

# 8/25 Rim/American Fire AQ Summary; 8/26-8/28 Outlook

- Under the influence of stronger SW winds, the Rim fire grew to 149,780, with 21,782 acres of that in Yosemite NP .
- The plume and pattern of impacts remains the same, as smoke continues to spread as far north as Reno and the Carson Valley, east over the Great Basin, and then downslope at night to communities immediately north and west of the fire.
- **Tuolumne City in particular continues to experience smoke in the hazardous AQI range at night, though concentrations recover to good in the afternoon.**
- Generally, models show same pattern (or worse) continuing for all sites for the next few days.
- Pinecrest Lake is likely experiencing direct plume impacts and heavy smoke, data from that monitor should be coming online soon.
- Models show Carson Valley and Reno/Tahoe will continue to see afternoon direct plume impacts in the late morning to early afternoon, with accumulation of drift smoke under inversions in the evening and overnight. See attached graphs for patterns and levels of impacts at a given site.



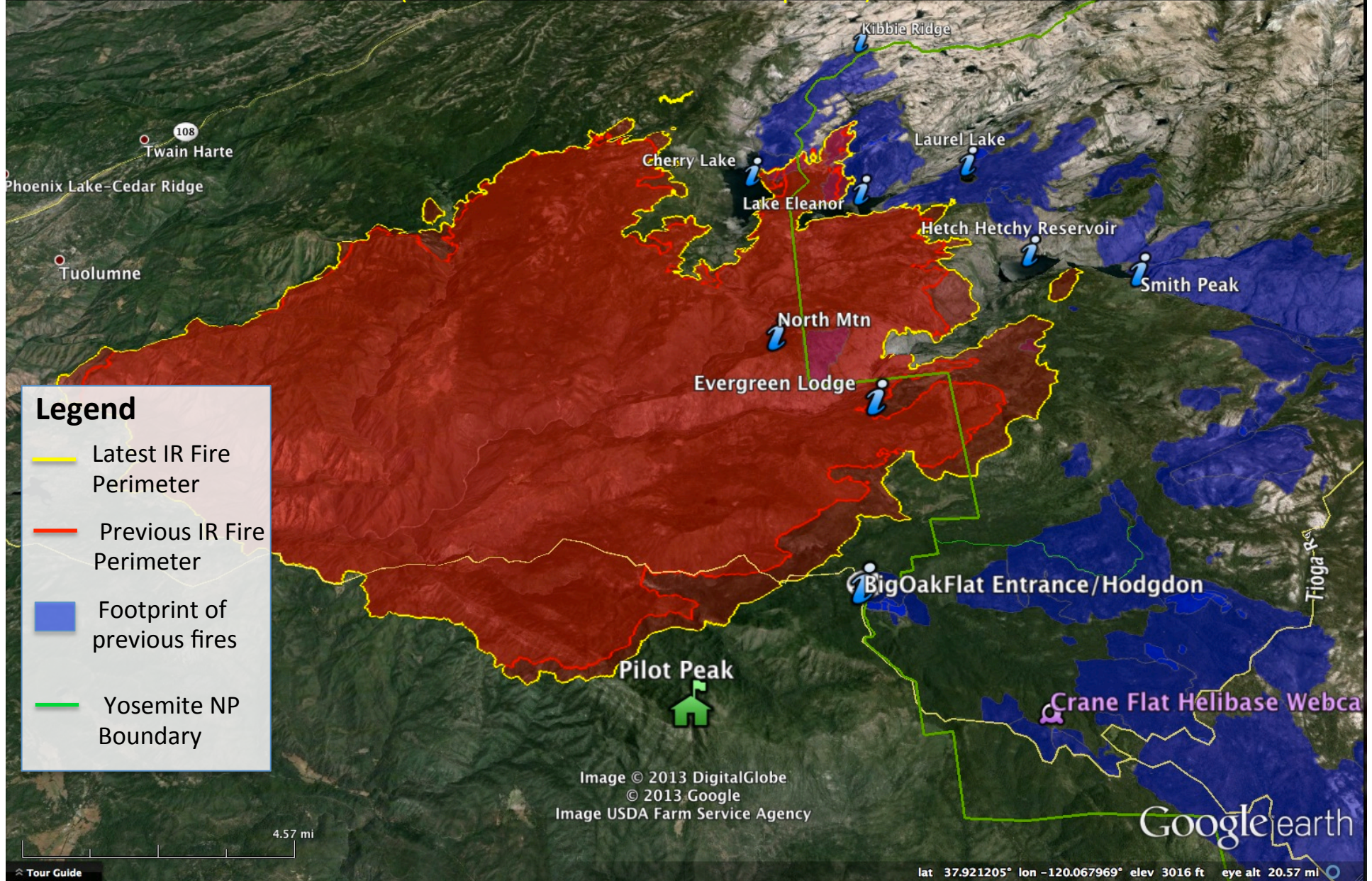
Prepared by Leland Tarnay, air resources specialist

Rim Fire Information:

