

# Atmospheric River Event

Wednesday and Thursday

**Presenter: Eric Boldt** 

Weather Forecast Office
Los Angeles, CA
Tuesday, January 3

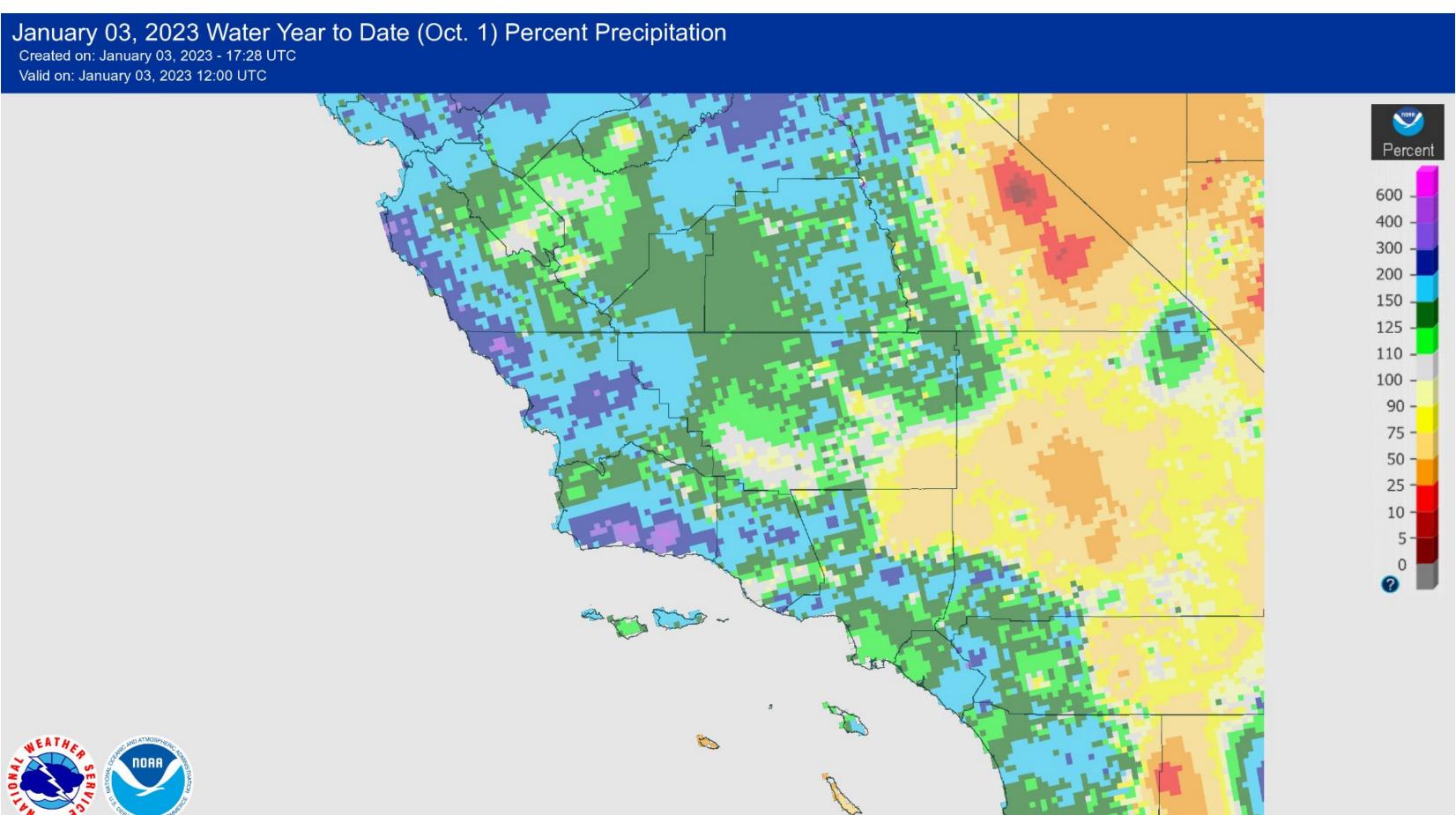


- Dangerous flood situation Wednesday night through Thursday
  - Urban and small stream flash flooding
  - Higher risk of flash flooding compared to New Year's Eve event
  - All 1-2 year burn scars will be susceptible to mud and debris flows
  - Significant flows on mainstem rivers potential flooding can not be ruled out

