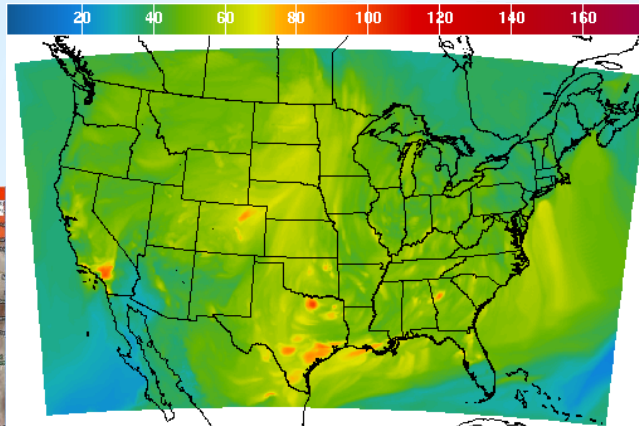
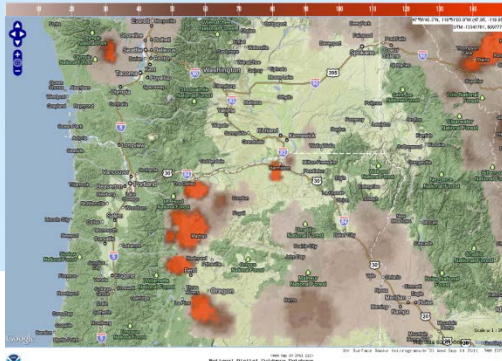


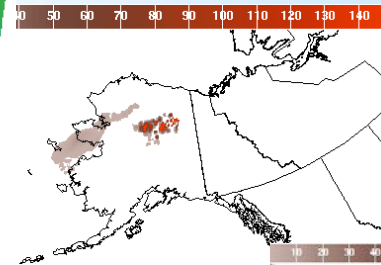
Air Quality Graphical Products

<http://airquality.weather.gov/> | <http://airquality.weather.gov/expr/>



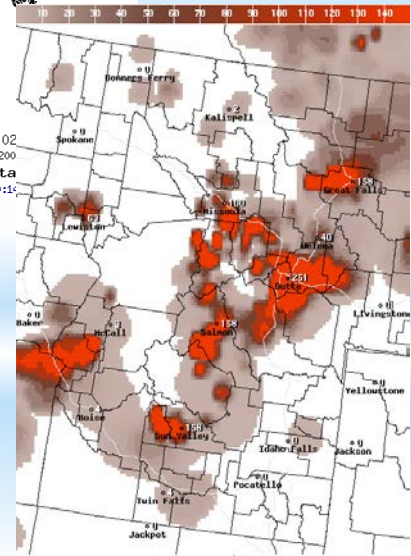
Maximum 1Hr Ozone(PPB) Ending Mon Sep 10 2012 11PM EDT
(Tue Sep 11 2012 03Z)

National Digital Guidance Database
06z model run Graphic created-Sep 10 7:25AM EDT



Smoke (micrograms/m³) Tue Sep 02
(Tue Sep 02 200)

National Digital Guidance Data
06z model run Graphic created-Sep 02 10:15



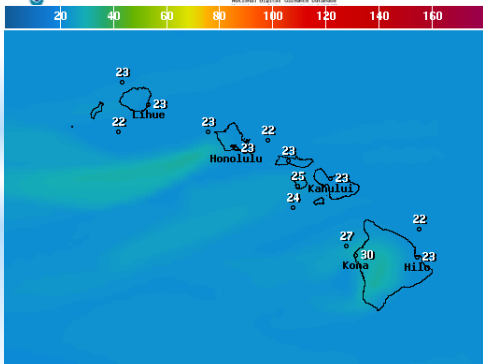
1Hr Surface Smoke (micrograms/m³) Mon Sep 10 2012 9AM EDT
(Mon Sep 10 2012 13Z)

National Digital Guidance Database
06z model run Graphic created-Sep 10 7:18AM EDT

Air Quality Forecaster Focus Group Workshop
September 13, 2012

Marc Saccucci

NWS/OST Meteorological Development Laboratory



Maximum 1Hr Ozone(PPB) Ending Wed Sep 12 2012 12AM EDT
(Wed Sep 12 2012 04Z)

