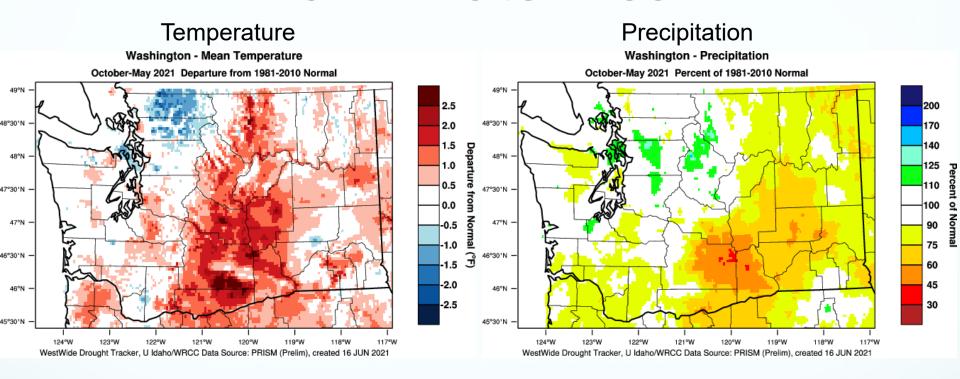
Regional Climate Perspective

Nick Bond & Karin Bumbaco
Office of the Washington State Climatologist
Cooperative Institute for Climate, Ocean, and Ecosystem Studies
University of Washington
25 June 2021

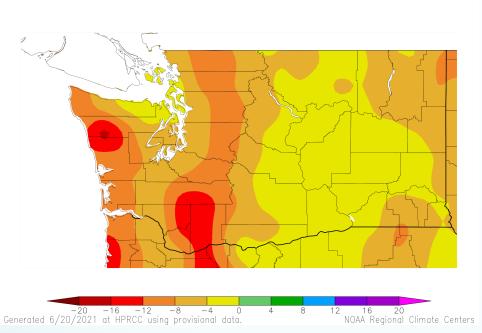
2021 Water Year

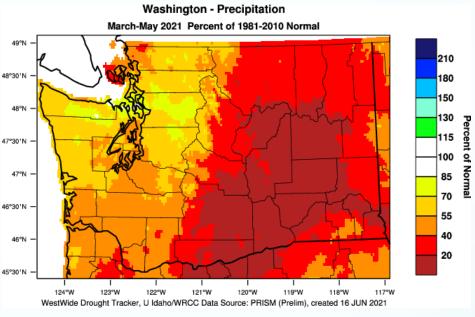


- Averaged statewide, WY 2021 warmer than normal (+0.8°F), tying as 18th warmest*
- Averaged statewide, below normal precipitation for WY 2021 (-2.75"); Lower Columbia Basin in area below 75% of normal ranks in the bottom 10%

Spring 2021

Departure from Normal Precipitation (in) 3/1/2021 - 5/31/2021





Averaged statewide, 2nd driest spring on record (-5.32");
 driest spring was back in 1924