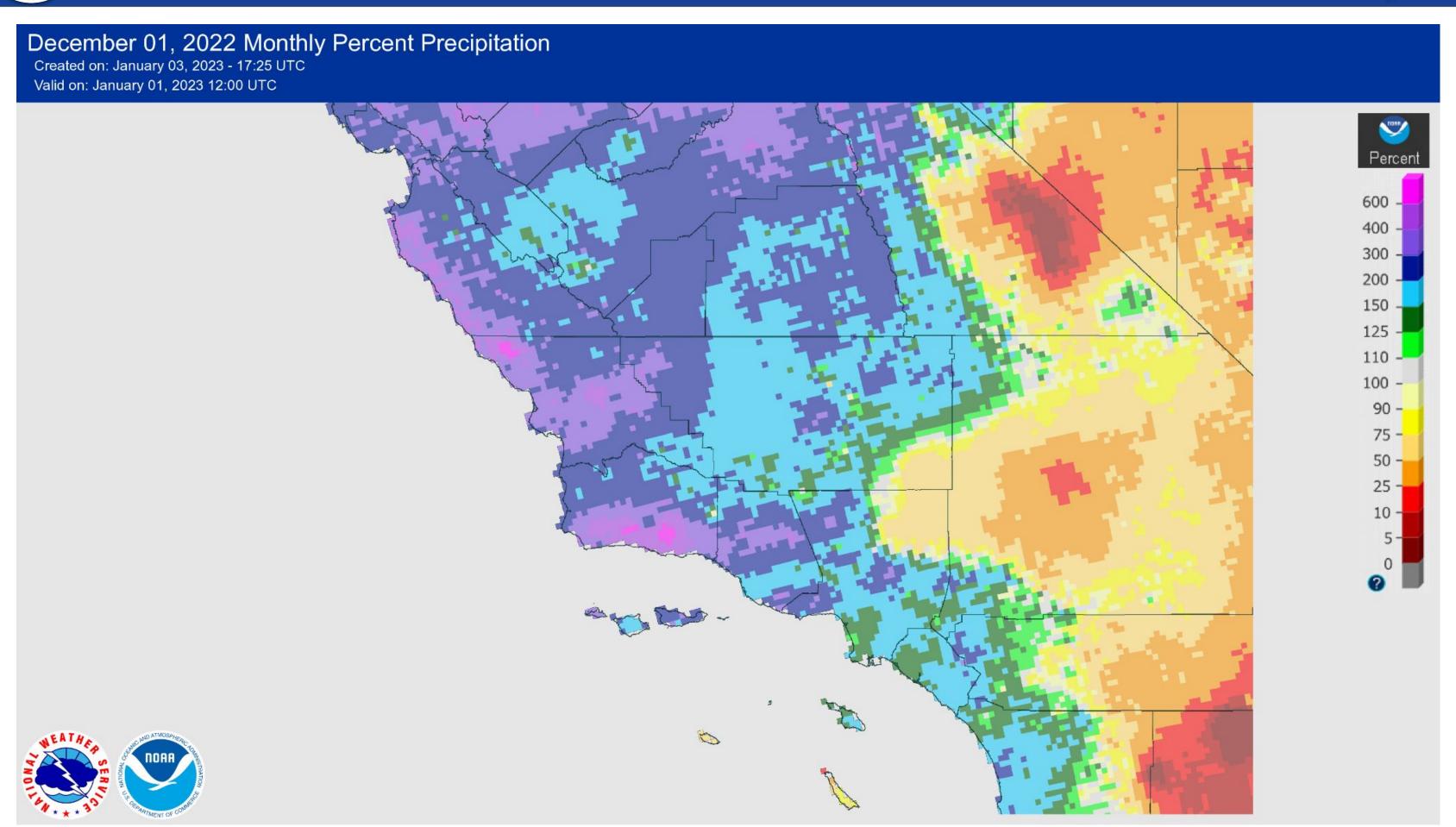
- Moderate to potentially damaging S-SW winds Wed & Wed night
- High surf and beach erosion largest impacts of the winter
- High snow levels (mainly above 7000 ft) lowering to 5000 ft late Thursday



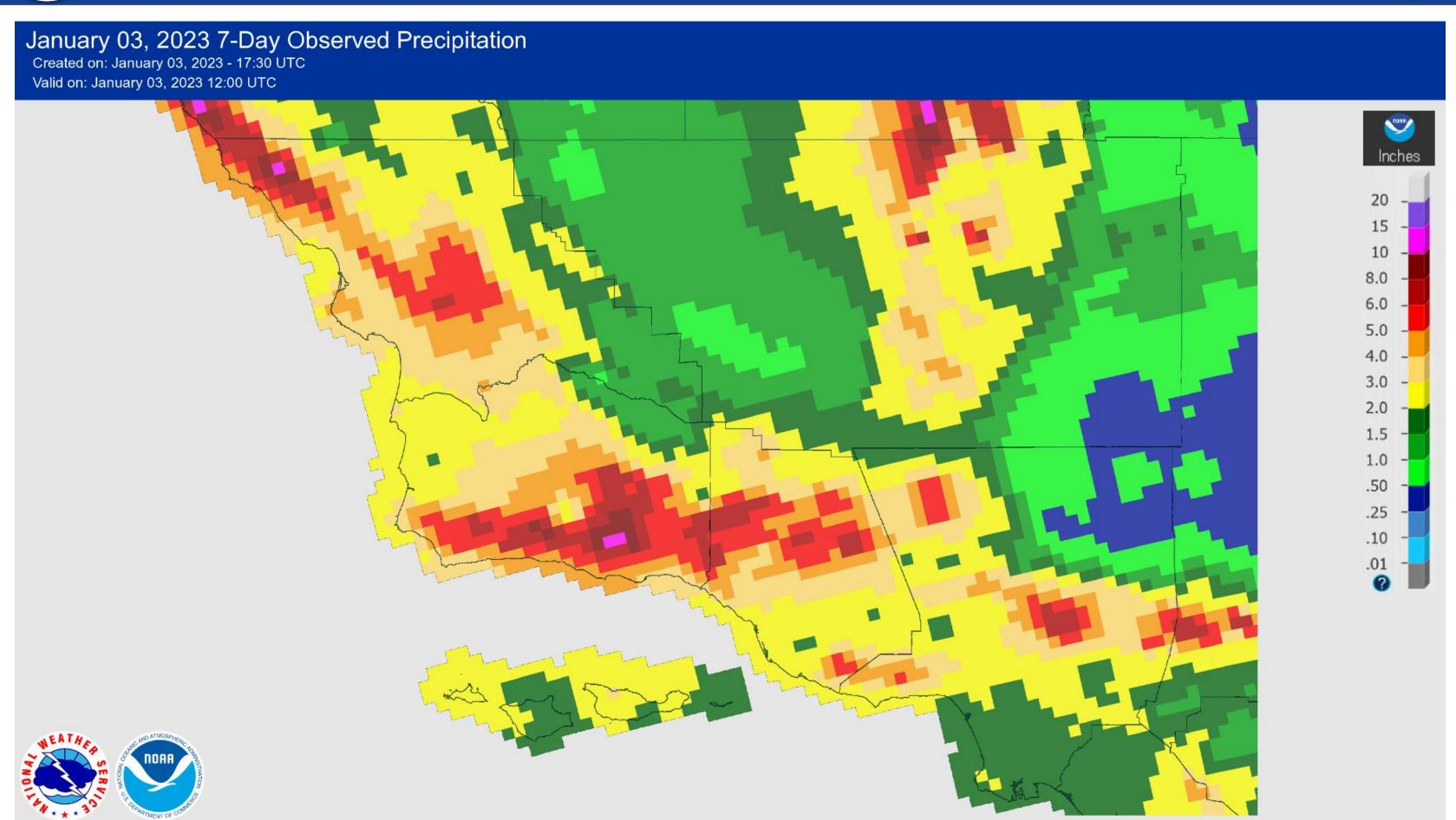
### **Precipitation Results - Water Year Since Oct 1**



