

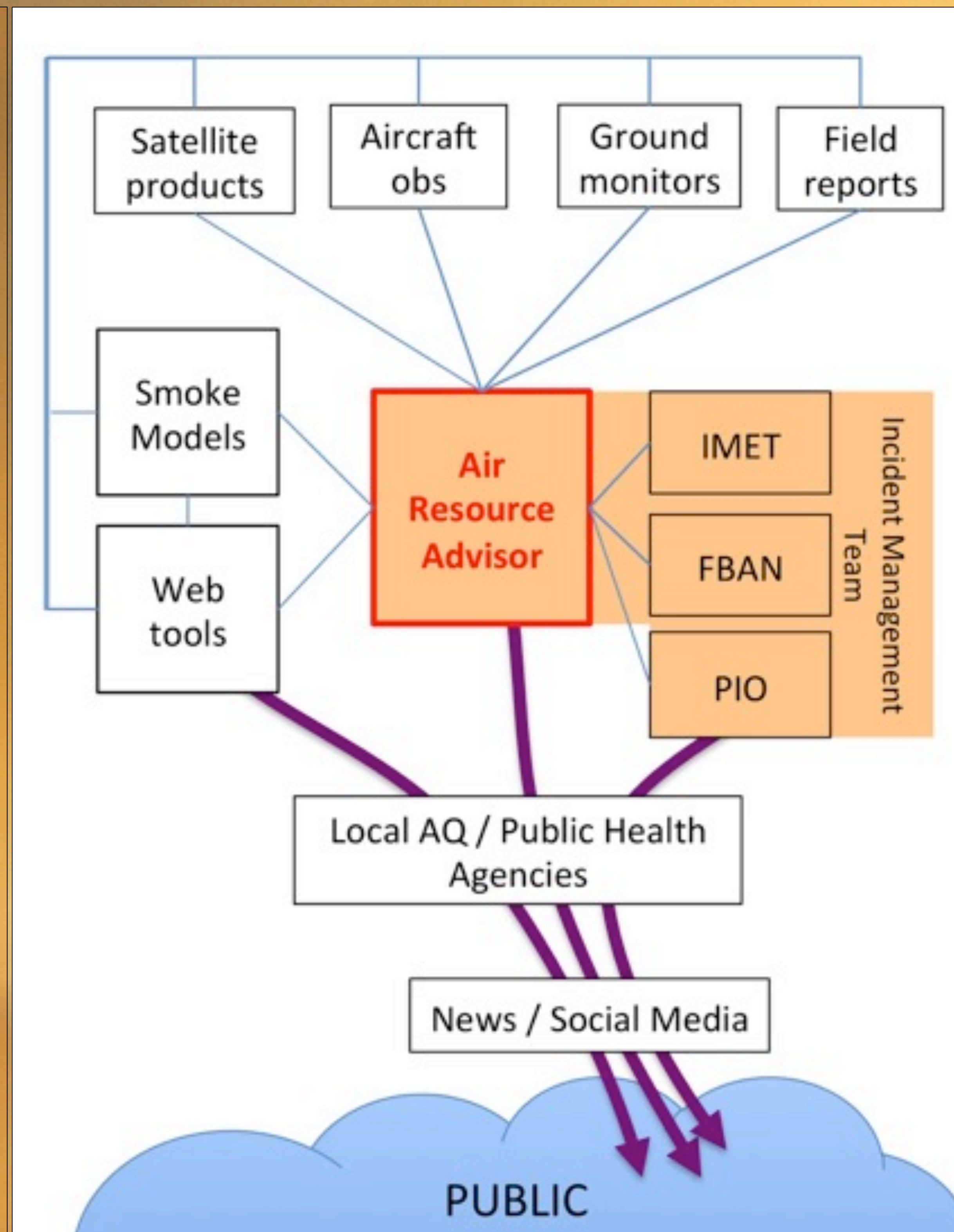
Satellite Products for Decision Support During Wildfire Smoke Episodes in 2017

