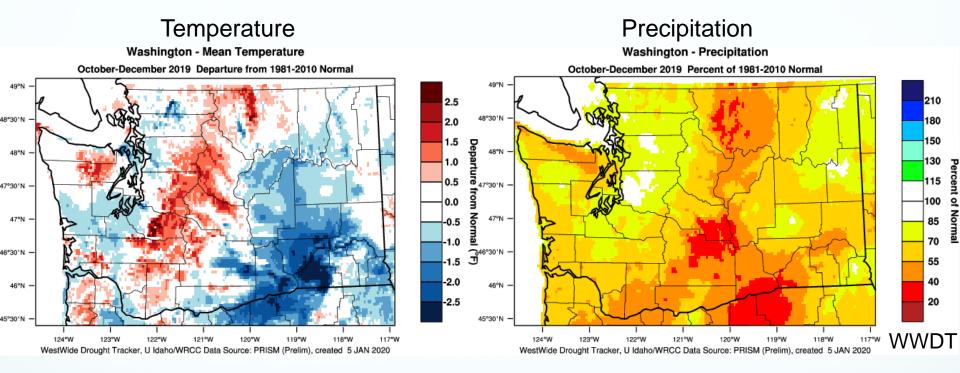
Regional Climate Perspective

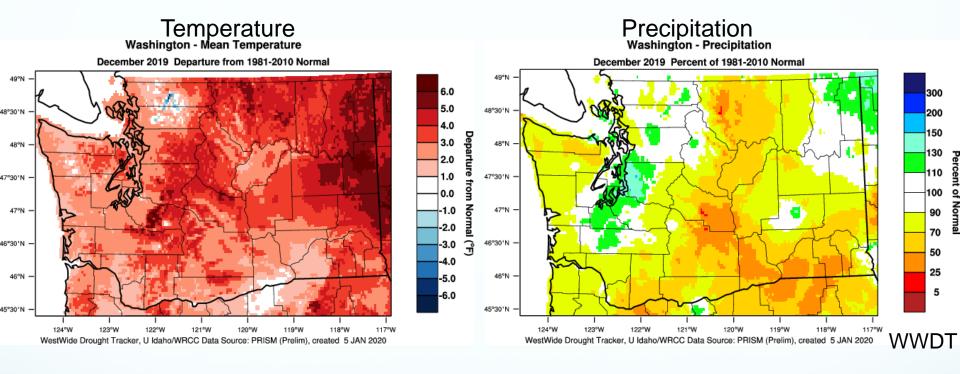
Nick Bond & Karin Bumbaco
Office of the Washington State Climatologist
Joint Institute for the Study of Atmosphere and Ocean
University of Washington
24 January 2020

2020 Water Year



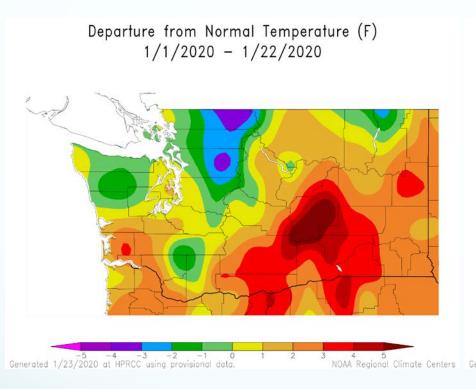
- Averaged statewide, near-normal temperatures (+0.1°F) but with obvious spatial variability
- Averaged statewide, WY 2020 precipitation is the 13th driest* on record (-5.52"; 67% of normal)

