

# High-Impact Weather Briefing

Focus: Thursday 8/1 through Next Week

Weather Forecast Office

Los Angeles, CA

Wednesday, July 31

## Late Week Thunderstorms and Weekend Heat

Ariel Cohen – NWS Los Angeles/Oxnard

Victor Proton – NWS Hanford



# Key Points

- 1. Thunderstorms:** Thursday afternoon to Friday evening, spreading north into the weekend.
- 2. Fire Weather:** Fire Weather Watch expected this afternoon valid from noon Thursday through 8 PM Friday for dry thunderstorms for interior mountains, foothills, and valleys of Los Angeles, Ventura, and Santa Barbara Counties northward through Kern County and Sierra Nevada.
- 3. Excessive rainfall (flash flooding):** Possibility with any wet thunderstorms.
- 4. Heat:** A long duration event beginning Saturday and going through most of next week. Primarily for the interior, like our last few heat events



# Seven Day Hazards Matrix

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 Los Angeles, CA  
 Wednesday, July 31

## WEATHER RISK OUTLOOK

Risk levels incorporate potential impacts from weather hazards and likelihood of occurrence for a reasonable worse case scenario.

	Wed 7/31	Thu 8/1	Fri 8/2	Sat 8/3	Sun 8/4	Mon 8/5	Tue 8/6
Ocean	Fog Wind	Fog	Thunderstorms Fog				
Coasts	Fog	Fog	Thunderstorms	Heat	Surf Heat	Surf Heat	Surf Heat
Valleys		Heat	Heat Thunderstorms	Heat	Heat	Heat	Heat
Mountains	Fire Weather Wind	Heat Thunderstorms	Heat Thunderstorms	Heat Thunderstorms	Heat Thunderstorms	Heat Thunderstorms	Heat
Deserts	Fire Weather Wind	Heat Thunderstorms	Heat Thunderstorms	Heat Thunderstorms	Heat Thunderstorms	Heat Thunderstorms	Heat

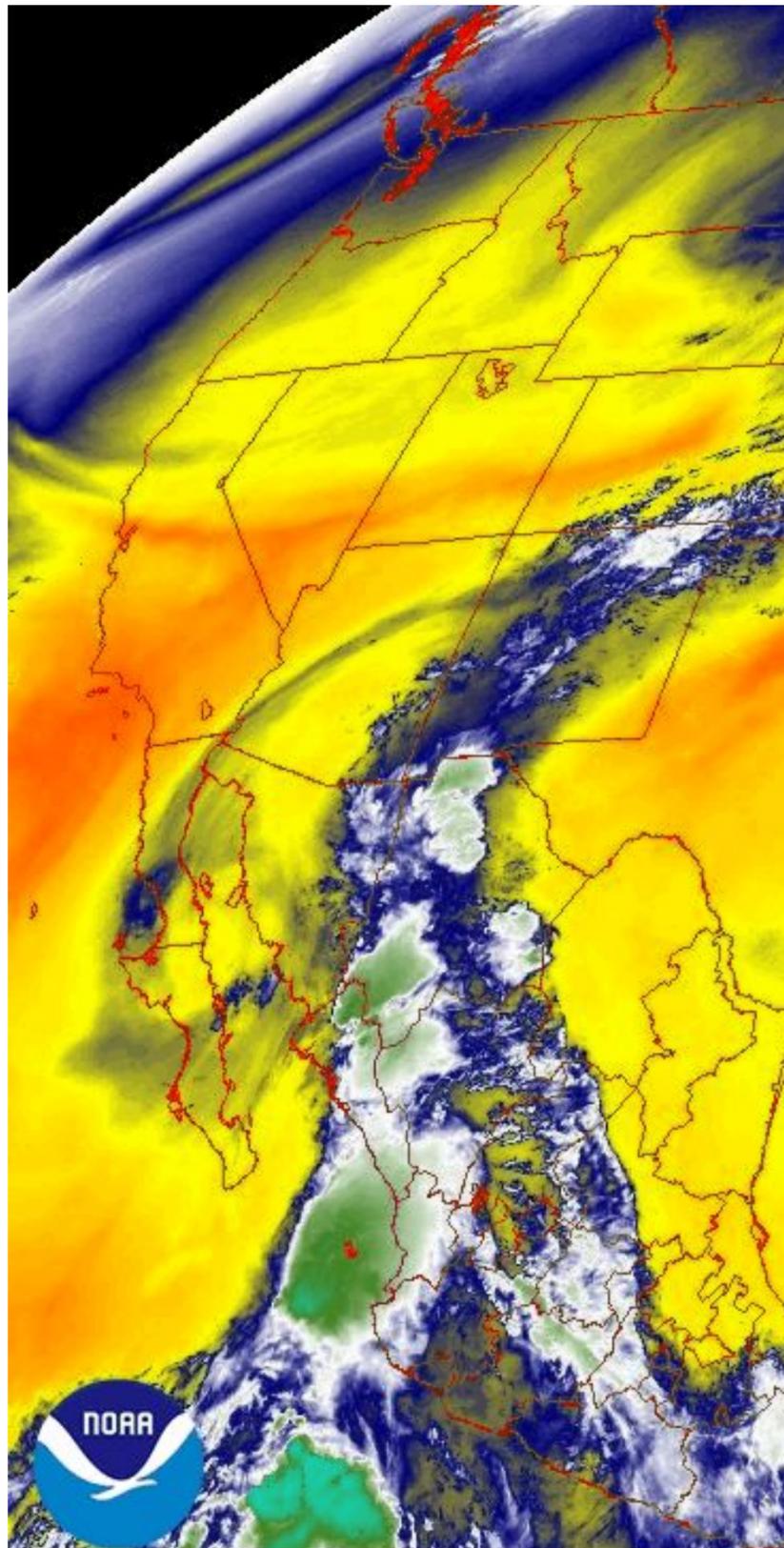
Risk Levels





# Satellite

Weather Forecast Office  
Los Angeles, CA  
Wednesday, July 31



31 Jul 2024 1



# Vorticity (spin)

Weather Forecast Office  
Los Angeles, CA  
Wednesday, July 31





# Vorticity (spin)

Weather Forecast Office  
Los Angeles, CA  
Wednesday, July 31





# Vorticity (spin)

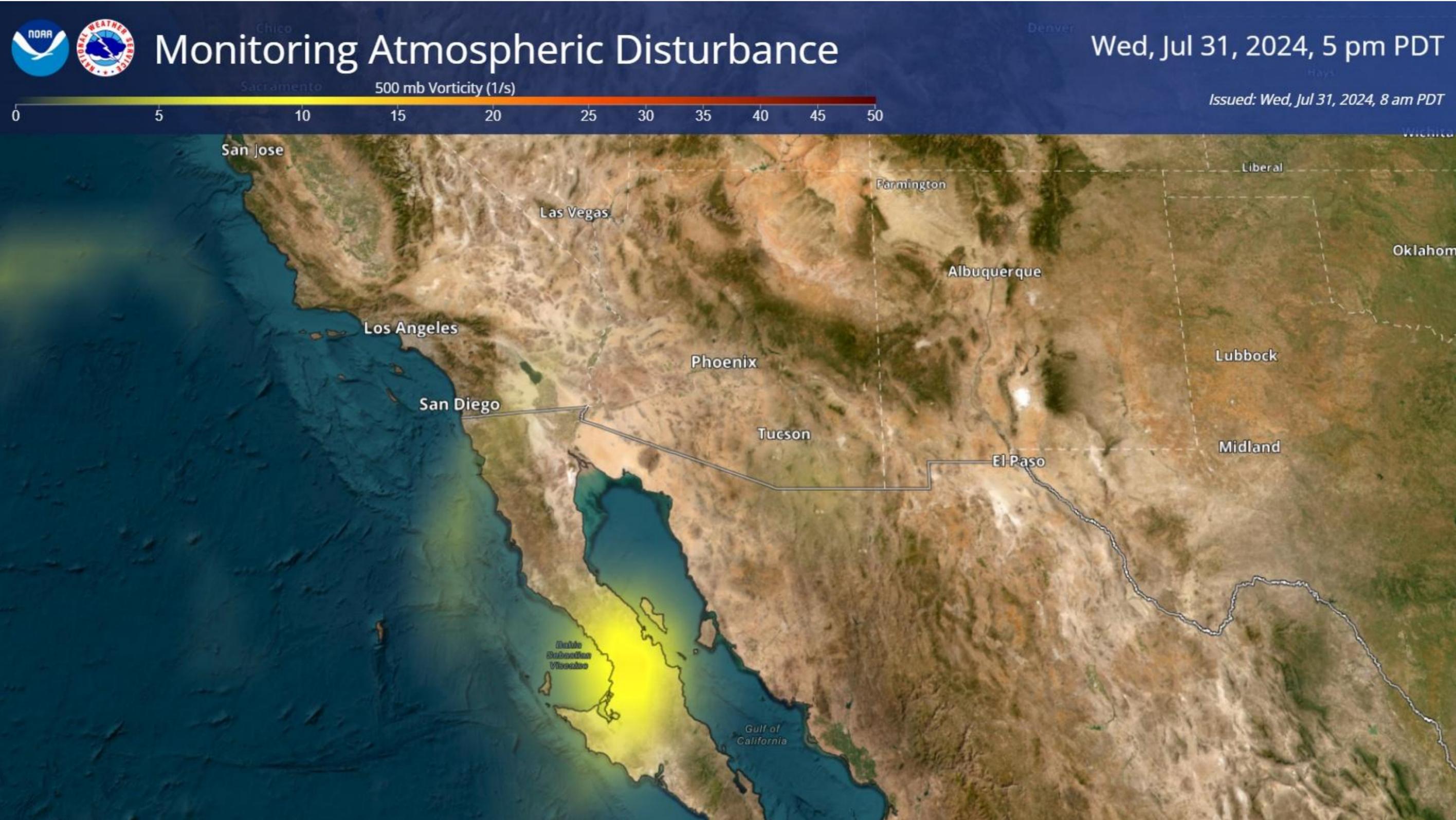
Weather Forecast Office  
Los Angeles, CA  
Wednesday, July 31





