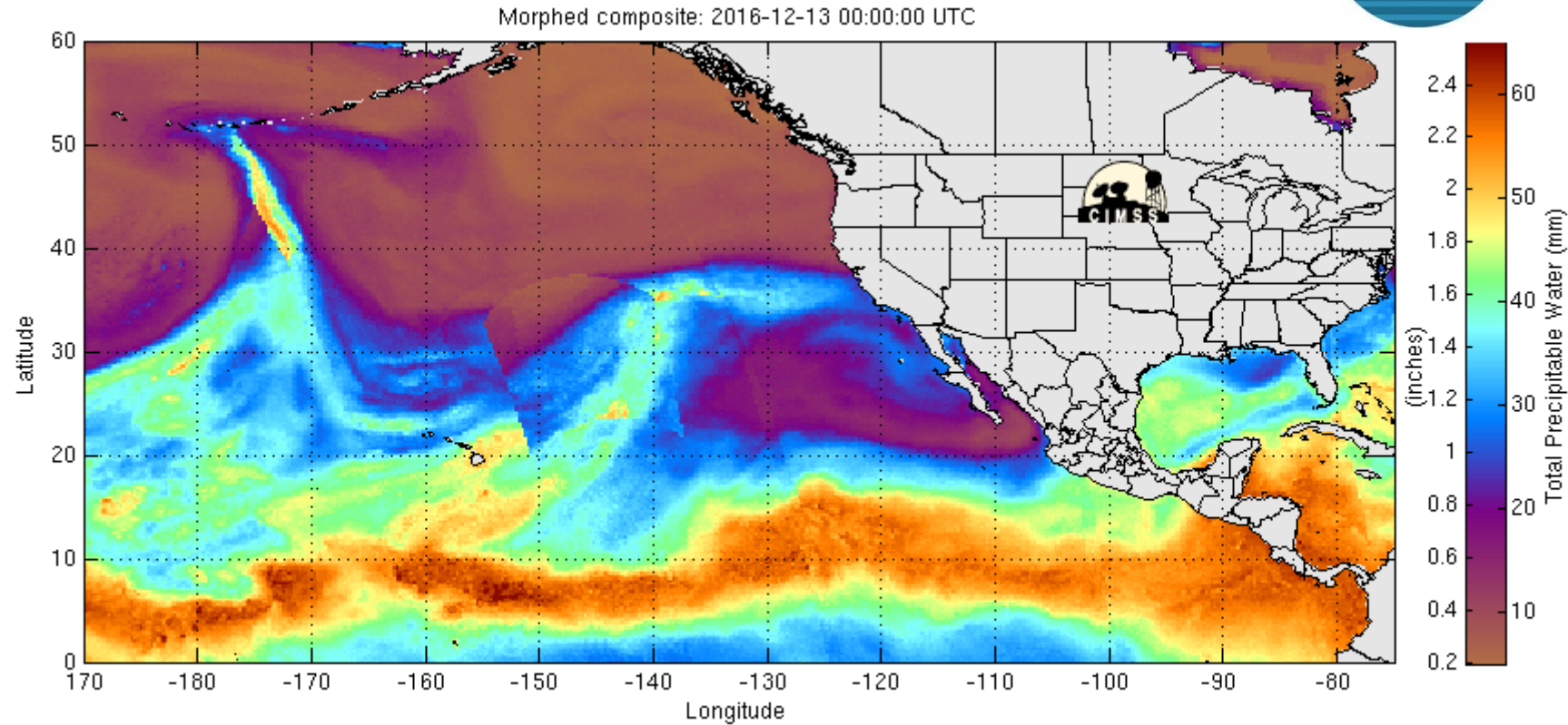


CW3E Atmospheric River Update

For California DWR's AR
Program



Center for Western Weather
and Water Extremes
SCRIPPS INSTITUTION OF OCEANOGRAPHY
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Update on AR Impacting California

