

CW3E Atmospheric River Update – Outlook



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

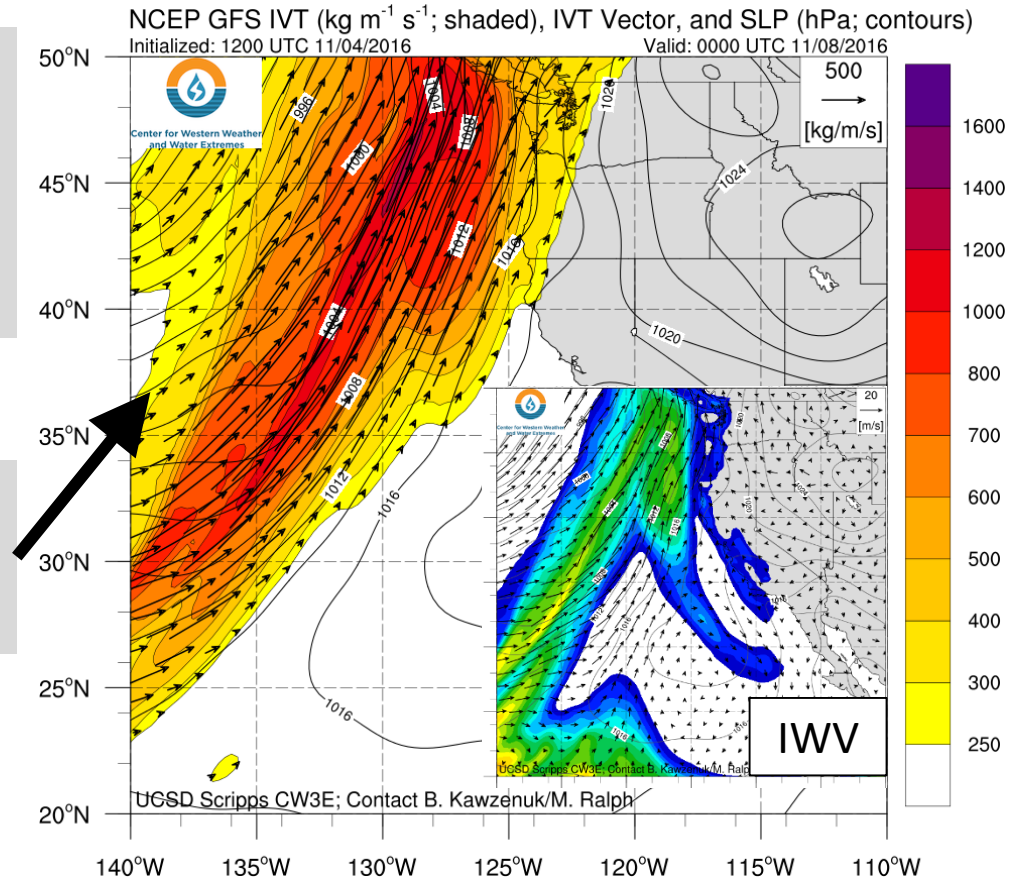
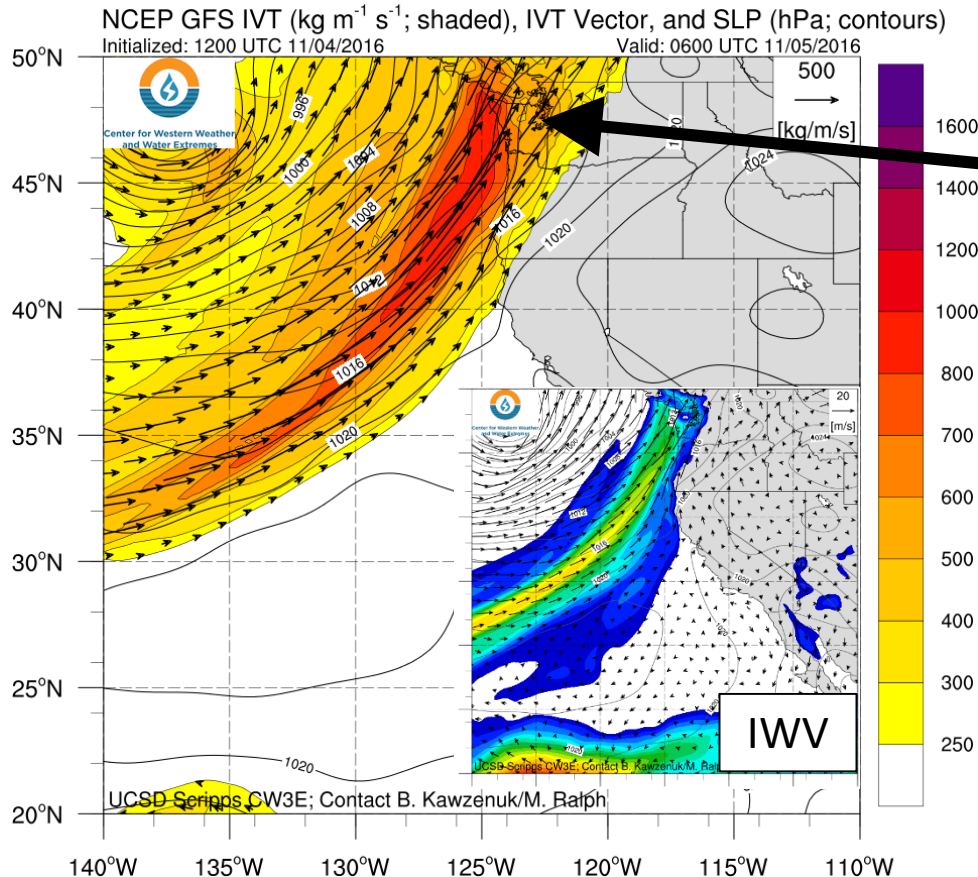
Two Consecutive ARs to make Landfall in the Pacific Northwest