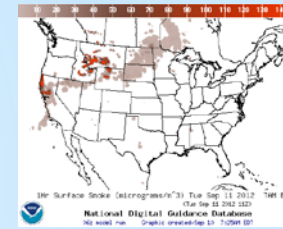
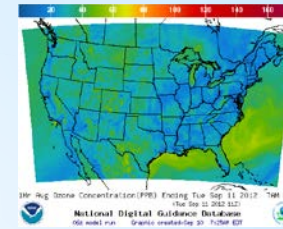
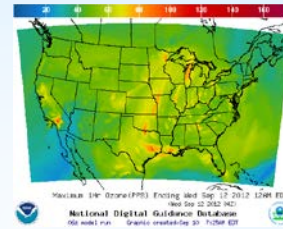
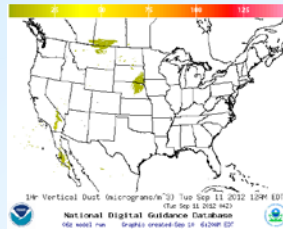
National Digital Guidance Database
06z model run Graphic created-Sep 10 5:15AM EDT



Air Quality Images on the Web

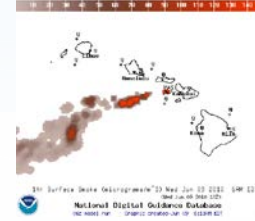
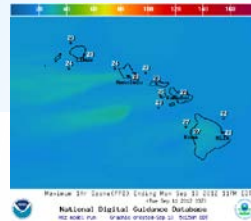
- **CONUS Operational Products**

- 1hr/8hr Average Ozone Concentration
- Maximum 1hr/8hr Ozone Concentration
- 1hr Average Surface Smoke
- 1hr Average Vertical Smoke Integration
- **1hr Surface Dust (Now Operational)**
- **1hr Vertical Dust (Now Operational)**



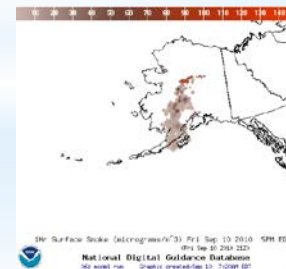
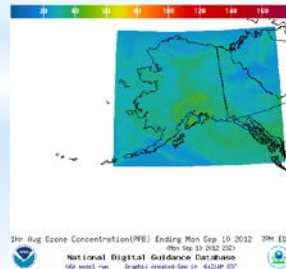
- **Hawaii Operational Products**

- 1hr Average Surface Smoke
- 1hr Average Vertical Smoke Integration
- 1hr/8hr Ozone Concentrations

