

Regional Climate Perspective

Nick Bond & *Karin Bumbaco*

Office of the Washington State Climatologist

Cooperative Institute for Climate, Ocean and Ecosystem Studies

University of Washington

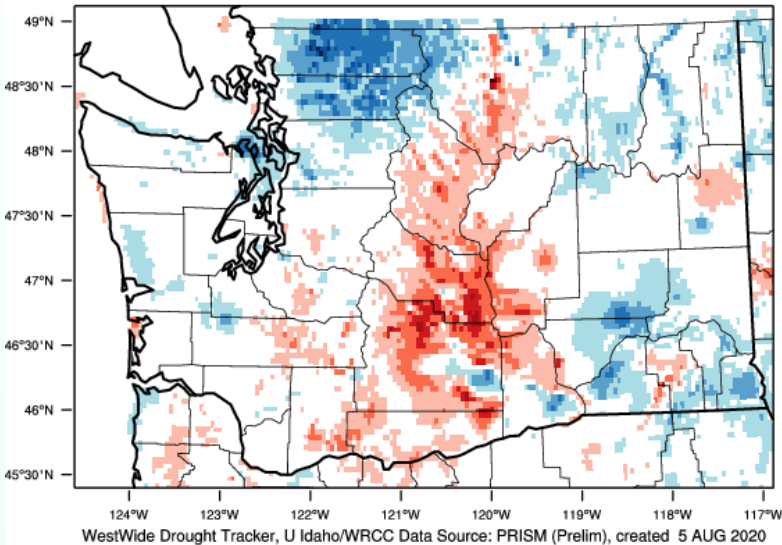
7 August 2020

2020 Water Year

Temperature

Washington - Mean Temperature

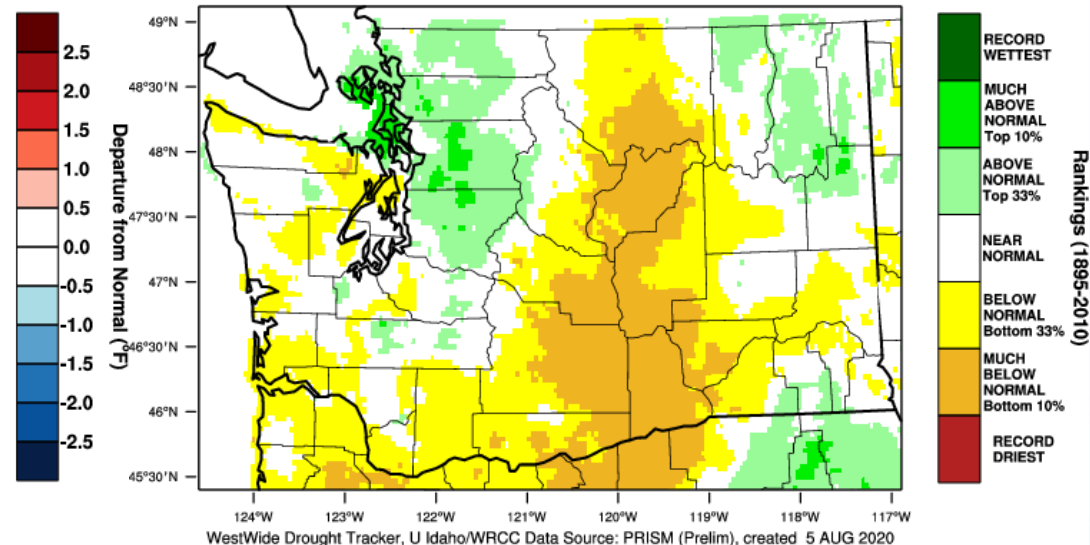
October-July 2020 Departure from 1981-2010 Normal



Precipitation

Washington - Precipitation

October-July 2020 Percentile



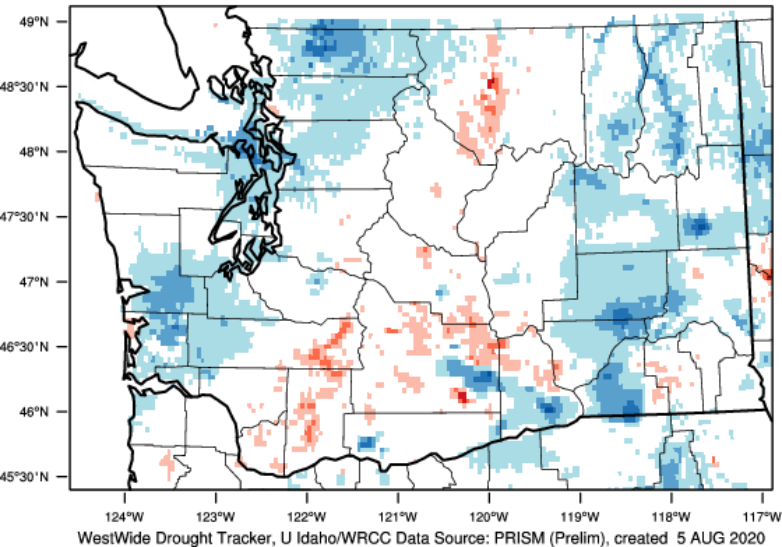
- Near-normal temperatures statewide (+0.3°F)
- Near-normal precipitation averaged statewide (93% of normal) but considerable regional variation
 - Benton county average: 64% of normal (9th driest on record*)

