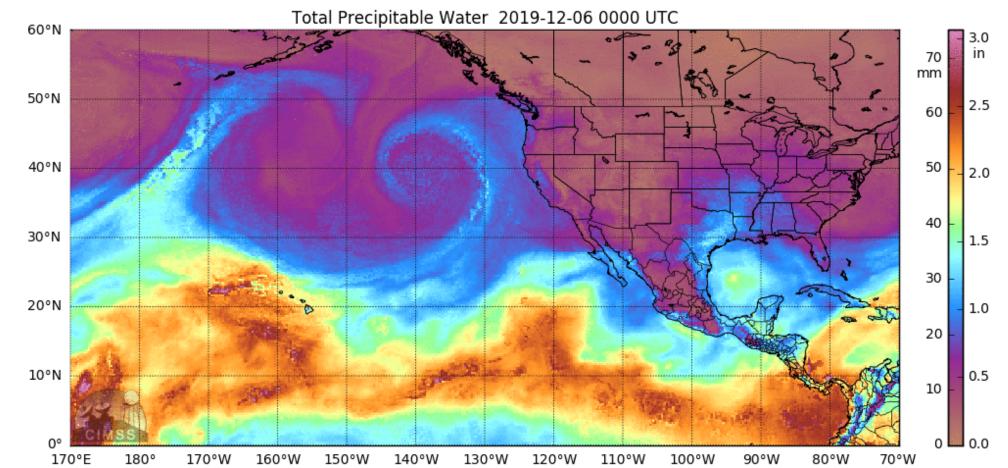
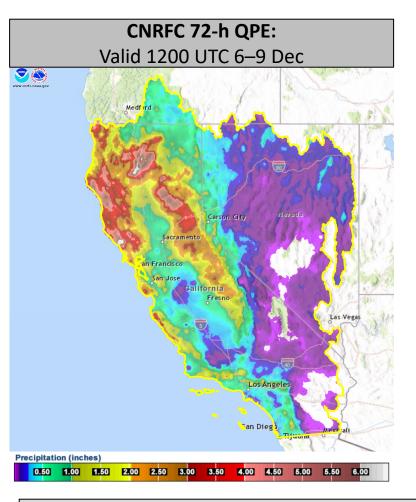


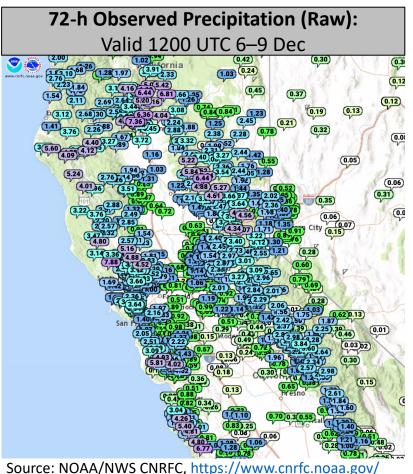
Landfalling AR brings another round of heavy rainfall and mountain snowfall to Northern CA

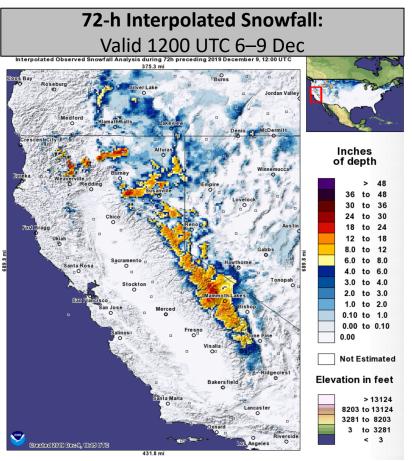
- The AR was associated with a large midlatitude cyclone over the Northeast Pacific Ocean
- Storm total precipitation exceeded 5 inches in some parts of the Coast Ranges, Klamath Mountains, and Sierra Nevada
- Higher elevations in the Sierra Nevada received 1-2 feet of snow







