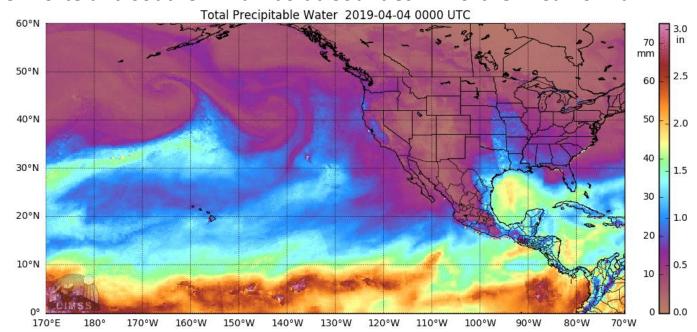
CW3E Post Event Summary: 6–9 April AR



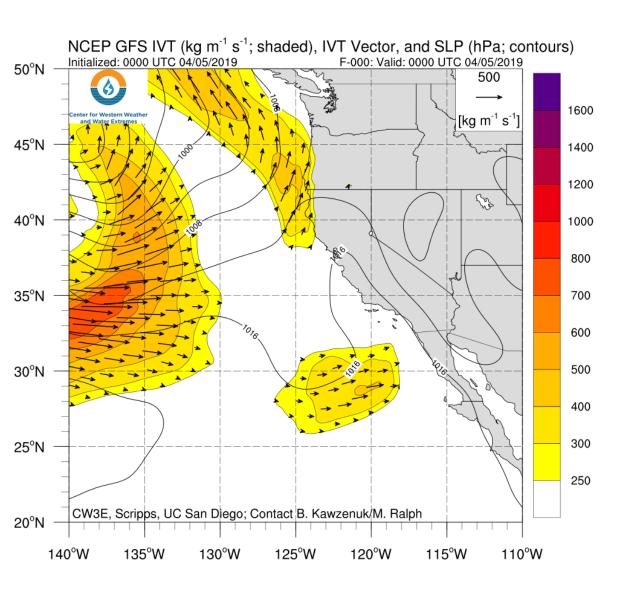
Summary of the Atmospheric River that impacted Oregon and Northern California between 6 and 9 April 2019

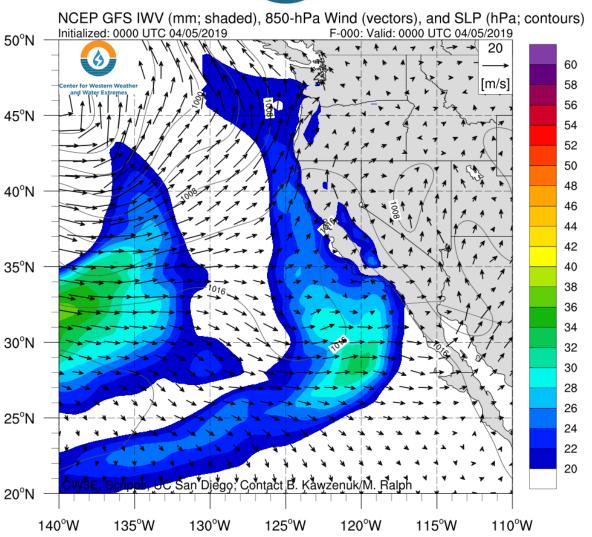
- A strong and long duration AR made landfall over Oregon and Northern California on 6–9 April 2019
- Numerous locations across Northern California and Southern Oregon received >5 inches of precipitation over 72 hours with multiple gauges recording >10 inches
- The maximum three day total was 365 mm, or 14.58 inches. The max including a couple of days earlier reached over 17 inches.
- The AR resulted in AR Category 4 conditions over Southern Oregon, a lightly populated region
- Ten river gauges in OR and WA exceeded flood stage, and many others reached action level or bankfull.
 - The landfall and limited southward propagation of the AR resulted in a large north-south gradient in precipitation accumulations between Del Norte and southern Humboldt Counties in Northern California