*records since 1895

July 2020

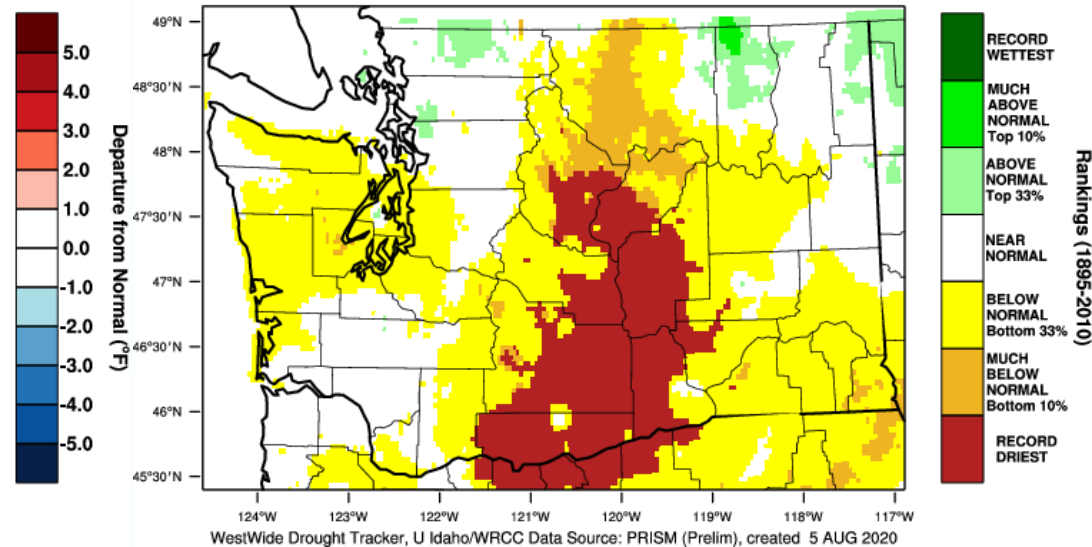
Temperature

Washington - Mean Temperature
July 2020 Departure from 1981-2010 Normal



Precipitation

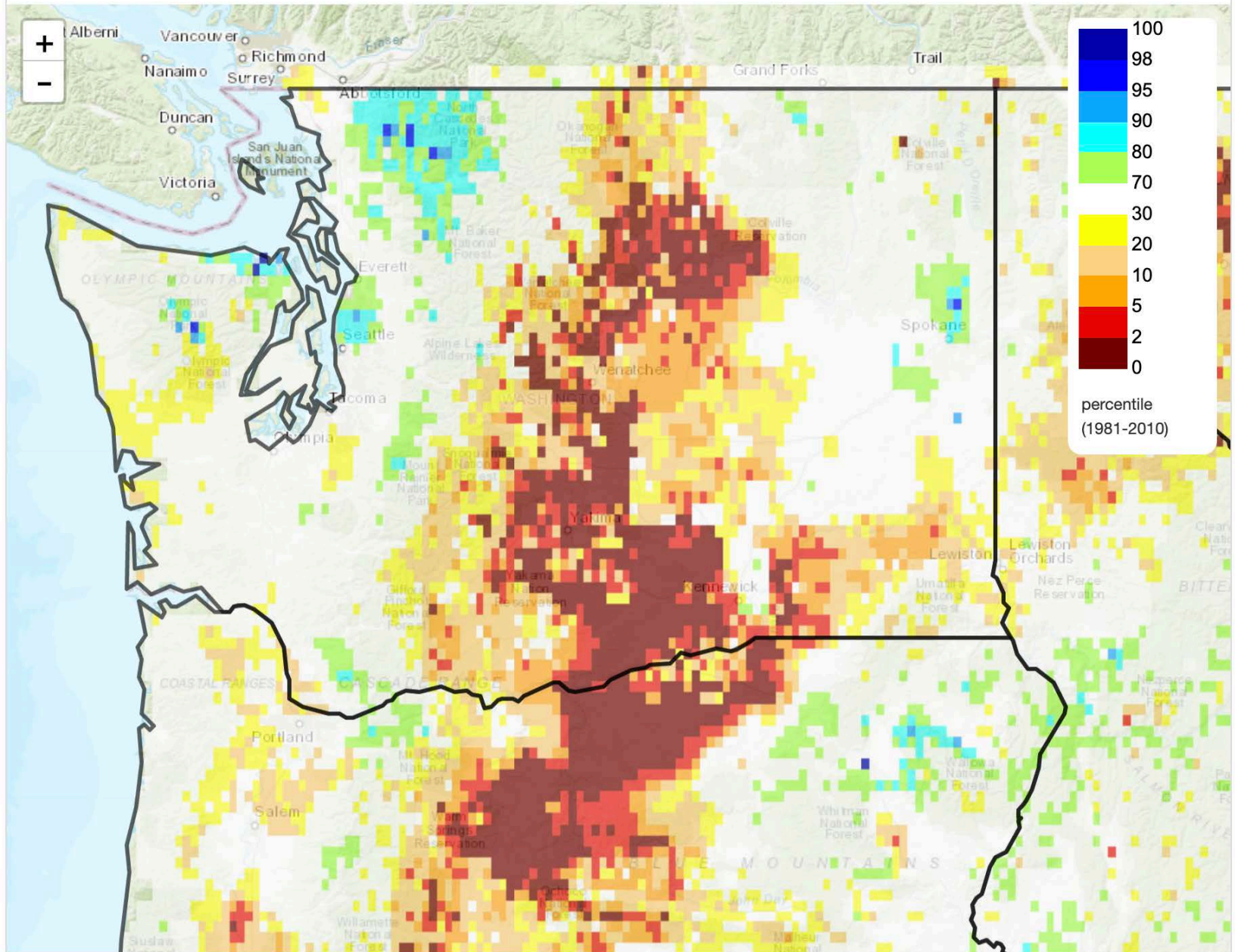
Washington - Precipitation
July 2020 Percentile



- Mostly cooler than normal in western and eastern WA; pockets of warmth in central WA (+0.1 F statewide)
- Virtually no rain in south-central WA (40% normal statewide)

