

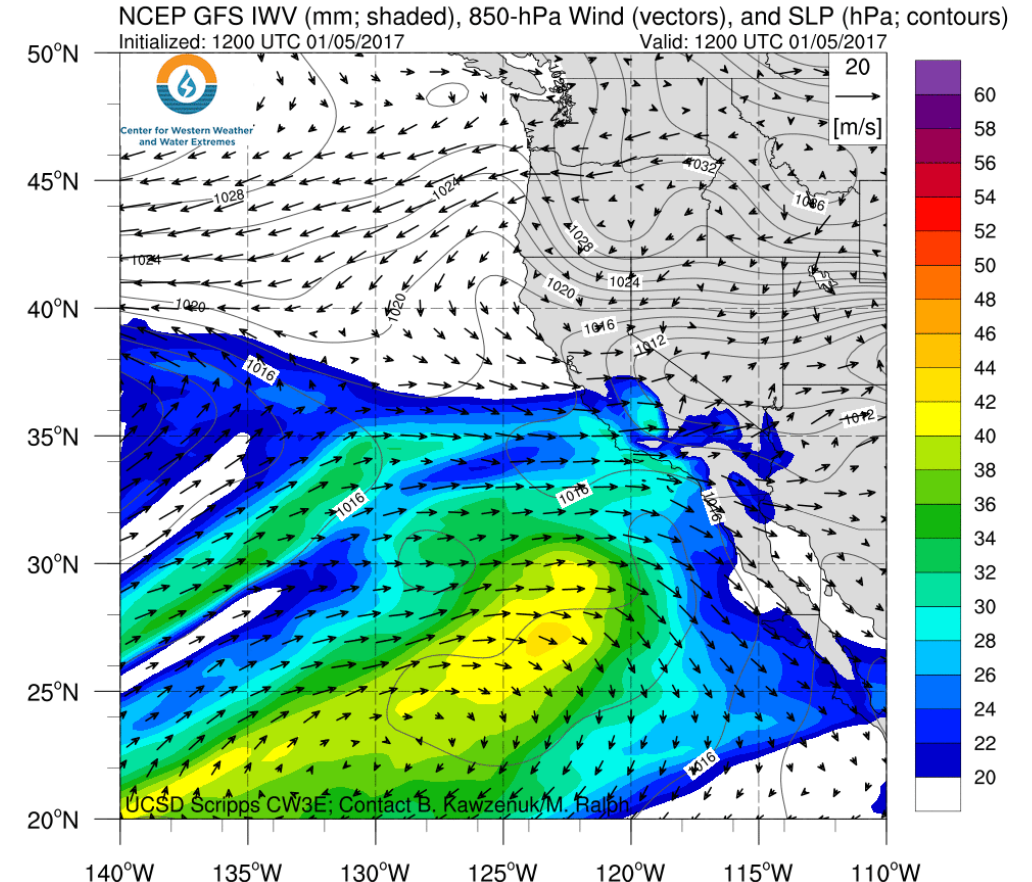
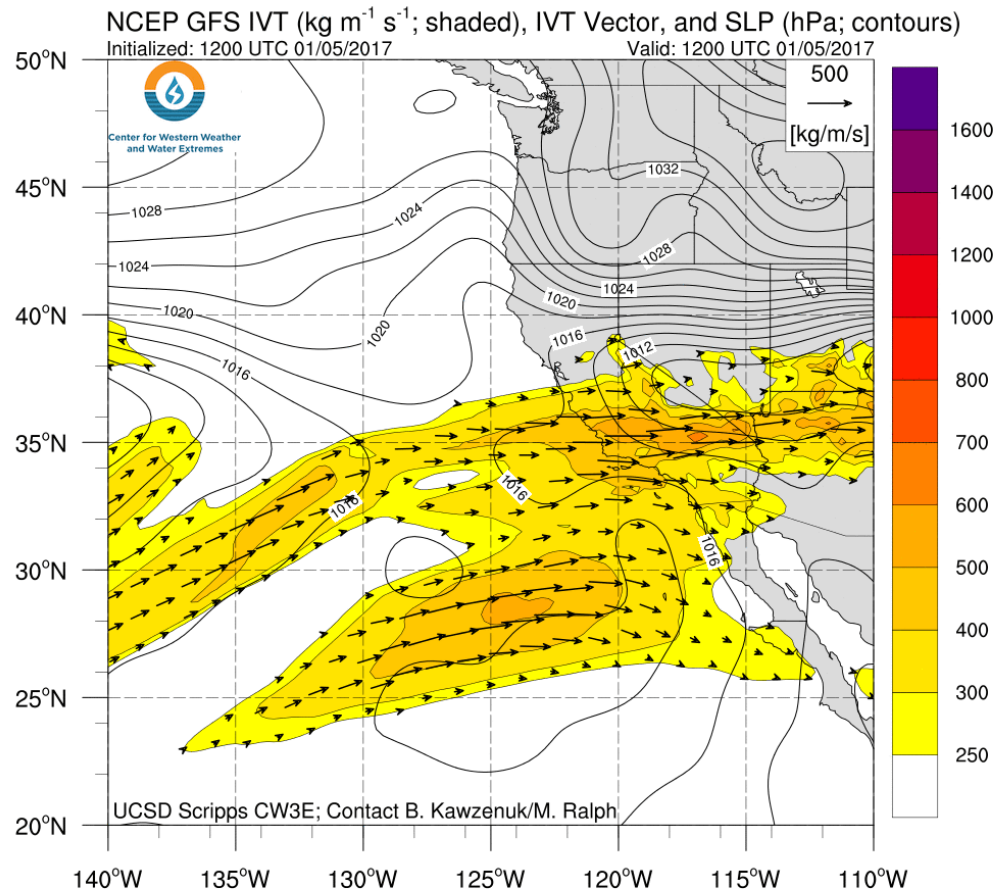
CW3E Atmospheric River Update