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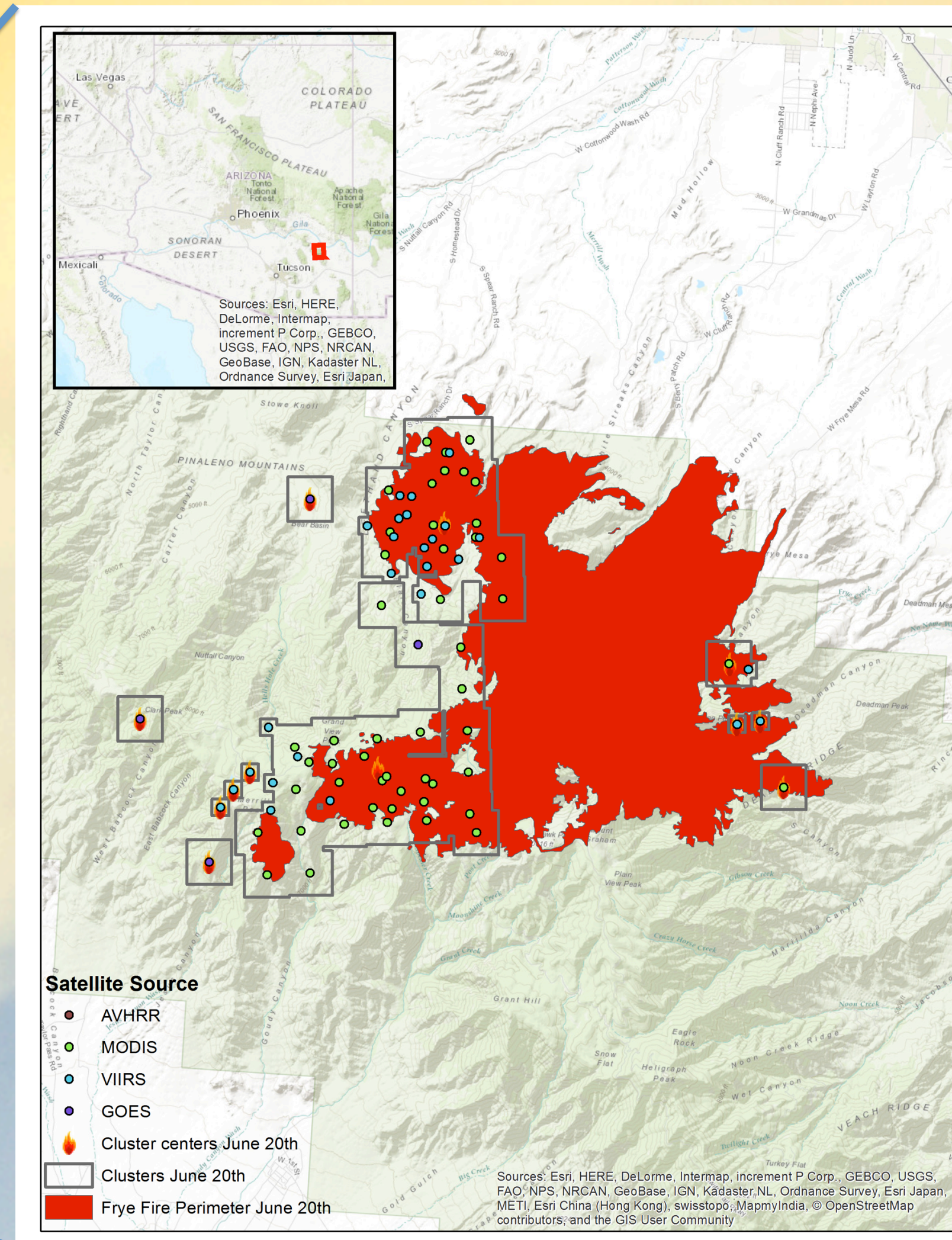