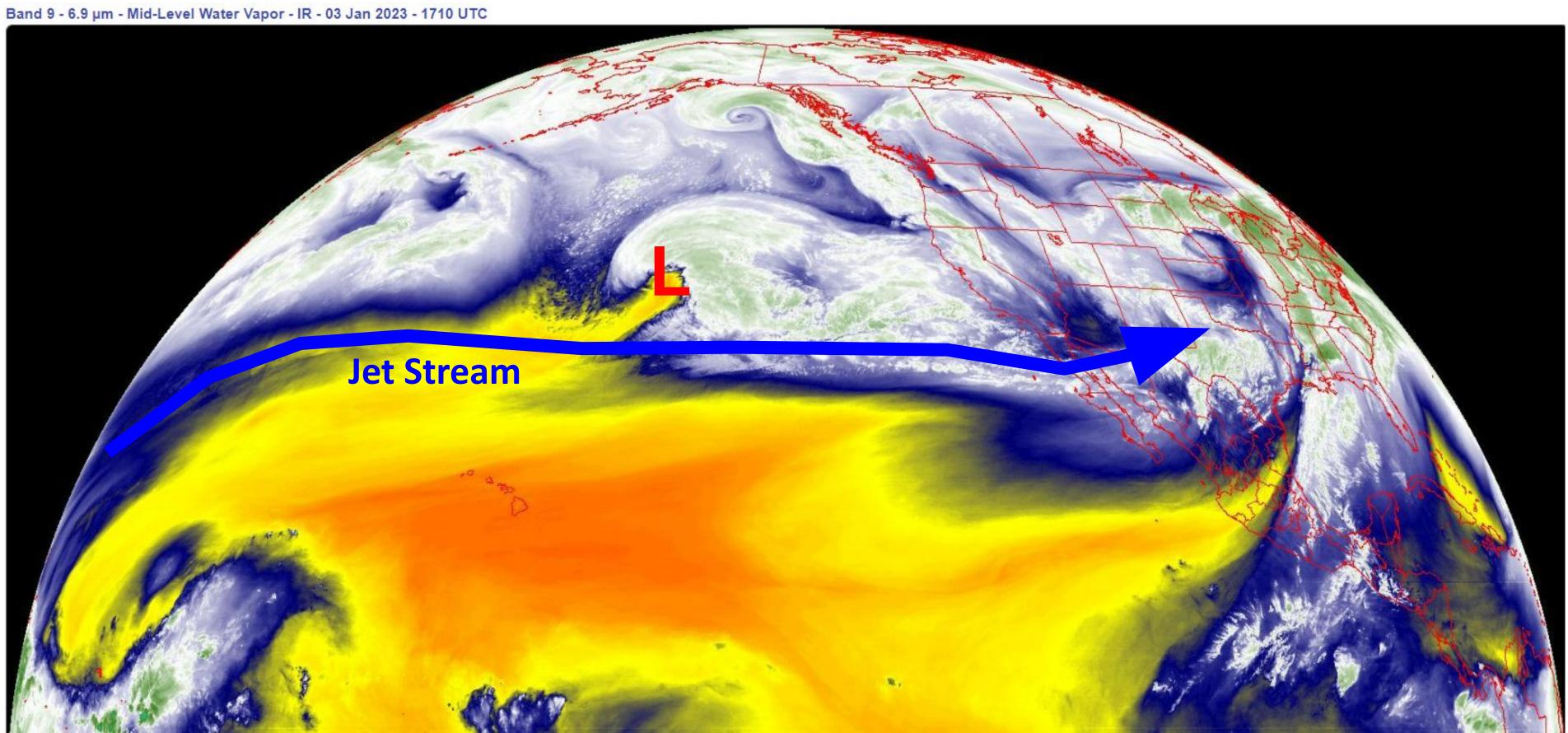






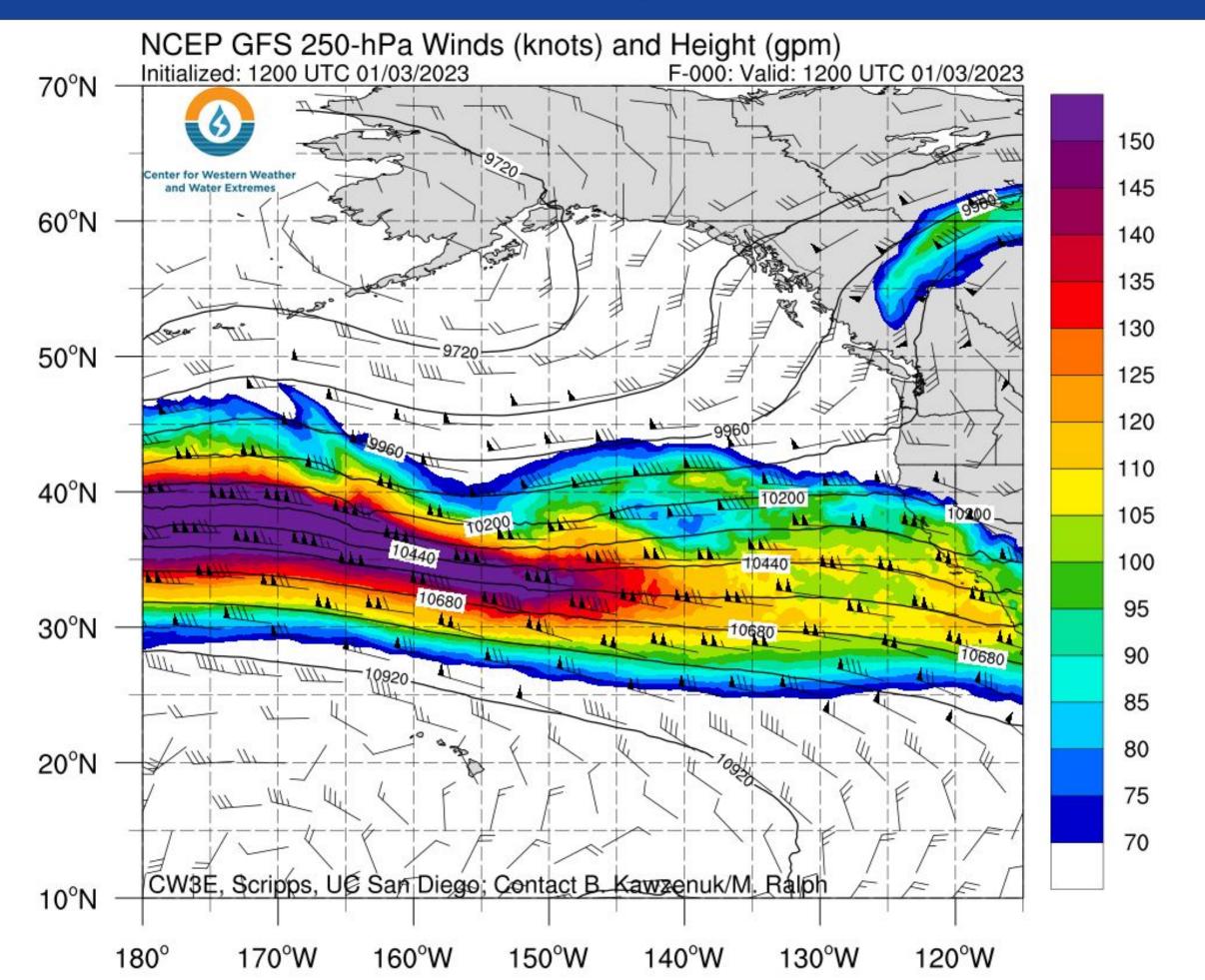




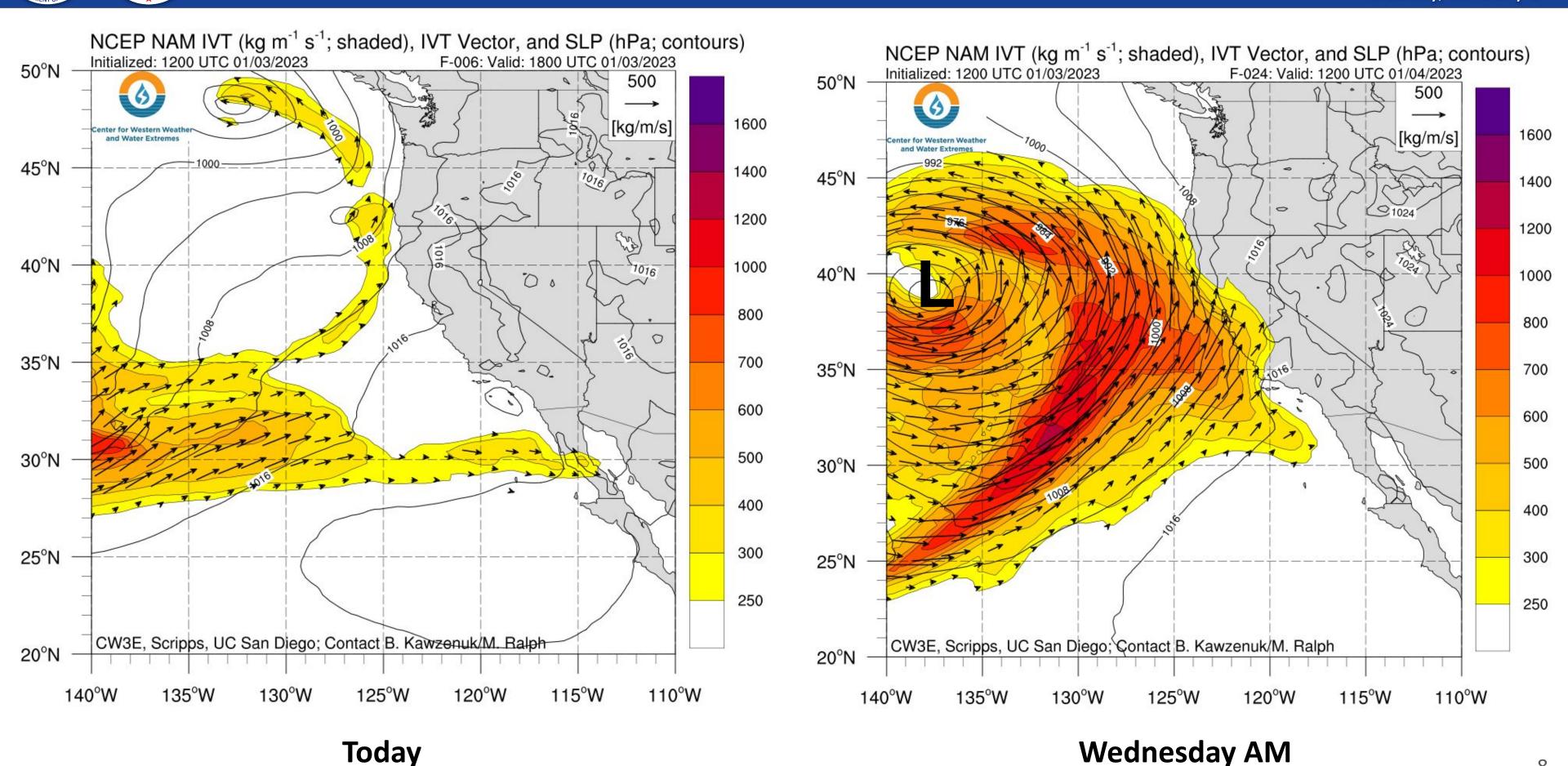




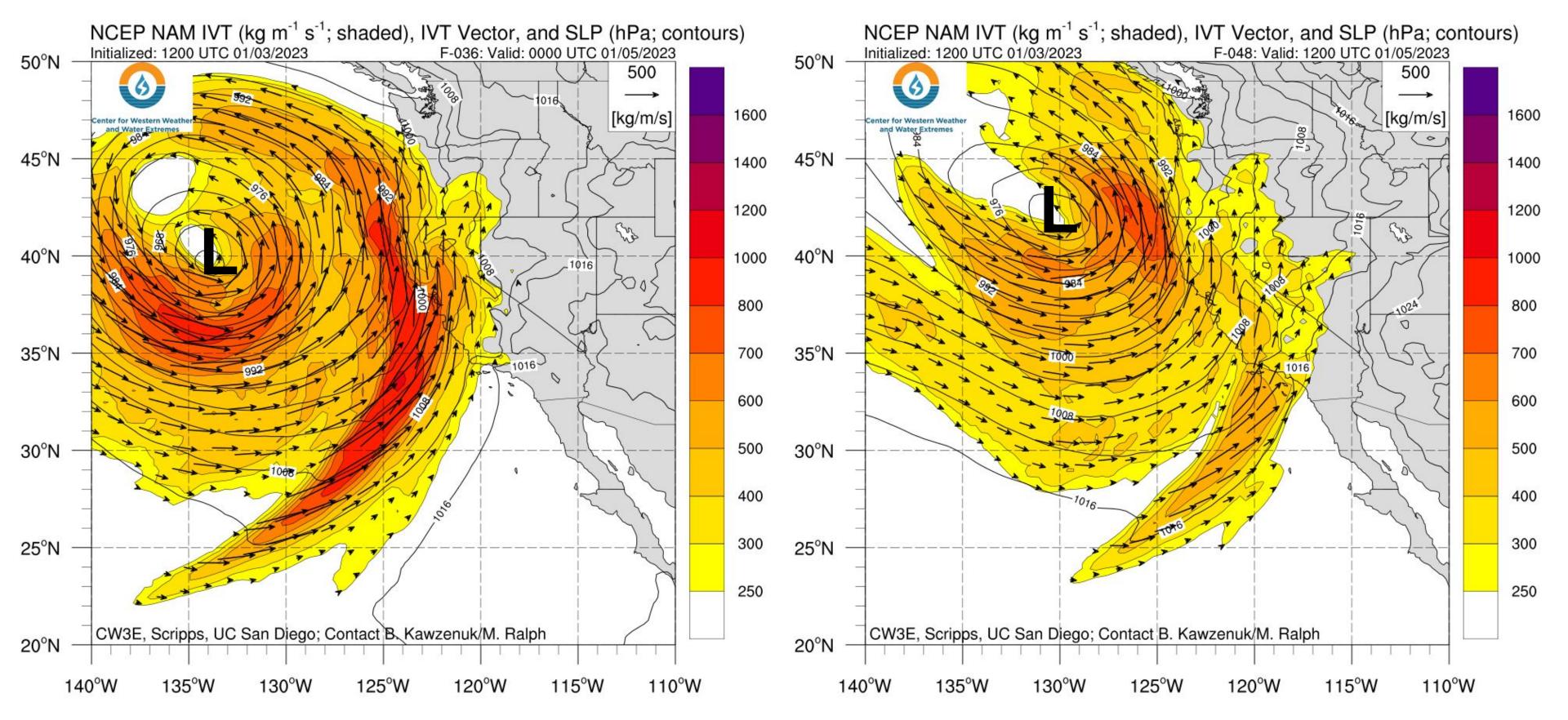
## **Jet Stream Position - Today**