Update on Strong AR over the weekend

- Forecasts continue to suggest the landfall of a strong AR over the weekend
- Updated forecasts indicate that AR duration may decrease, which suggests lower precipitation amounts in some locations
- Several more river gauges are expected to rise above flood stage
- Extended forecasts predict another AR early next week potentially bringing more precipitation



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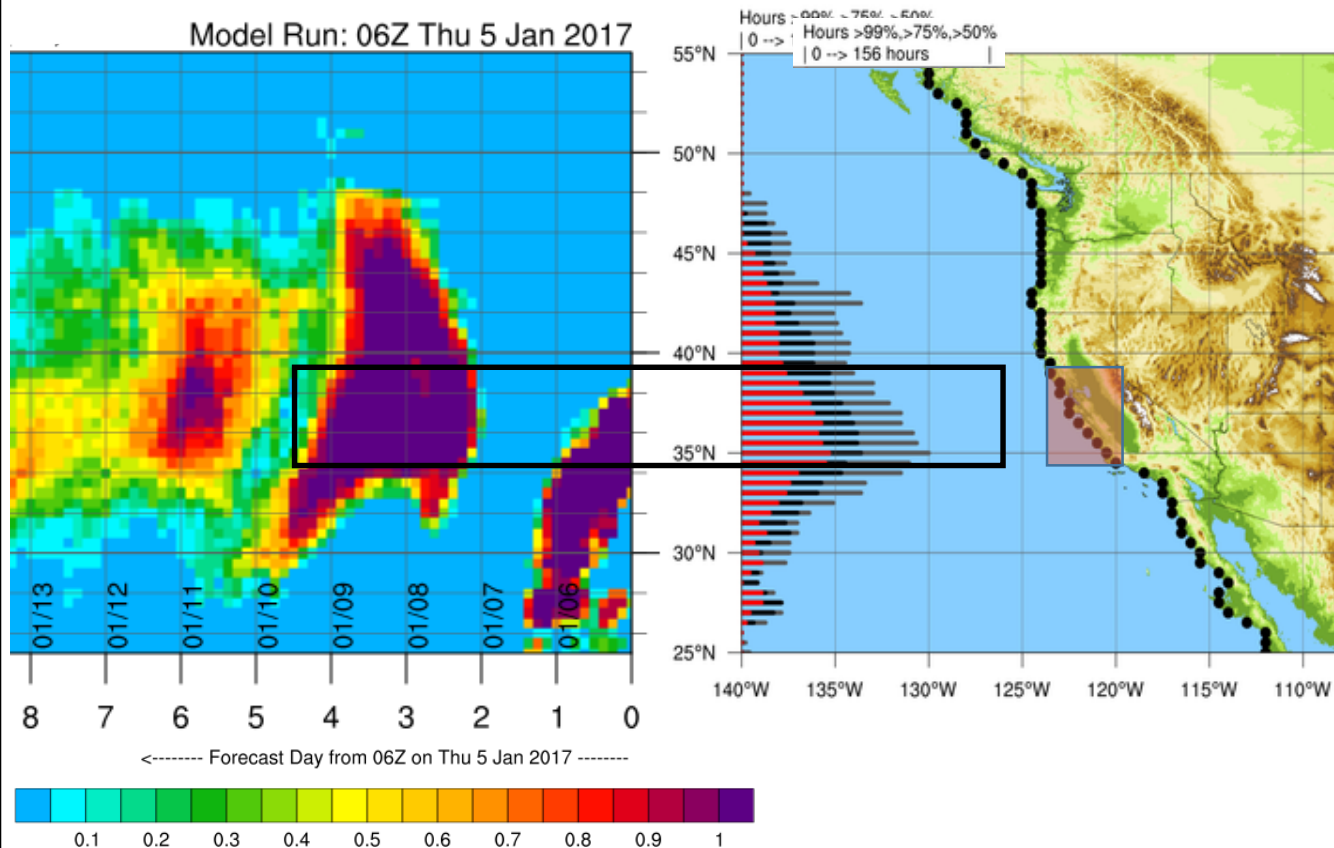
AR Update: 5 January 2017