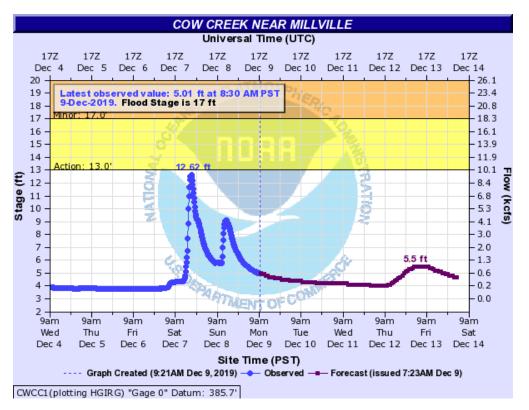


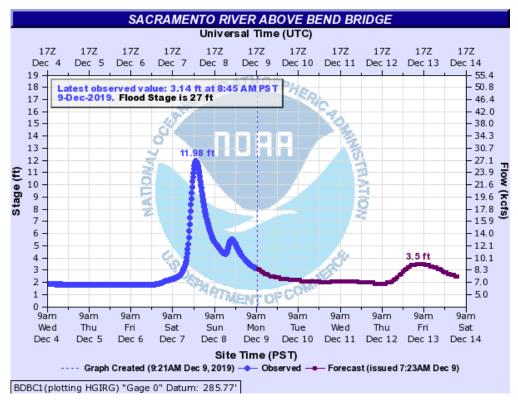


Source: NOAA/NWS NOHRSC, https://www.nohrsc.noaa.gov/

- Heaviest precipitation (3-7 inches) occurred over the Northern CA Coast Ranges, the Klamath Mountains, and the Northern Sierra Nevada
- A few stations in the Central CA Coast Ranges also reported > 5 inches of rainfall
- An estimated 1-2 feet of snow fell over parts of the Sierra Nevada (primarily above 8,000 feet)
- Due to relatively mild conditions and high freezing levels, little snowfall was observed below 6,000 feet



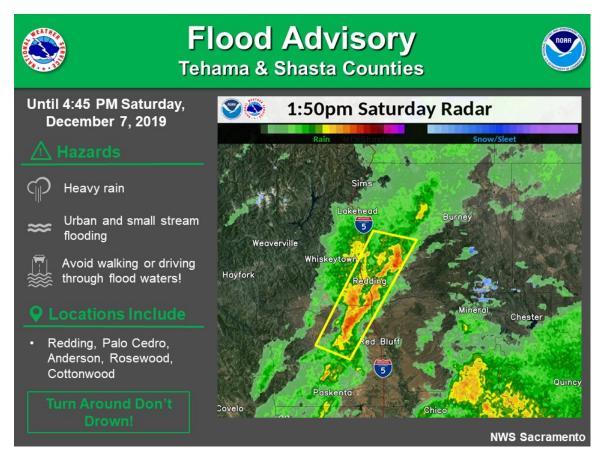


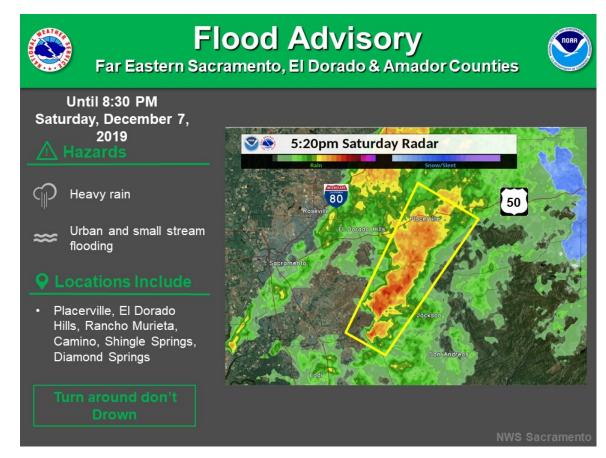


Source: NOAA/NWS Advanced Hydrologic Prediction Service, https://water.weather.gov/ahps/

- Heavy rainfall on 7 Dec triggered a rapid rise in stage height (> 8 feet in 6 hours) at Cow Creek near Millville, CA, and the Sacramento River above Bend Bridge
- Redding Airport recorded 0.72 inches of rainfall in a 1-hour period ending 1 PM PST 7 Dec and set a new daily rainfall record (2.72 inches)
- NWS Sacramento received several reports of flooded roadways in Shasta and El Dorado Counties



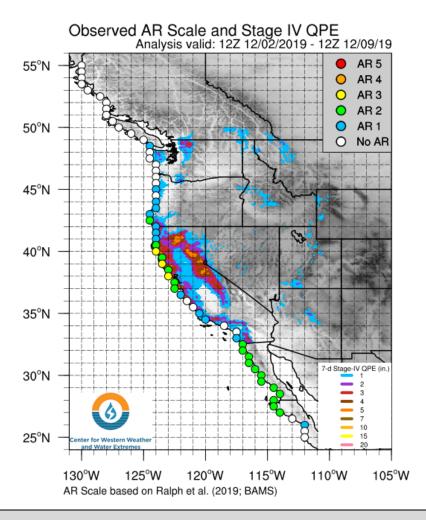


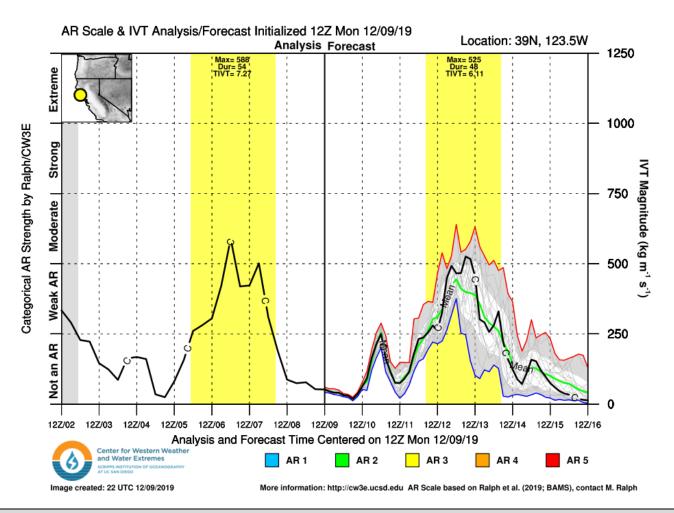


Source: NOAA/NWS Sacramento, https://www.weather.gov/sto/

- NWS radar indicated regions of intense rainfall near Redding, CA, and Placerville, CA, during the afternoon and evening of 7 Dec
- In response, NWS Sacramento issued Flood Advisories for Shasta and El Dorado Counties (where street flooding was reported)