# Vorticity (spin)

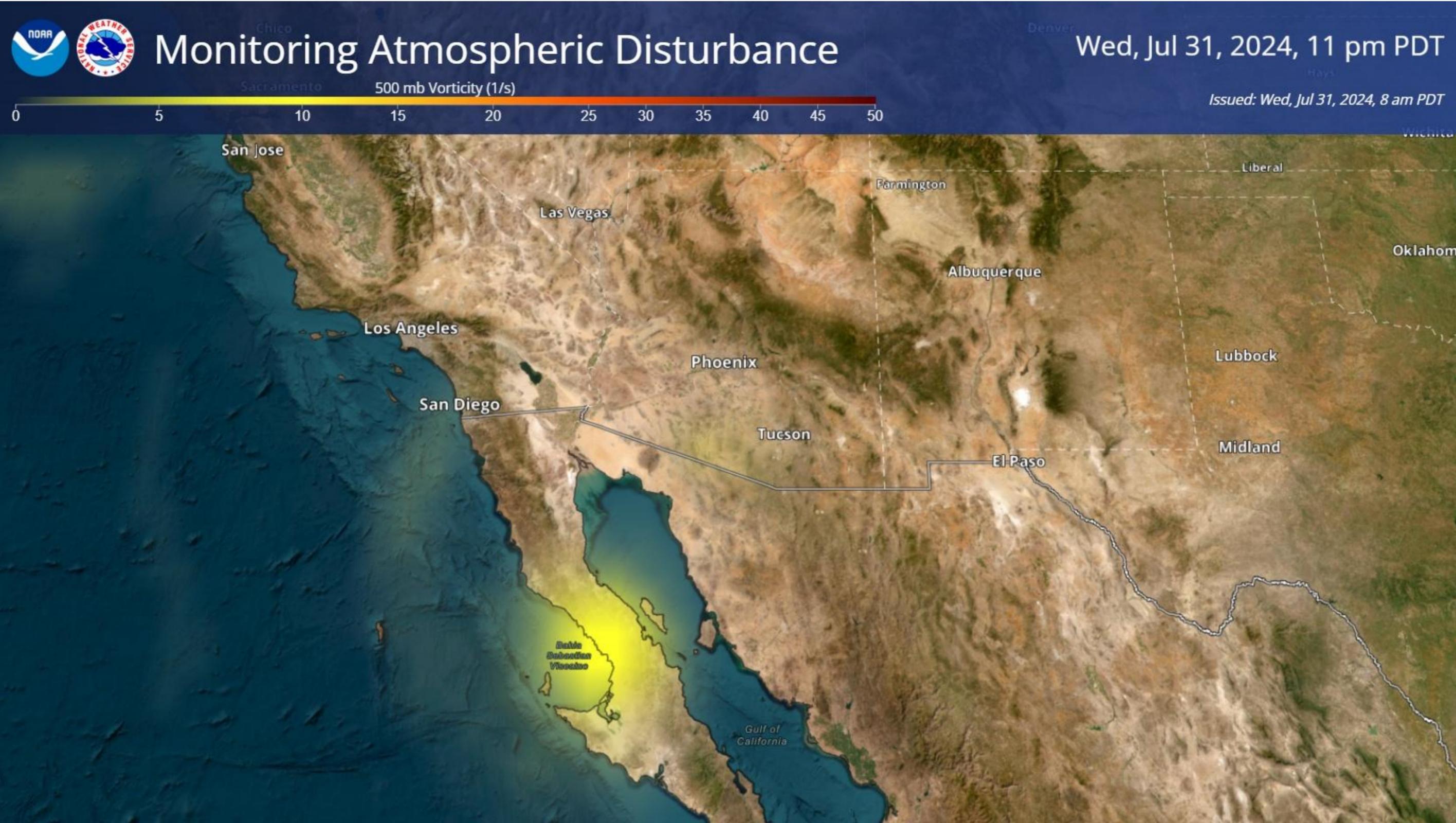
Weather Forecast Office  
Los Angeles, CA  
Wednesday, July 31





# Vorticity (spin)

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# Satellite

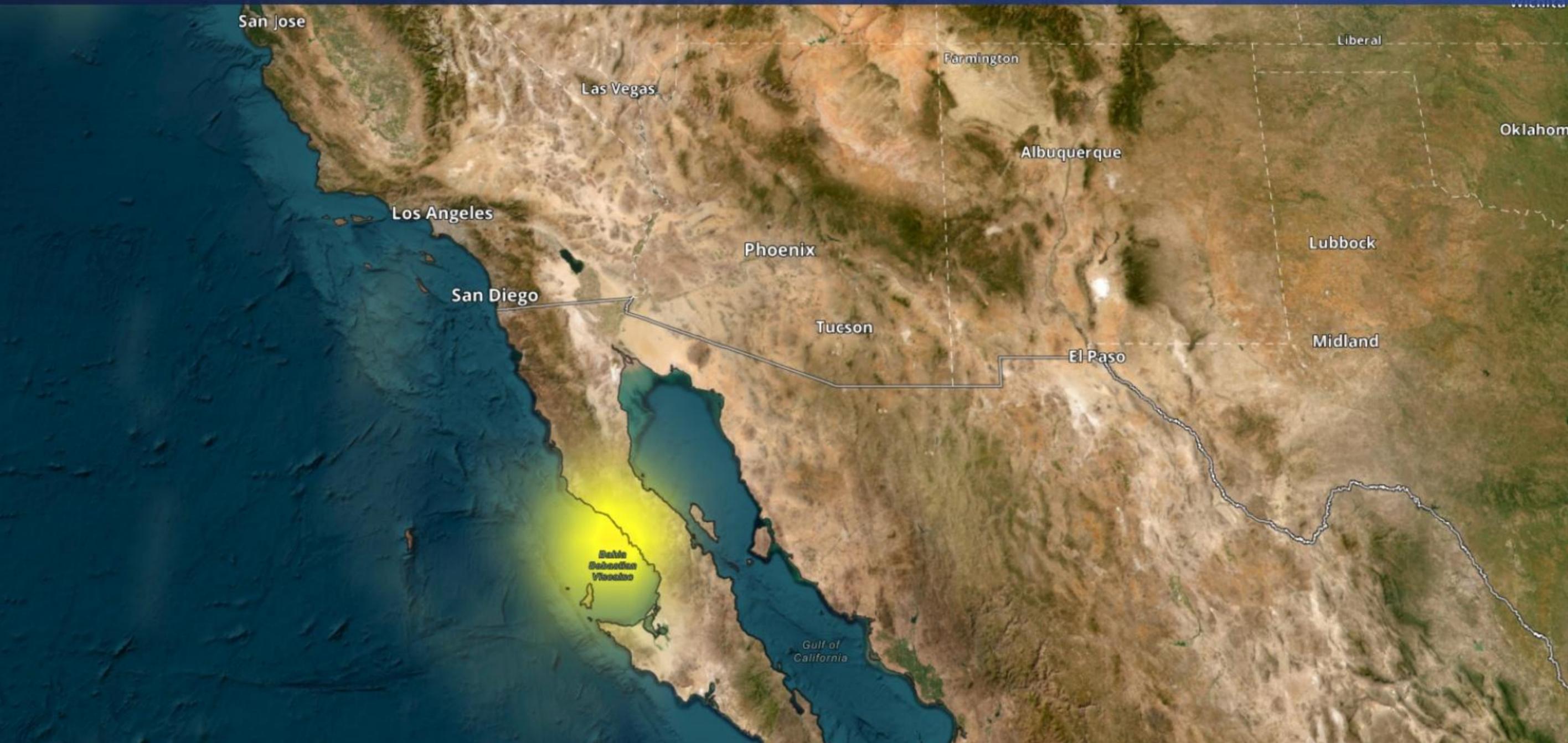
Weather Forecast Office  
Los Angeles, CA  
Wednesday, July 31



