

AirNow & AirNow-Tech

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for the
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Atlanta, GA

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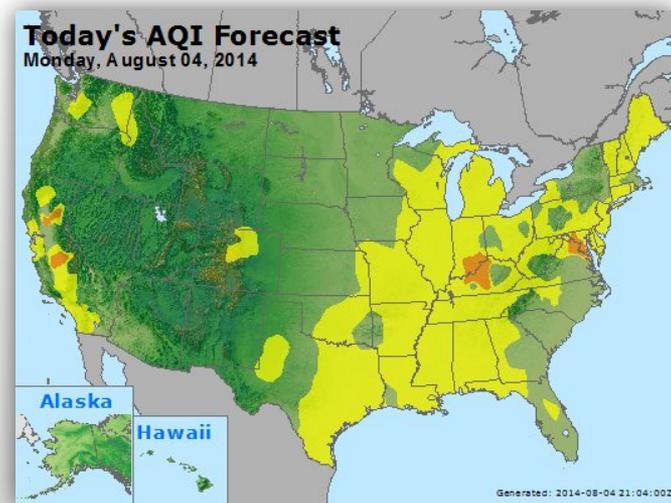
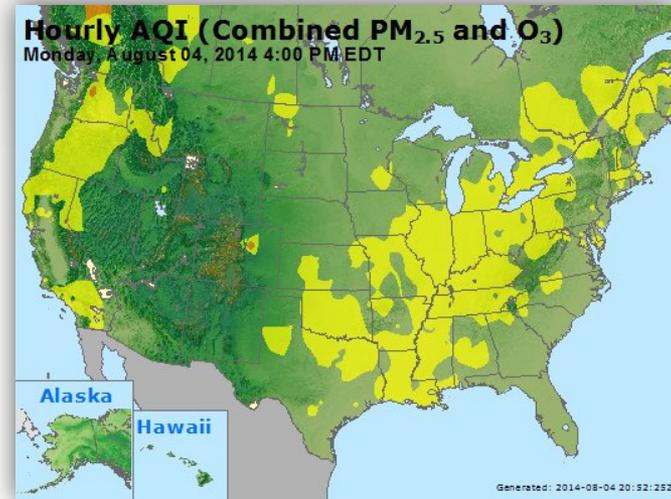
Sonoma Technology, Inc.

Outline

- History of AirNow
- About AirNow
- AirNow Goals
- AirNow Community
- AirNow Tools
- AirNow-Tech

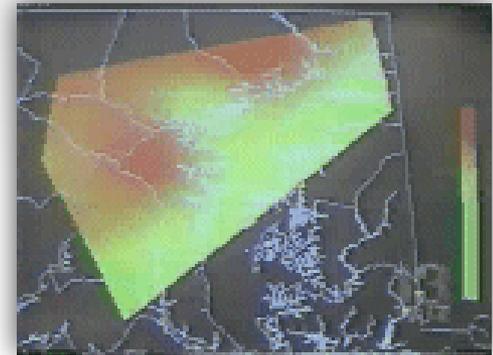
Later

- Demonstration of AirNow-Tech
- Group Exercises



History of AirNow

- Roots of AirNow started in northeastern U.S.
 - 1995 – American Lung Association of Maryland created a daily ozone map
 - 1997 – Consortium of northeastern states produced maps of ozone using the Pollutant Standard Index
 - 1998 – EPA began operating the hub portion of the system and called it AirNow
 - 1998-2008 – Coverage expanded and timeliness of data and product delivery improved
 - 2009 – System architecture overhauled, including new mapping, data software, and website