For California DWR's
AR Program

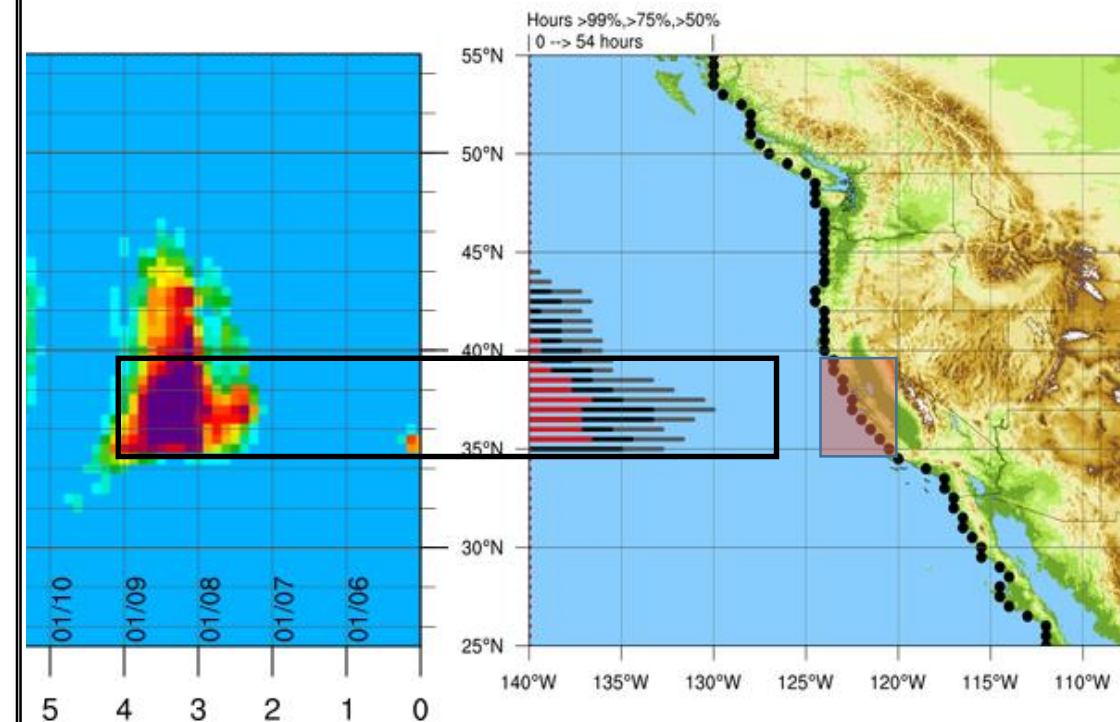


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Odds of at least a **WEAK** AR making landfall