## Monitoring Atmospheric Disturbance

Thu, Aug 1, 2024, 5 am PDT

Issued: Wed, Jul 31, 2024, 8 am PDT





# Vorticity (spin)



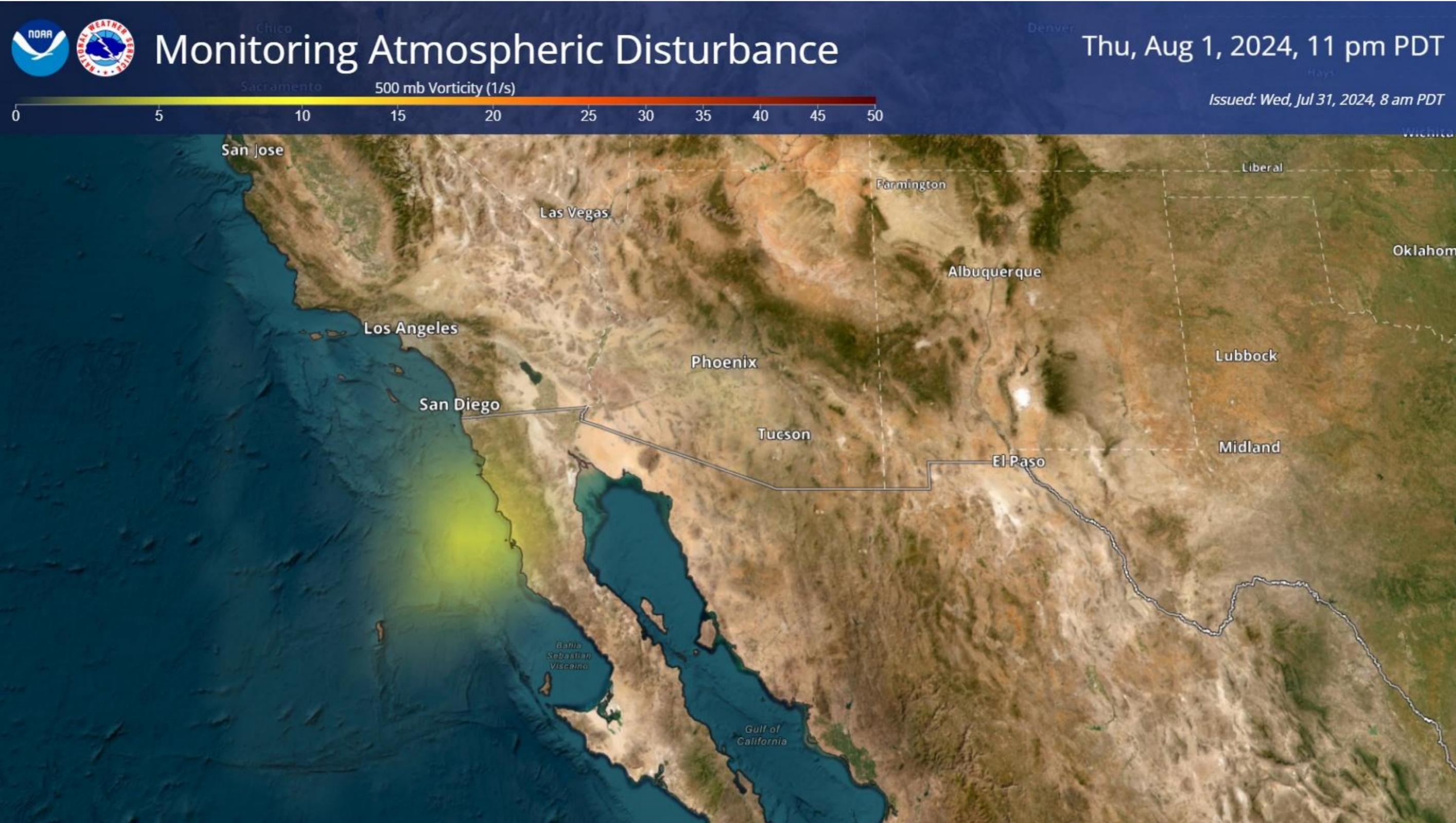


# Vorticity (spin)





# Vorticity (spin)





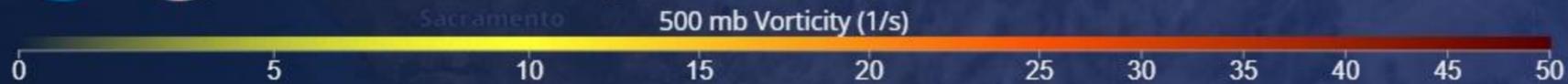
# Vorticity (spin)



## Monitoring Atmospheric Disturbance

Fri, Aug 2, 2024, 5 am PDT

Issued: Wed, Jul 31, 2024, 8 am PDT





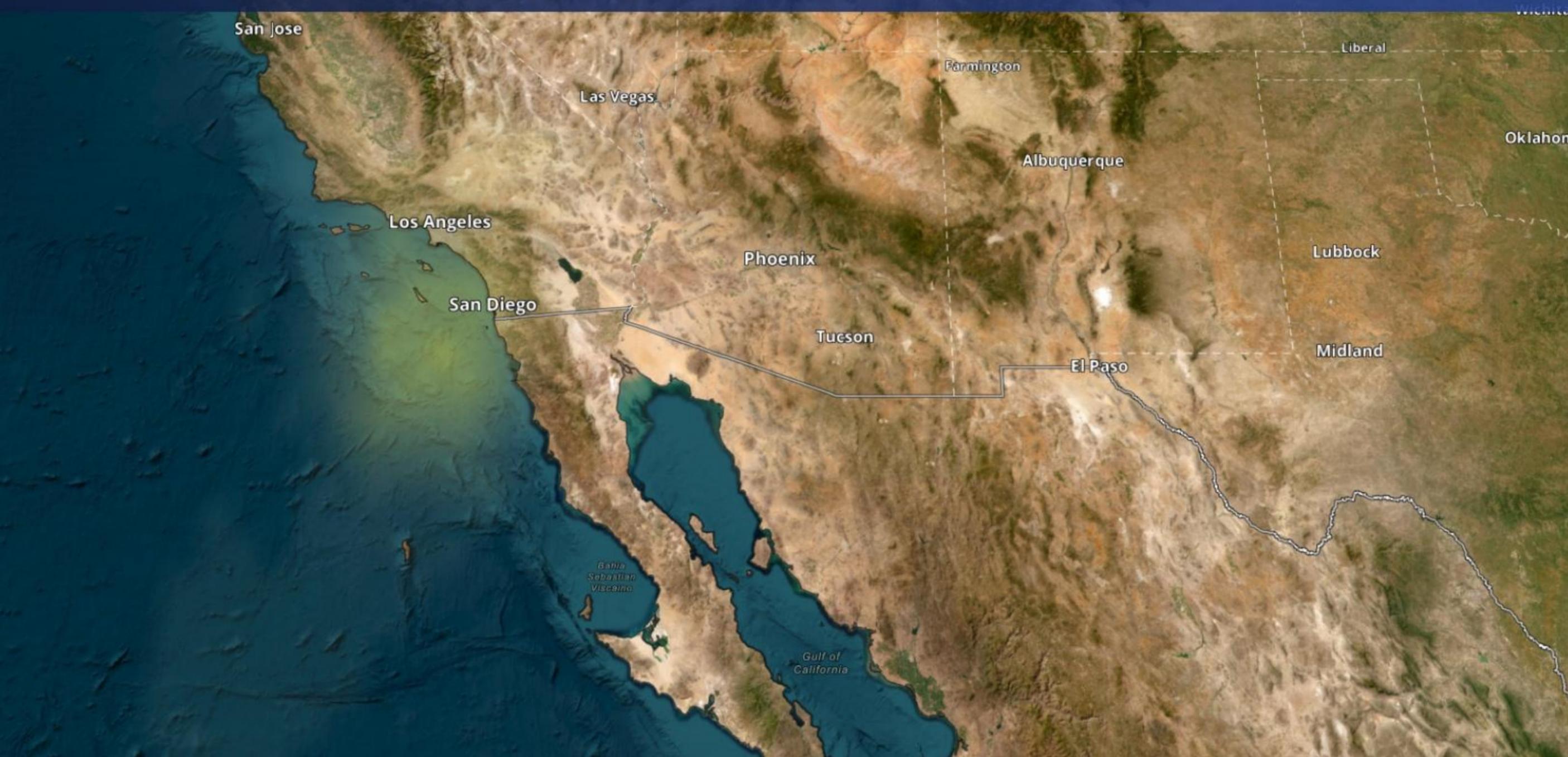
# Vorticity (spin)

