

AR Update: 11 April 2017

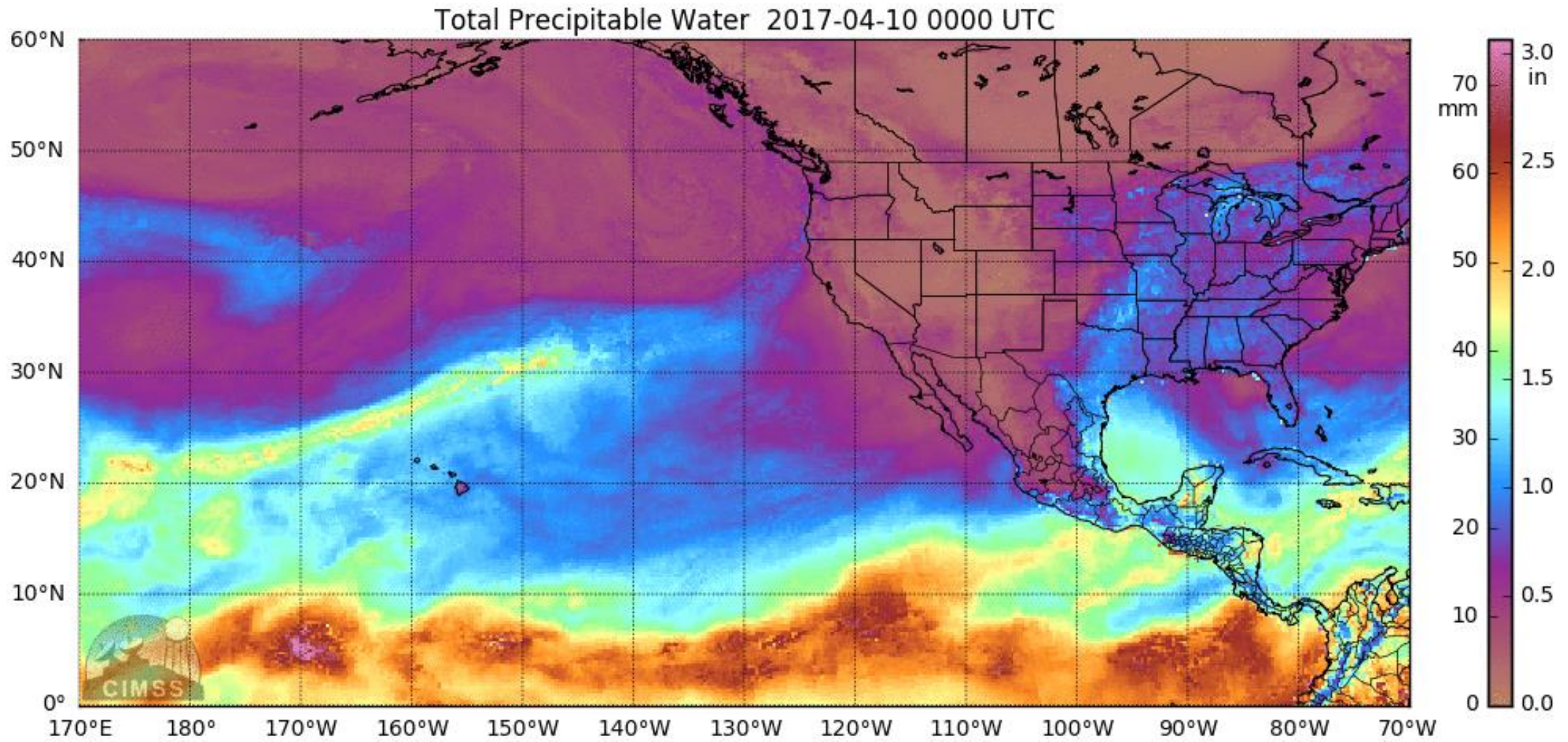
For California DWR's AR Program