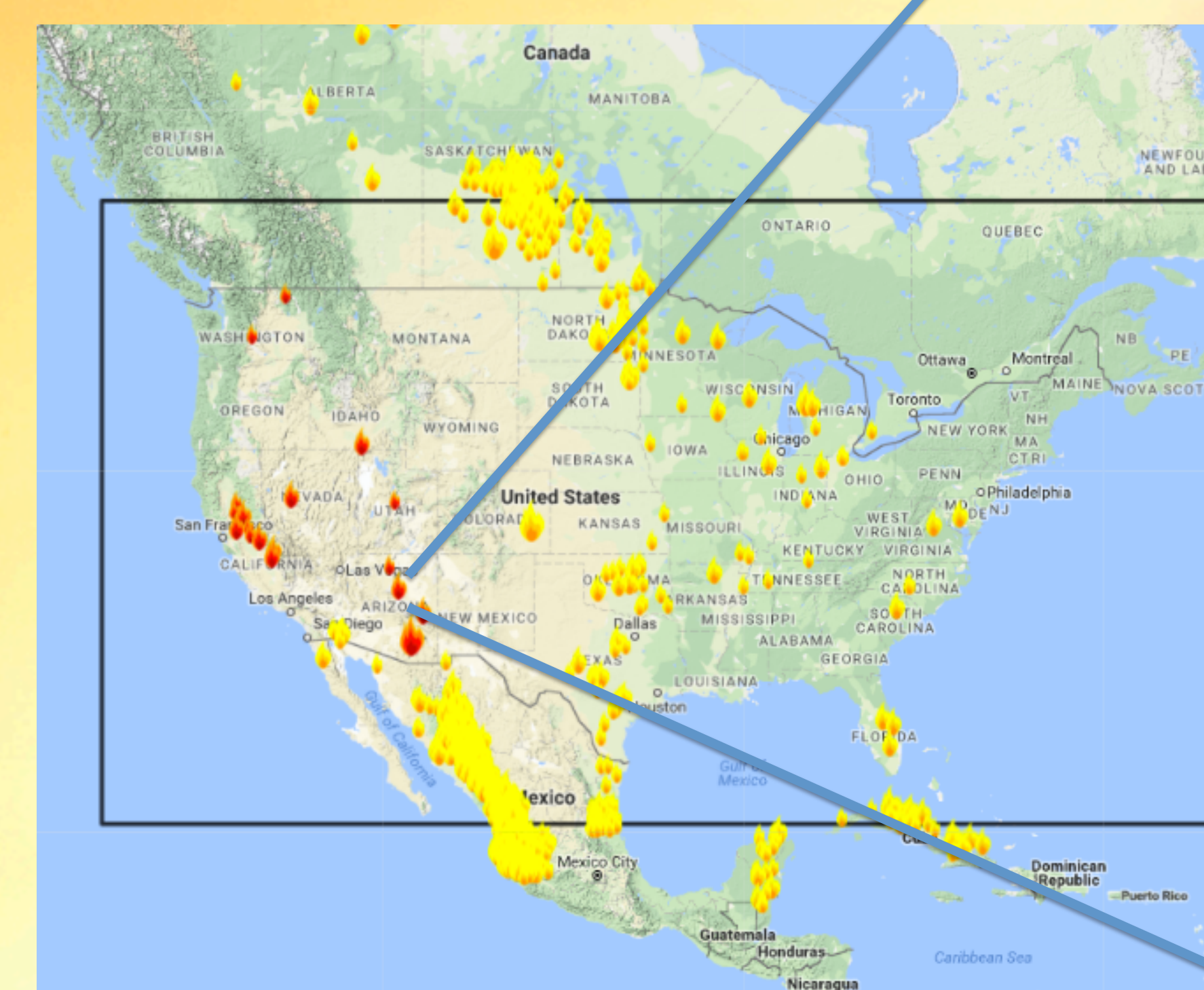
STAKEHOLDERS

