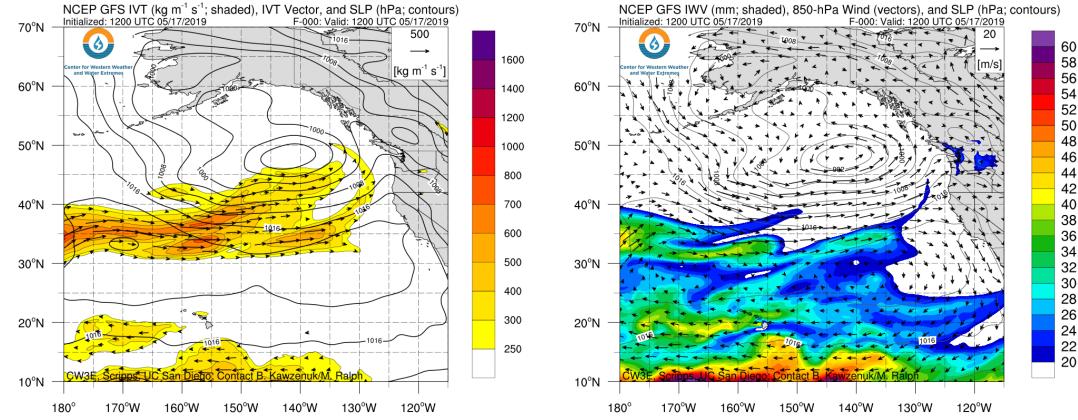
CW3E Atmospheric River Outlook



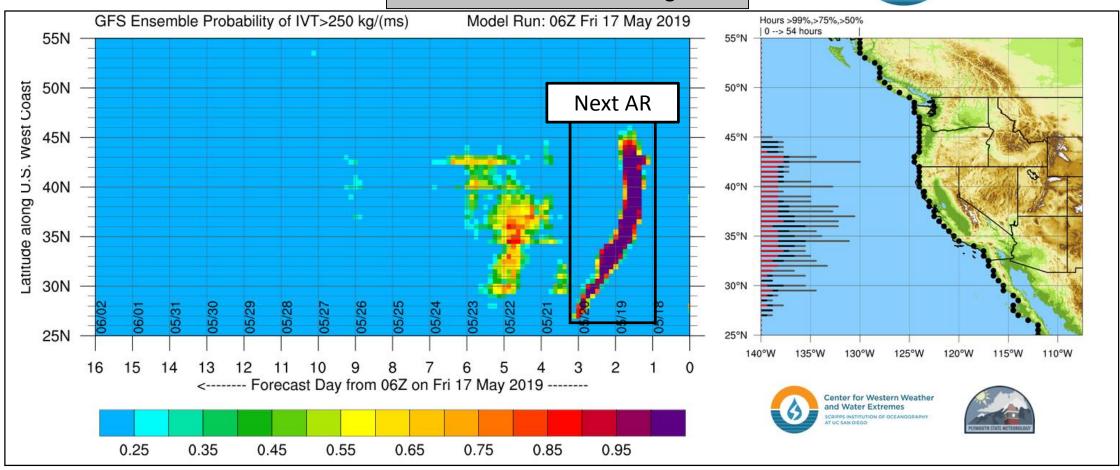
The last in a series of late season atmospheric rivers is forecast to bring precipitation to most of California this weekend

- The GEFS is currently predicting a high probability of weak AR conditions lasting ~12 hours for a majority of Coastal CA
- As much as 3 inches of precipitation is forecast to fall over the high elevations of the Coastal Mountains and Trinity Alps
- With as much as 6 inches of precipitation falling over the previous 72-hours, numerous locations across the state have double their normal precipitation for the month of May
- This system is forecast to be associated with seasonably low freezing levels (~5,000 ft.), resulting in a high probability of at least 8 inches of snow across much of the Sierra Nevada Mountains





Odds of AR Conditions Along Coast



- The GEFS is currently forecasting a high probability (>95% of ensemble members) of at least weak strength AR conditions (IVT >250 kg/(ms)) over coastal locations from Central Oregon to Mexico
- A majority of Coastal locations are forecast to receive 6-12 hours of AR conditions with some slight uncertainty in exact onset and end
 of AR conditions



The GEFS is currently predicting weak strength AR conditions over Coastal Sonoma County, CA