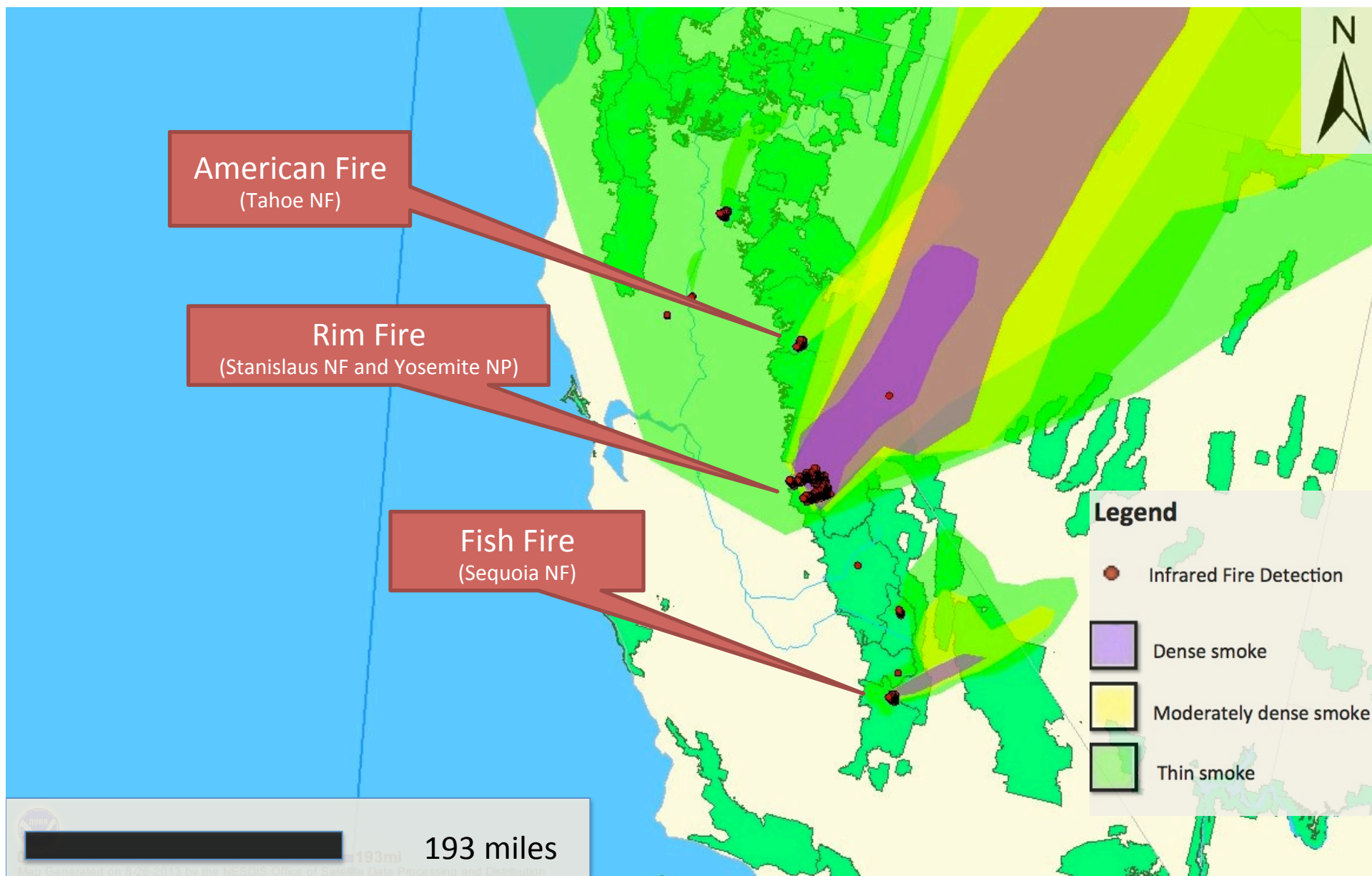
<http://inciweb.nwcg.gov/incident/3660/>

# Rim Fire, 8/26 Growth Map

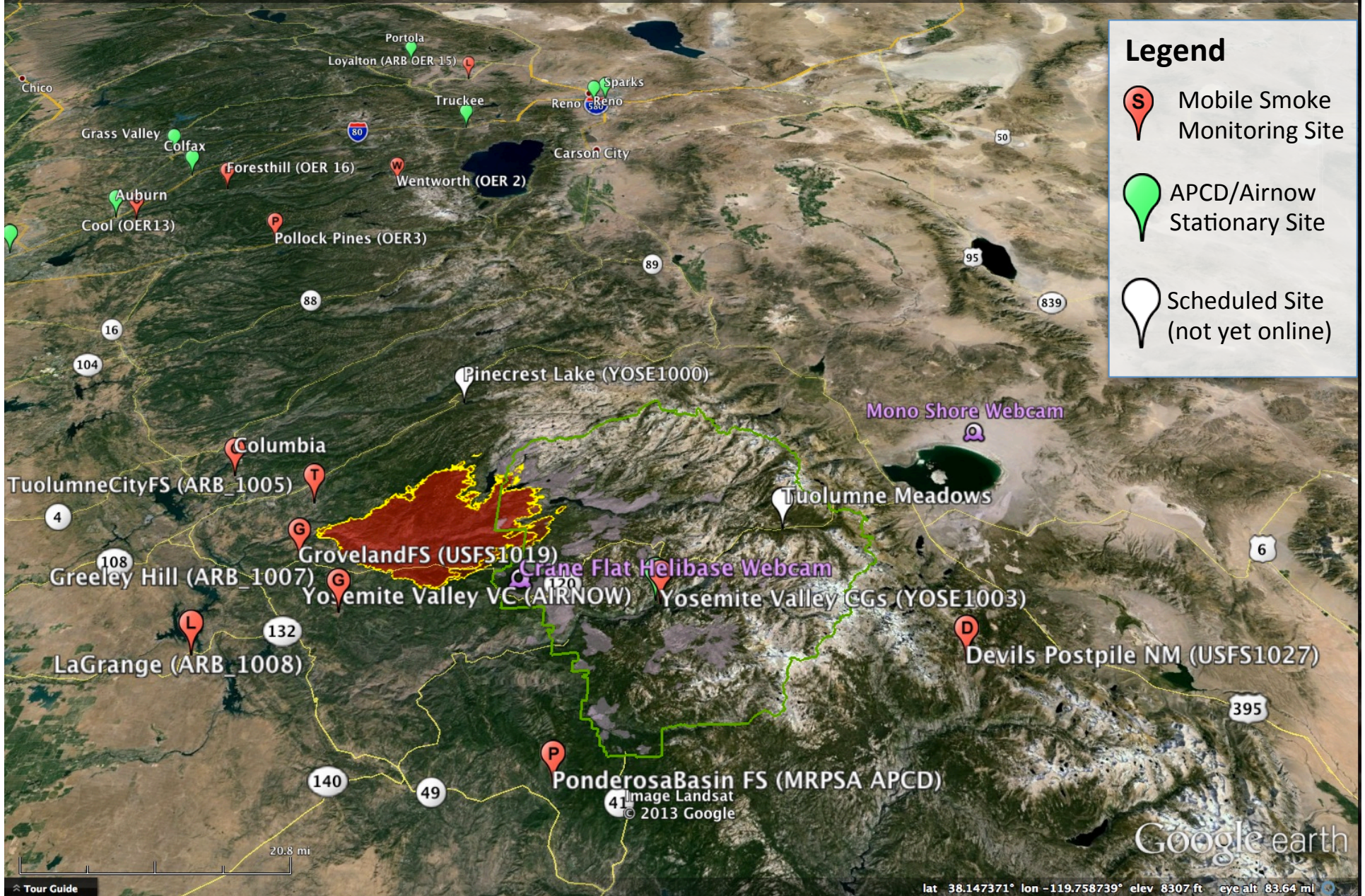
(most recent area is most transparent)



