

CW3E Atmospheric River Update – Outlook

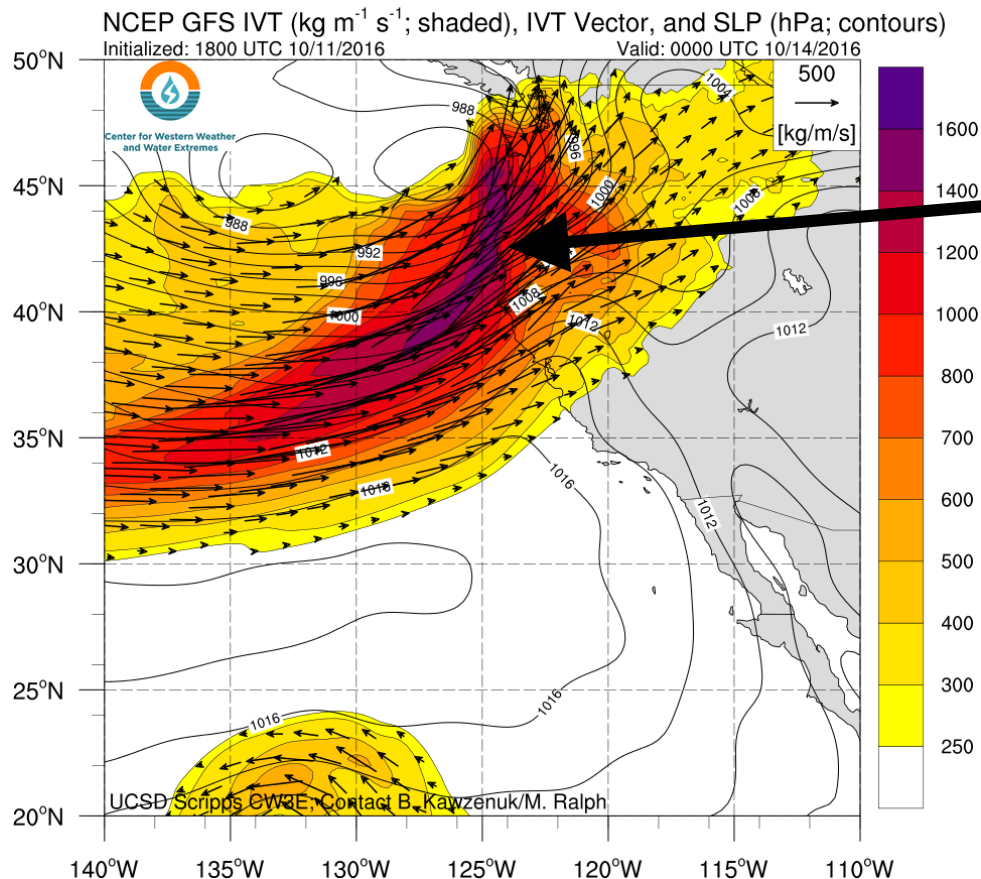


Center for Western Weather
and Water Extremes
SCRIPPS INSTITUTION OF OCEANOGRAPHY
AT UC SAN DIEGO

First strong landfalling Atmospheric River this water year to hit NW US, including N. CA

