

Latest Update on AR Activity Along US West Coast

Updated: 1 February 2024

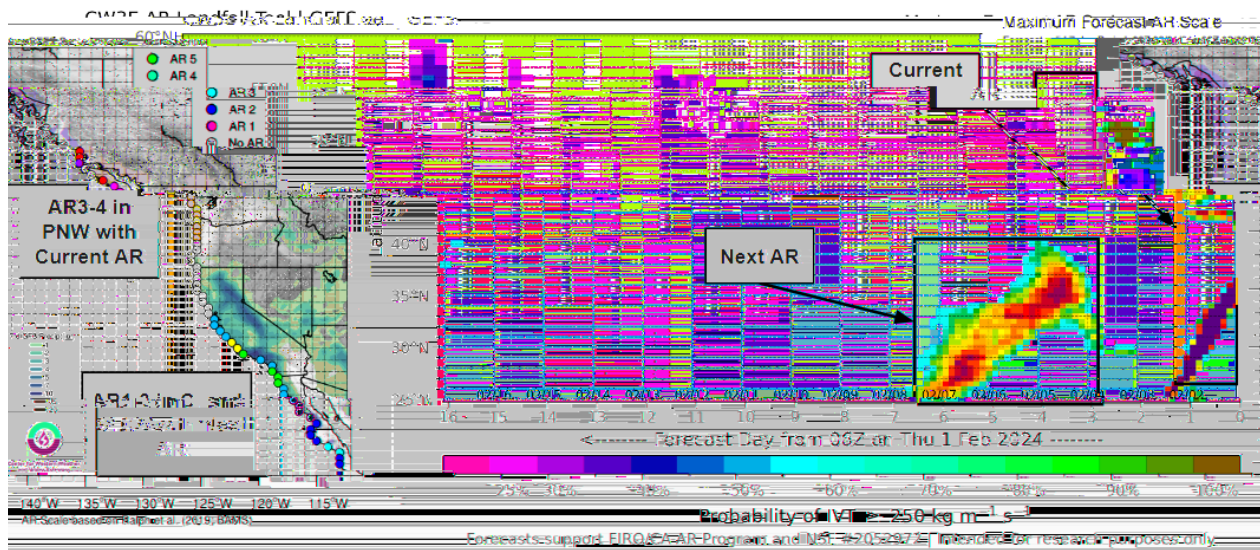
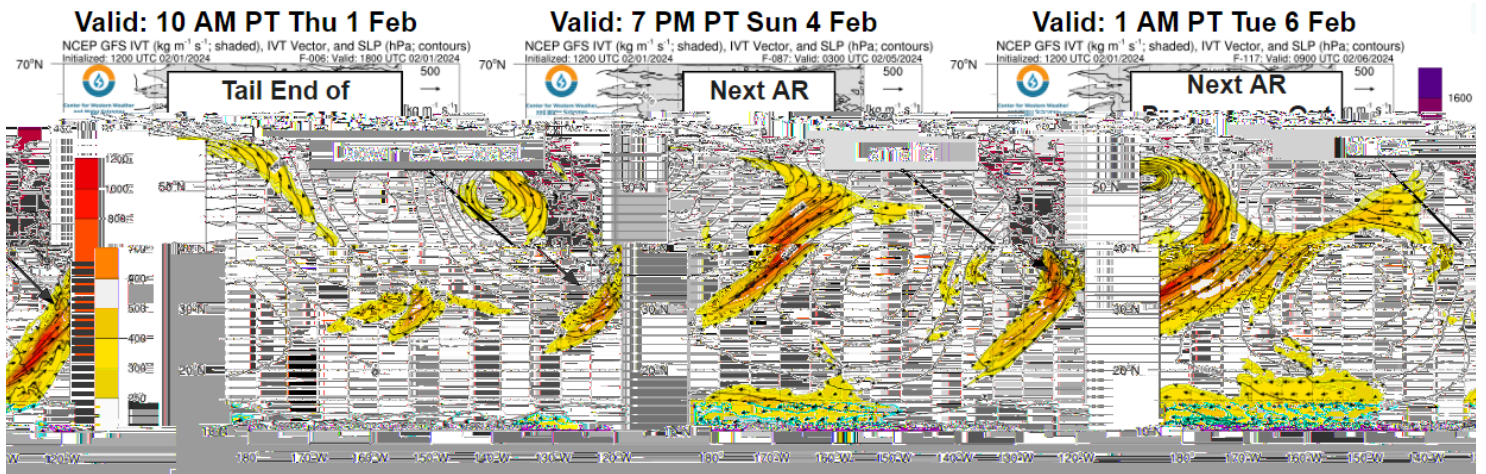
A quick look at the AR moving down the California coast and a second AR forecast to bring heavy precipitation to Central and Southern California early next week.