Weather Forecast Office  
Los Angeles, CA  
Wednesday, July 31

## Monitoring Atmospheric Disturbance

Fri, Aug 2, 2024, 11 am PDT

Issued: Wed, Jul 31, 2024, 8 am PDT





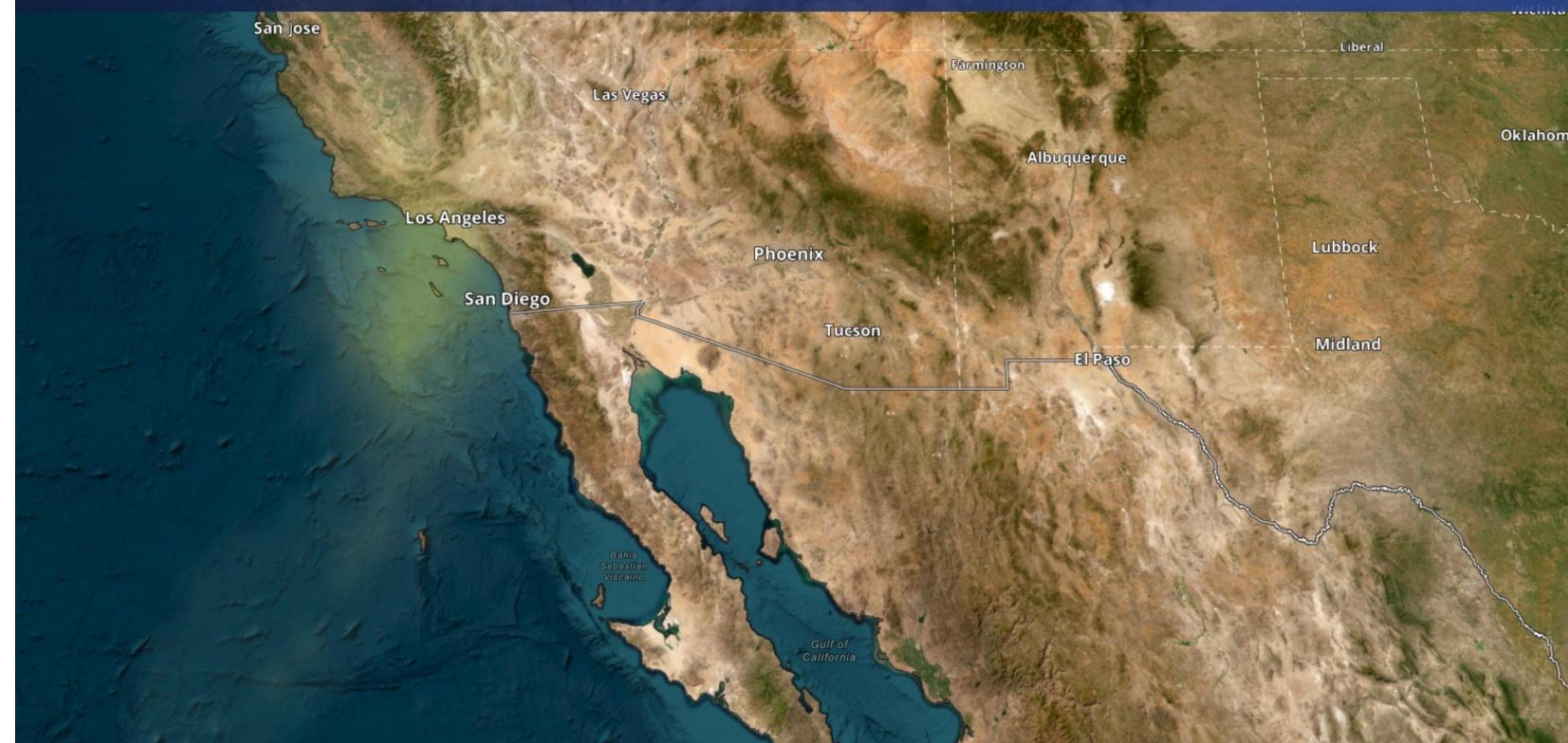
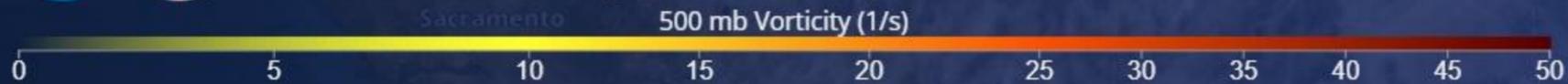
# Vorticity (spin)



## Monitoring Atmospheric Disturbance

Fri, Aug 2, 2024, 5 pm PDT

Issued: Wed, Jul 31, 2024, 8 am PDT





# Vorticity (spin)

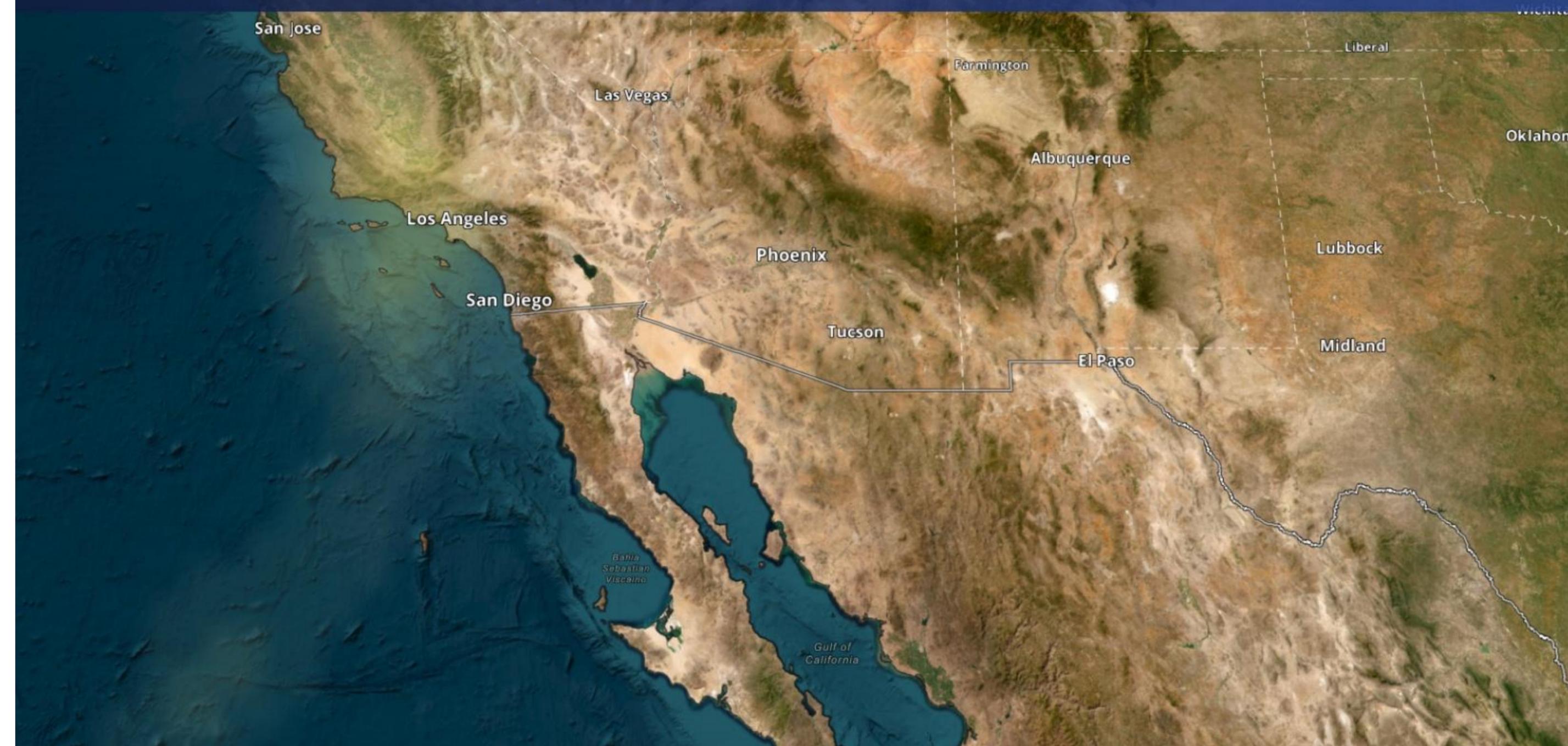
Weather Forecast Office  
Los Angeles, CA  
Wednesday, July 31



