CW3E Atmospheric River Update

NWS Composite Radar Reflecitvity DBZ 1628 UTC 12/15/2016

AR conditions could last up to 24 more hours over northern CA resulting in as much as 1–3 more inches of precipitation

- Flood warnings have been issued by the NWS at locations in
 Oregon and northern California
- Visit weather.gov for point specific watches, advisories and warnings

For California DWR's AR Program



Center for Western Weather and Water Extremes

SCRIPPS INSTITUTION OF OCEANOGRAPHY AT UC SAN DIEGO

- Update on AR Impacting California
 - The AR has begun to move southward as precipitation continues to fall over northern California
 - 48-h precipitation accumulations range from 1–10 inches over portions



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- AR conditions (IVT >250 kg m⁻¹ s⁻¹) are expected to last up to 24 more hours in portions of northern California that have already received
 precipitation accumulations before the AR propagates southward over southern California
- The chances of moderate strength (IVT >500 kg m⁻¹ s⁻¹) conditions over northern and central CA have continued to increase with durations
 of ~6-h expected

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Summary by C. Hecht & F.M. Ralph 1 PM PT Thurs 15 Dec. 2016

For California DWR's AR Program



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8 00

12.00

17.00

25.00

An additional 1–3 inches of rain could fall over portions of northern California with the high elevations of the Sierra Nevada Mts. forecast to receive another 7 inches

By the end of the event, total precipitation accumulations could be as high as 12–13 inches in some locations

Portions of southern California are forecast to receive 72-h precipitation accumulations of 1– 3 inches

For Official NOAA-CNRFC Precipitation Forecasts see http://www.cnrfc.noaa.gov/ol.php?ty pe=QPF



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Stream flow forecasts are similar to prior day with 7 gages expected to reach above flood stage

17 river gages are expected to rise above monitor stage, which is 1 more than yesterday

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





The forecast stage height for the Sacramento River at Tehama Bridge is now at 213.4 feet, which is .4 feet above flood stage

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Out of the 3 gages on the Russian River, the gage at Hopland is expected to rise above flood stage while the gage at Guerneville is expected to rise above monitor stage

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





The forecast stage height for the Russian River at Hopland has begun to rise and is expected to reach 23.5 feet, 2.5 feet above flood stage