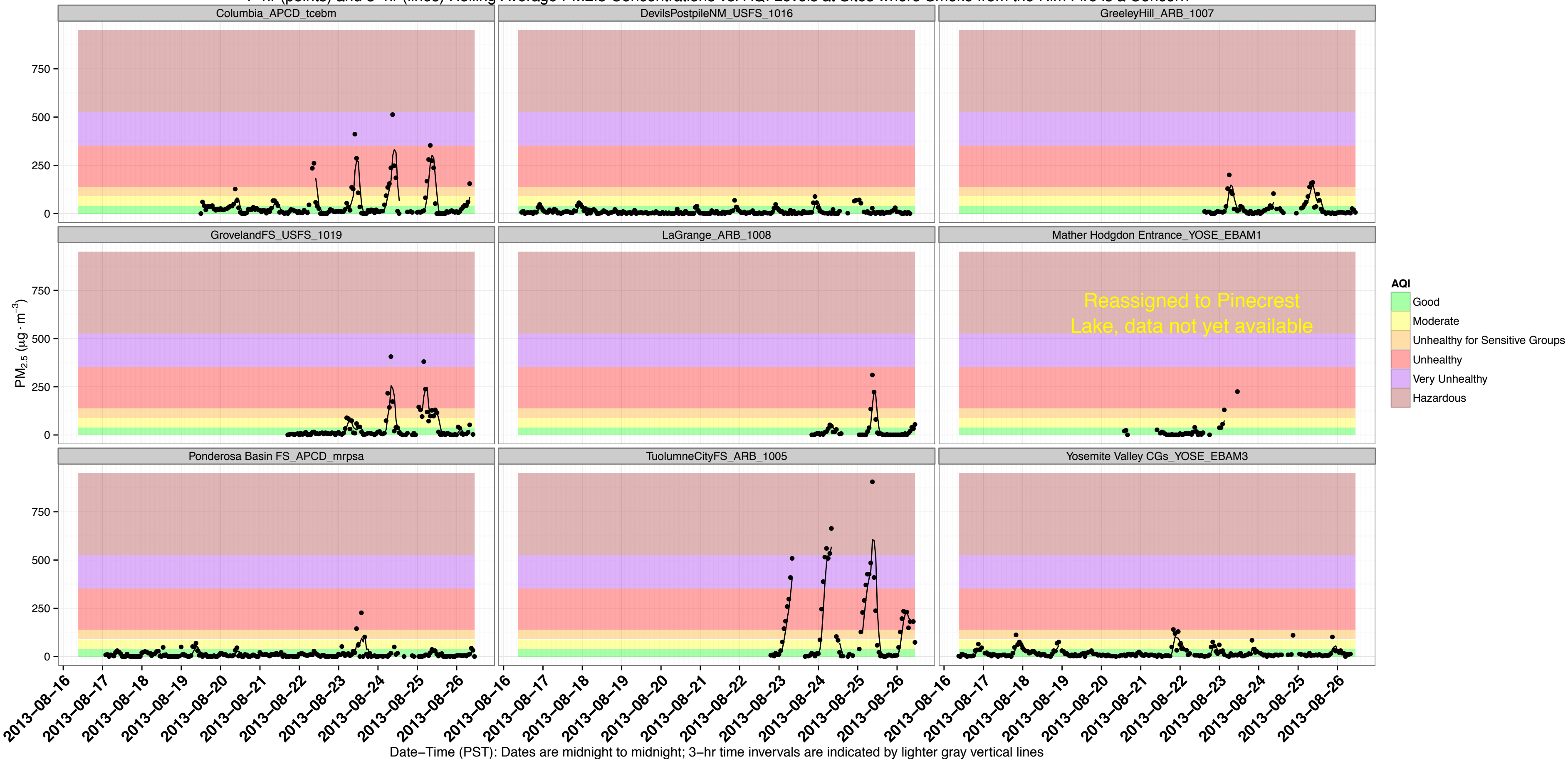
# August 25, 2013: Fires and Smoke over California and the Western U.S. (Satellite Observation)



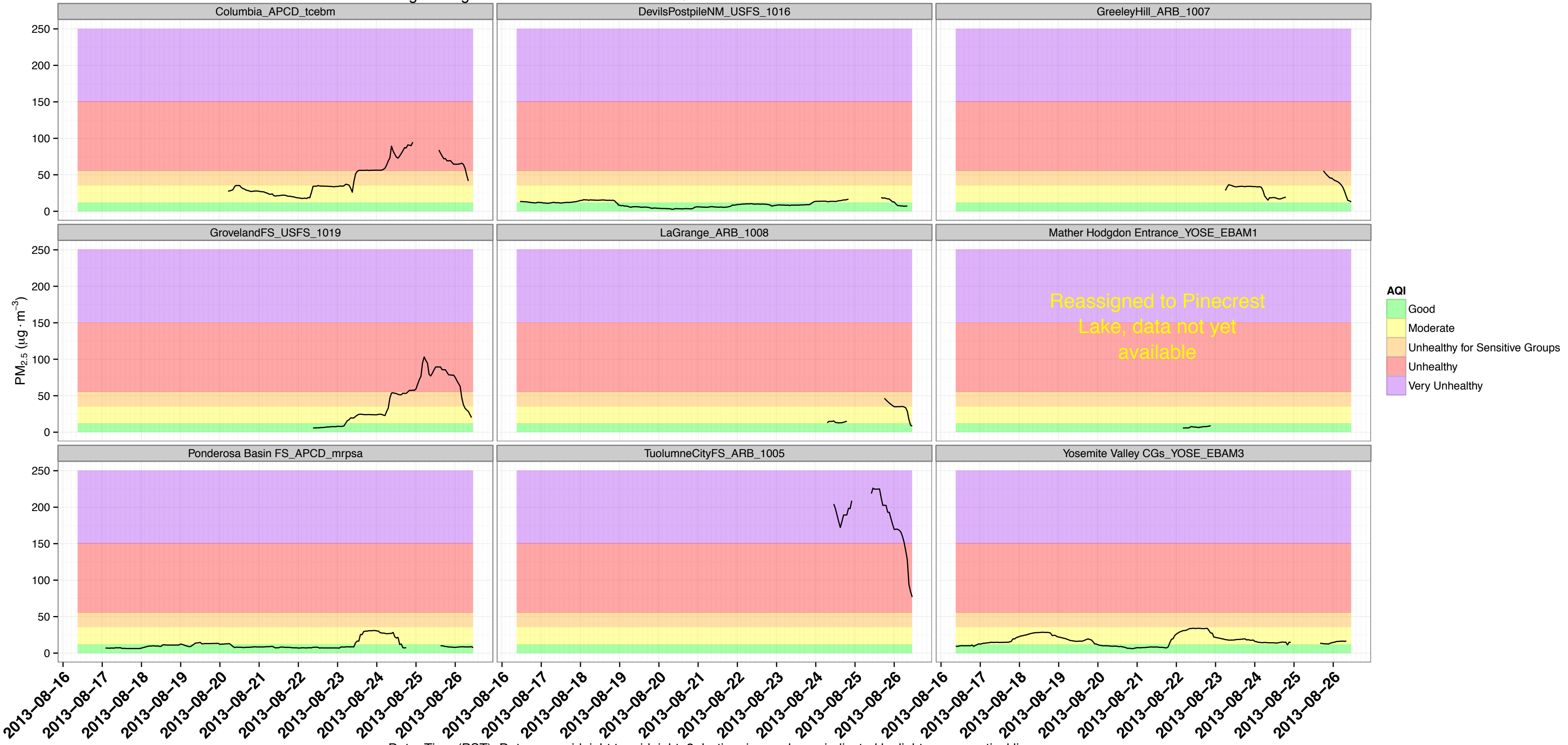
# Rim and American Fire, AQ Monitoring Site Map