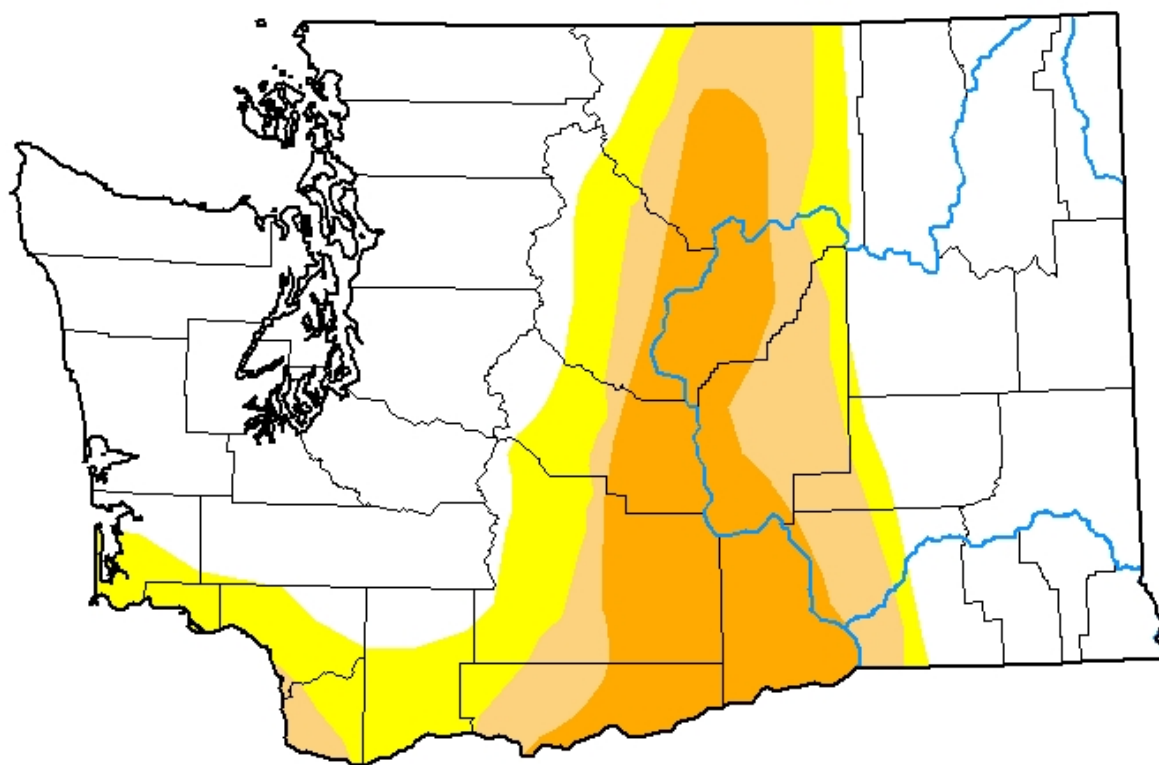
Total Moisture Percentile

2020/08/04









U.S. Drought Monitor Washington

August 4, 2020
(Released Thursday, Aug. 6, 2020)
Valid 8 a.m. EDT



Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

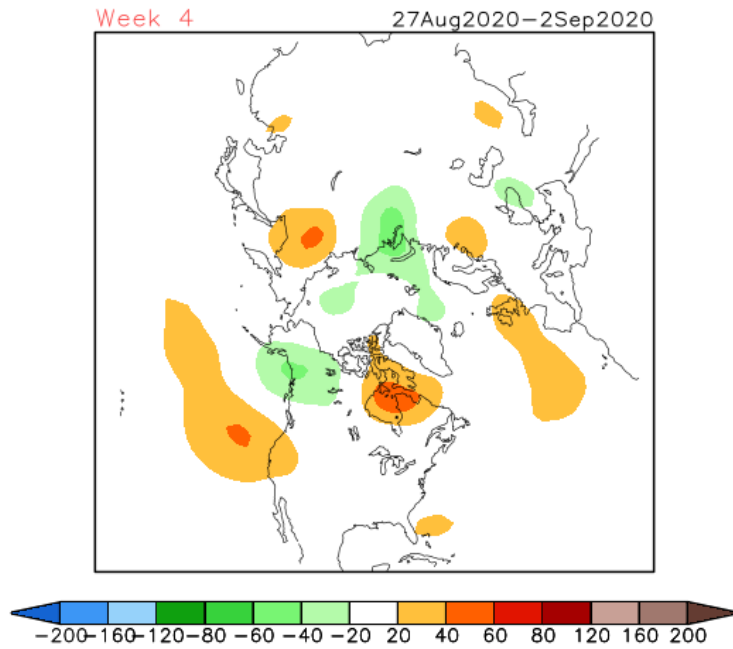
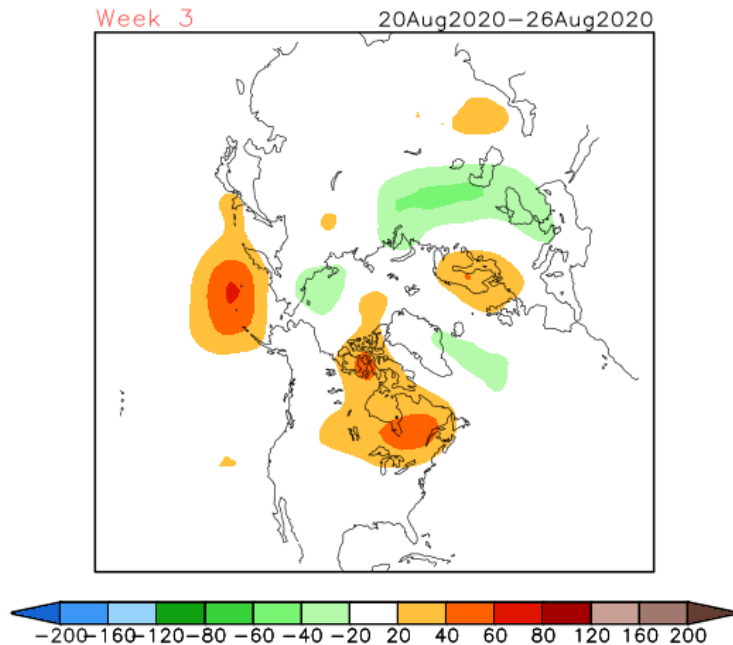
Author:

Brian Fuchs
National Drought Mitigation Center



droughtmonitor.unl.edu

CFSv2 Weeks 3 & 4 500 hPa Z Anomalies (m)
16 Member Ensemble Mean Forecast from 05Aug2020



