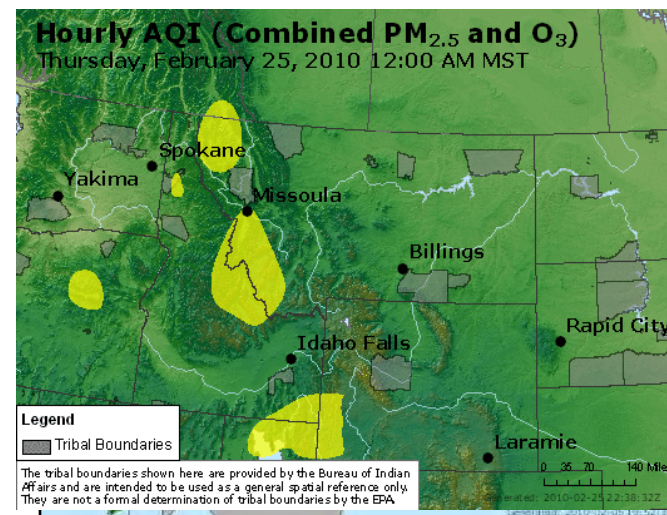
AIRNow Maps

- Map types include
 - Forecast or observed AQI
 - Pollutant-specific or overall AQI
 - Local, regional, or national scale
 - Current hour, current animation, or daily peak
- Map are archived on AIRNow.gov
- Maps are created automatically whenever new data are received

Forecasts



Observations



AIRNow.gov – Current Air Quality Maps

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Search: Go

LOCAL AIR QUALITY CONDITIONS AND FORECASTS

Zip Code: Go State: Alabama Go

[U.S. Air Quality Summary \(text\)](#)

Forecast Current AQI Air Current Current PM_{2.5}

Forecast Current AQI AQI Animation Current Ozone Current PM_{2.5}

Hourly PM_{2.5} AQI
Tuesday, May 10, 2011 8:00 PM EDT

Generated: 2011-05-11 00:21:02Z

Good Moderate USC Unhealthy Very Unhealthy Hazardous ! Action Day

Announcements

- 5/9/11: [Air Quality Officials Issue Health Notice for N.C. Coastal Areas due to wildfire](#)
- 5/2/11: Greenversations Blog: [Raising the Flag for Air Quality Awareness](#)
- [Japanese Nuclear Emergency: EPA's Radiation Air Monitoring](#)
- 4/1/11: U.S. EPA's 2011 National Air Quality Conference - [Presentations Now Available](#)
- 3/28/11: Greenversations Blog: [New Picture Book Teaches Kids about Air Quality](#)

Headlines

E-Mail Notification

EnviroFlash provides air quality information such as forecasts and action day notifications via email for your area of interest. [Sign-Up](#)

[Follow Us on Twitter](#)

[AQI in Google Earth](#)

[AirCompare](#)

[Publications | Publicaciones \(en español\)](#)

[Air Quality Maps: Monitoring Locations and Archives](#)

Archive maps

AIRNow.gov – Archived Maps

Search archives by

- Map type
- Region
- Month/year

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Search: Go

AIRNOW LOCAL AIR QUALITY CONDITIONS AND FORECASTS

Zip Code: Go State: Alabama Go







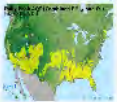


[U.S. Air Quality Summary \(text\)](#)

[AIRNow Home](#) >> Air Quality Maps - Archive - Monthly Overview

Note: It is not possible to display maps prior to October 12, 2009 with our new system. For older maps please visit the [1/1/2009 - 10/11/2009 map directory](#) for instructions.

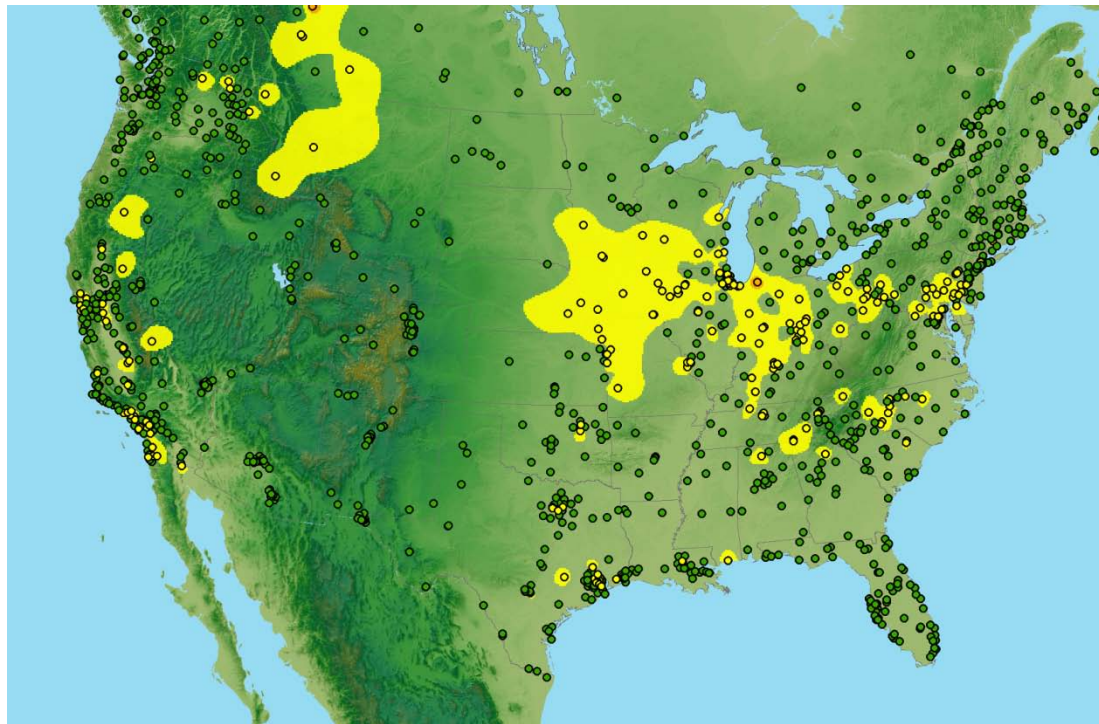
Map Type: Map Region: Month: Year:

May 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						
						

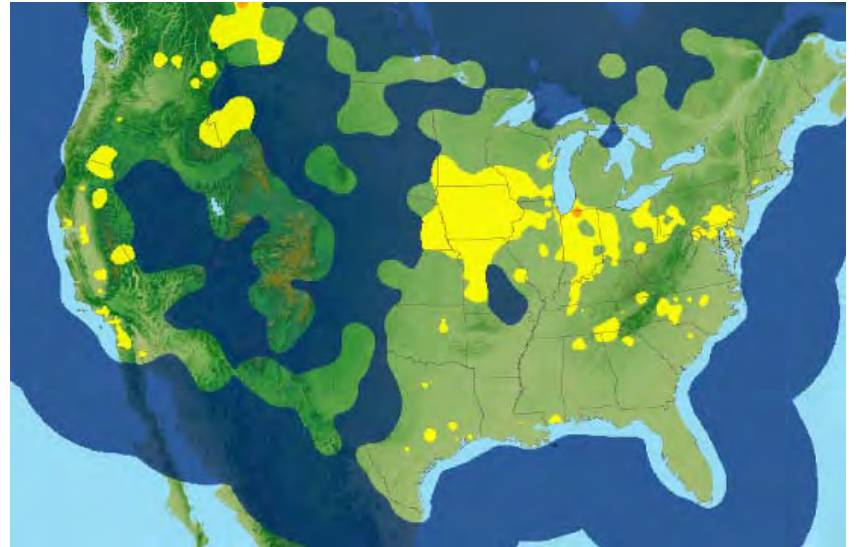
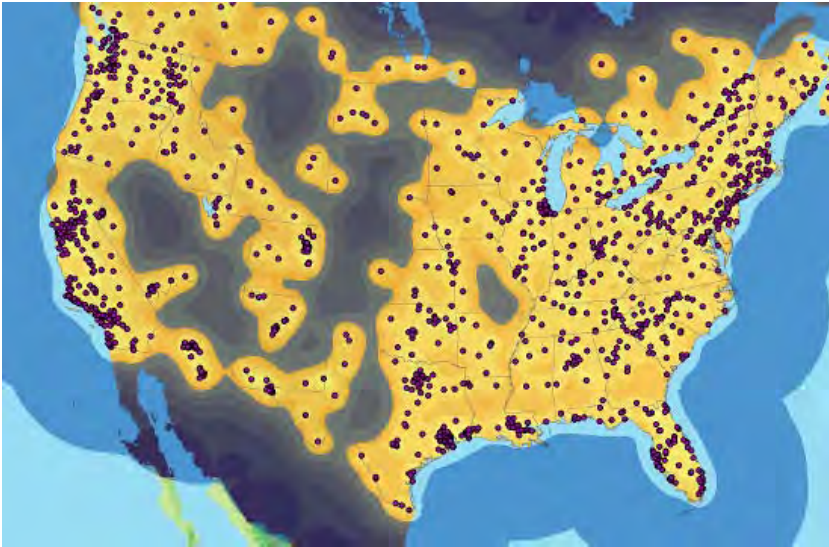
Making AIRNow Maps: Masking

AQI is first interpolated based on observations at stations. But how do we deal with monitor-sparse regions?



