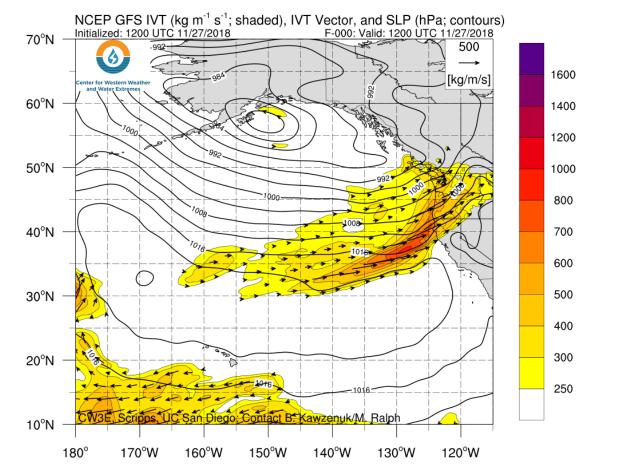
CW3E Atmospheric River Outlook

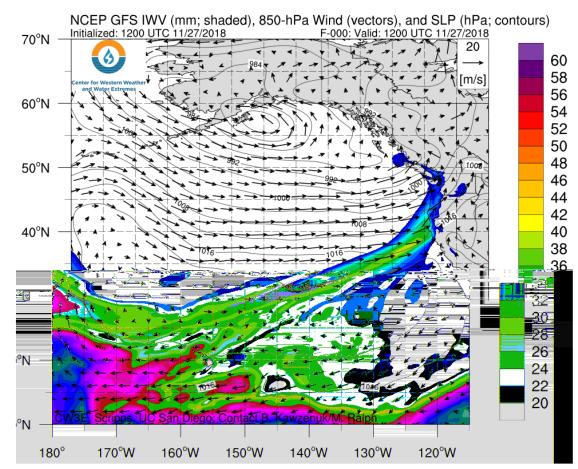
For California DWR's AR
Program



Update on ARs Forecast to Impact SoCal Later This Week and Over the Weekend

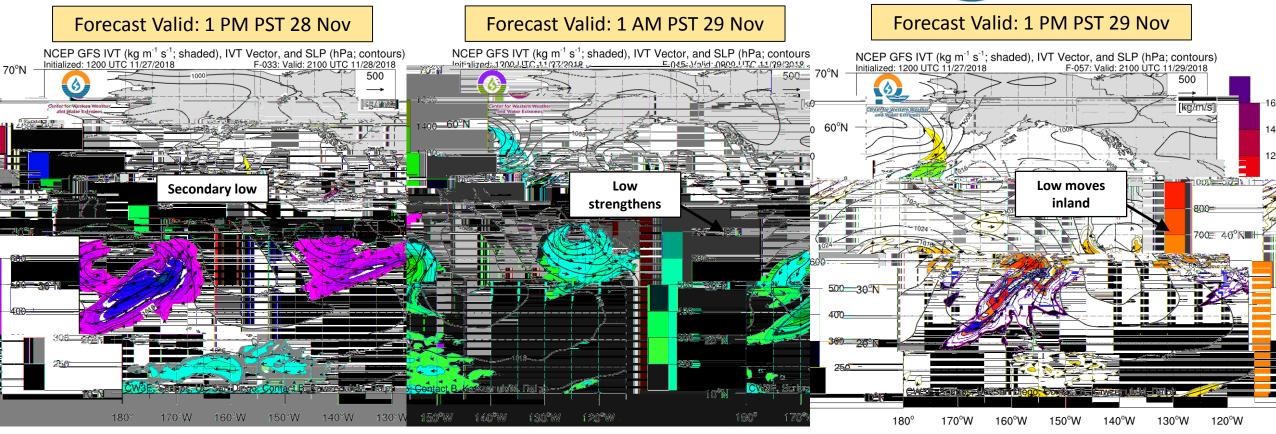
- An AR that is currently impacting Northern California is forecast to propagate southward and bring AR conditions to SoCal
- A secondary low is forecast to develop along the cold front of the current AR and propagate eastward over CA
- The development of this secondary low is forecast to extend AR conditions over SoCal and bring additional precipitation
- Additional AR activity is also forecast over SoCal for the weekend, which could lead to more precipitation
- NOAA CNRFC is currently forecasting as 3+ inches of precipitation over the mountains of SoCal for the next 6 days





For California DWR's AR Program





A Secondary low is forecast to develop over the Northeastern Pacific to the northwest of the current AR as it is over Southern California