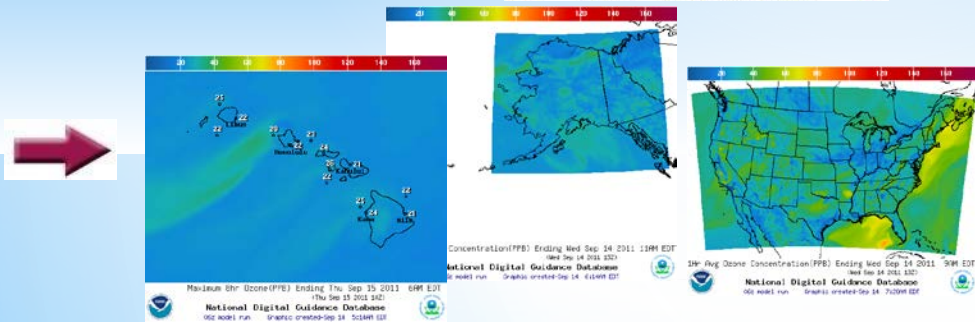
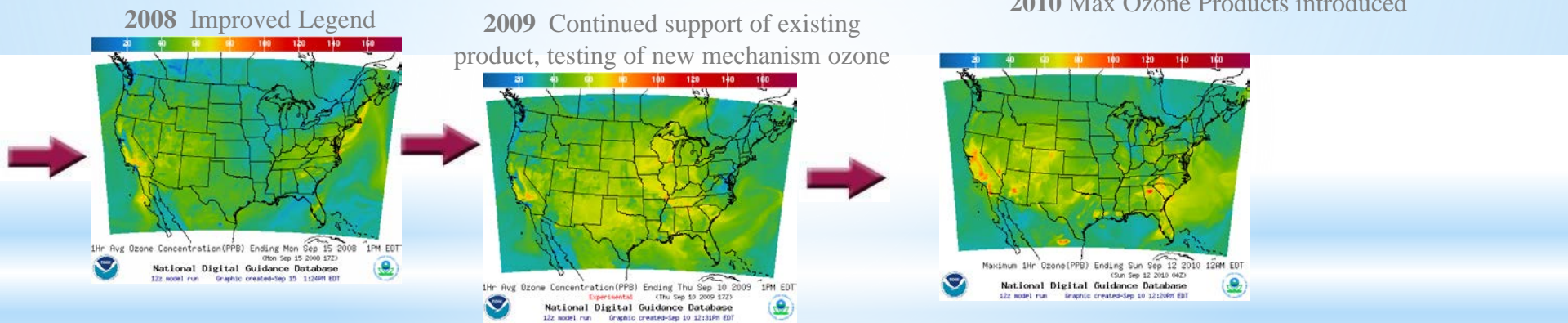
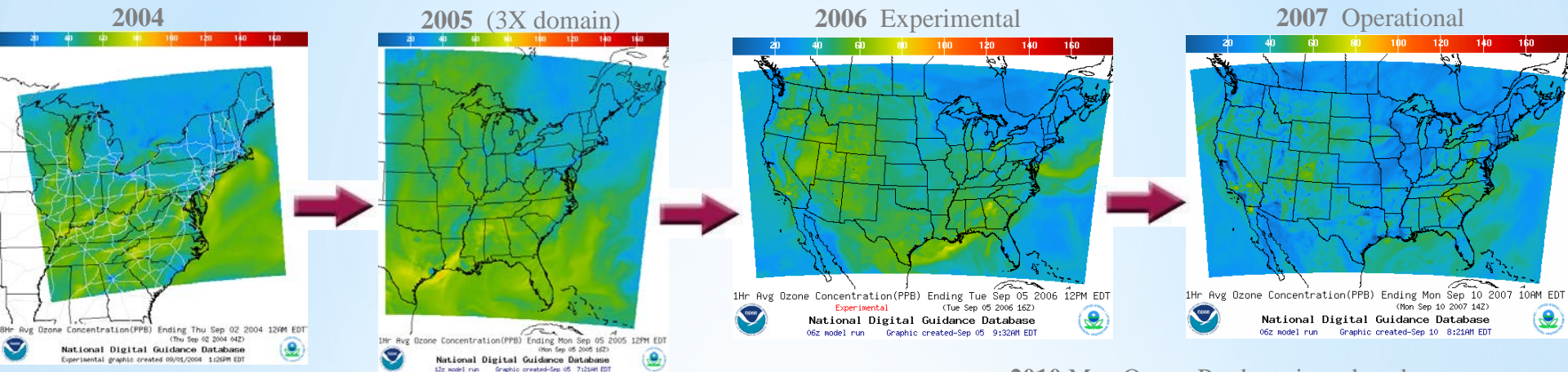


- **Alaska Operational Products**

- 1hr Average Surface Smoke
- 1hr Average Vertical Smoke Integration
- 1hr/8hr Ozone Concentrations