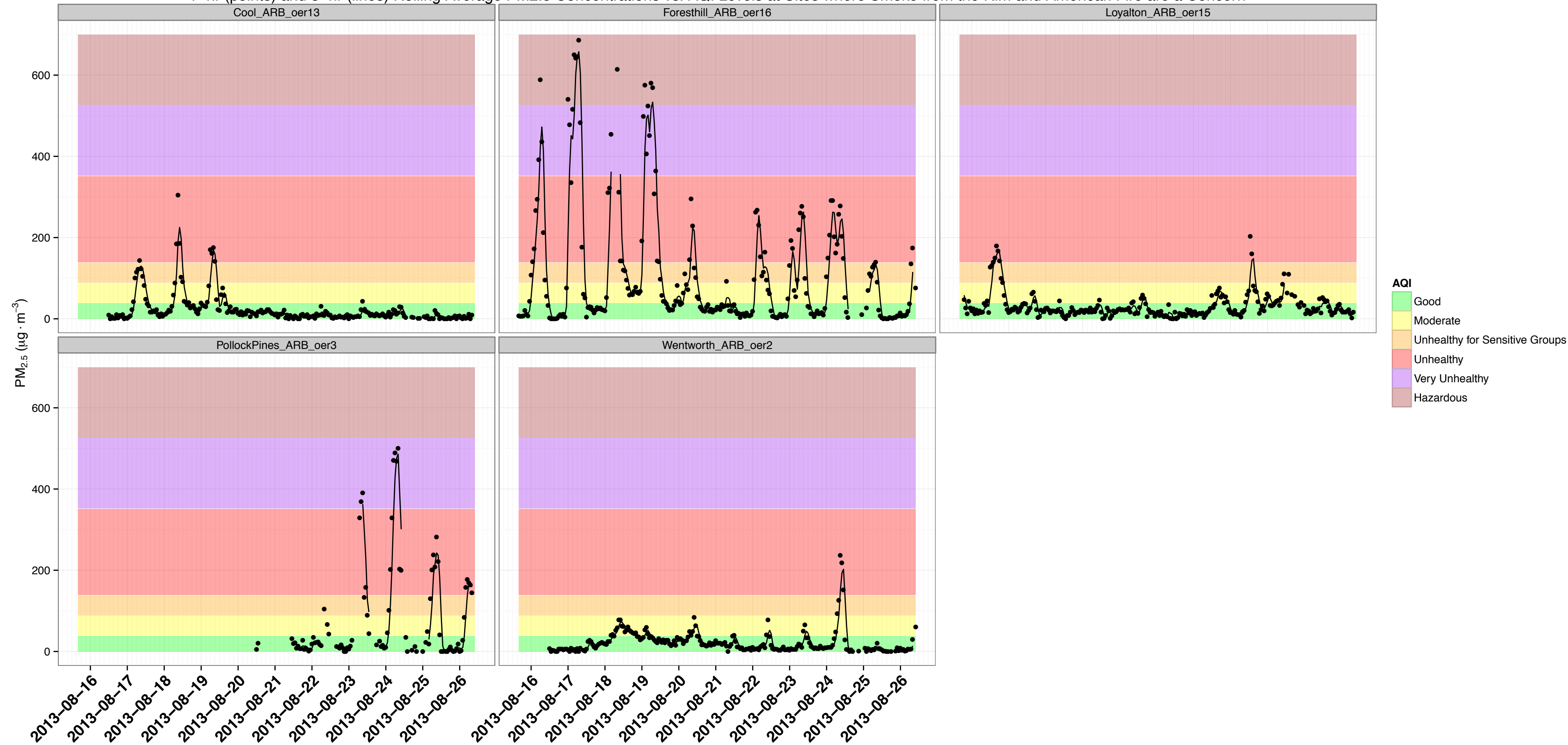
1-hr (points) and 3-hr (lines) Rolling Average PM2.5 Concentrations vs. AQI Levels at Sites where Smoke from the Rim Fire is a Concern



# 24-hr Rolling Average PM<sub>2.5</sub> Concentrations vs. AQI levels at Sites where Smoke from the Rim Fire is a Concern