## Monitoring Atmospheric Disturbance

Fri, Aug 2, 2024, 11 pm PDT

Issued: Wed, Jul 31, 2024, 8 am PDT





# Vorticity (spin)

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Wednesday, July 31





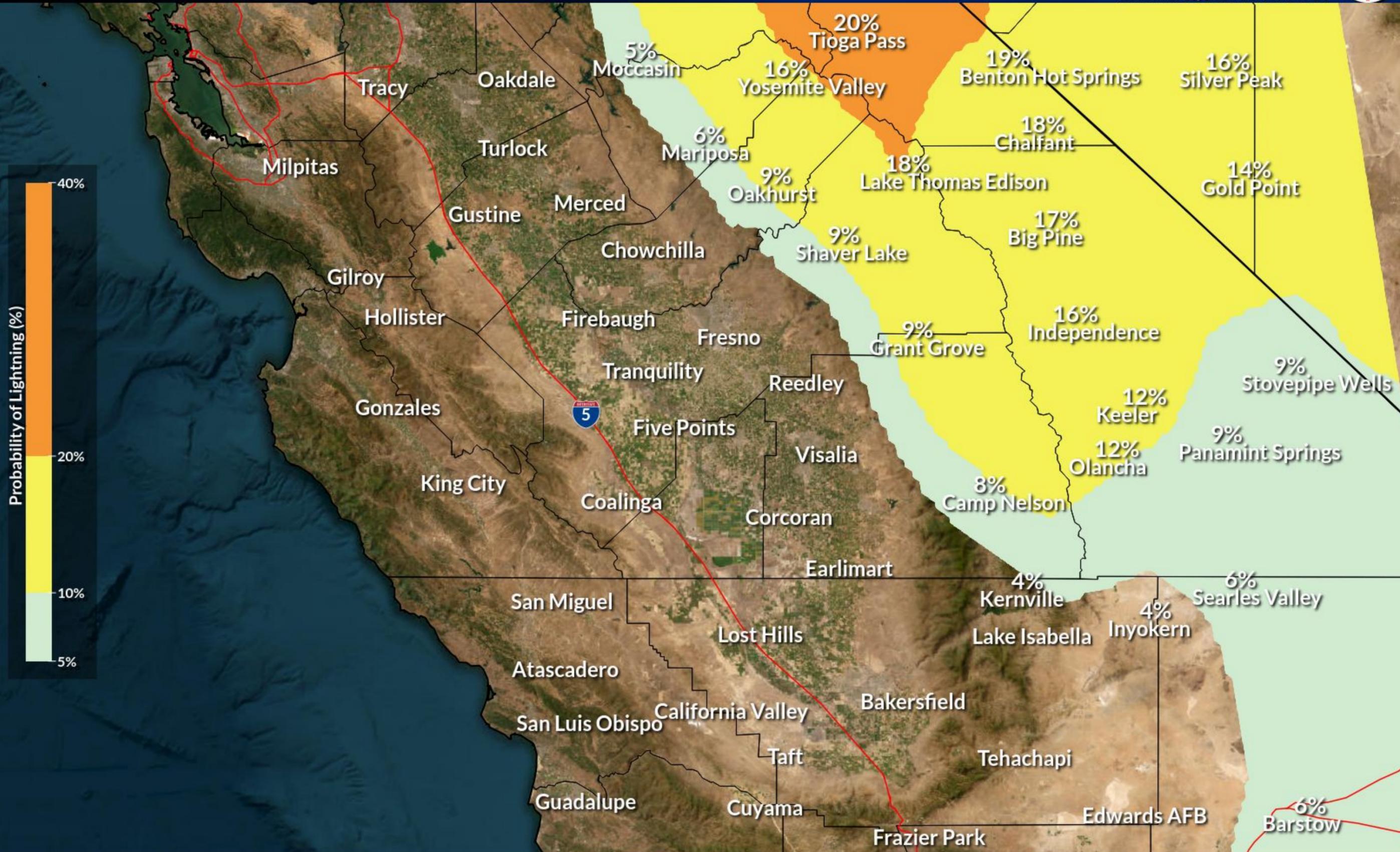


# Probability of Lightning on Saturday

Saturday 11am - Saturday 5pm

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Hanford, CA

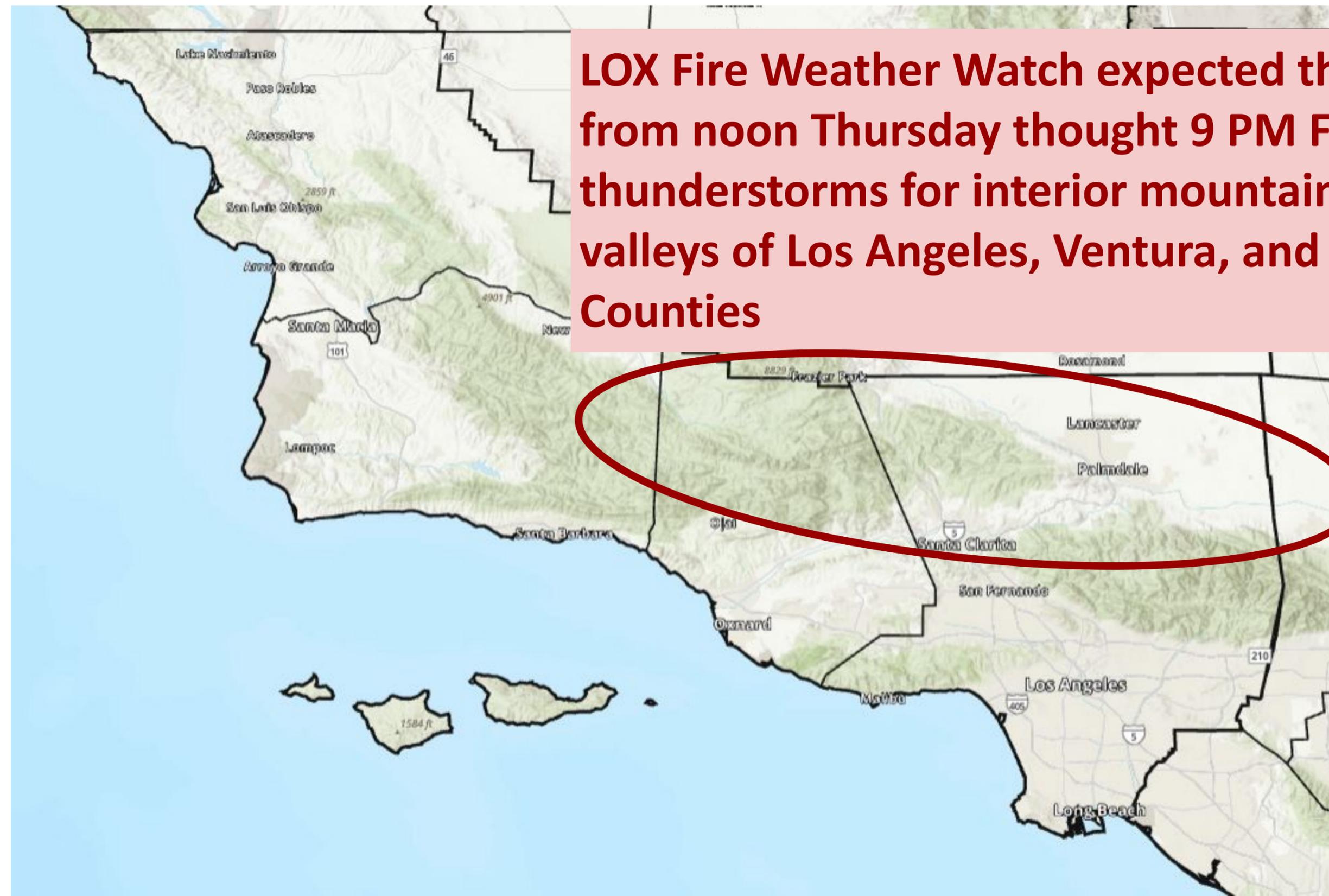
Issued Jul 31, 2024 10:44 AM PDT





# Fire Weather

**LOX Fire Weather Watch expected this afternoon valid from noon Thursday through 9 PM Friday for dry thunderstorms for interior mountains, foothills, and valleys of Los Angeles, Ventura, and Santa Barbara Counties**





# Fire Weather Watch for Thursday Afternoon through Friday Evening

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Hanford, CA  
Wednesday, July 31