Forecast Highlights:

- The atmospheric river that made landfall along the US West Coast yesterday will continue moving down the California coast today.
- CW3E's AR Scale tools for the GEFS ensemble show that this AR produced AR1-3 conditions (based on the Ralph et al. 2019 AR Scale) along the Northern and Central California coasts.
- Precipitation totals of 1 to 3 inches are forecast over Southern CA and the Sierra Nevada for Thu 1 Feb.
- Heavy snowfall is expected in the Sierra Nevada with total accumulations by the end of the event expected to be around 1 to 2 feet, with 3 feet possible at the highest elevations.
- The NWS WPC has continued issuance of a slight risk (15%) Excessive Rainfall Outlooks in Southern California for a period between 4 AM 01 Feb and 4 AM 02 Feb.
- As of Wednesday morning, the NWS California Nevada River Forecast Center (CNRFC) has currently forecast 1 station to rise above flood stage and 9 to rise or remain above monitor stage in association with the heavy precipitation from the current AR.
- The next AR is forecast to develop north of Hawaii in the coming days, moving onshore early in the day on Sun 04 Feb with AR1-3 conditions forecast along the coast of Central and Southern California.
- The intensity of the next AR during landfall has increased over the past few model runs, with a stronger and more coherent core of IVT positioned along the coast of California between 12Z 04 Feb and 12Z 06 Feb in both the deterministic GFS and ECMWF.
- Precipitation totals greater than 3 inches are forecast along the Central and Southern CA coasts and in the Sierra Nevada with localized totals along the coast potentially exceeding 6 inches, during the duration of the next AR.
- Potentially heavy snowfall in Sierra Nevada is forecast with the next AR.
- WPC has issued a slight risk (15%) ERO for days 4 and 5 along the Central and Southern CA coasts for the period between 4AM Sun 4 Feb and 4 AM Tue 6 Feb in association with the second AR.

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

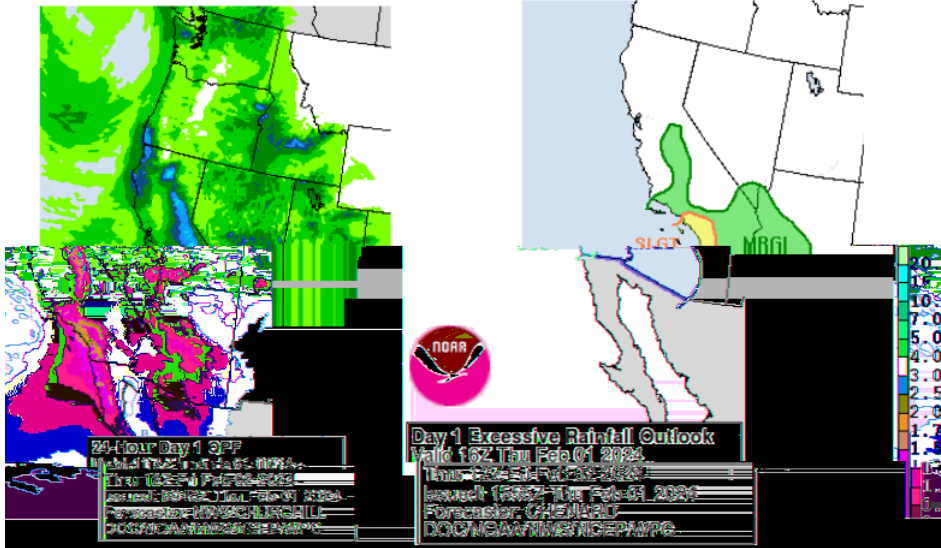
Stay tuned to the CW3E webpage for a full AR Update