- AR conditions and precipitation have ended across the U.S. West Coast
- 72-h precipitation accumulations range from 3-10.5 inches in northern California and 1–6 inches in southern California
- Several rivers have seen a rise in gage height and a few have risen above flood stage
- The Northern Sierra 8-station Index in northern California experienced a considerable contribution towards the average total water year precipitation over the past several days

Summary by C. Hecht & F.M. Ralph 1 PM PT Fri 16 Dec. 2016

AR Update: 16 December 2016



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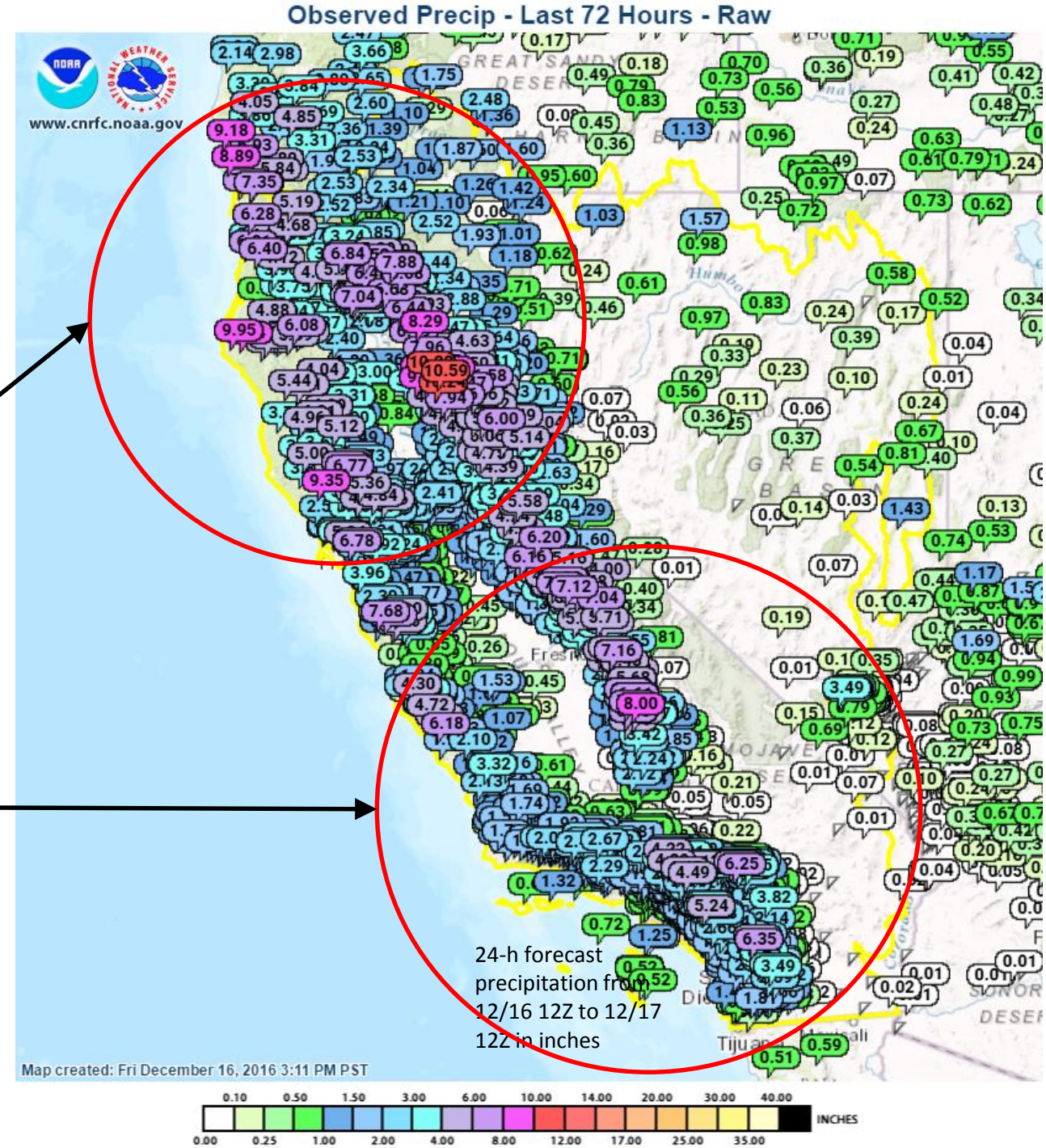
For California DWR's AR
Program