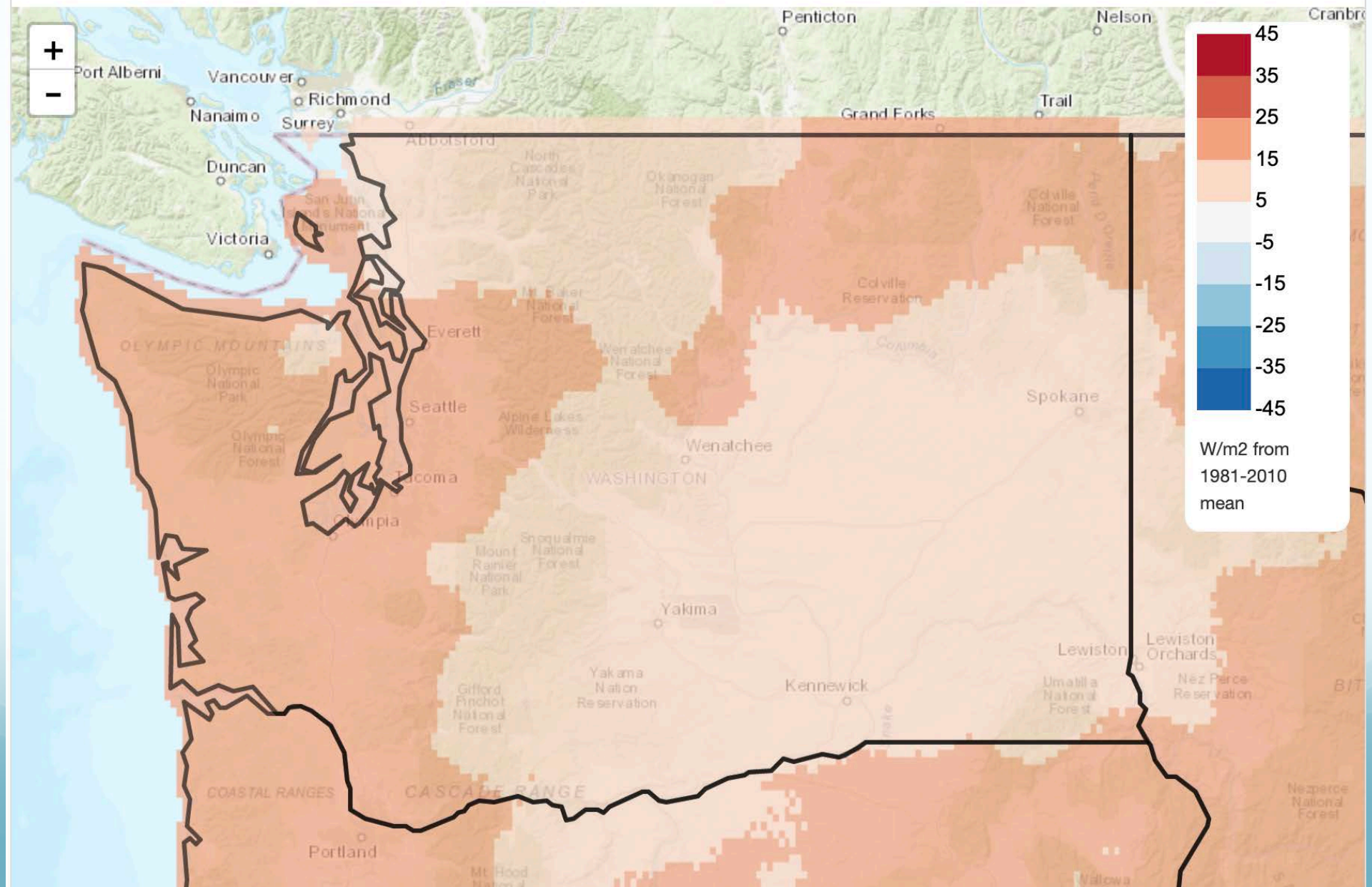
Latest Set of Week 3-4
Forecasts from CFSv2

Weak signal early and slightly
enhance westerly flow late;
minor indication of warm and
dry weather for the Pacific NW
in week 3

