# **CW3E Atmospheric River Update – Outlook**

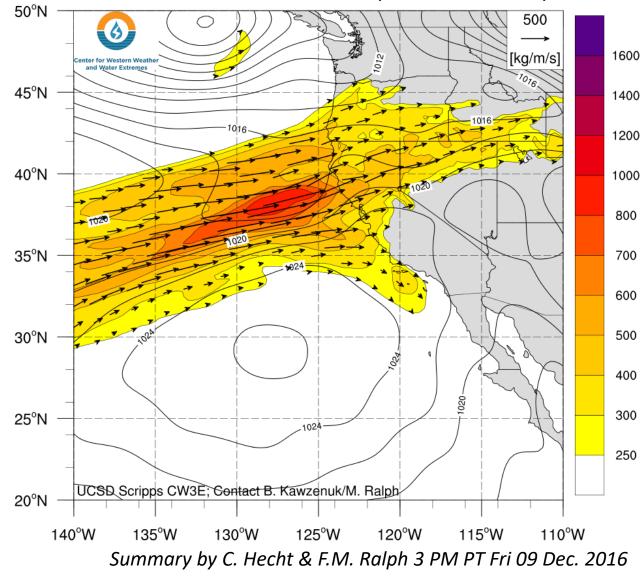


For California DWR's AR Program

#### **Landfalling AR to impact California**

- A moderate AR is expected to make landfall in north/central California tonight
- The AR propagates southward over the weekend bringing AR conditions to portions of southern California
- Current precipitation forecast suggest higher precipitation amounts of up to 150 mm over the higher elevations of the Sierra Nevada Mts., while the Coastal Mts. won't receive as much
- Above normal soil moisture conditions in northwestern CA suggest that conditions are primed for more of the precipitation to turn into runoff rather than be lost to moistening the soil
- Extended forecasts suggest the landfall of another AR over southern California on the 13<sup>th</sup>, but forecast confidence is currently low

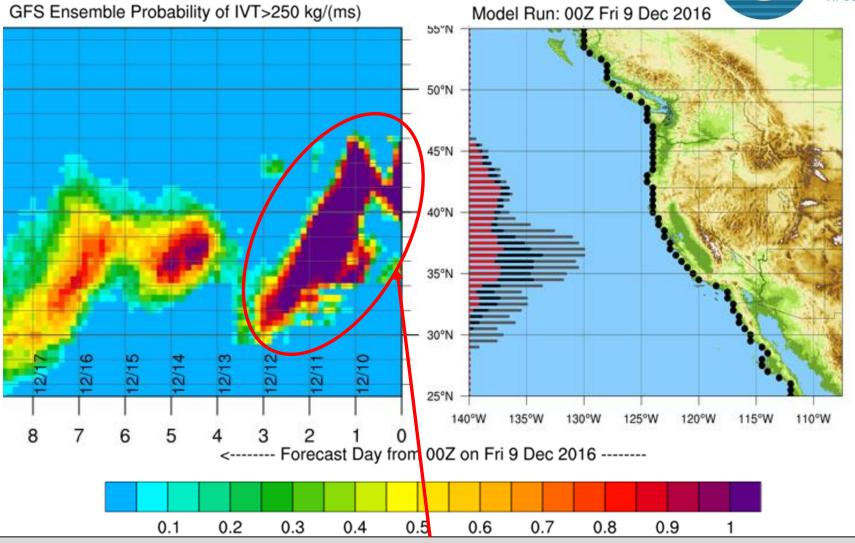






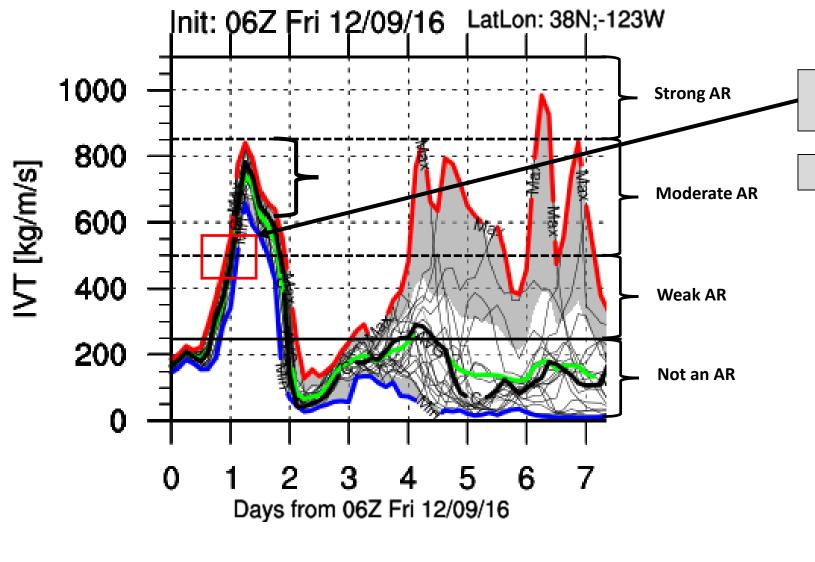
For California DWR's AR Program





The probability of IVT >250 kg m<sup>-1</sup> s<sup>-1</sup> (atleast minimal AR conditions) is high (~1) along the entire California Coast indicating high forecast confidence and the southward movement of the AR over time