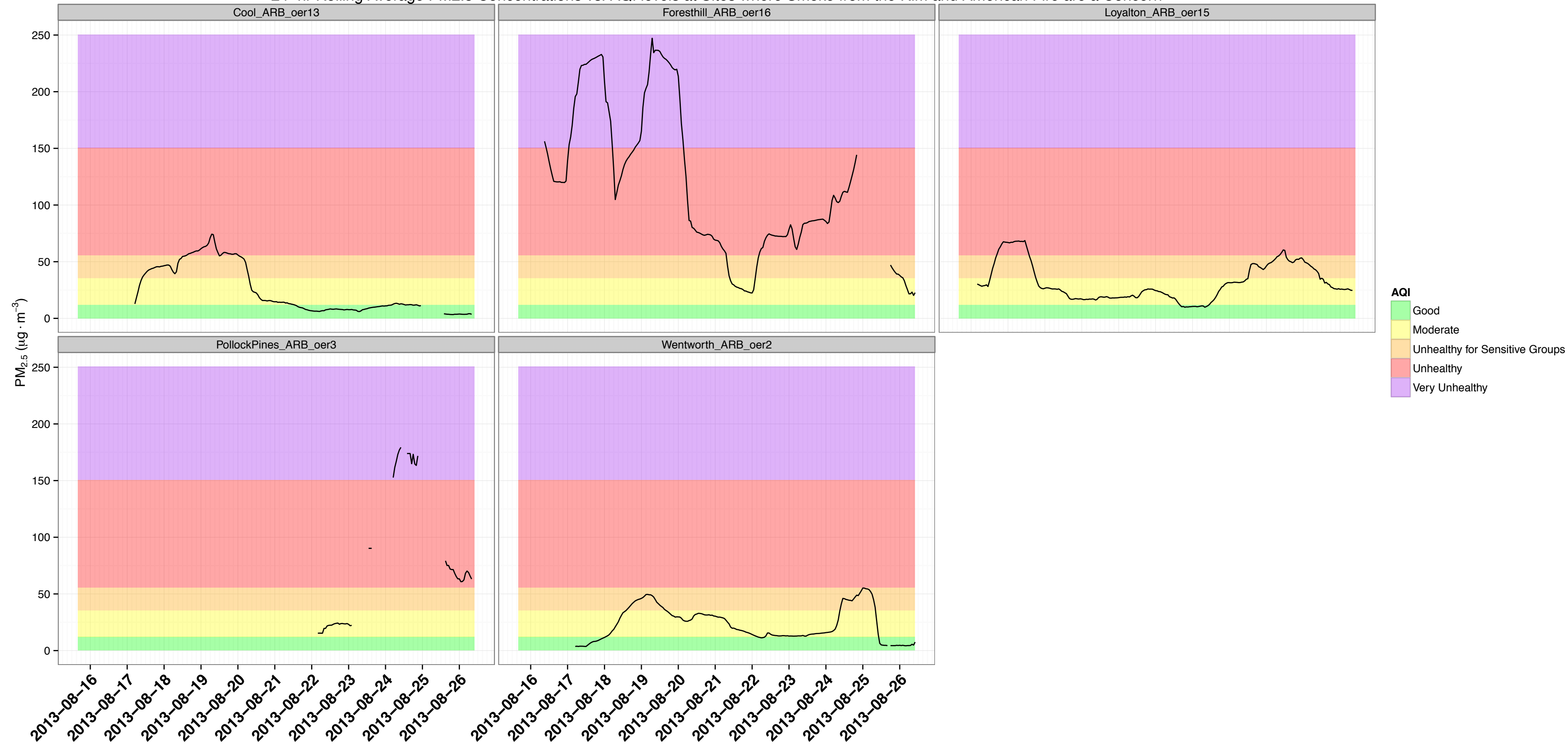


1-hr (points) and 3-hr (lines) Rolling Average PM2.5 Concentrations vs. AQI Levels at Sites where Smoke from the Rim and American Fire are a Concern



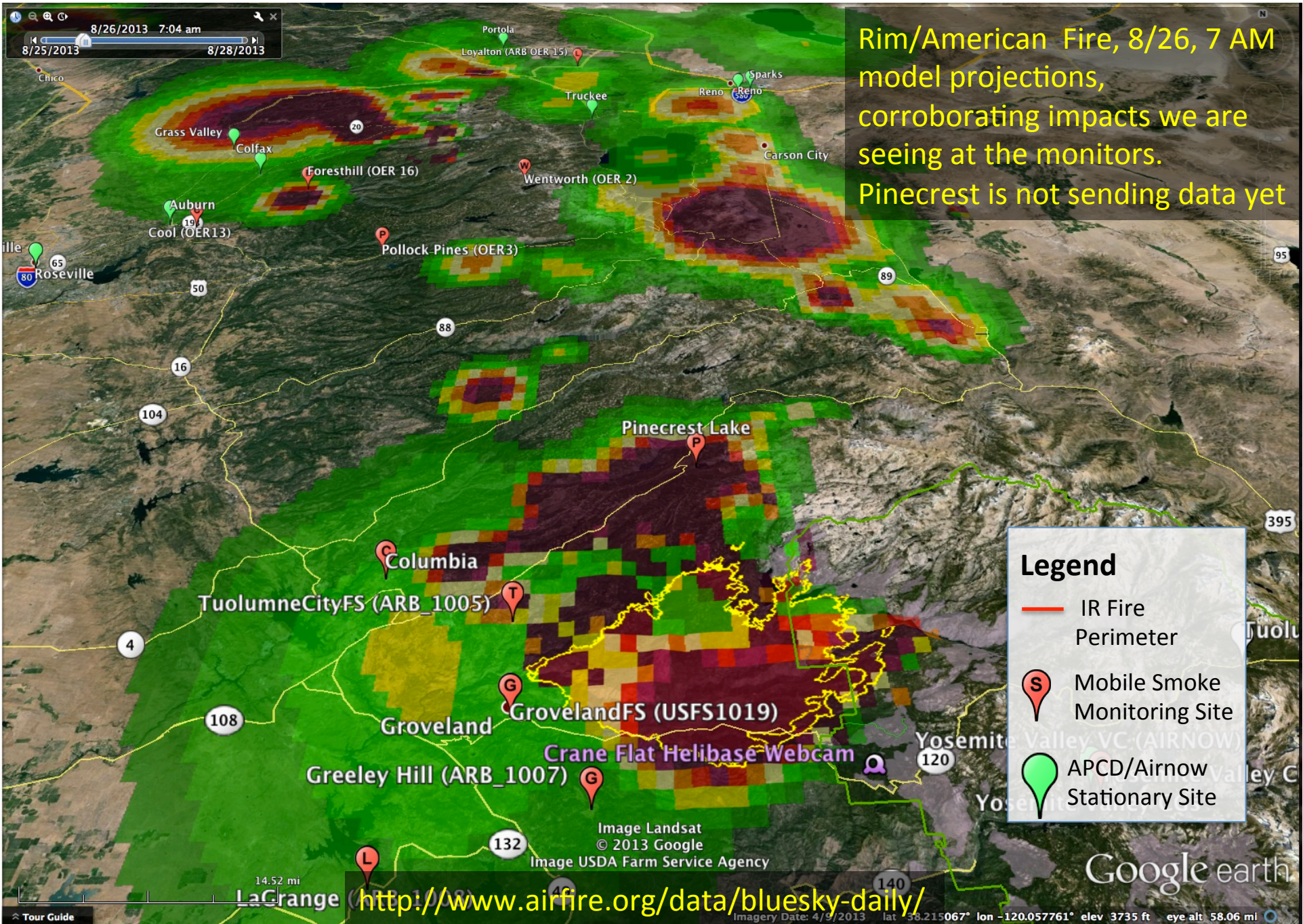
Date-Time (PST): Dates are midnight to midnight; 3-hr time intervals are indicated by lighter gray vertical lines

# 24-hr Rolling Average PM2.5 Concentrations vs. AQI levels at Sites where Smoke from the Rim and American Fire are a Concern






Date-Time (PST): Dates are midnight to midnight; 3-hr time intervals are indicated by lighter gray vertical lines