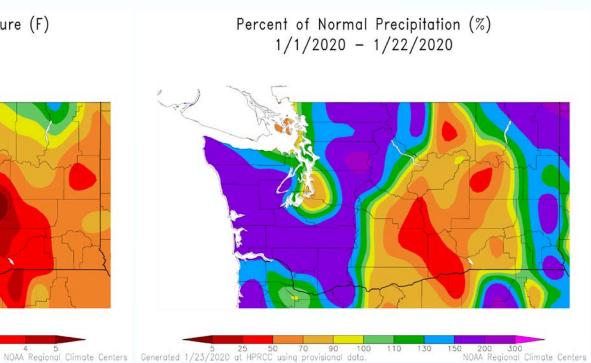
December 2019



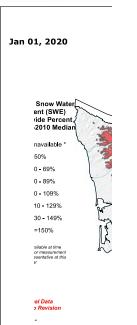
- Above normal Dec temperatures (+3.5°F averaged statewide); in the upper third of the historical record
- Averaged statewide, December precipitation anomalies balance to some extent (-0.70" averaged statewide)

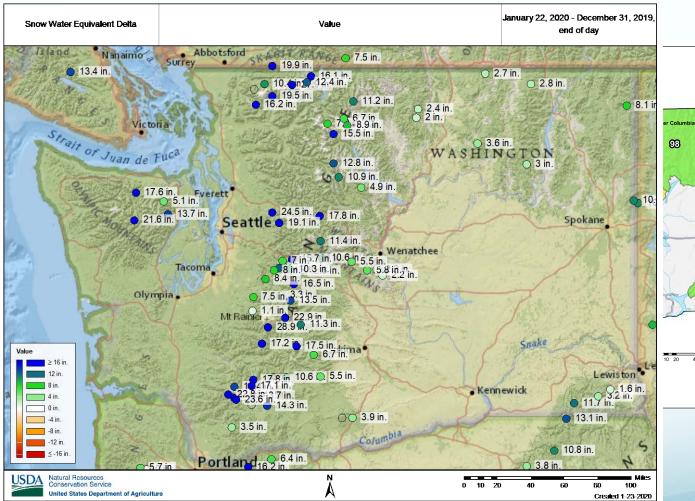
January 2020 so far





Huge Improvement in Snow



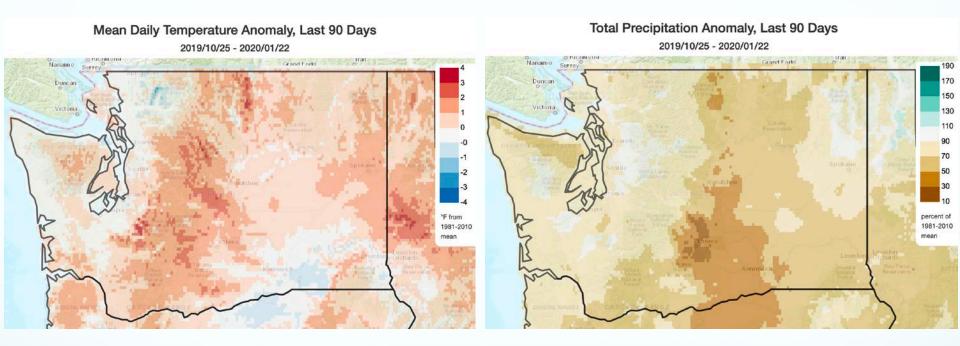


1000

95

Lower Snake

Last 90 Days



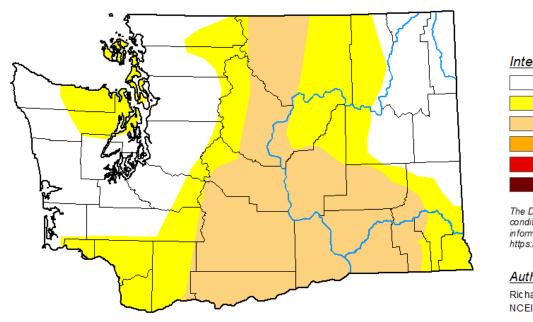
 January improved WY-to-date precipitation in some locations, but still below normal in eastern WA