- Wildland Fire Air Quality Response Program (WFAQRP)
 - <https://wildlandfiresmoke.net/>
 - Air Resource Advisors (ARA) deployed with Wildfire Incident Command (IC) Teams
 - Dissemination of daily Smoke Outlooks directly to:
 - Local Air Quality and Health agencies,
 - IC Public Information Officers,
 - Community Meetings,
 - Daily Smoke Conference Calls,
 - and smoke blogs (public)
- National Oceanic and Atmospheric Administration (NOAA)
- USDA Forest Service National Smoke Specialist (WFAQRP Lead)
- US DOI National Park Service National Smoke Specialist (WFAQRP Lead)
- USDA Forest Service Air Program: California, Washington, Oregon, Colorado, Minnesota, Arizona, New Mexico
- Environment and Climate Change Canada
- Natural Resources Canada
- Smoke Blogs – Public
 - <http://californiasmokeinfo.blogspot.com/>
 - <http://oregonsmoke.blogspot.com/>
 - <http://wasmoke.blogspot.com/>



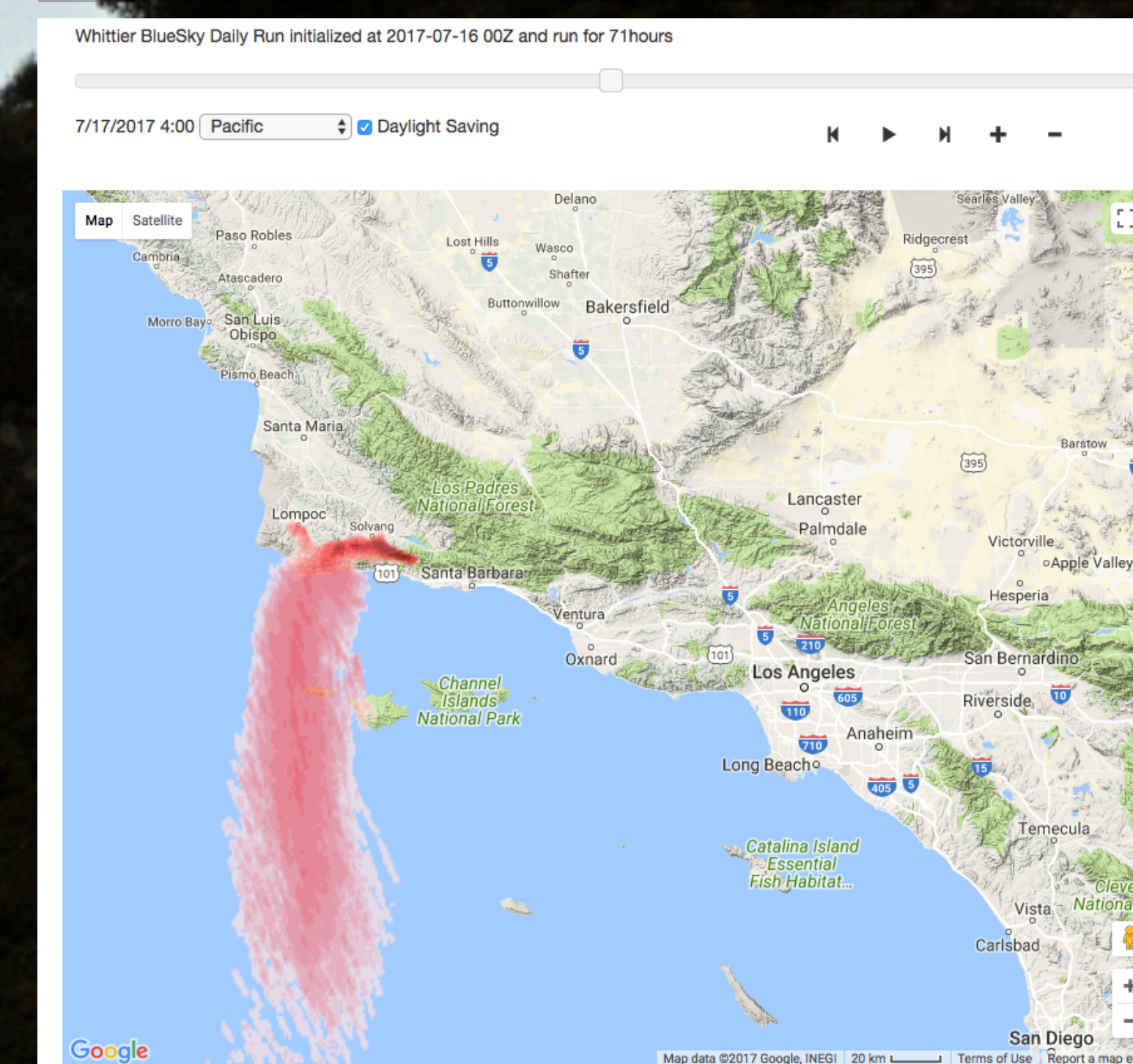
VIIRS Fire Activity

- New clustering approach
- OMI NO2 Tiger Team



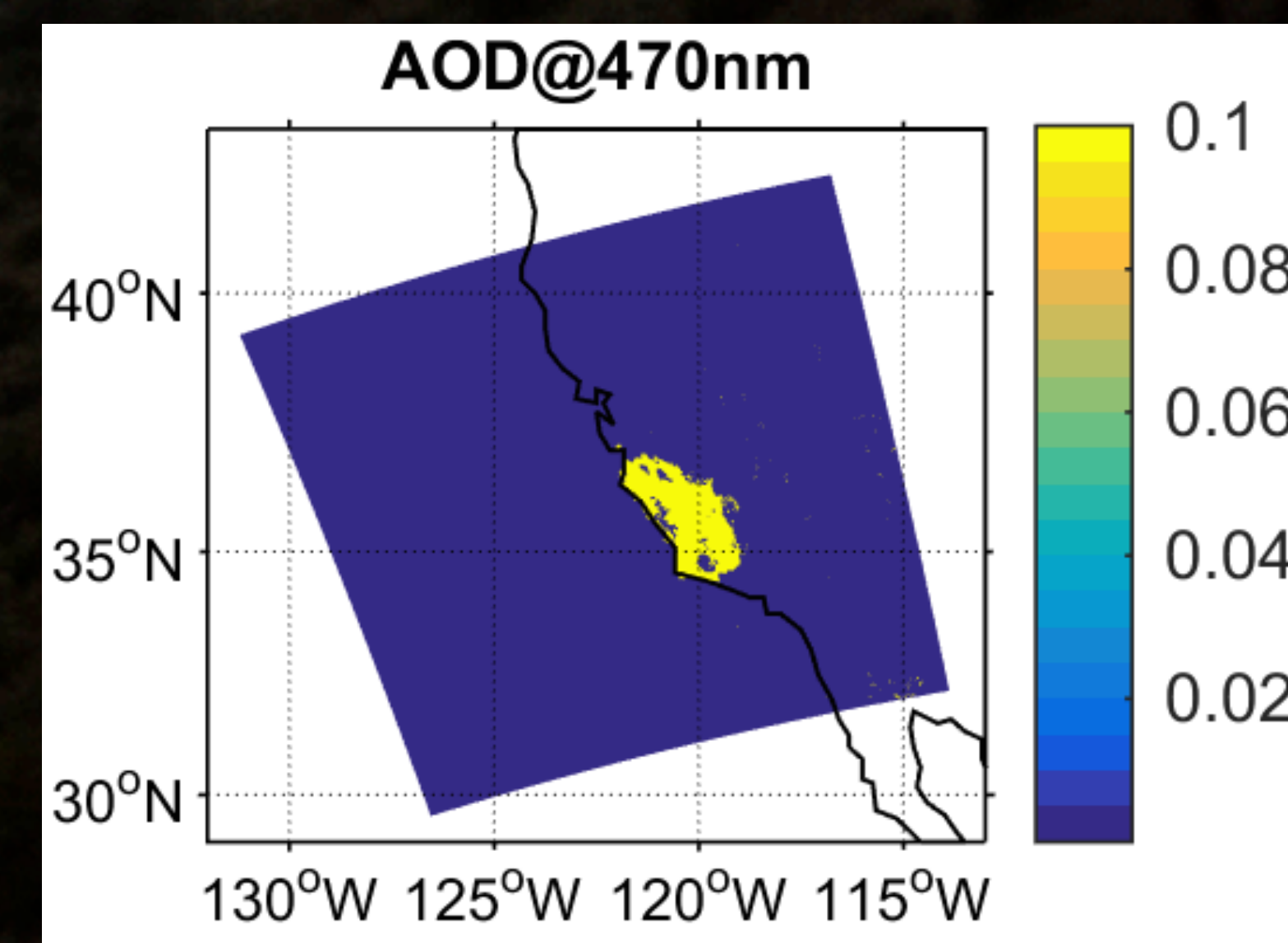
GOES-16 and Custom Smoke Modeling for Wildfires:

- Whittier Wildfire
- Sundowner Winds
- GOES-16 Nighttime Fire Activity
- Disseminated to Central and Southern CA AQ and Health Agencies, and Public