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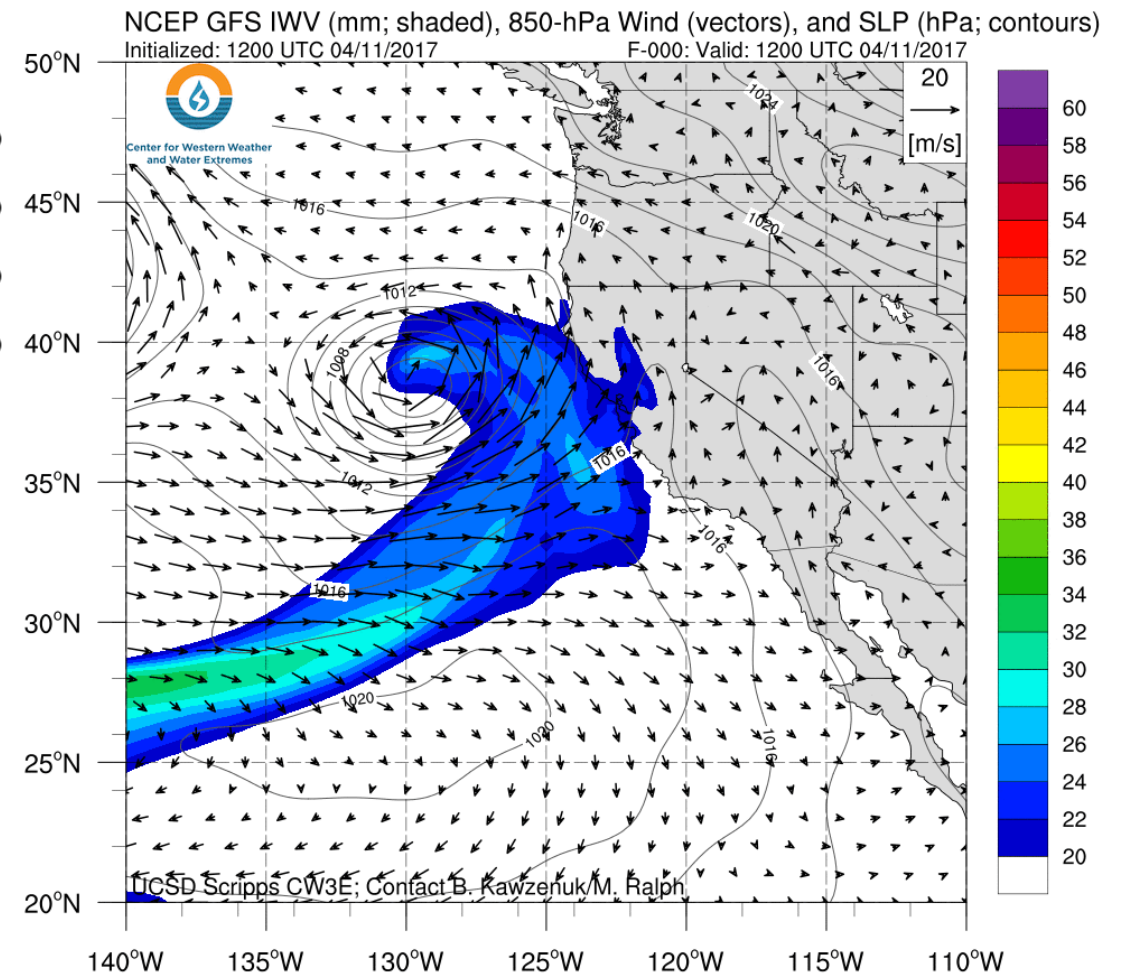
