



Northern California Smoke Transport and Stability Outlook

Smoke Call Status: **Weekdays (M-F) @ 1300 hrs PDT (except holidays)**

Issued: **12:30 PM PDT Thursday, July 10th, 2025**

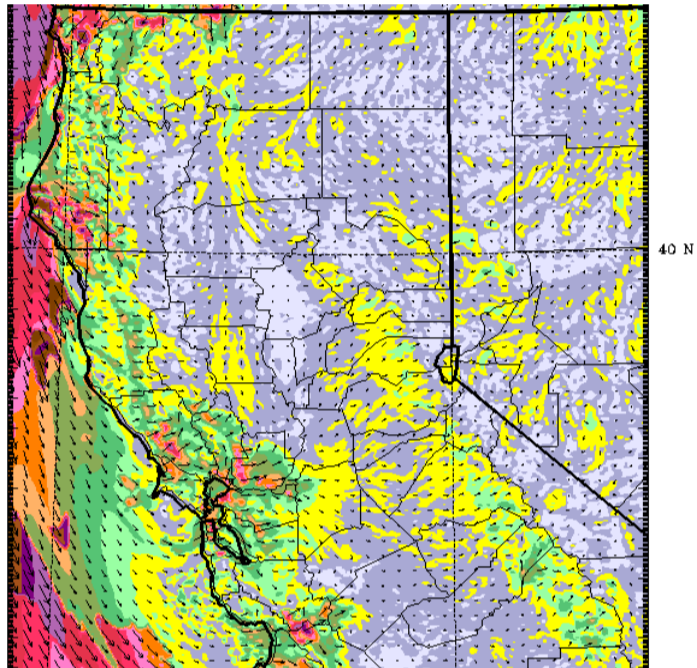
Discussion - Friday & Saturday

Strong high pressure centered S & W of NorCal will bring a northerly flow across N Ops during this time period. Breezy to locally windy N-E winds are likely each night & morning across & to the lee of the ridges & thru the gaps & passes & into the Sac Valley north of the Sac River Delta & bay areas. This will lead to locally mdt-good mixing early each day in those wind areas, esp along the edges of the Sac Valley. Late morning thru the afternoon mixing will be mostly poor to mdt along the coast & a bit inland from some of the coastal ranges and mdt-excellent further inland. Smoke from fires across the N-NW portion of area will transport southward leading to some smoke impacts that will generally be at their worst in the overnight to morning hours with some partial improvement away from the fire source areas in the afternoons-evenings.

Transport Winds

(mph)