Most Locations in northern CA have received 3 to 10.5
inches over the past 72-hours

72-h precipitation accumulations of 8–12 inches classify
this event as an R-Cat 1 event

Most locations in southern California received 1 – 6
inches over the last 48-h

For Official NOAA-CNRFc Precipitation Forecasts and Observations see
<http://www.cnrfc.noaa.gov/ol.php?type=QPF>



AR Update: 16 December 2016

For California DWR's AR Program

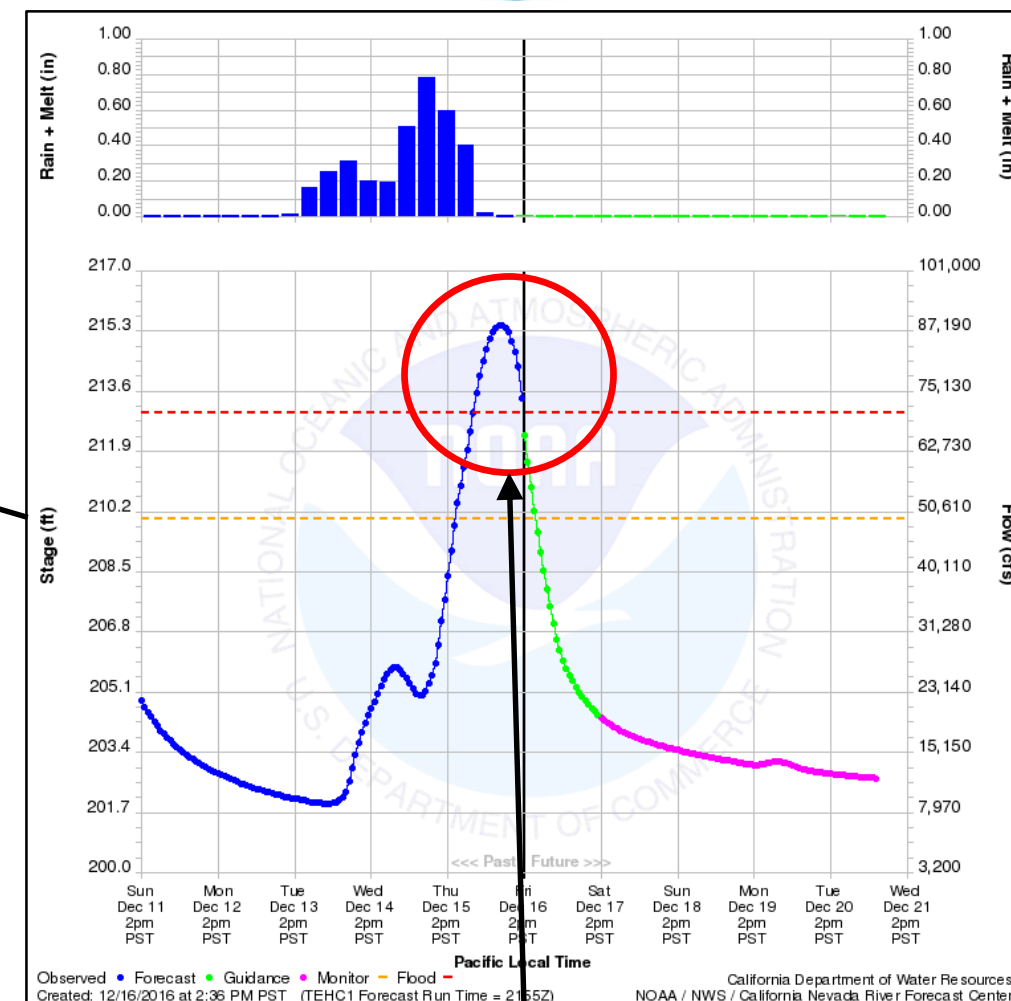
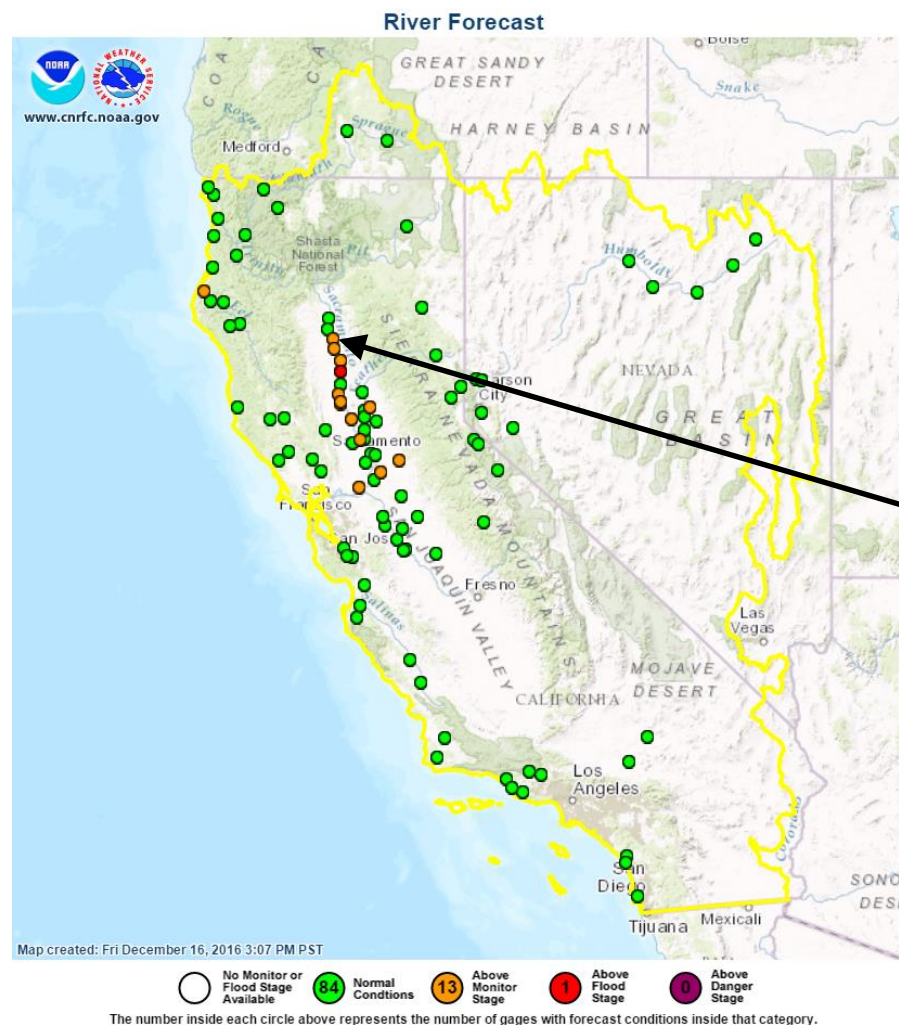


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There are currently 13
river gages above monitor
stage and one above flood
stage

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



The NWS has issued a flood warning for the Sacramento River. For more information visit <http://forecast.weather.gov/wwamap/wwatxtget.php?cwa=sto&wwa=flood%20warning>