Onset of moderate-strength AR conditions Friday night and lasts about 24-hours

AR's Max strength is uncertain by +/-10%

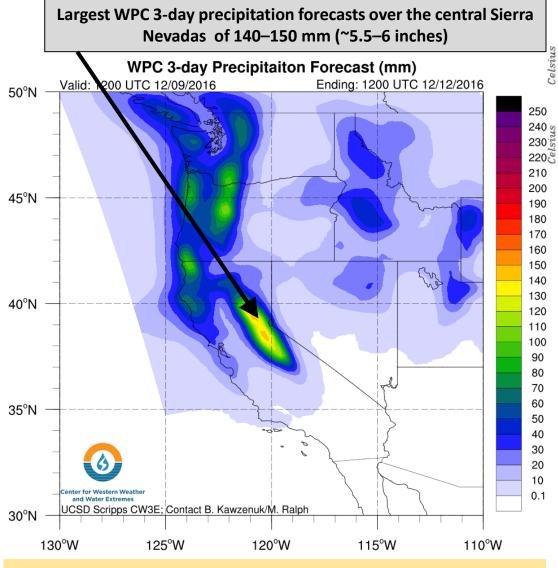


Summary by C. Hecht & F.M. Ralph 3 PM PT Fri 09 Dec. 2016

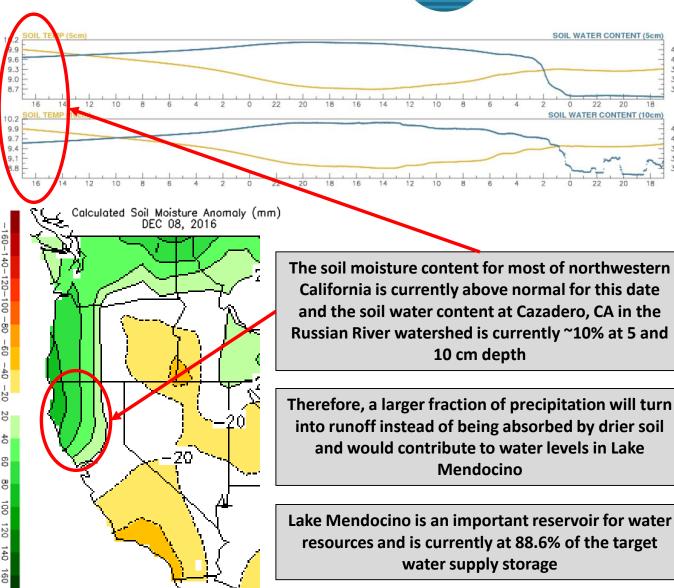
## AR Outlook: 9-13 December 2016

For California DWR's AR Program





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

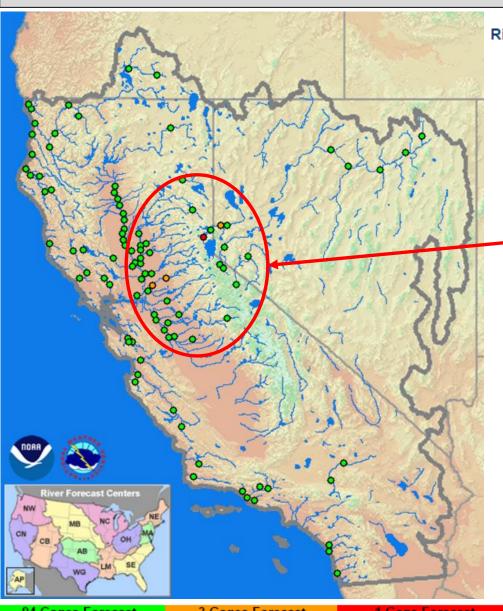


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#### AR Outlook: 9–13 December 2016

#### For California DWR's AR Program





River Guidance Forecast Status (Approximately 5 Days)

- No Data or Critical Stages
- Normal Conditions
- Above Monitor Stage
- Above Flood Stage
- Above Danger Stage
- River Gage Location

The River Forecast Center (RFC) is forecasting for three Gages to go above monitor stage and one gage to go above flood stage, all four of which are in or downstream of the region forecasted receiving the most precipitation in the Sierra Nevada Mts.

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

## **AR Outlook: Extended Forecast of Second AR**