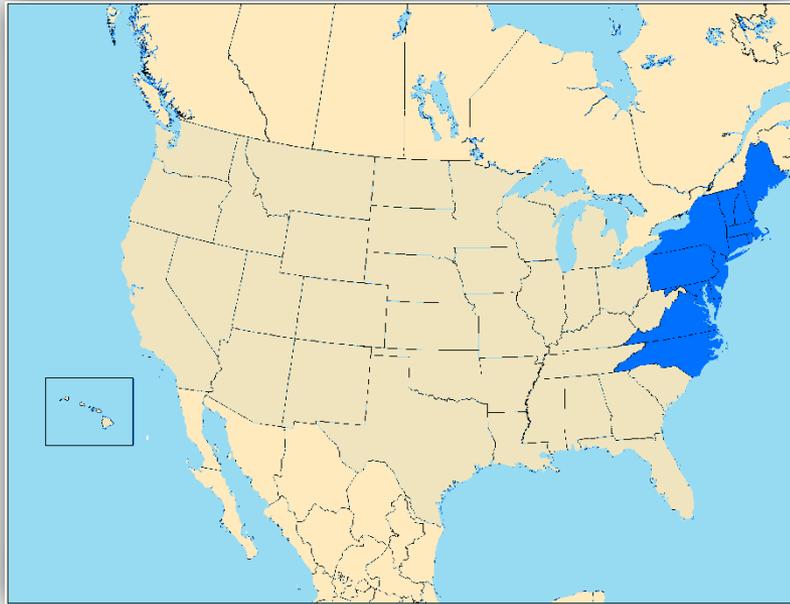
The goals of the US EPA's AIRNOW website are to: 1) provide real-time air pollution data in an understandable, visual format, 2) provide information about the public health and environmental effects of air pollution, 3) provide the public with information about ways in which they can protect their health, and actions they can take to reduce pollution.

This website currently focuses on ground-level ozone (smog). Future plans for this website are to expand the geographic coverage of the current ozone maps and to include other pollutants.

The Ozone Mapping Project is part of EPA's [Environmental Monitoring for Public Access and Community Tracing \(EMPACT\)](#) initiative - a new approach to providing timely environmental information to communities.