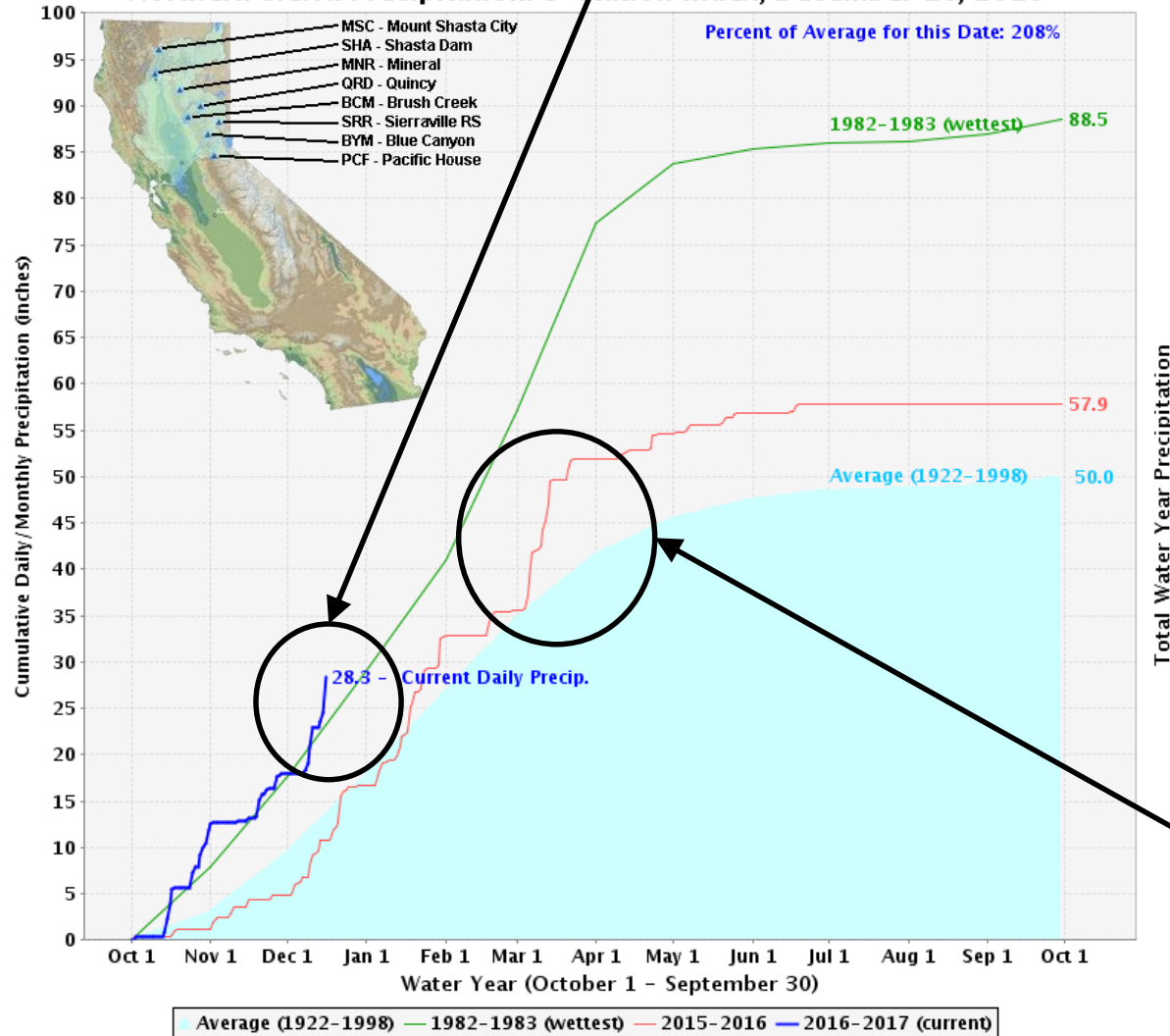
The Sacramento River at Tehama Bridge is currently at 213.4 ft., .4 ft above flood stage, but is expected to drop below flood stage in the next several hours

Summary by C. Hecht & F.M. Ralph 4 PM PT Fri 16 Dec. 2016

AR Update: 16 December 2016

The precipitation over the Northern Sierra 8-station index has brought the annual total to 28.3 inches, which is 208% of the average precipitation for this date