Odds of a **MODERATE-STRENGTH** AR making landfall



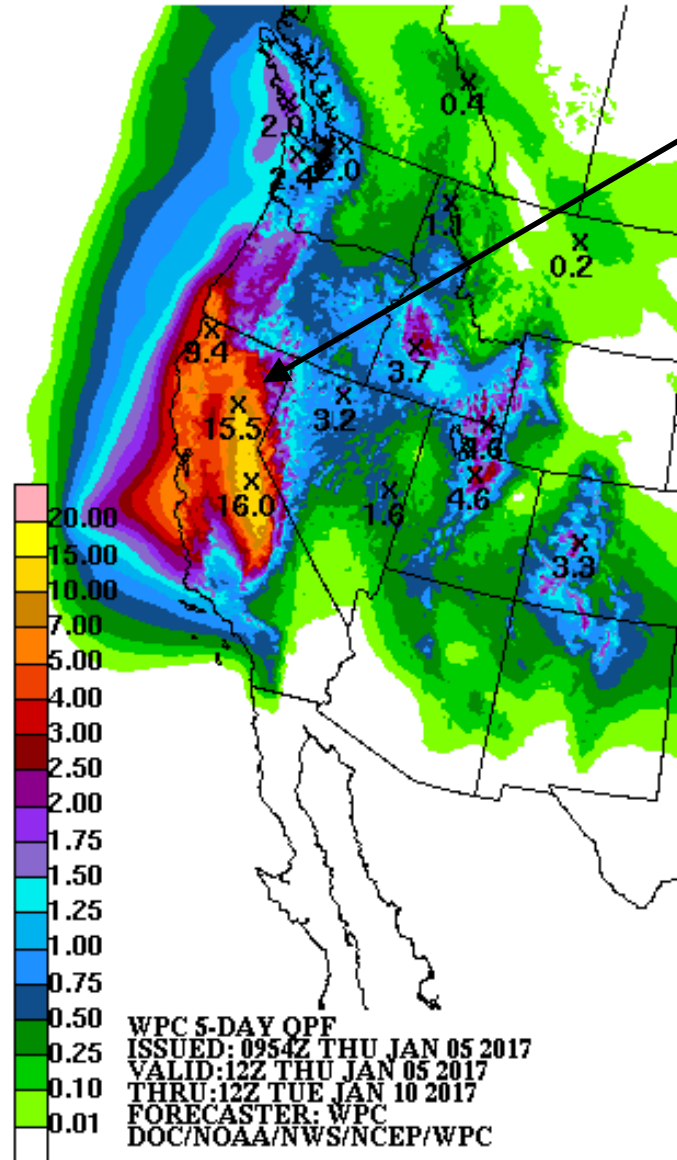
- There is high confidence that at least weak AR conditions ($250 \text{ kg m}^{-1} \text{ s}^{-1}$) will occur for over 48 hours in Central California
- The chances of moderate strength ($\text{IVT} > 500 \text{ kg m}^{-1} \text{ s}^{-1}$) conditions over central CA continue to be high and could last ~24-hrs
- Models are suggesting that there could be another AR that makes landfall in the extended forecast (5–7 days)

