

AirNow: Forecaster Focus Group

Brad Johns Phil Dickerson John White September 26,2013



Report of:

Forecast Submittal System Update AirNow Tech Improvements Enviroflash Update ASDP

AirNow Gateway: API

Nowcast: Update



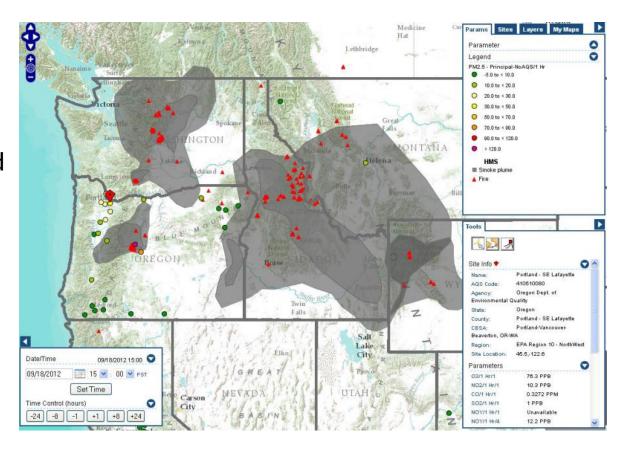
AirNow Forecast Submittal System

No changes this year





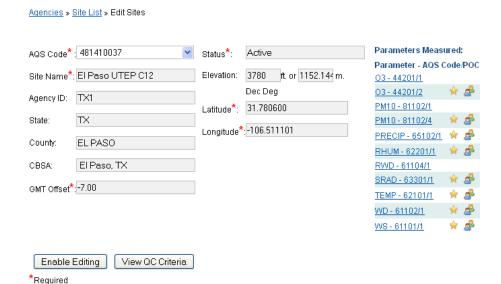
Improvements to Navigator include much faster response times, additional base layers and external overlays, the option to save and access custom maps, and collapsible menus.





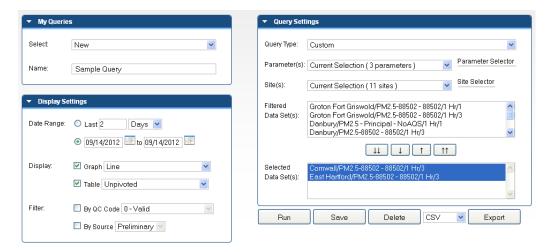
Site Details

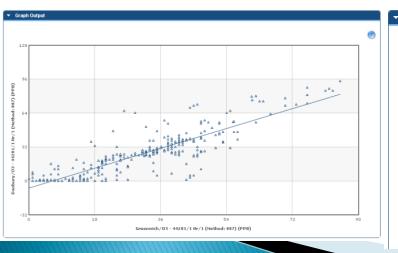
- AQCSV file format
- More than one parameter type
- Principal Parameter





New Data Query features include interactive line graphs, scatterplots, and the choice to view data in pivoted or unpivoted formats. Additionally, custom queries can be saved for future use.

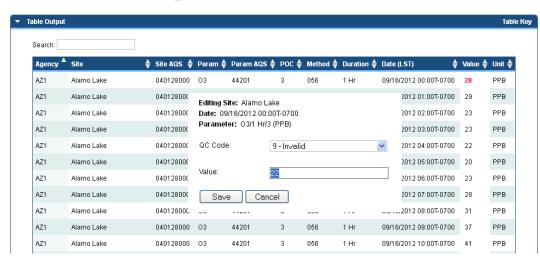


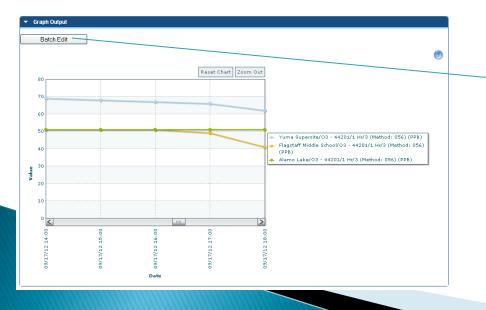






Users with Data Editing privileges can change quality control (QC) flags and data values for their agency's data. Edits can be made by clicking a value cell in the table output or via Batch Edit mode while interacting with a Line Graph





Batch Edit Control of the Control of		
Date Range:	09/17/12 14:00 to 0	19/17/12 18:00
Select the data set(s) to edit:	Yuma Supersite/O3 - 44 Flagstaff Middle School Alamo Lake/O3 - 44201/	/O3 - 44201/1 Hr/3
QC Code: 0 - Valid		
O Apply Bias and Scaling where y=Mx + B		
Starti	ng Value	Ending Value
Bias (B):		
Scale (M):		
● Set Values: ➤ ► 50 to: 50		
O Set Values to:		
Execute Batch Edit Cancel		



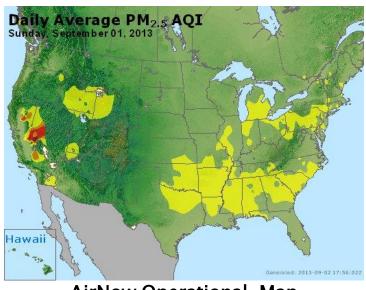
EnviroFlash

- Mobile sign up website
- Updated the style of the admin section
- Automatically confirm subscribers when they sign up
- Changed the email bounce handler
- Added the forecast discussion to the regional forecast emails.
- · Added subscriber groups for manual emails.
- · Added health message tips to emails.
- Made updates to the subscriber
- Added features to the manage subscribers pages.