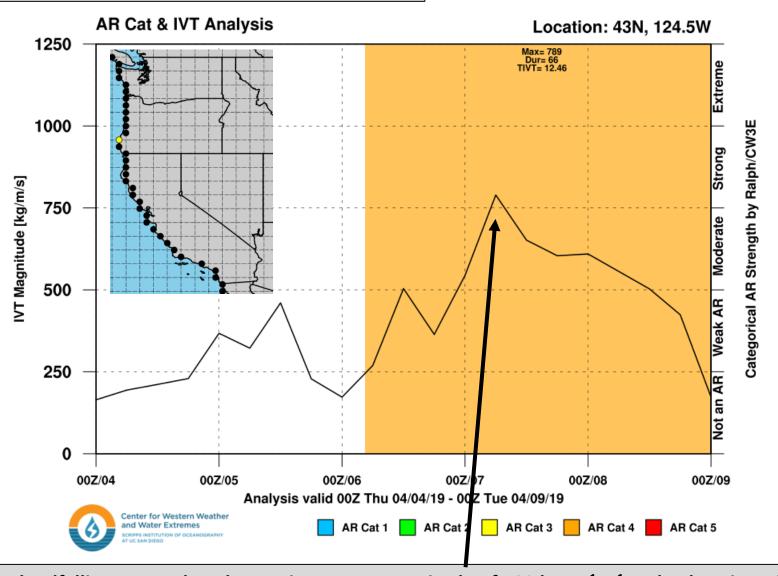
For California DWR's AR Program





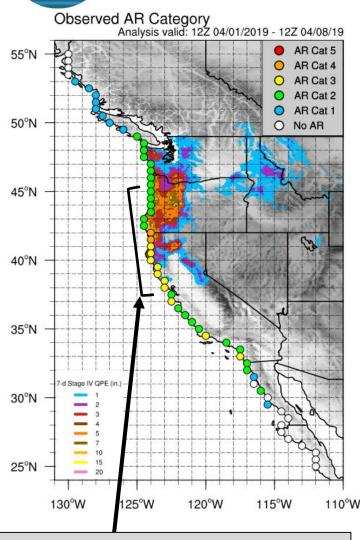


For California DWR's AR Program



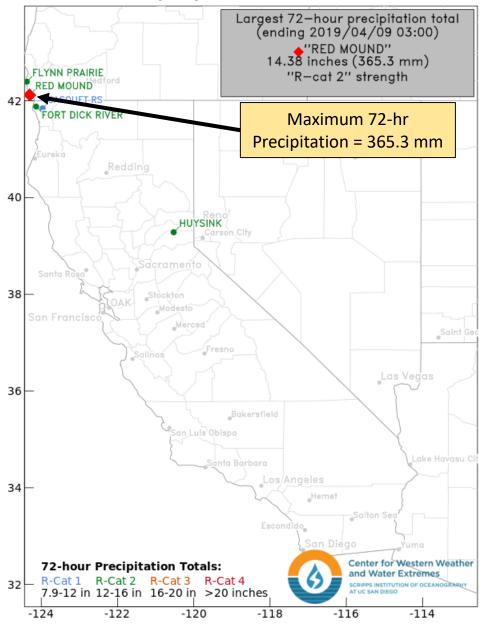
The landfalling AR produced a maximum IVT magnitude of 789 kg m⁻¹ s⁻¹ and a duration of AR conditions of 66 hours, which results in an AR Category 4 event based on the recently published AR Category Scale (Ralph et al. 2019)





Numerous other coastal locations across Oregon and Northern CA experienced AR Cat 1–3 conditions

R-Cat report produced 2019/04/09 05:13



For California DWR's AR Program

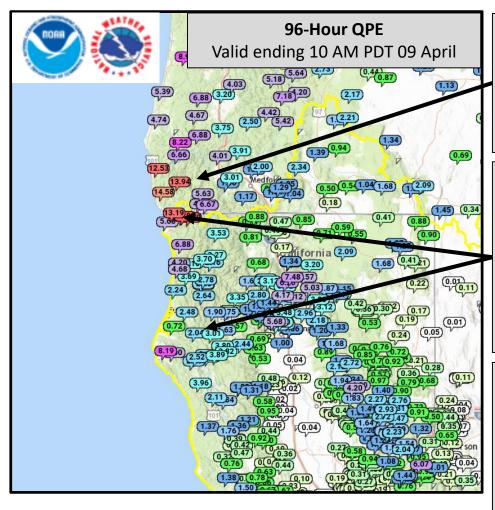


Five rain gauges in northern California and southern Oregon experienced at least a Rainfall Category 1 event over the past 72 hours.