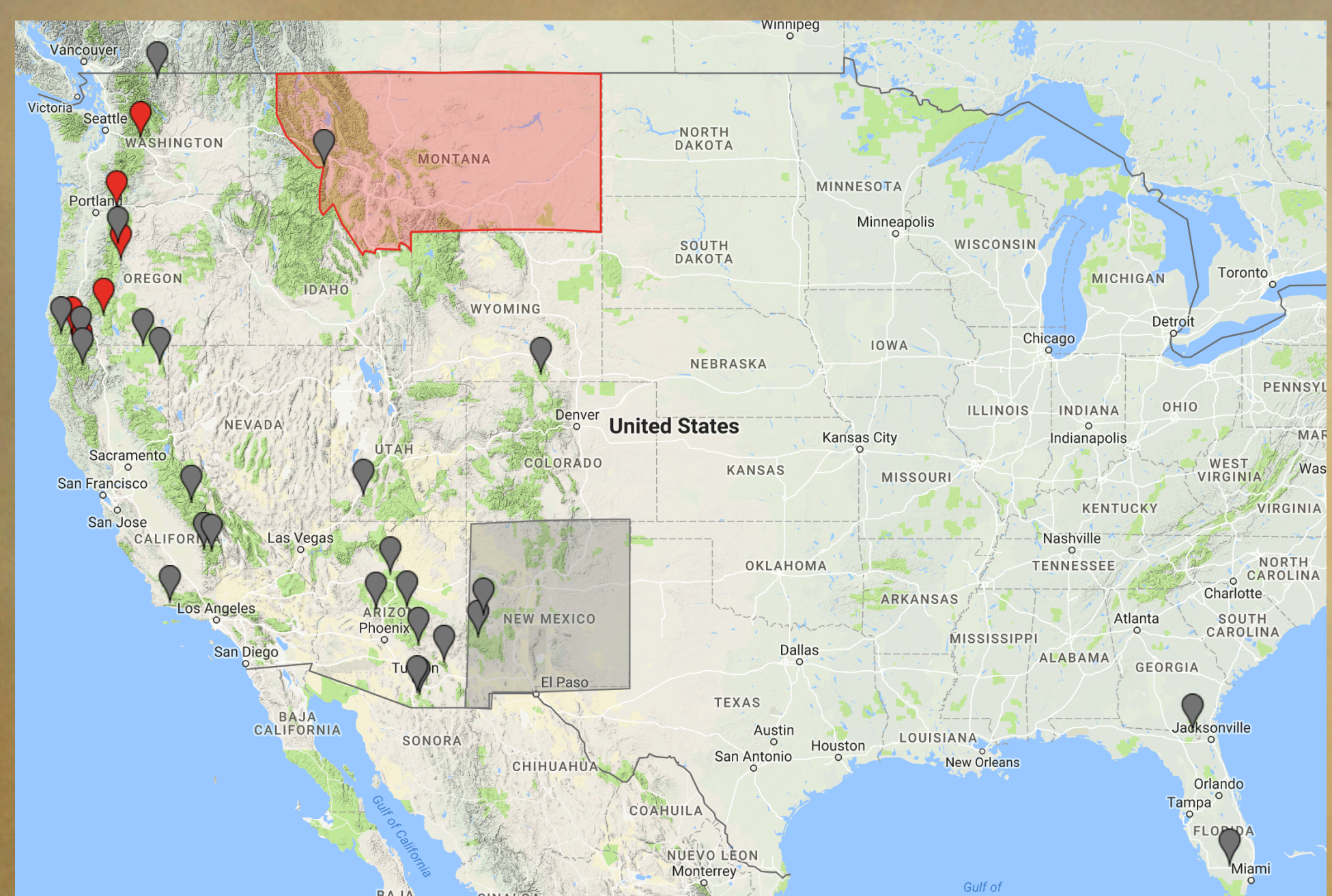


MAIAC Tiger Team

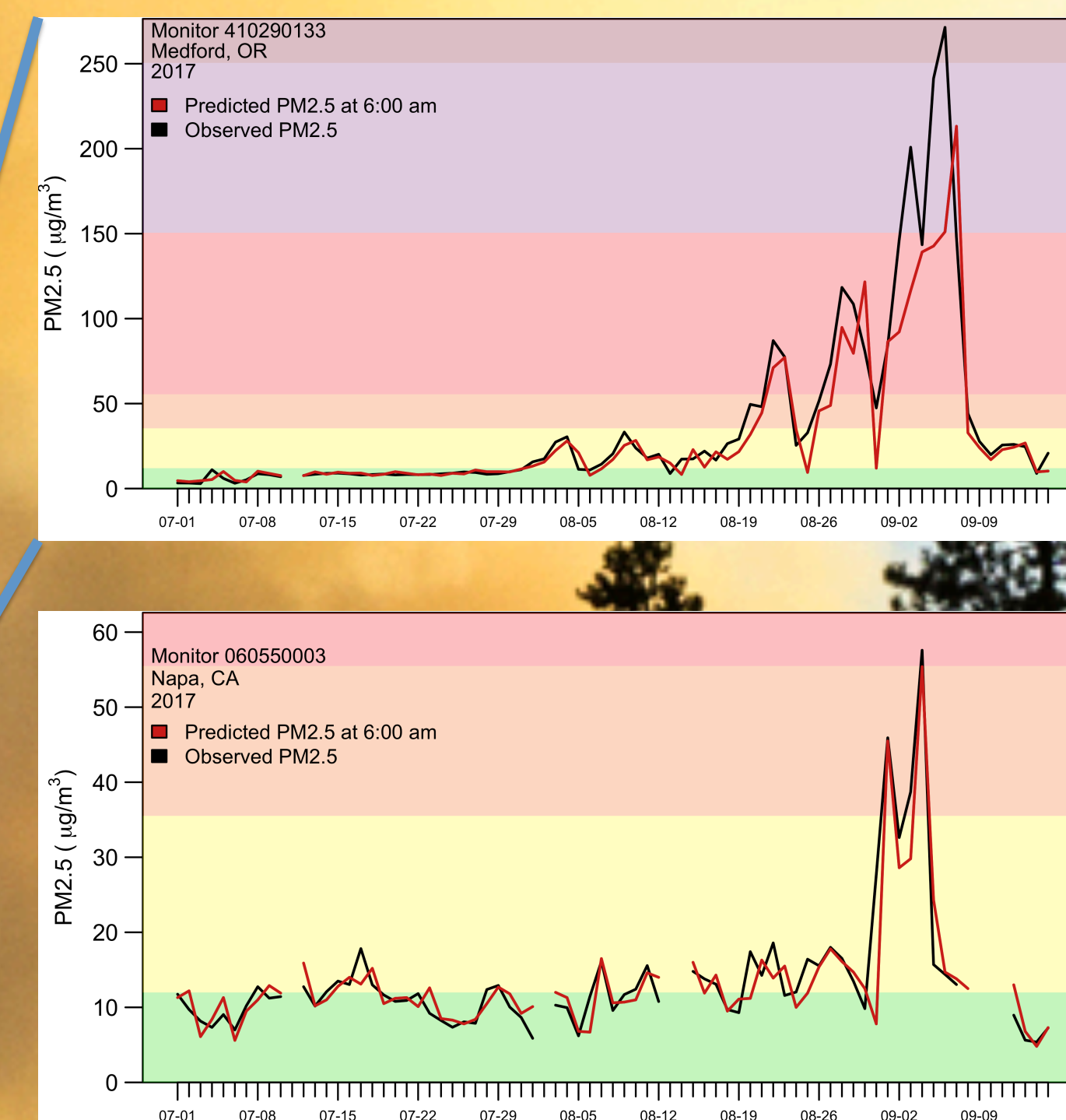
