

Quick Look at the Low-Pressure System Forecast to Impact US West Coast *Updated: 30 October 2024*

A surface low-pressure system is forecast to bring precipitation to the Pacific Northwest and California today into the weekend.

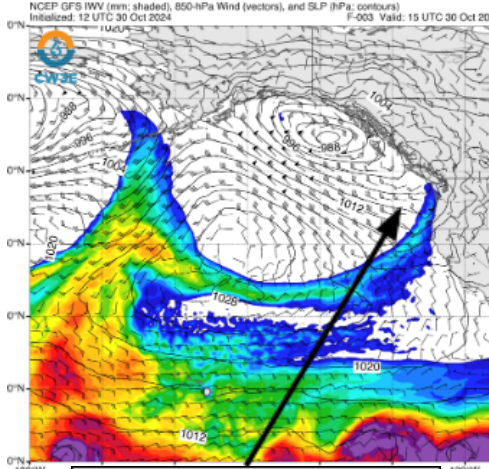
Forecast Highlights:

- A surface cyclone in the Gulf of Alaska is forecast to propagate down the Alaska and British Columbia coasts today and tomorrow (30-31 Oct).
- A cold front ahead of the cyclone will bring the first wave of precipitation to the Pacific Northwest and Northern California today, with precipitation lingering into tomorrow as the cyclone stalls offshore.
- As the cyclone reaches the Washington Coast on Fri 1 Nov, a shortwave trough is forecast to develop behind the system and deepens along the US West Coast, bringing an additional period of precipitation to the region.
- The shortwave trough behind the system has the potential to interact with the tropical moisture export from the Central Pacific, which may lead to a period of AR conditions over Northern California late Fri 1 Nov into Sat 2 Nov.
- The Weather Prediction Center (WPC) is forecasting at least one inch of precipitation across the Cascades, Northern Sierra Nevada, and coastal Washington, Oregon and California during the next 5 days.
- The heaviest precipitation (> 3 inches) is forecast in the Coast Ranges in Central Oregon and near the Oregon/California border, as well as over the Southern Cascades.
- Significant hydrologic impacts are not expected by either the California-Nevada River Forecast Center (CNRFC) or the Northwest River Forecast Center (NWRFC).
- Due to this being a colder system, snowfall is expected in both the Cascades and Sierra Nevada.
- The National Weather Service has issued Winter Storm Warnings for the Southern Cascades and Winter Weather Advisories for parts of the Cascades in southern Washington and Northern and Central Sierra Nevada.
- NWS Medford is forecasting 1 to 2 feet of snowfall in the Cascades for regions near Crater Lake National Park and Willamette Pass through Fri 1 Nov.
- NWS Sacramento is forecasting accumulations of 6-12" for areas above 5000 feet in the Northern and Central Sierra Nevada through Sun 2 Nov.

Stay tuned to the CW3E webpage for a full AR Update

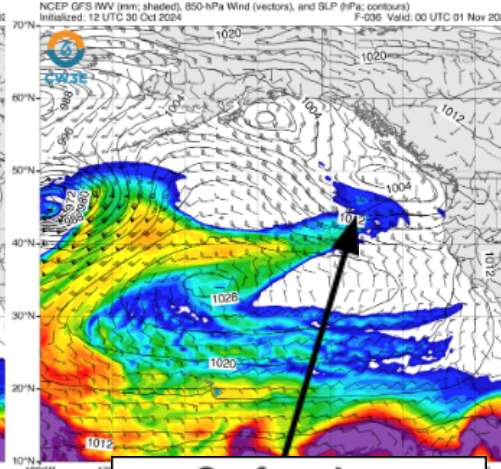
Stay alert to official NWS forecasts, watches, and warnings at weather.gov and follow guidance from local emergency management officials

Valid: 8 AM PT Wed 30 Oct



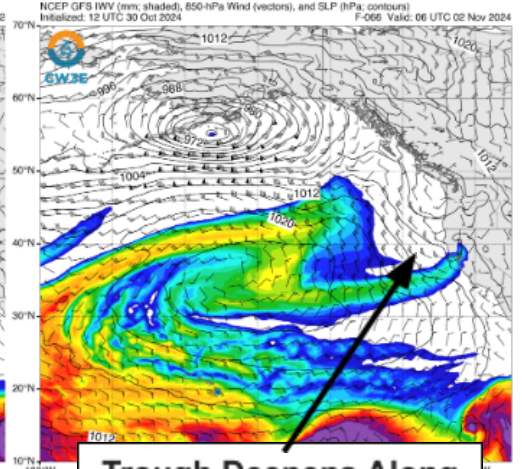
Shortwave Reaches Coast With Surface Low To North