AR Update: 5 January 2017



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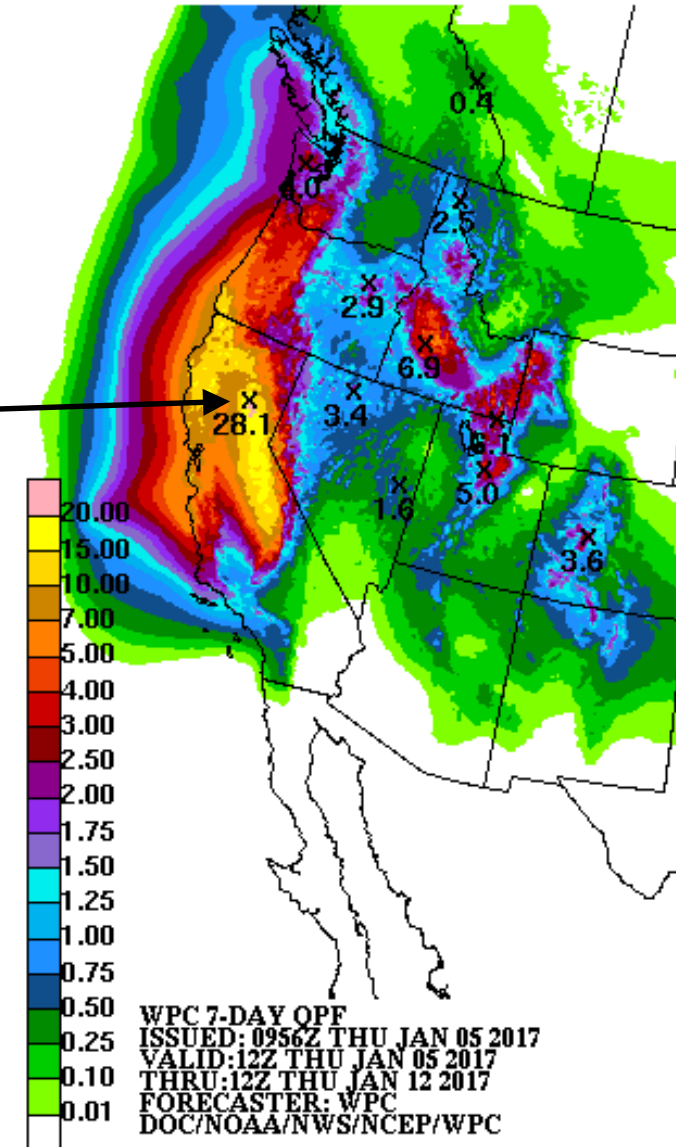
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5-day precipitation forecasts range from ~10 inches at lower elevations to 16 inches over the high elevations of the Sierra Nevada Mts.

7-day precipitation forecasts, which include the precipitation from an AR in the extended forecast, are predicting as much as 28.1 inches in the Sierras

For Official NOAA-NWS Precipitation
Forecasts see
<http://www.wpc.ncep.noaa.gov/qpf/qpf2.shtml>



