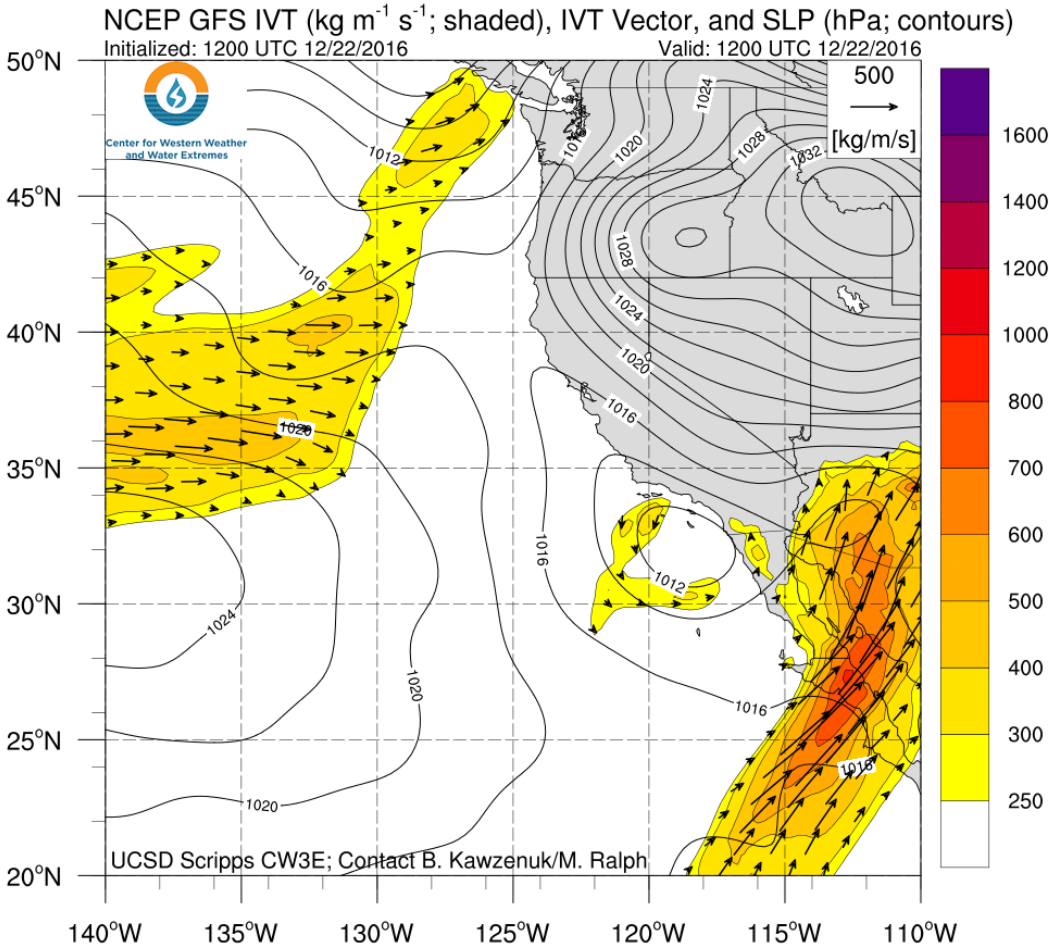


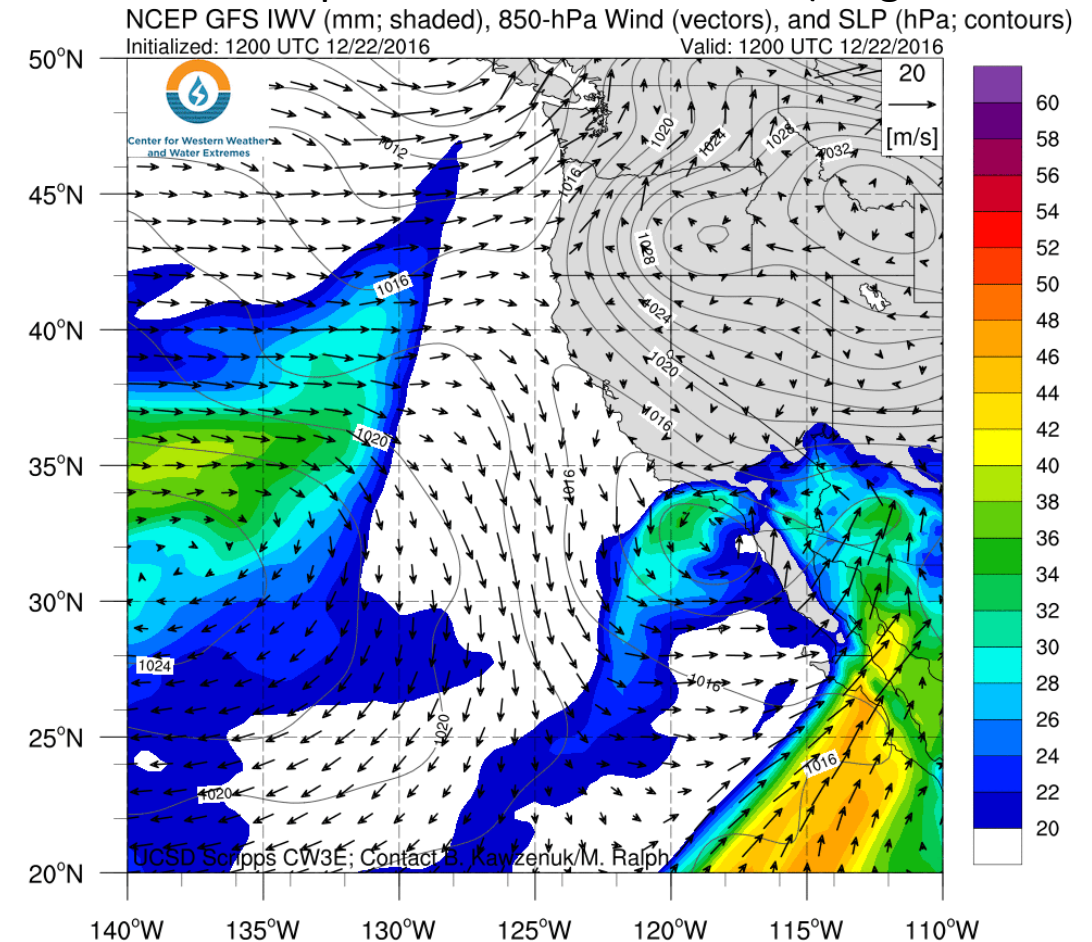
CW3E Event Outlook

For California DWR's AR
Program



System to Bring Precipitation to CA

- A system is expected to bring precipitation accumulations of 1–3 inches to most of California
- While this event is forecast to have characteristics of an AR (IVT >250 kg/m/s), it does not have the spatial structure of an AR (long and narrow)



- Precipitation accumulations of 1–2 inches from a separate system have primed conditions in southern CA and may combine with precipitation from the expected event to cause the San Diego River to briefly rise above monitor stage
- Freezing levels are forecast to be 4,000–5,000 over southern CA, which could lead to freezing precipitation over higher elevations