Northern Sierra Precipitation: 8-Station Index, December 16, 2016



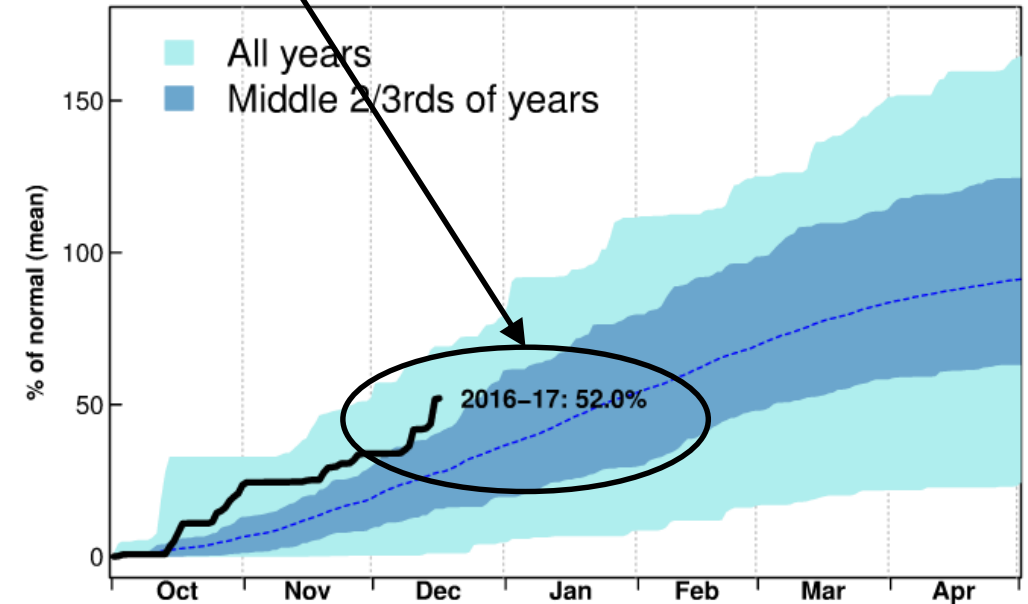
For California DWR's AR Program



28.3 inches is ~52% of the average total water year precipitation which is up ~10% since 13 December 2016

An AR last week saw a 3-day increase of ~8% from 7-10 Dec. bringing the total change over the past 10 days to ~18%

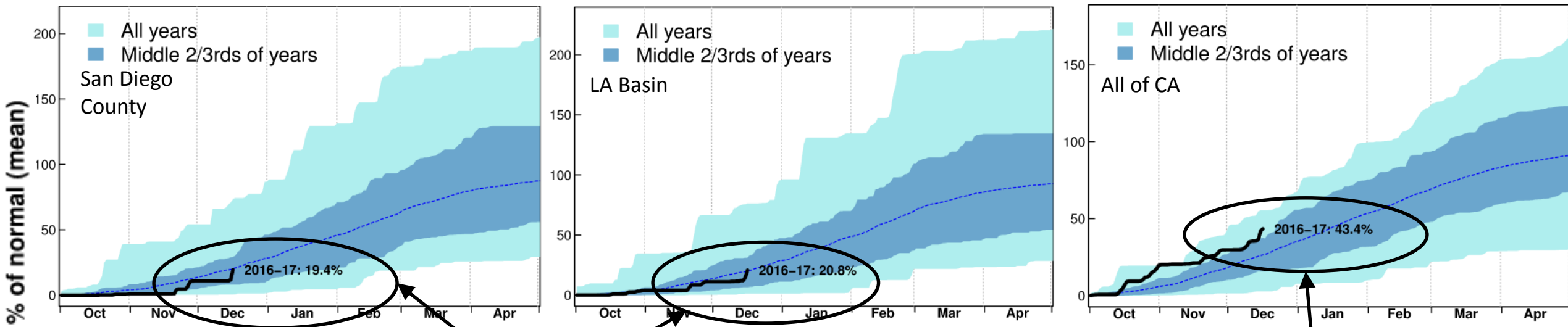
8_sta_index precip for all years, data through 2016/12/16