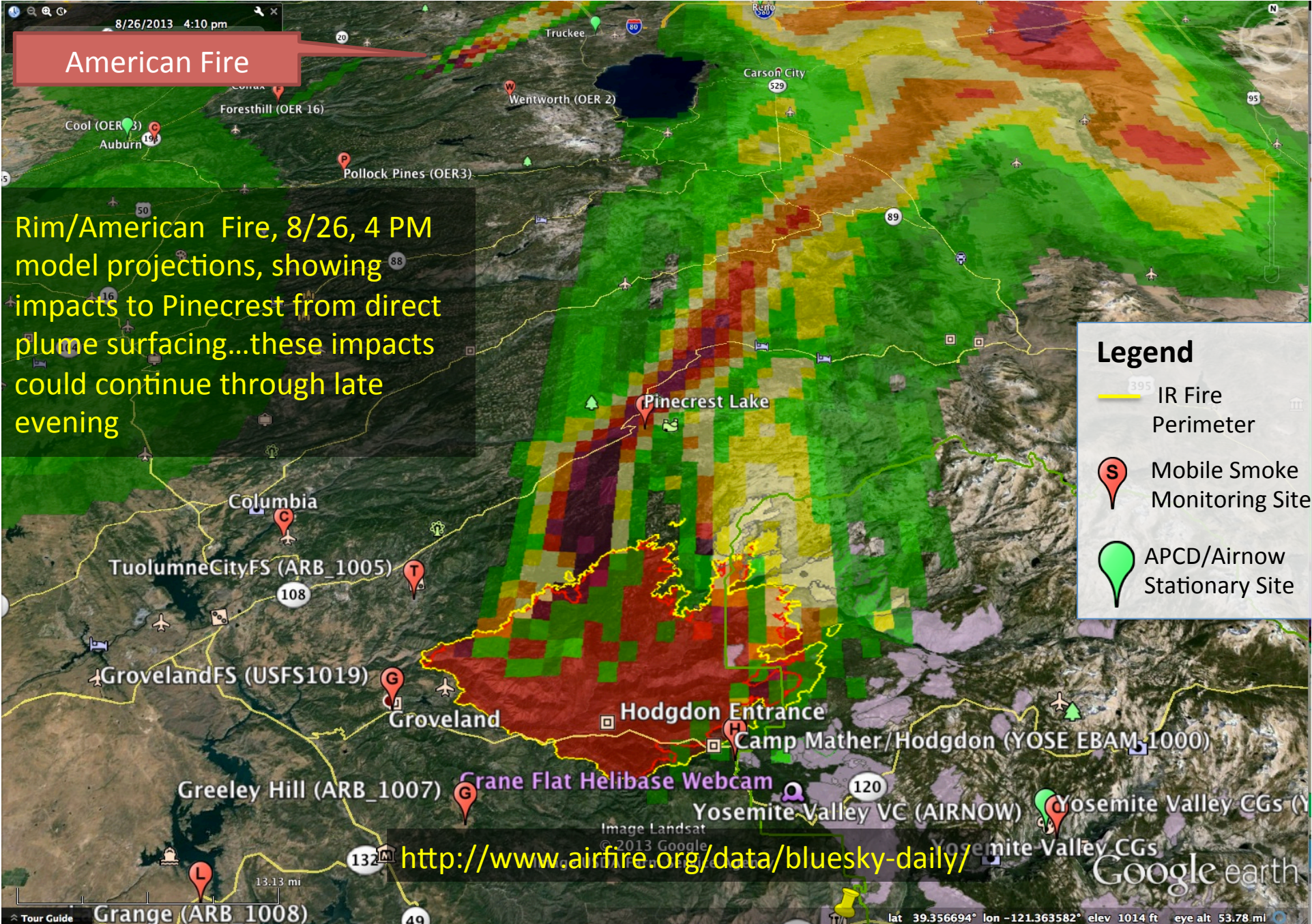




Rim/American Fire, 8/26, 7 AM  
model projections,  
corroborating impacts we are  
seeing at the monitors.  
Pinecrest is not sending data yet

**Legend**




-  IR Fire Perimeter
-  Mobile Smoke Monitoring Site
-  APCD/Airnow Stationary Site



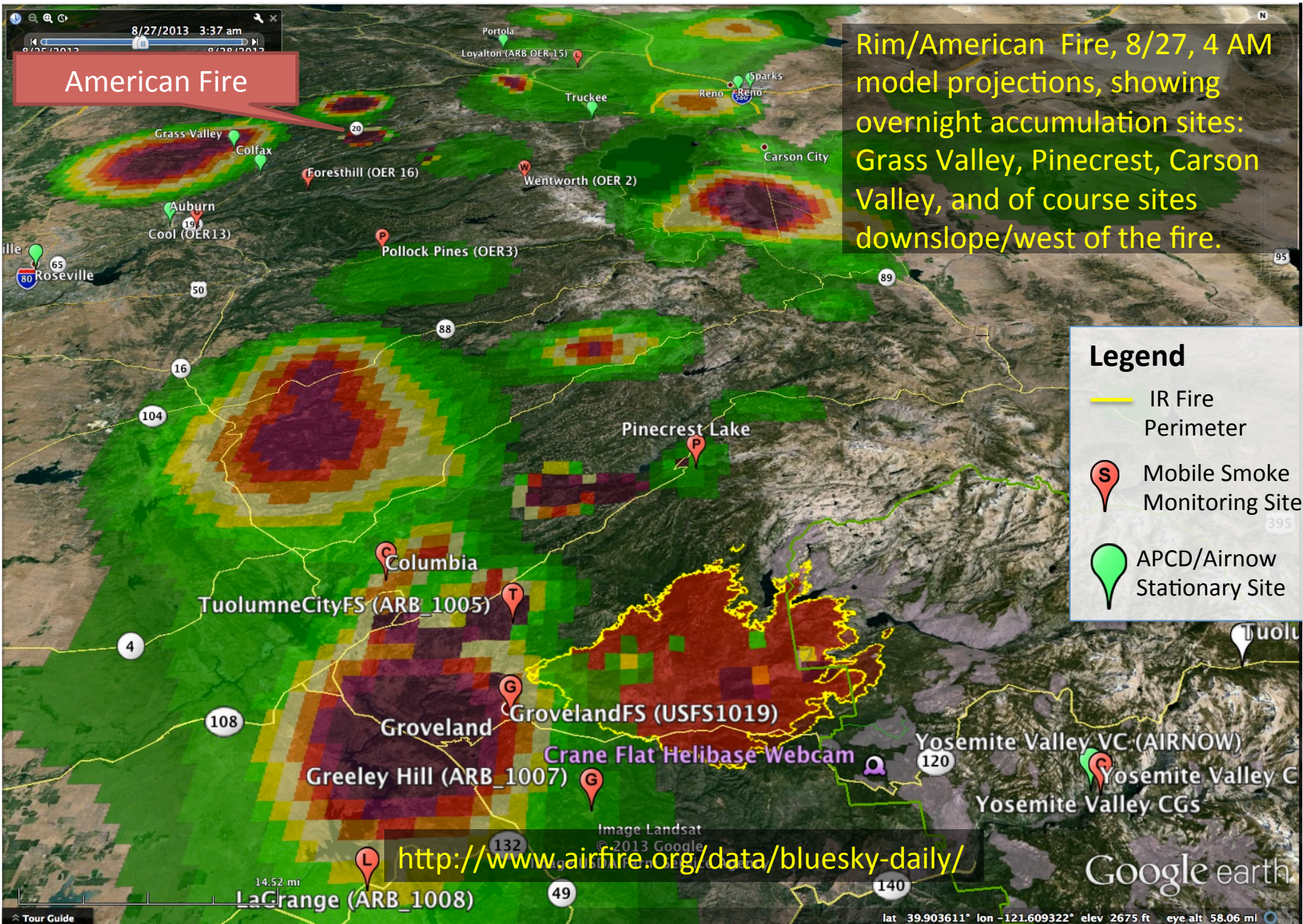
**American Fire**

Rim/American Fire, 8/26, 4 PM model projections, showing impacts to Pinecrest from direct plume surfacing...these impacts could continue through late evening