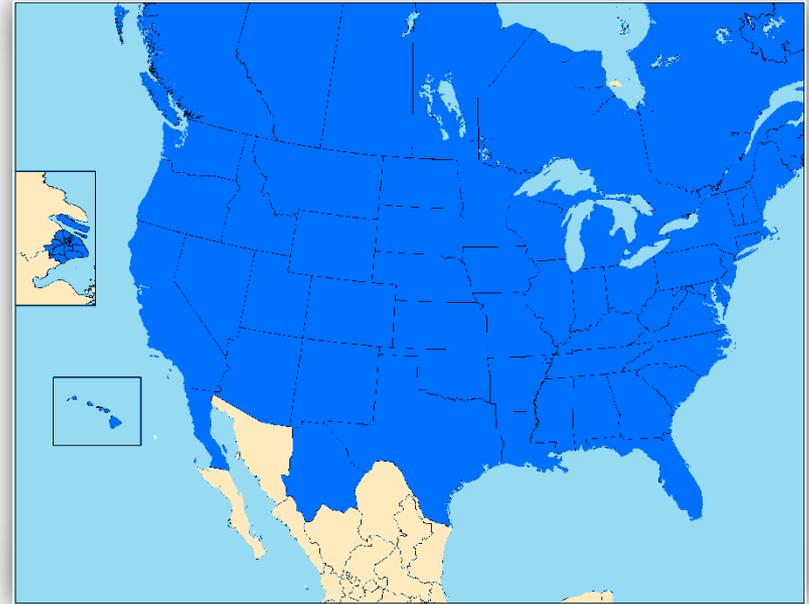
History of AirNow

1997



14 states in the northeastern U.S. in the first year

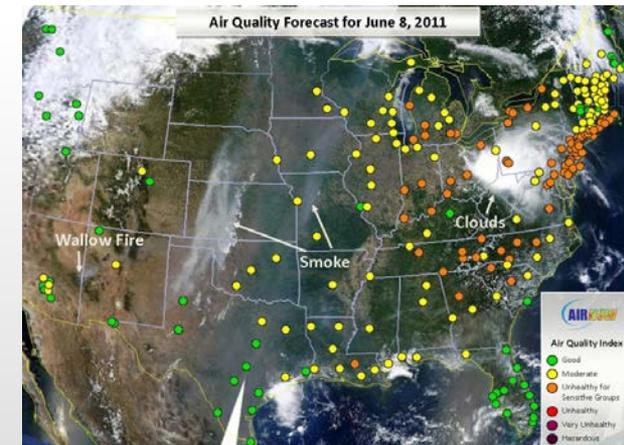
2014



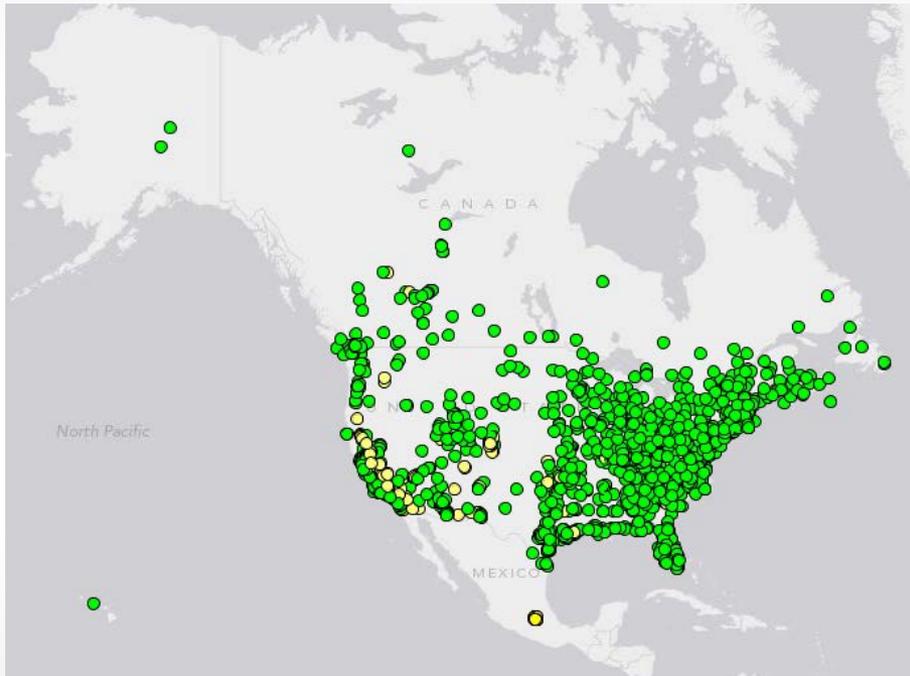
50 U.S. states, Puerto Rico, 10 Canadian provinces, three Mexican states, Shanghai, and Taiwan

About AirNow

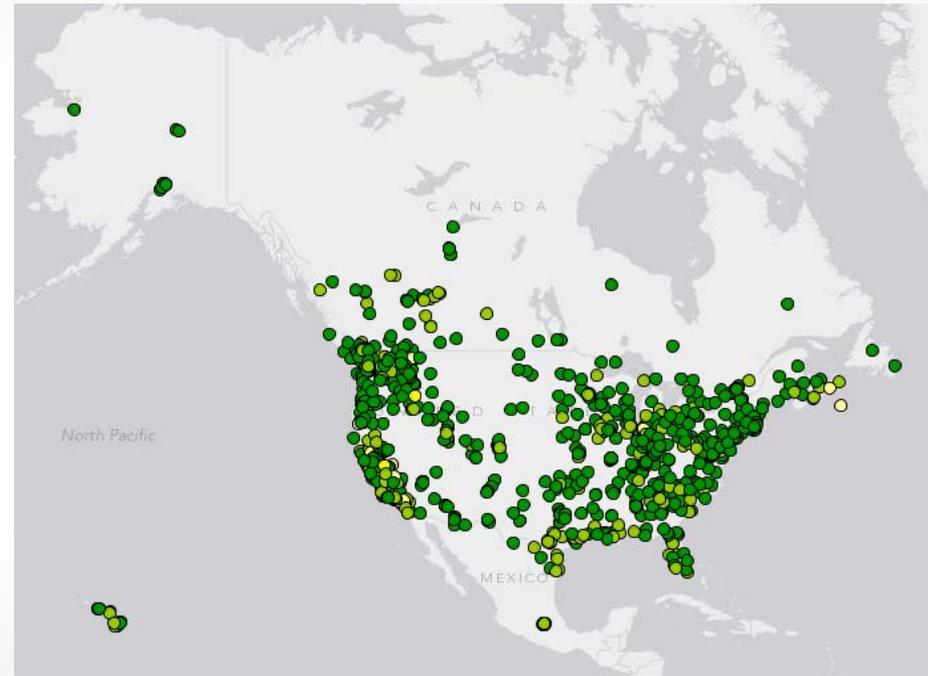
- AirNow provides a common framework for acquiring and distributing air quality information that
 - Fosters community efforts among 275+ tribal, federal, state, and local air quality agencies
 - Collects, quality-assures, and transfers real-time and forecasted air quality information to the public
 - Communicates air quality via the Air Quality Index (AQI)
 - Issues weather/air quality news stories
 - Enables partnerships with national media
 - Provides air quality education and outreach
- America's "go to" resource for current and forecasted air quality information