Valid: 5 PM PT Thu 31 Oct

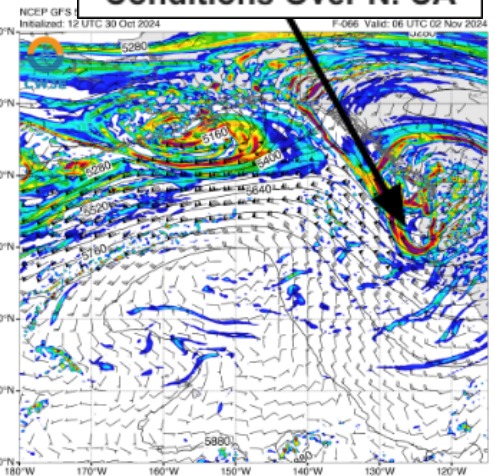
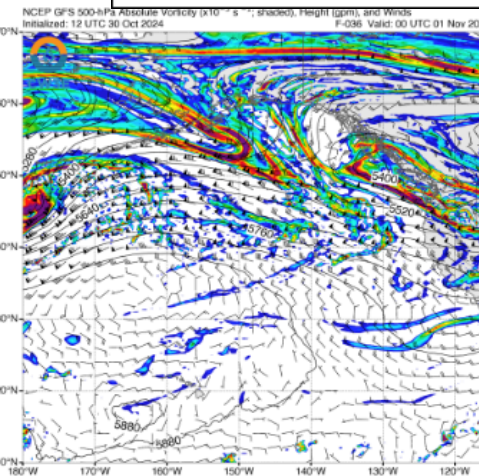
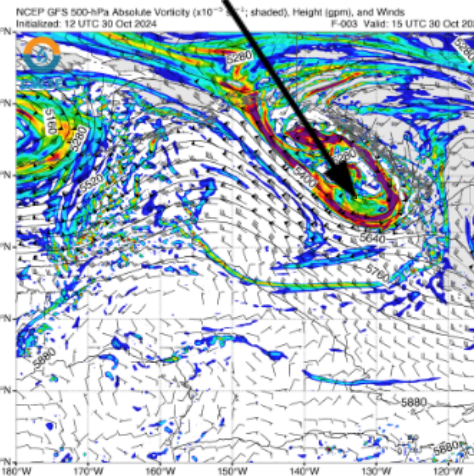


Surface Low Approaching USWC with Trough Developing Behind

Valid: 11 PM PT Sat 1 Nov



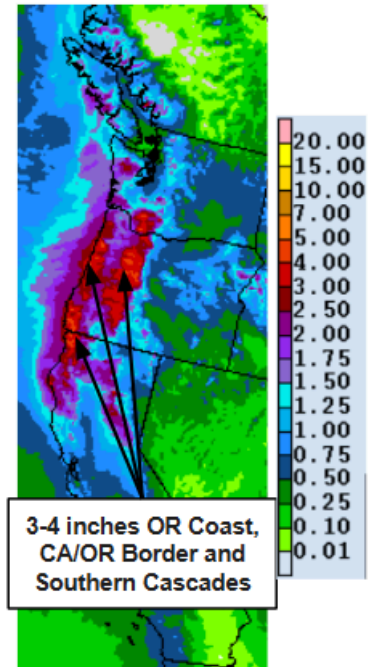
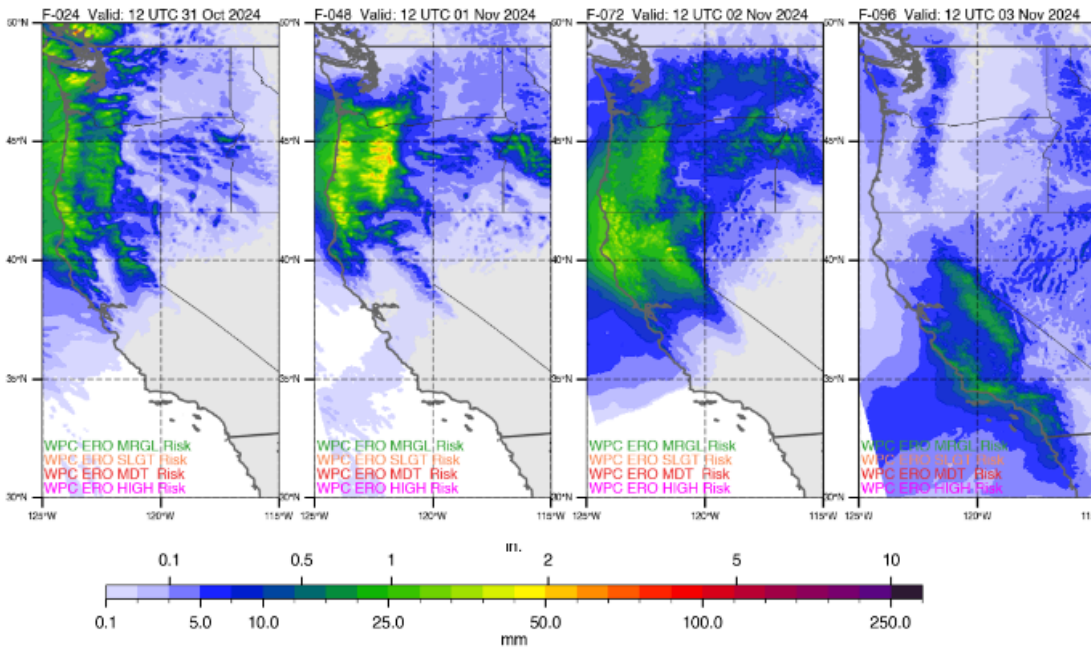
Trough Deepens Along US As Cyclone Moves Onshore; Potential for Short Term AR Conditions Over N. CA



