

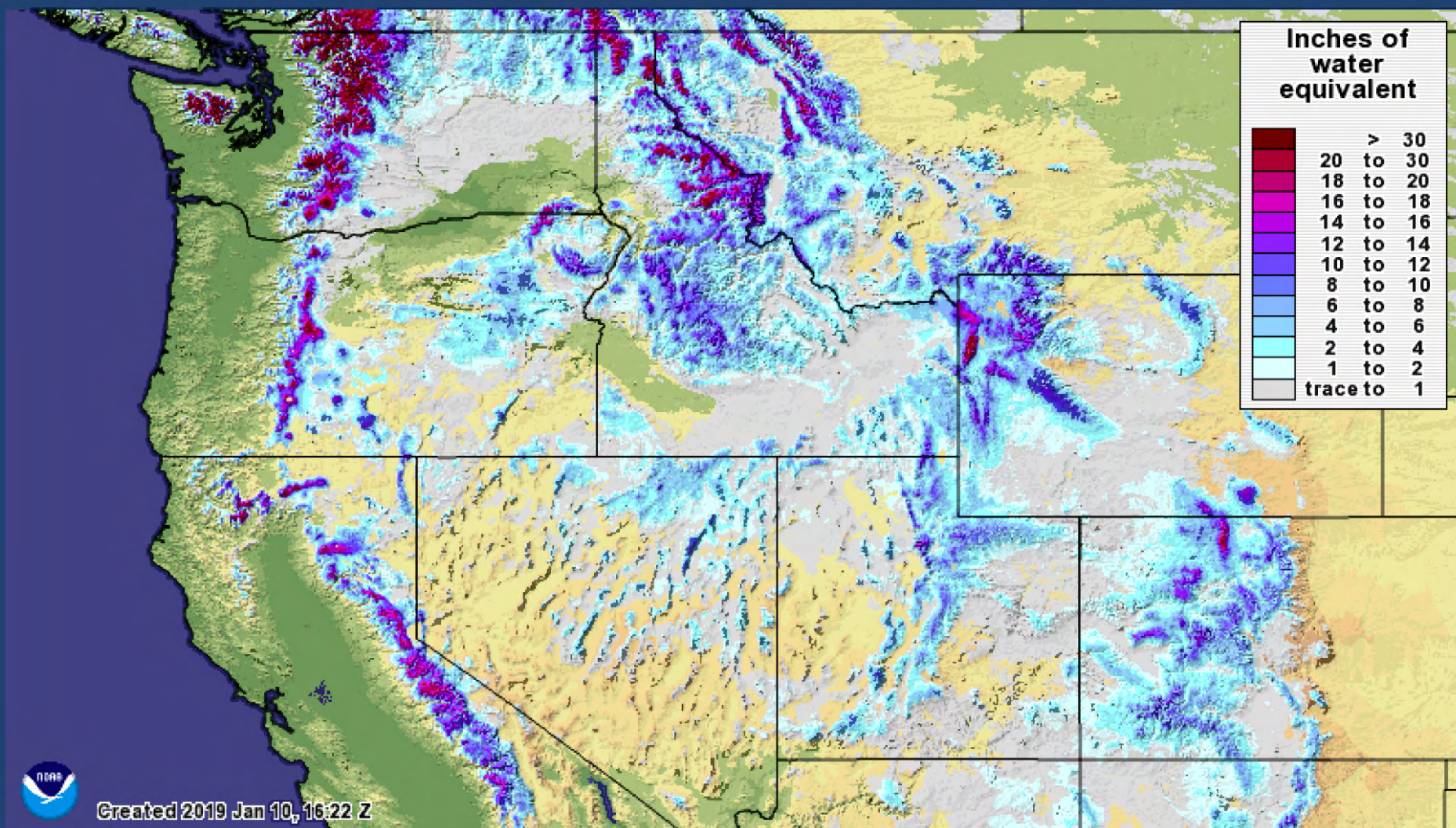
Weather & Climate Outlook

IDWR Water Supply Committee Meeting

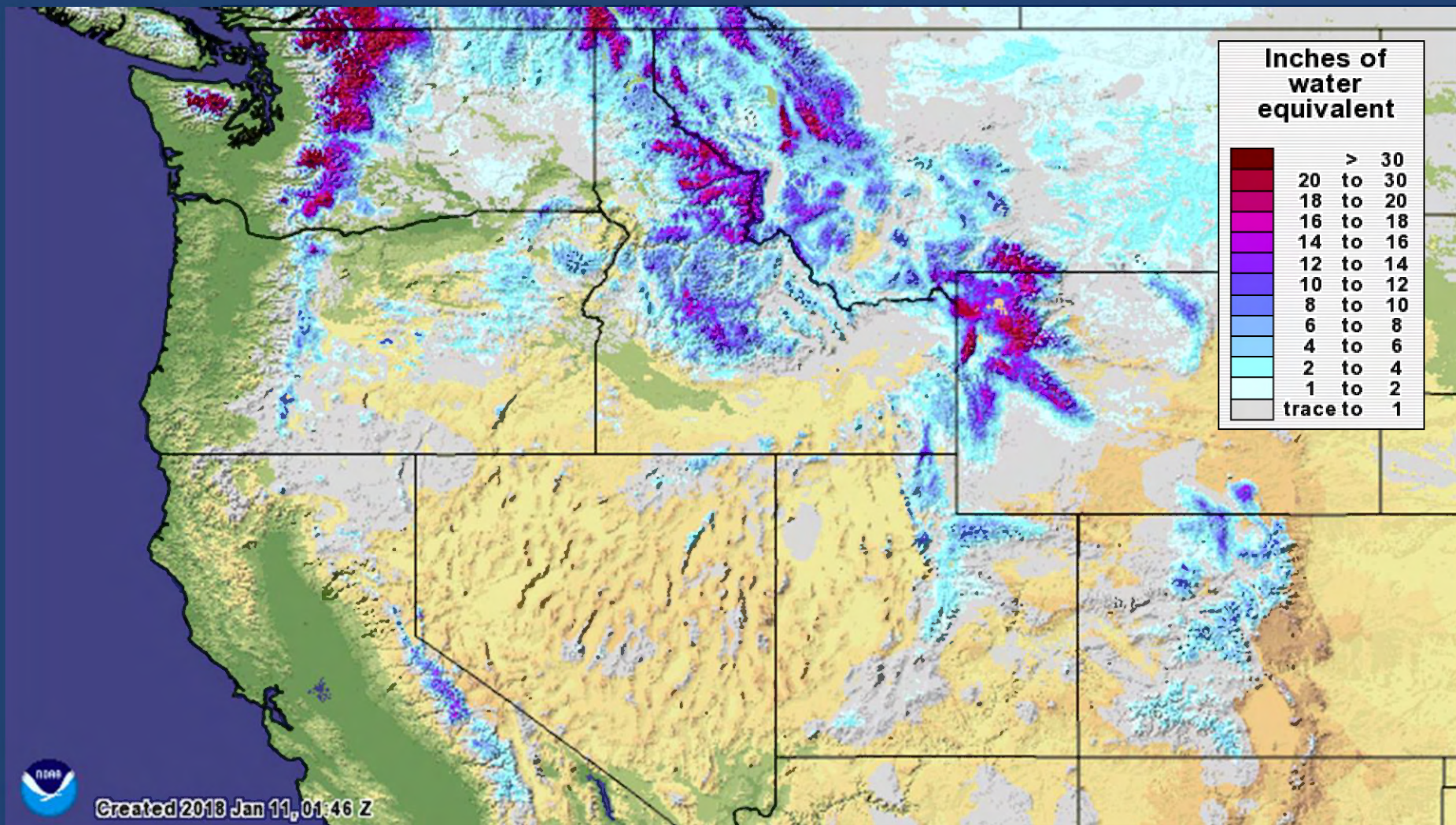
January 11, 2019



Current Snowpack



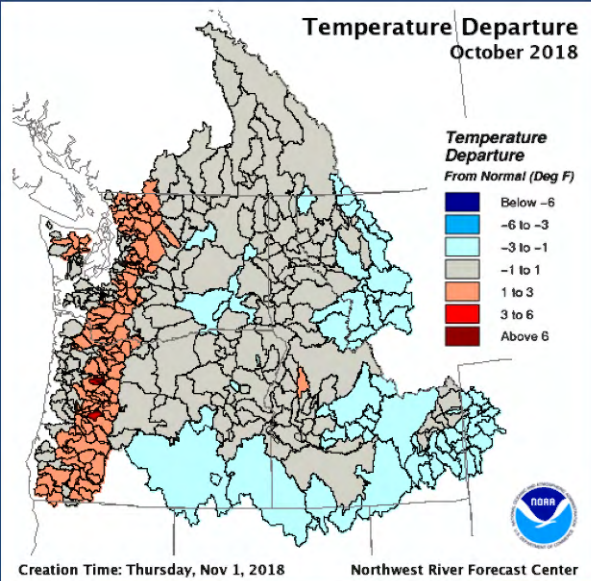
2018 Snowpack



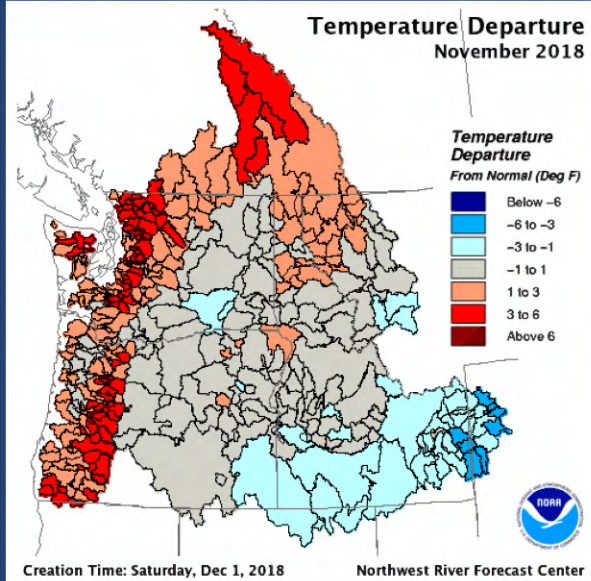
Monthly Temperatures

Water Year 2018 / 2019 Comparison

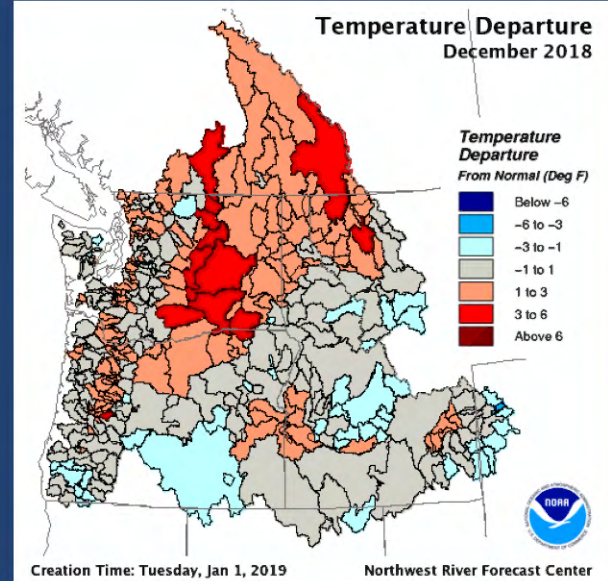
Temperature Departure
October 2018



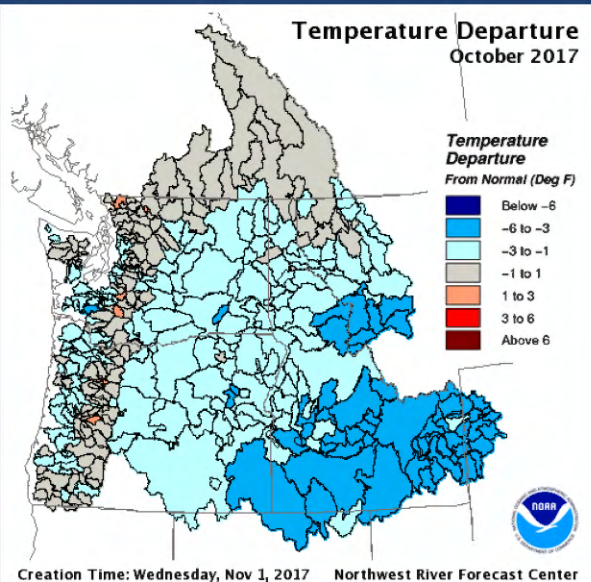
Temperature Departure
November 2018



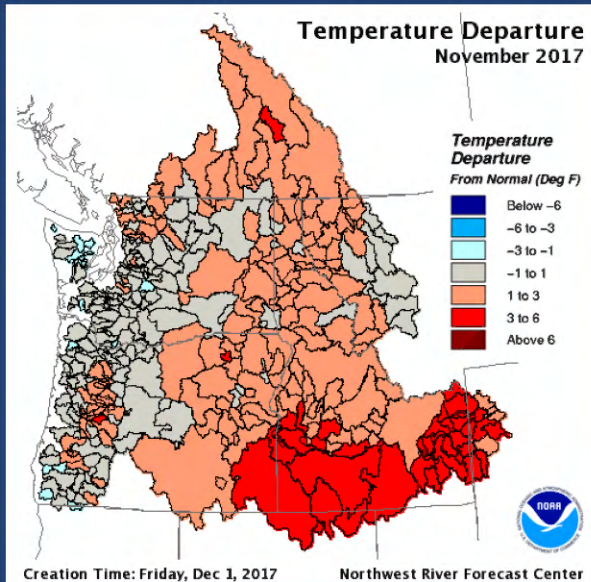
Temperature Departure
December 2018



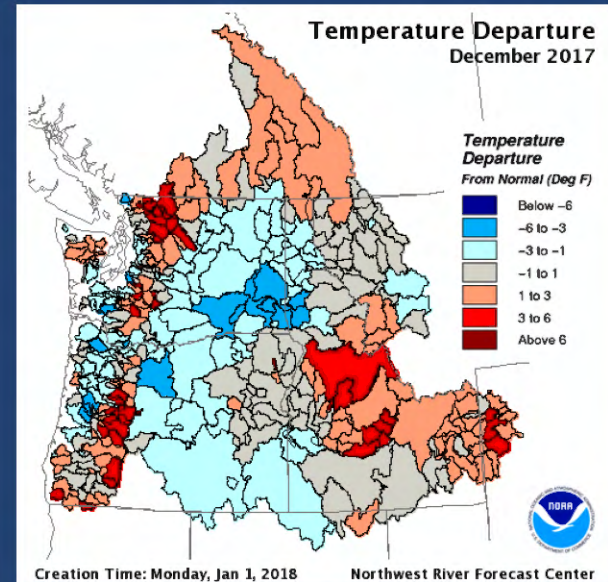
Temperature Departure
October 2017



Temperature Departure
November 2017



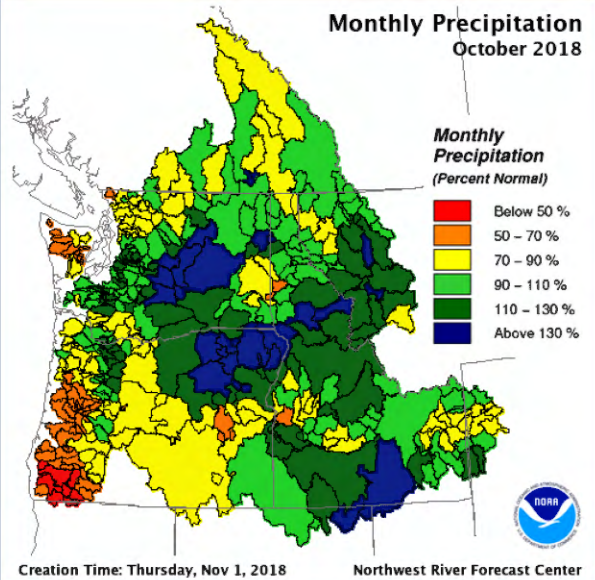