About AirNow



AirNow Ozone Sites (1600+)

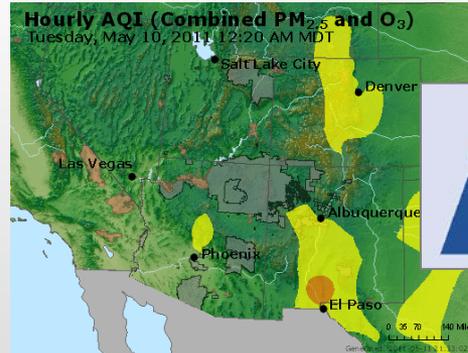
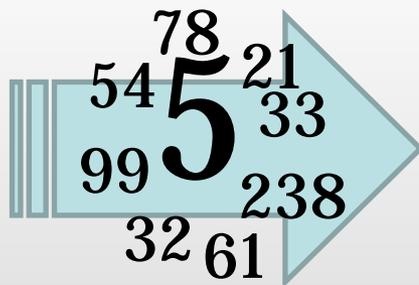


AirNow PM_{2.5} Sites (1300+)

AirNow Goals

Protect public health and promote data exchange by providing

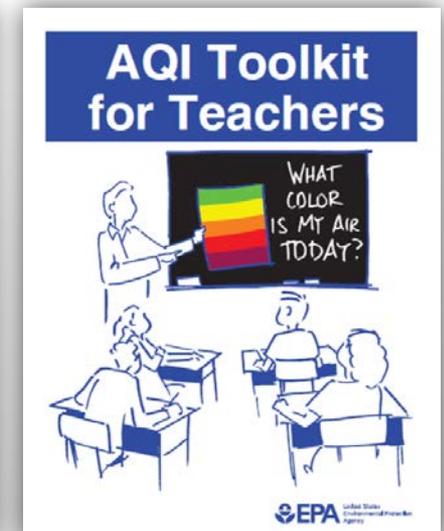
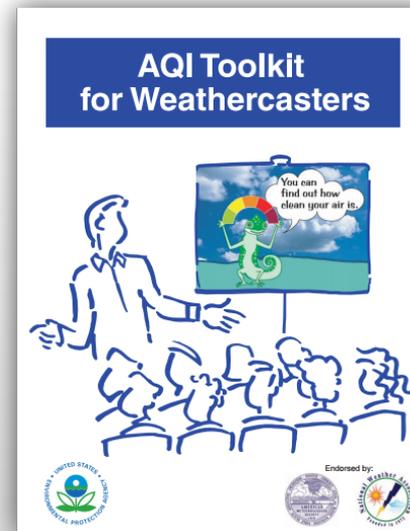
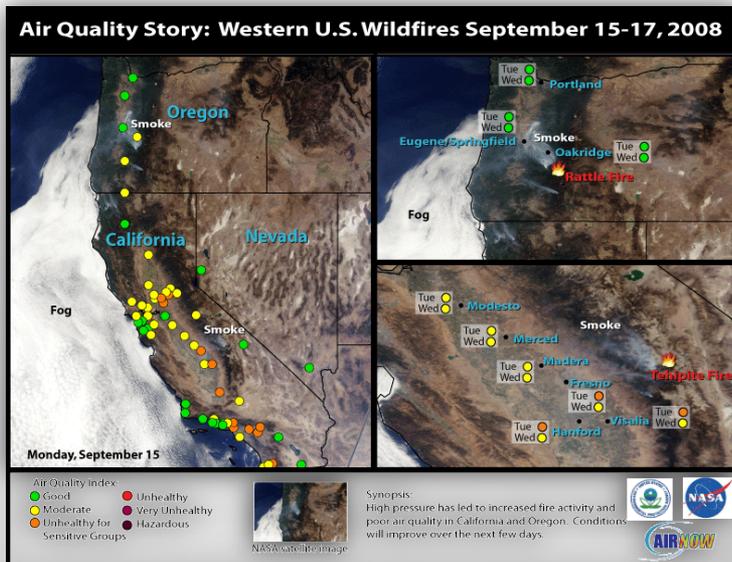
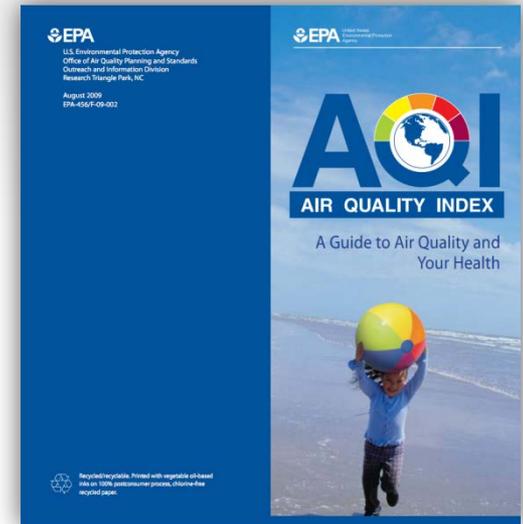
- Technical support and guidance for stakeholders
- High-quality products for health-based decision-making
- Timely and reliable operations
- Flexibility and innovation to meet stakeholders' needs