- Moderate strength and normal duration AR conditions during first landfalling event over next 48 hours
- Large variability in timing and strength of second AR
- NWS Forecast precipitation >12 inches over Vancouver Island in Canada over the next 5 days
- While AR conditions are impressive over OR and WA coastline, precipitation forecast amounts are limited due to unfavorable AR orientation and rain shadowing

For California's DWR's AR Program

First AR has moderate south/southwesterly oriented water vapor transport at landfall on 5 Nov.

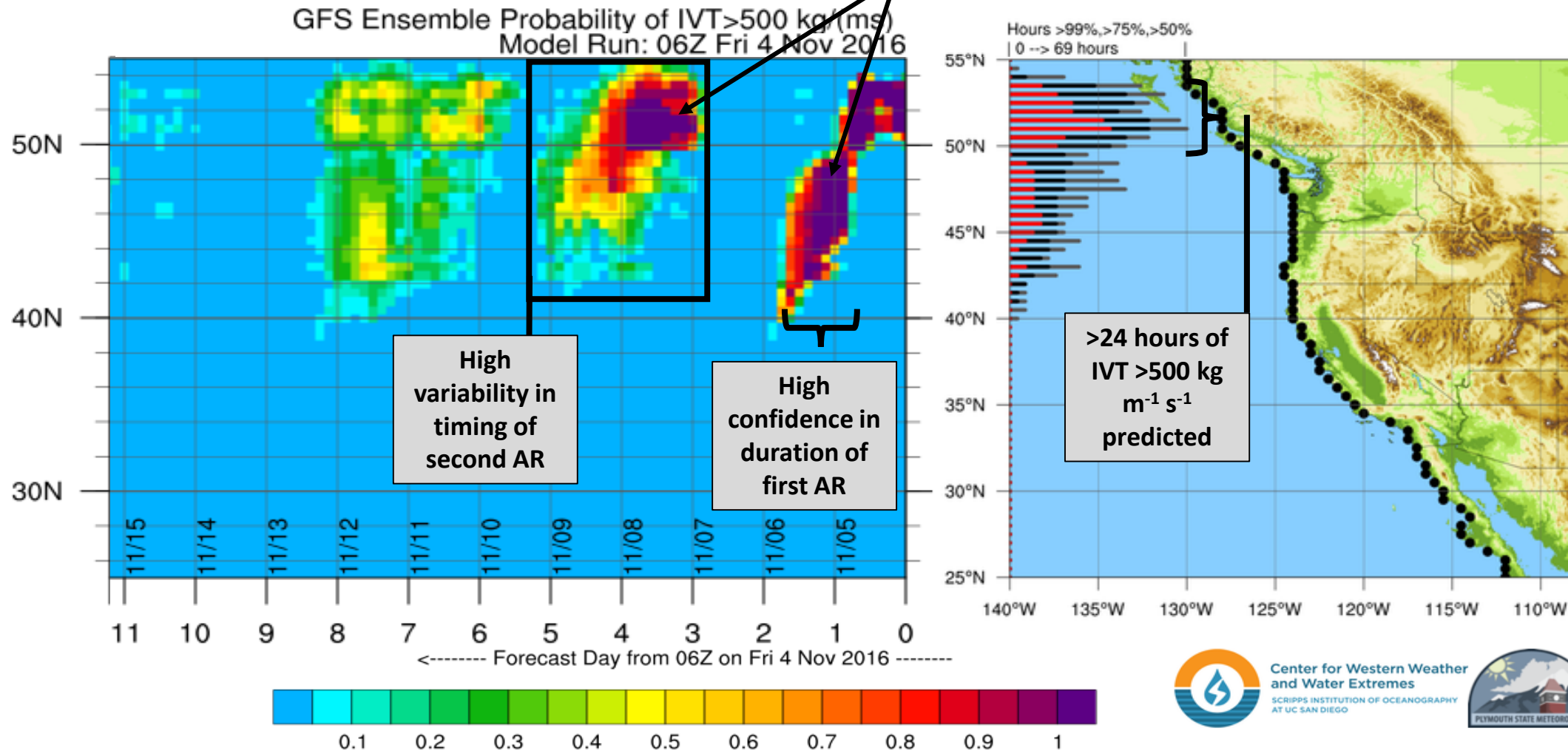
Similar conditions forecast for ~3 days later on 8 Nov.