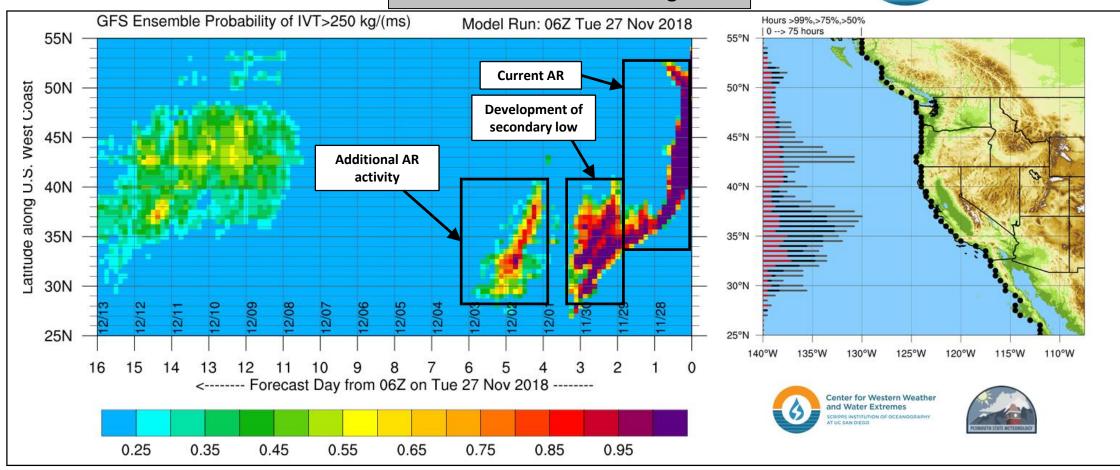
The low is forecast to strengthen and propagate eastward over the Northern California coastline by 1 AM PST on 29 Nov.

The low continues to propagate inland, extending the duration of AR conditions along the coast of California

For California DWR's AR Program

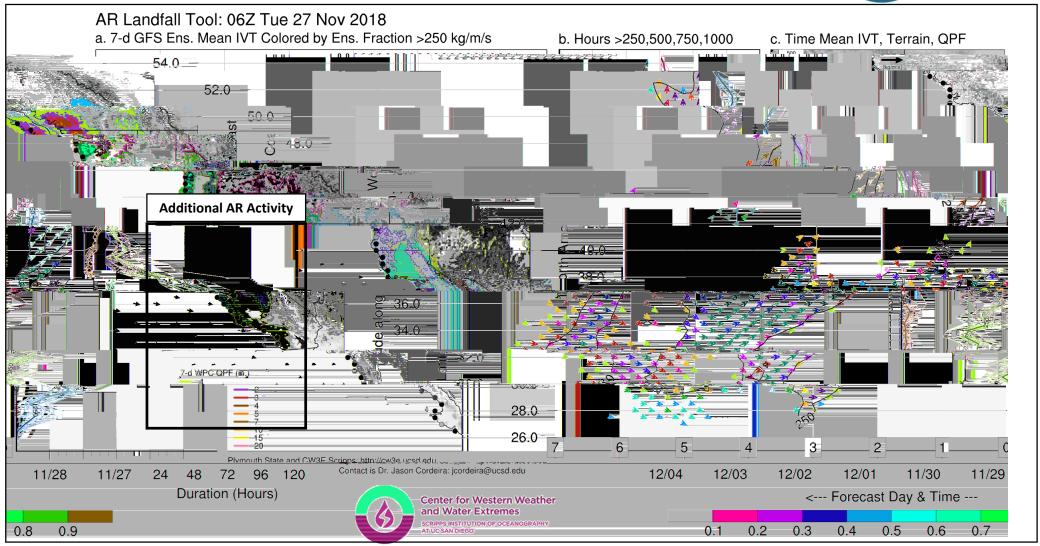


Odds of AR Conditions Along Coast



- The AR that is currently impacting the Pacific Northwest is forecast to propagate over the U.S. West Coast bringing AR conditions to the Bay Area today and Southern California on Thursday
- As the AR is impacting SoCal, a secondary low is forecast to develop along the cold front, resulting in extended duration of AR conditions over SoCal
- This secondary low is also forecast to propagate inland over CA, bringing additional precipitation and high winds to the mountains.





The IVT associated with the AR activity between 01 and 03 December is currently forecast to have a west/northwesterly orientation, which will likely result in different impacts compared to the southwesterly AR that is forecast to impact SoCal tomorrow and Thurs.