Temperature Departure
December 2017



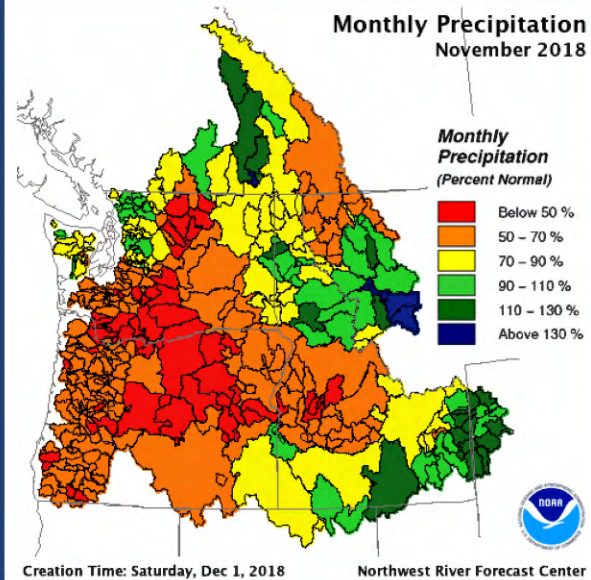
Monthly Precipitation

Water Year 2018 / 2019 Comparison

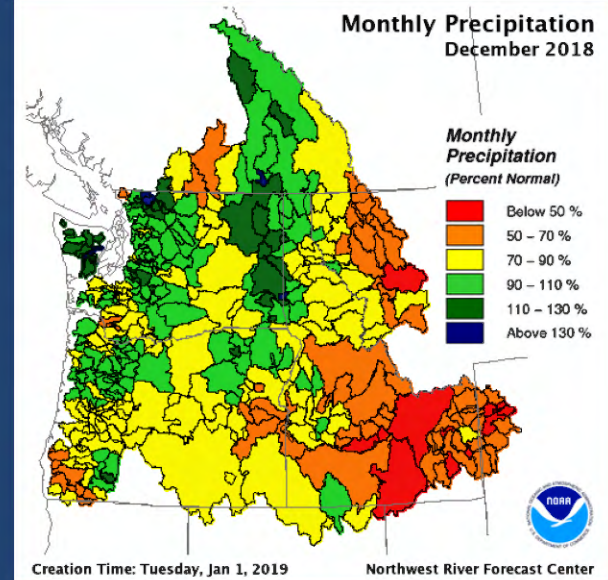
Monthly Precipitation
October 2018



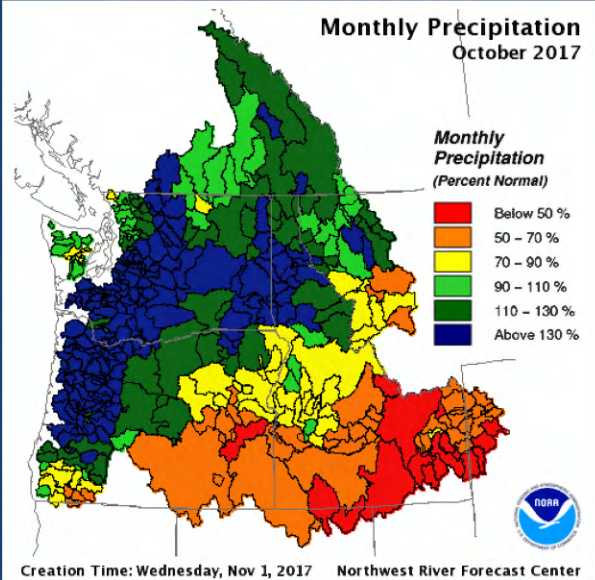
Monthly Precipitation
November 2018



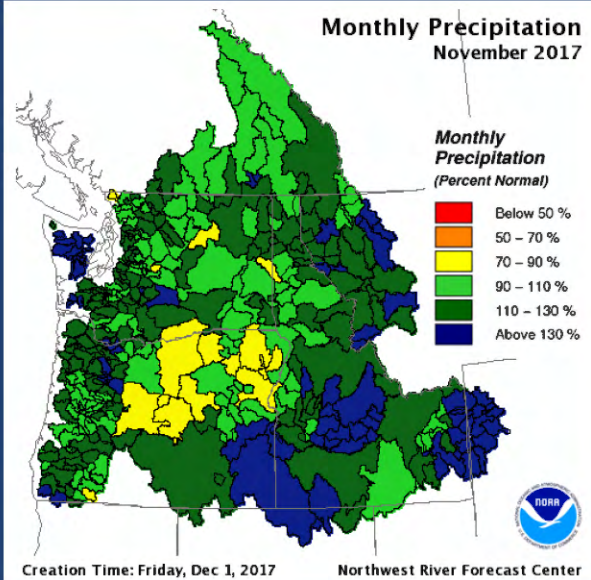
Monthly Precipitation
December 2018



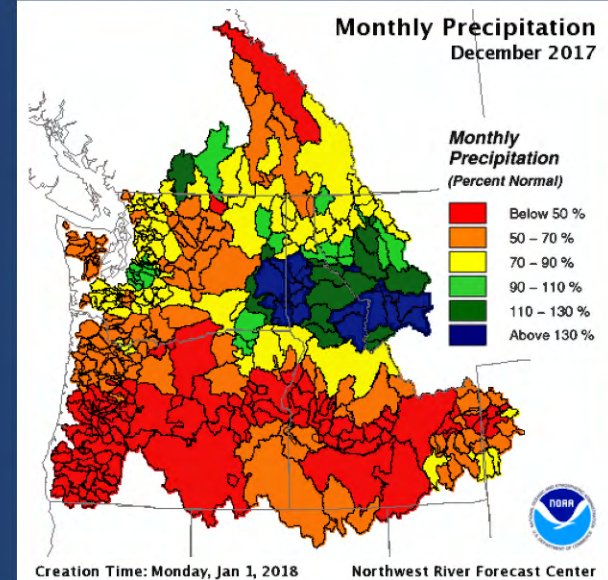
Monthly Precipitation
October 2017



Monthly Precipitation
November 2017

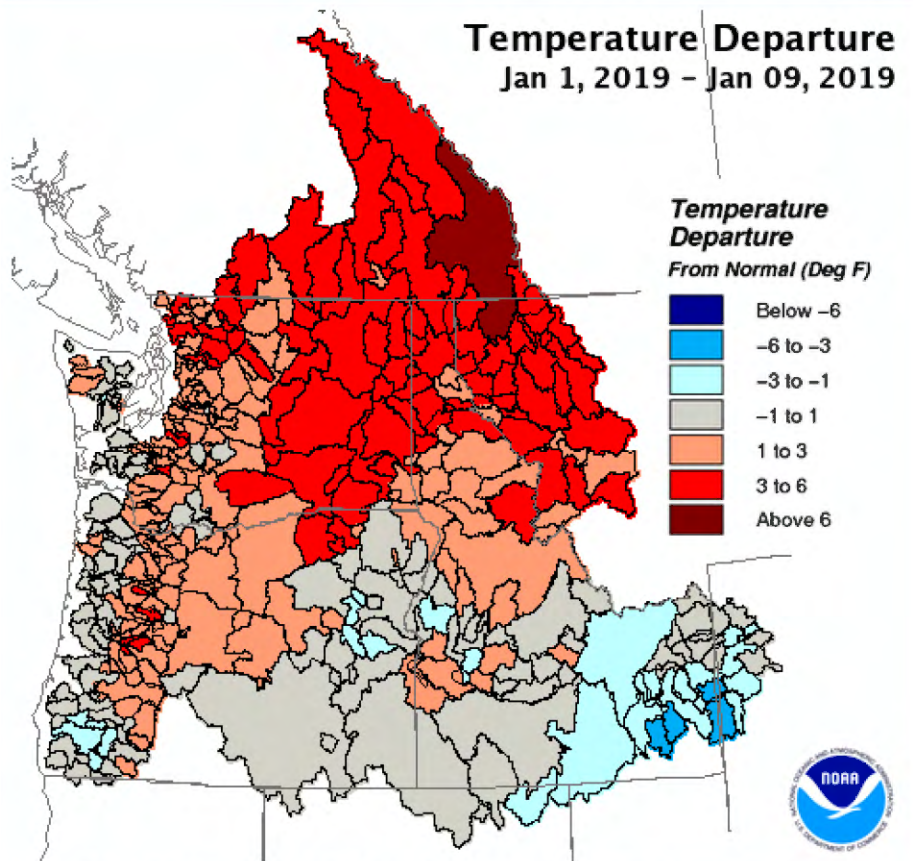


Monthly Precipitation
December 2017



Temperature & Precipitation January, 2019

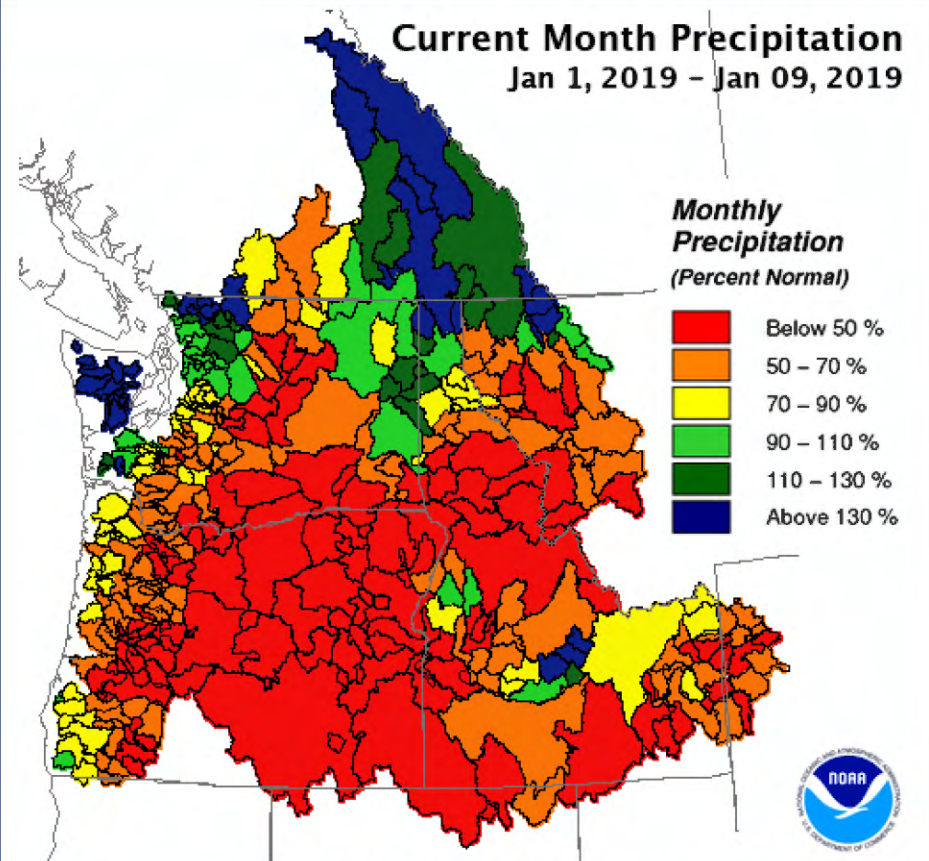
Temperature Departure
Jan 1, 2019 - Jan 09, 2019



