



## Latest Update on Active Weather Period Bringing Precipitation to US West Coast

Updated: 30 January 2024

A quick look at the upcoming atmospheric river forecast to make landfall across the USWC and progress down the CA coast Wed 31 Jan through Thu 1 Feb & a follow-on storm in southern CA. between 4-7 Feb.

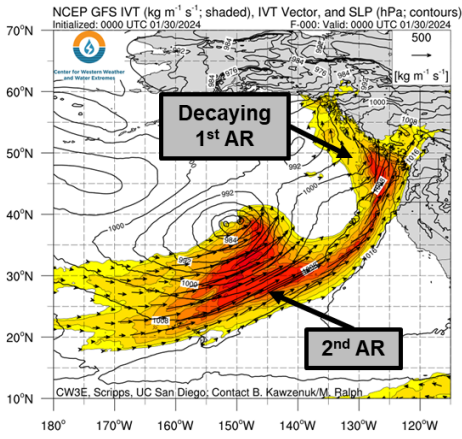
### Forecast Highlights:

- An atmospheric river (AR) moved onshore over the Pacific Northwest and is forecast to dissipate today.
- The **second** AR is forecast to make landfall around 4 PM PT 30 Jan and initially bring elevated IVT and AR conditions to much of the Pacific Northwest and Northern California.
- CW3E's AR Scale tools for the GEFS and EPS ensembles are indicating AR3/4 conditions (based on the Ralph et al. 2019 AR Scale) for much of coastal WA and OR, with two coastal OR locations forecast at an AR5 where the core of the AR is forecast to make landfall?
- The GEFS ensemble is also indicating AR2/3 conditions (based on the Ralph et al. 2019 AR Scale) for much of coastal California, while the EPS ensemble is indicating slightly lower AR1/2 conditions over the same region.
- Precipitation totals of 3 to 5 inches are forecast over Northern CA and parts of the Central and Southern CA coasts with isolated totals above 6 inches.
- Heavy snowfall is expected in the Sierra Nevada with totals of one to two feet likely. Higher elevations could see more than three feet of snowfall accumulation.
- The NWS WPC has expanded their area of issuance of Excessive Rainfall Outlooks for California, with their slight (15%) risk area across much of coastal Northern and Central California between the OR/CA border and San Luis Obispo for a period between 4 AM 31 Jan and 4 AM 01 Feb and along the coast of Southern California between Santa Barbara and San Diego for a period between 4 AM 01 Feb and 4 AM 02 Feb.
- The CNRFC has 12 stations currently forecast to enter the monitor stage and 4 stations forecast to enter flood stage as a result of precipitation from the **second** AR.
- Wind Advisories have been issued across much of the Northern CA coast, with some regions having been issued a High Wind Warning. Sustained winds of 20 mph are expected with possible gusts to 40 mph per NWS Sacramento, Eureka and San Francisco.
- A **third** AR is currently forecast to affect California between 04 Feb and 07 Feb, with the GEFS ensemble forecasting an AR further north and sooner as opposed to the EPS ensemble.
- There is still forecast uncertainty as to the area of impacts over southern California with this third AR, with the 00Z 30 Jan GEFS is forecasting 60-70% probability of  $IVT > 250 \text{ kg m}^{-1} \text{ s}^{-1}$  between  $33^{\circ}$ - $38^{\circ}$  N while the EPS ensemble highlighting a 50-60% probabilities for a latitude range between  $32^{\circ}$ - $35^{\circ}$  N.