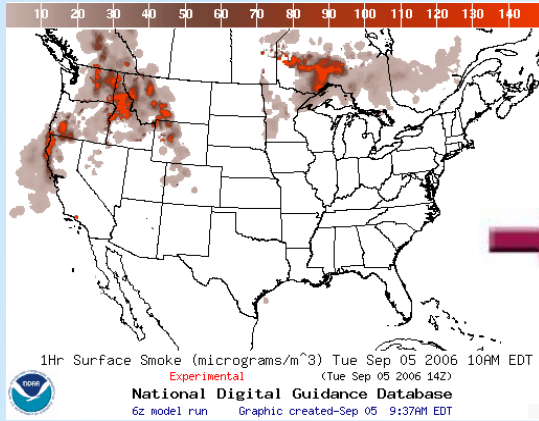


Ozone Online Graphics History

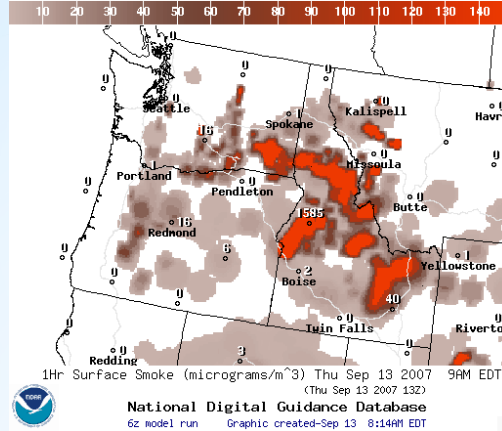


Smoke Online Graphics History

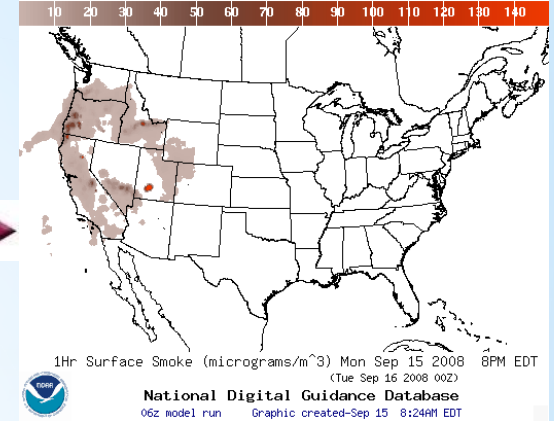
2006 Experimental



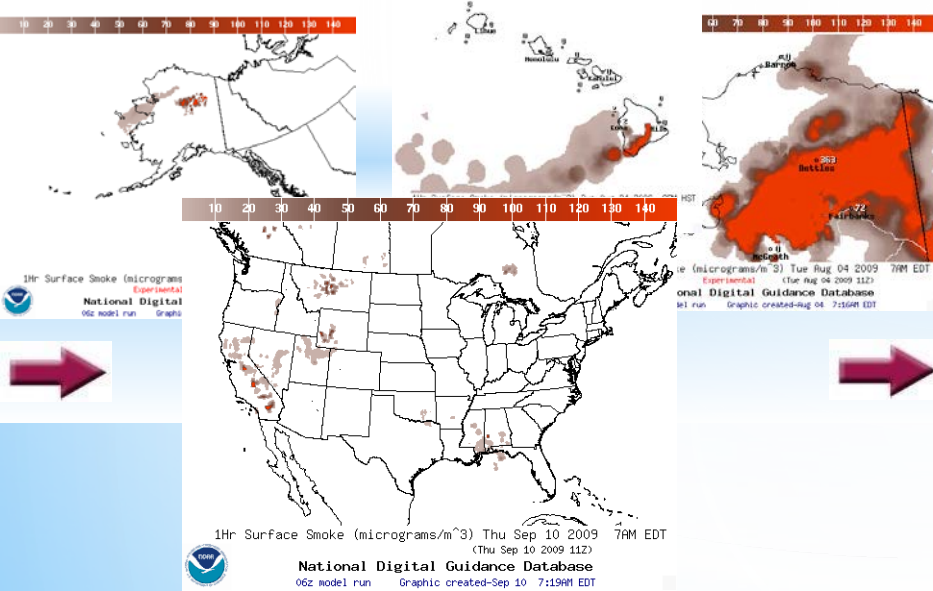
2007 Operational



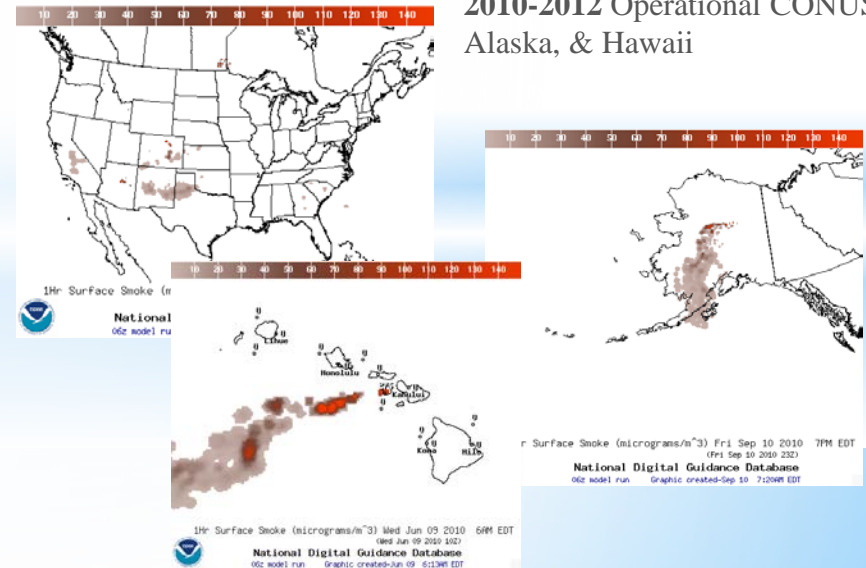
2008 CONUS & Exp. Alaska Smoke



2009 CONUS, Experimental Alaska Smoke, Experimental Hawaii Smoke



2010-2012 Operational CONUS, Alaska, & Hawaii



NWS Web Farm Changes

In 2011, the hardware/web farm setup was failing, resulting in poor timeliness and system stability.



