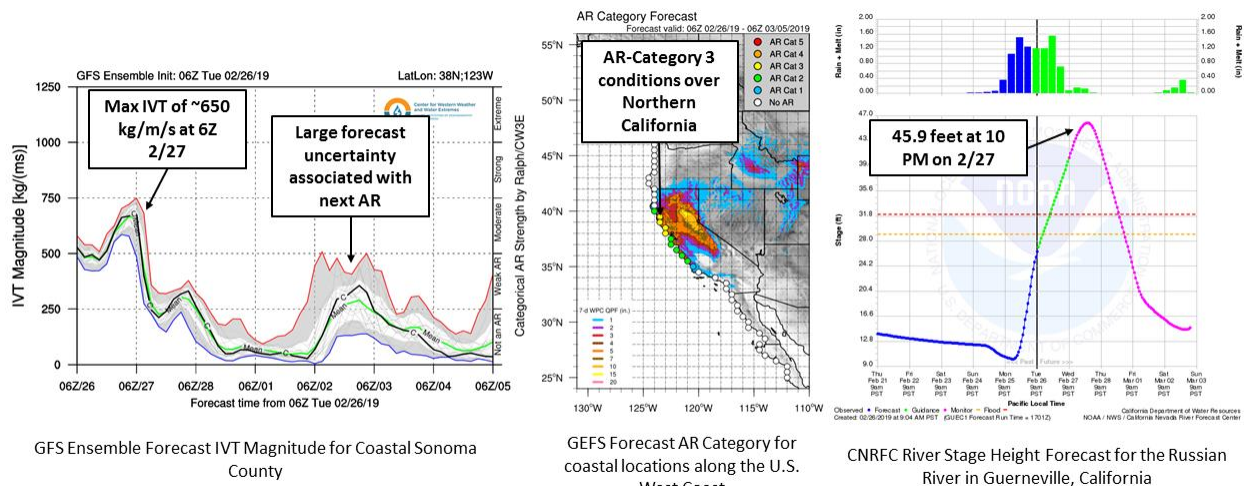## Latest update on Atmospheric River Currently Impacting Northern California
Updated: 26 Feb. 2019

A look into the atmospheric river currently impacting Northern California and the AR currently forecast to make landfall on 02 March 2019.

Forecast Highlights:

- The AR currently impacting Northern California is forecast to last through tomorrow morning with the highest integrated vapor transport (IVT) expected over Coastal Northern California around 06Z 2/27 (~650 kg/m/s).

- The current AR is forecast to produce >10 inches of storm total precipitation over numerous high elevation locations in Northern California with as much as 16 inches over the Northern Sierra.

- The California-Nevada River Forecast Center is currently forecasting several rivers in Northern California to rise above flood stage, including the Russian River in Guerneville, CA, which is forecast to rise to 45.9 feet (Several evacuations have been recommended along the river in Sonoma County).

- The IVT magnitudes and duration that the GEFS is currently forecasting suggest that this AR could be associated with AR Category 3 conditions along the Northern California Coastline based on the recently publish Atmospheric River Category Scale (**Ralph et al. 2019**)

GFS Ensemble Forecast IVT Magnitude for Coastal Sonoma County

GEFS Forecast AR Category for coastal locations along the U.S. West Coast

CNRFC River Stage Height Forecast for the Russian River in Guerneville, California

A river stage height of 45.9 feet on the Russian River in Guerneville is only 3.6 feet below the flood of record (2/18/1986).

- The GFS is currently forecasting the landfall of a weaker and shorter AR on 02 March 2019
- Forecast uncertainty associated with the next AR is currently high, but forecasts suggests an additional 2–3 inches of precipitation across portions of Northern to Central California

Additional Considerations:

- Visit https://www.weather.gov/ for point specific forecasts, watches, and warnings and https://cnrfc.noaa.gov/ for specific river and stream forecasts

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

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Stay tuned to the CW3E webpage for a full AR Update