Summary by C. Hecht 1 PM PT Thurs. 22 Dec. 2016

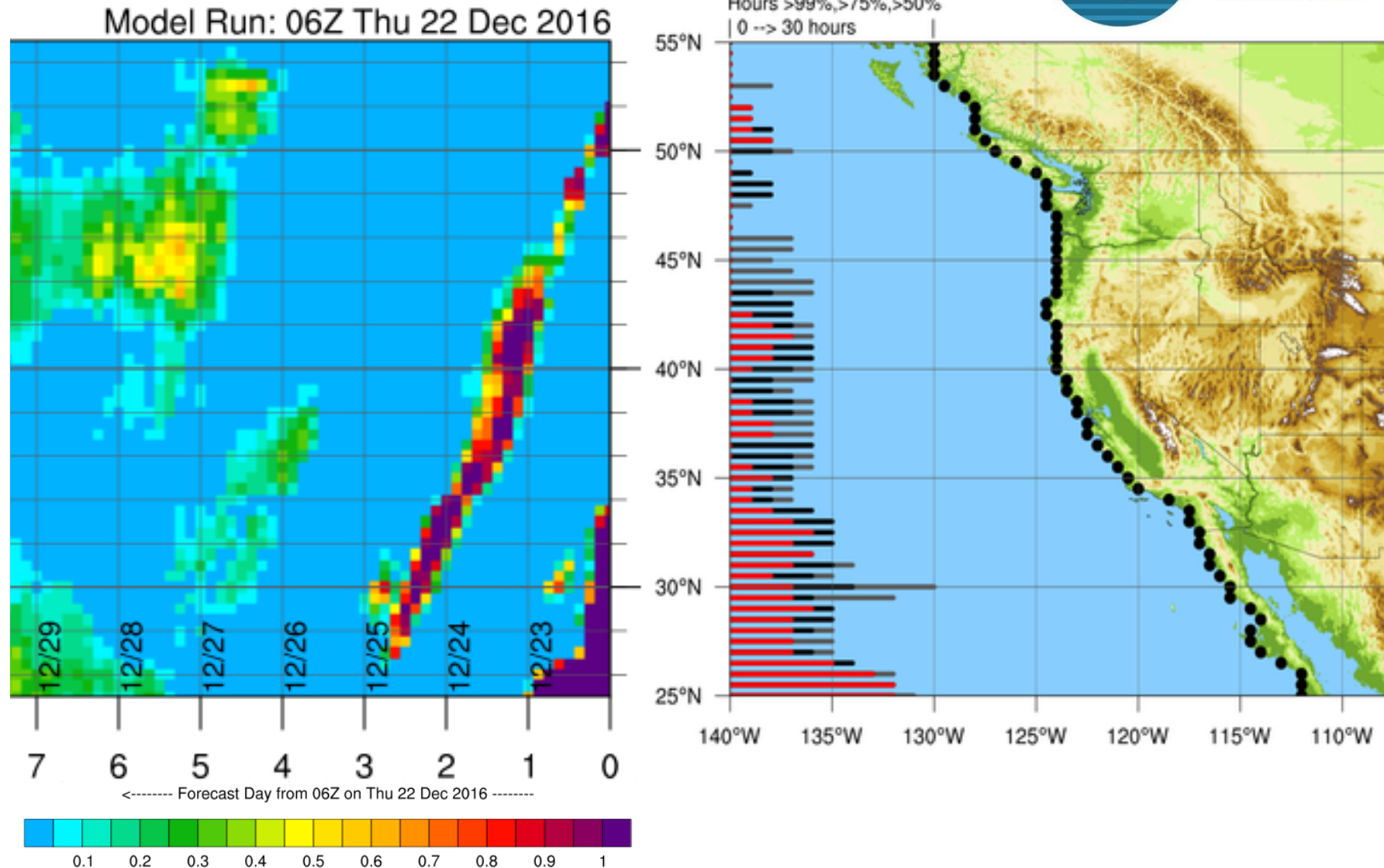
AR Update: 23–25 December 2016

For California DWR's
AR Program



Center for Western Weather
and Water Extremes
SCRIPPS INSTITUTION OF OCEANOGRAPHY
AT UC SAN DIEGO

Odds of at least **WEAK**
AR conditions based
on IVT



- AR conditions ($\text{IVT} > 250 \text{ kg m}^{-1} \text{ s}^{-1}$) are expected to last for ~12-hrs along the entire coast of CA from 23 to 25 Dec.