Downward Shortwave Flux at Surface Anomaly, Week 1-4, Next 1-28 Days

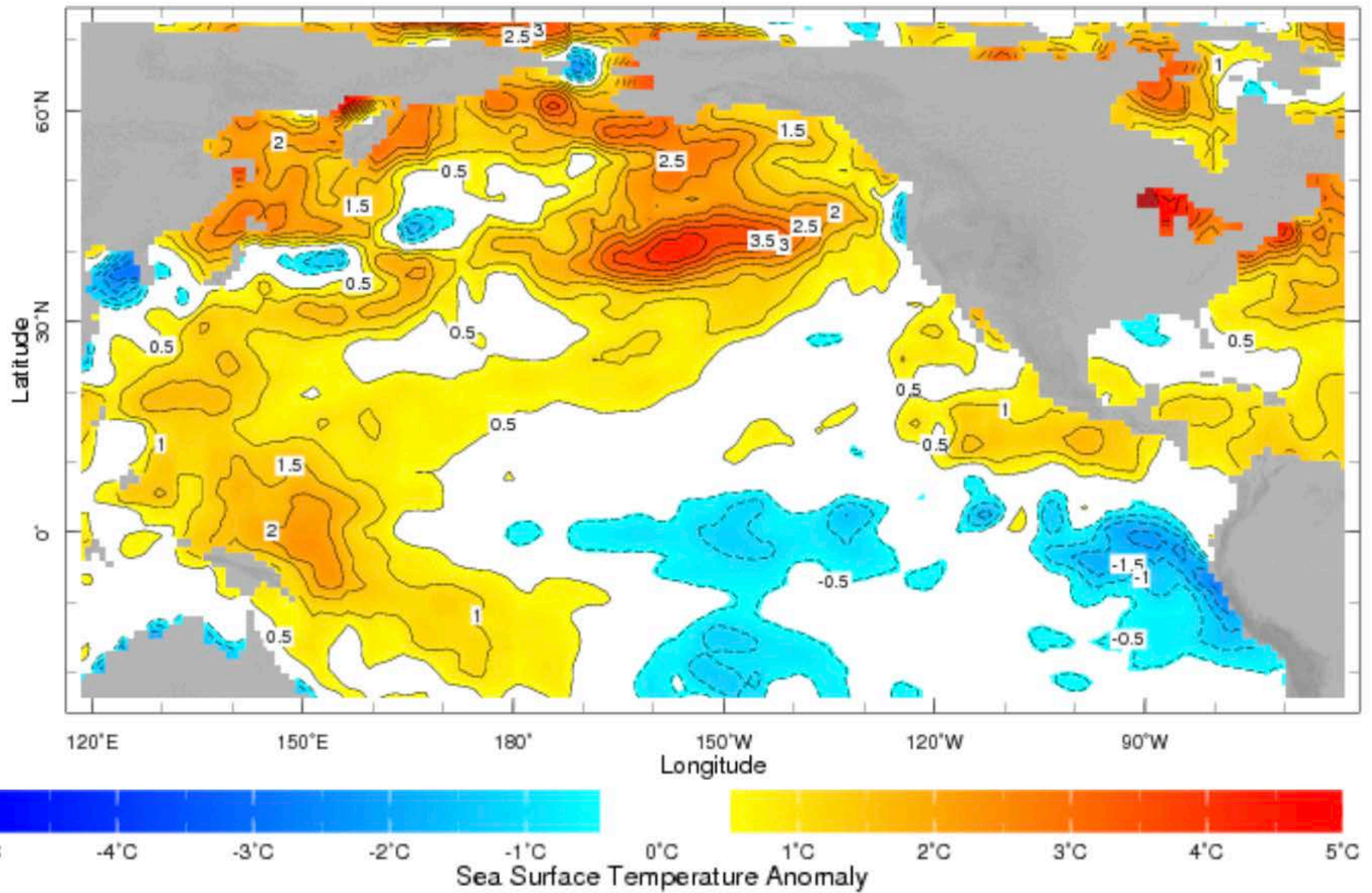
2020/08/06 - 2020/09/02

Multi-ensemble mean from 48 downscaled CFSv2 ensemble forecasts - forecast made 12Z-02-Aug-2020 to 6Z-05-Aug-2020



Sea Surface Temperature Anomalies

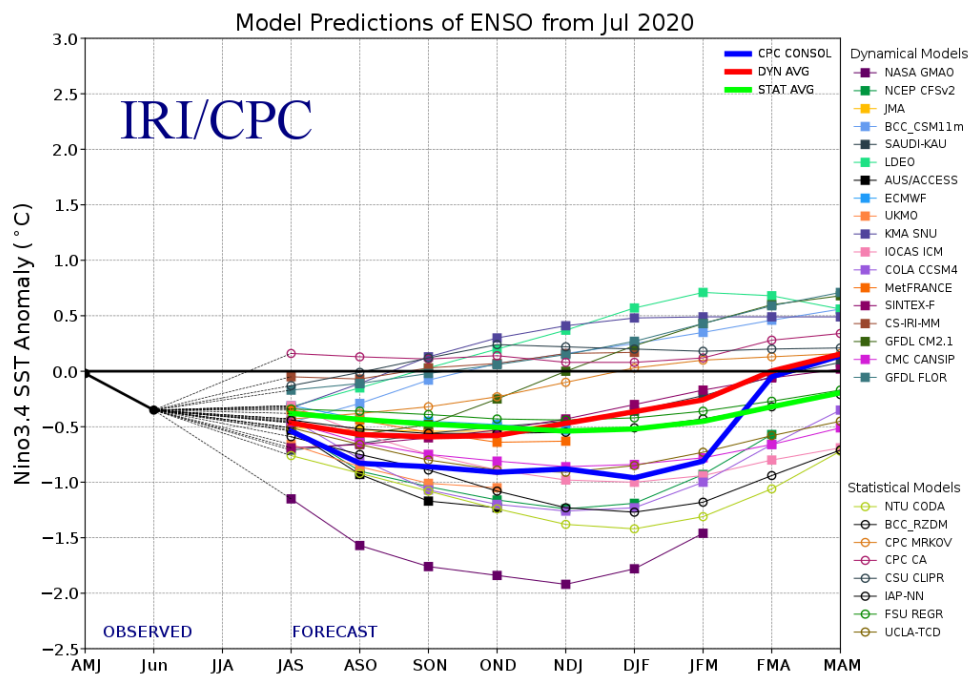
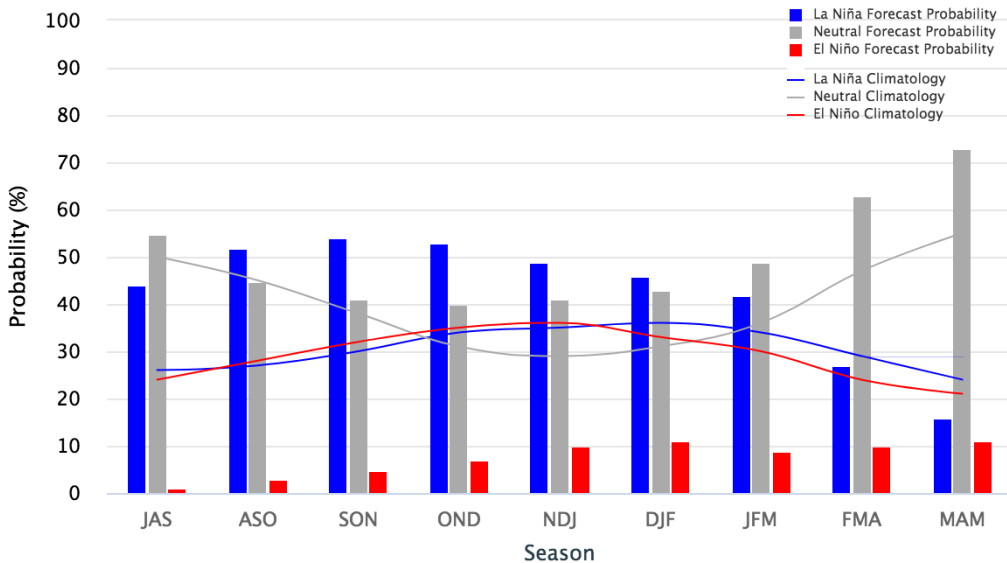
29 Jul 2020