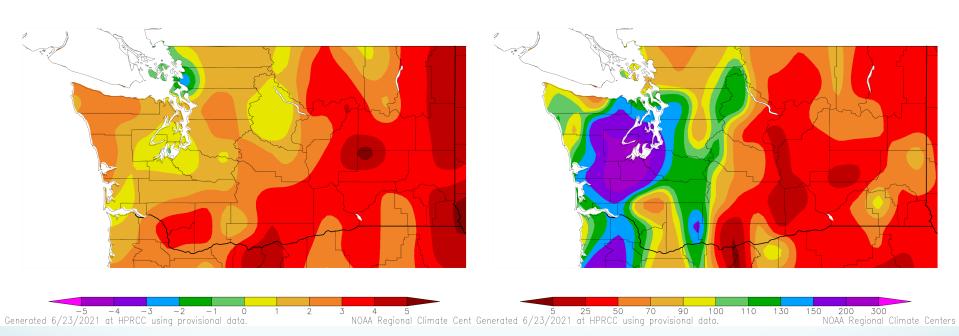
June 2021

Temperature

Departure from Normal Temperature (F) 6/1/2021 - 6/22/2021

Precipitation

Percent of Normal Precipitation (%) 6/1/2021 - 6/22/2021



U.S. Drought Monitor Washington

June 22, 2021

(Released Thursday, Jun. 24, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	8.32	28.10	17.71	21.03	24.84	0.00
Last Week 06-15-2021	8.32	28.10	17.79	22.75	23.03	0.00
3 Months Ago 03-23-2021	73.45	16.57	6.19	3.79	0.00	0.00
Start of Calendar Year 12-29-2020	59.23	21.47	10.37	6.25	2.67	0.00
Start of Water Year 09-29-2020	37.23	19.24	26.50	10.90	6.12	0.00
One Year Ago 06-23-2020	58.72	14.60	11.78	14.90	0.00	0.00

Intensity:

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate 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:

Curtis Riganti National Drought Mitigation Center



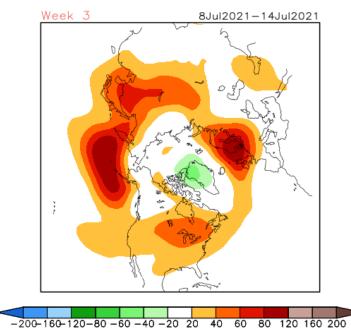


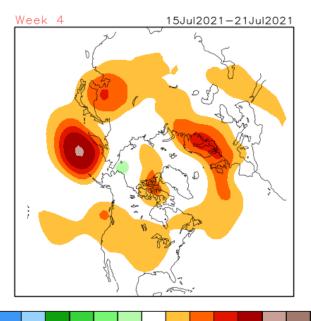




droughtmonitor.unl.edu

CFSv2 Weeks 3 & 4 500 hPa Z Anomalies (m) 16 Member Ensemble Mean Forecast from 23Jun2021





40

60 80 120 160 200

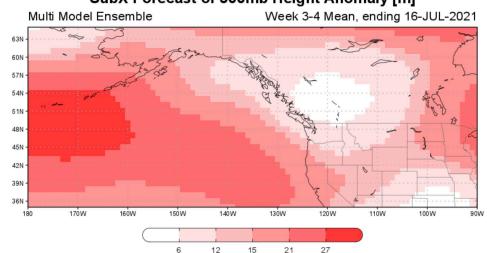
-200-160-120-80 -60 -40 -20 20

Latest Set of Week 3-4 Forecasts from CFSv2

Positive 500 hPa height anomalies indicate warm and dry conditions are more likely for the Pacific NW, especially east of the Cascade Mountains.