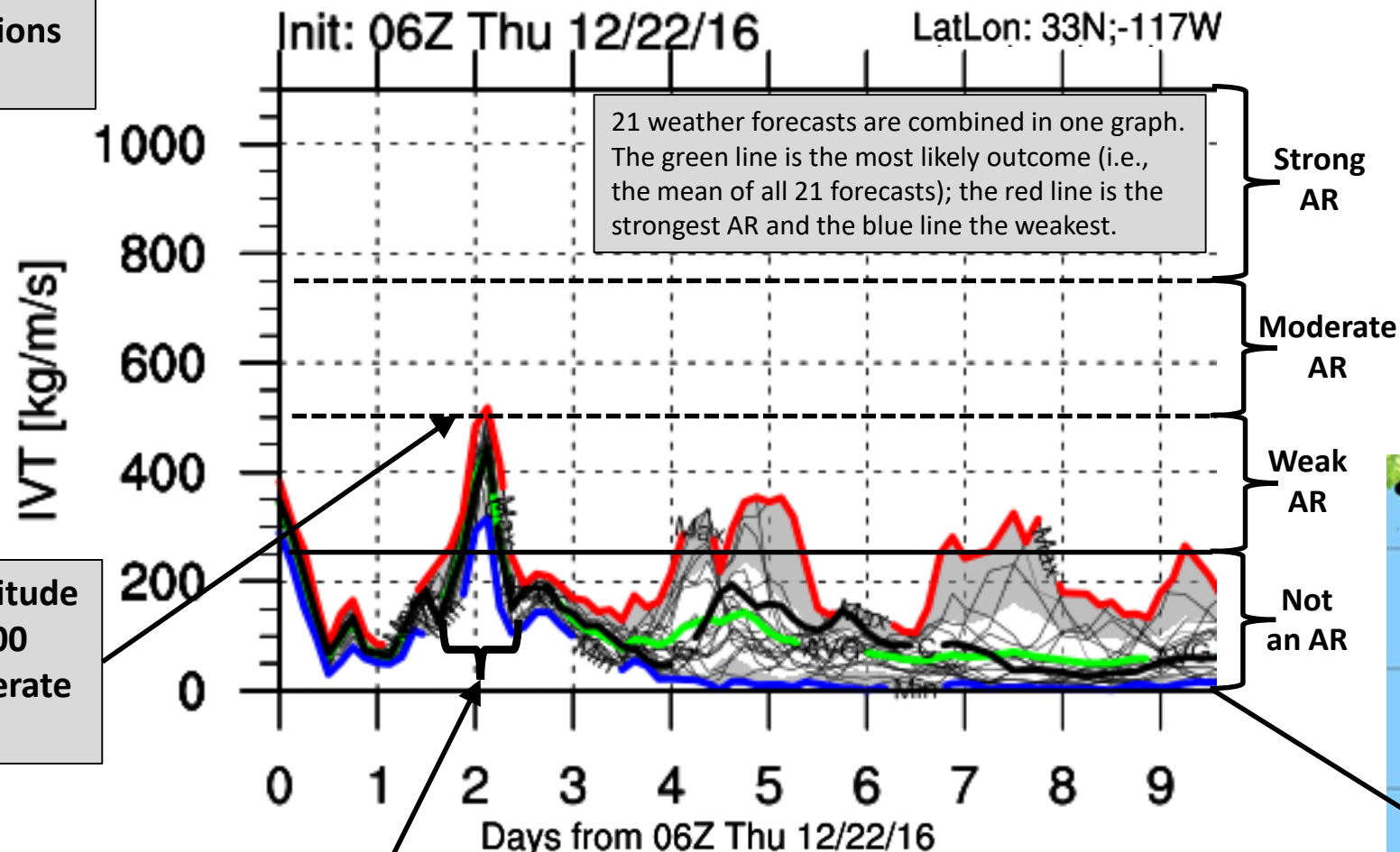
AR Update: 23–25 December 2016

For California DWR's AR Program



Center for Western Weather
and Water Extremes
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AT UC SAN DIEGO

Forecasts are in agreement
on the duration and
magnitude of AR conditions
at Oceanside, CA