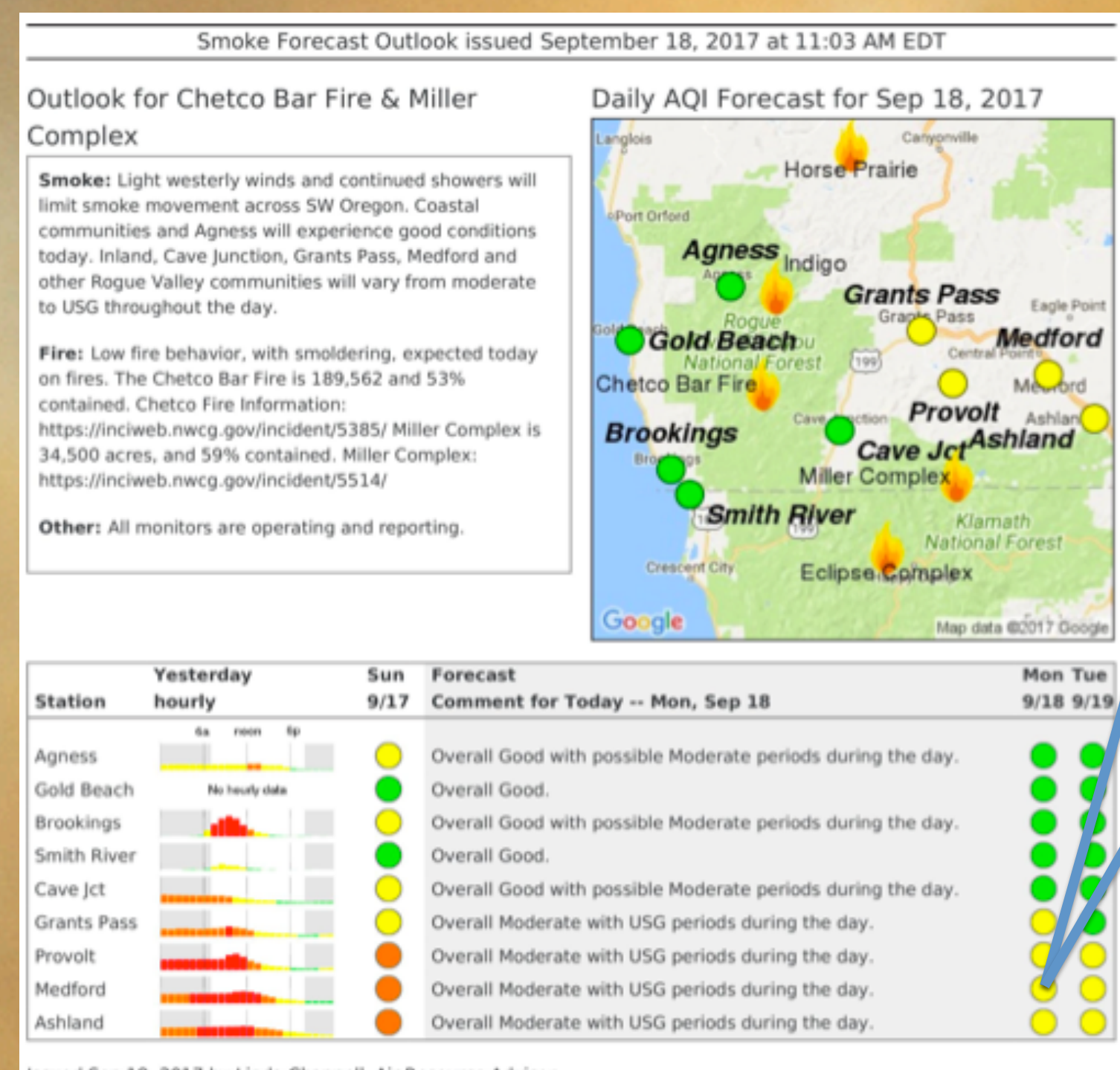
- Sand Wildfire, Soberanes Wildfire
- Ignitions: July 22, 2016
- Figures: July 28, 2016