AR Outlook: 5 January 2017

For California DWR's AR Program

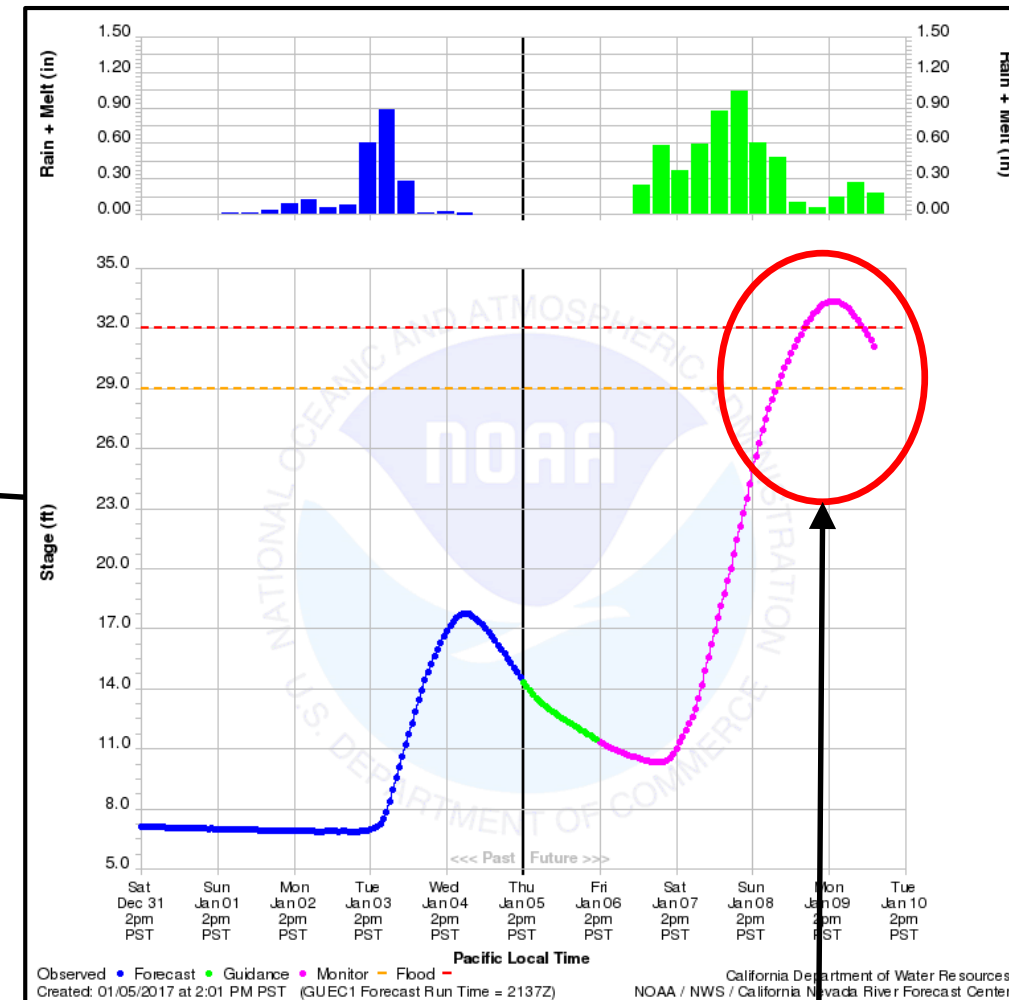
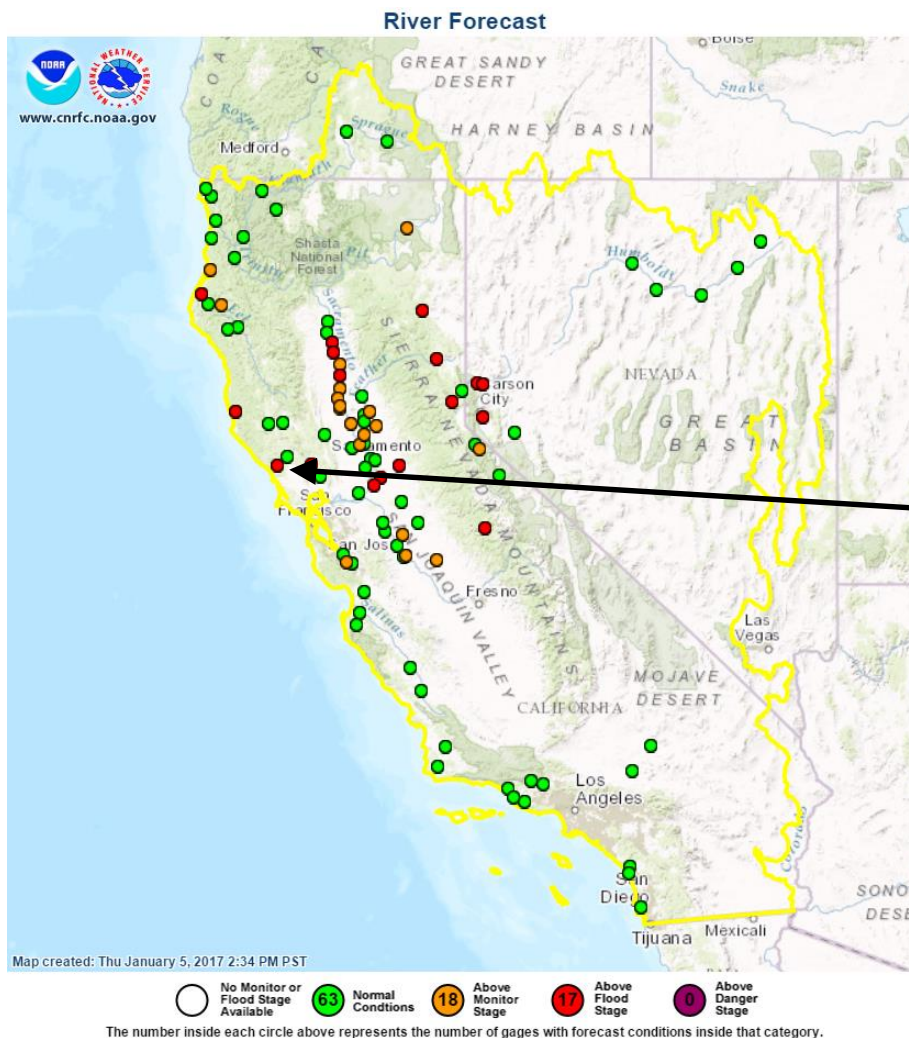