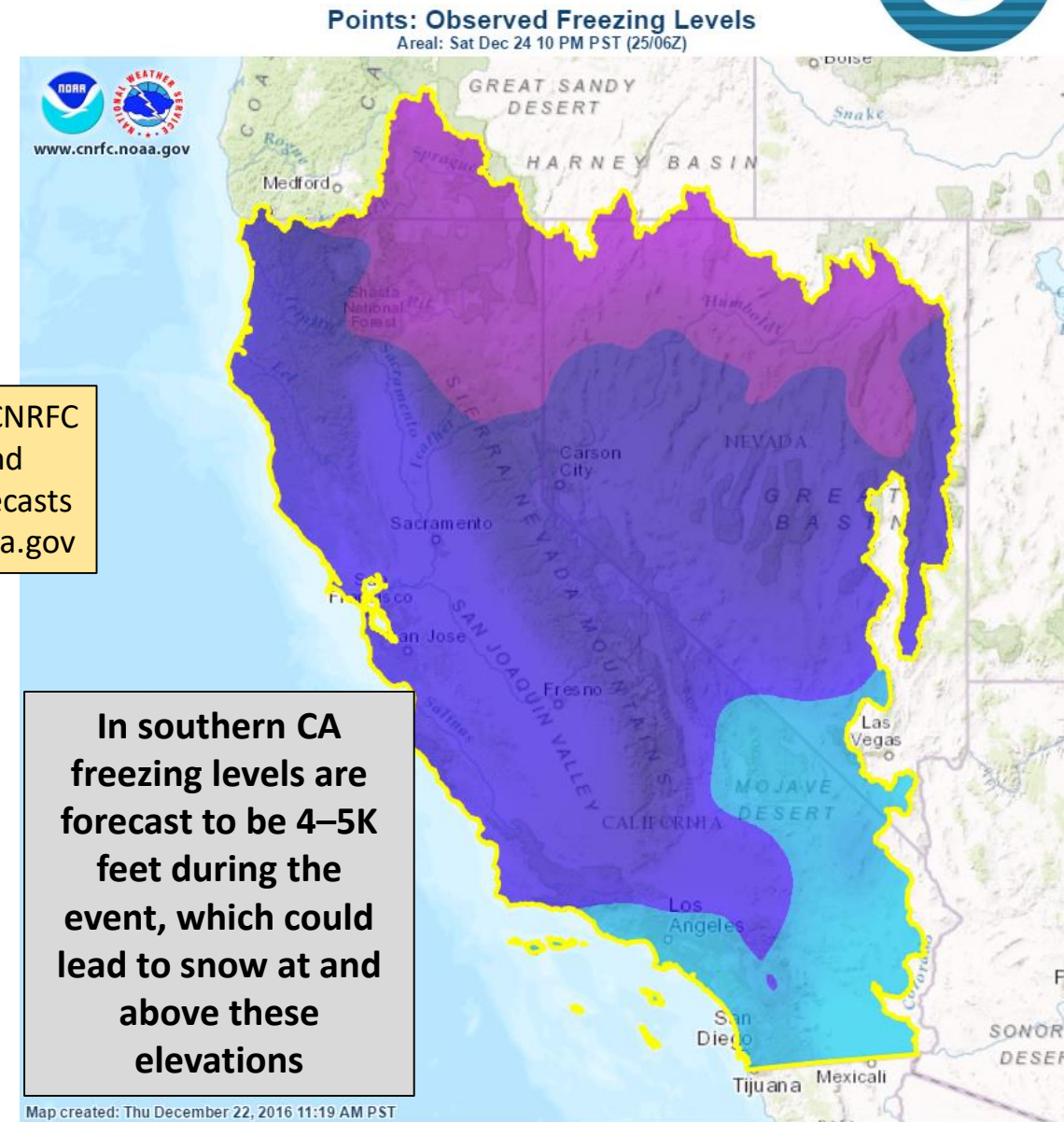
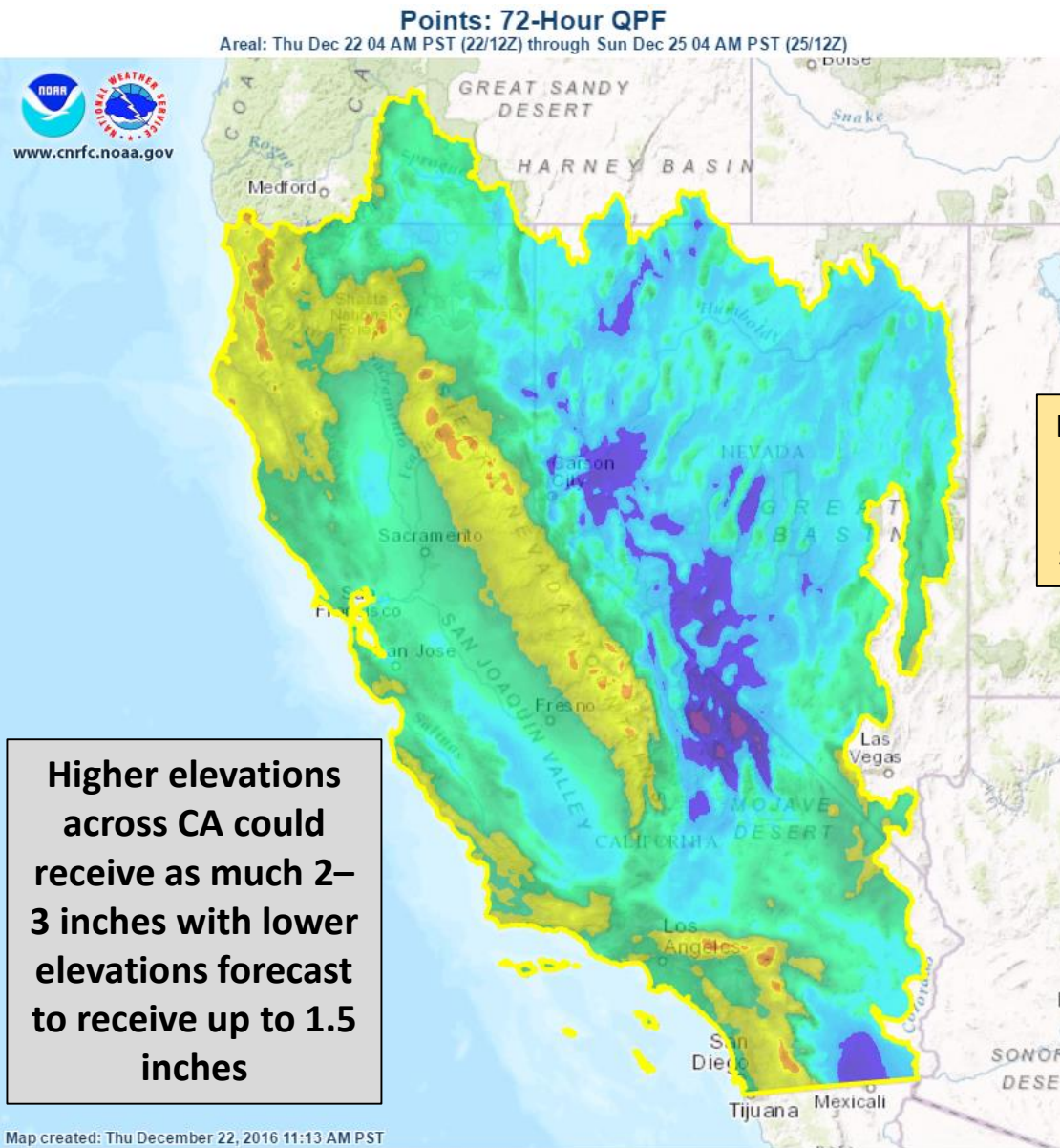
The maximum IVT magnitude
could be as high as 500
kg/m/s, which is a moderate
AR