Creation Time: Thursday, Jan 10, 2019

Northwest River Forecast Center

Current Month Precipitation
Jan 1, 2019 - Jan 09, 2019

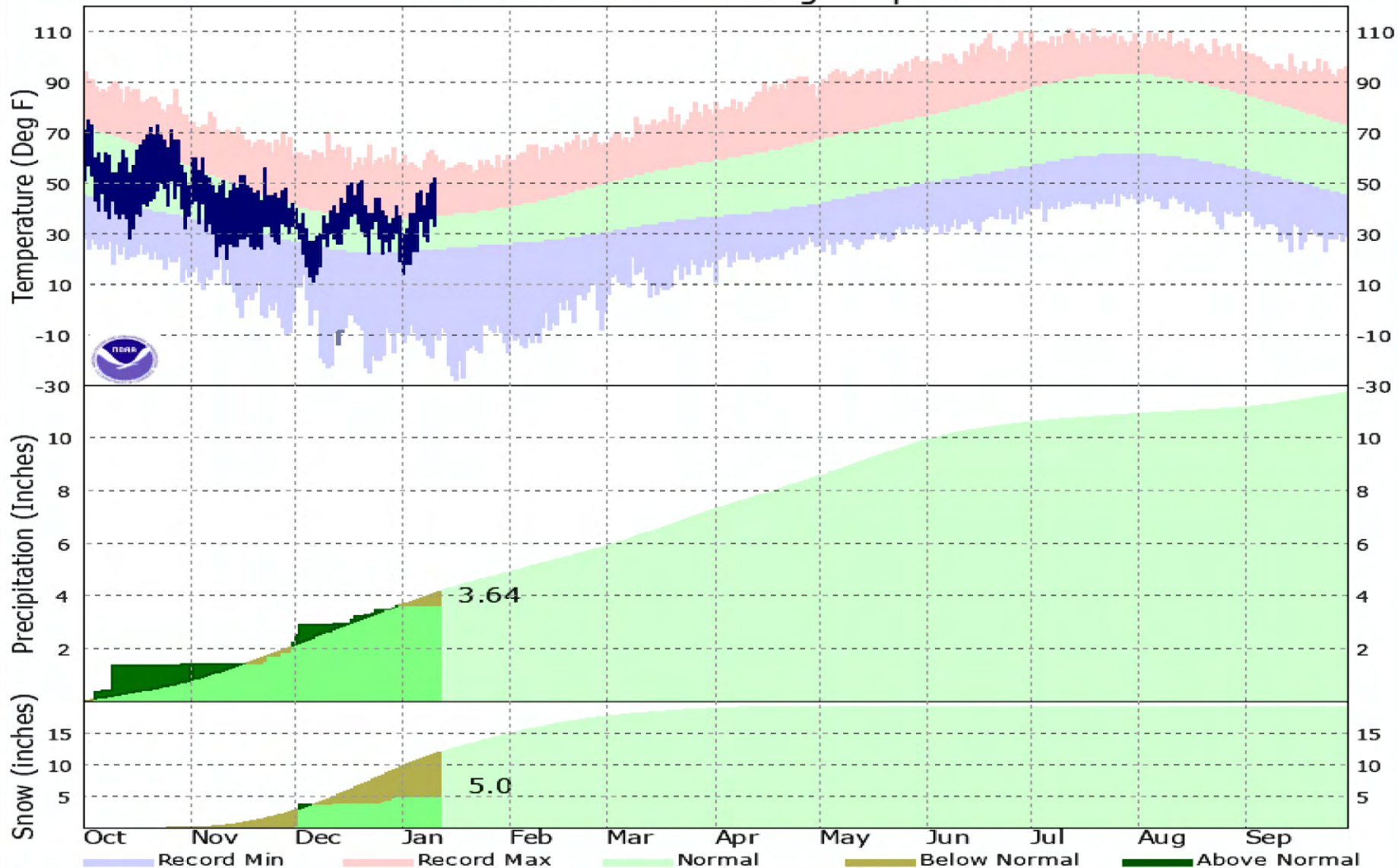


Creation Time: Thursday, Jan 10, 2019

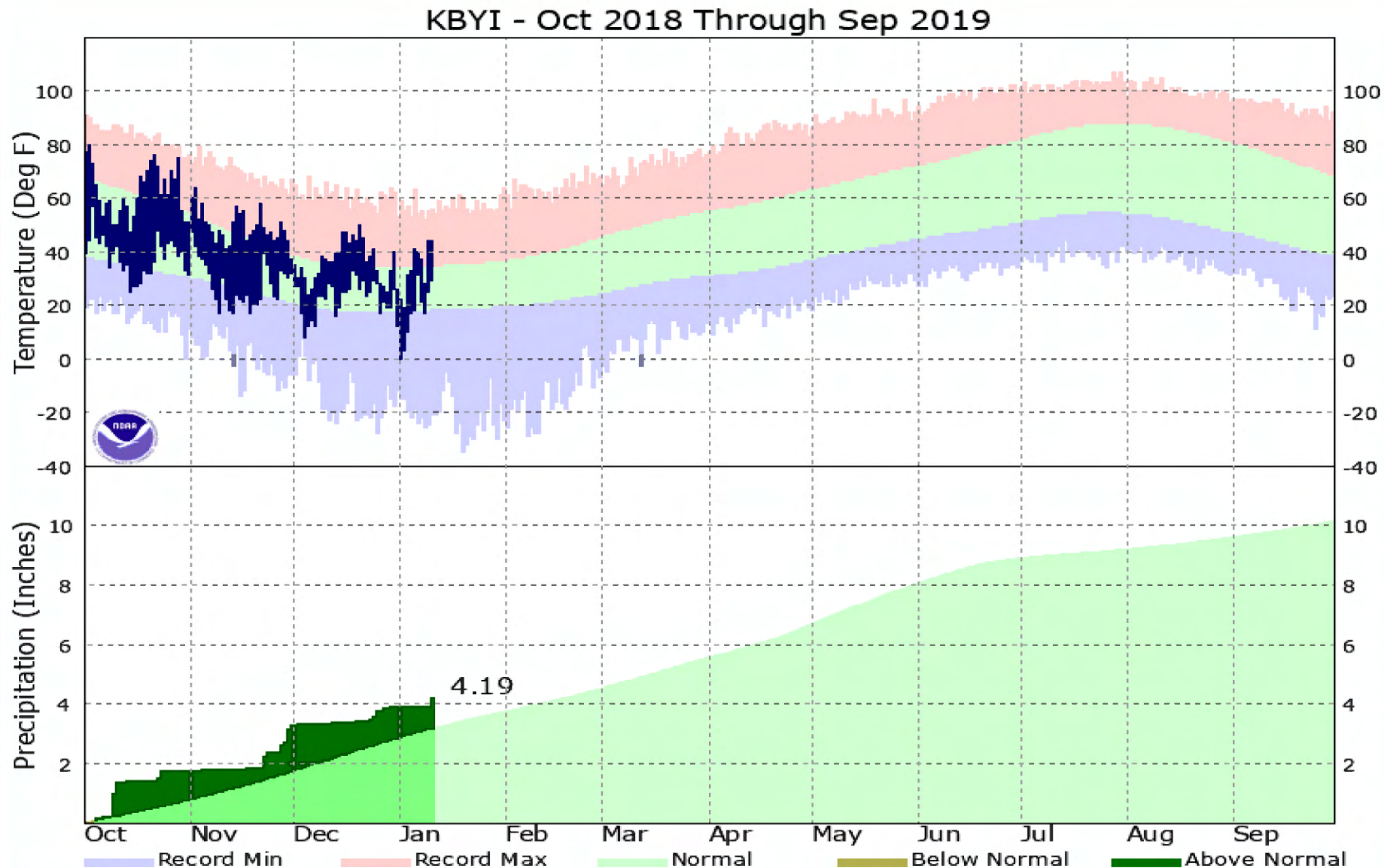
Northwest River Forecast Center

Temperature and Precipitation at Boise