AIRNow Maps: Masking

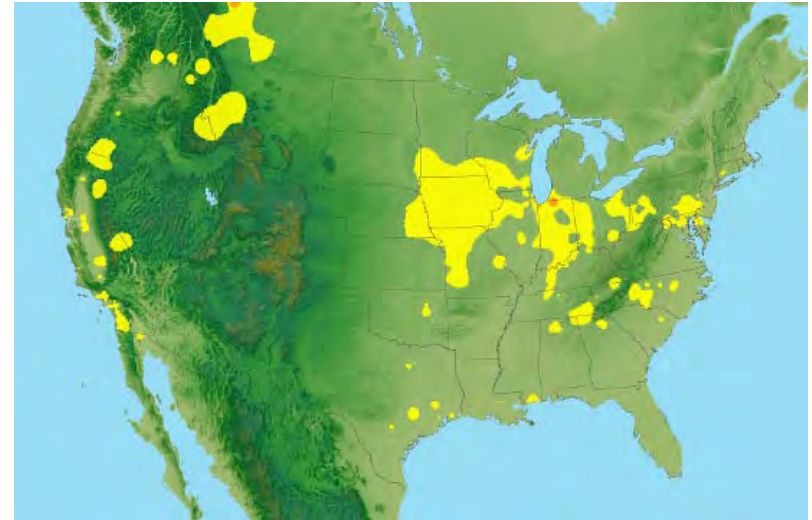
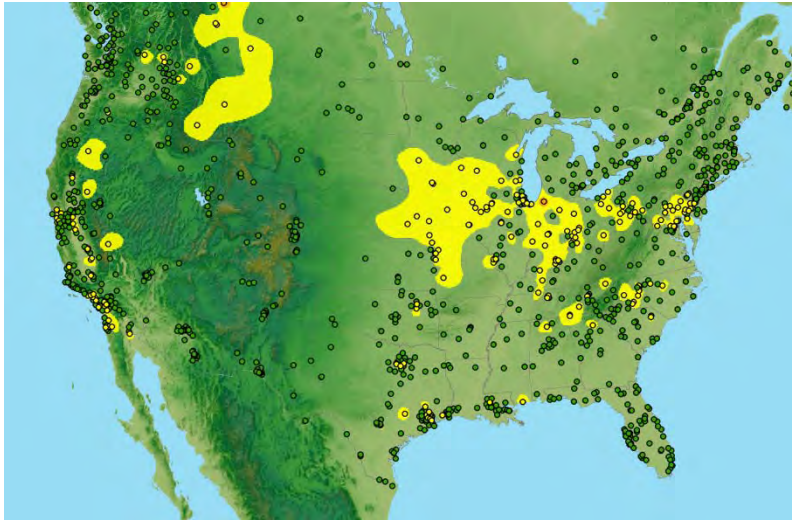
A mask is created to block out areas without sufficient monitoring.



Blue shading indicates masked areas

AIRNow Maps: Masking

The resulting map shows interpolated AQI which is accurate near station observations but is not displayed in regions far from monitors.



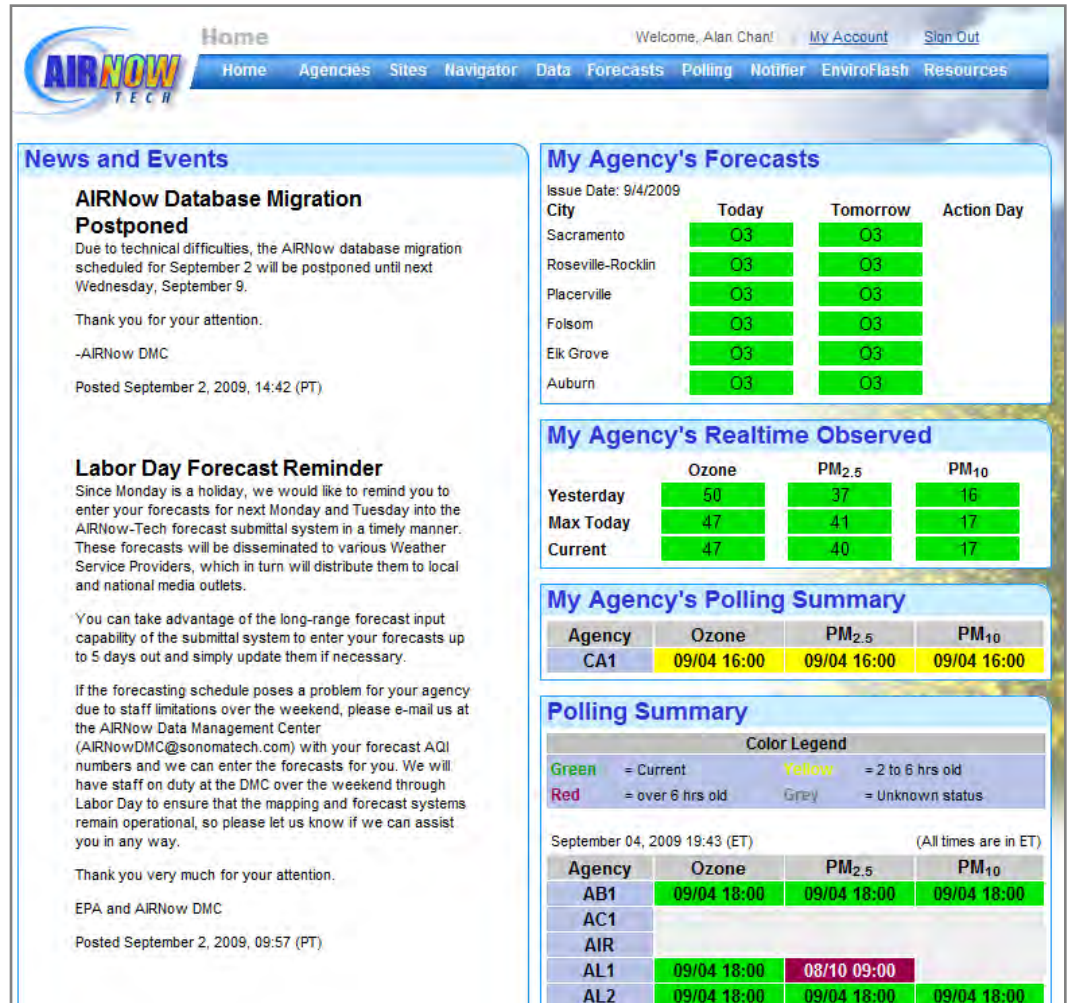
AIRNow-Tech Demonstration

- Site and monitor management
- Performing data queries
- Navigator GIS
- Customizable preferences and tools in *My Account*

AIRNow-Tech Home Page

AIRNowTech.org

- Default home page includes a News and Events section and a Polling Summary of all participating agencies
- Home page can be personalized to include other agency-specific information



The screenshot shows the AIRNow-Tech Home Page. At the top, there is a navigation bar with links: Home, Agencies, Sites, Navigator, Data, Forecasts, Polling, Notifier, EnviroFlash, and Resources. A welcome message "Welcome, Alan Chan!" and links for "My Account" and "Sign Out" are also present. The main content area is divided into several sections:

- News and Events**
 - AIRNow Database Migration Postponed**

Due to technical difficulties, the AIRNow database migration scheduled for September 2 will be postponed until next Wednesday, September 9.

Thank you for your attention.

-AIRNow DMC

Posted September 2, 2009, 14:42 (PT)
 - Labor Day Forecast Reminder**

Since Monday is a holiday, we would like to remind you to enter your forecasts for next Monday and Tuesday into the AIRNow-Tech forecast submittal system in a timely manner. These forecasts will be disseminated to various Weather Service Providers, which in turn will distribute them to local and national media outlets.

You can take advantage of the long-range forecast input capability of the submittal system to enter your forecasts up to 5 days out and simply update them if necessary.

If the forecasting schedule poses a problem for your agency due to staff limitations over the weekend, please e-mail us at the AIRNow Data Management Center (AIRNowDMC@sonomatech.com) with your forecast AQI numbers and we can enter the forecasts for you. We will have staff on duty at the DMC over the weekend through Labor Day to ensure that the mapping and forecast systems remain operational, so please let us know if we can assist you in any way.

Thank you very much for your attention.

EPA and AIRNow DMC

Posted September 2, 2009, 09:57 (PT)
- My Agency's Forecasts**

Issue Date: 9/4/2009

City	Today	Tomorrow	Action Day
Sacramento	03	03	
Roseville-Rocklin	03	03	
Placerville	03	03	
Folsom	03	03	
Elk Grove	03	03	
Auburn	03	03	
- My Agency's Realtime Observed**

	Ozone	PM _{2.5}	PM ₁₀
Yesterday	50	37	16
Max Today	47	41	17
Current	47	40	17
- My Agency's Polling Summary**

Agency	Ozone	PM _{2.5}	PM ₁₀
CA1	09/04 16:00	09/04 16:00	09/04 16:00
- Polling Summary**

Color Legend

Green	= Current	Yellow	= 2 to 6 hrs old
Red	= over 6 hrs old	Grey	= Unknown status

September 04, 2009 19:43 (ET) (All times are in ET)

Agency	Ozone	PM _{2.5}	PM ₁₀
AB1	09/04 18:00	09/04 18:00	09/04 18:00
AC1			
AIR			
AL1	09/04 18:00	08/10 09:00	
AL2	09/04 18:00	09/04 18:00	09/04 18:00

Site and Monitor Management (1 of 4)

AIRNOW TECH Agencies Welcome, AIRNow Tech User! | [My Account](#) | [Sign Out](#)

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[Agencies](#) » [Arkansas Dept. of Environmental Quality](#) » [Sites](#)

[Show All Agencies](#)