**Legend**

-  IR Fire Perimeter
-  Mobile Smoke Monitoring Site
-  APCD/Airnow Stationary Site




<http://www.airfire.org/data/bluesky-daily/>



American Fire

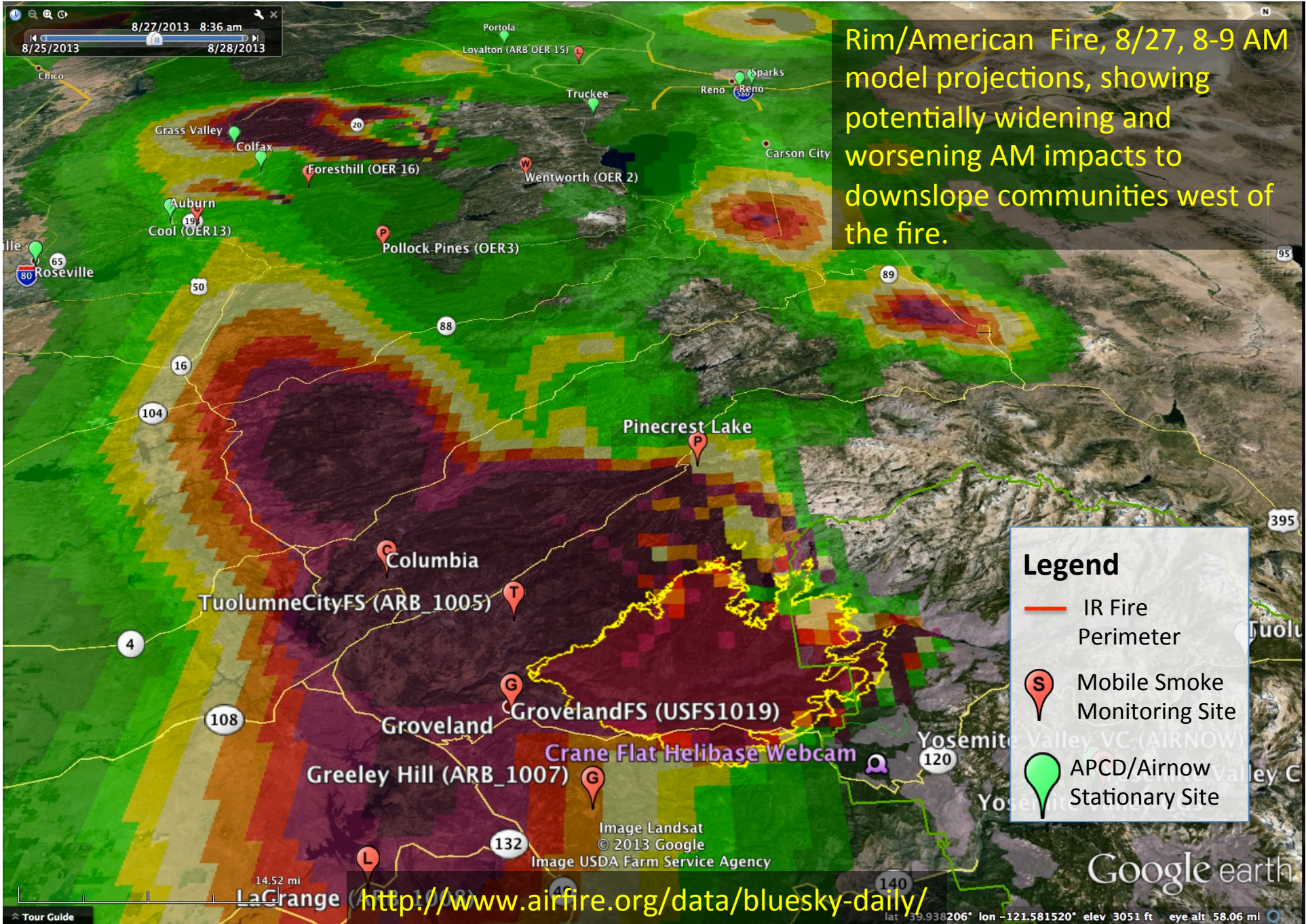
Rim/American Fire, 8/27, 4 AM model projections, showing overnight accumulation sites: Grass Valley, Pinecrest, Carson Valley, and of course sites downslope/west of the fire.

### Legend

-  IR Fire Perimeter
-  Mobile Smoke Monitoring Site
-  APCD/Airnow Stationary Site