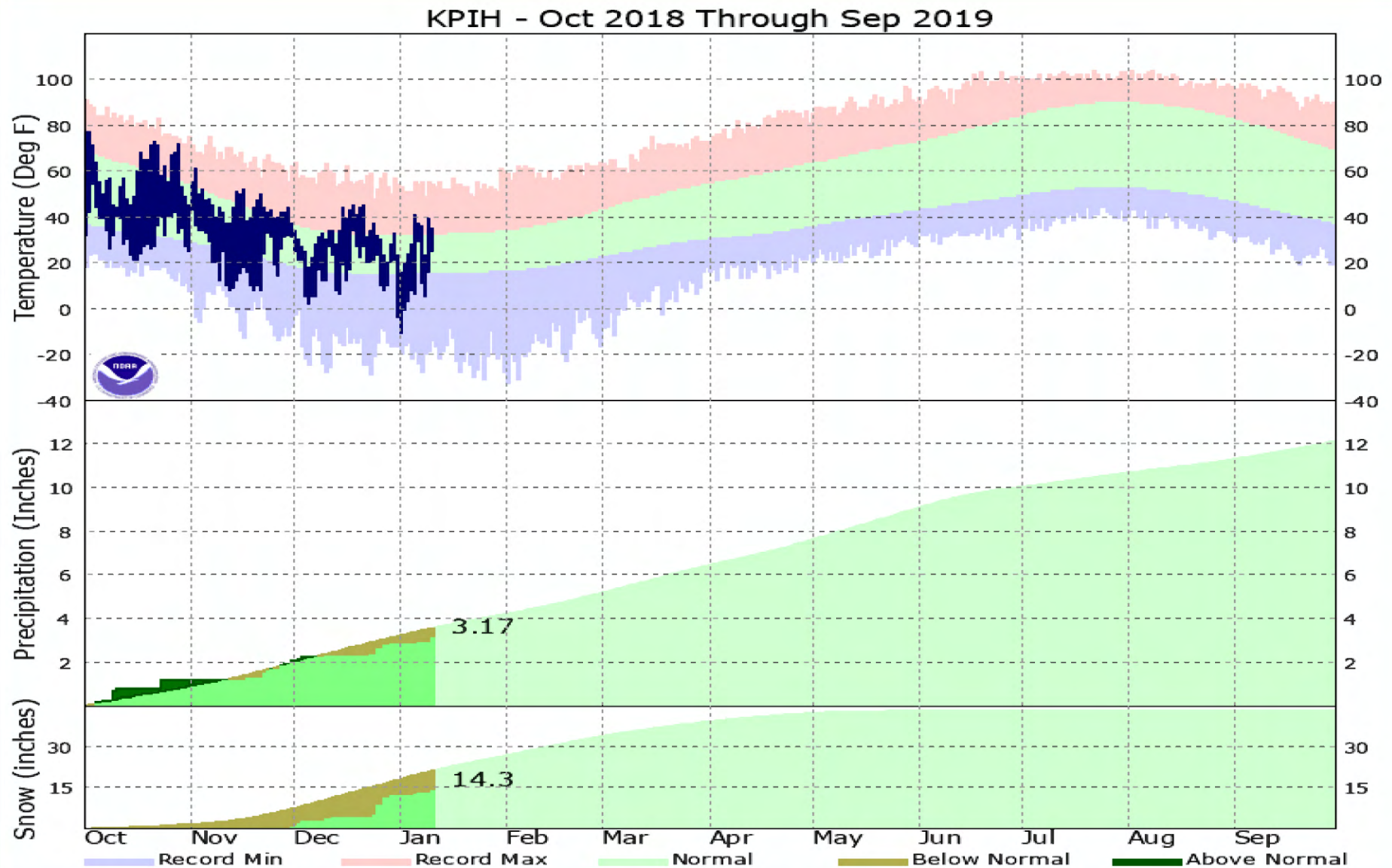
KBOI - Oct 2018 Through Sep 2019



Temperature and Precipitation at Burley

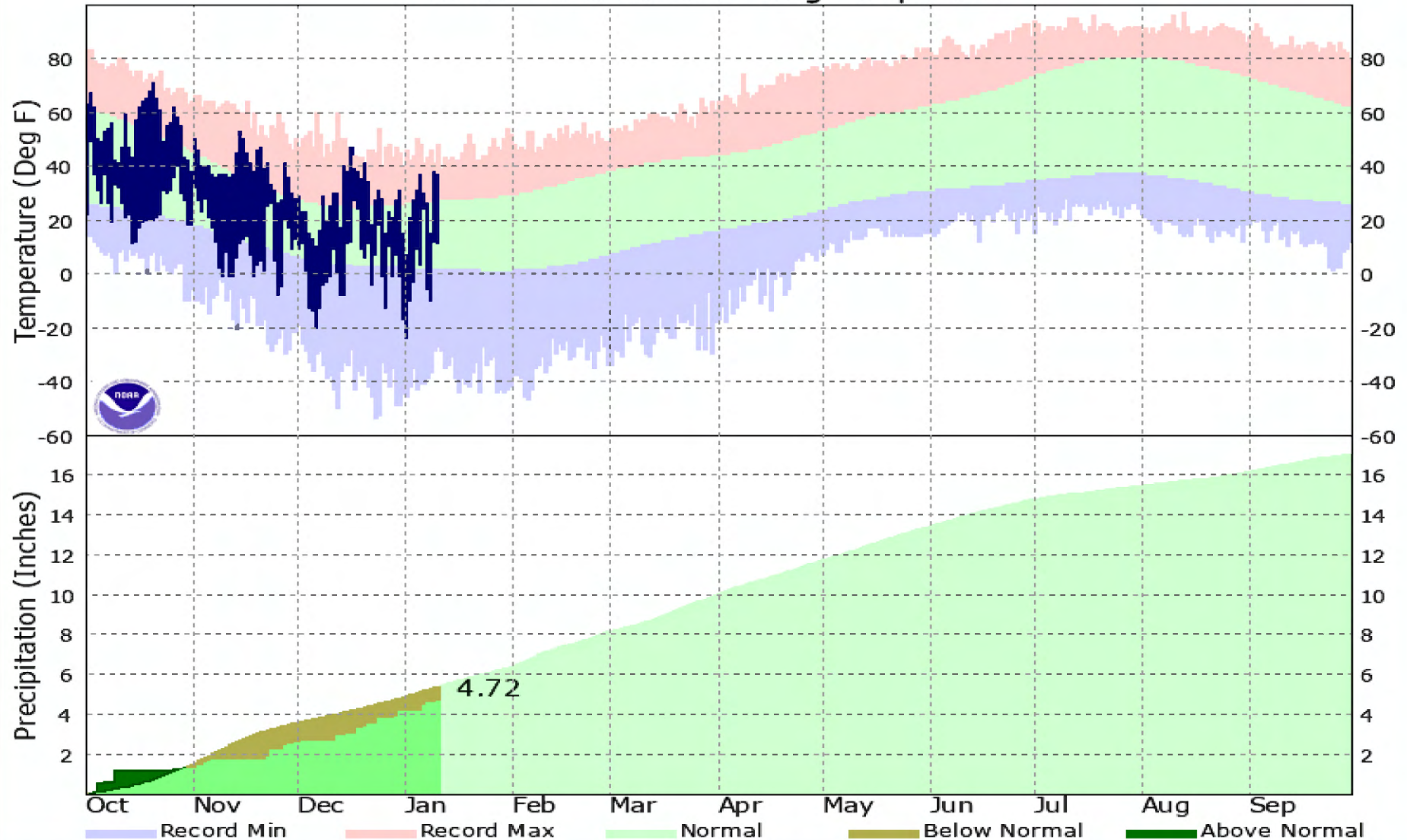


Temperature and Precipitation at Pocatello



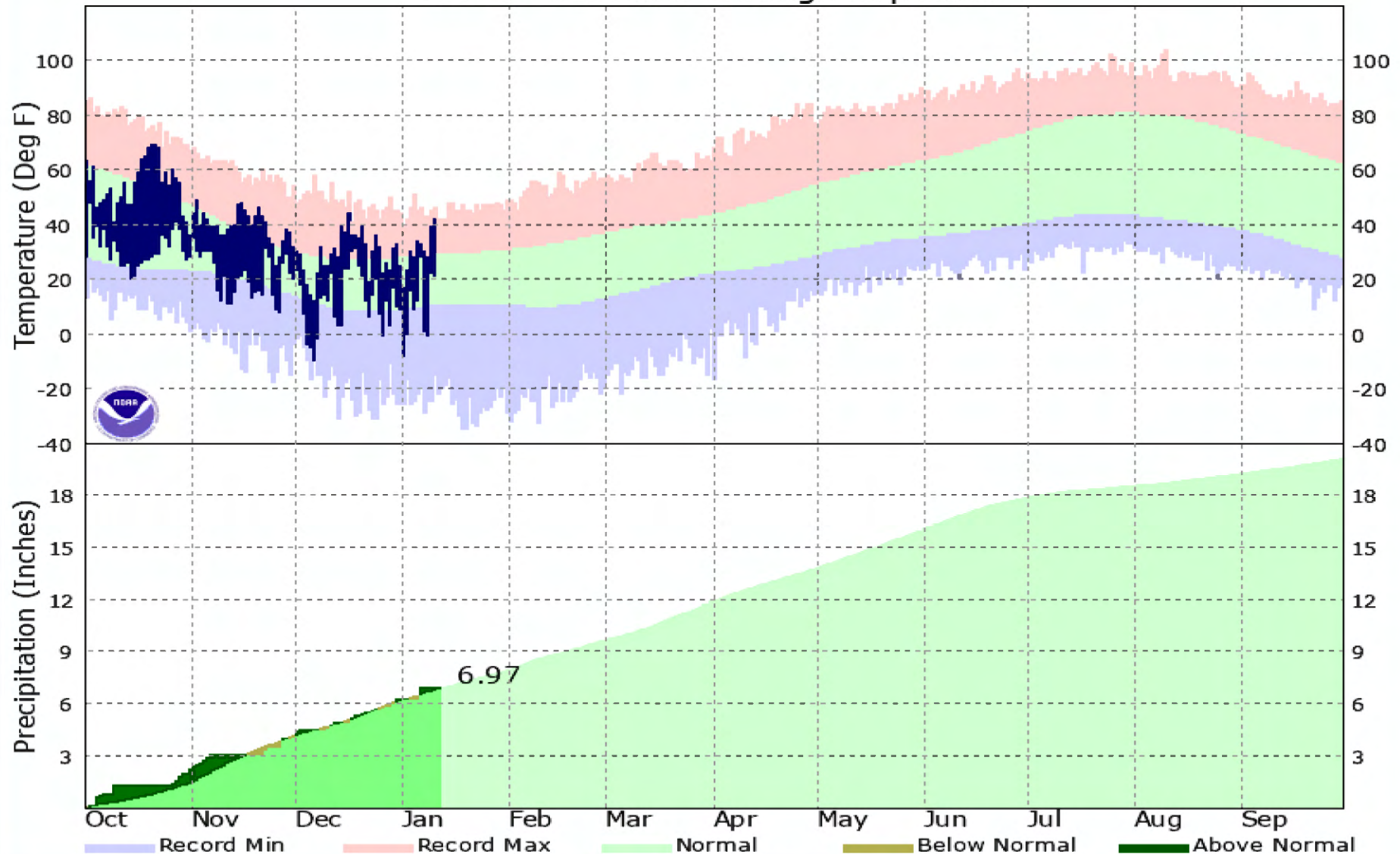
Temperature and Precipitation at Stanley