AR conditions could last from 12–24-hrs



AR Update: 23–25 December 2016

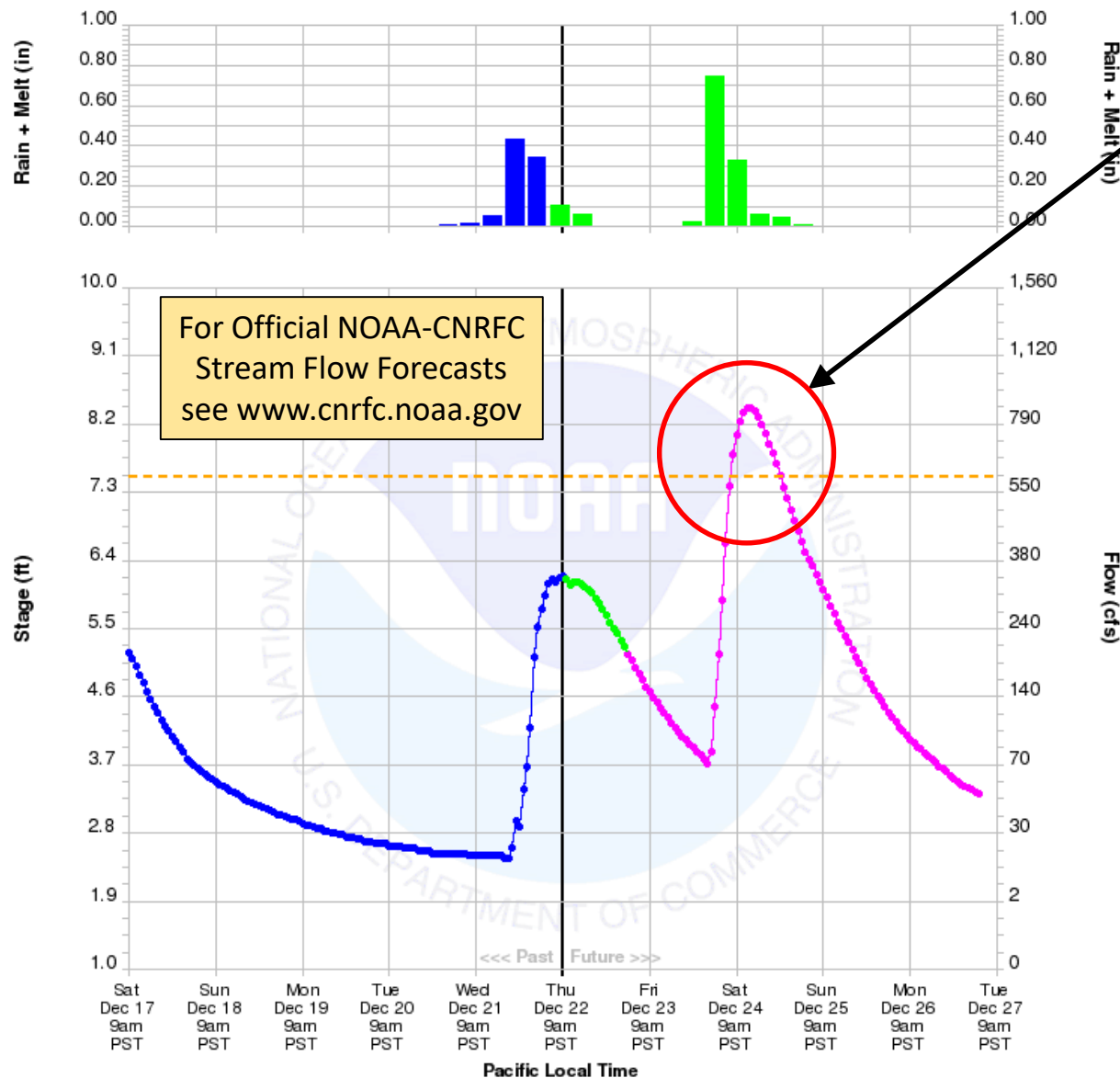
For California DWR's AR Program



For Official NOAA-CNRF
Precipitation and
Freezing Level Forecasts
see www.cnrfc.noaa.gov