The transition of Air Quality's weather.gov presence to the new load balanced web farm/new hardware known as the National Information Dissemination System (NIDS) was completed.

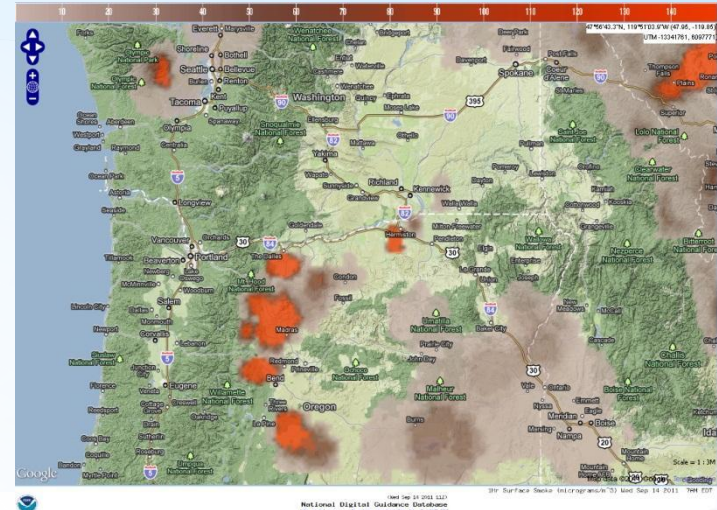
System performance and stability have been excellent since the transition. Users were redirected to the new URL: airquality.weather.gov

Some features, such as the point and click maps were discontinued because of security concerns with the CGI program.

Next Generation of AQ on the Web

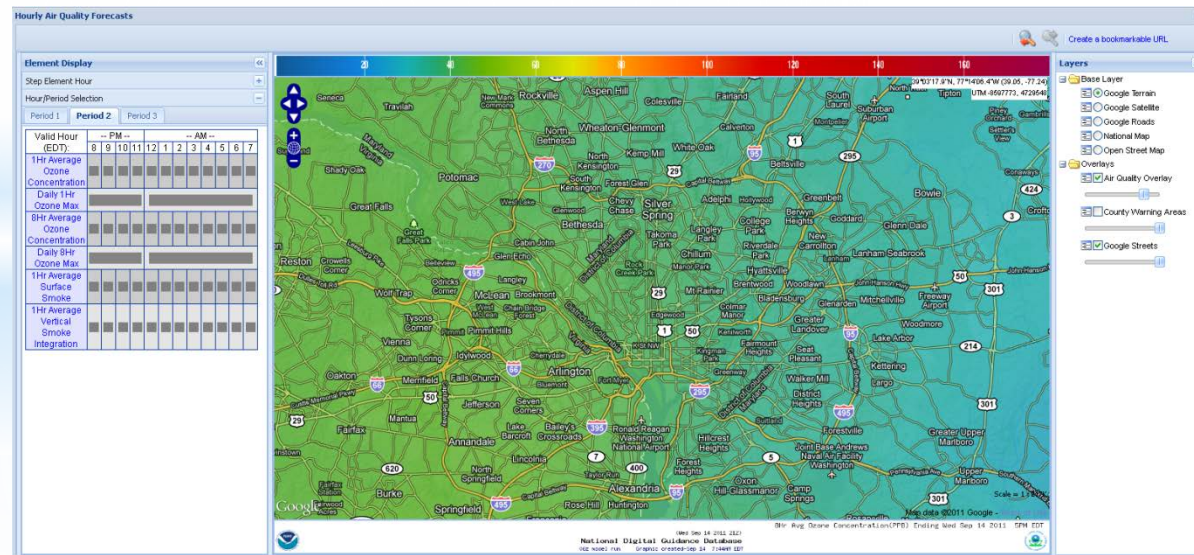
Pros:

- * Uses a PostgreSQL Database to manage data
- * Very interactive
- * Potential to add custom overlays
- * Better data interrogation/sampling
- * Flexible zoom and domain views that can be saved by users
- * Much quicker refresh of the site with data updates
- * Easier to add additional elements, configuration changes



Cons:

- * Much more complicated to maintain
- * More difficult to capture data images for other uses



Air Quality Guidance: Data access from www.weather.gov

- Graphical Ozone & Smoke Guidance Displays:

<http://airquality.weather.gov/>

<http://airquality.weather.gov/expr/>

- GRIB2 Data Download:

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/DF.gr2/DC.ndgd/GT.aq/AR.conus>

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.aq/AR.alaska>

- Web Questions, Suggestions:

Email Marc.Saccucci@noaa.gov