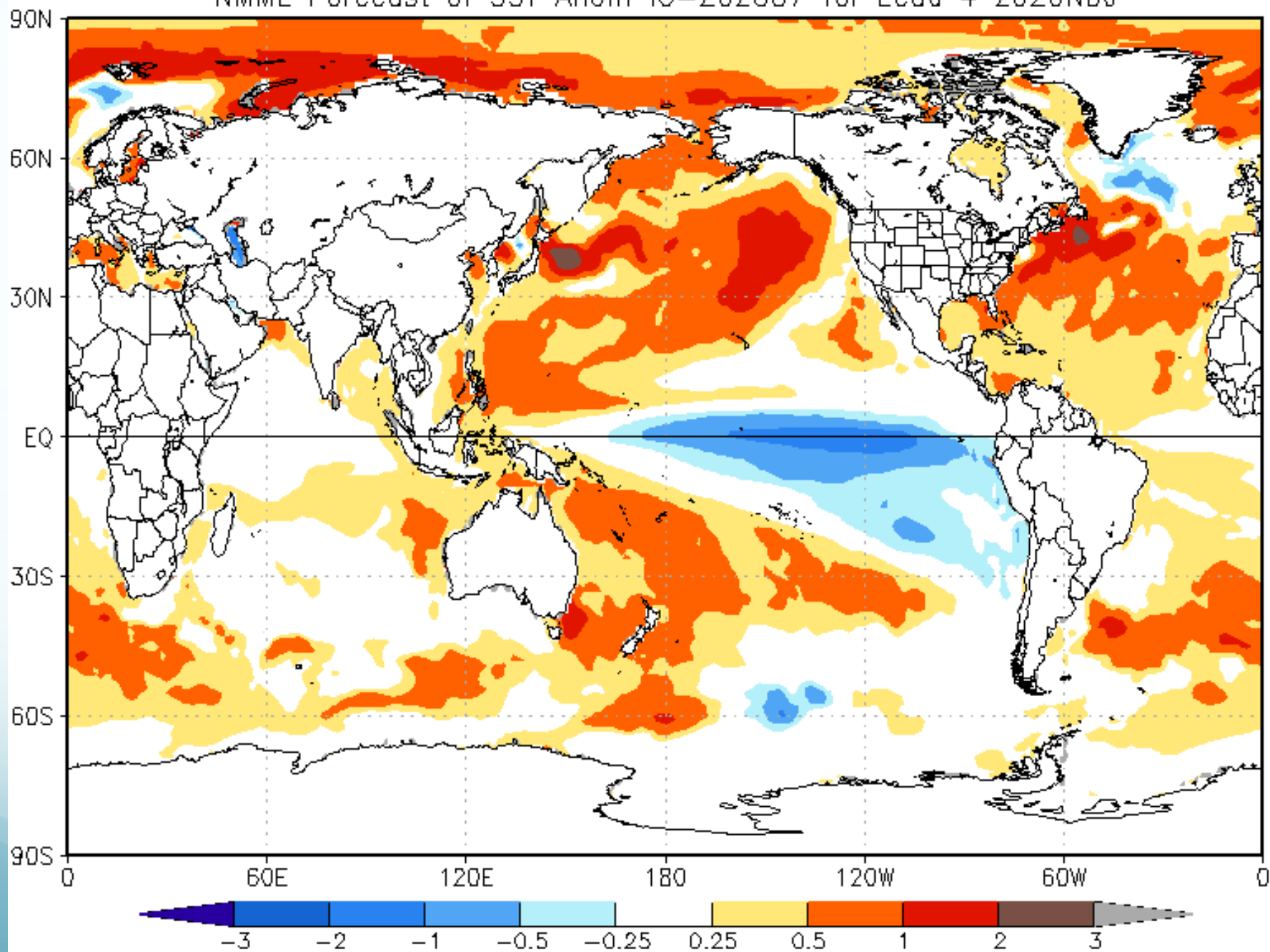
Mid-July 2020 IRI/CPC Model-Based Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly
Neutral ENSO: -0.5°C to 0.5°C