AirNow Goals

Support the voluntary AirNow community of agencies by

- Providing a central location for stakeholders to share data, forecasts, and expertise
- Educating the media and public to promote appropriate use of AirNow/AQI information

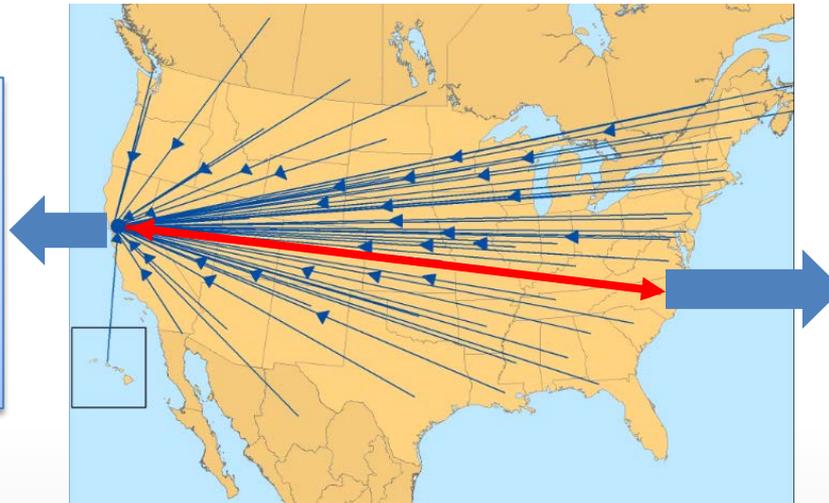


AirNow Community

Data are supplied by agencies throughout North America, processed at the AirNow Data Management Center (DMC), and reported publicly in the AQI.

The AirNow DMC

- Produces AQI maps and files
- Hosts the AirNow API developer tools



The EPA

- Hosts AirNow.gov
- Provides public educational and health messaging



- 130+ agencies
- 2000+ monitoring sites
- 400+ forecast cities
- 2000+ stakeholders and users



AirNow Tools

AirNow Local Air Quality Conditions

Zip Code: Go State: Alabama Go National Summary

Forecast Current AQI More Maps

Today's AQI Forecast
Friday, August 02, 2013

Wildfire Smoke Advisories and Forecasts

Announcements

8/2/13: [Klamath County Air Quality Advisory](#)

7/29/13: DEQ Urges Oregonians to Protect Themselves from Wildfire Smoke [News Release](#)

7/29/13: Oregon wildfires impacting Bay Area air quality. [News Release](#)

[more announcements](#)

Air Quality Basics

[Air Quality Index](#) | [Ozone](#) | [Particle Pollution](#) | [UV](#)
[Smoke from fires](#) | [What You Can Do](#)

Health

Learning Center

Good Moderate USG Unhealthy Very Unhealthy Hazardous Action Day

Apps EnviroFlash Email

AirNow Air Quality Notifications

[Subscribe to EnviroFlash](#) [Manage Your Account](#)

[EnviroFlash Home](#)

[EnviroFlash Challenge](#)

[EnviroFlash Fact Sheet](#) (PDF)
Learn how EnviroFlash works!