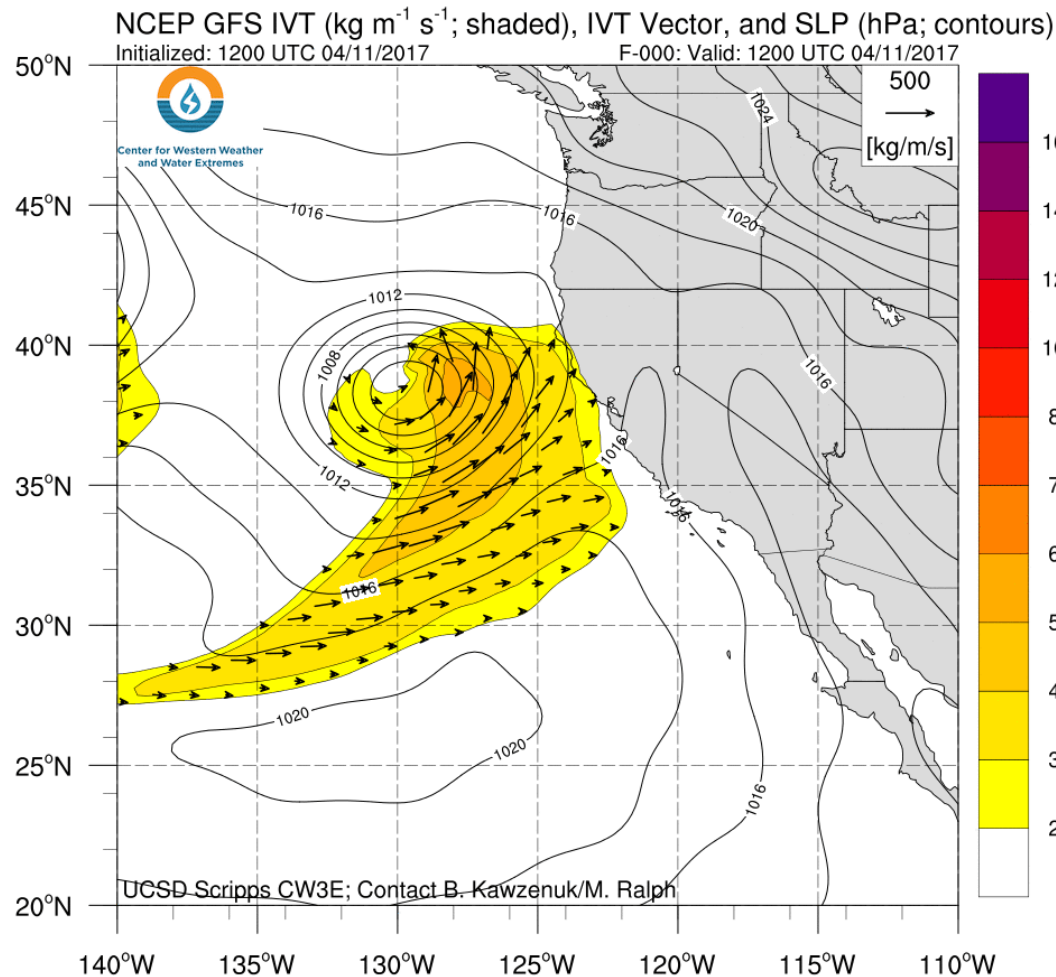
AR Currently Impacting West Coast