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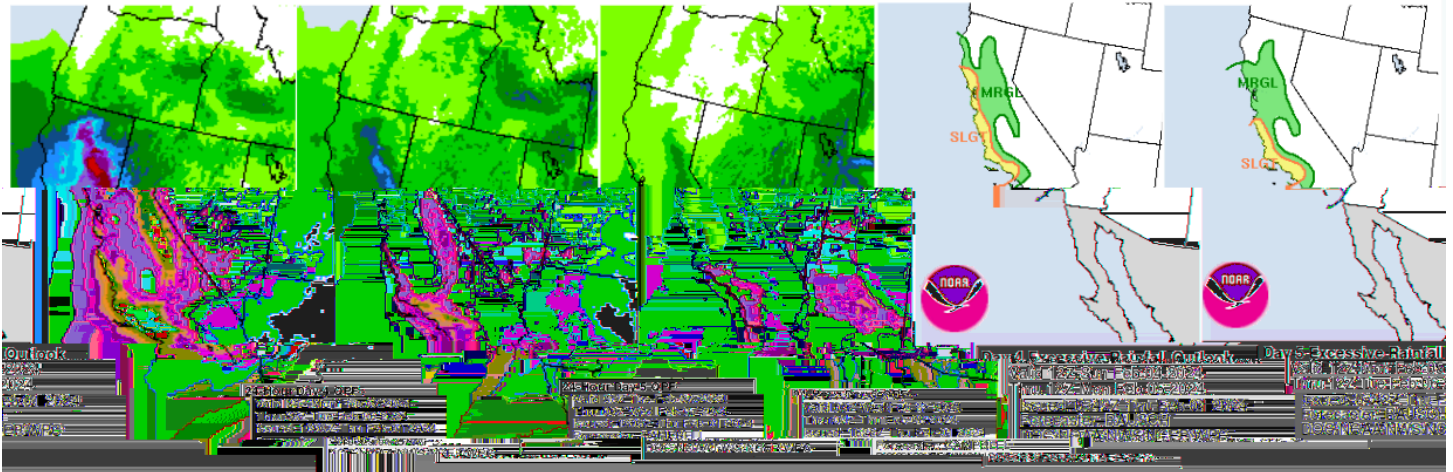
Current AR QPF: 00Z Feb 2-3