KSNT - Oct 2018 Through Sep 2019

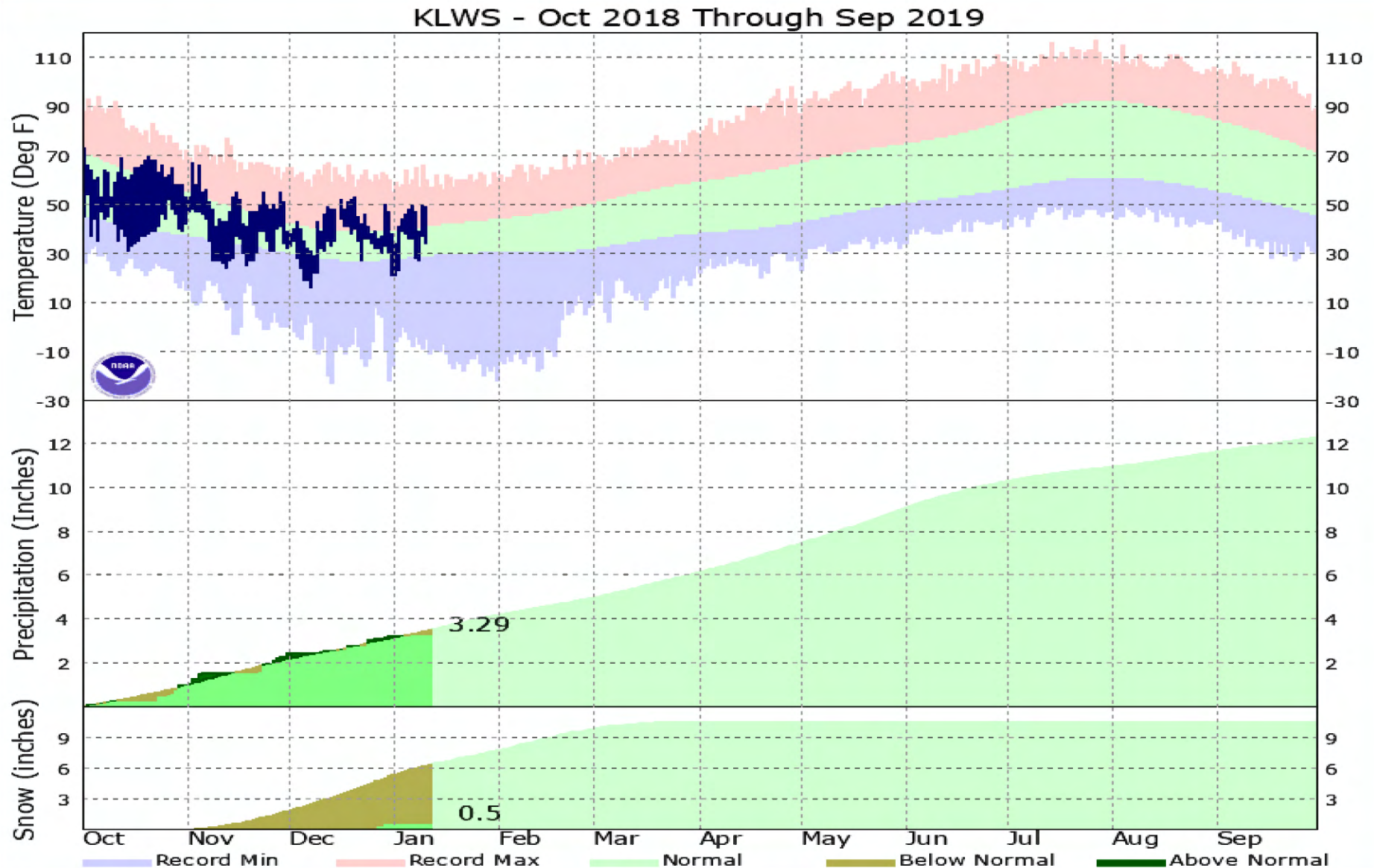


Temperature and Precipitation at McCall

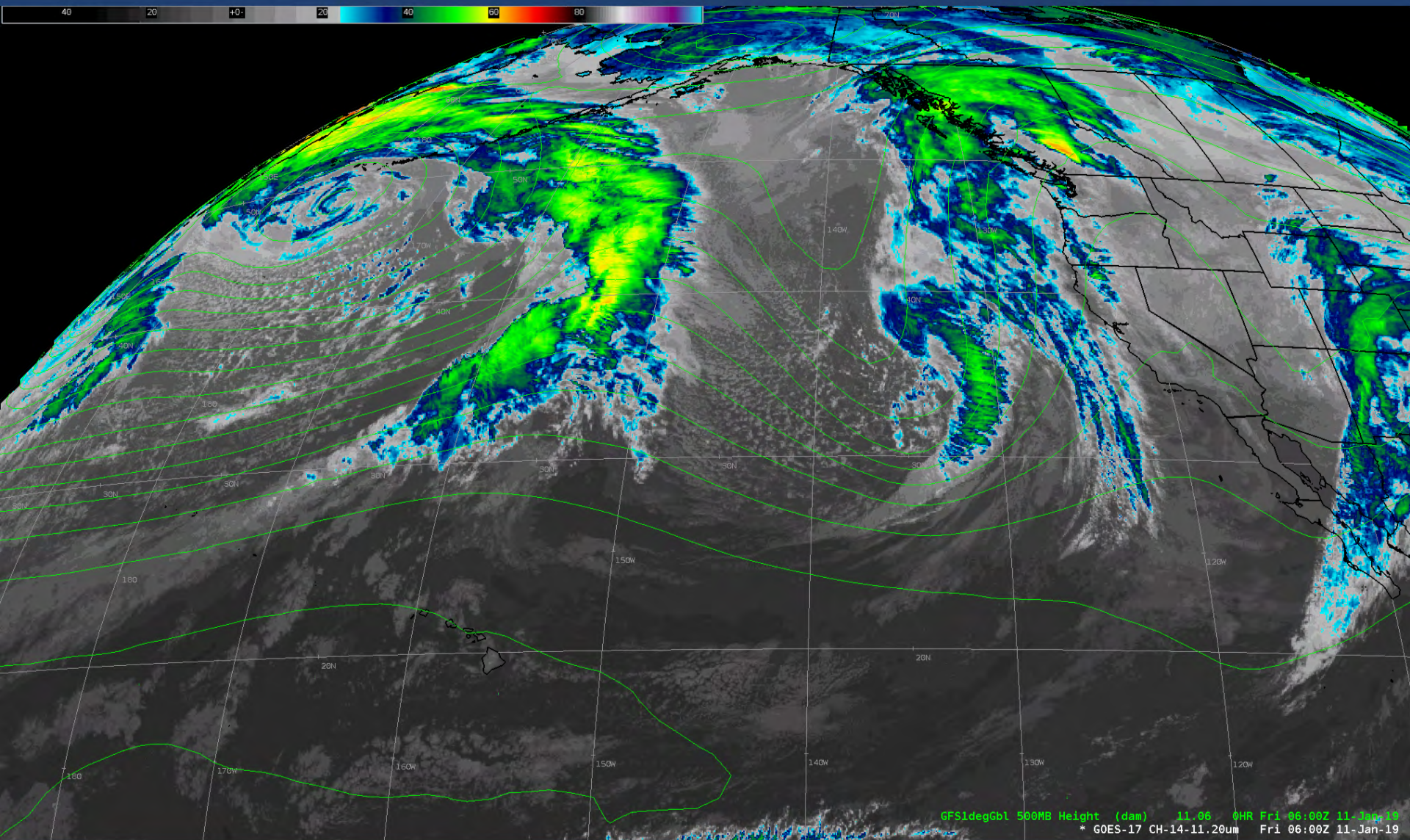
KMYL - Oct 2018 Through Sep 2019



Temperature and Precipitation at Lewiston



Current IR Satellite Imagery

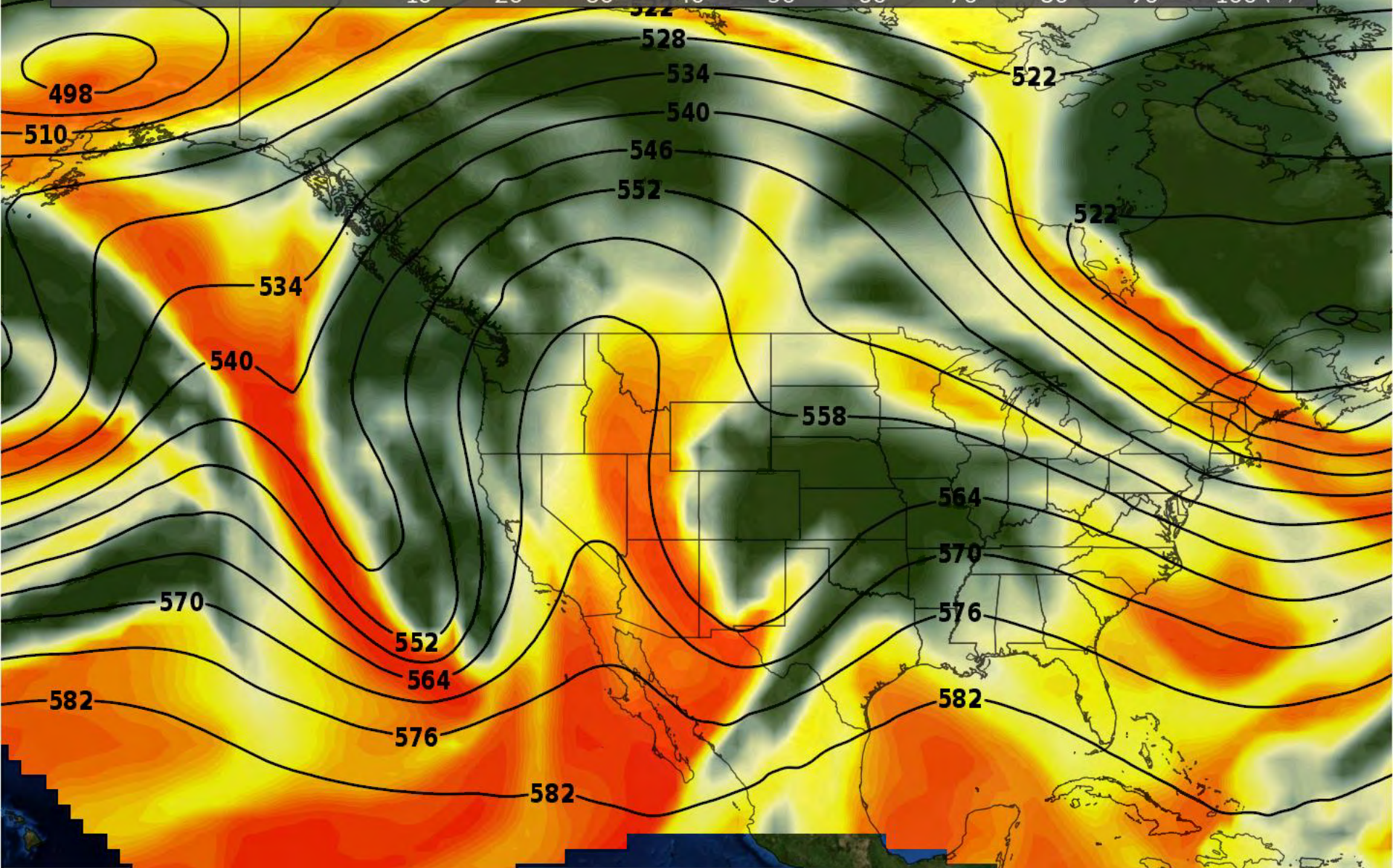
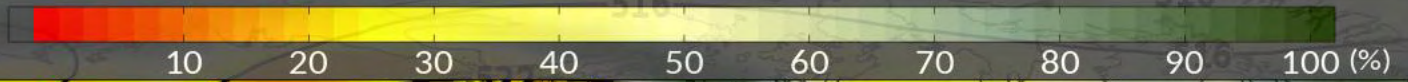


18:00Z Fri, Jan 11, 2019

| GFS 500mb RH and Heights

Init: 06Z11JAN2019

Forecast Hour: 12

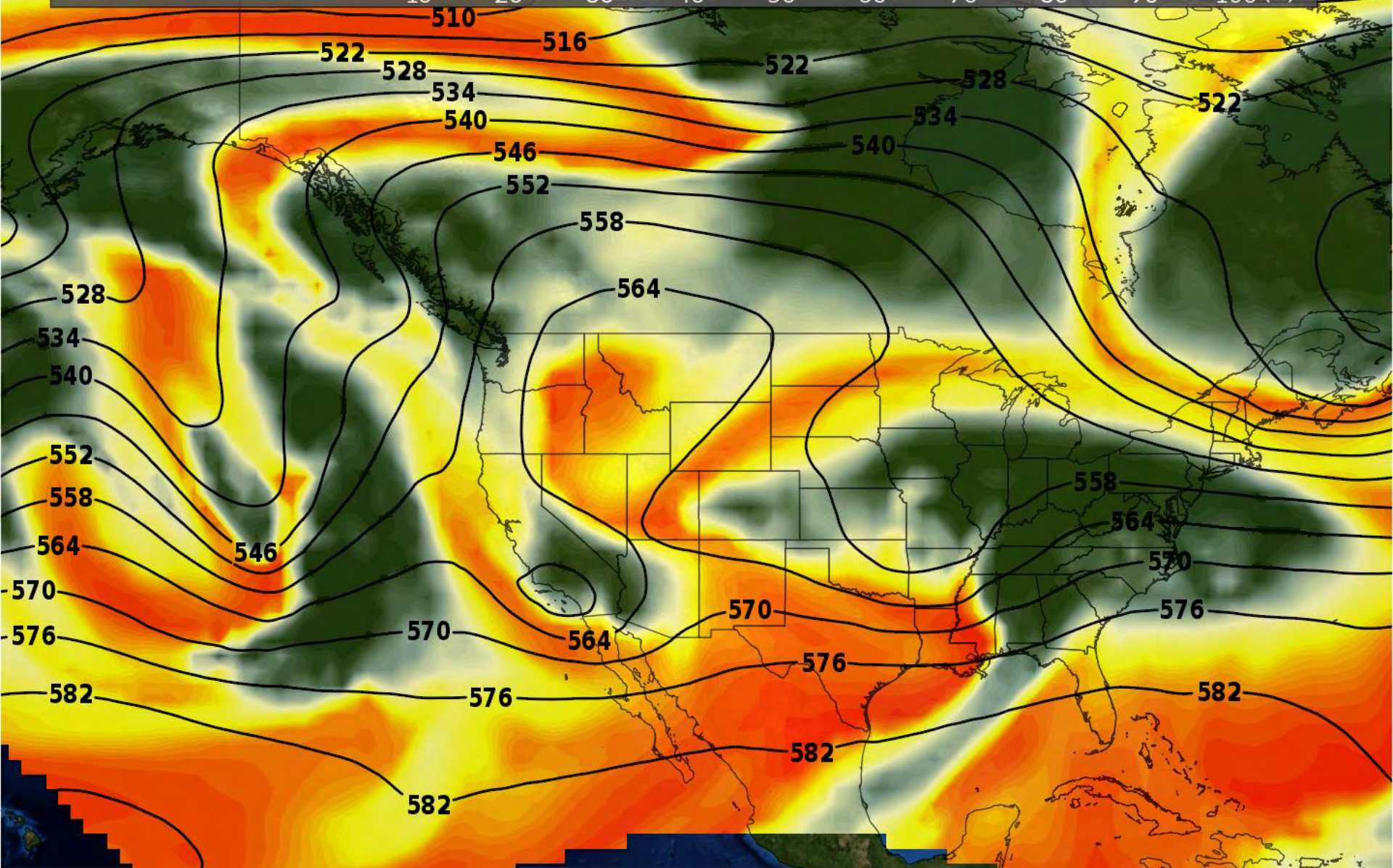
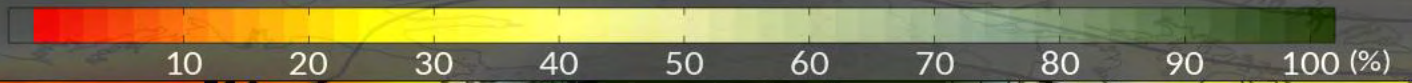