- An AR is currently impacting Northern CA producing widespread precipitation over the region
- A second AR is forecast to merge with the current AR, prolonging AR conditions over Northern CA
- .25 to .88 inches of precipitation has already fallen across portions of Northern CA with >2.5 inches forecasted for higher elevations
- This event could produce enough precipitation to make water year 2017 the wettest year recorded by the Northern Sierra 8-station index





A second AR with a separate parent low-pressure system is forecast to merge with the current AR, which could prolong AR conditions over portions of Northern CA

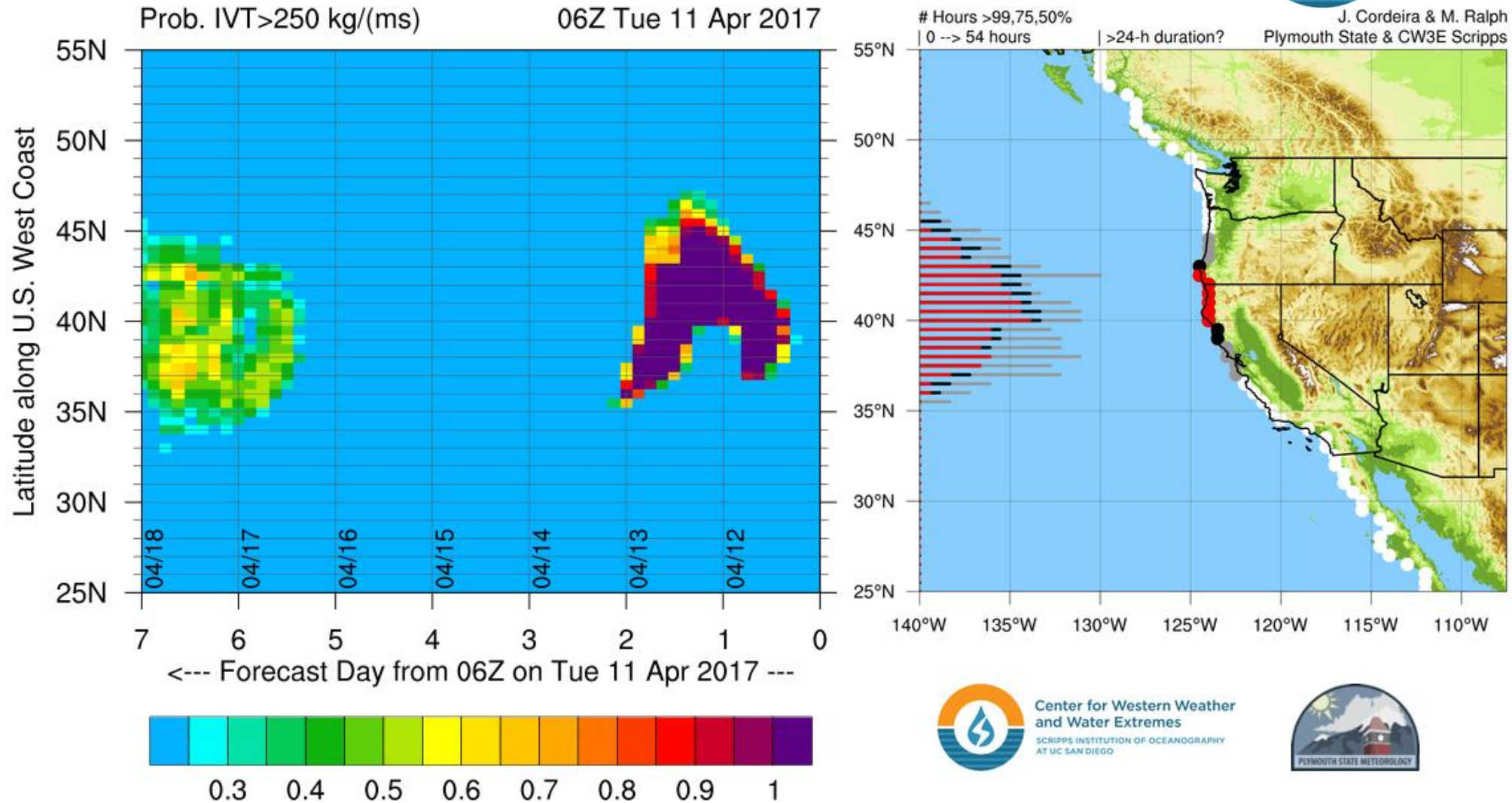


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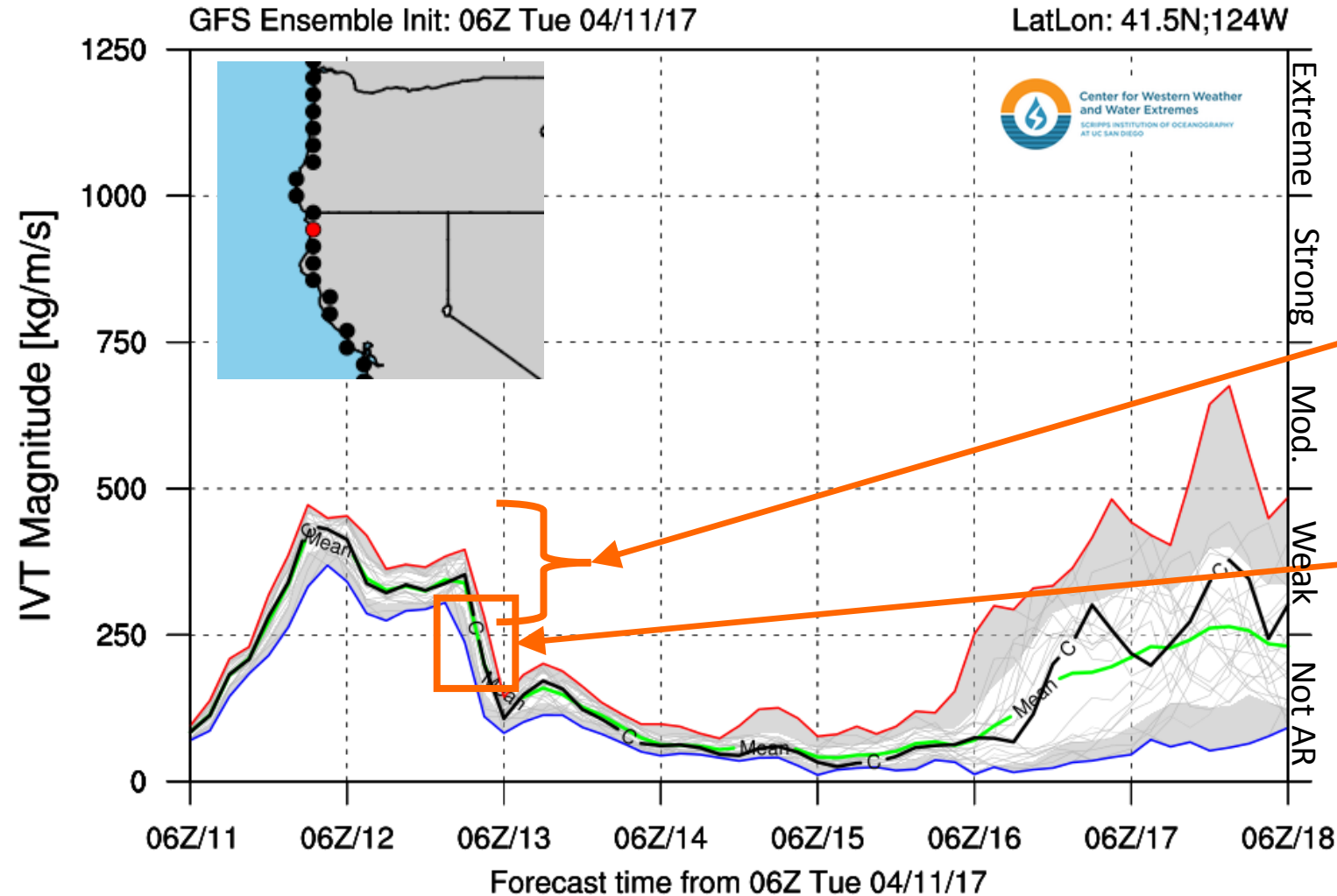
- There is high probability that AR conditions ($\text{IVT} > 250 \text{ kg m}^{-1} \text{ s}^{-1}$) could last more than 24-hrs over Northern CA from 11 to 12 April 2017
- There is low probability of moderate AR conditions ($\text{IVT} > 500 \text{ kg m}^{-1} \text{ s}^{-1}$) associated with this AR (not shown)

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Northern CA is expected to experience weak AR conditions IVT 250–500 $\text{kg m}^{-1} \text{s}^{-1}$

Magnitude of AR over Northern CA

- Maximum possible IVT $\sim 450 \text{ kg m}^{-1} \text{s}^{-1}$
- Mean IVT $\sim 400 \text{ kg m}^{-1} \text{s}^{-1}$
- Uncertainty $\sim \pm 12\%$

High Confidence in end of AR conditions:

- 8 PM PT Thursday 12 April $\pm 2 \text{ h}$

Duration of AR conditions

- Weak: $\sim 36 \text{ hours} \pm 6 \text{ h}$

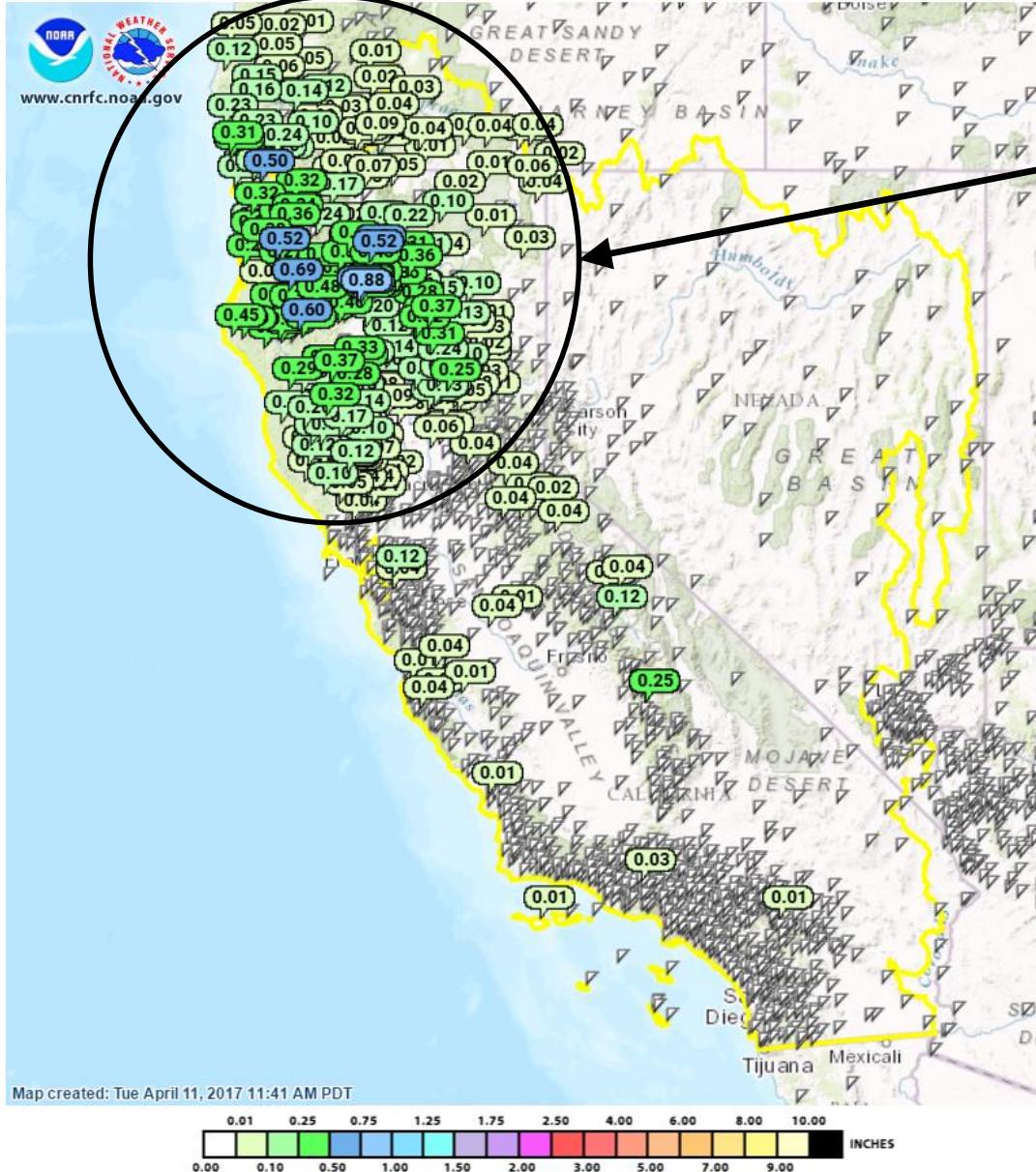
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Observed Precip - Last 12 Hours - Raw