Color Legend

Green = Current Yellow = 2 to 6 hrs old
Red = over 6 hrs old Grey = Unknown status
Black = Needs Attention

[Parameter Reference](#)

ID	Agency	Active Sites	Ozone	PM _{2.5}	CO	NO ₂	PM ₁₀	SO ₂	NO	NO _x	NO _y	NO _{2_Y}	NO _{2_T}	NO ₃
AB1	Environment Canada - Alberta	27												
AC1	Alabama-Coushatta Tribe of Texas	1												
AIR	AIRSIS	7												
AL1	Alabama Department of Environmental Management	16												
AL2	Jefferson County Department of Health	10												
AL3	Tennessee Valley Authority RSOE	5												
AL4	Huntsville Natural Resources and Environmental Management	4												
AR1	Arkansas Dept. of Environmental Quality	11												
AZ1	Arizona Department of Environmental Quality	3												
AZ2	Maricopa County Air Quality Department	22												
AZ3	Pima County Department of Environmental Quality	10												
BC1	British Columbia Ministry of Water, Land and Air Protection	52												
BC2	Greater Vancouver Regional District	7												
CA0	Imperial County Air Pollution Control District	5												
CA1	Sacramento Metro. AQMD	11												

Current agency delivery status is shown with color-coded boxes

Site and Monitor Management (2 of 4)

The screenshot displays the AIRNOW TECH Site Management interface. The top navigation bar includes links for Home, Agencies, Sites (highlighted), Navigator, Data, Forecasts, Polling, Notifier, and Resources. A breadcrumb trail shows the path: Agencies » Arkansas Dept. of Environmental Quality » Sites. A color legend explains the status of data delivery: Green for Current, Yellow for 2 to 6 Hrs Old, Red for Over 6 Hrs Old, Grey for Unknown Status, Black for Needs Information, and a checkmark for Approved for Public. A parameter reference table lists various pollutants and parameters. A yellow callout box points to the 'MARION' site, stating: 'Current parameter delivery status is shown with color-coded boxes'.

Site #	Site Name	Status	Ozone	PM _{2.5}	CO	NO ₂	PM ₁₀	SO ₂	NO	NO _x	NO _y	NO _{2_Y}	NO _{2_T}	NO ₃	SO ₄	SO _{2_T}	CO _T	EC	OC	BC	UV-AETH	Temp.	WS	WD
051191005	ADEQ-45	Active	✓	✓																				
050350006	Clarkdale	Active	✓																					
051010002	DEER	Active	✓																					
051130003	EAGLEMT	Active	✓																					
050350007	Earle	Active	✓																					
051390006	El Dorado	Active		✓																				
051430004	FAYETTEVILLE	Active		✓																				
050350005	MARION	Active	✓	✓																				
051191002	NLRAP	Active	✓																					
050970001	ODEN	Active	✓																					
051190007	PARR	Active	✓																					

Site and Monitor Management (3 of 4)

AIRNOW TECH Site Management

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[Agencies](#) » [Site List](#) » [Edit Sites](#)

Easily toggle through your agency's sites by using the drop-down menu.

AQS Code*: 050350005

Site ID*: n/a

Site Name*: MARION

Agency ID: AR1

State: AR

County: CRITTELD

MSA: MEMPHIS

GMT Offset*: 6

Status*: Active

Geo Type: n/a

Elevation: 0 ft. or 0 m.

Latitude*: 35 11 48 or 35.1967

Longitude*: -90 11 28 or -90.1911

Address: n/a

Pollutants Measured: **OZONE**

Enable Editing View QC Criteria

*Required

Edit site information by clicking on "Enable Editing."

Site status can be set to either *Active* or *Inactive*. Data from both *Active* and *Inactive* sites are used to produce maps and other AQI reporting products. Edit parameter and call information by clicking on a parameter name.

Site and Monitor Management (4 of 4)

Parameter Specification for MARION

[Site List](#) > [Edit Sites](#) [Back to Site Detail](#)

O3

Are data approved for public reporting? ☒ **03 (PPB)**

Slope : 0.83383

Intercept : 0.002668

Measurement Scale : Select

Collection Description : n/a

Analysis Description : n/a

Adjustment Applied : ☐

Adjustment applied prior to data submittal to DMC:

n/a

Other information and comments - optional:

n/a

Sampling Frequency : n/a

Minimum Detection Limit : n/a

Instrument Manufacturer : n/a

Other instrument information - optional (e.g., model, serial number, accuracy):

n/a

Approve data for public reporting

Performing Data Queries (1 of 7)

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[Pre-defined Queries](#) | [Hourly Data](#) | [Data Summaries](#) | [AQI History](#)

Select Monitoring Sites

Agency: Map Domain: ☐

Parameter: County: ☐

EPA Region: MSA: ☐

State:

Status:

AQS Code:

Filtered Sites Selected Sites

>> > < <<

Site List Name:

Site Selector

Performing Data Queries (2 of 7)

AIRNOW TECH

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[Home](#) [Agencies](#) [Sites](#) [Navigator](#) [Data](#) [Forecasts](#) [Polling](#) [Notifier](#) [Resources](#)

[Pre-defined Queries](#) | [Hourly Data](#) | [Data Summaries](#)

Site(s):
Date Range:
Query:

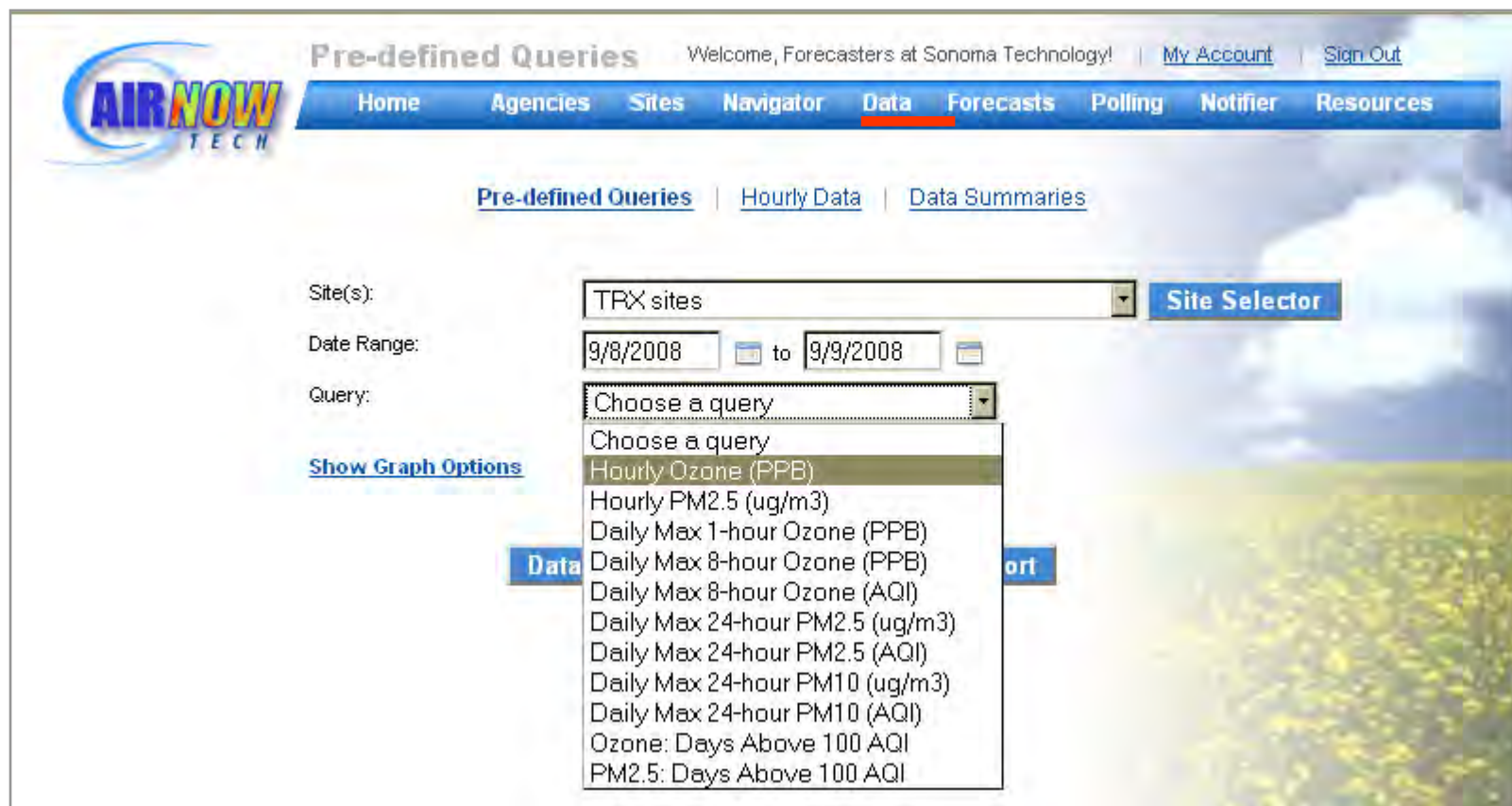
[Show Graph Options](#)

Data

TPX sites
Current Selection (0 sites)
My Agency's Sites
Chicago
Columbus PM2.5
Youngstown PM2.5
San Diego PM2.5 sites
Youngstown Ozone
New York City
TPX sites
Ohio
Minn./S.P. Verification
Columbus Ozone
SD Fire sites
OAP
Imperial Valley
Cleveland - all
Hawaii
New Orleans Ozone
LA-MS PM2.5
CMH and YNG ozone