US Drought Monitor

U.S. Drought Monitor Washington

January 21, 2020

(Released Thursday, Jan. 23, 2020) Valid 7 a.m. EST



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:

Richard Heim NCEI/NOAA



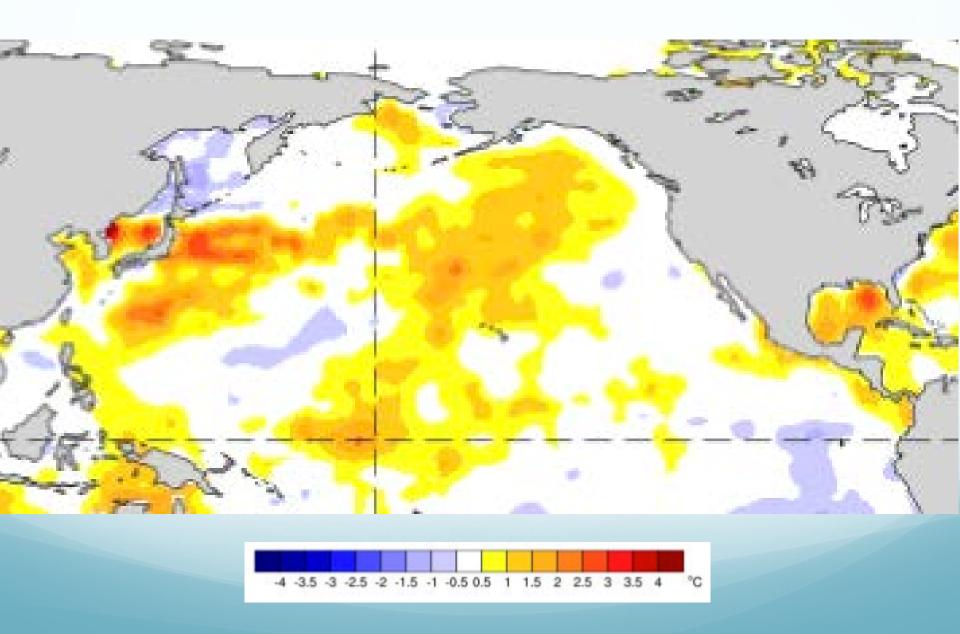


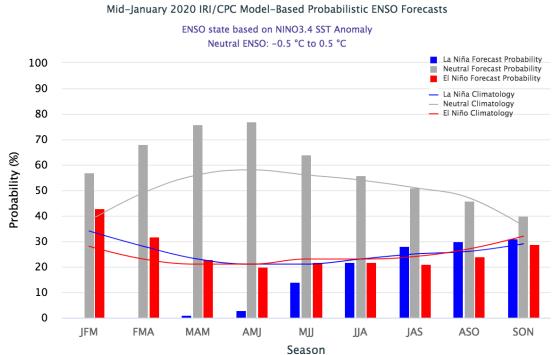




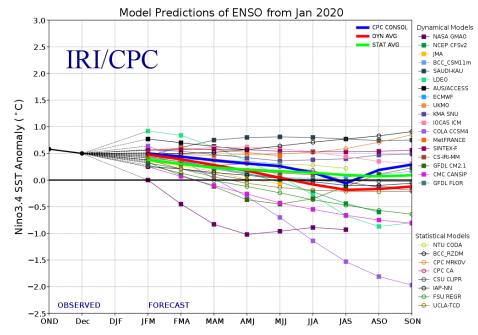