For California DWR's AR Program



The GEFS suggests moderate AR conditions over San Diego County on Thursday and weak to moderate AR conditions on Sunday.

Magnitude of potential AR 1 (21 November)

• Maximum predicted IVT ~575 kg m⁻¹ s⁻¹

• Mean IVT \sim 500 kg m⁻¹ s⁻¹

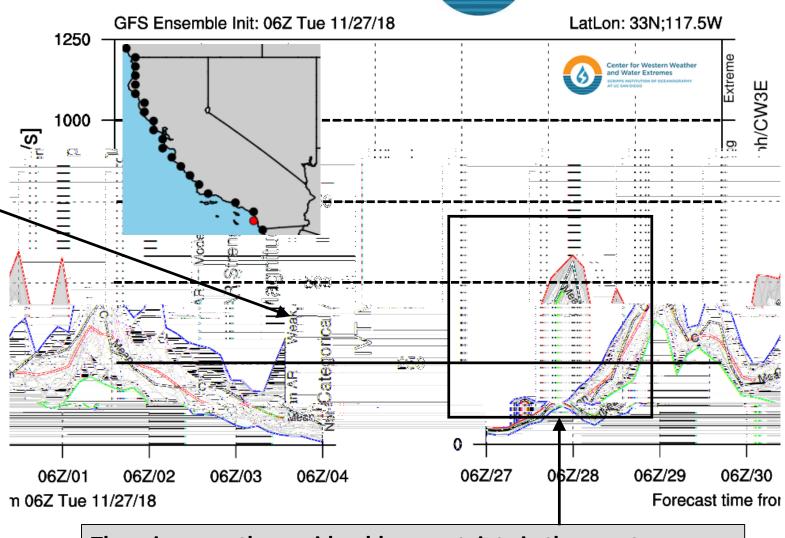
Minimum IVT \sim 400 kg m⁻¹ s⁻¹

Forecast duration of AR conditions

• Weak 30 hours +/- 12

• Moderate 6 hours +/- 6

The AR conditions that are associated with the development of a secondary low are currently forecast to bring IVT magnitudes of ~400–500 kg m⁻¹ s⁻¹ but uncertainty is currently higher

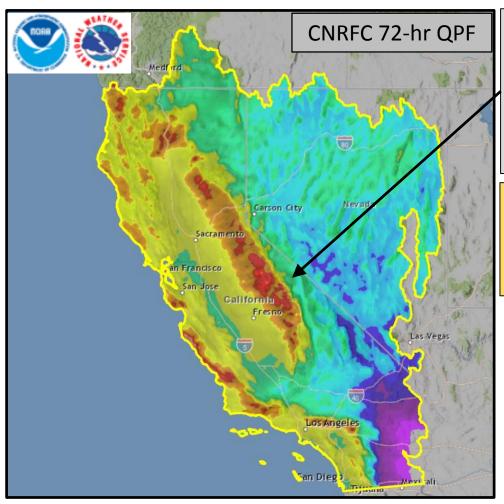


There is currently considerable uncertainty in the onset, magnitude and duration of AR conditions associated with the AR forecast to impact SoCal on Saturday 1 December





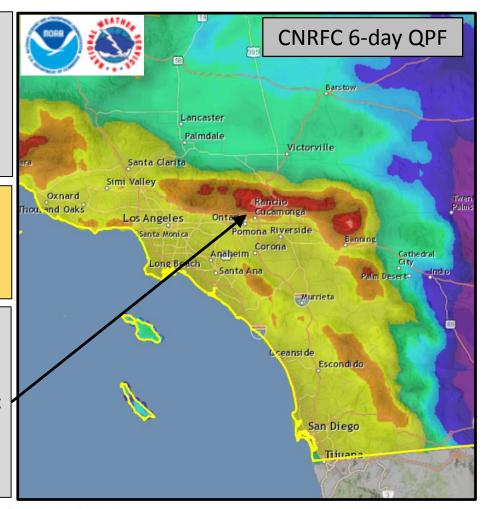




The CNRFC is currently forecasting 2+ inches of precipitation for the higher elevations across California over the next 72-hours ending 4 AM 30 November

NWS California Nevada River Forecast Center forecast products are located at cnrfc.noaa.gov

The mountains of Southern California are forecast to receive 2.5 to 4.25 in. while lower elevations are forecast to receive 1–2.5 in. over the next 6-days ending 4 AM 03 December



Precipitation (inches)