Site Selector

Performing Data Queries (3 of 7)



AIRNOW TECH

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[Home](#) [Agencies](#) [Sites](#) [Navigator](#) **[Data](#)** [Forecasts](#) [Polling](#) [Notifier](#) [Resources](#)

[Pre-defined Queries](#) | [Hourly Data](#) | [Data Summaries](#)

Site(s): **Site Selector**

Date Range: to

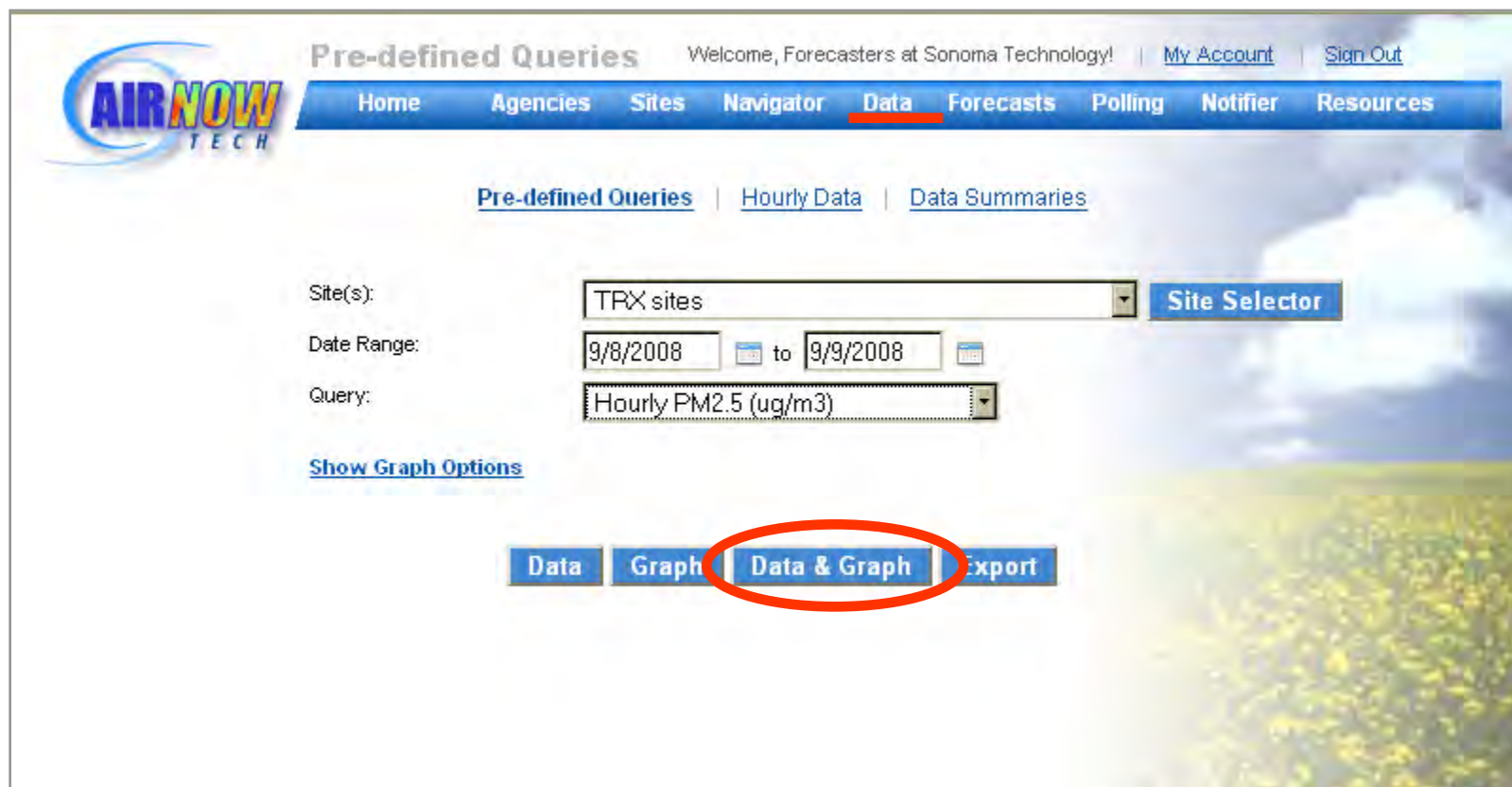
Query:

[Show Graph Options](#)

Data **ort**

- Choose a query
- Hourly Ozone (PPB)
- Hourly PM2.5 (ug/m3)
- Daily Max 1-hour Ozone (PPB)
- Daily Max 8-hour Ozone (PPB)
- Daily Max 8-hour Ozone (AQI)
- Daily Max 24-hour PM2.5 (ug/m3)
- Daily Max 24-hour PM2.5 (AQI)
- Daily Max 24-hour PM10 (ug/m3)
- Daily Max 24-hour PM10 (AQI)
- Ozone: Days Above 100 AQI
- PM2.5: Days Above 100 AQI

Performing Data Queries (4 of 7)



The screenshot displays the AIRNOW TECH website interface. At the top, there is a navigation bar with links: Home, Agencies, Sites, Navigator, **Data**, Forecasts, Polling, Notifier, and Resources. The 'Data' link is highlighted with a red underline. Below the navigation bar, the 'Pre-defined Queries' section is active, showing links for 'Pre-defined Queries', 'Hourly Data', and 'Data Summaries'. The 'Pre-defined Queries' link is underlined. The main content area contains a form for querying data. The 'Site(s):' field is set to 'TPX sites' with a 'Site Selector' button. The 'Date Range:' field shows '9/8/2008' to '9/9/2008'. The 'Query:' field is set to 'Hourly PM2.5 (ug/m3)'. Below the form, there is a 'Show Graph Options' link. At the bottom, there is a row of buttons: 'Data', 'Graph', 'Data & Graph', and 'Export'. The 'Data & Graph' button is highlighted with a red circle.

AIRNOW TECH

Pre-defined Queries Welcome, Forecasters at Sonoma Technology! | [My Account](#) | [Sign Out](#)

Home Agencies Sites Navigator **Data** Forecasts Polling Notifier Resources

[Pre-defined Queries](#) | [Hourly Data](#) | [Data Summaries](#)

Site(s): [Site Selector](#)

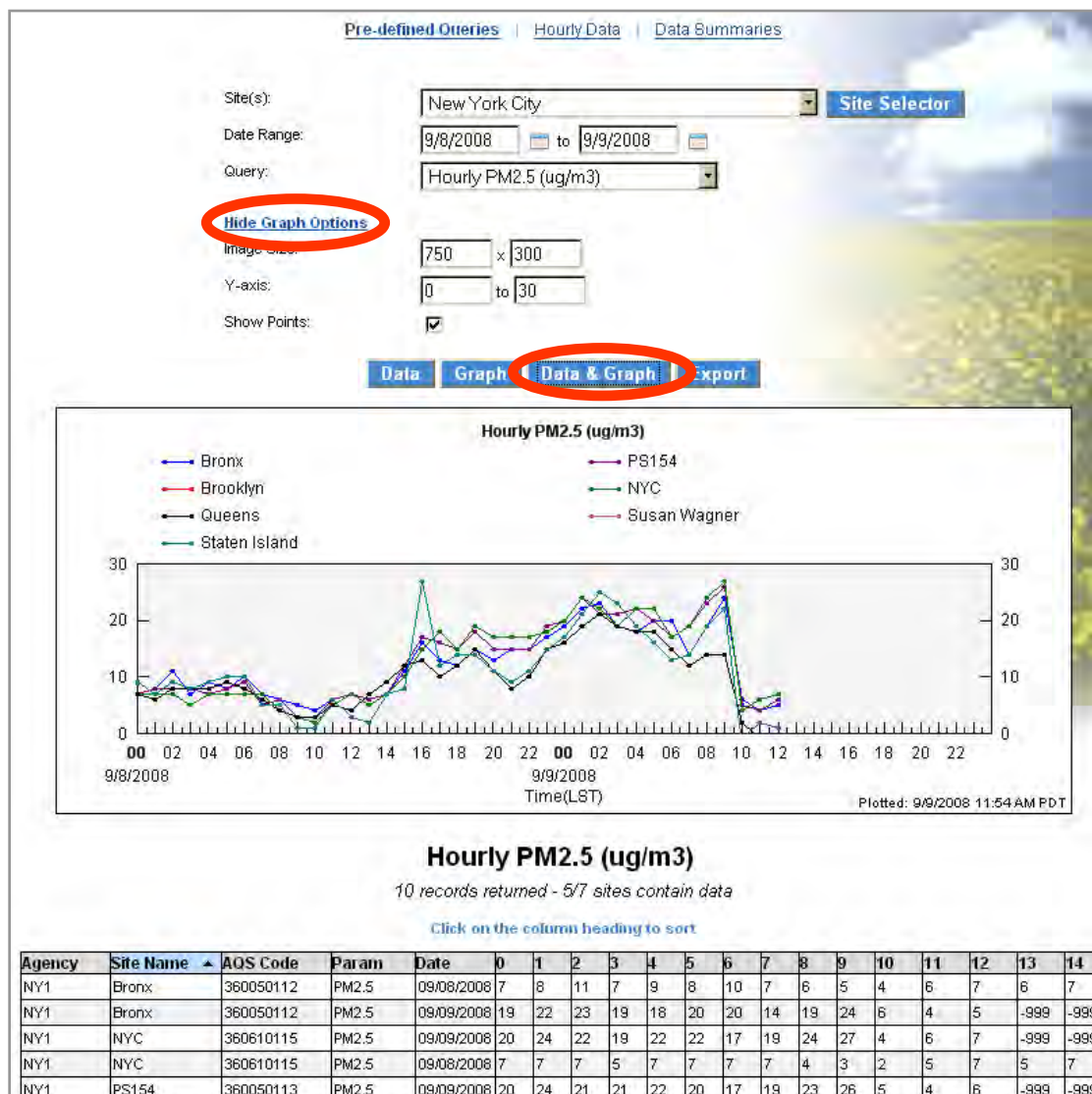
Date Range: to

Query:

[Show Graph Options](#)

[Data](#) [Graph](#) **[Data & Graph](#)** [Export](#)

Performing Data Queries (5 of 7)

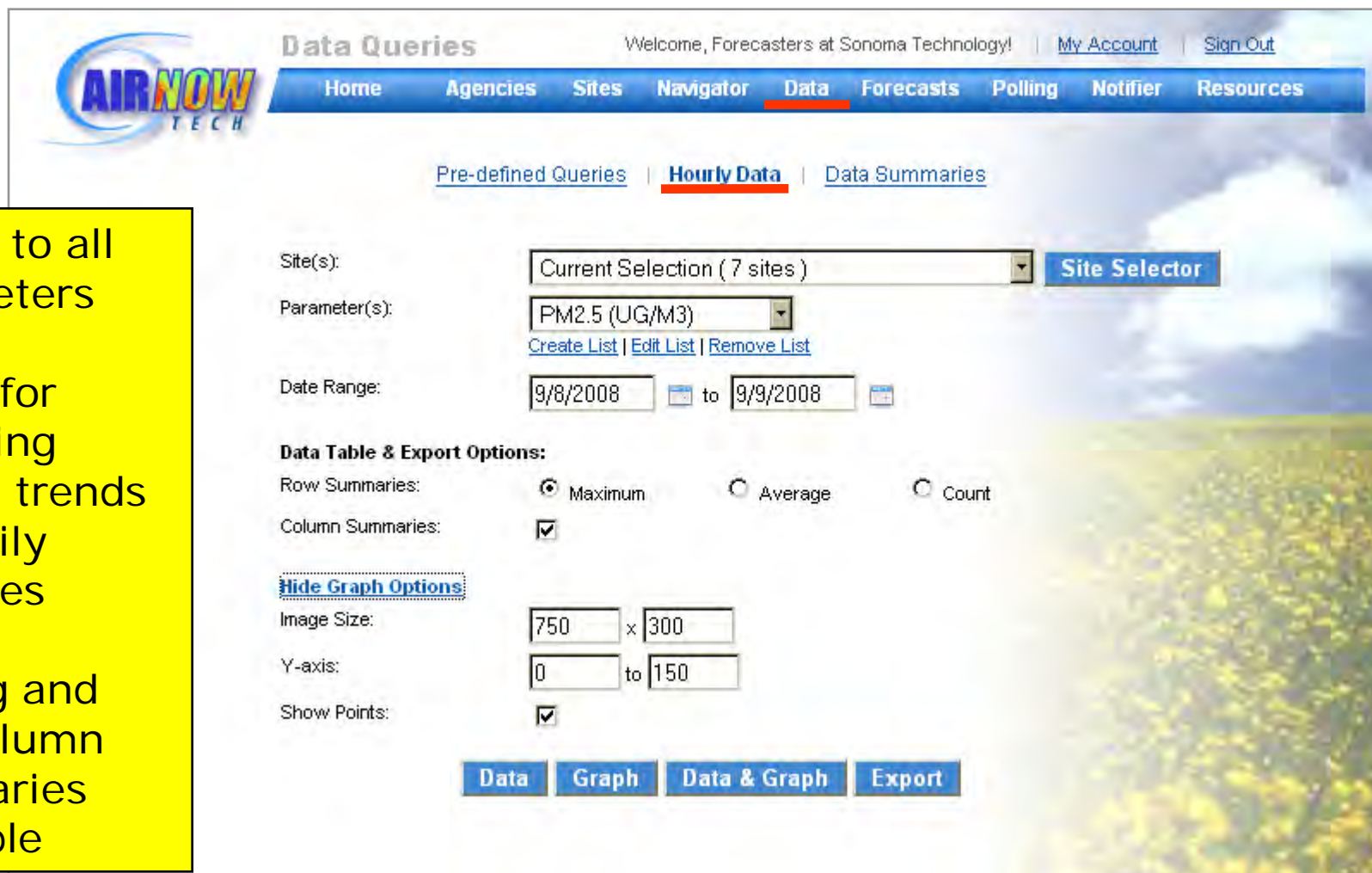


Performing Data Queries (6 of 7)

Access to all parameters

Useful for analyzing diurnal trends and daily averages

Sorting and row/column summaries available



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Data Queries Welcome, Forecasters at Sonoma Technology! | [My Account](#) | [Sign Out](#)

[Home](#) [Agencies](#) [Sites](#) [Navigator](#) [Data](#) [Forecasts](#) [Polling](#) [Notifier](#) [Resources](#)

[Pre-defined Queries](#) | [Hourly Data](#) | [Data Summaries](#)

Site(s): [Site Selector](#)

Parameter(s): [Create List](#) | [Edit List](#) | [Remove List](#)

Date Range: to

Data Table & Export Options:

Row Summaries: ☒ Maximum ☐ Average ☐ Count

Column Summaries: ☒

[Hide Graph Options](#)

Image Size: x

Y-axis: to

Show Points: ☒

[Data](#) [Graph](#) [Data & Graph](#) [Export](#)

Performing Data Queries (7 of 7)

The screenshot shows the AIRNOW TECH Data Summary page. At the top, there is a navigation bar with links: Home, Agencies, Sites, Navigator, Data (highlighted), Forecasts, Polling, Notifier, and Resources. Below this, there is a sub-navigation bar with links: Pre-defined Queries, Hourly Data, and Data Summaries (highlighted). The main content area contains several form fields: Site(s) with a dropdown menu showing 'Current Selection (7 sites)' and a 'Site Selector' button; Parameter(s) with a dropdown menu showing 'PM2.5 (UG/M3)' and links for 'Create List', 'Edit List', and 'Remove List'; Date Range with two date pickers showing '9/8/2008' to '9/9/2008'; and Metric with a dropdown menu showing 'Daily Maximum Concentration'. Below these fields, there is a section for 'Data Table & Export Options' with 'Group By' set to 'None', 'Aggregate By' set to 'All Sites', and a checkbox for 'Pivot Data' which is unchecked. At the bottom, there are four buttons: 'Data', 'Graph', 'Data & Graph', and 'Export'. The background of the page features a blue sky with clouds.

Access to all parameters

Useful for daily maximum values or AQI categories over a few weeks or months

Sorting and row/column summaries available

Data from 1993 to present (ozone only until 2009)

Enhanced data grouping and graphing

Useful for multi-year analysis

Navigator GIS (1 of 11)

The screenshot displays the AIRNOW TECH Navigator GIS web application. The interface includes a top navigation bar with the AIRNOW TECH logo and a menu with links: Home, Agencies, Sites, Navigator (highlighted), Data, Forecasts, Polling, Notifier, and Resources. A user greeting "Welcome, Neal Conatser!" and links for "My Account" and "Sign Out" are also present.

Below the navigation bar is a toolbar with icons for map navigation and information. The main map area shows a map of North America with numerous blue cross markers representing monitoring sites. A scale bar at the bottom left indicates a distance of 923 miles.

On the left side, there is a "Tools" panel with tabs for "Tools", "Tool Options", and "Site Info". The "Tools" tab is active, showing options for "Data Mode" (Site Map, Hourly Data), "Map Size" (Small, Medium, Large), and "Default Map" (Set as Default Map, Clear Default Map, Go to Default Map).

On the right side, there is a "Filter Sites" panel with tabs for "Options", "Layers", and "Legend". The "Options" tab is active, showing filters for "Parameter" (All), "Agency" (All), "Map Domain" (All), "Status" (Active), and "AQS Code" (All). Below these filters is a "Site Label" section with a dropdown menu set to "Site Name". An "Apply Changes" button is located at the bottom right of the filter panel.

Navigator GIS (2 of 11)

The screenshot displays the AIRNOW TECH Navigator GIS web application. The interface includes a top navigation bar with links for Home, Agencies, Sites, Navigator (selected), Data, Forecasts, Polling, Notifier, and Resources. A user greeting "Welcome, Neal Conatser!" and links for "My Account" and "Sign Out" are visible. The left sidebar contains tool options: Data Mode (Site Map selected, Hourly Data), Map Size (Small, Medium selected, Large), and Default Map (Set as Default Map, Clear Default Map, Go to Default Map). The main map area shows a map of Southern Nevada with various monitoring sites marked with triangles and labels: Apex, Joe Neal, Lone Mountain, Craig Road KLSV, J. D. Smith, KVG, Palo Verde, Alter Johnson, Sunrise Acres, Paul Meyer, Orr, East Sahara, KLAS NEVADA, Green Valley, Southeast Valley, KHND, and Boulder City. A scale bar at the bottom left indicates 0 to 8 miles. The right sidebar contains filter options: Filter Sites (Parameter: All, Agency: All, Map Domain: All, Status: Active, AQS Code: All), Site Label (Site Name), and an Apply Changes button. Annotations with red arrows point to the "Site Map" option in the Data Mode section, the "Paul Meyer" site on the map, and the "KHND" site on the map.