18:00Z Sat, Jan 12, 2019

| GFS 500mb RH and Heights

Init: 06Z11JAN2019

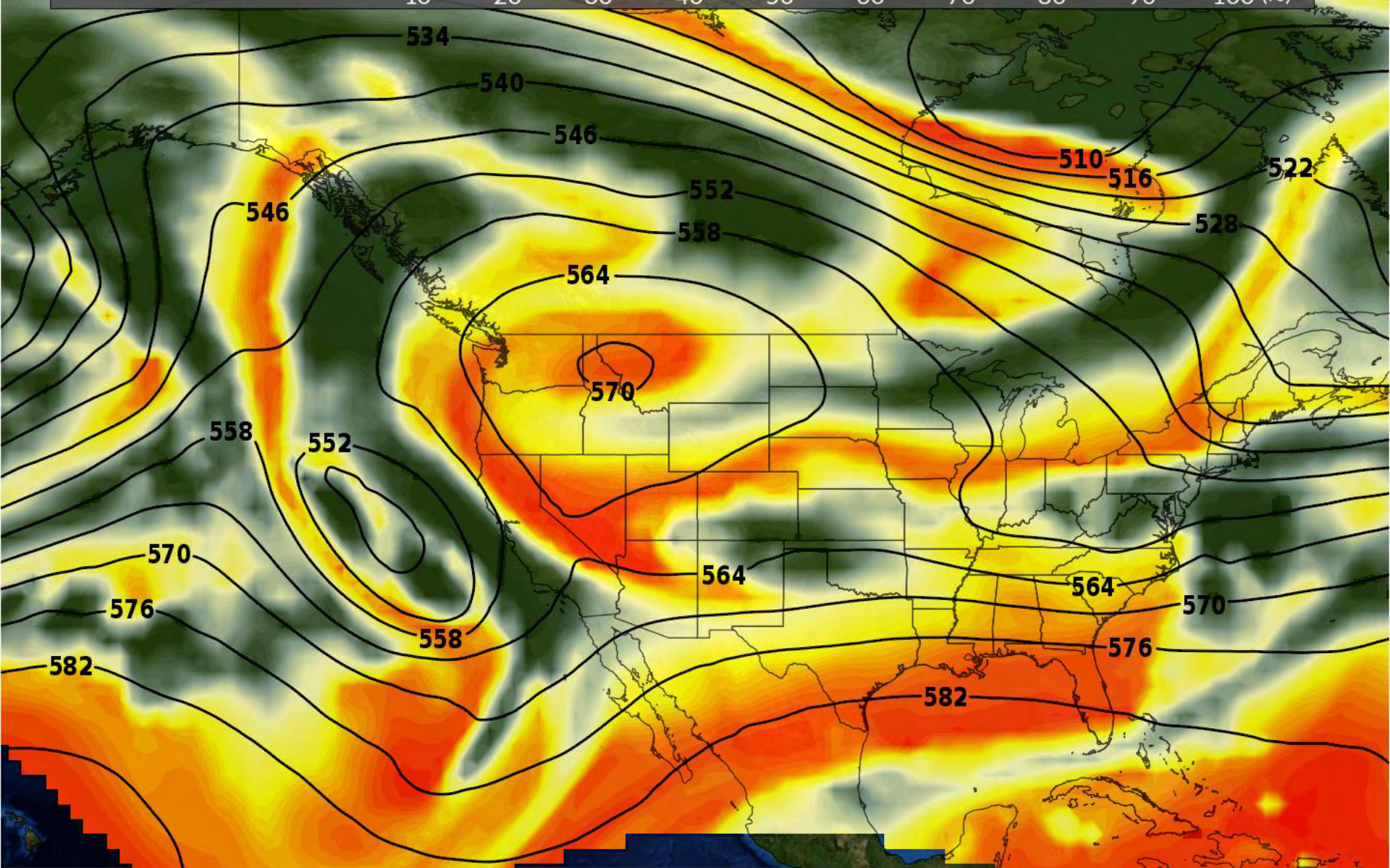
Forecast Hour: 36



18:00Z Sun, Jan 13, 2019 | GFS 500mb RH and Heights

Init: 06Z11JAN2019

Forecast Hour: 60

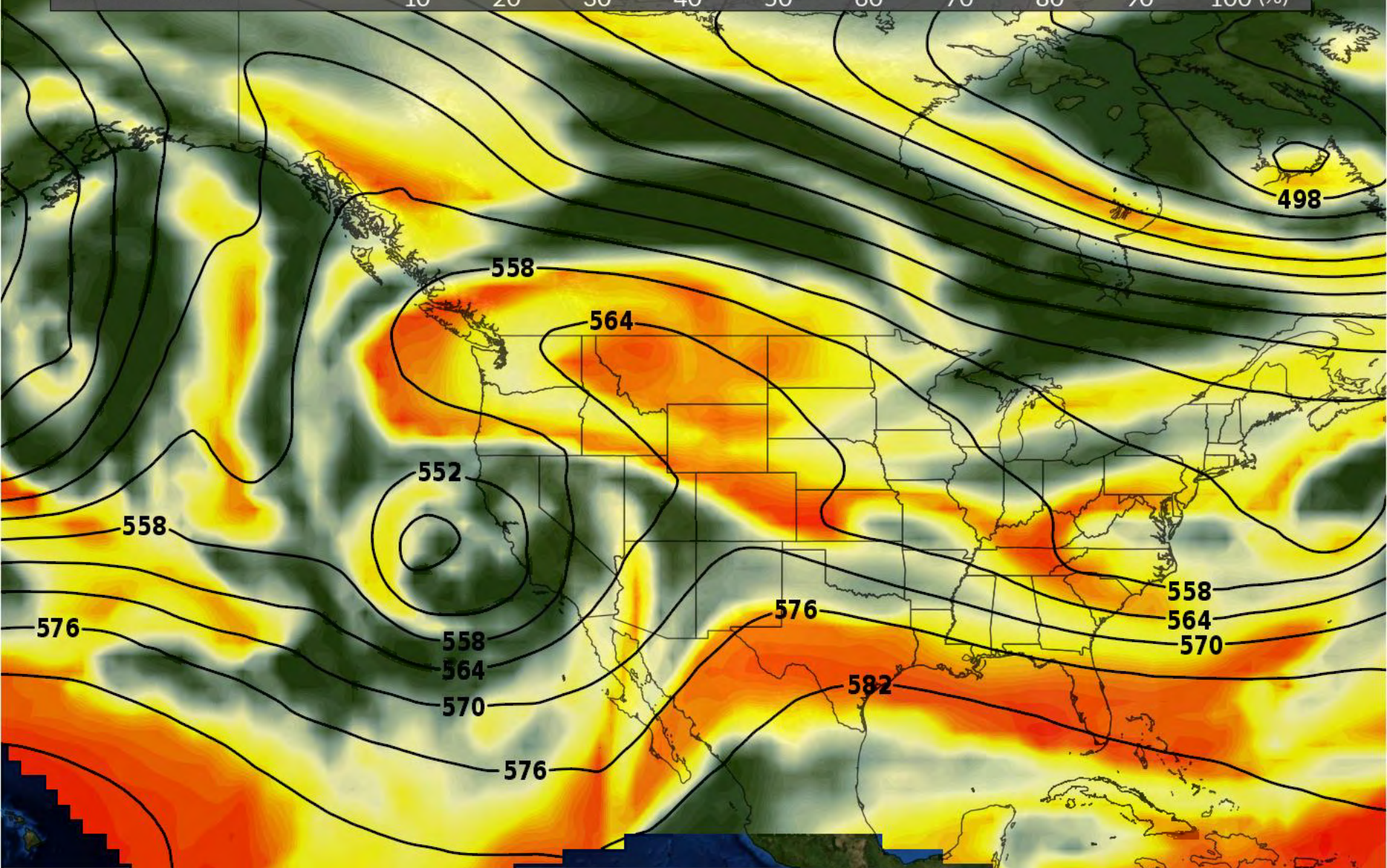


18:00Z Mon, Jan 14, 2019 | GFS 500mb RH and Heights

Init: 06Z11JAN2019

Forecast Hour: 84

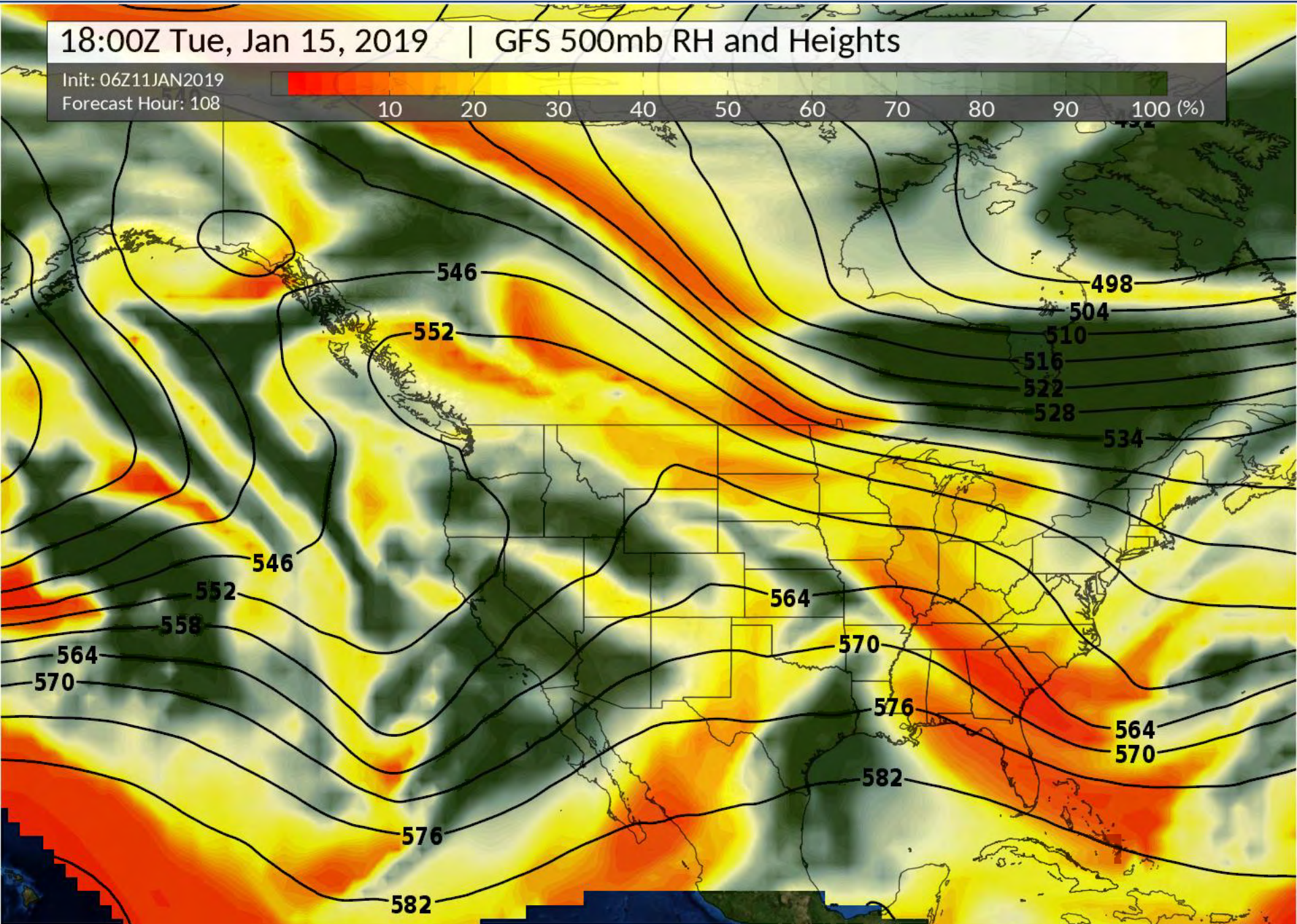
10 20 30 40 50 60 70 80 90 100 (%)