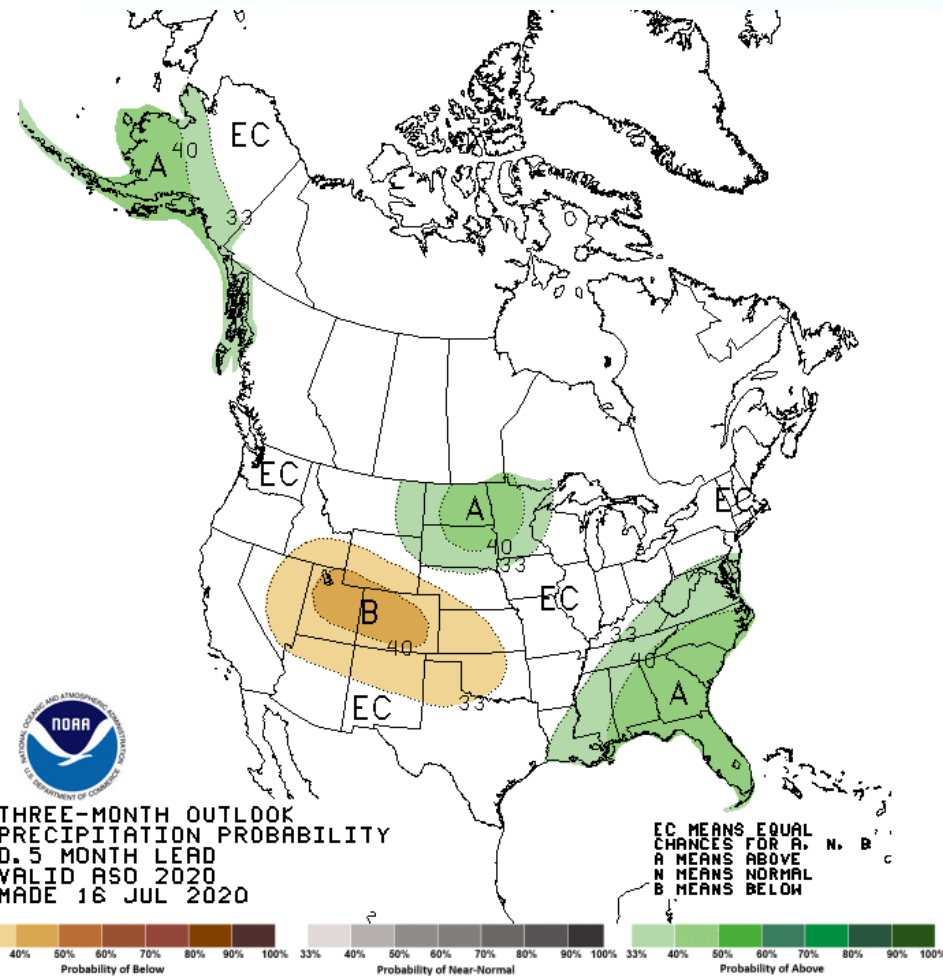
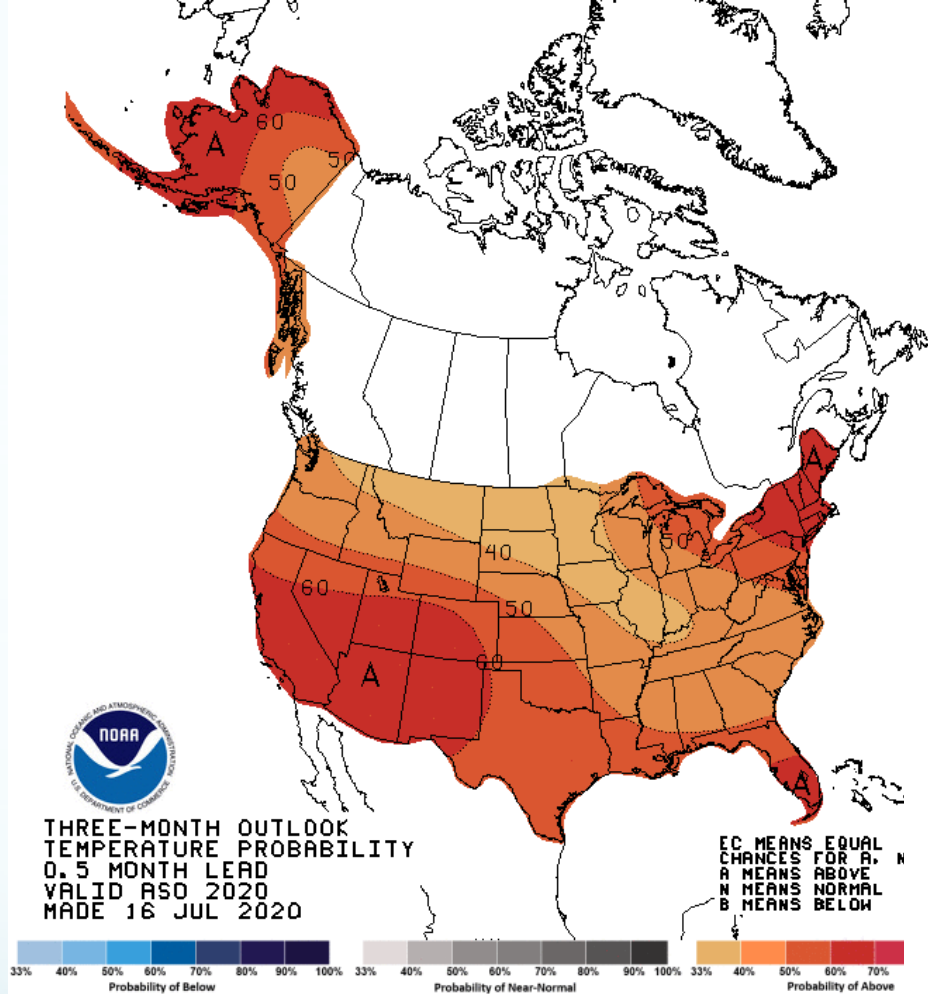
ENSO Predictions