Site locations with optional site label

Air quality monitoring site

NWS site

Navigator GIS (3 of 11)

The screenshot displays the AIRNOW TECH Navigator GIS web application. The interface includes a top navigation bar with links: Home, Agencies, Sites, **Navigator**, Data, Forecasts, Polling, Notifier, and Resources. A user greeting "Welcome, Neal Conatser!" and links for "My Account" and "Sign Out" are visible. The left sidebar contains a "Tools" section with "Tool Options" and "Site Info" tabs. Under "Tool Options", there are expandable sections for "Data Mode" (with "Site Map" and "Hourly Data" options), "Map Size" (with "Small", "Medium", and "Large" options), and "Default Map" (with "Set as Default Map", "Clear Default Map", and "Go to Default Map" options). The main map area shows a map of Nevada with several monitoring sites marked by green dots and labeled with numbers: 6, 3, 8, 3, 39, 10, and 15. A red line indicates a route through the state. A scale bar at the bottom left shows "0" to "8mi". On the right side, there are three tabs: "Options", "Layers", and "Legend". The "Options" tab is active, showing "Select Data" (with "Air Quality Parameter" set to "PM2.5 (UG/M3)" and "Meteorology Parameter" set to "None"), "Time Select" (with "Date" set to "7/13/2006" and "Hour" set to "15" PST), and "Advance Hour" (with buttons for "-24", "-8", "-1", "+1", "+8", and "+24"). An "Apply Changes" button is at the bottom right. Two yellow callout boxes with red arrows point to specific features: one points to the "Hourly Data" option in the "Data Mode" section, and the other points to the "PM2.5 (UG/M3)" selection in the "Select Data" section.

Monitor data with labels

Selected PM_{2.5} hourly data

Navigator GIS (4 of 11)

The screenshot displays the AIRNOW TECH Navigator GIS web application. The interface includes a top navigation bar with links for Home, Agencies, Sites, Navigator (highlighted), Data, Forecasts, Polling, Notifier, and Resources. A user greeting 'Welcome, Neal Conatser!' and links for 'My Account' and 'Sign Out' are also present. On the left, a 'Tools' panel offers options for Data Mode (Site Map, Hourly Data), Map Size (Small, Medium, Large), and Default Map (Set as Default Map, Clear Default Map, Go to Default Map). The central map area shows a geographical view of Nevada with major cities like Las Vegas, Henderson, and Boulder City, and highways 93 and 215. A yellow callout box with a red arrow points to the 'Select Data' panel on the right. This panel has tabs for Options, Layers, and Legend. Under the 'Select Data' tab, there are two sections: 'Air Quality Parameter' with a dropdown set to 'PM2.5 (UG/M3)' and 'Meteorology Parameter' with a dropdown menu open showing a list of options. The 'WIND (BARBS)' option is highlighted. An 'Apply Changes' button is located at the bottom right of the panel.

Navigator Welcome, Neal Conatser! [My Account](#) [Sign Out](#)

[Home](#) [Agencies](#) [Sites](#) [Navigator](#) [Data](#) [Forecasts](#) [Polling](#) [Notifier](#) [Resources](#)

Tools **Tool Options** **Site Info**

- Data Mode
 - Site Map
 - Hourly Data
- Map Size
 - Small
 - Medium
 - Large
- Default Map
 - Set as Default Map
 - Clear Default Map
 - Go to Default Map

Select Data

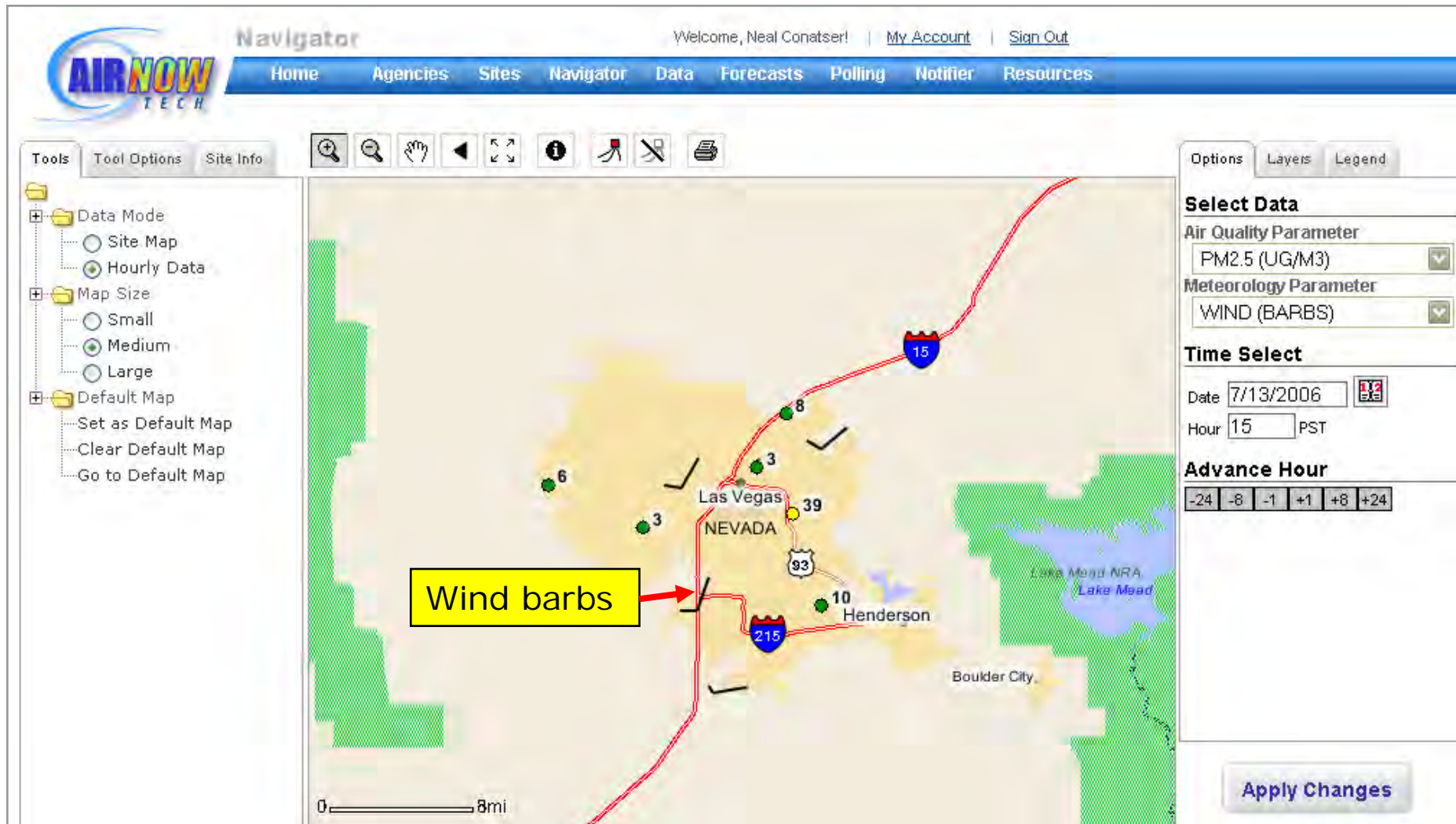
Air Quality Parameter
PM2.5 (UG/M3)

Meteorology Parameter
None
WIND (BARBS)
TEMP (C)
RHUM (PERCENT)
BARPR (MILLIBAR)
SRAD (WATTS/M2)
PRECIP (MM)
DEWPOINT (C)
VISIBILITY (KM)

Apply Changes

View one of seven meteorological parameters from both NWS and air quality agencies

Navigator GIS (5 of 11)



Navigator GIS (6 of 11)

The screenshot displays the Navigator GIS web application interface. The top navigation bar includes links for Home, Agencies, Sites, Navigator (highlighted), Data, Forecasts, Polling, Notifier, and Resources. The user is logged in as Neal Conatser.

Tools | **Tool Options** | **Site Info**

Trajectory Parameters

- Hours:** 24hr Forward
- Heights (m agl):**
 - 1. 500
 - 2.
 - 3.
- Label:** (Only appears when map scale is less than 22 mi)
 - ☐ Hour
 - ☐ Height (m agl)
 - ☐ Pressure (mb)
 - ☒ None
- Source:**
 - NOAA HYSPLIT model
 - NAMNDAS models (40km)
 - Most Recent: 13 Jul 2006 12Z
 - Model vertical velocity

Map: A map of Las Vegas, Nevada, showing the trajectory of a pollutant. The trajectory is a red line starting from the southwest and moving towards the northeast, passing through Henderson and Lake Mead. The map includes a scale bar (0 to 8 miles) and a north arrow.

Run backward and forward HYSPLIT trajectories

Input trajectory parameters

Options | **Layers** | **Legend**

Select Data

- Air Quality Parameter:** PM2.5 (UG/M3)
- Meteorology Parameter:** WIND (BARBS)

Time Select

Date: 7/13/2006
Hour: 15 PST

Advance Hour

-24 -8 -1 +1 +8 +24

Apply Changes

Navigator GIS (7 of 11)

AIRNOW TECH Navigator

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Tools Tool Options Site Info

Trajectory Parameters

Hours
12hr Backward

Heights (m agl)
1. 500
2.
3.