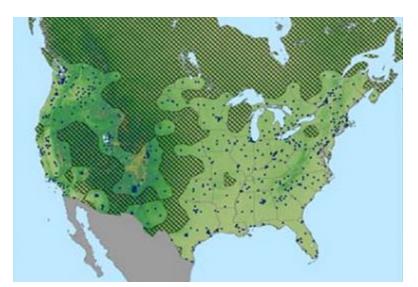




AirNow Satellite Data Processor



AirNow Operational Map (airnow.gov)



Without satellite data, no contouring is possible in the hatched areas

- Improve operational air quality maps currently in AirNow and make them available 24 hrs a day every day
- Provide satellite data products in AirNow–Tech
- Improve tools for air quality forecasting

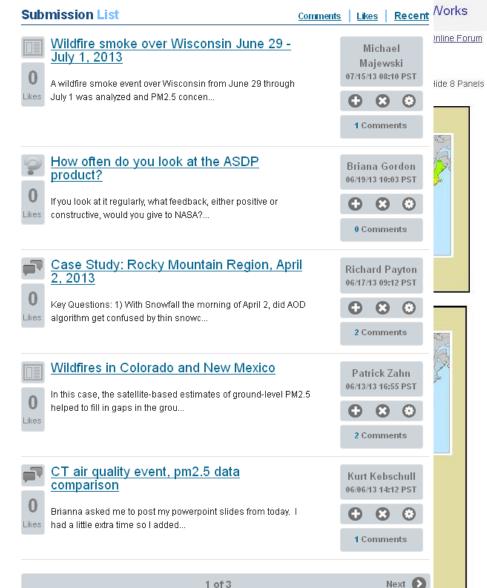




AirNow Satellite Data Processer







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ASDP products ogress)
eport)
public health

SA satellite data

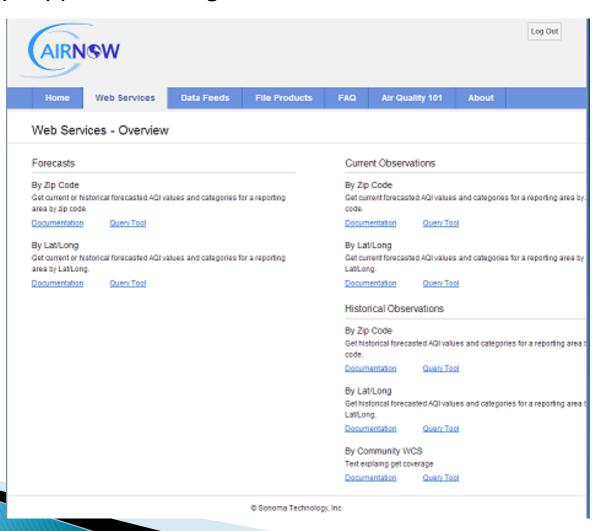
DAA



AirNow Gateway API

AirNow Gateway Application Programmers Interface

Web Services





AirNow Nowcast

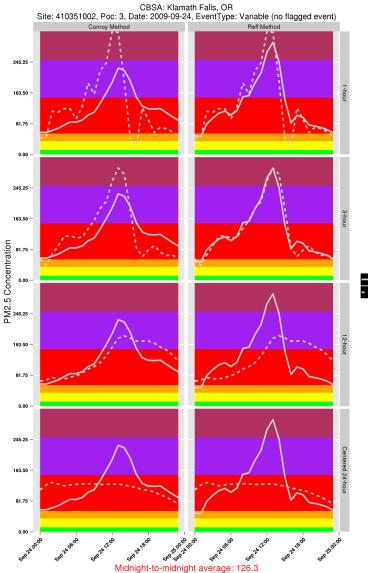
The Nowcast method has been changed to better estimate rapidly changing PM2.5 conditions.

The previous method was the Conroy method that was used to predict the midpoint of a 24 hour average.

The new method, "Reff method", represents a short-term average (target 3-hour) when air quality is changing rapidly



AirNow Nowcast



- This example shows a spike in the middle of the day.
- The Conroy method lags several hours behind the hourly and 3hour data.
- The Reff method tracks the 3-hour average because air quality is changing rapidly.
- Consequently, the Reff method enables us to caution the public sooner.

Questions?

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