Maximum Magnitude of first potential AR

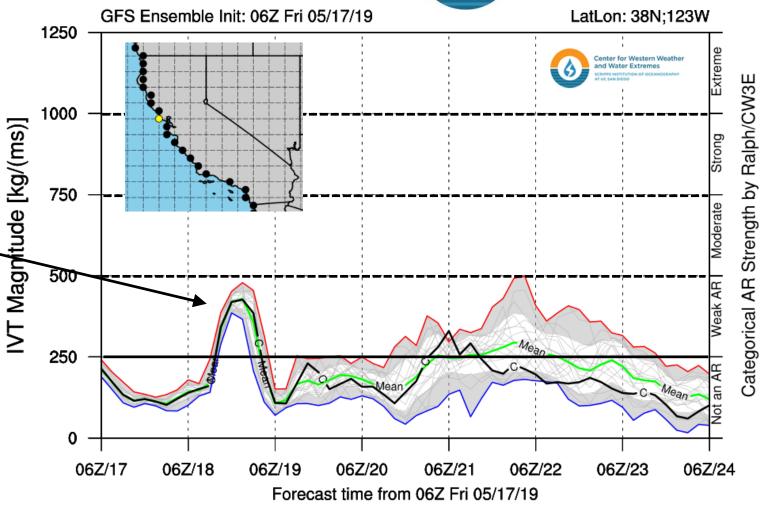
• Maximum predicted IVT ~475 kg m⁻¹ s⁻¹

• Mean IVT \sim 400 kg m⁻¹ s⁻¹

• Control IVT \sim 400 kg m⁻¹ s⁻¹

Forecast duration of AR conditions

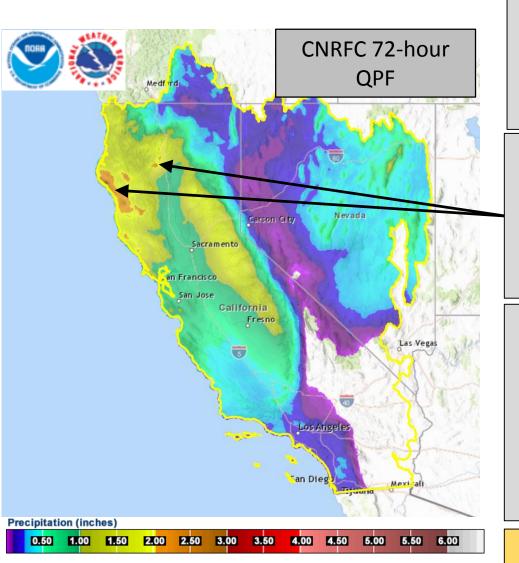
• Weak 12 hours +/- 3









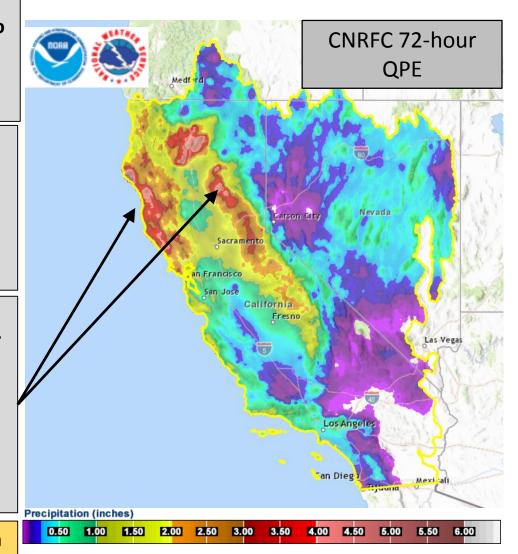


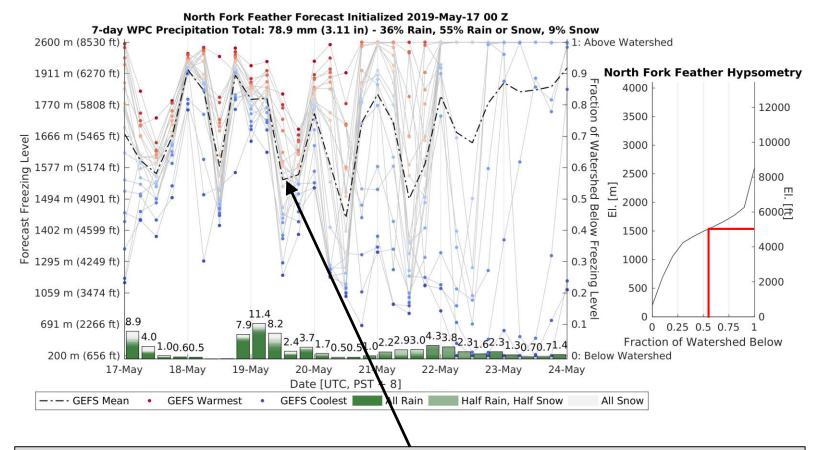
The CNRFC is currently forecasting as much as .5 to 3 inches of precipitation over Central to Northern California

The highest precipitation accumulations (1.25 to 3 inches) is forecast to fall over the Sierra Nevada, Trinity Alps, and Coastal Mountains

With as much as 5 to 6 inches of precipitation over the past 72-hours and the additional precipitation in the forecast, several locations across California have already doubled the average May precipitation

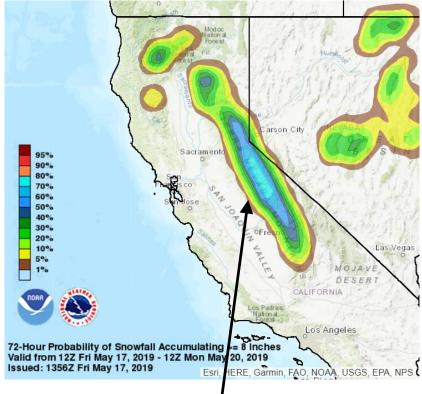
Precipitation products from cnrfc.noaa.gov and





During the landfalling AR, freezing levels over the Northern Sierra Nevada Mountains are forecast to lower to ~5,000 feet, which would place ~55% of the North Fork of the Feather River Watershed below freezing





Due to the unseasonably low freezing levels associated with this event, there is a high probability (up to 80%) of at least 8 inches of snow for parts of the Sierra Nevada Mountains