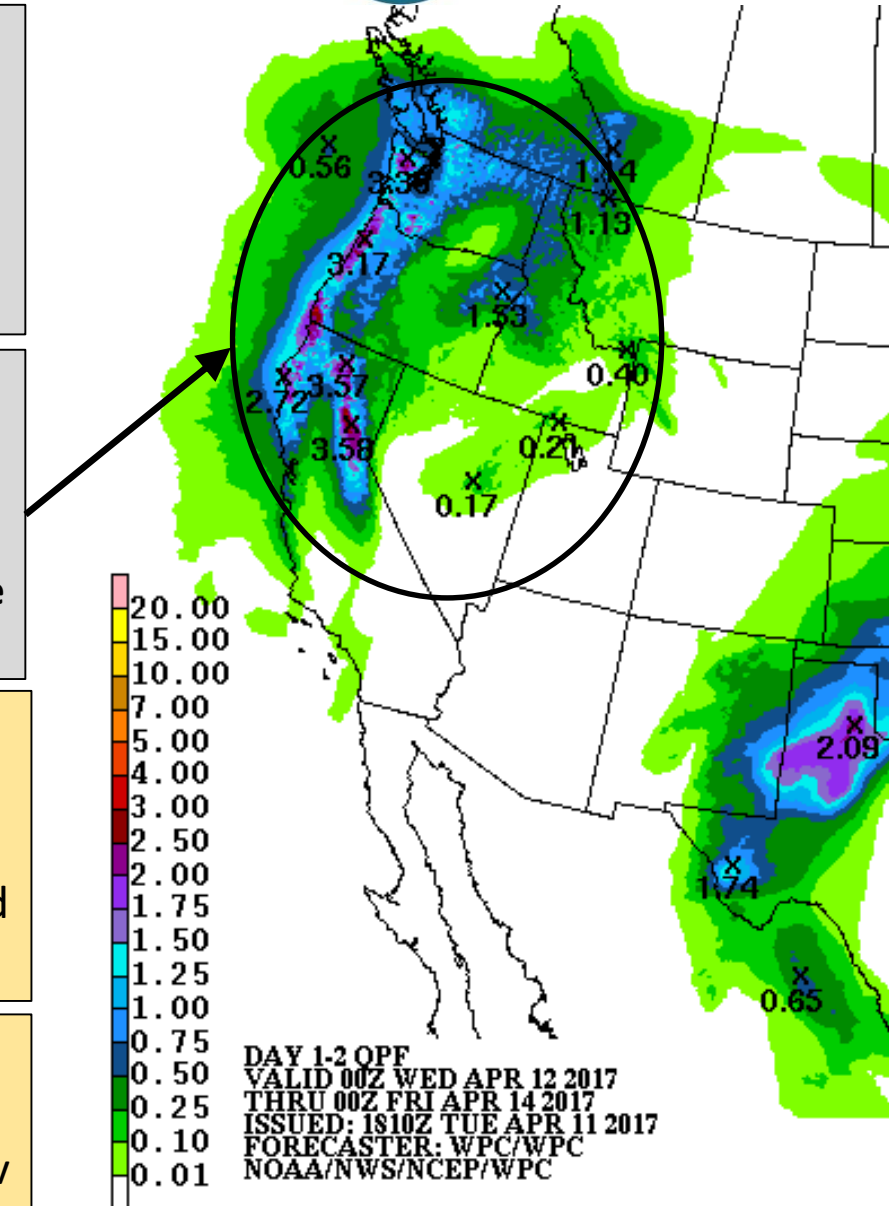


.25 to .88 inches of precipitation has fallen over Northern CA over the last 12-hours in association with the landfall of the current AR

The NOAA WPC is predicting an additional 2.5 to 3.6 inches of precipitation to fall over higher elevations over the next 48 hours

For official NOAA-NWS CNRFC observed precipitation visit cnrfc.noaa.gov/rfc_guidance.php