droughtmonitor.unl.edu

Sea Surface Temperature Anomalies 12-18 January 2020



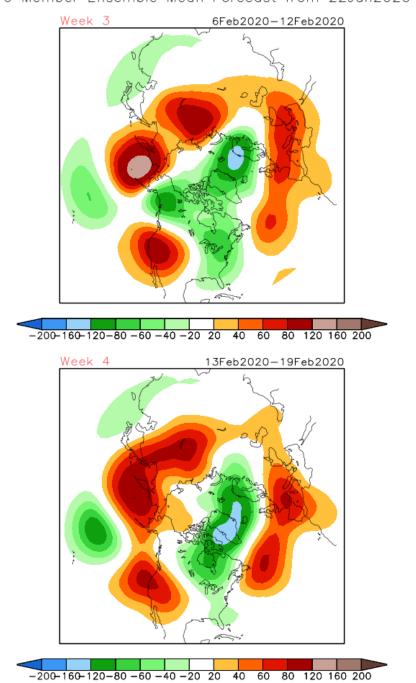


El Niño/La Niña Forecasts Indicate Elevated Odds of Near-Neutral Conditions through Summer 2020



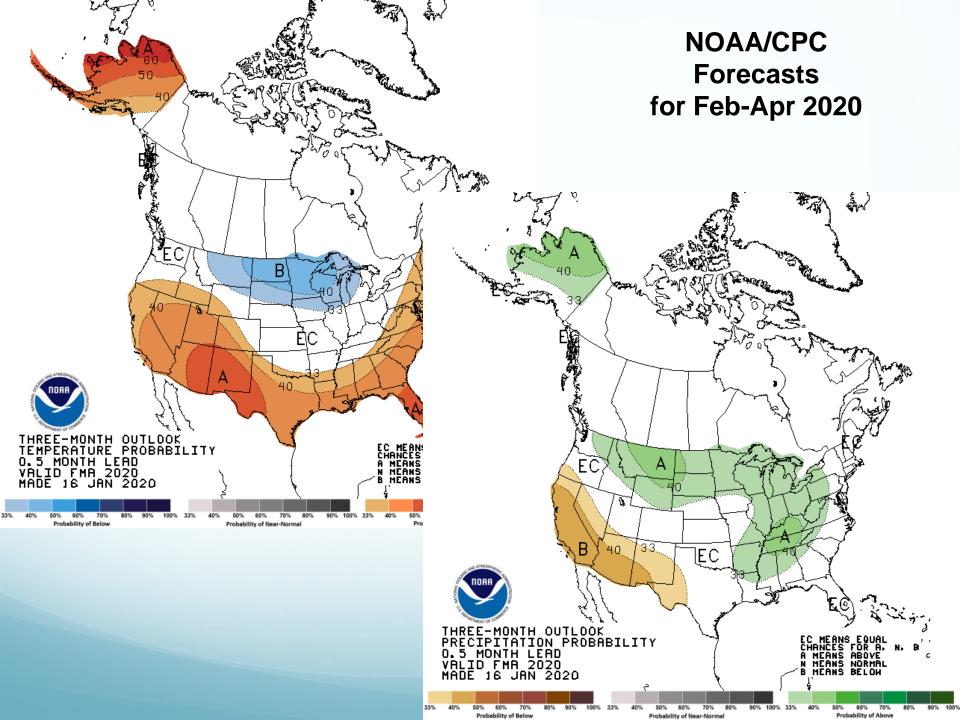
CFSv2 Weeks 3 & 4 500 hPa Z Anomalies (m)