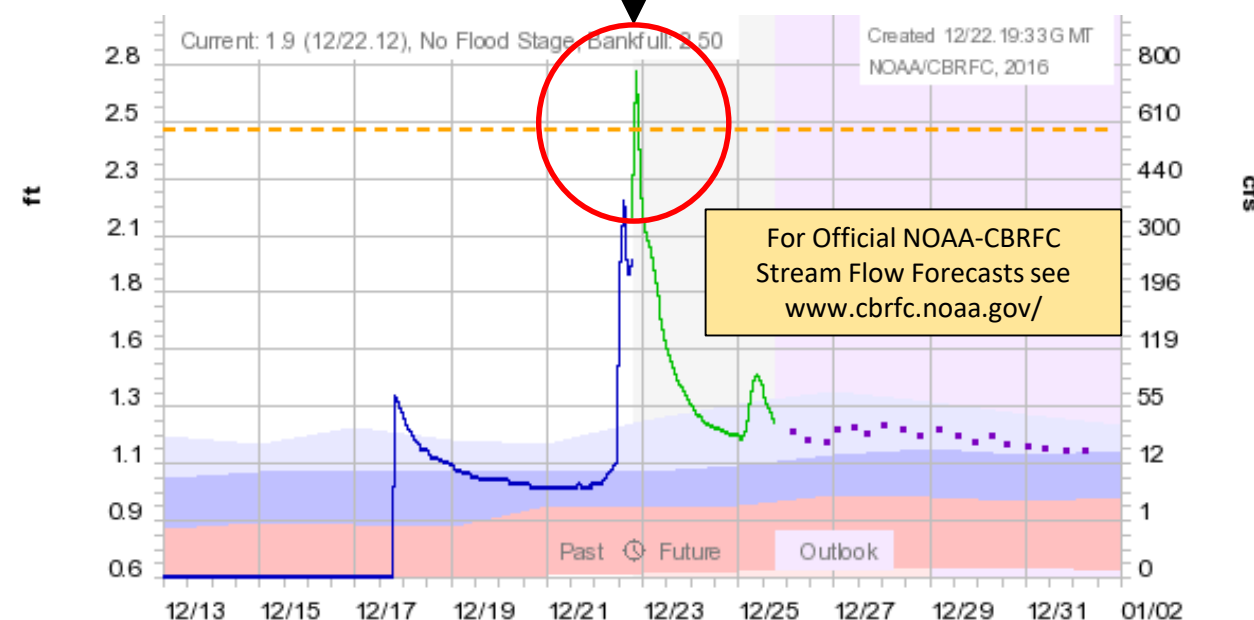
AR Update: 23–25 December 2016

For California DWR's AR Program



Precipitation produced by a separate system last night and today combined with the forecast precipitation on Saturday have caused stream flow forecasts of the San Diego River at Fashion Valley to rise above monitor stage on Saturday

This system from last night and today also brought precipitation to desert locations in eastern CA and AZ, causing the forecast stage height of the Sabino Creek near Tucson to rise above flood stage (Orange Line)



AR Update: 23–25 December 2016

For California DWR's AR Program

Summary

- An event is expected to impact CA from 23 to 25 December 2016 bringing precipitation accumulations of 1–3 inches.
- While AR conditions are met in terms of IVT magnitude at points along the West Coast, it does not have the spatial structure of an AR (long and narrow).
- Precipitation from last night and today brought by a separate system have primed surface conditions causing the San Diego River's stream flow forecast to rise above monitor stage.
- The event from last night and today also brought precipitation to desert locations in eastern CA and AZ (pictured below)
 - Palm Springs Airport in the Sonoran Desert received ~1 inch of precipitation over the previous 24 hours, accounting for ~25% of the water year total for this location
 - Sabino Creek near Tucson, AZ rose ~1 foot and is expected to continue to rise above flood stage
- While the event from last night and today it also did not strictly meet the AR criteria, it did have a tropical tap with large water vapor contents and is a subject of research to better understand such events