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There are currently
17 river gauges
forecast to rise
above flood stage,
up 9 since yesterday

For official NOAA-NWS
CNRFC Streamflow
Forecasts see
http://cnrfc.noaa.gov/rfc_guidance.php



The Russian River at Guerneville is now forecast to rise to 33.3 feet, which is ~1 ft. above flood stage

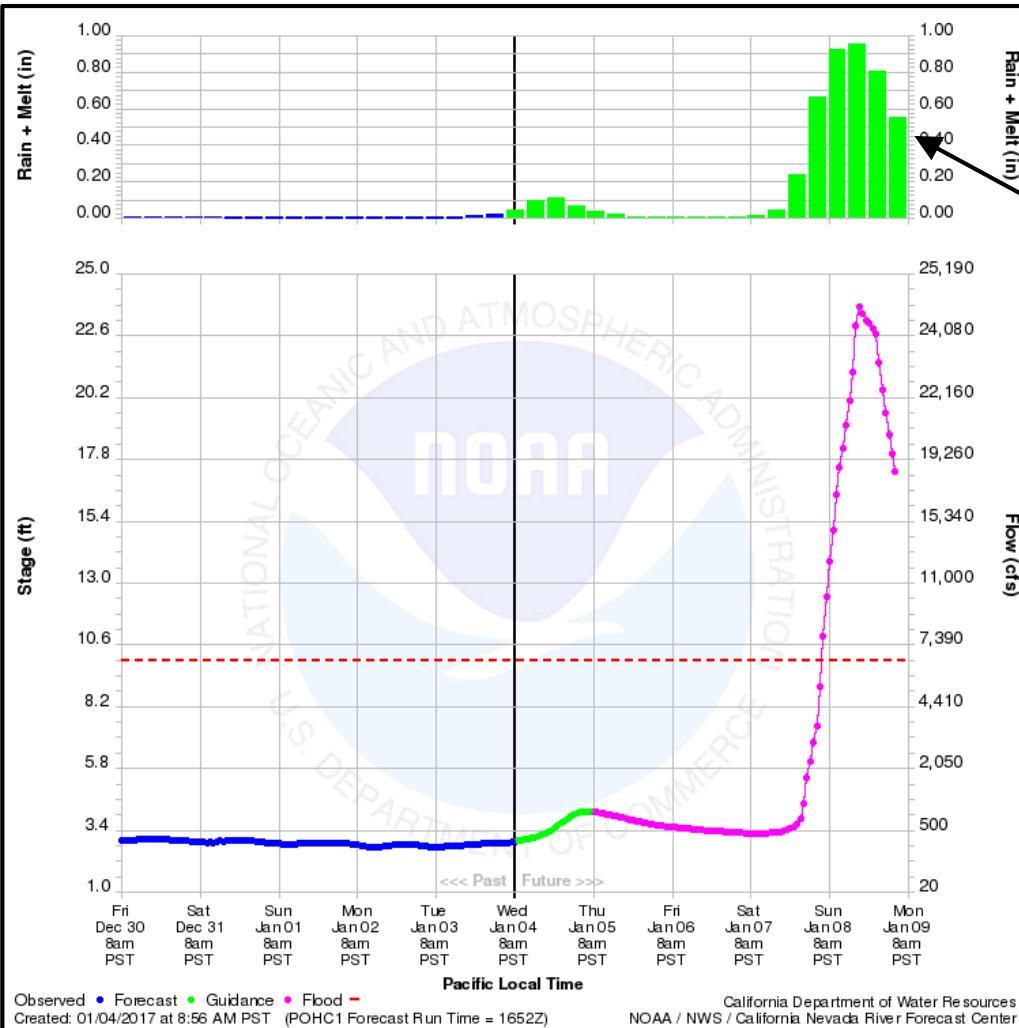
Moderate flooding is a possible when stage height rises above 33 ft. at this gauge