Current AR ERO: 16Z Feb 1 - 12Z Feb

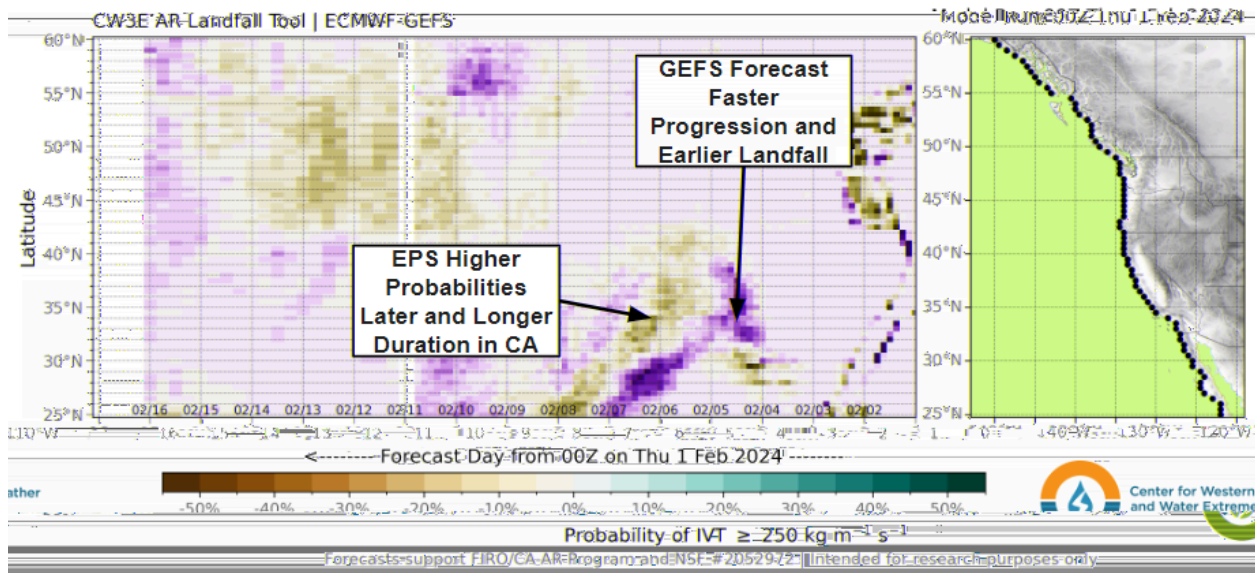
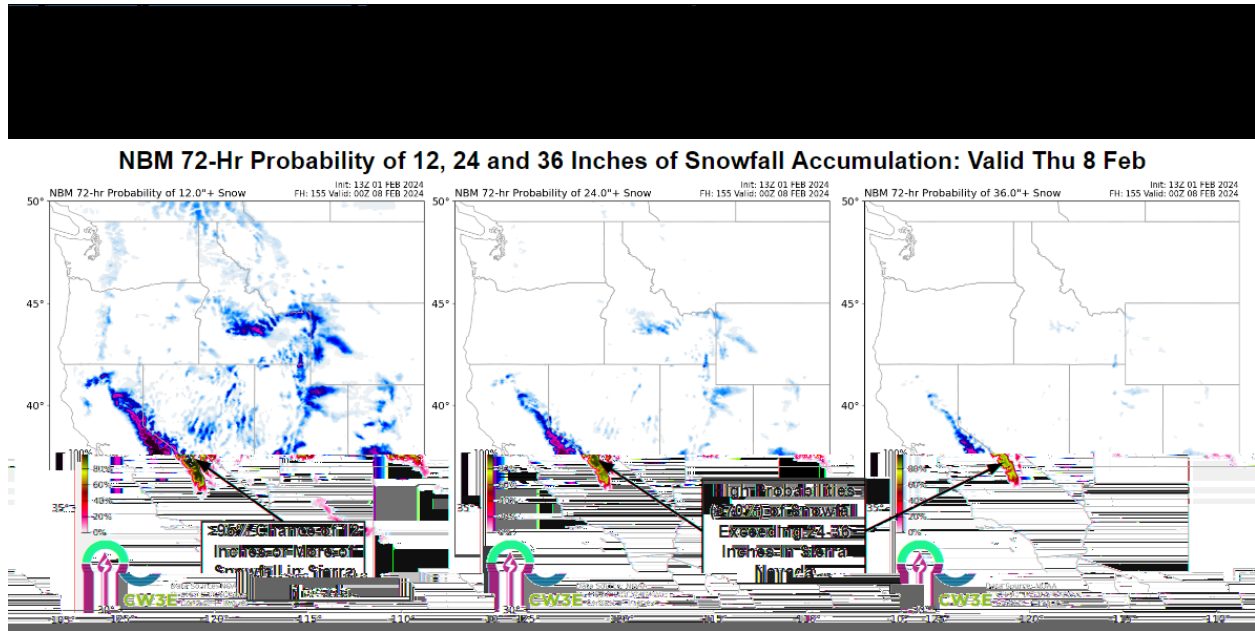


Next AR QPF: 00Z Feb 5-8

Next AR ERO: 12Z Feb 4-6



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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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