NMME Forecast of SST Anom IC=202007 for Lead 4 2020NDJ



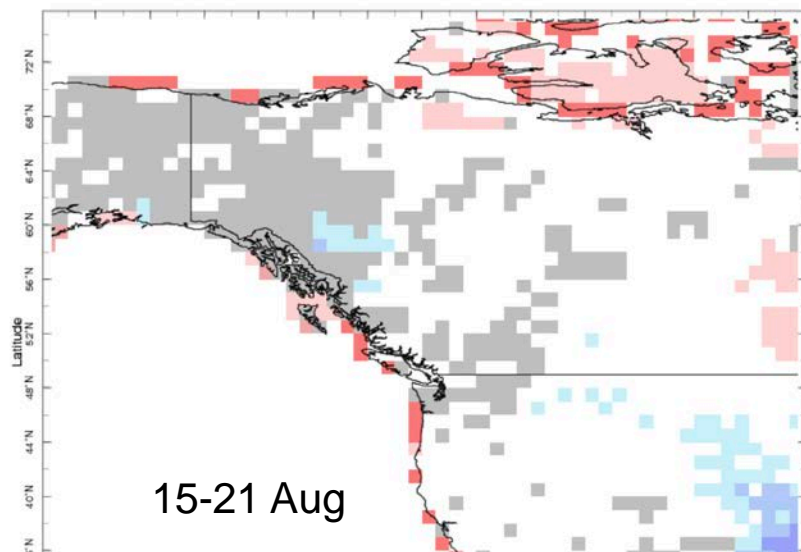
NOAA/CPC Forecasts for Aug-Oct 2020



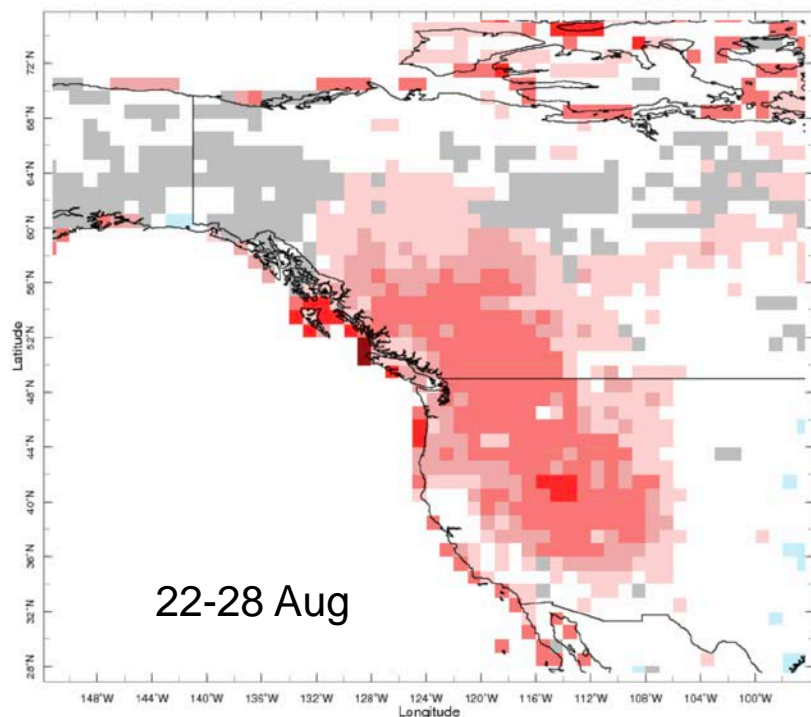
Temperature

Experimental Sub-Seasonal Forecasts

Precipitation

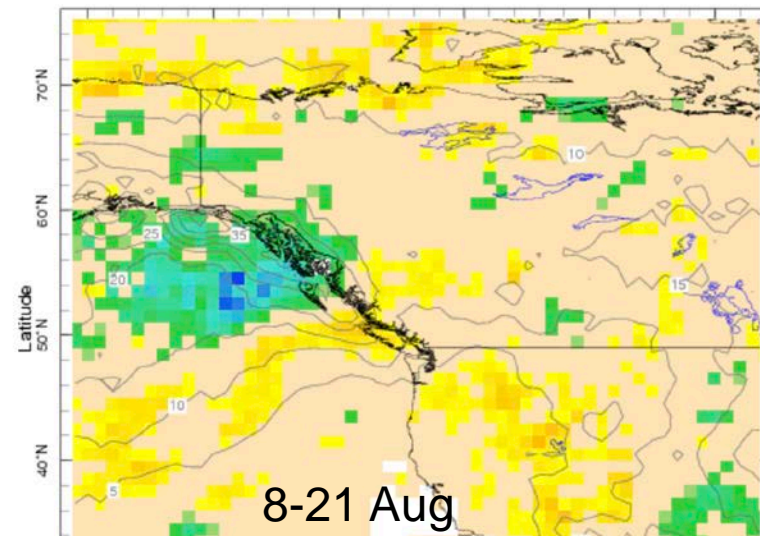


15-21 Aug

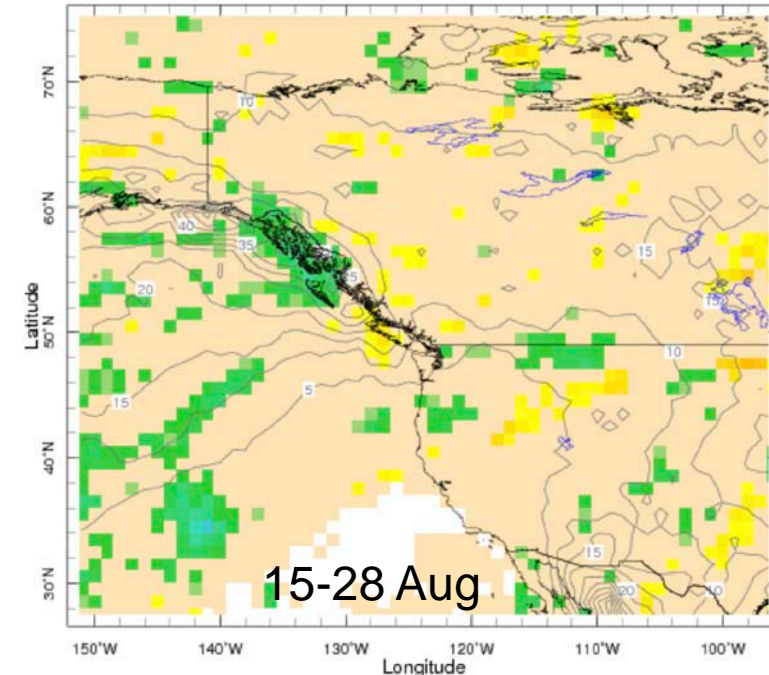


22-28 Aug

22-28 Aug 2020 IRI SubX Temperature Forecast issued 0000 31 Jul 2020

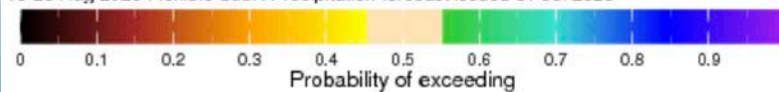


8-21 Aug



15-28 Aug

15-28 Aug 2020 Flexible SubX Precipitation forecast issued 31 Jul 2020



Final Remarks

- Water year 2020 slightly warmer than normal for central portion of the state; quite dry east of the Cascades
- Low soil moisture east of the Cascades especially near Columbia River, as reflected by US Drought Monitor
- Tropical Pacific is on the cool side; weak-moderate La Nina seems increasingly likely by fall
- Temperatures expected to run warmer than normal during the remainder of summer but not to an extreme
- Squirrels destroyed all my plums long before they were ripe; all I had was a five-iron and limited patience