



## Latest update on AR family forecast to impact Northern and Central California

*Updated: 6 January 2023*

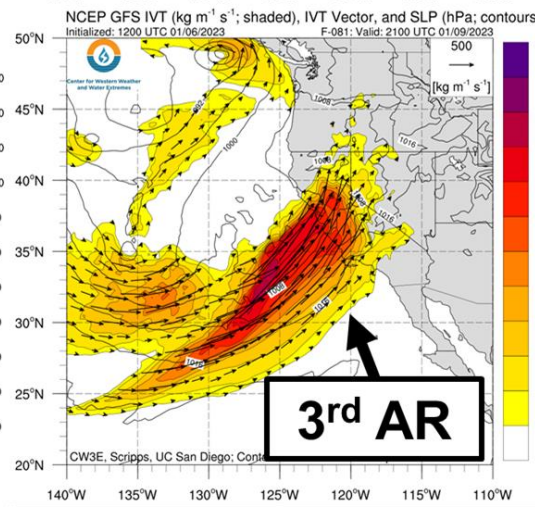
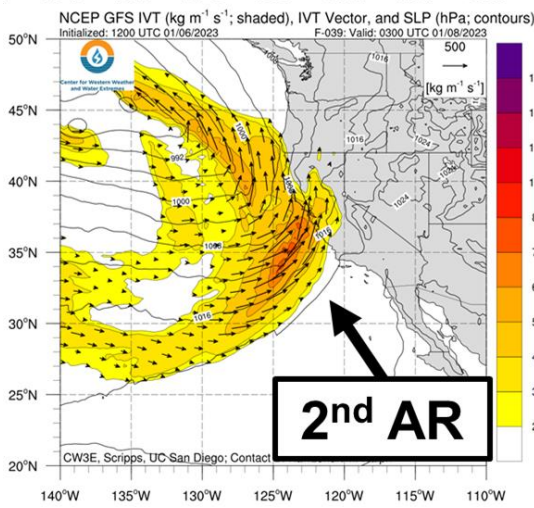
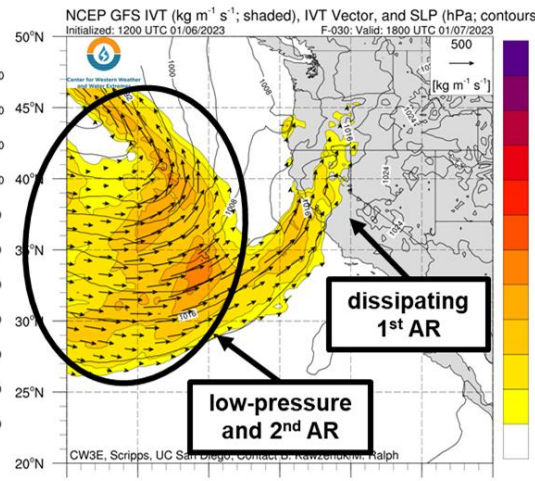
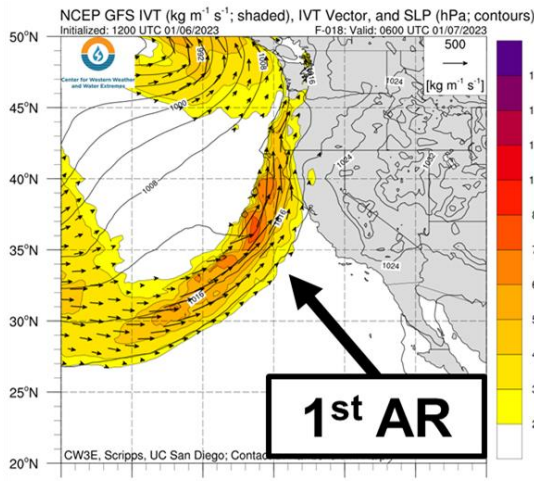
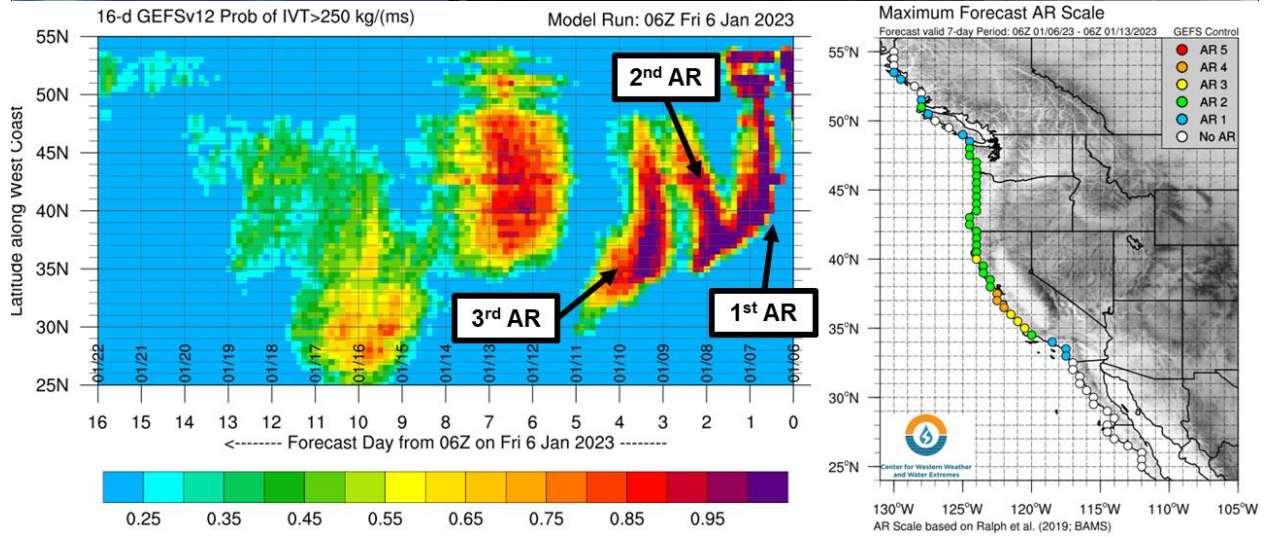
A quick look at the family of atmospheric rivers forecast to bring additional rainfall to Northern and Central California over the next five days