Summary by C. Hecht 3 PM PT Fri 05 Nov. 2016

AR Outlook for PNW: 2 ARs hit back to back

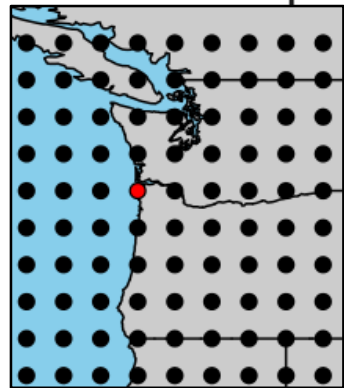
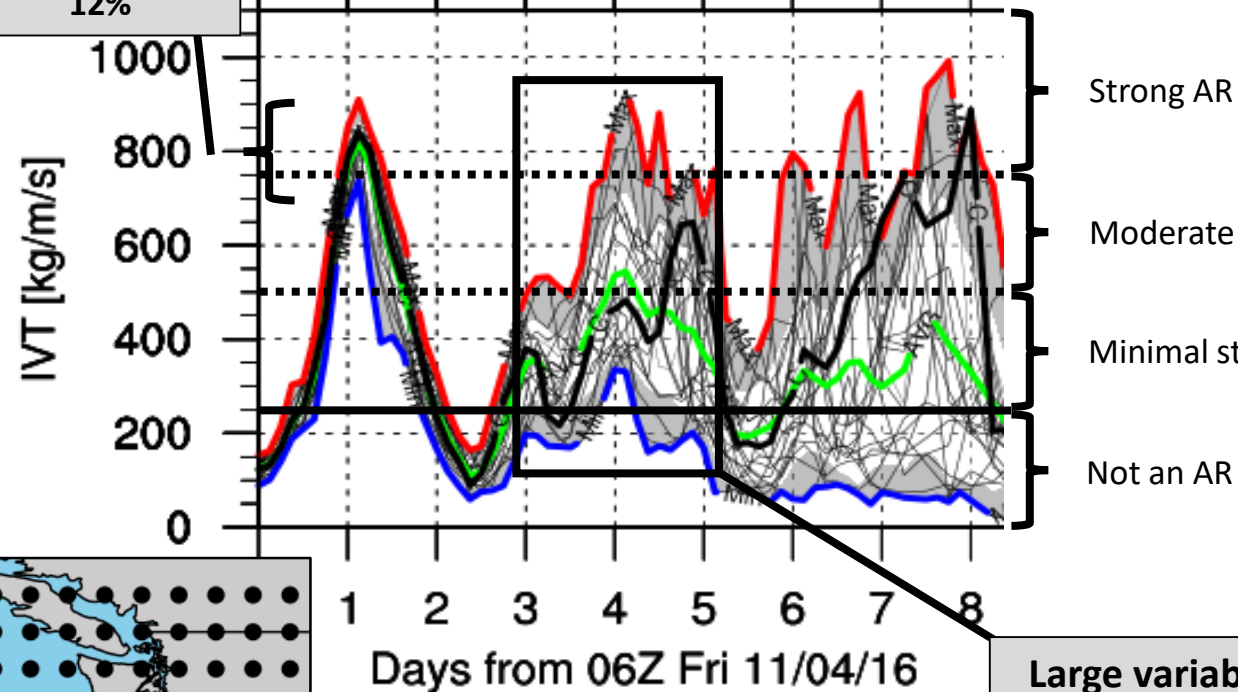
Two ARs predicted to make landfall over
the PNW in the next five days