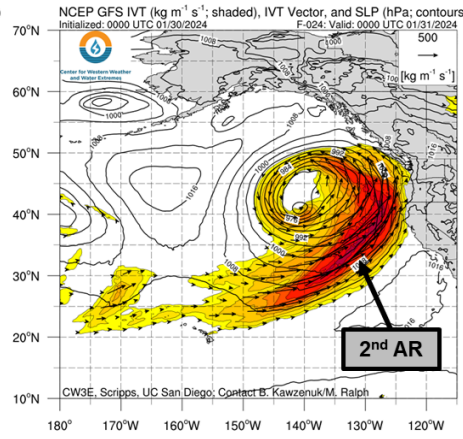
**Stay alert to official NWS forecasts, watches, and warnings at [weather.gov](https://www.weather.gov) and follow guidance from local emergency management officials**

**Stay tuned to the CW3E webpage for a full AR Update**

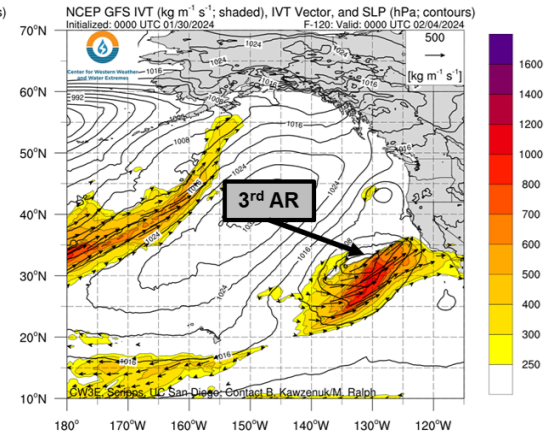
**Valid: 4PM PT 29 Jan 2024**



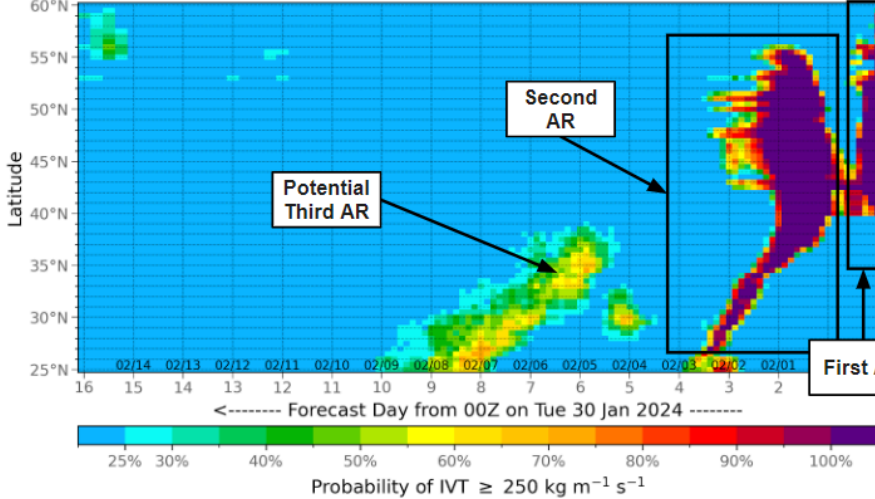
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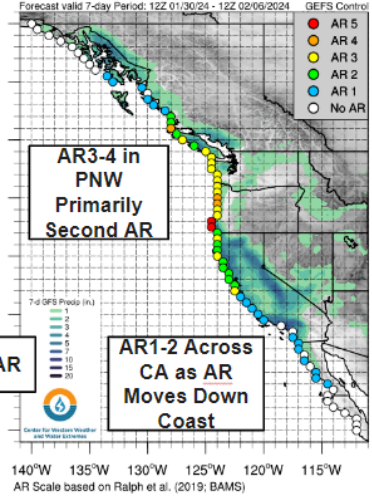
**Valid: 4PM PT 03 Feb 2024**