AR Update: 5 January 2017

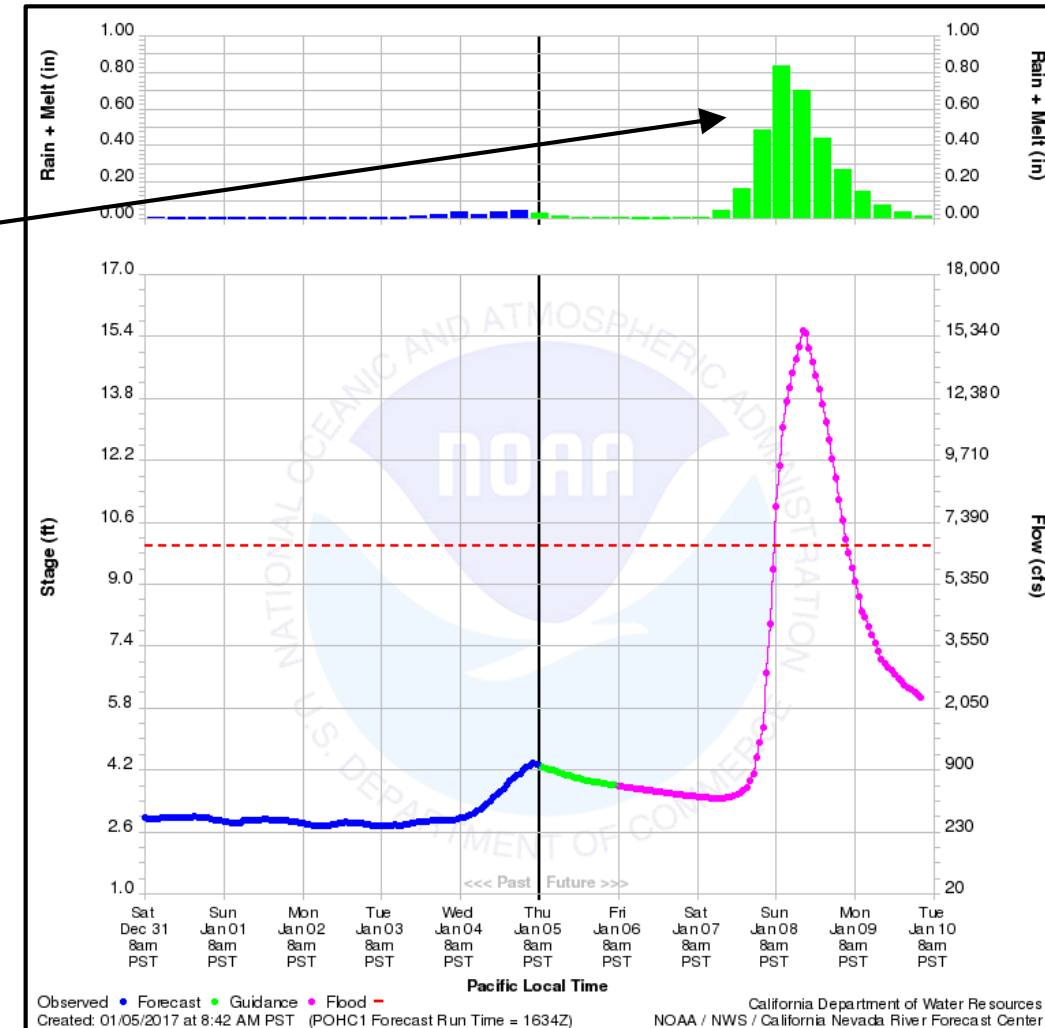
For California DWR's AR Program

The forecast max gauge height for the Merced River at Pohono Bridge in Yosemite has decreased from 23.7' to 15.5' since yesterday

23.7' is equivalent to a flood that occurred in January 1997 that caused \$178 Million of damage to Yosemite Valley



Every 6-hr
precipitation
forecast during
12Z 7-8 Jan
decreased an
average of ~0.2"



Issued: 2 PM 4 Jan 2017

Issued: 8 AM 5 Jan 2017