Four locations (Red Mound, OR; Huysink, CA; Fort Dick River, CA; Flynn Prairie, OR) observed R-Cat 2 events (300–400 mm) and Gasquet RS observed a R-Cat 1 event (200-300 mm) over the past 72 hours.

The highest 72-hour accumulated precipitation, observed at Red Mound, OR, was 365.3 mm (14.38 inches). Daily accumulations over the past three days at this location were 107.4 mm (06 April), 148.1 mm (07 April) and 109.7 mm (08 April).

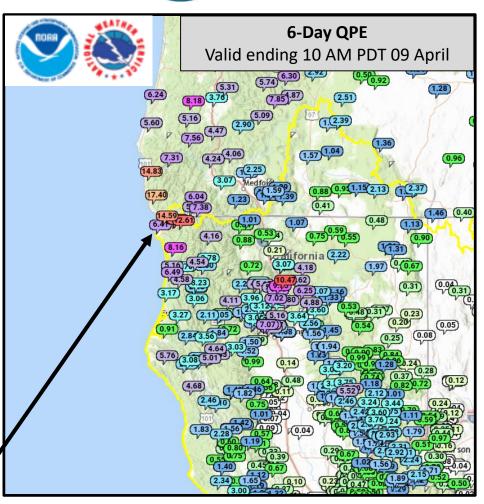
To subscribe to this automated CW3E R-Cat Extreme Precipitation Alert via email: just email a message with subject "subscribe" to rcatalert@cirrus.ucsd.edu.



Numerous rain gauges across Northern California and Southern Oregon received >5 inches of precipitation in association with the AR

The landfall location and limited southward propagation resulted in a large North-South gradient in precipitation maxima (13.19 in. over Fort Dick and ~2 in. over Bridgeville; ~150 km)

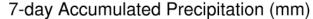
A weaker AR that brought precipitation to Northern CA earlier in the week combined with the 6 – 9 April AR to result in 7-day precipitation accumulations of >12 inches in coastal OR and Northern CA