For official NOAA-WPC precipitation forecasts visit wpc.ncep.noaa.gov



Summary by C. Hecht 1 PM PT Tuesday 11 April 2017

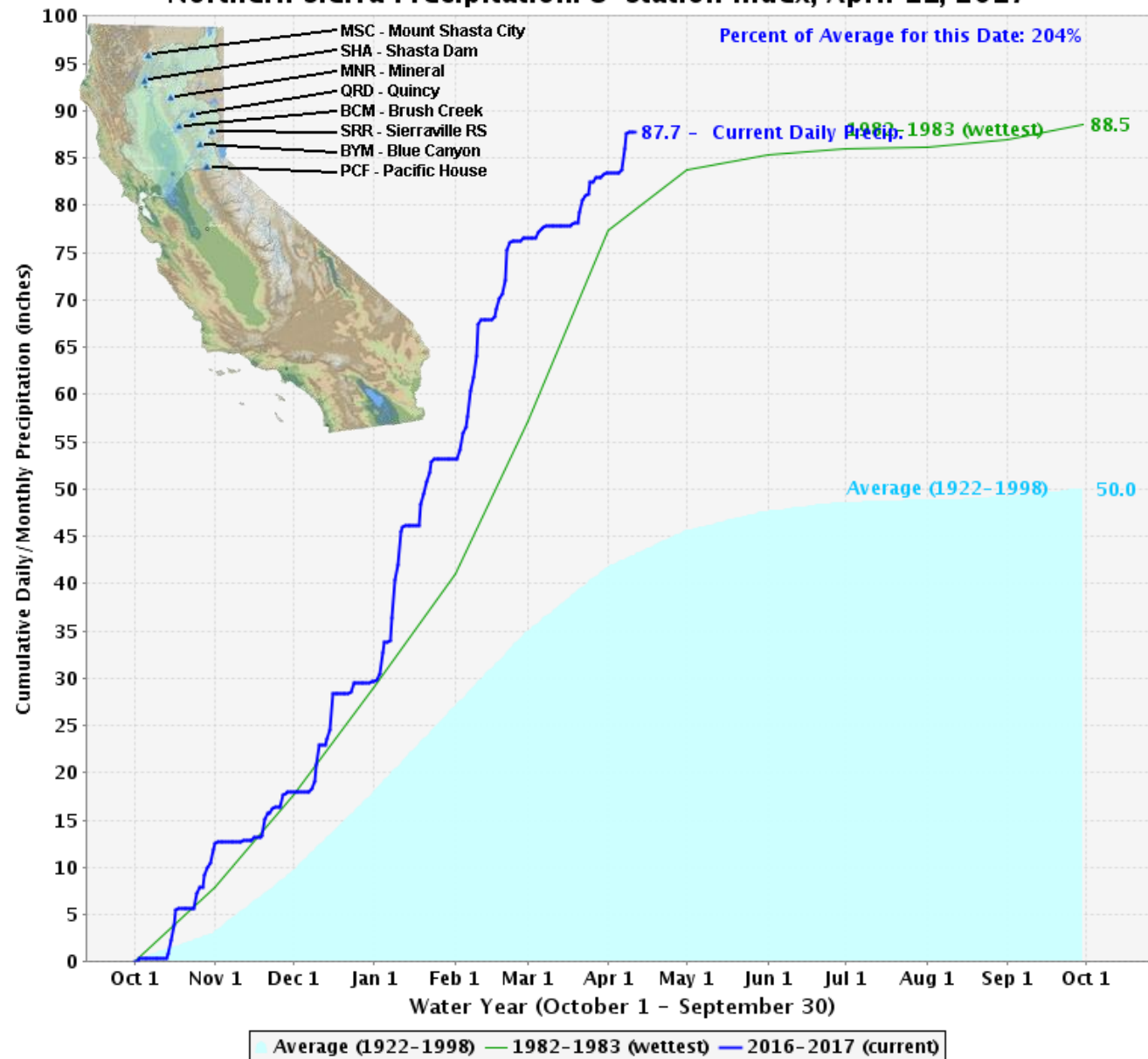
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Northern Sierra Precipitation: 8-Station Index, April 11, 2017



The Northern Sierra 8-Station Index is currently at 87.7 inches for water year 2017 (1 OCT 2016 to 11 April 2017), which is .8 inches lower than the wettest water year on record (1983)

This AR could produce the precipitation needed to make water year 2017 the wettest year on record with ~6.5 months remaining in the water year

Information about the 8-station index can be accessed at cdec.water.ca.gov/cdecapp/precipapp/get8SIPrecipIndex.action

Summary by C. Hecht 1 PM PT Tuesday 11 April 2017