18:00Z Tue, Jan 15, 2019 | GFS 500mb RH and Heights

Init: 06Z11JAN2019

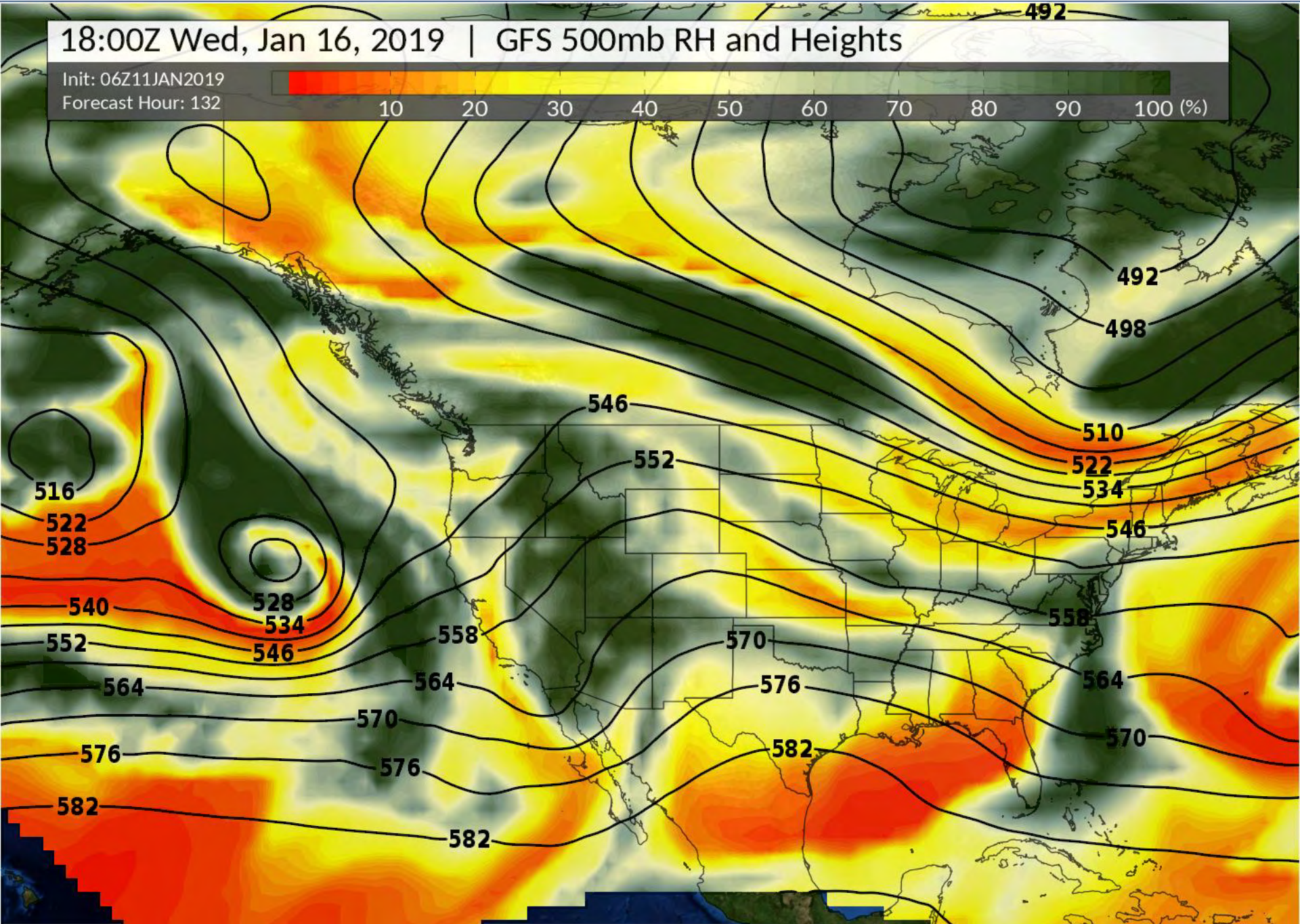
Forecast Hour: 108



18:00Z Wed, Jan 16, 2019 | GFS 500mb RH and Heights

Init: 06Z11JAN2019

Forecast Hour: 132

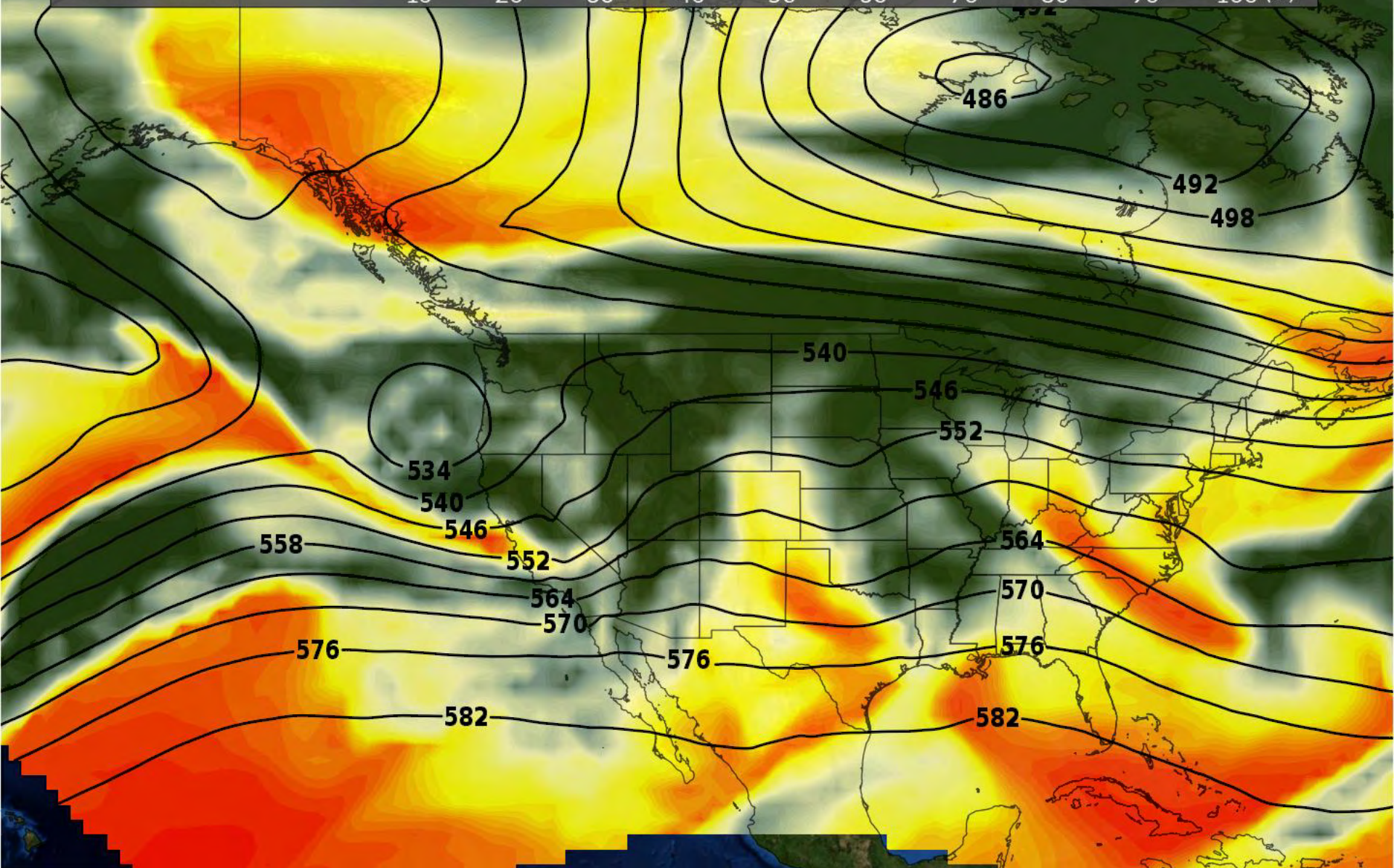


524

18:00Z Thu, Jan 17, 2019 | GFS 500mb RH and Heights

Init: 06Z11JAN2019

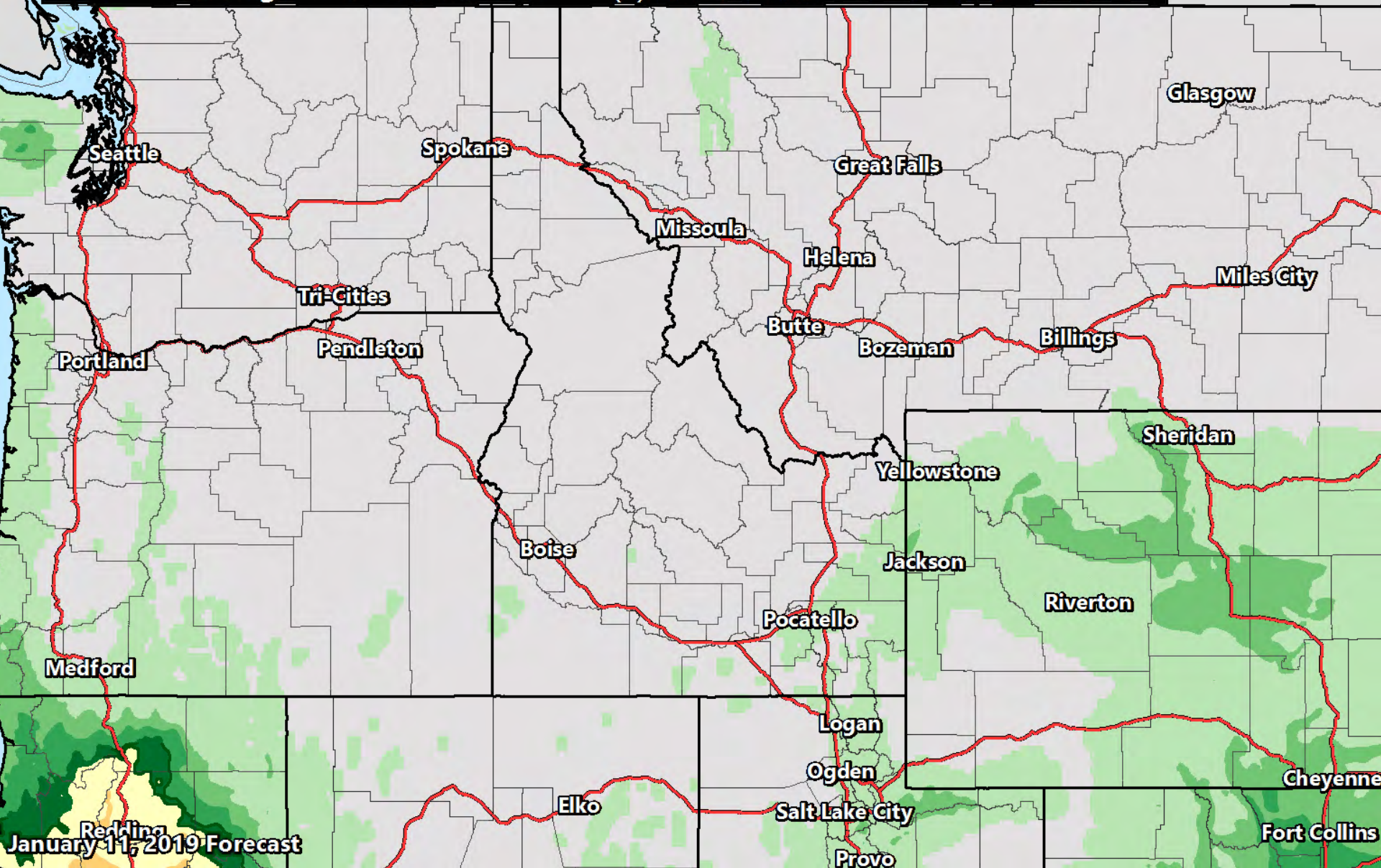
Forecast Hour: 156





5-Day Precipitation Forecast

