

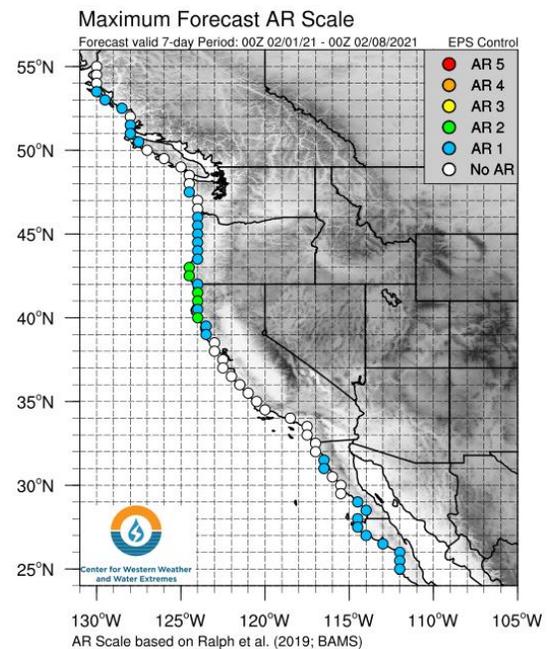
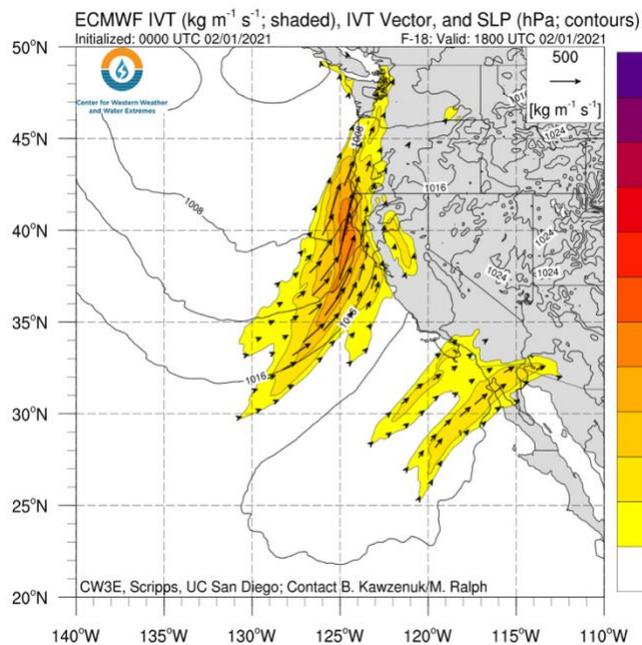
Update on Atmospheric River Currently Impacting Northern California

Updated: 1 Feb 2021

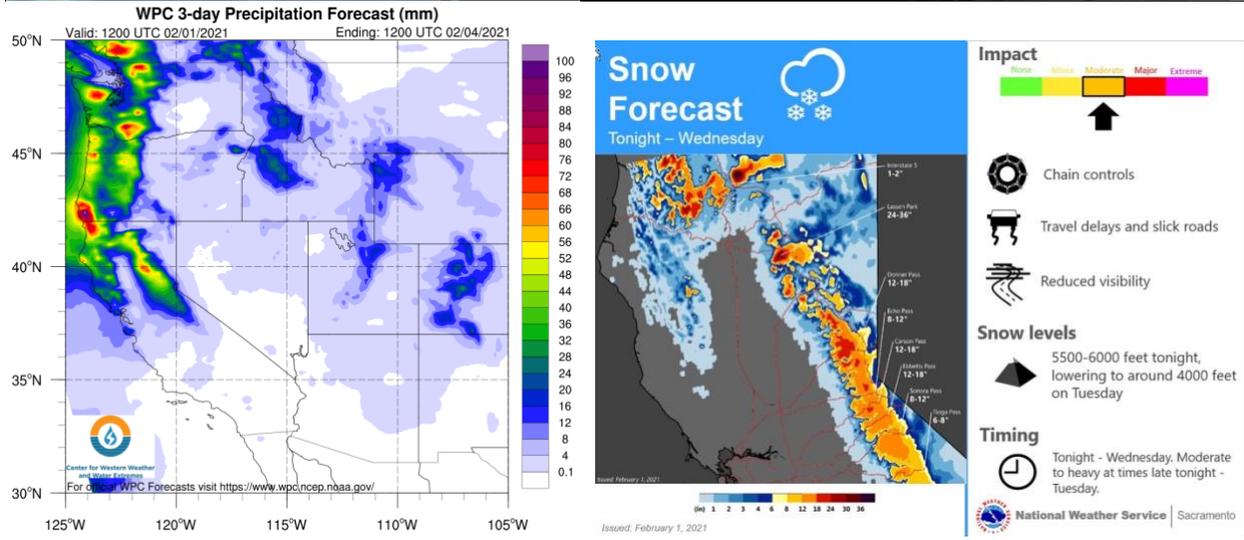
A look into the atmospheric river (AR) and precipitation event currently affecting Northern California.

Forecast Highlights:

- An AR made landfall along the coast of Northern California and Oregon Saturday afternoon
- Although the moisture transport associated with this AR is not especially strong (maximum IVT $\sim 600 \text{ kg m}^{-1} \text{ s}^{-1}$), the AR has stalled along the coast and will continue to bring AR conditions to the region today
- The strongest moisture transport is forecast to occur this afternoon over coastal Northern California
- The combination of forecast IVT magnitude ($> 500 \text{ kg m}^{-1} \text{ s}^{-1}$) and AR duration (> 24 hours) will likely produce AR 2 conditions (based on the Ralph et al. 2019 AR Scale) in parts of coastal Northern California and Southern Oregon
- More than 2 inches of precipitation has already fallen in some locations in the Northern California Coast Ranges
- At least 1–3 inches of additional precipitation are expected across portions of Northern California and Southern Oregon, with higher amounts possible in the Klamath Mountains
- More than 12 inches of total snowfall is forecast over portions of the Klamath Mountains, Northern Sierra Nevada, and Central Sierra Nevada, but warmer conditions will limit snowfall accumulations below 6,000 ft
- Rain-on-snow is likely at lower elevations that received snow during the previous storm



Stay tuned to the CW3E webpage for a full AR Update



Additional Considerations:

- Visit <https://cwrfc.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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