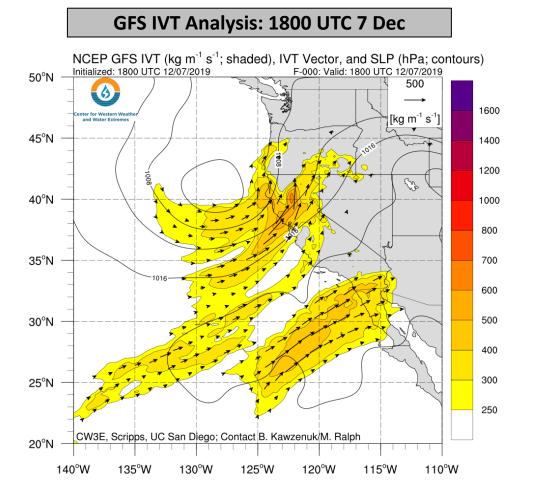




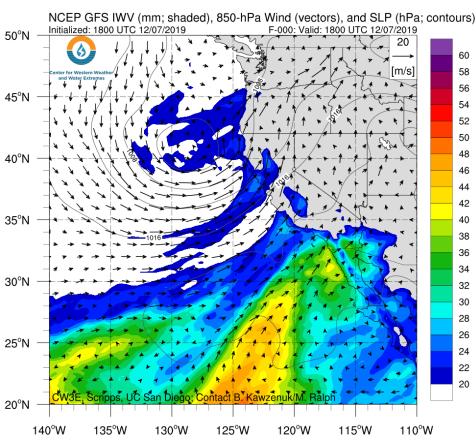


- Heavy precipitation on 6–8 Dec was associated with a landfalling AR along the coast of Northern CA and southern OR
- AR3 conditions (duration ≥ 48 hours; max IVT ≥ 500 kg m⁻¹ s⁻¹) were observed near Point Arena, CA
- Another landfalling AR is expected to impact Northern CA later this week







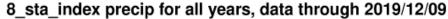


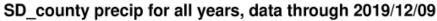
- 1800 UTC 7 Dec GFS analysis shows high IVT values (> 500 kg m⁻¹ s⁻¹) and IWV values (> 20 mm) penetrating into the northern Sacramento Valley
- The orientation of the IVT vectors and 850-hPa wind vectors suggests that upslope moisture flux likely enhanced precipitation amounts over the Northern CA Coast Ranges, the Klamath Mountains, and the Northern Sierra Nevada

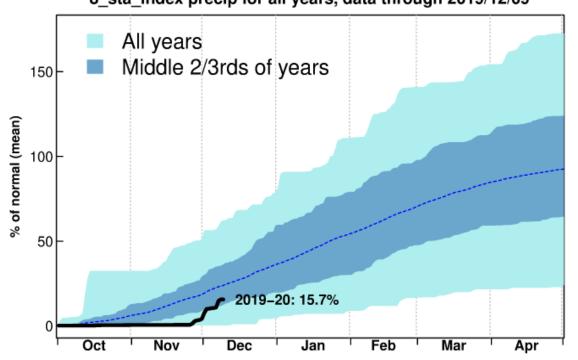


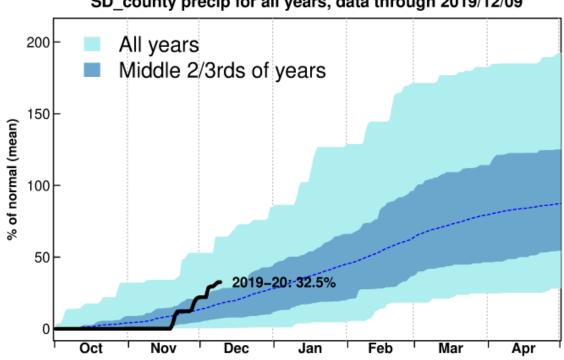
Northern Sierra Nevada Precipitation

San Diego County Precipitation









Source: California-Nevada Applications Program, https://scripps.ucsd.edu/programs/cnap/

- The recent wet pattern has helped reduce precipitation deficits over the Northern Sierra Nevada, but total water year-to-date precipitation remains below the long-term mean
- By comparison, total water year-to-date precipitation is well above the long-term mean in Southern CA
- As of 9 Dec, San Diego County has already received > 30% of its normal total water year precipitation