For comparison, March 2016 saw 3 ARs produce ~25% of the average total water year precipitation over a 10 day period



WY to Date Precipitation Compared to All Water Years



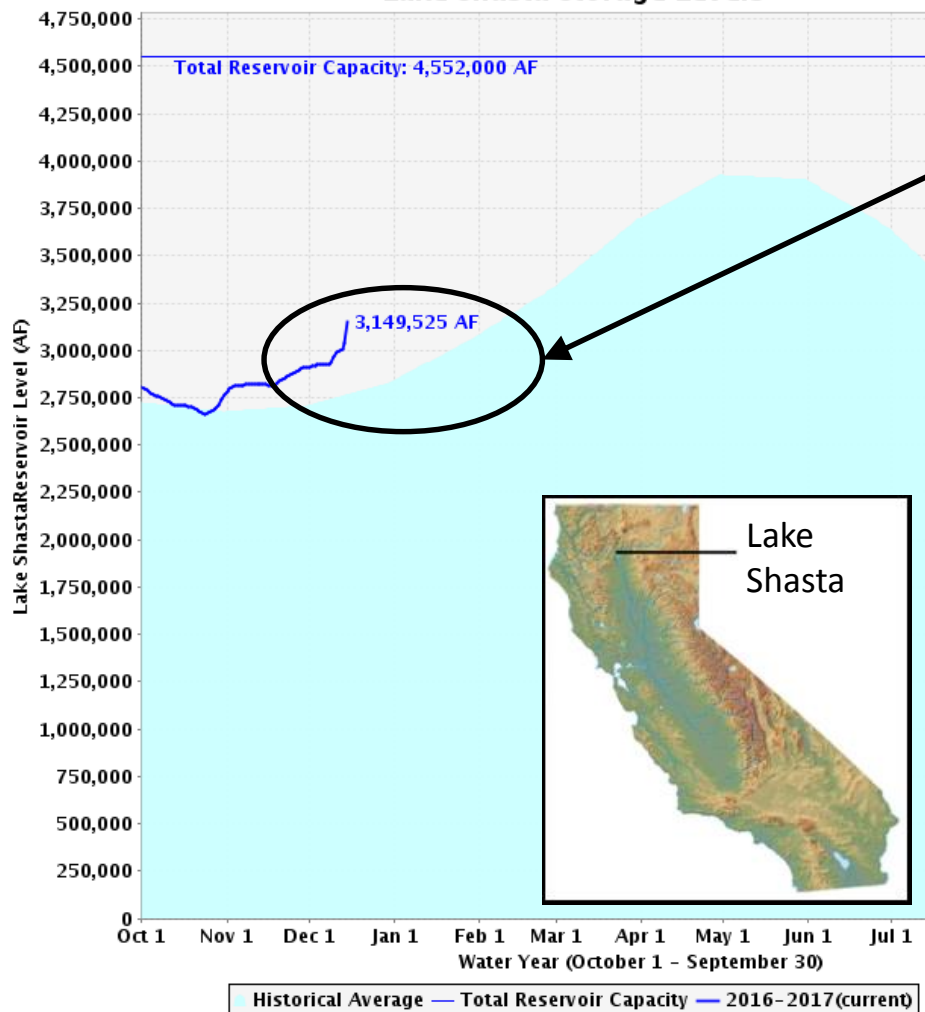
The recent precipitation in San Diego County and the Los Angeles Basin has increased the precipitation to date ~9% over the last 2 days to ~20% of the average total WY precipitation, which is approximately average for this date

All of California is now at 43.4% of the average total water year precipitation, an increase of ~8% over the past 3 days

43.4% is in the upper 15% of all water years for this date



Lake Shasta Storage Levels



The water level at Lake Shasta in northern CA has risen ~200,000 AF over the past week to ~3,150,000 AF, which is above average for this date

Lake Oroville in the northern Central Valley has risen ~200,000 AF, closer to the average

Lake Oroville Storage Levels