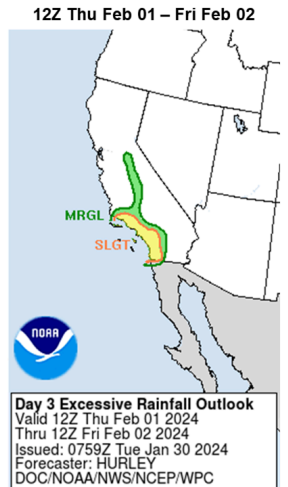
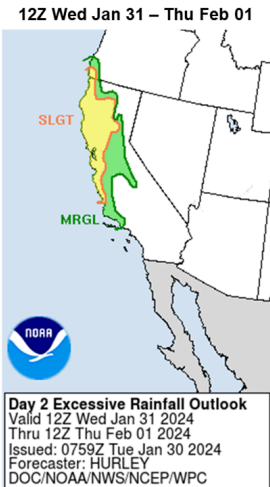
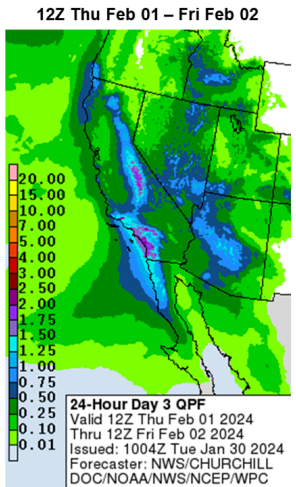
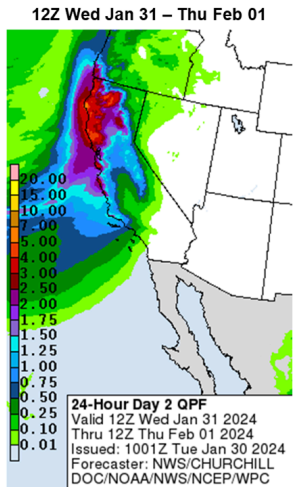
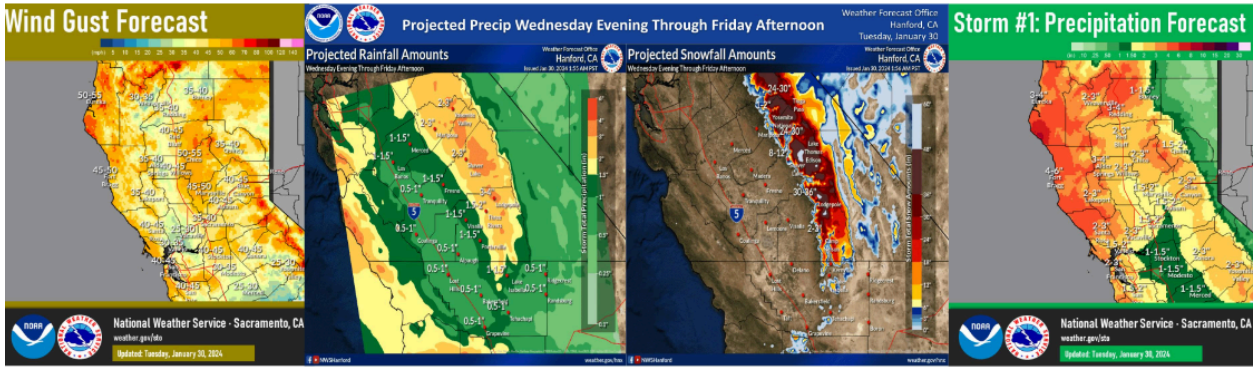
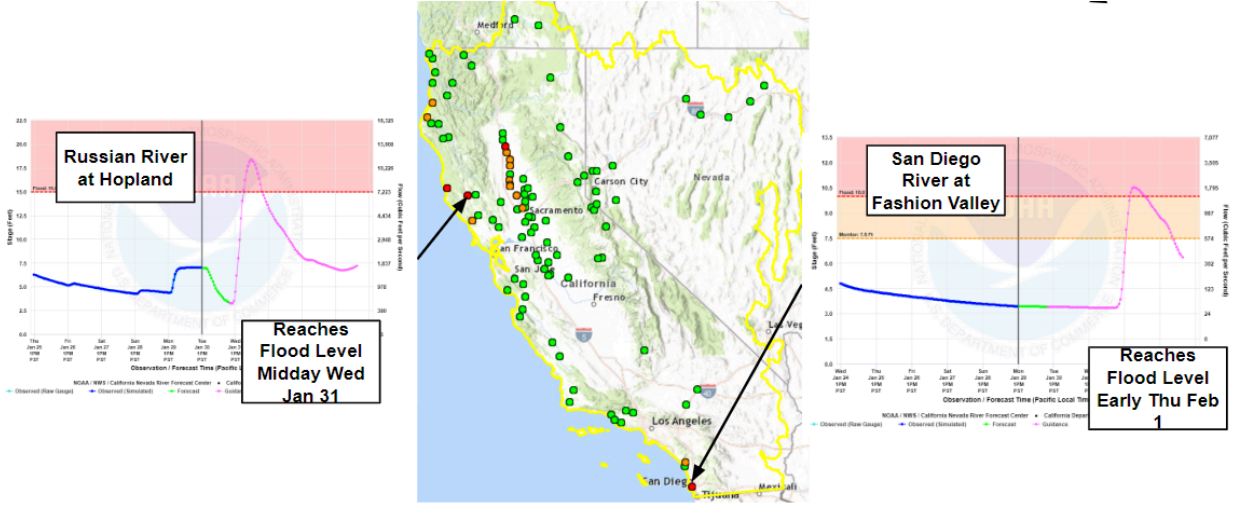
**CW3E AR Landfall Tool | GEFS**