2017 Wildfire Season Dissemination of Smoke Information



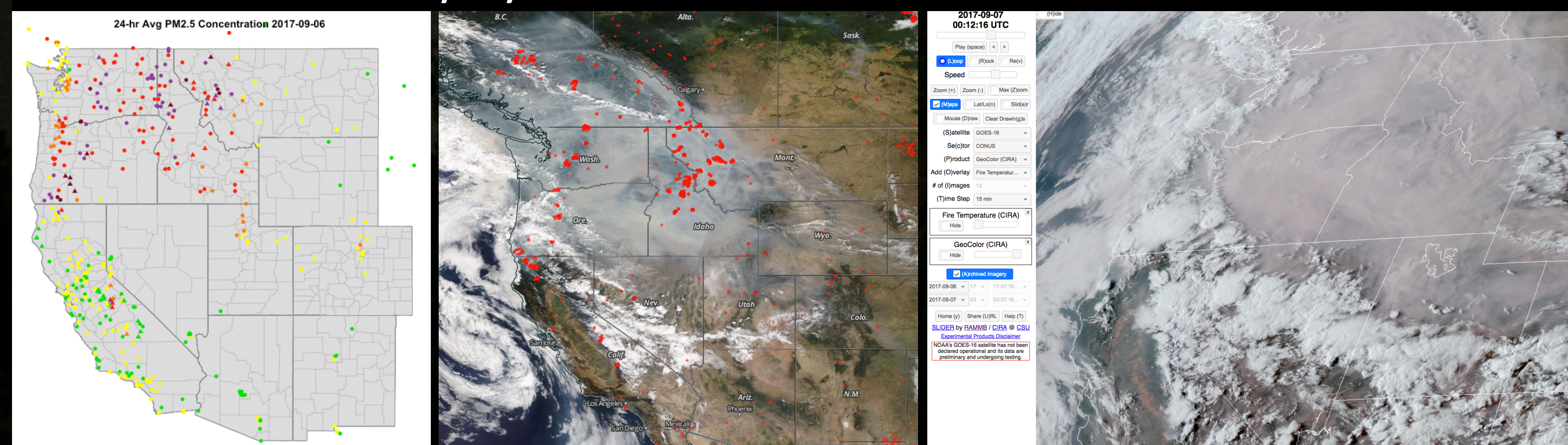
2017 Wildfire Season MODIS AOD and FRP Initialize Smoke Outlooks



WEB DELIVERY

- 1.4 million hits
- 115K hits, Sept 5
- 260,000 unique visitors
- Substantial increase (greater than x2) over 2016

2017 Wildfire Season GOES-16 Used Daily by ARA's and IMET's on IC Teams



Figures (counterclockwise from top): MAIAC Aqua AOT, BlueSky near-surface 1-hr PM2.5 concentrations, EPA AIRNOWTech 24-hr PM2.4 Concentrations and NOAA HMS smoke plume analysis.