16 Member Ensemble Mean Forecast from 22Jan2020



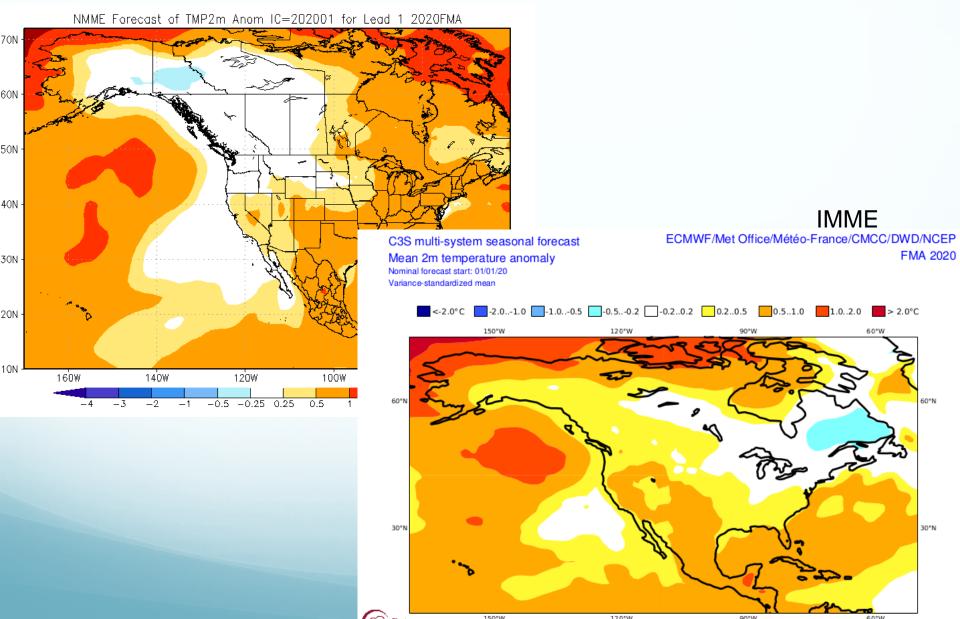
Latest Set of Week 3-4 Forecasts from CFSv2

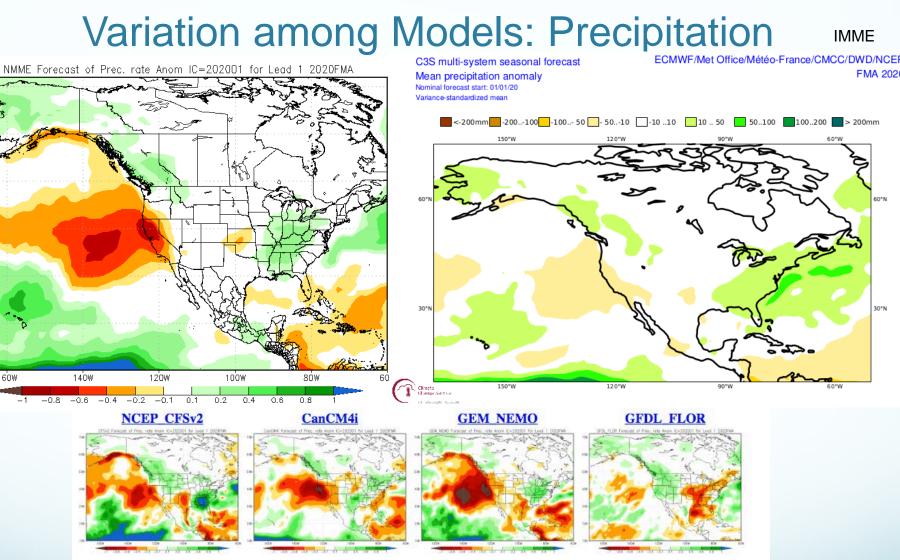
Anomalously high 500 hPa Z over west coast of lower 48 states: Stronger than normal onshore-directed flow and relatively warm and wet weather for WA