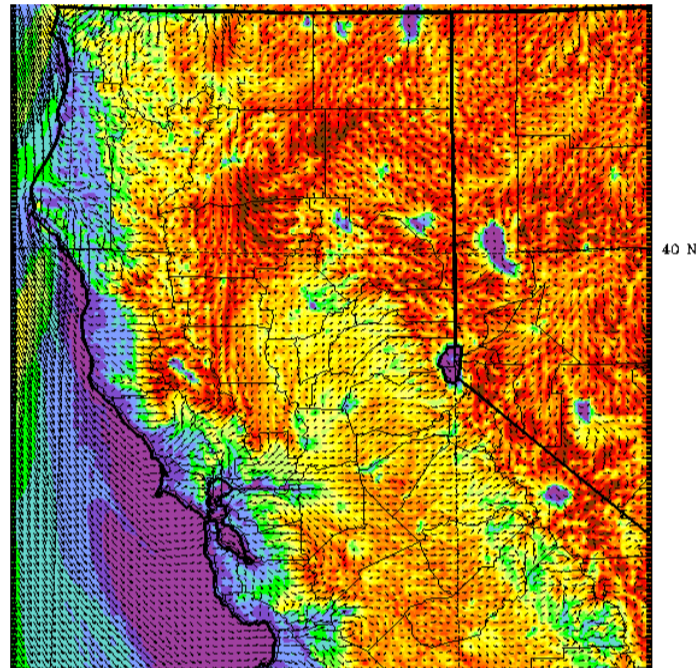
Friday Afternoon



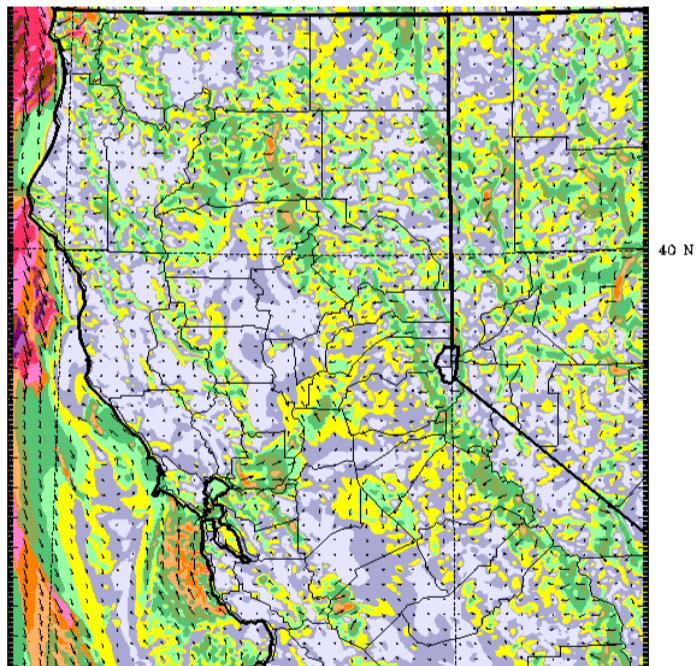
Mixing Heights

(ft AGL)