## Fire Weather Watch for Dry Thunderstorms

Thursday Afternoon through Friday Evening

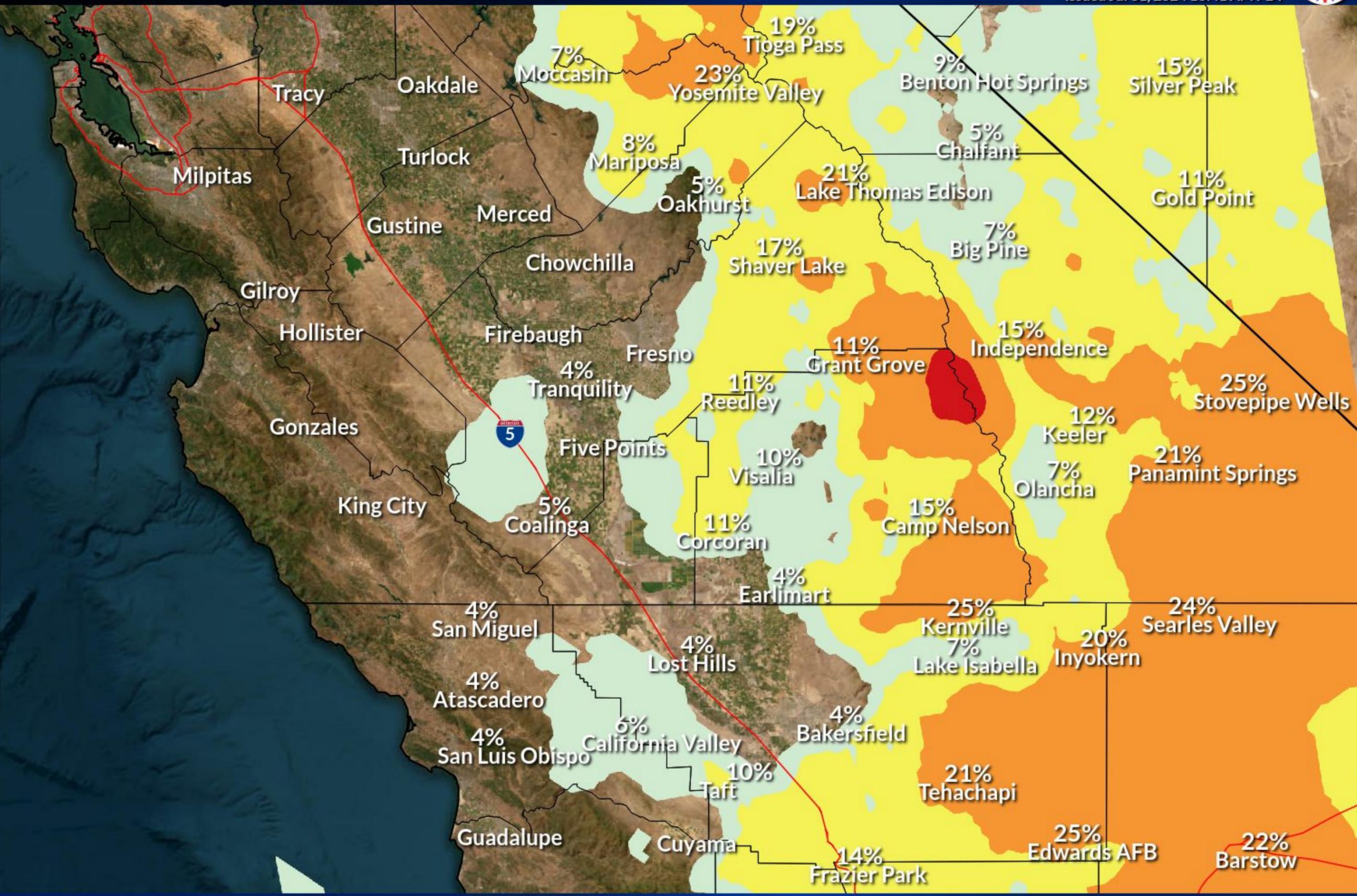
Weather Forecast Office  
Hanford, CA

Issued Jul 31, 2024 10:57 AM PDT



# Probability of 0.10" or more of Rainfall on Friday

Friday 11am - Friday 5pm

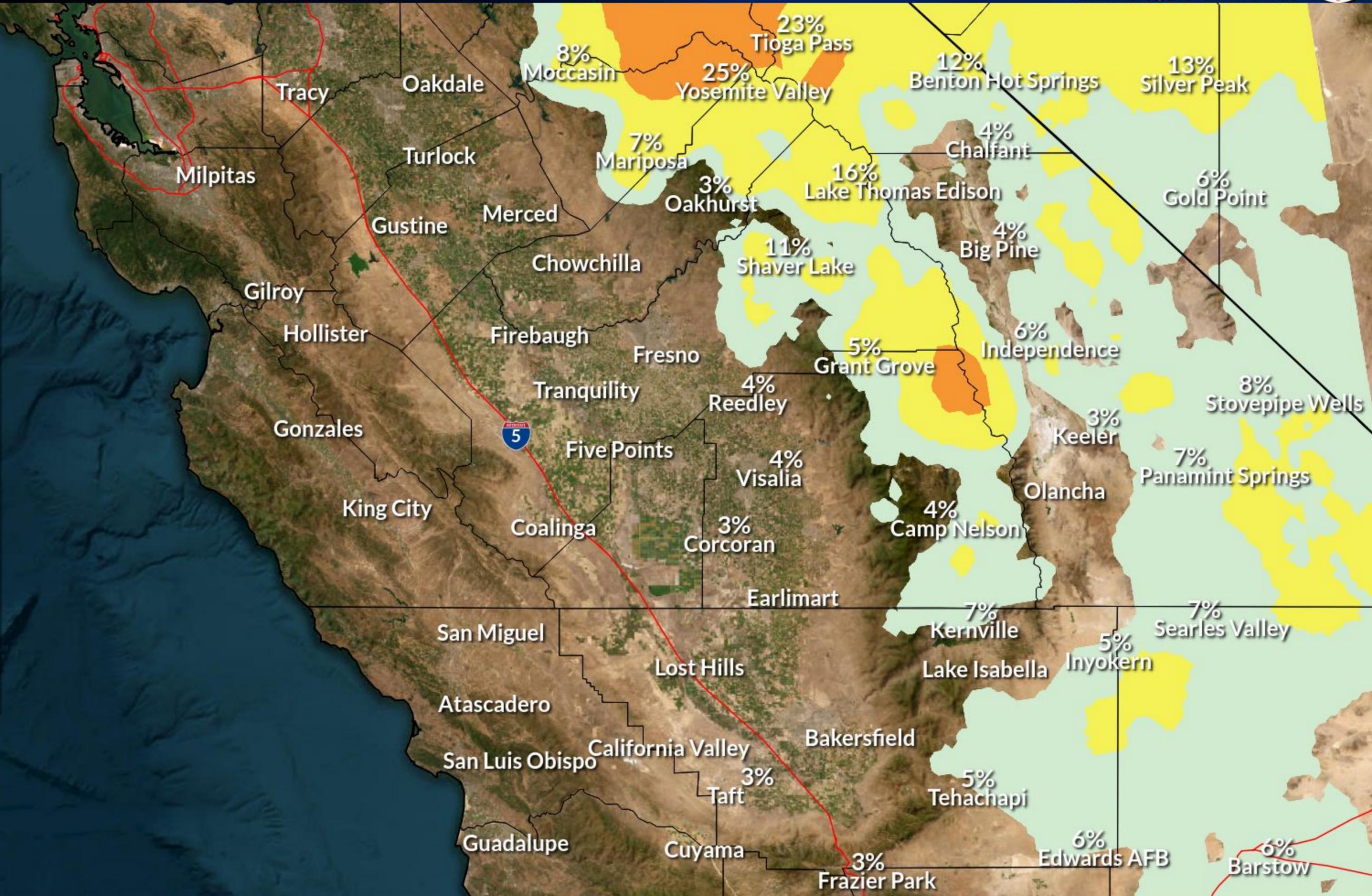