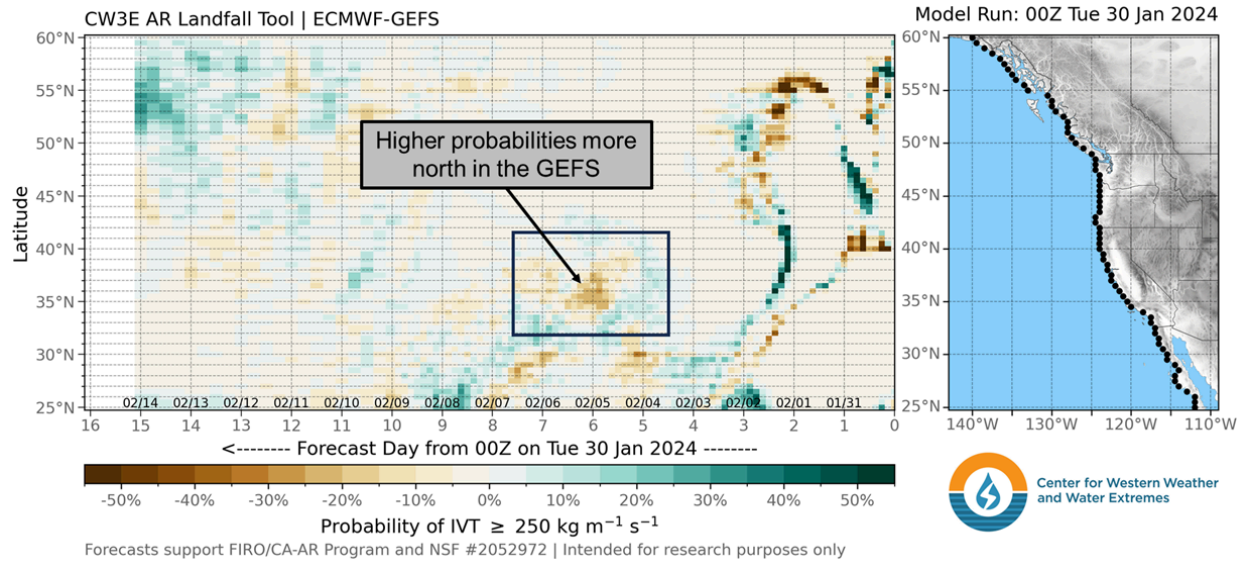
**Maximum Forecast AR Scale**



**Stay tuned to the CW3E webpage for a full AR Update**



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#### Additional Considerations:

- Visit <https://nwrfc.noaa.gov/> and <https://cnrfc.noaa.gov/> for specific river and stream forecasts and <https://www.weather.gov/> for point specific watches, warnings, and forecasts.

In-depth AR forecasts products can be found here:

<http://cw3e.ucsd.edu/iwv-and-ivt-forecasts/>

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