Model Runs from last week

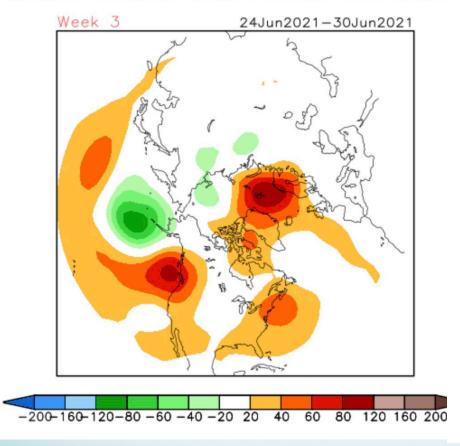


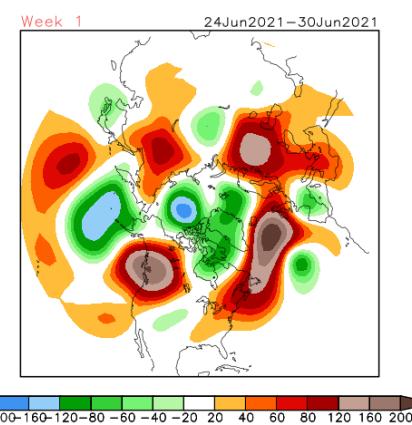


Extended Forecast

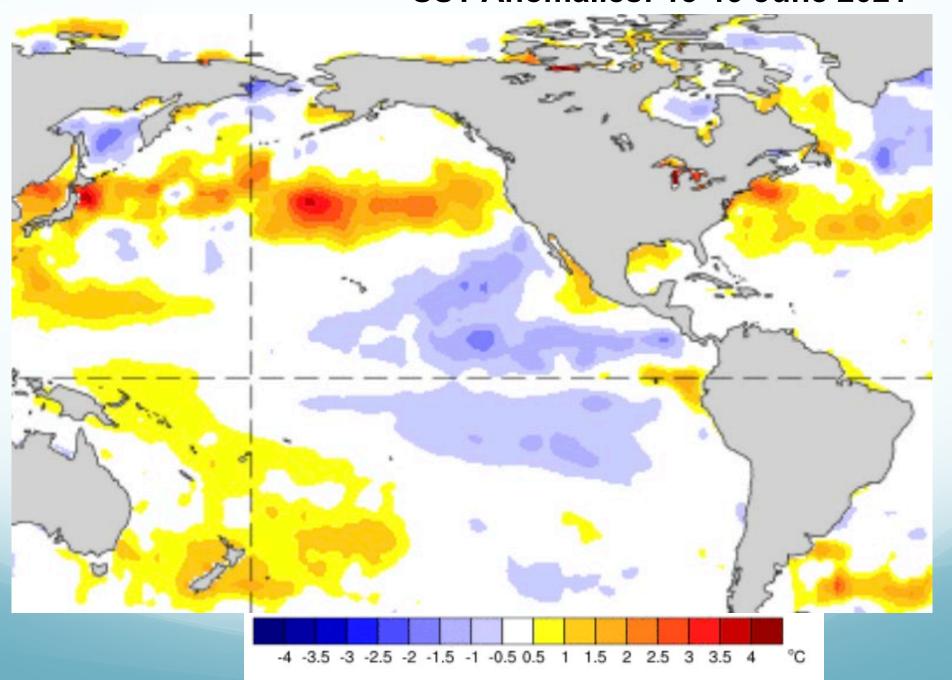
Shorter-Term Forecast







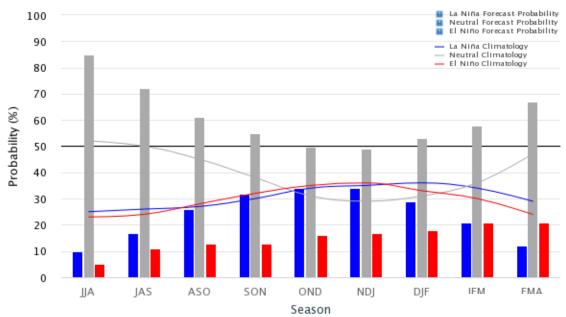
SST Anomalies: 13-19 June 2021

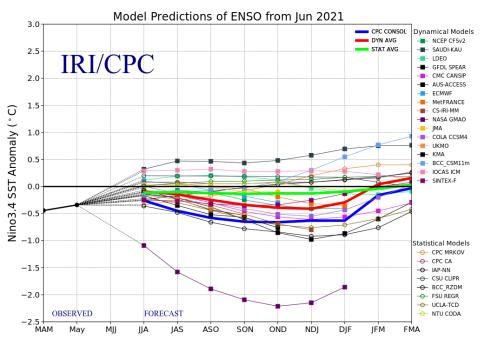


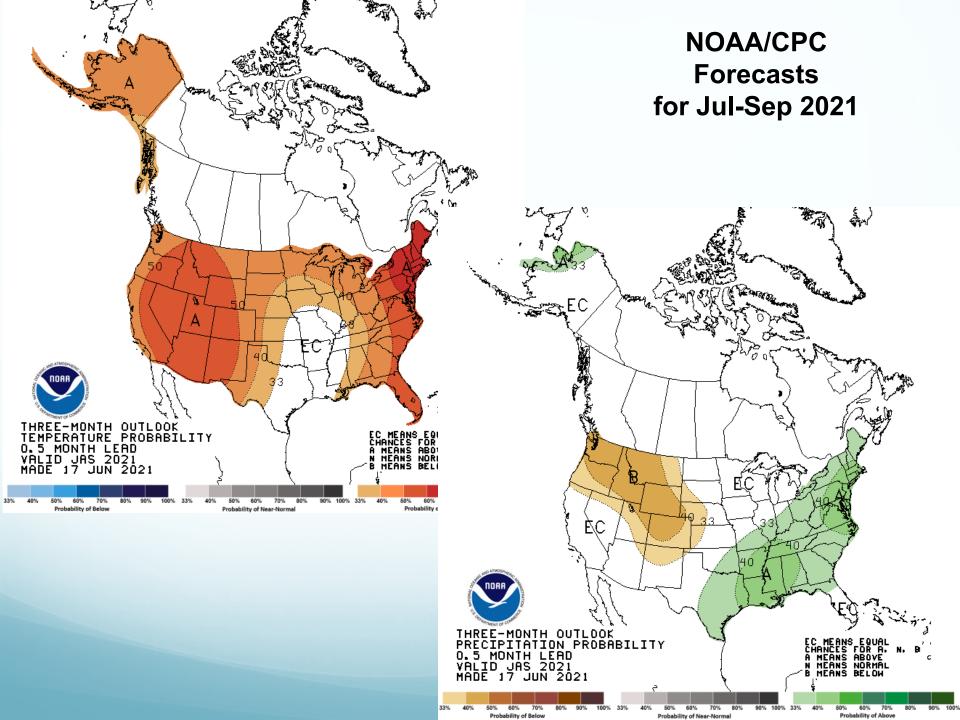
Mid-June 2021 IRI/CPC Model-Based Probabilistic ENSO Forecasts

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

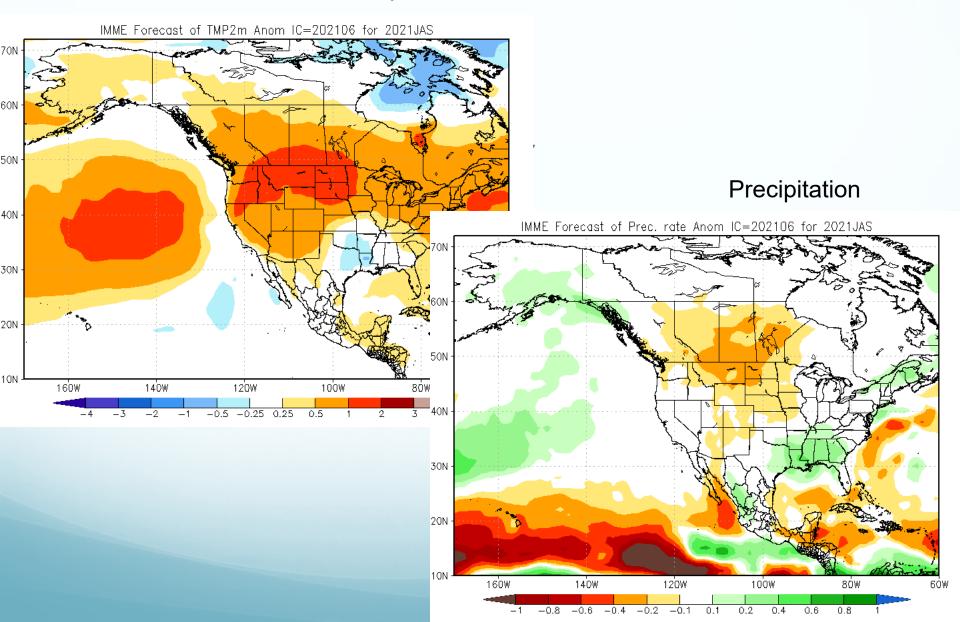
ENSO Predictions







Air Temperature



Final Remarks

- Water year 2021 has had above-average temperatures for most of WA, with below normal precipitation except for the north-central Cascades
- The lower elevations of eastern WA are in extreme drought, with some substantial impacts
- I am concerned that we may be in for an extended interval of hot temperatures across the Pacific NW
- Regarding the heat wave that is cranking up, perhaps I should arrange to get paid for media interviews on a commission basis...

Jeff: Do you want to share an agent?