

Quick Look at the Potential AR Landfall Over the Pacific Northwest and California Next Week

Updated: 15 November 2024

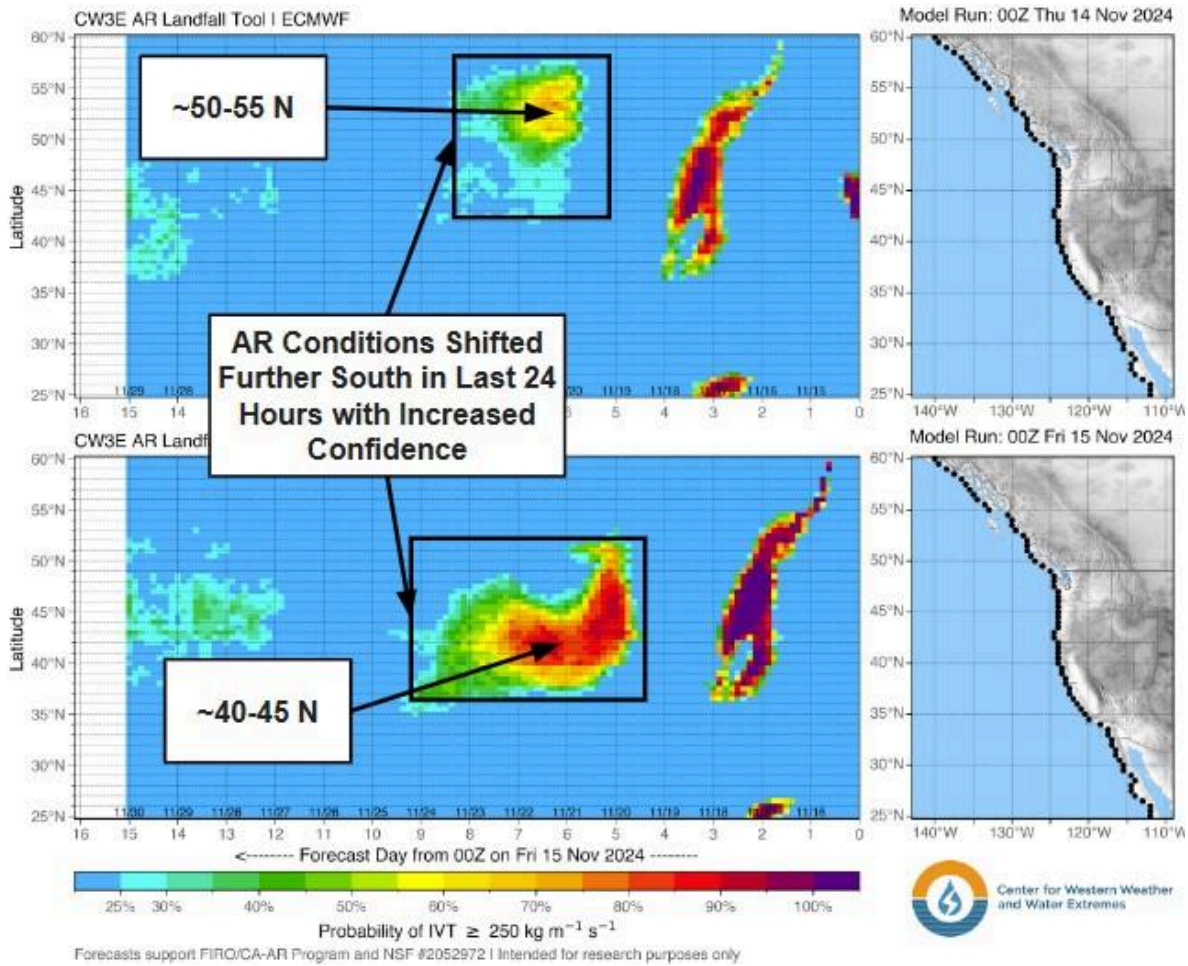
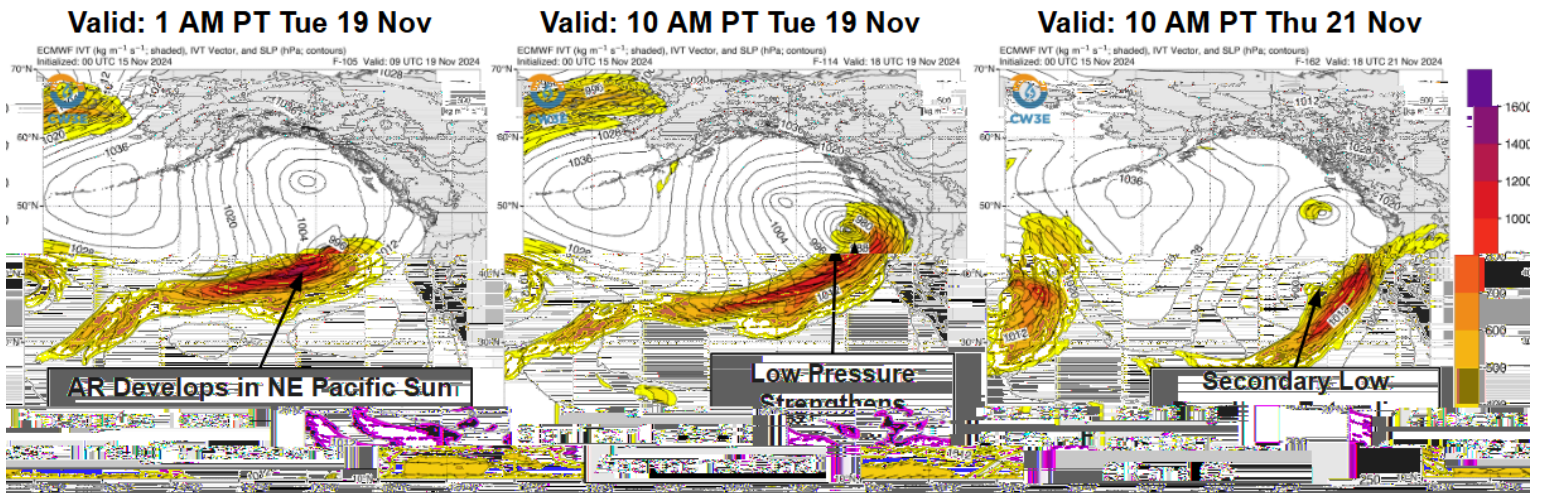
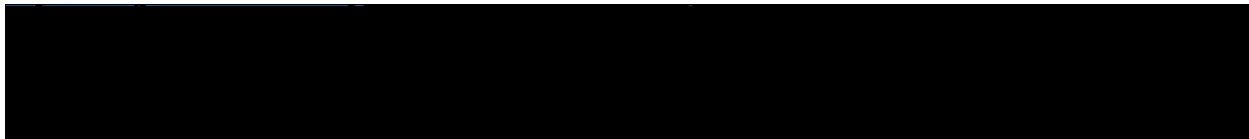
The most recent model guidance is indicating the possibility of a major atmospheric river making landfall over the Pacific Northwest and Northern California early next week.