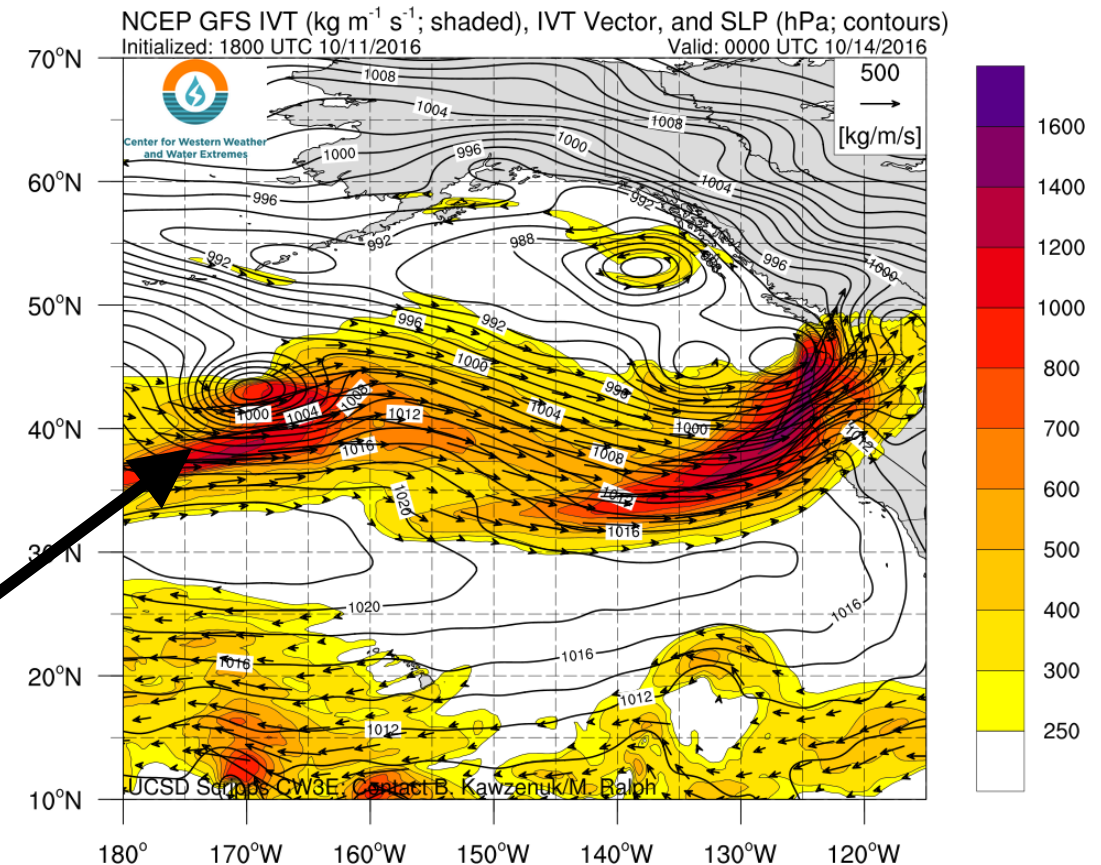
- Strong AR conditions at landfall; First in a 4-day long series of predicted landfalling ARs
- Could produce >12 inches of rain in normally wet areas of Oregon and NorCal
- R-Cat 2 rainfall potential (i.e., favored mountain areas could see >12 inches of rain or snow-water equivalent over 3 days)
- Dry soil and low streamflow in early season means soil will absorb a significant portion of the rain before filling streams

For California's DWR's AR Program



First AR has
very strong
water vapor
transport at
landfall on 13
Oct. High
confidence.

Second AR is
seen farther
west. Likely to
hit shore on 15
Oct. Moderate
confidence.



Summary by F.M. Ralph 11 PM PT Tue 11 Oct 2016

AR Outlook for Eureka CA area: 2 ARs hit back to back

Onset of moderate-strength AR conditions Thursday early morning and lasts about 24 hours, creating over 6 inches of rain in NorCal per NWS forecast.

Combined impacts of 2 ARs is over 15 inches of rain in 3-4 days per NWS

1st AR's Max strength is uncertain by +/- 10%

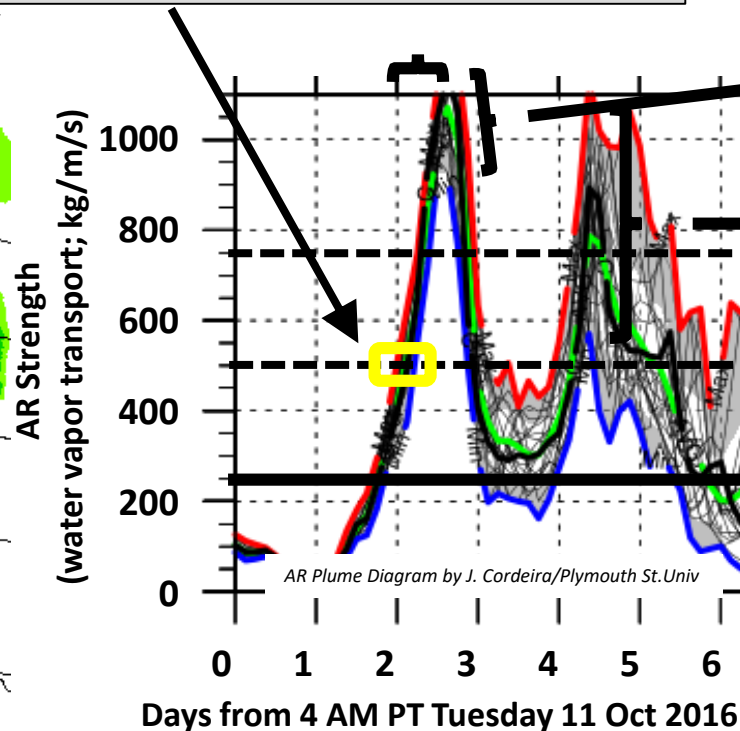
2nd AR strength is very uncertain by +/- 30%

Strong AR

Moderate strength AR

Minimal strength AR

Not an AR



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

For Official NOAA-NWS CNRFC Streamflow forecasts see
http://www.cnrfc.noaa.gov/rfc_guidance.php