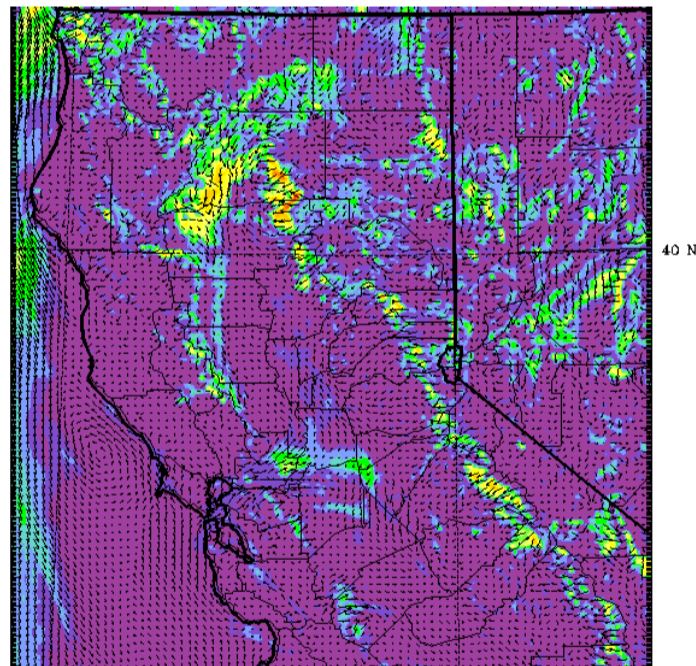
Friday Afternoon



Friday Night



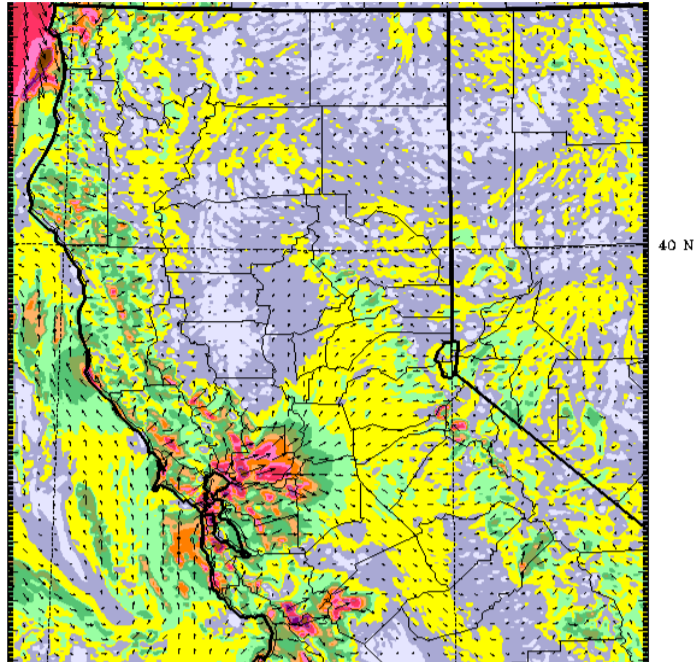
Friday Night



Click on images to enlarge

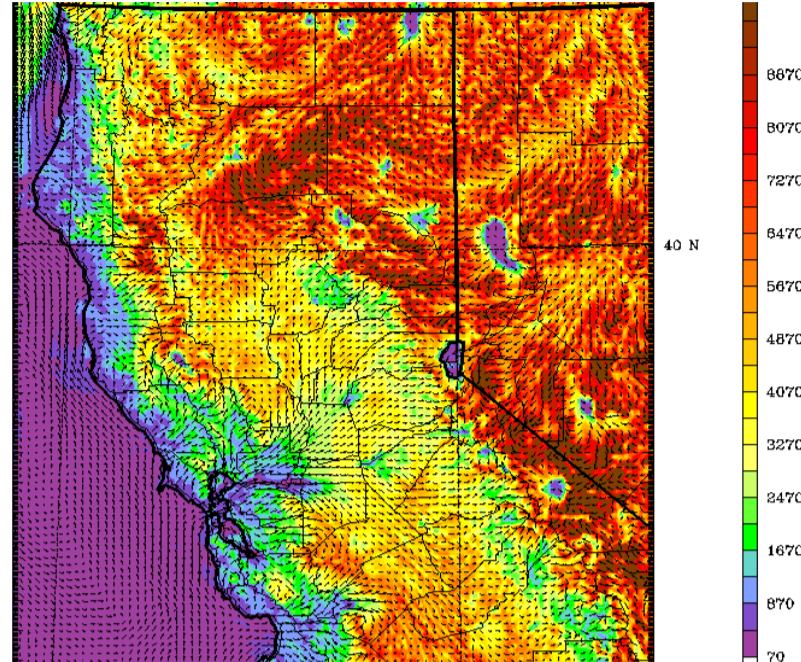
Transport Winds

Saturday Afternoon



Mixing Heights

Saturday Afternoon



Extended Outlook: Sunday - Tuesday

Strong, expansive high pressure across the West will weaken some Mon & Tue and a weak trough gradually develops aloft over the coast. This will be likely to cause the general northerly wind flow to shift to W-SW, mainly in the afternoons & evenings, gradually cooling temps & increasing humidity along & near the coast & thru the Sacramento River Delta area. There will be a slight chance for pop-up showers & T-storms across the the NW Mtns, NE CA, & the Sierras each afternoon-evening. N-E winds are still likely each night-morning across the NW portion of the area, somewhat breezy along & to the lee of the ridges & spilling into the Sac Valley. Mixing is likely to gradually diminish each day, mostly poor along & near the coast & mdt-very good inland, greatest NE, afternoons-evenings.

Helpful Resources:

- [Air Resources Board](#)
- [San Joaquin Air Quality](#)
- [AirNow Fire and Smoke Map](#)
- [North Zone Predictive Services Weather Page](#)
- [South Zone Predictive Services Weather Page](#)
- [NWS California Fire Weather Page](#)
- [NWS Spot Forecast Request](#)



This Product was developed by the Predictive Services group, located at the North Zone Coordination Center in Redding, California