Label
(Only appears when map scale is less than 22 mi)
☒ Hour
☐ Height (m agl)
☐ Pressure (mb)
☐ None

Source:
[NOAA HYSPLIT model](#)
NAMNDAS models (40km)
Most Recent: 13 Jul 2006 12Z
Model vertical velocity

Backward trajectory with optional labels

7/13 21Z 8mi

Las Vegas NEVADA Henderson Boulder City Lake Mead NRA Lake Mead

7/13 22Z 7/13 23Z

Select Data

Air Quality Parameter
PM2.5 (UG/M3)

Meteorology Parameter
WIND (BARBS)

Time Select

Date 7/13/2006
Hour 15 PST

Advance Hour
-24 -8 -1 +1 +8 +24

Apply Changes

Navigator GIS (8 of 11)

AIRNOW TECH Navigator

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Tools **Tool Options** **Site Info**

Trajectory Parameters

Hours: 12hr Backward

Heights (m agl):

- 500
-
-

Label (Only appears when map scale is less than 22 mi):

- ☒ Hour
- ☐ Height (m agl)
- ☐ Pressure (mb)
- ☐ None

Source: NOAA HYSPLIT model
NAMNDAS models (40km)
Most Recent: 13 Jul 2006 12Z
Model vertical velocity

Select Data

Air Quality Parameter: PM2.5 (UG/M3)

Meteorology Parameter: WIND (BARBS)

Time Select

Date: 7/13/2006

Hour: 14 PST

Advance Hour

-24 -8 -1 +1 +8 +24

Apply Changes

The location of the trajectory parcel moves every hour

Go to a previous hour or day

Navigator GIS (9 of 11)

The screenshot displays the AIRNOW TECH Navigator GIS web application. The interface includes a top navigation bar with links for Home, Agencies, Sites, Navigator (highlighted), Data, Forecasts, Polling, Notifier, and Resources. A user greeting "Welcome, Neal Conatser!" and links for "My Account" and "Sign Out" are visible. The main map area shows a geographical region with various data points and a trajectory line. A yellow callout box with a red arrow points to the magnifying glass icon in the toolbar, with the text: "Use the magnifying glass zoom out tool to view a larger scale regional map".

Tools | **Tool Options** | **Site Info**

Trajectory Parameters

Hours: 12hr Backward

Heights (m agl):

- 500
-
-

Label (Only appears when map scale is less than 22 mi)

- ☒ Hour
- ☐ Height (m agl)
- ☐ Pressure (mb)
- ☐ None

Source: NOAA HYSPLIT model
NAMNDAS models (40km)
Most Recent: 26 Oct 2006 00Z
Model vertical velocity

Select Data

Air Quality Parameter: PM2.5 (UG/M3)

Meteorology Parameter: WIND (BARBS)

Time Select

Date: 7/13/2006

Hour: 14 PST

Advance Hour

-24 -8 -1 +1 +8 +24

Apply Changes

Navigator GIS (10 of 11)

Navigator Welcome, Forecasters at Sonoma Technology! | [My Account](#) | [Sign Out](#)

Home Agencies Sites Navigator Data Forecasts Polling Notifier Resources

Tools Tool Options Site Info

Layers Options Legend

Fires

- ☐ WFABBA Fire Locatio
- ☐ HMS Fire Locations
- ☐ HMS Smoke Plumes

Political

- ☒ Counties
- ☐ RPOs
- ☒ Tribal Lands

Urban

- ☒ Cities & Towns
- ☒ Urban Areas
- ☐ CBSAs
- ☐ Population Density

Transportation

- ☒ Interstate
- ☒ Major Roads
- ☒ Airports
- ☒ Railroads

Natural

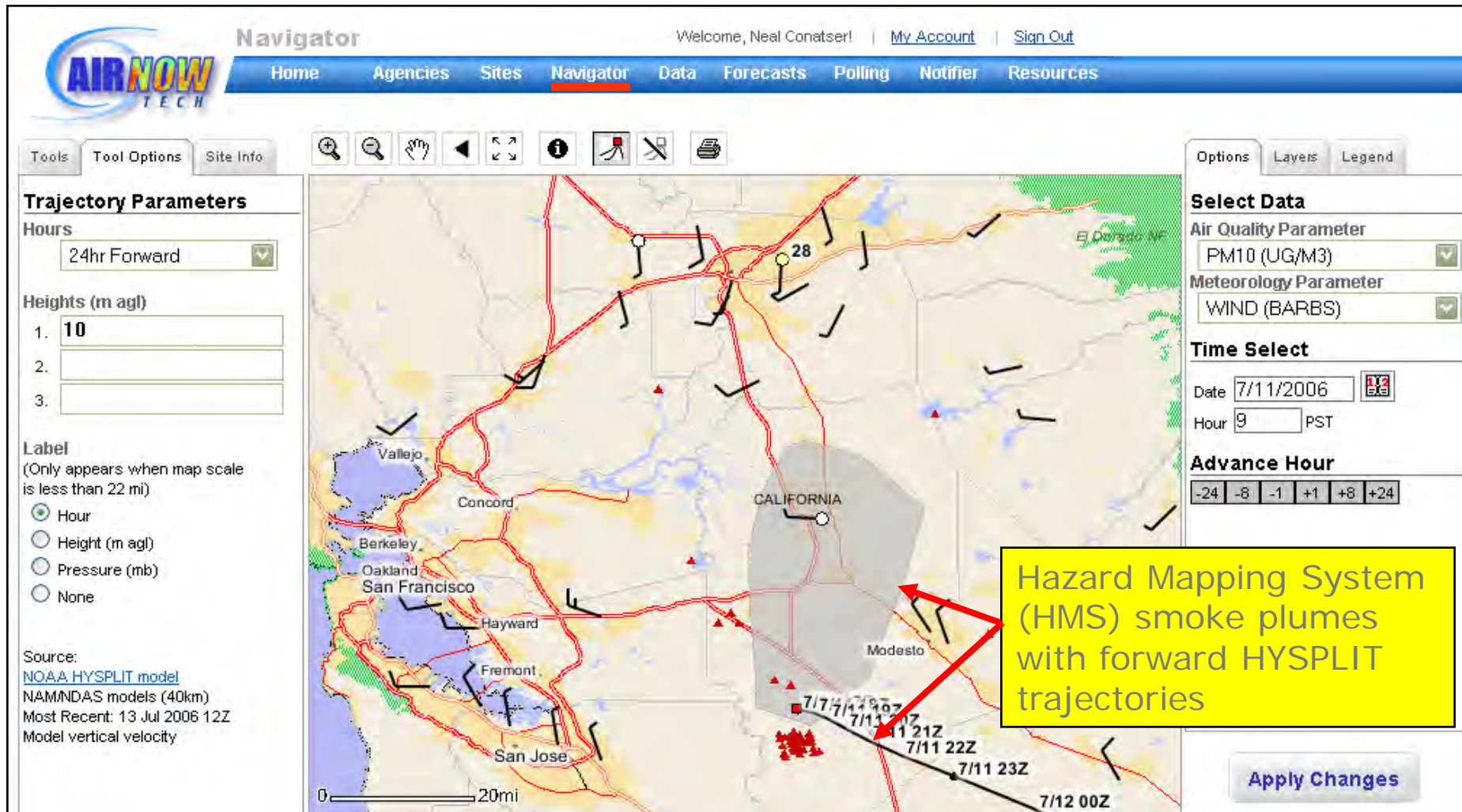
- ☒ Waterways
- ☒ Parks

Apply Changes

0 84mi

Use the Layers tab to add map layers, including tribal lands

Navigator GIS (10 of 11)



My Account (1 of 4)

Home Welcome, AIRNow Tech User! [My Account](#) [Sign Out](#)

Home Agencies Sites Navigator Data Forecasts Polling Notifier Resources

News and Events

2007 National Air Quality Conference - Call for Speakers and Posters

The 2007 National Air Quality Conference, sponsored by the EPA, the State and Territorial Air Pollution Program Administrators, and the Association of Local Air Pollution Control Officials (STAPPA/ALAPCO), will be held February 11-14 in Orlando, Florida. Please visit the following website for more information on how you can be a part of the conference!

LINK: <http://www.epa.gov/airnow/2007conference/call-speakers2.html>

Posted October 4, 2006, 10:37 (PT)

Did you know? Tip 2

How can I tell if a monitor is reporting suspect data?

When an observation (OBS) file is received from an agency, each hourly measurement is compared against a set of QC criteria. These criteria help identify potentially erroneous measurements.

Measurements violating one or more QC criteria are reviewed by an AIRNow operator, after which data is either confirmed, invalidated, or marked as suspect. Invalidated data are marked as error in the AIRNow database and are assigned a value of -99. Suspect measurements are neither used to calculate the AQI nor to produce AIRNow maps or related information. In order to prevent viewing what would otherwise be an indication of real-time air quality.

How can you tell if a monitor has reported data via the AIRNow system? Sign up for and view the "Agency Daily" email. You can also visit the My Account page in AIRNow-Tech. Go to the My Account page in AIRNow-Tech. Go to the My Account page in AIRNow-Tech. Go to the My Account page in AIRNow-Tech.