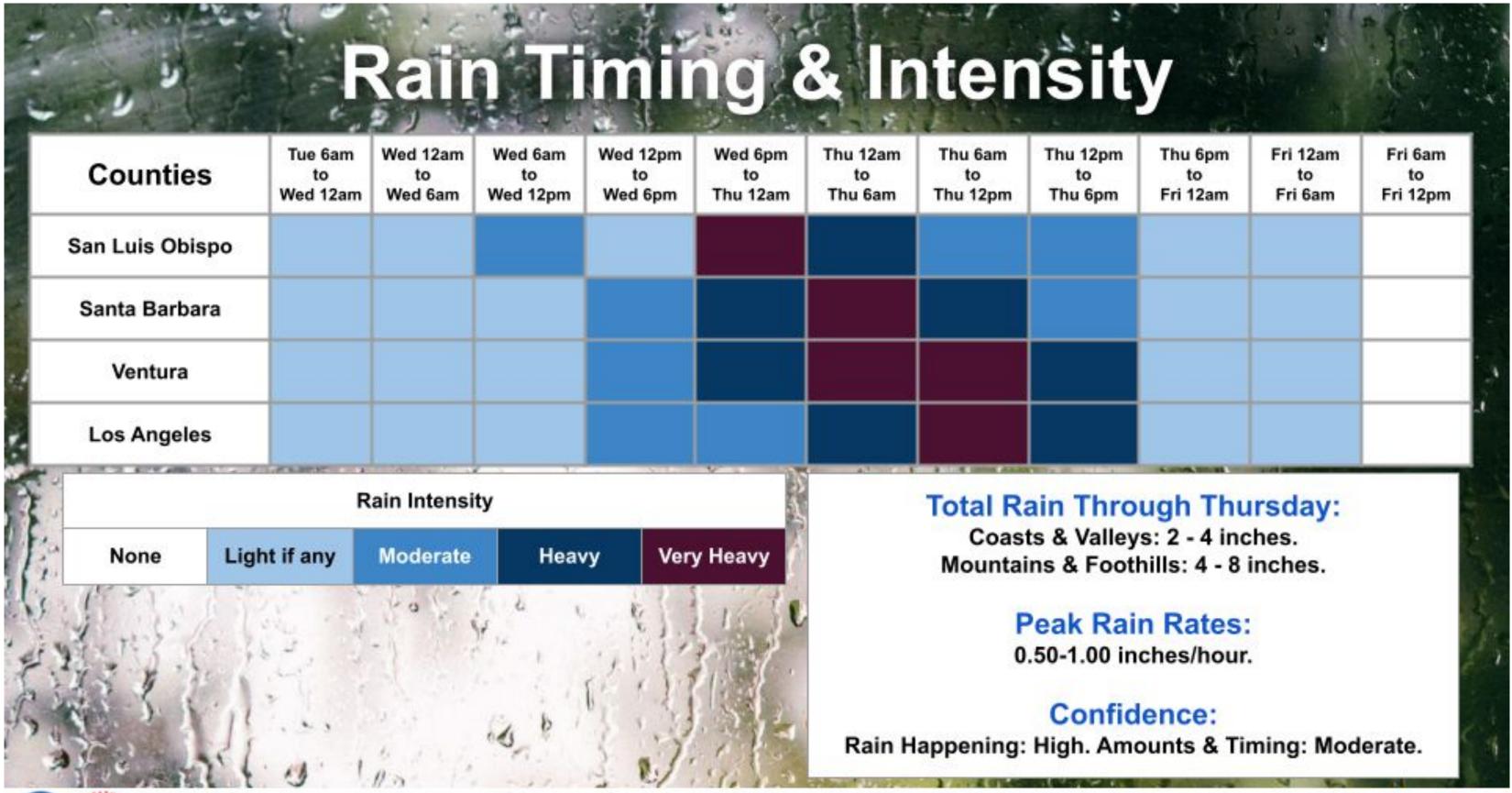
Wednesday PM Thursday AM

### Peak rain rates 0.50-1.0" per hour expected for most areas

- Higher hourly rate potential on south-facing foothills/mountains and during the cold frontal passage early Thursday morning
- Post-frontal chance of thunderstorms Thursday afternoon with brief heavy downpours, but will be fast-moving
- Waterspouts over the ocean possible late Thursday