# Probability of 0.10" or more of Rainfall on Saturday

Saturday 11am - Saturday 5pm

Weather Forecast Office  
Hanford, CA

Issued Jul 31, 2024 10:40 AM PDT

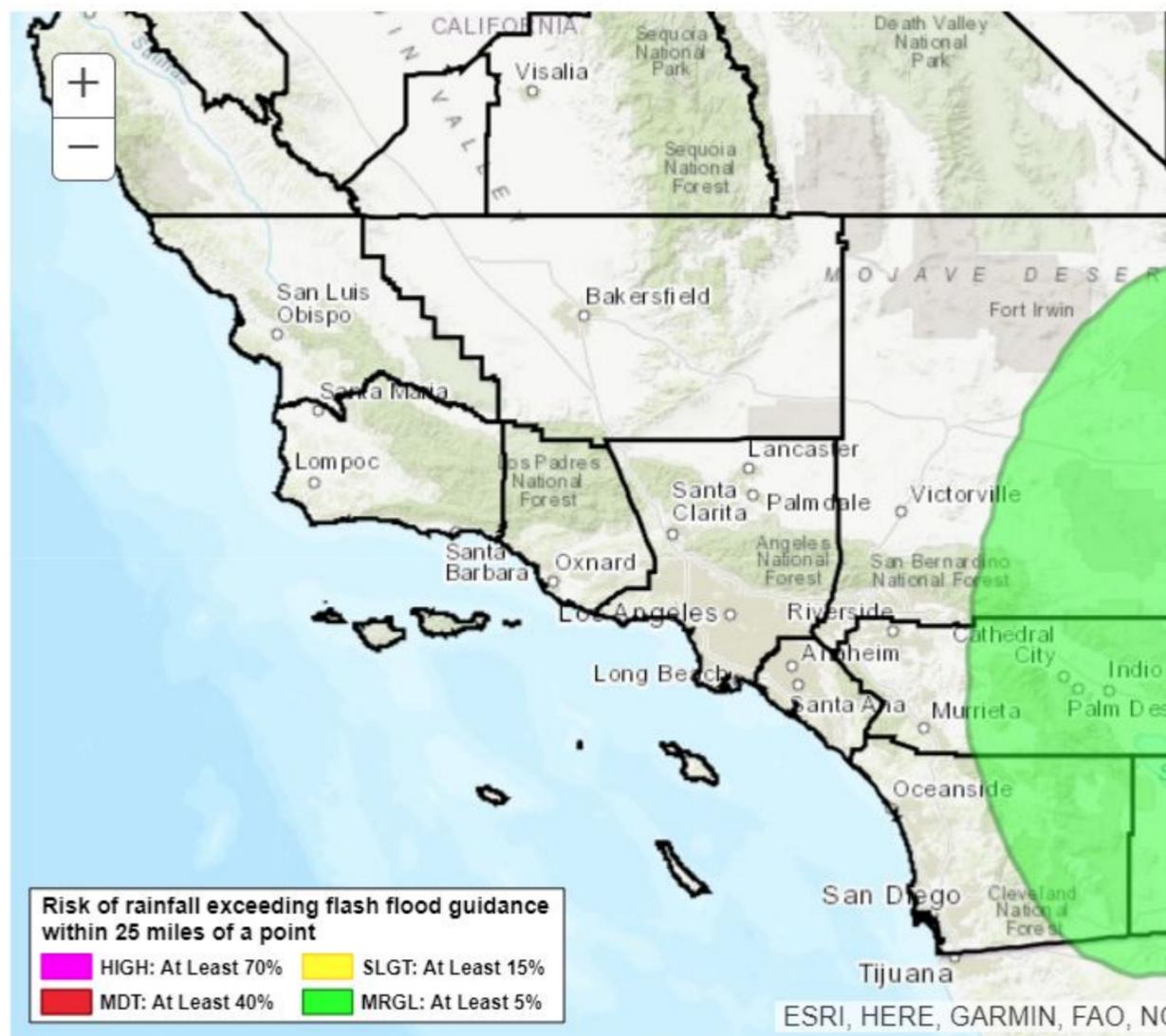




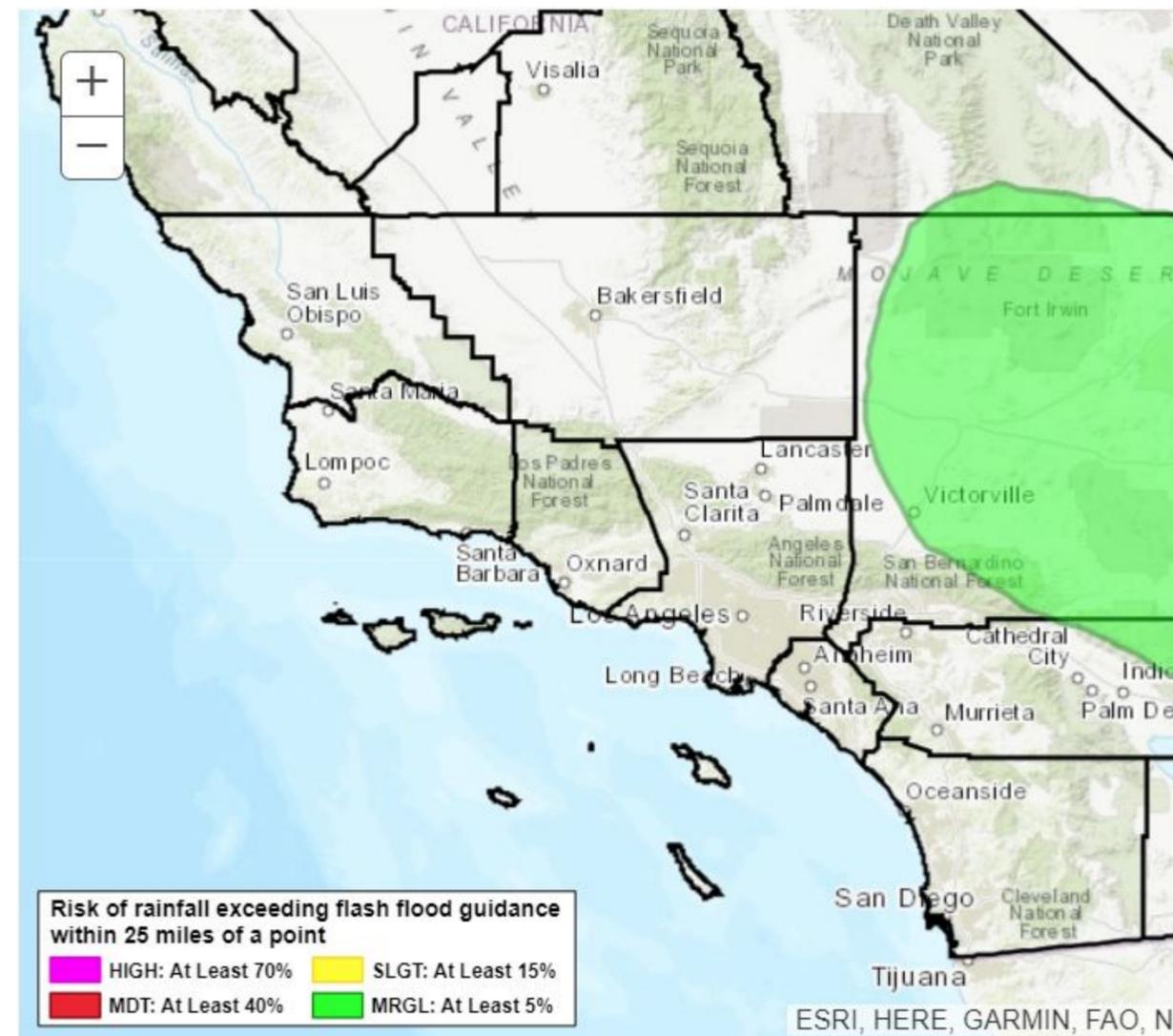
# WPC Excessive Rainfall Outlook: Thu/Fri