Forecast Highlights:

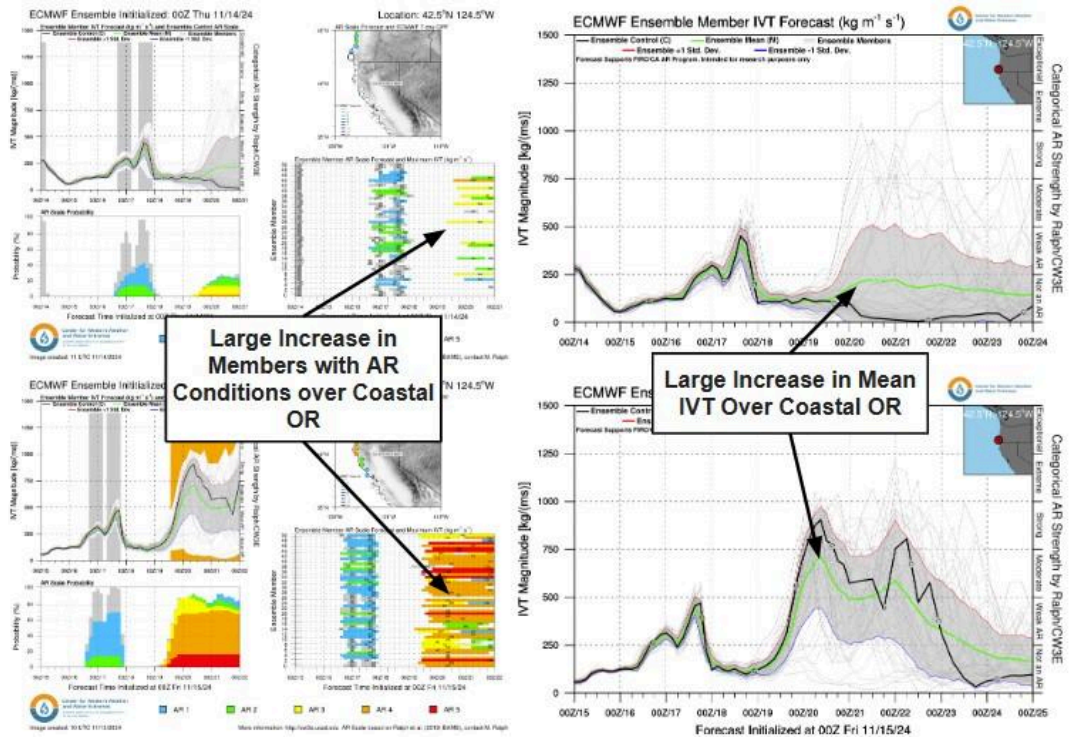
- CW3E's atmospheric river (AR) landfall tool is showing a high likelihood (>80% probability) of landfalling AR activity over the Pacific Northwest and Northern California beginning late Tue 19 Nov and continuing throughout at least Fri 22 Nov. This is a significant shift in the forecast from a day prior.
- Yesterday's (00Z 14 Nov) ECMWF forecast AR activity was over southeastern Alaska and British Columbia due to ridging over the US West Coast.
- The most recent model run is showing a substantial southeastward shift in the track of the AR due to weaker ridging and the center of ridging moving further inland.
- The ECMWF EPS control member is forecasting AR3-4 conditions for central Oregon extending south to Northern California for the AR forecast next week.
- Although there is large uncertainty in the timing and duration of the AR, about 70% of EPS members are forecasting an AR4 or an AR5 in coastal southern Oregon.
- The Weather Prediction Center (WPC) is forecasting at least five inches of precipitation across the Cascades and coastal Washington, Oregon and Northern California over the next 7 days.
- The heaviest precipitation (> 10 inches) is forecast over the Olympic Peninsula and portions of the Cascades and Coast Ranges.
- The ECMWF highest 7-day precipitation totals are over the California-Oregon border whereas the GFS highest 7-day totals are further north along the Oregon coast.
- WPC has issued a marginal risk (level 1 of 4, at least 5% probability) for rainfall exceeding flash flooding guidance over coastal Washington and Oregon for the 24-hour period ending 4 AM PT Wed 20 Nov.

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

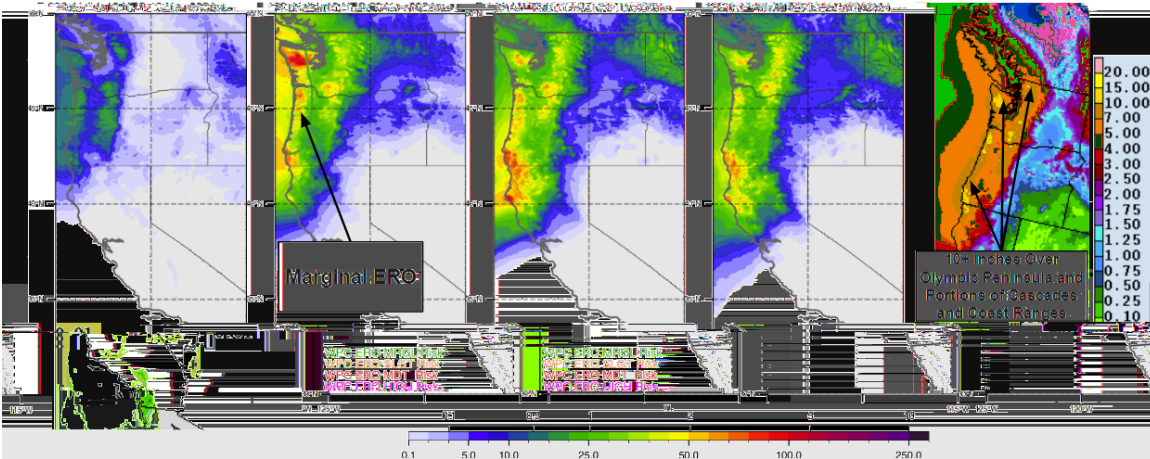


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WPC Days 4-7 QPF: Periods Ending 10 AM PT 19-22 Nov

WPC 7-Day QPF: Period Ending 4 PM PT Fri 22 Nov



Additional Considerations:

- Visit <https://www.weather.gov/nwrfc/> and <https://www.weather.gov/cnrfc/> 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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