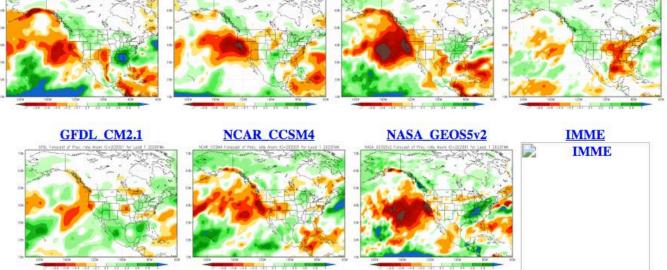


Climate Model Ensemble Projections for FMA Temperature from Jan 2020









40N

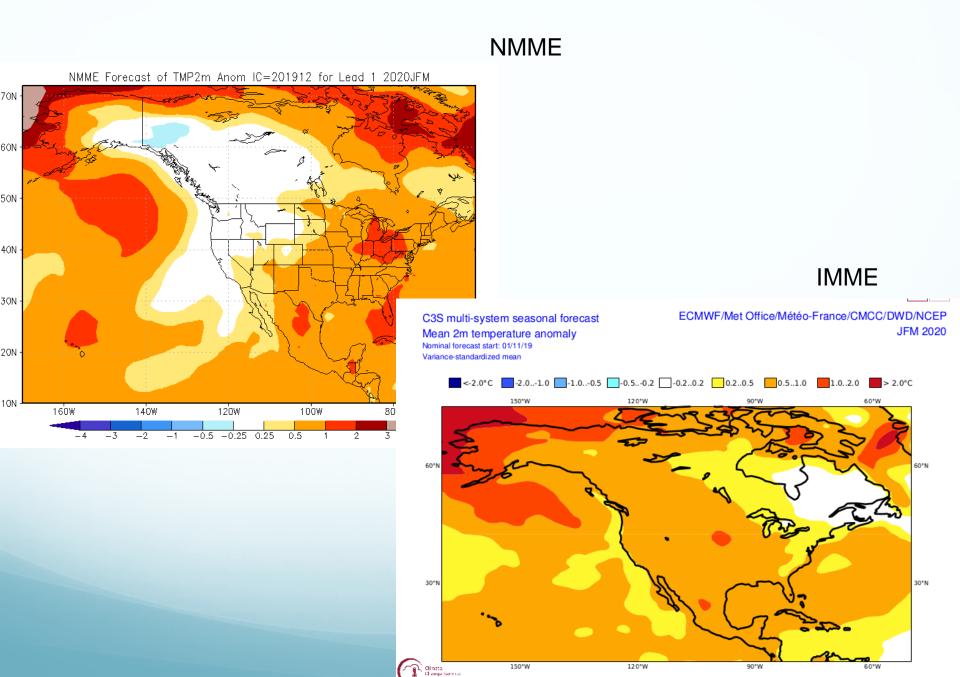
30N

20N

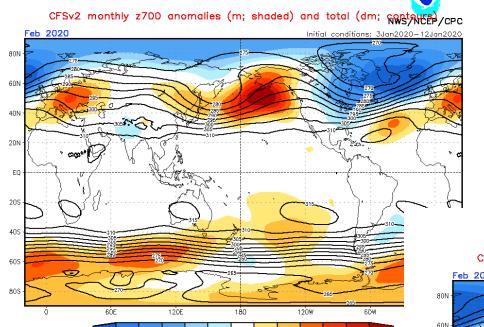
10N

160W

Climate Model Ensemble Projections for JFM Temperature from Dec 2019

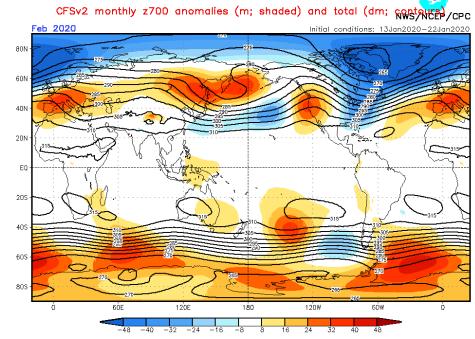


Early January Model Runs



Latest Simulations From NOAA's CFS Model Indicate a Warmer February

Latest Model Runs



Final Remarks

- Water year 2020 still warm and dry despite the wetter than normal January in western WA
- Remarkable early January mountain snowfall that made great improvements
- ENSO not liable to be a significant player in the climate system during the next 6 months
- Expecting temperatures to run moderately above normal for the rest of winter into summer due to multi-year trends and climate model output
- My storm water system should continue to get challenged