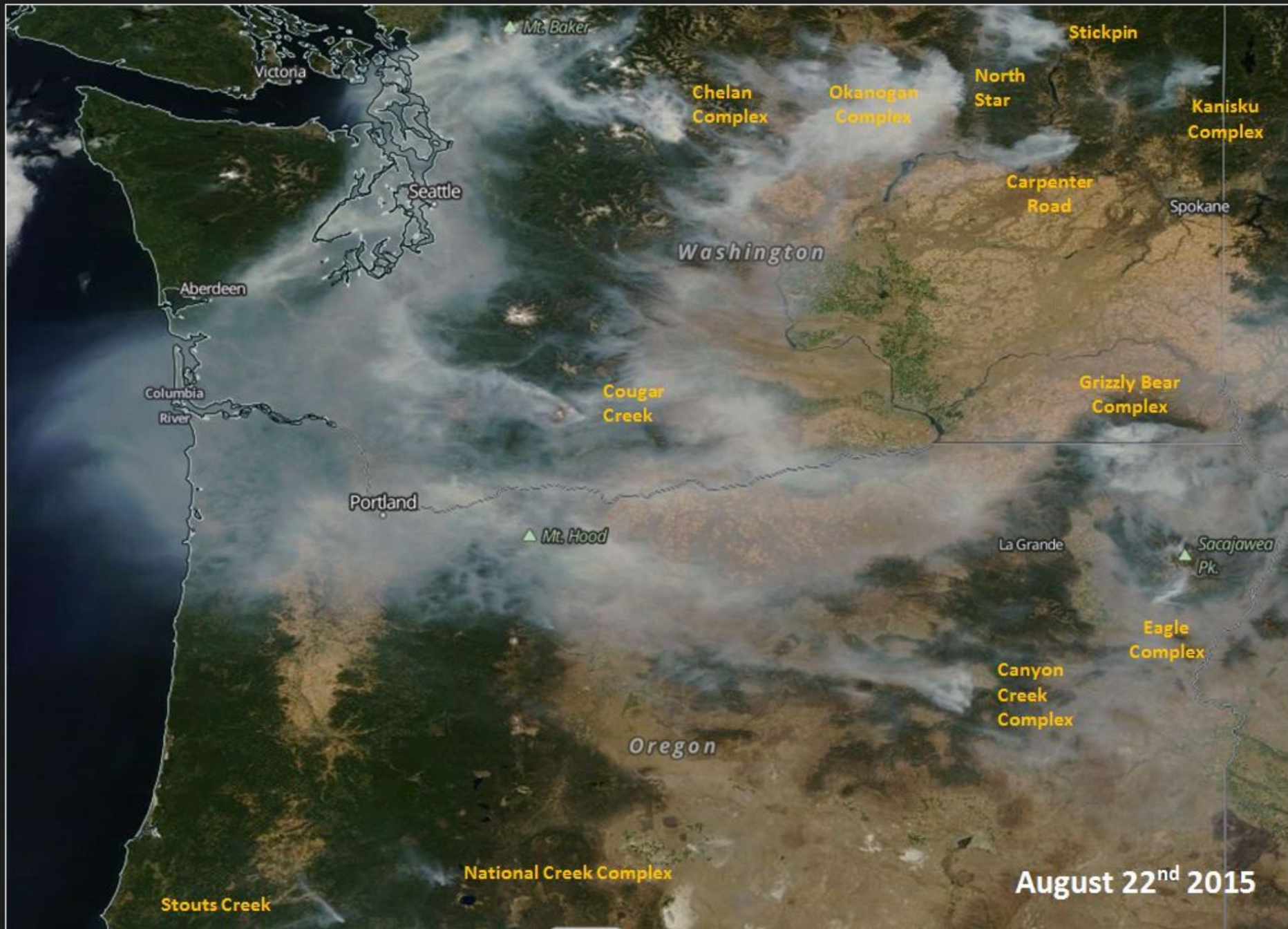


# Wildland Fire Air Quality Response Program

- Operationally addressing smoke from wildfires
  - Public health and safety
  - Public and fire personnel transportation safety
  - Fire personnel smoke exposure
- Monitoring, Modeling, Messaging, Coordination
  - 25 emergency deployable PM2.5 monitors
  - Cadre of 30 Air Resource Advisors and 23 trainees- technical
    - Dispatched primarily to incidents as part of the incident management team
    - Some dispatches to Forest or area needs (multi-fire role)
  - Use of custom designed operational tools for smoke forecasting: USFS Pacific Northwest Research Station–AirFire Team
    - 1) BlueSky PM2.5,
    - 2) Monitoring data analysis tools
    - 3) Complexity Tools,
    - 4) Partnerships – NOAA 1km weather grids
  - Communication Products
    - Daily one page area smoke outlooks (AQI PM2.5 thresholds & advisories), blog posts
    - Daily in depth documentation collected and available [wildlandfiresmoke.net](http://wildlandfiresmoke.net)
    - Public and cooperator on-site meetings
    - Coordinate messages (calls) with state/local/tribal AQ, Health, NWS, schools,...

# Wildland Fire Air Quality Response Program

- Four Training Sessions Held
  - May in Boise
  - 15+ Students / class
- 1<sup>st</sup> Program After Action Review held 4/2015
- Field Assessment 2015: CA, WA, OR
- Continuing Education and refresher webinars
- Guide book under development
- FS, BLM, FWS, NPS, NWS, Quinault Tribe via BIA, NRCS, EPA, AD-Contractor, FL, GA, NC, WA, Orange County-CA
- Based loosely on the NWS Incident Meteorologist (IMET)
- Dispatches: 2011- 5, '12-13, '13-25, '14-39, '15-40, '16-45...
- Assigned: AK, WA, OR, CA, MT, AZ, NM, CO, WY, FL, VA, and NC





# Scale of response and challenges

## ● On-incident Response

- Utilize on-scene knowledge of fire activity and behavior, fuels, consumption, weather, dispersion, local needs and validation
- Direct public interaction
- Combine with other incidents to create larger scale smoke picture
- Performance of forecasts can be impacted by other fire impacts

## ● Multi-fire/state/regional scale response

- Reliance on remote information (fuels, consumption, fire activity, dispersion, impacts)
- Simplified broad-scale forecasting
- Focus on public smoke impacts

## ● National / International Smoke???