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Wednesday, July 31

## Thursday



## Friday





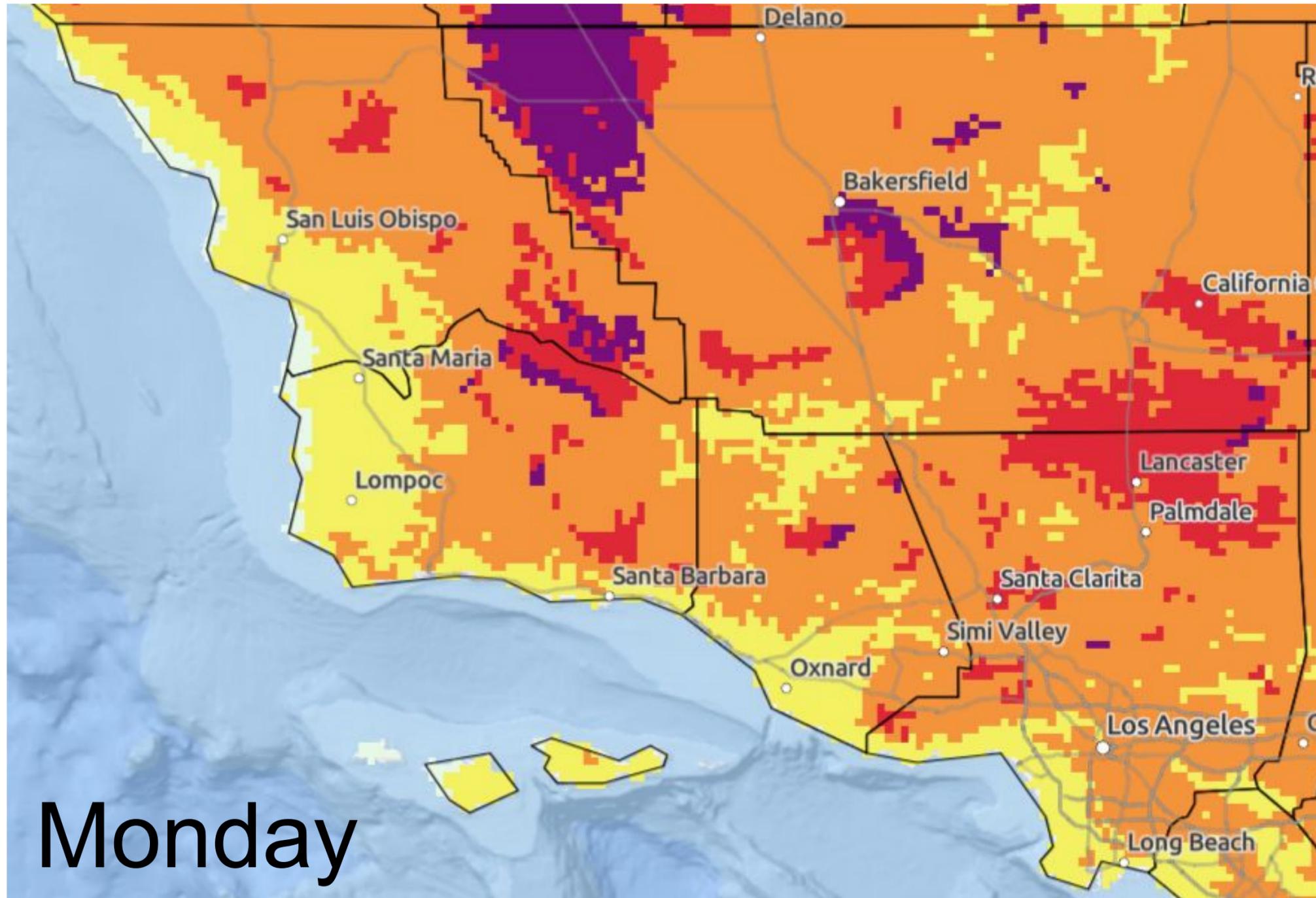
# Burn Scars





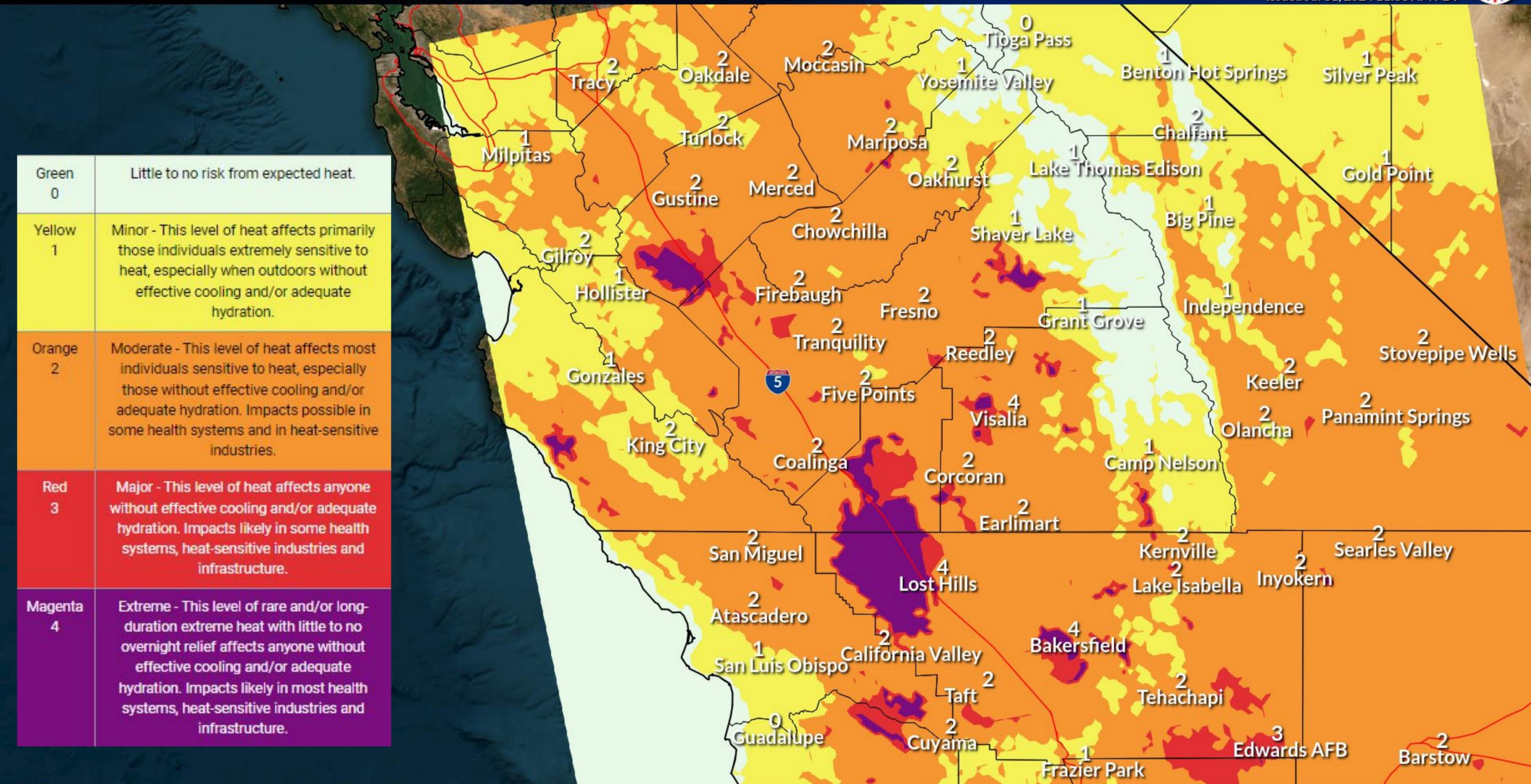
# Heat Risk Saturday through Next Week

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Los Angeles, CA  
Wednesday, July 31



Category	Risk of Heat-Related Impacts
Green 0	Little to no risk from expected heat.
Yellow 1	Minor - This level of heat affects primarily those individuals extremely sensitive to heat, especially when outdoors without effective cooling and/or adequate hydration.
Orange 2	Moderate - This level of heat affects most individuals sensitive to heat, especially those without effective cooling and/or adequate hydration. Impacts possible in some health systems and in heat-sensitive industries.
Red 3	Major - This level of heat affects anyone without effective cooling and/or adequate hydration. Impacts likely in some health systems, heat-sensitive industries and infrastructure.
Magenta 4	Extreme - This level of rare and/or long-duration extreme heat with little to no overnight relief affects anyone without effective cooling and/or adequate hydration. Impacts likely in most health systems, heat-sensitive industries and infrastructure.

# HeatRisk Monday Aug 5th



Green 0	Little to no risk from expected heat.
Yellow 1	Minor - This level of heat affects primarily those individuals extremely sensitive to heat, especially when outdoors without effective cooling and/or adequate hydration.
Orange 2	Moderate - This level of heat affects most individuals sensitive to heat, especially those without effective cooling and/or adequate hydration. Impacts possible in some health systems and in heat-sensitive industries.
Red 3	Major - This level of heat affects anyone without effective cooling and/or adequate hydration. Impacts likely in some health systems, heat-sensitive industries and infrastructure.
Magenta 4	Extreme - This level of rare and/or long-duration extreme heat with little to no overnight relief affects anyone without effective cooling and/or adequate hydration. Impacts likely in most health systems, heat-sensitive industries and infrastructure.



# Long Duration Event



## Chance of Max Temperatures Greater Than 100°F

Wednesday Afternoon, Jul 31 - Saturday Afternoon, Aug 10

	Wed 7/31	Thu 8/1	Fri 8/2	Sat 8/3	Sun 8/4	Mon 8/5	Tue 8/6	Wed 8/7	Thu 8/8	Fri 8/9	Sat 8/10
Burbank	0%	0%	0%	0%	0%	5%	10%	5%	1%	3%	0%
Cuyama	0%	15%	5%	50%	55%	45%	60%	65%	50%	30%	20%
Palmdale	25%	70%	70%	90%	96%	95%	95%	95%	80%	75%	70%
Paso Robles	10%	35%	55%	75%	50%	60%	75%	80%	60%	40%	35%
Santa Clarita	0%	10%	30%	50%	55%	65%	75%	70%	45%	25%	20%

Percent Chance (%)

### Information:

The table displays the percent chance of a weather event occurring based on model predictions from the National Blend of Models. A higher number means greater certainty.

## Additional Details



### Potential Impacts:

- Long duration heat event



### What To Do:

- Stay hydrated, Dress for hot weather, Avoid prolonged sun exposure

Valid: Wed 05 pm PDT - Sat 05 pm PDT

Issued: Wed, Jul 31, 2024, 10 am PDT





# Chance of Max Temperatures Greater Than 105°F

Wednesday Afternoon, Jul 31 - Wednesday Afternoon, Aug 7

	Wed 7/31	Thu 8/1	Fri 8/2	Sat 8/3	Sun 8/4	Mon 8/5	Tue 8/6	Wed 8/7
Bakersfield	0%	20%	10%	50%	60%	60%	75%	55%
Coalinga	0%	5%	10%	35%	40%	45%	65%	55%
Fresno	0%	5%	5%	25%	35%	40%	55%	45%
Hanford	0%	5%	4%	25%	35%	40%	60%	45%
Madera	0%	4%	4%	15%	25%	20%	40%	40%
Merced	0%	2%	5%	15%	25%	20%	35%	35%
Oakhurst	0%	0%	0%	0%	0%	2%	5%	5%
Ridgecrest	60%	90%	60%	90%	100%	99%	95%	95%
Visalia	0%	25%	10%	50%	55%	55%	75%	65%

Percent Chance (%)

## Additional Details



### Potential Impacts:

- Heat Exhaustion
- Heat Stroke
- Dehydration



### What To Do:

- Hydrate
- Use Air Conditioning
- Wear Light and Loose Fitting Clothing

Valid: Wed 05 pm PDT - Wed 05 pm PDT

Issued: Wed, Jul 31, 2024, 1 am PDT



### Information:

The table displays the percent chance of a weather event occurring based on model predictions from the National Blend of Models. A higher number means greater certainty.



# Summary

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Los Angeles, CA  
Wednesday, July 31

- 1. Thunderstorms:** Thursday afternoon to Friday evening, spreading north into the weekend.
- 2. Fire Weather:** Fire Weather Watch expected this afternoon valid from noon Thursday through 8 PM Friday for dry thunderstorms for interior mountains, foothills, and valleys of Los Angeles, Ventura, and Santa Barbara Counties northward through Kern County and Sierra Nevada.
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# Thank You!

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Los Angeles, CA  
Wednesday, July 31

## Questions?

*Note: No Partner Email today, replaced by this webinar*



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