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**WPC Days 1-4 QPF: Periods Ending 5 AM PT 31 Oct- 2 Nov
and 4 AM PT 3 Nov**

**WPC 5-Day QPF: Period
Ending 4 AM PT Mon 4 Nov**



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NWS Medford Snowfall Forecast

Cascades Snow Above 5000 Feet Wednesday into Friday
Weather Forecast Office Medford, OR
Tuesday, October 29

1-2 Feet from Wednesday Afternoon through late Friday Afternoon

1" an hour snowfall rates possible (60% to 80% chance) between 3 pm and 9 pm Wednesday

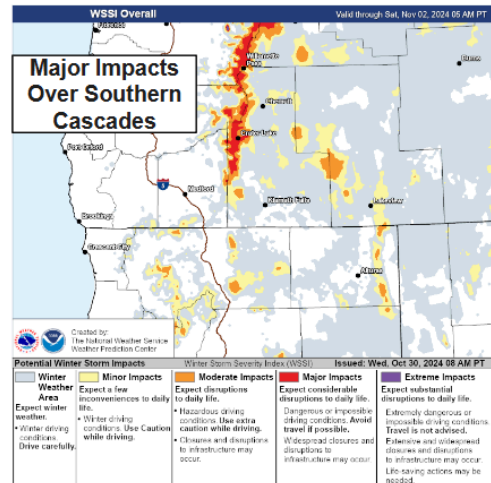
Stay tuned for additional details regarding Thursday and Friday

Areas Impacted:

- Crater Lake National Park
- Diamond Lake
- Highways 230, 62, and 138
- Highway 58 at Willamette Pass

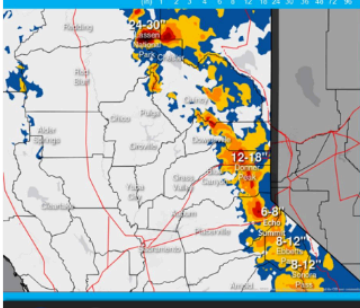
weather.gov/Medford
Updated: Tuesday, October 29th 10:00 PM PDT

NWS WWSI for Oct 30 Through Nov 2



NWS Sacramento Snowfall Forecast

Snow Forecast: Wed PM-Sat



Impact

- None
- Minor
- Minor/Moderate
- Major
- Extreme

Travel delays and slick roads

Monitor Caltrans Quickmap for road conditions

Chain controls

Snow Levels

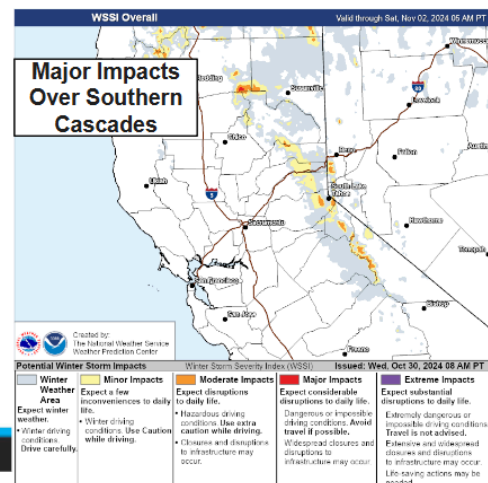
- Around 5000-6500 feet

Timing

- Wednesday Evening, October 30 - Saturday, November 2, 2024

National Weather Service - Sacramento, CA
Updated: Wednesday, October 30, 2024

NWS WWSI for Oct 30 Through Nov 2



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/>

Update by M. Steen

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