Free AIRNow iPhone & Android Apps! [iPhone App](#) | [Android App](#)

[EnviroFlash on Twitter!](#)

[AIRNow RSS Feeds](#)

[EnviroFlash Toolkit](#)
Available to AIRNow partner agencies

[About the Air Quality Index \(AQI\)](#) (PDF)

[Today's National Air Quality Forecast](#)

[Recommend to a friend](#)

[About EnviroFlash](#)

Welcome to EnviroFlash! Air quality affects how you live and breathe. Like the weather, it can change from day to day, or even hour to hour. Up-to-date information allows you to make decisions based on air quality forecasts. EnviroFlash comes to you through a partnership between the US EPA and your state or local air quality agency - notifying you about air quality so you don't have to go searching for it!

Today's Forecast

- Good
- Moderate
- Unhealthy for Sensitive Groups
- Unhealthy
- Very Unhealthy
- Hazardous
- Unavailable

Map data ©2014 Google, INEGI Terms of Use Report a map error

AirNow Developer Tools

Home Web Services Data Feeds File Products FAQ Air Quality 101 Logs

Web Services > Current Observation By Latitude and Longitude

Documentation

Query Tool

1 Latitude: °

Longitude: °

Distance: miles

Format:

Home | Visitor's Tour Guide | About The Site | Who We Are | Download Smog City 2 | Links | Help

Save Smog City 2 From Google!

smog city 2

TEMP 90°
AQI 175

HOW TO USE CONTROLS AND QUALITY INDEX (AQI)

WEATHER

- CLOUDS/SKY COVER
- INVERSION
- TEMP
- TEMPERATURE

EMISSIONS

- ENERGY SOURCES
- CARS AND TRUCKS
- OFF ROAD
- COMBUSTION PRODUCT
- INDUSTRY

POPULATION

- TOTAL EMISSIONS
- BEST
- RANDOM EVENTS

INFORMATION

Click the icons for a description of the weather, emissions, and population controls. Information will appear here. For a description of AQI, particle levels, or ozone levels, click the

GROUND LEVEL AQI: RED

OSONE LEVELS

HEALTHY SENSITIVE

At-risk children and adults, and people with lung disease, such as asthma, should avoid prolonged or heavy

WHAT CAN I DO TO HELP?

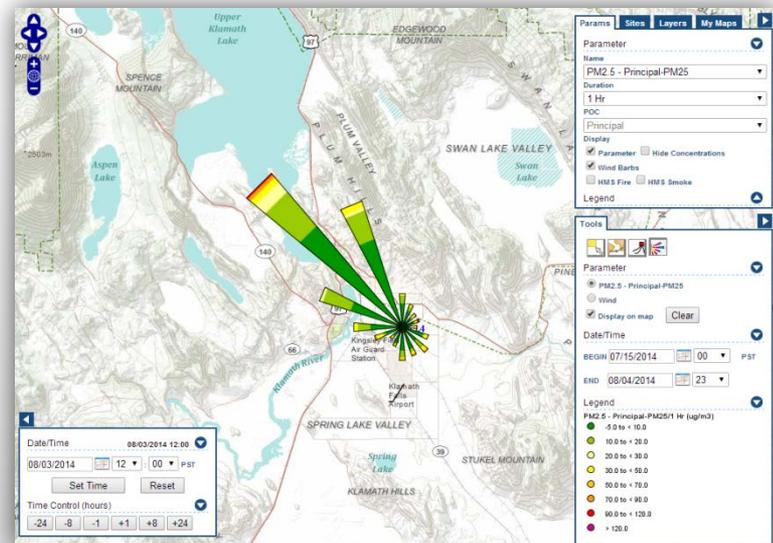
ACTION

Read www.smogcity2.org

AirNow-Tech

www.AirNowTech.org

- Decision support system for state, local, and federal agencies
- Password-protected, customizable, web-based software
- Contains a suite of tools to support analysis, forecasting, and building reports



Contacts

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AirNow Data Management Center

- AirNowInfo@sonomatech.com