

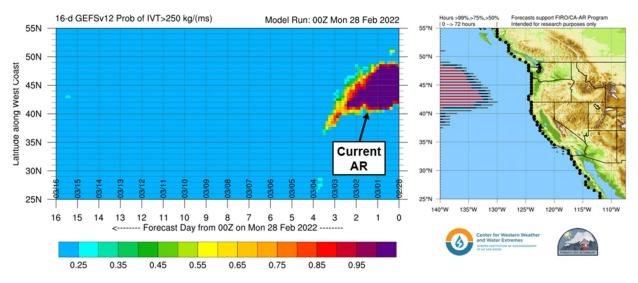
Latest Update on Active Weather Pattern Over the Pacific Northwest

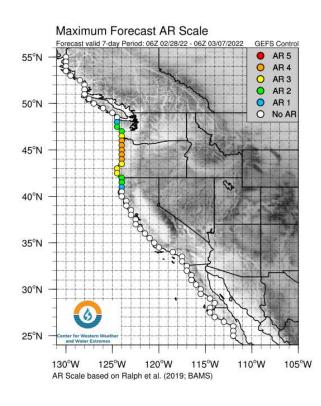
Updated: 28 February 2022

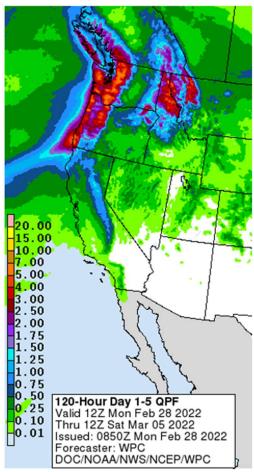
A quick look at the atmospheric river currently affecting the Pacific Northwest bringing rain-onsnow conditions to the mountains with the possibility of avalanches and flooding conditions.

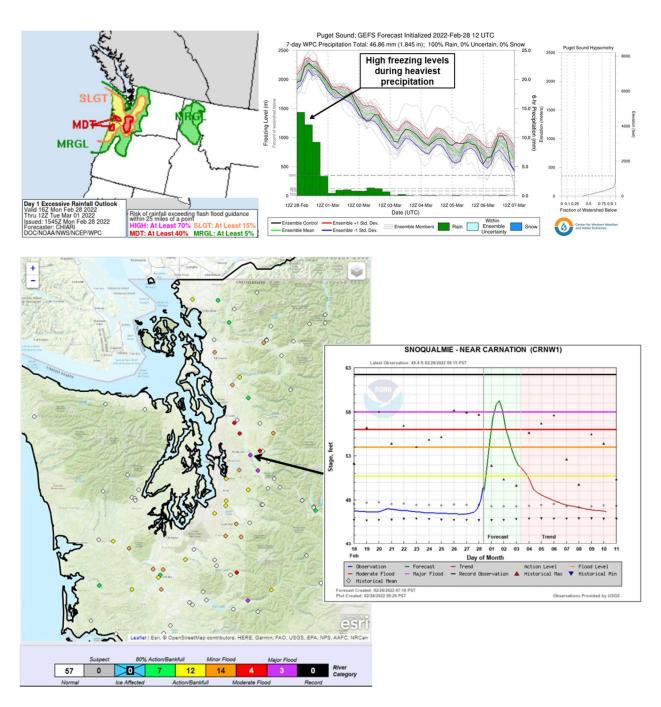
Forecast Highlights:

- After an extended break in atmospheric river (AR) activity along the US West Coast, two ARs affected the Pacific Northwest (PNW) over the weekend extending into this week
- The Global Ensemble Forecast System (GEFS) is showing very high probabilities (> 95%) of AR conditions (IVT ≥ 250 kg m⁻¹ s⁻¹) continuing over Washington, Oregon, and northwestern CA, ending 12Z 03 March
- The 06Z GEFS control and ensemble mean are both forecasting AR4 conditions through 06Z 02 March for much of coastal Oregon due to the combination of maximum IVT magnitude (> 750 kg m⁻¹ s⁻¹) and AR duration (> 48 hours)
- AR 1 to AR 3 conditions are expected for coastal Washington with AR 1/AR 2 conditions for far northwestern CA
- AR 2/AR 3 conditions are expected to extend inland into north-central Oregon and south-central Washington
- The National Weather Service (NWS) is forecasting an additional 4-5 inches of precipitation for the Cascades, Olympic, and Oregon Coast Ranges over the next three days with an inch over the Sierra Nevada over the next five days
- With the potential for heavy precipitation, the NWS has issued a slight-to-moderate risk of excessive rainfall for western Washington and northwestern Oregon today into tomorrow
- Freezing levels are expected to be quite high (>1500m) during the time of heaviest precipitation leading to substantial amounts of rain-on-snow.
- 21 river gauges in western Washington are forecast to exceed flood stage between today and 02 March with three gauges forecast to reach major flood stage









<u>Additional Considerations:</u>

Visit https://nwrfc.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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