<http://www.airfire.org/data/bluesky-daily/>

Google earth

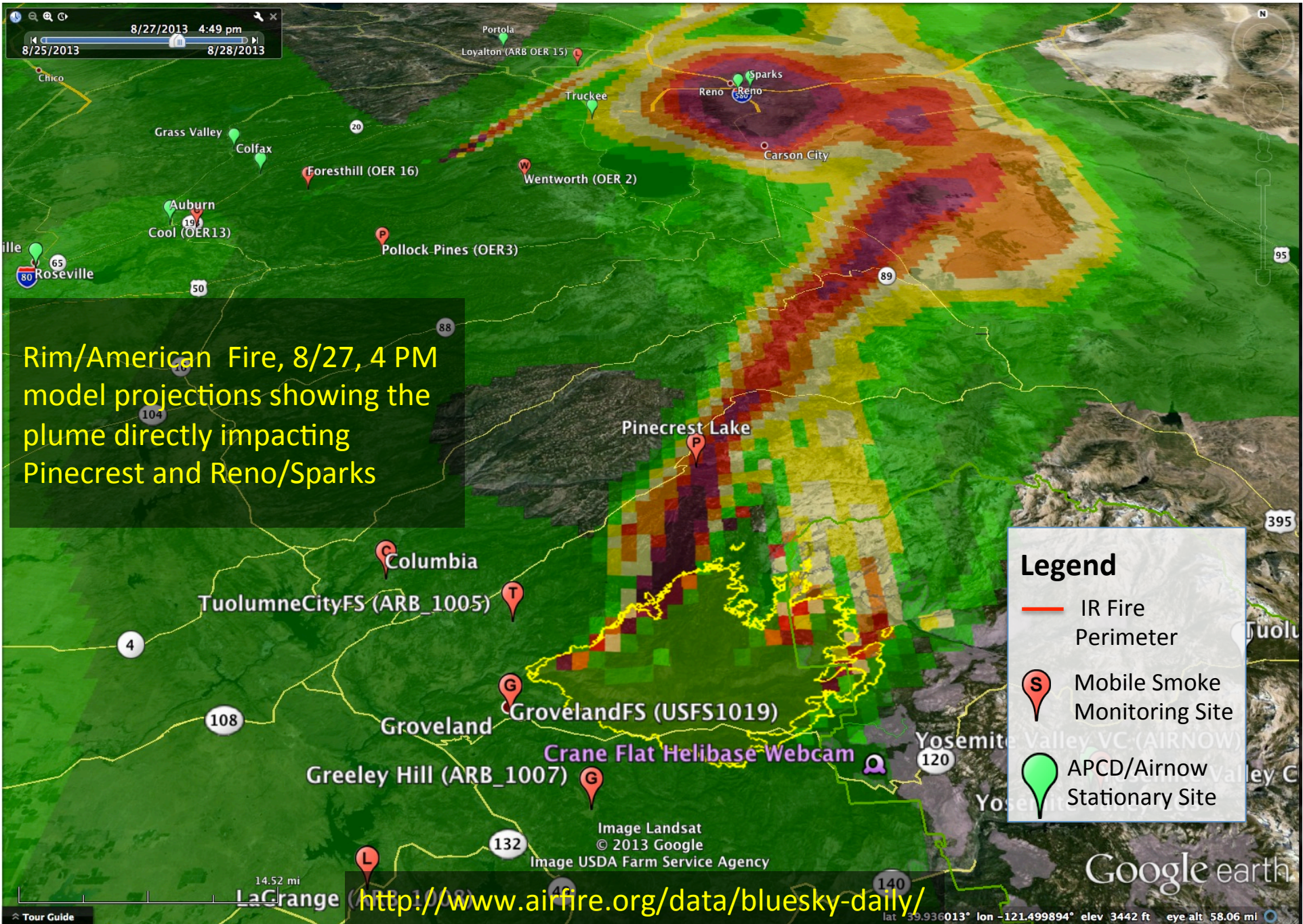


Rim/American Fire, 8/27, 8-9 AM model projections, showing potentially widening and worsening AM impacts to downslope communities west of the fire.

**Legend**

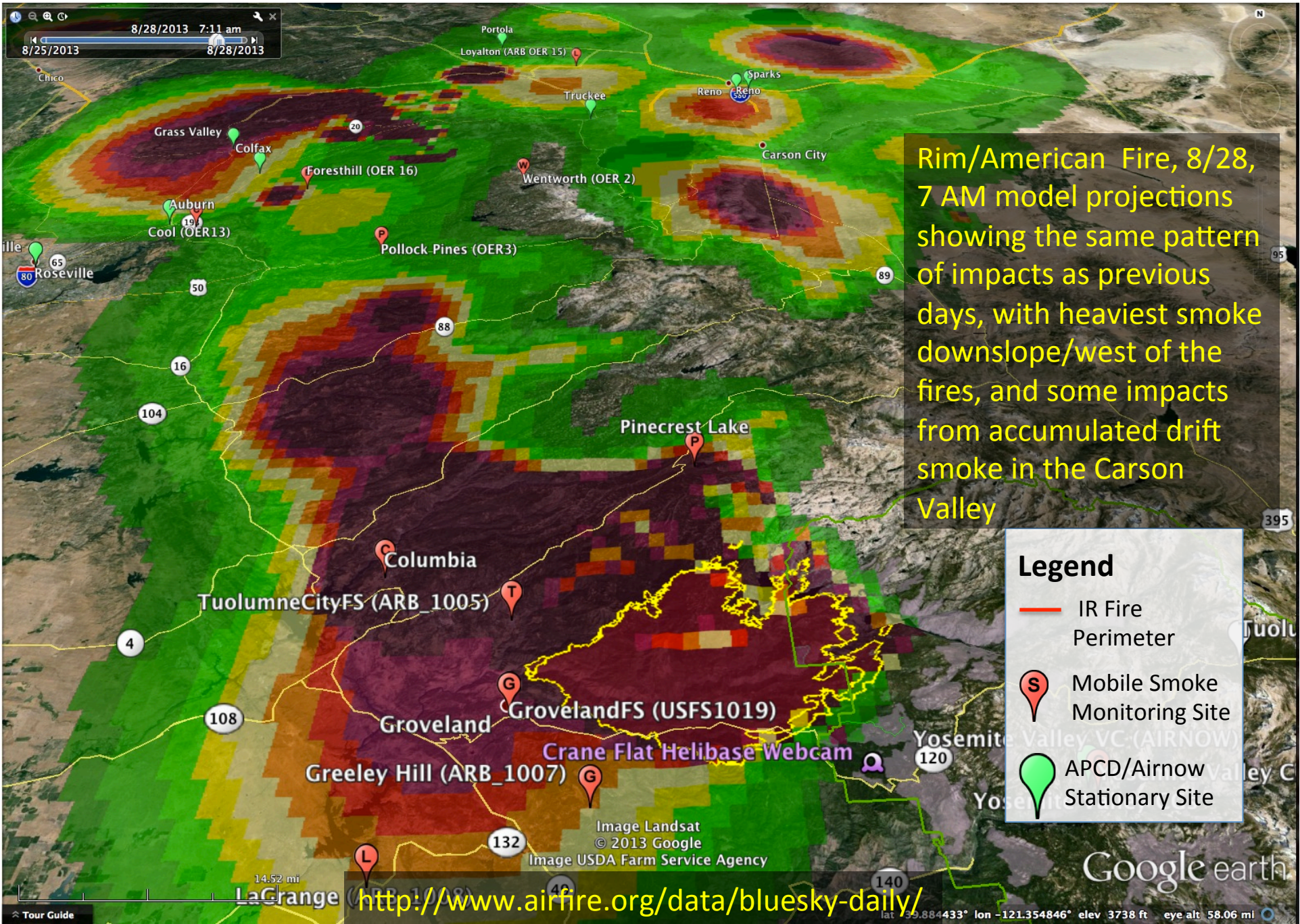
- IR Fire Perimeter
- S Mobile Smoke Monitoring Site
- G APCD/Airnow Stationary Site

<http://www.airfire.org/data/bluesky-daily/>



Rim/American Fire, 8/27, 4 PM  
model projections showing the  
plume directly impacting  
Pinecrest and Reno/Sparks

<http://www.airfire.org/data/bluesky-daily/>



Rim/American Fire, 8/28, 7 AM model projections showing the same pattern of impacts as previous days, with heaviest smoke downslope/west of the fires, and some impacts from accumulated drift smoke in the Carson Valley

**Legend**

- IR Fire Perimeter
- Mobile Smoke Monitoring Site
- APCD/Airnow Stationary Site

<http://www.airfire.org/data/bluesky-daily/>