### Forecast Highlights:

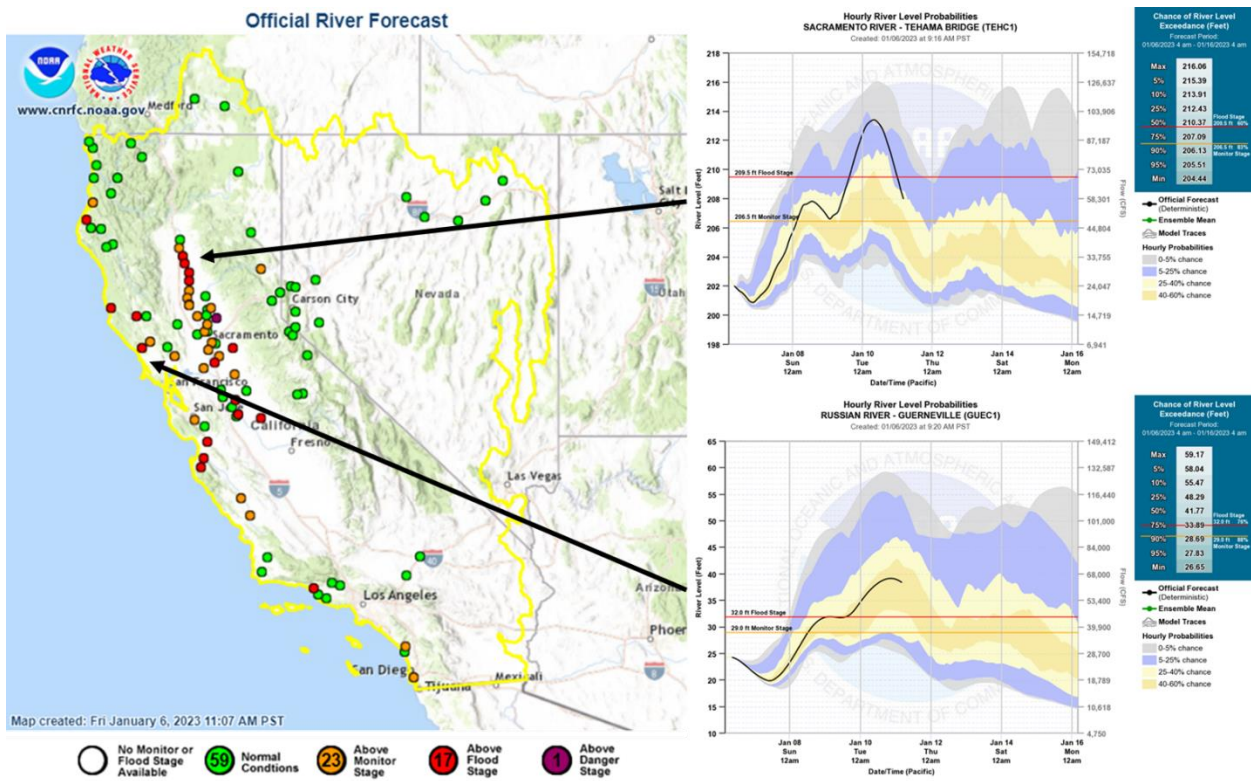
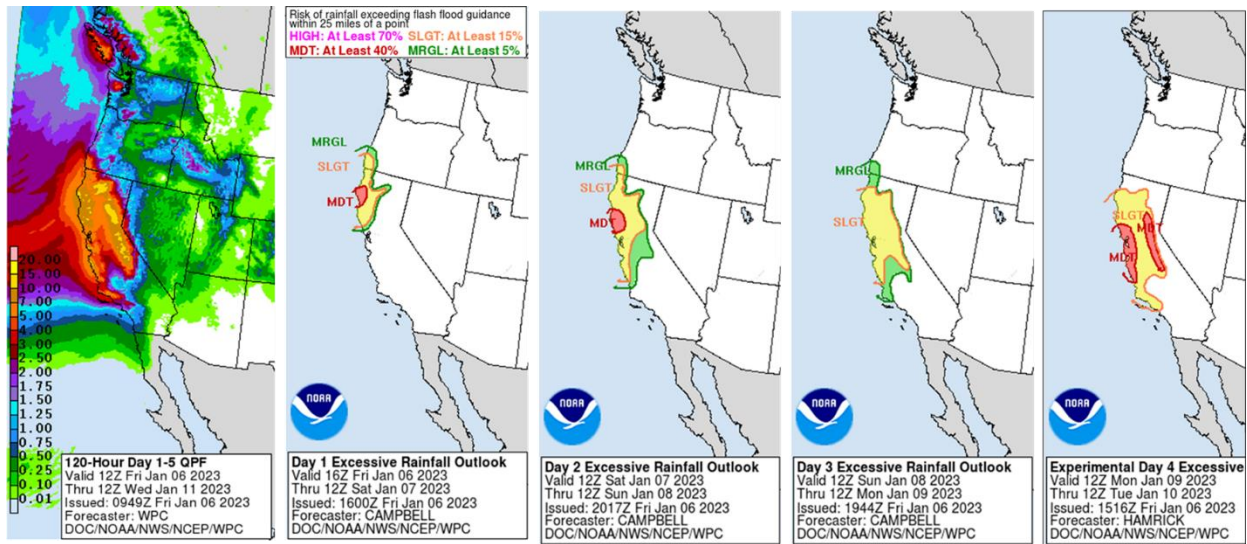
- A family of ARs ([Fish et al. 2019](#)) is forecast to make landfall beginning today and continuing into early next week
- The first AR is forecast to make landfall today and bring a period of IVT > 400 kg/ms into Northern and Central California through midday tomorrow
- Before AR conditions from the first AR completely dissipate, a second AR associated with a surface low-pressure system is forecast to bring a stronger pulse of IVT > 600 kg/ms to the same areas, resulting in AR 2 conditions (based on the Ralph et al. 2019 AR Scale)
- The third and strongest AR is forecast to make landfall along the coast of Northern California with IVT exceeding 750 kg/ms resulting in AR 3/AR 4 conditions in the region, although uncertainty remains in the exact timing, intensity, duration, and position of this system
- The 06Z GEFS control is currently forecasting an AR 4 over portions of Central and California in association with the third AR
- The NWS Weather Prediction Center is forecasting more than 7 inches of precipitation for a broad area over coastal Northern and Central California, the Southern Cascades, and Sierra Nevada over the next 5 days
- The NWS Weather Prediction Center is forecasting a slight chance (at least 15%) of excessive rainfall throughout Northern and Central California beginning today and continuing into next Tuesday. A moderate chance (at least 40%) of excessive rainfall is forecast for coastal Northern California today through Sunday morning in association with the first two ARs, as well as for the Bay Area and Central Sierra Nevada on Monday and Tuesday in association with the third AR
- The NWS California Nevada River Forecast Center has forecast numerous rivers in Northern and Central California to exceed flood stage over the next 5 days during this period of extended AR activity
- Flood Watches and Winter Storm Warnings have been issued by NWS offices in Northern and Central California in association with the third AR in this family

**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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Visit [weather.gov](https://weather.gov) and [cnrfc.noaa.gov](https://cnrfc.noaa.gov) for point specific forecast and updated streamflow guidance

In-depth AR forecasts products can be found here:  
<http://cw3e.ucsd.edu/iwv-and-ivt-forecasts/>

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