AR Outlook for PNW: 2 ARs hit back to back

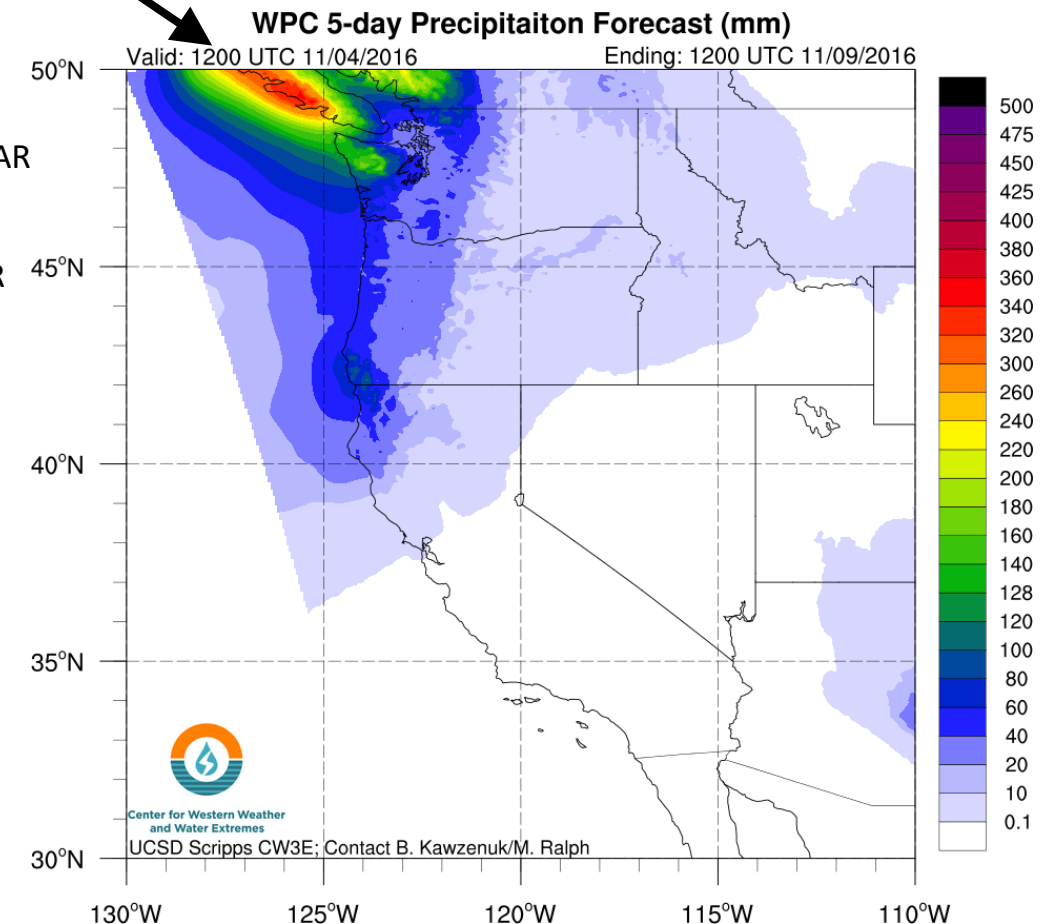
1st AR's Max
strength is
uncertain by +/-
12%

init: 06Z Fri 11/04/16 LatLon: 46N:-124W



Large variability
in timing and
strength of
second AR

Largest 5-day forecast precipitation accumulations focused over
Vancouver Island and the Olympic Mountains where upslope
moisture flux is more favorable



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

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