## Rainfall Amounts, Rates, and Timing

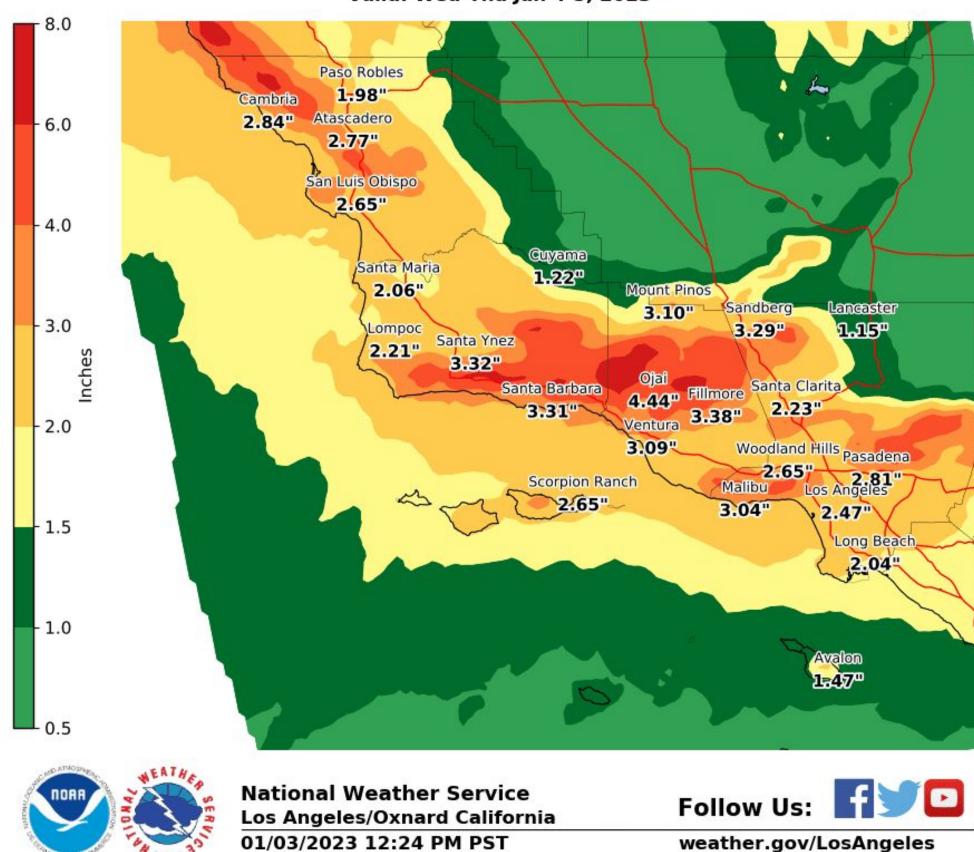




## **Storm Total Wednesday to Thursday**

### Storm Total Rain

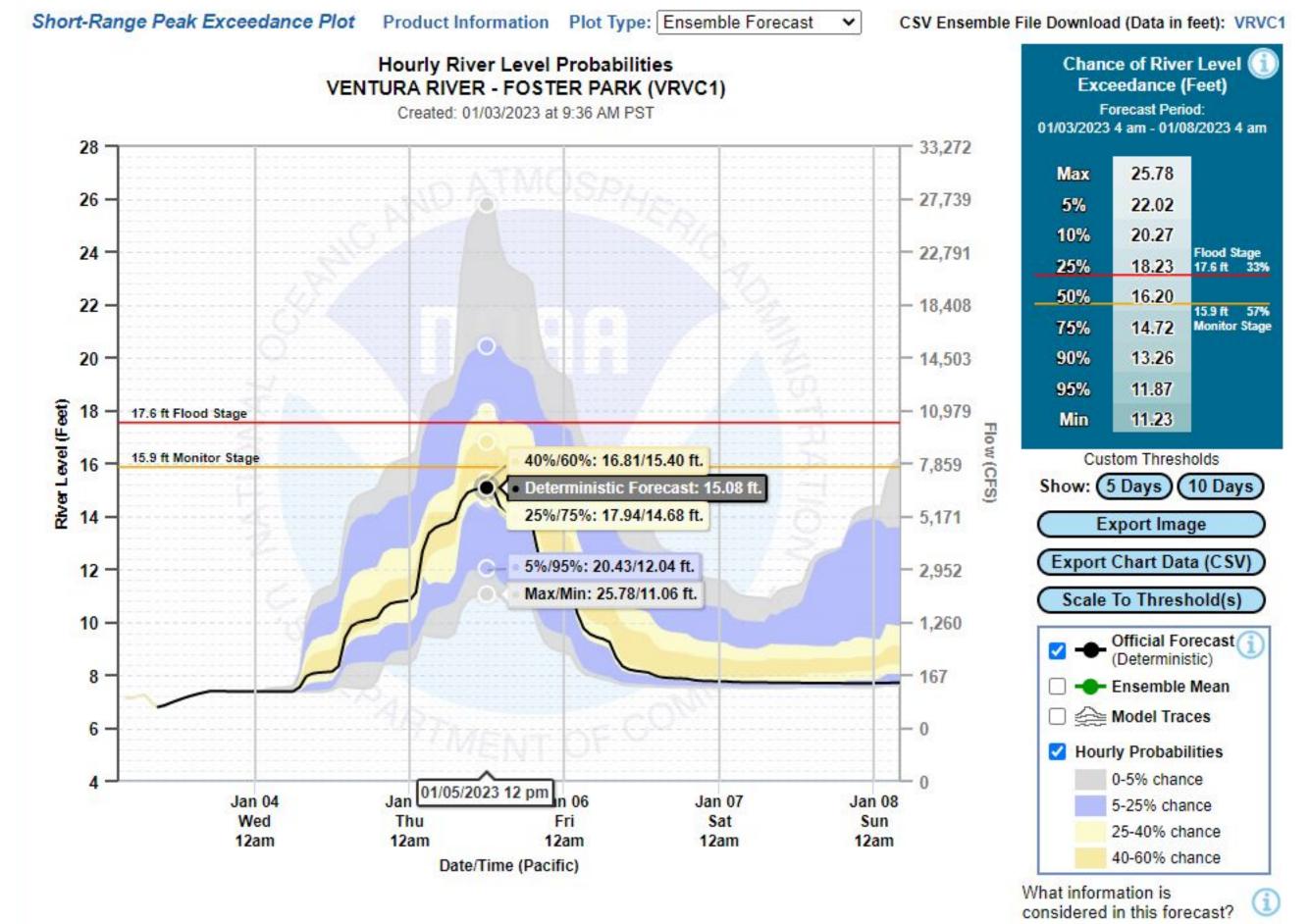
Valid: Wed-Thu Jan 4-5, 2023



### Ventura River Level Forecast

### **Ventura River @ Foster Park**

- Noon on Thursday, 1/5
- 40% chance of exceeding Monitor Stage
- 25% chance of exceeding Flood Stage



- Strongest S-SW wind gusts across San Luis Obispo and Santa Barbara Counties, and the Ventura County mountains
  - Gusts 60-70 mph high wind warning level
- Coastal and valley areas of Ventura and Los Angeles Counties