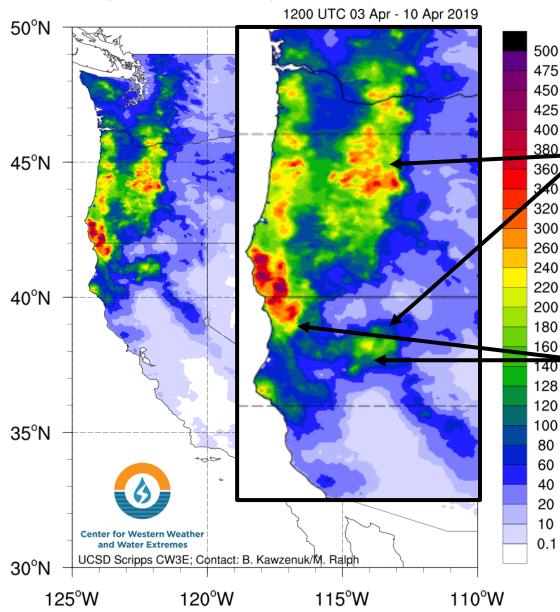


QPE Products from California-Nevada River Forecast Center. Cnrfc.noaa.gov

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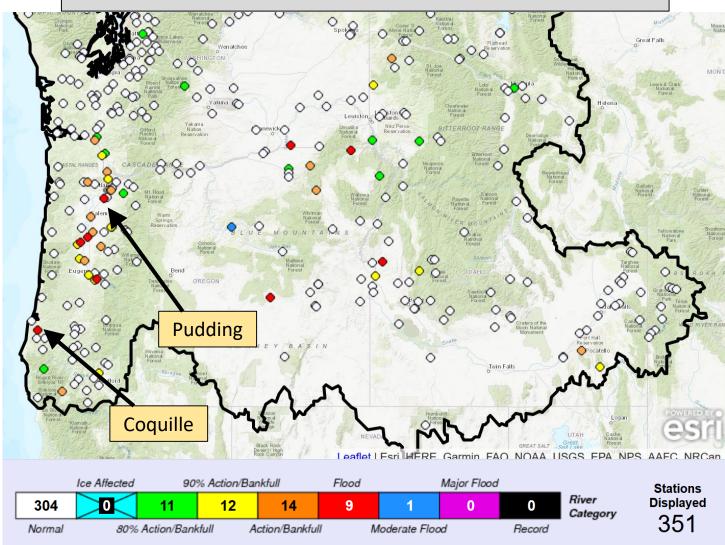
NCEP Stage IV QPE shows 7-day accumulated precipitation amounts greater than 450 mm over northwest CA and SW OR and greater than 200 mm over the Shasta Trinity National Forest and the Coastal and Cascade ranges of OR.

Due to the landfall location and lack of southward propagation of the AR that was a sharp southern edge in the accumulated precipitation.

For California DWR's AR Program



Observed Streamflow – Northwest River Forecast Center

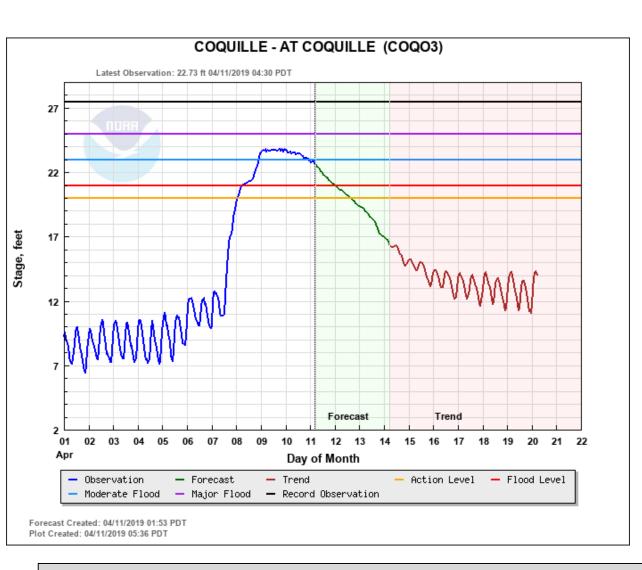


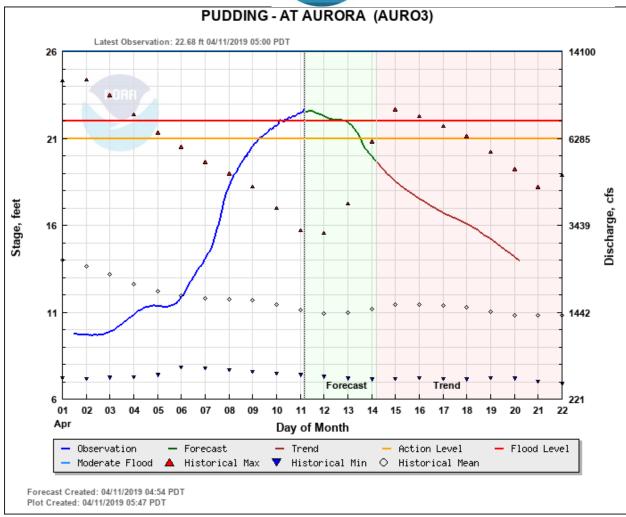
Ten river gauges throughout OR and WA reached flood stage (1 over moderate flood) and an additional 14 reached Action/Bankfull

River gauge data from Northwest River Forecast Center. nwrfc.noaa.gov

For California DWR's AR Program







The Coquille River reached ~23.9 feet, ~0.9 foot above moderate flood stage and the Pudding River reached ~22.8 feet, ~0.8 feet above flood stage (22 feet).

River gauge data from Northwest River Forecast Center. nwrfc.noaa.gov