Posted October 18, 2006, 12:25 (PT)

My Agency's Forecasts

Issue Date: 10/20/2006

City	Today	Tomorrow	Action Day
Atlanta	PM2.5	PM2.5	

My Agency's Realtime Observed

	Ozone	PM _{2.5}	PM ₁₀
Yesterday	36	86	47
Max Today	30	74	45
Current	30	21	45

My Agency's Polling Summary

Agency	Ozone	PM _{2.5}	PM ₁₀
GA1	10/20 16:00	10/20 16:00	10/20 15:00

Polling Summary

Color Legend

Green = Current Yellow = 2 to 6 hrs old

Agency	Ozone	PM _{2.5}	PM ₁₀
AZ1	10/20 16:00	10/20 16:00	10/20 16:00
AZ2	10/20 16:00	10/20 16:00	10/20 16:00

My Account Welcome, AIRNow Tech User! [My Account](#) [Sign Out](#)

Home Agencies Sites Navigator Data Forecasts Polling Notifier Resources

[Agencies](#) > [Arkansas Dept. of Environmental Quality](#) > AIRNow Tech User

Arkansas Dept. of Environmental Quality

First Name: AIRNow Tech Phone: 000-000-0000 Fax: n/a

Last Name: User Address 1: n/a

Address: aimnowtech.user@gmail.com Address 2: n/a

Login: Your Username City: n/a

Password: Password: n/a State: n/a Zip: n/a

Verify Password: Password: n/a Country: USA

Contacts: Agency ☒ Forecast ☒

Notifications: Agency Daily: ☒ Forecast Daily: ☒
Agency Hourly: ☒

[Save](#) [Delete](#)

Home Page Preferences

☒ My Agency's Forecasts
☒ My Agency's Realtime Observed
☒ My Agency's Polling Summary

[Save](#)

Site List Management

[New](#)

Report [New](#)

Site List

Agency

Interval

Total: 11 sites

Home Page Preferences

- ☒ My Agency's Forecasts
- ☒ My Agency's Realtime Observed
- ☒ My Agency's Polling Summary

My Account (2 of 4)

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[Home](#) [Agencies](#) [Sites](#) [Navigator](#) [Data](#) [Forecasts](#) [Polling](#) [Notifier](#) [Resources](#)

[Agencies](#) > [Arkansas Dept. of Environmental Quality](#) > AIRNow Tech User

Arkansas Dept. of Environmental Quality

First Name: AIRNow Tech Phone: 000-000-0000 Fax: n/a
Last Name: User Address 1: n/a
E-mail Address: aimowtech.user@gmail.com Address 2: n/a
Login: Your Username City: n/a
Password: n/a State: n/a Zip: n/a
USA

Agency ☒ Forecast ☒

Agency Daily: ☒ Forecast Daily: ☒
Agency Hourly: ☒

Management

Select a Report
Select a Sitelist
Choose a query
Time Interval: Select an interval


Contacts: Agency ☒ Forecast ☒

Notifications: Agency Daily: ☒ Forecast Daily: ☒
Agency Hourly: ☒

050350006 - Clarkdale
050350007 - Earle
050970001 - ODEN
051010002 - DEER
051130003 - EAGLEMT
051190007 - PARR
051191002 - NLRAP
051191005 - ADEQ-45
051390006 - El Dorado
051430004 - FAYETTEVILLE

Total: 11 sites

My Account (3 of 4)

**My Account**

Welcome, AIRNow Tech User! | [My Account](#) | [Sign Out](#)

[Home](#) | [Agencies](#) | [Sites](#) | [Navigator](#) | [Data](#) | [Forecasts](#) | [Polling](#) | [Notifier](#) | [Resources](#)

[Agencies](#) > [Arkansas Dept. of Environmental Quality](#) > AIRNow Tech User

Arkansas Dept. of Environmental Quality

First Name: AIRNow Tech Phone: 000-000-0000 Fax: n/a

Last Name: User

E-mail Address: airnowtec

Login: Your User

Password: *****

Verify Password: *****

Home Page Preferences

Site List Management

Arkansas - All

050350005 - MARION
050350006 - Clarkdale
050350007 - Earle
050970001 - ODEN
051010002 - DEER
051130003 - EAGLEMT
051190007 - PARR
051191002 - NLRAP
051191005 - ADEQ-45
051390006 - El Dorado
051430004 - FAYETTEVILLE

Total: 11 sites

My Account (4 of 4)

My Account Welcome, AIRNow Tech User! [My Account](#) [Sign Out](#)

[Home](#) [Agencies](#) [Sites](#) [Navigator](#) [Data](#) [Forecasts](#) [Polling](#) [Notifier](#) [Resources](#)

[Agencies](#) > [Arkansas Dept. of Environmental Quality](#) > AIRNow Tech User

Arkansas Dept. of Environmental Quality

First Name: AIRNow Tech Phone: 000-000-0000 Fax: n/a
Last Name: User Address 1: n/a
E-mail Address: aimowtech.user@gmail.com Address 2: n/a
Login: Your Username City: n/a
Password: **** State: n/a Zip: n/a

Email Report Management

Report Name: **Weekly Ozone Exceedances** [Edit](#)
Site List: Michigan Ozone
Query: Ozone: Days Above 100 AQI
Time Interval: Weekly
[Save](#) [Delete](#)

[Forecast](#) ☒
[Forecast Daily](#) ☒
[Agency Hourly](#) ☒
[Save](#) [Delete](#)

Management
[Select a Report](#) [New](#)
[Select a Sitelist](#)
[Select a query](#)
Time Interval: [Select an interval](#)
[Save](#) [Delete](#)

050350007 - Earle
050070001 - ODEN
051010002 - BEER
051130003 - EAGLEMT
051190007 - PARR
051191002 - NLRAP
051191005 - ADEQ-45
051390006 - El Dorado
051430004 - FAYETTEVILLE

Total: 11 sites

Resources

The AIRNow-Tech Resources page has

- Tutorial videos
- Manuals and Instructions
- Data formats and processing details
- Links and other useful information



The screenshot shows the AIRNow-Tech Resources page. At the top, there is a navigation bar with the AIRNow-Tech logo on the left and a menu with links: Home, Agencies, Sites, Navigator, Data, Forecasts, Polling, Notifier, and Resources. To the right of the menu, it says "Welcome, AIRNow Tech User!" followed by links for "My Account" and "Sign Out".

The main content area is divided into several sections:

- Contacts**: [AIRNow and DMC contact information](#)
- AIRNow-Tech Tutorial Videos**: [Logging In](#), [Creating Site Lists](#), [Email Report Management on "My Account"](#), [Navigator](#), [Site and Monitor Management](#), [Querying EBAMS data](#), [HYSPLIT Trajectories in Navigator](#)
- Air Quality Forecasting Training Videos**: [Course Introduction](#), [Speaker Introductions](#), [Air Quality Overview](#), [What Controls Air Quality](#), [Why Forecast Air Quality](#), [How to Forecast Air Quality](#), [Meteorology – Temperature](#), [Meteorology – Air Pressure](#), [Meteorology – Water Vapor](#), [Meteorology – Upper Air Pressure](#), [Meteorology – Surface Pressure and Wind](#), [Meteorology – Fronts and Air Masses](#), [Meteorology – Stability](#), [Meteorology – Clouds, Fog, and Precipitation](#), [Meteorology – Weather Cycles](#)
- Manuals/Instructions**: [New GeoEditor Fact Sheet](#), [AIRNow-Tech Release Notes \(June 2006\)](#), [Overview of New AIRNow-Tech Features](#), [Quick Reference for New AIRNow Parameters](#), [AIRNow Forecast Submittal System FTP Instructions and sample file](#), [Description of PM2.5 Site Information Table](#), [Data Management](#)
- New Forecast Submittal System**: [Overview - Fact Sheet Video](#), [Submit Forecast and Discussion - Fact sheet Video](#), [Settings - Fact sheet Video](#), [Query Forecast - Fact sheet Video](#), [Verification - Fact sheet Video](#)
- Enviroflash**: [New Users Start-Up Guide](#), [EnviroFlash - New Customization Features - February 2010](#)
- Data Formats and Processing**: [OBS file documentation and sample file](#), [Control Checks for AIRNow Mapping System](#), [Updated Ozone Slope and Intercepts \(2004 - 2006 AIRNow data\)](#), [EPA 1-hr to 8-hr Ozone Surrogate Report \(1994 - 1996 data\)](#), [EPA PM2.5 Surrogate Report](#), [Polling Performance 2002 \(PowerPoint file\)](#), [Polling Performance 2003-2004 \(PowerPoint file\)](#), [Polling Performance 2004-2005 \(PDF file\)](#), [Polling Performance 2005-2006 \(PDF file\)](#), [Polling Performance 2006 \(PDF file\)](#), [Polling Performance 2008 \(PDF file\)](#), [Polling Performance 2009 \(PDF file\)](#), [AIRNow-I AQCSV Format Specifications Document \(PDF file\)](#)
- Software**: [MapGen - as of 7/26/02 \(about 22 MB\)](#)
- Weather Service Provider (WSP) Information**: [Forecast File Fact Sheet](#), [Mapping File Fact Sheet](#), [Contacts](#)

Request an Account

The screenshot displays the AIRNow-Tech website interface. At the top left is the AIRNow-Tech logo. A blue navigation bar contains links for Home, Agencies, Sites, Navigator, and Data. Below the navigation bar, on the left, is a login section with the text "Please log in to use AIRNow-Tech". It includes input fields for "Username:" and "Password:", a "Log In" button, and a "Forgot your" link. A red circle highlights the "Request an AIRNow-Tech Account" link below the login section. An arrow points from this link to a pop-up window titled "Request an AIRNow-Tech Account". This window contains a form with the following fields: "First Name*", "Last Name*", "Login Name*", "E-mail Address*", "Phone*", and "Comment:". Each of these fields has a corresponding yellow input box. Below these is a "Agency*" dropdown menu with the text "(Select Agency)" and a small icon. A "Send Request" button is at the bottom of the form. A legend at the bottom left of the pop-up indicates that "*" denotes "Required".

www.airnowtech.org

Contacts

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dianne@sonomatech.com