  - Gusts 30-50 mph wind advisory level



# Ocean and Beaches - Wednesday thru Friday

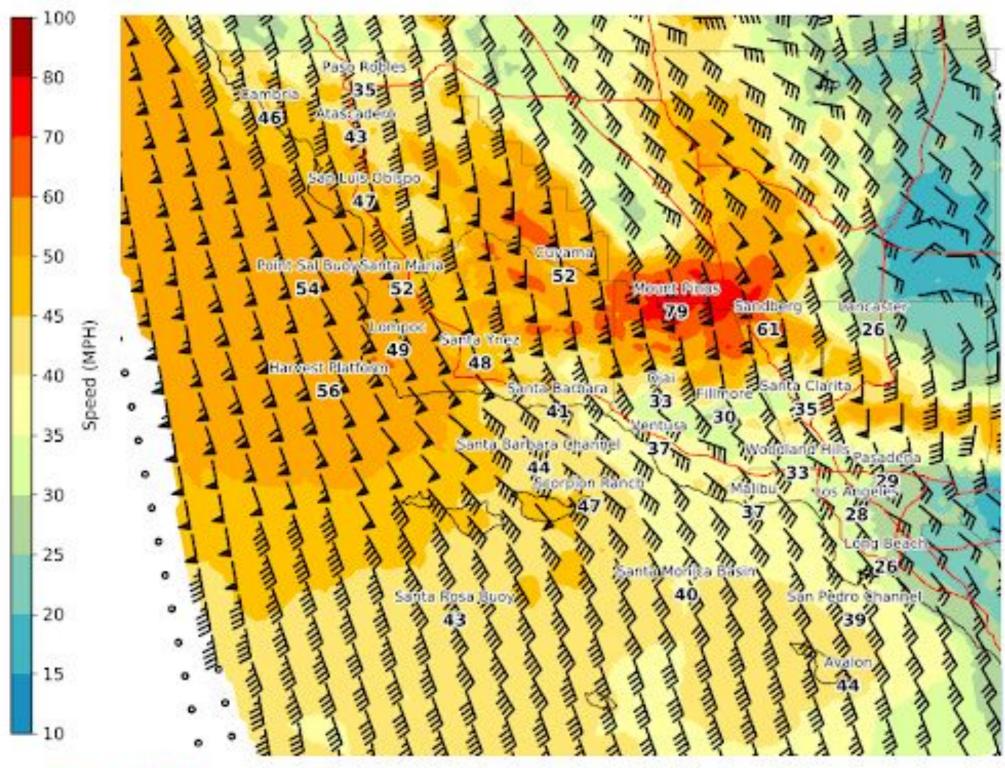
- Widespread Gale force winds over 34 kt over coastal waters Wednesday -Thursday
  - Chance of storm force (gusts > 48 kt) outer waters
- High surf warning, coastal flooding, and beach erosion potential Thursday Friday
  - Ventura County and Central Coast beaches (15-22 feet)
  - High tide near 8am PST Thu
- High surf advisory Wednesday Friday
  - South Santa Barbara County and Los Angeles County beaches (8-13 feet)
- Post-frontal thunderstorms with beach lightning potential and ocean waterspouts late Thursday



### Peak Wind Gusts - Wednesday and Thursday

### **Peak Wind Gusts**

Valid: Wed-Thu Jan 4-5, 2023



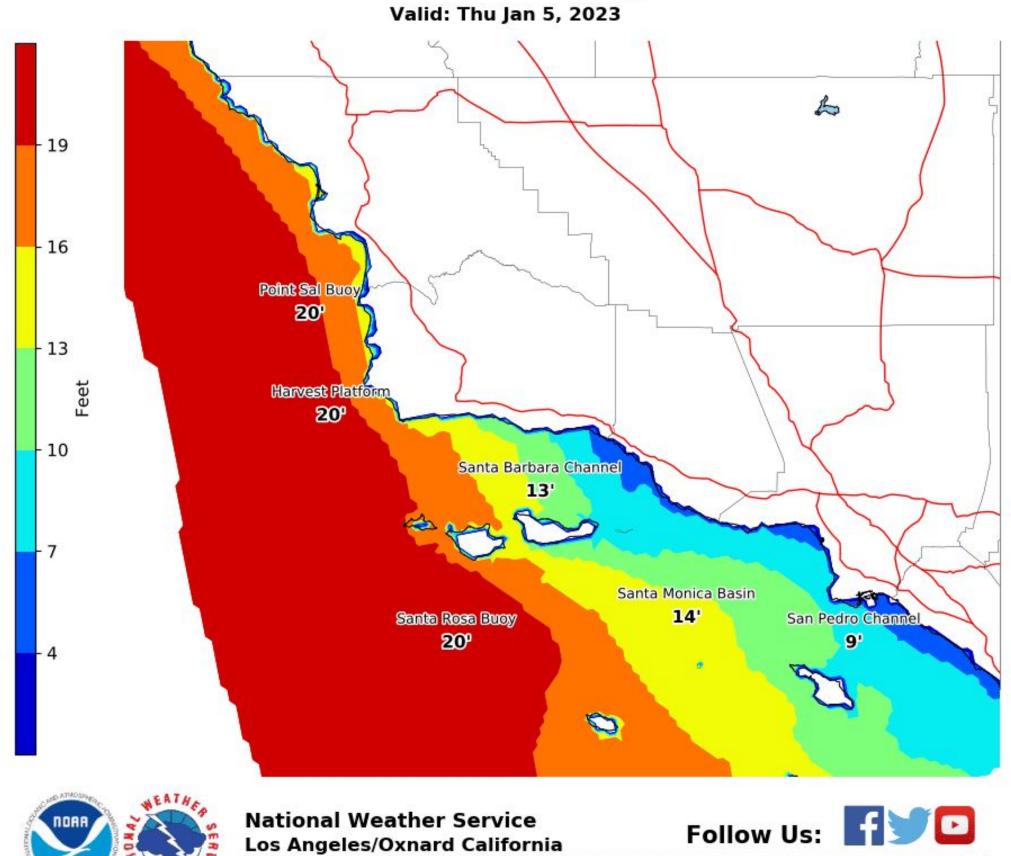
National Weather Service Los Angeles/Oxnard California 01/03/2023 12:16 PM PST





### Peak Wave Heights contributing to High Surf

### **Peak Total Wave Height**

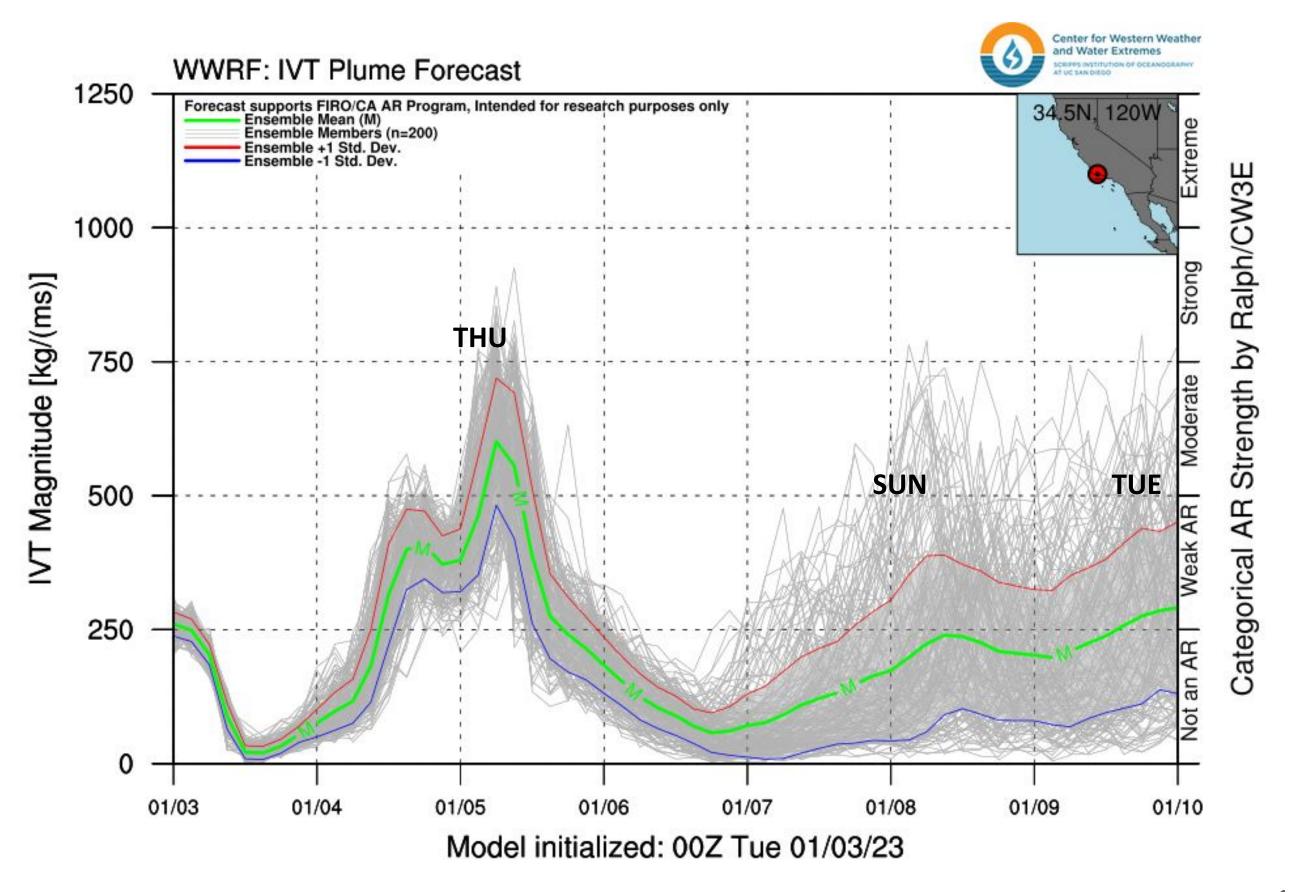


weather.gov/LosAngeles

01/03/2023 12:25 PM PST

Additional rain events with atmospheric river connections possible this weekend and again next week (Sunday and possibly Tue-Wed).

Not as strong as this week's event.



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