Through 4PM 01/15/2019

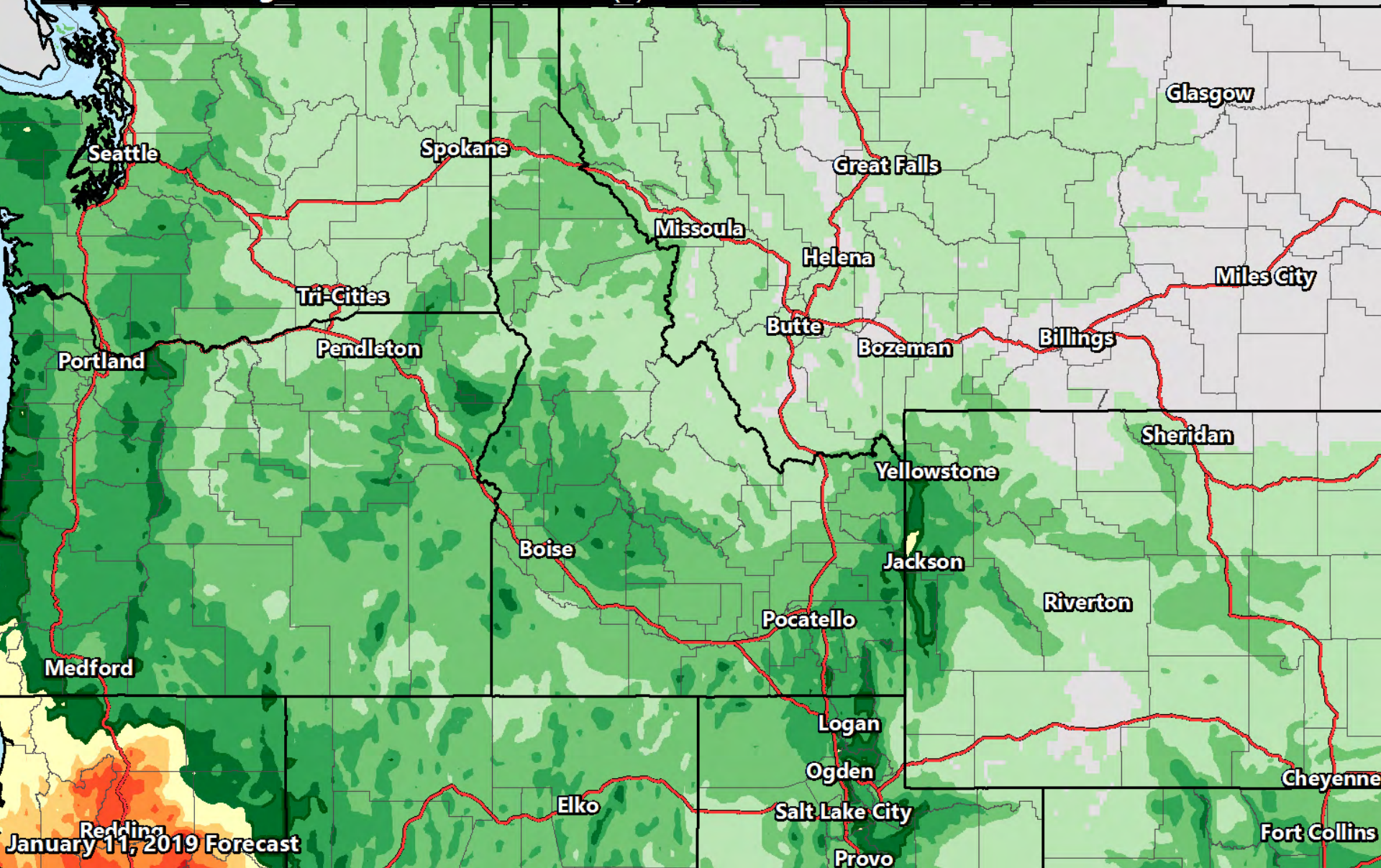


January 11, 2019 Forecast



7-Day Precipitation Forecast

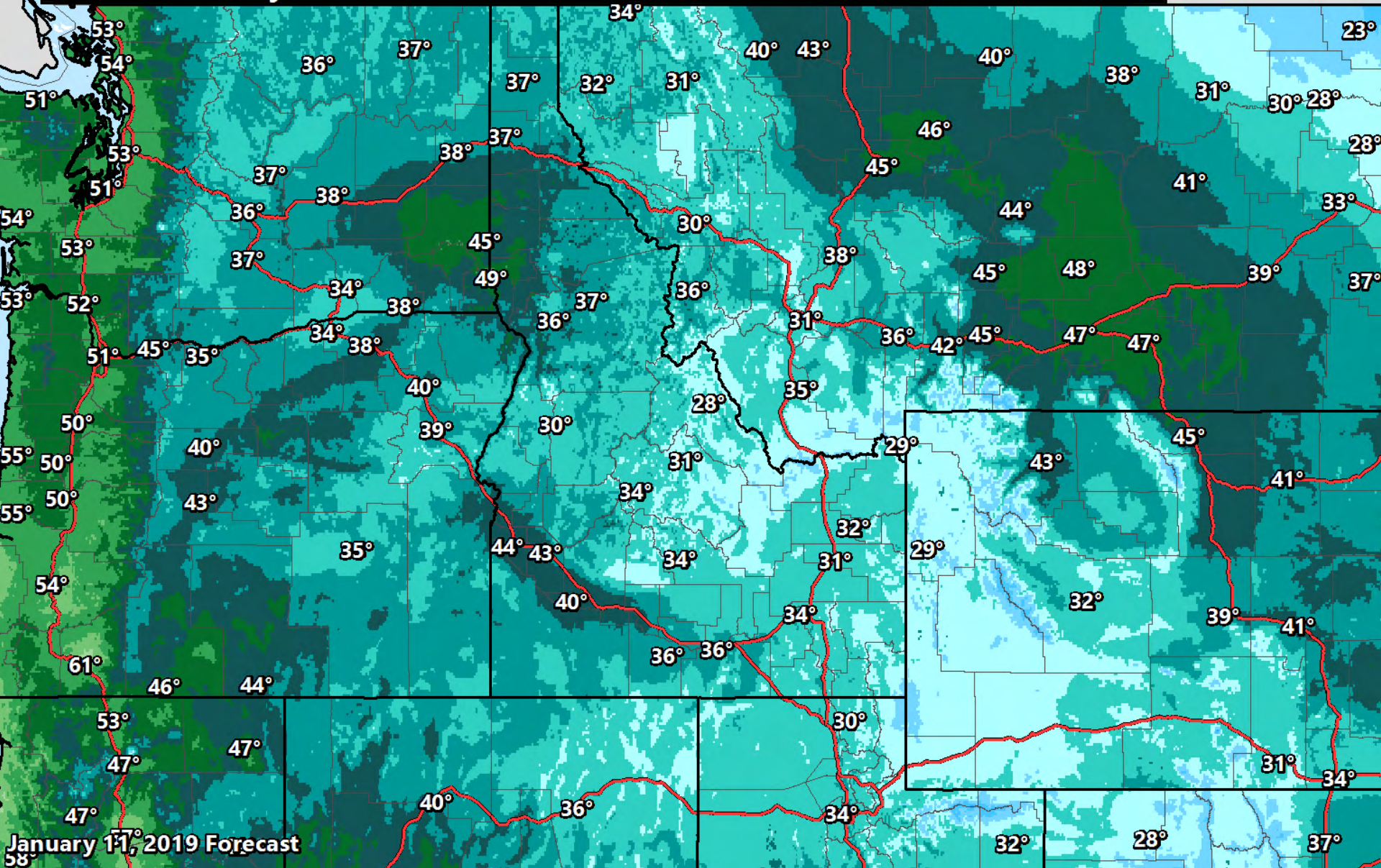
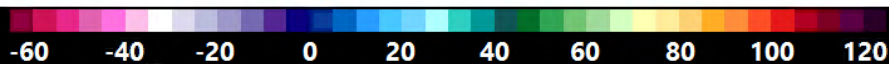
Through 4PM 01/17/2019



January 11, 2019 Forecast



January 11

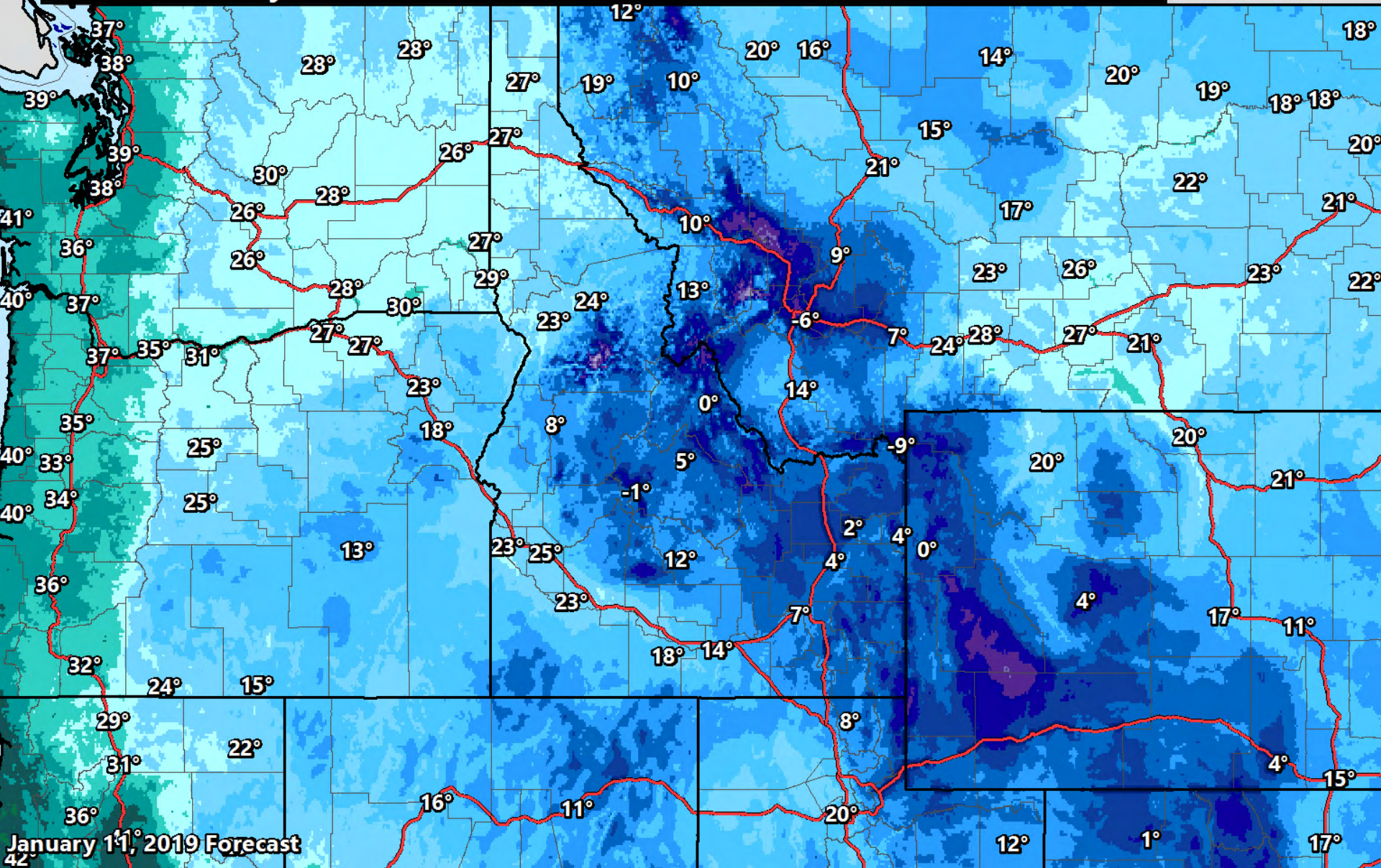
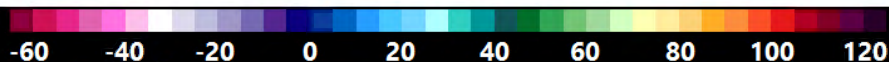


January 11, 2019 Forecast



Low Temperature Forecast

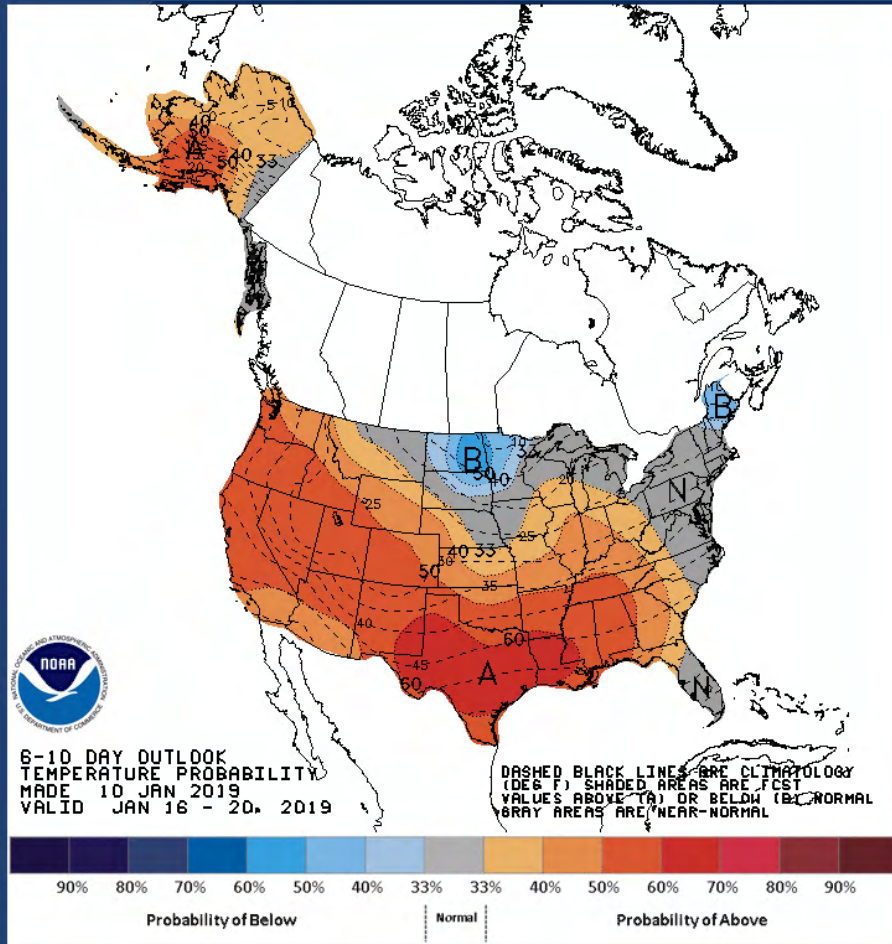
January 12



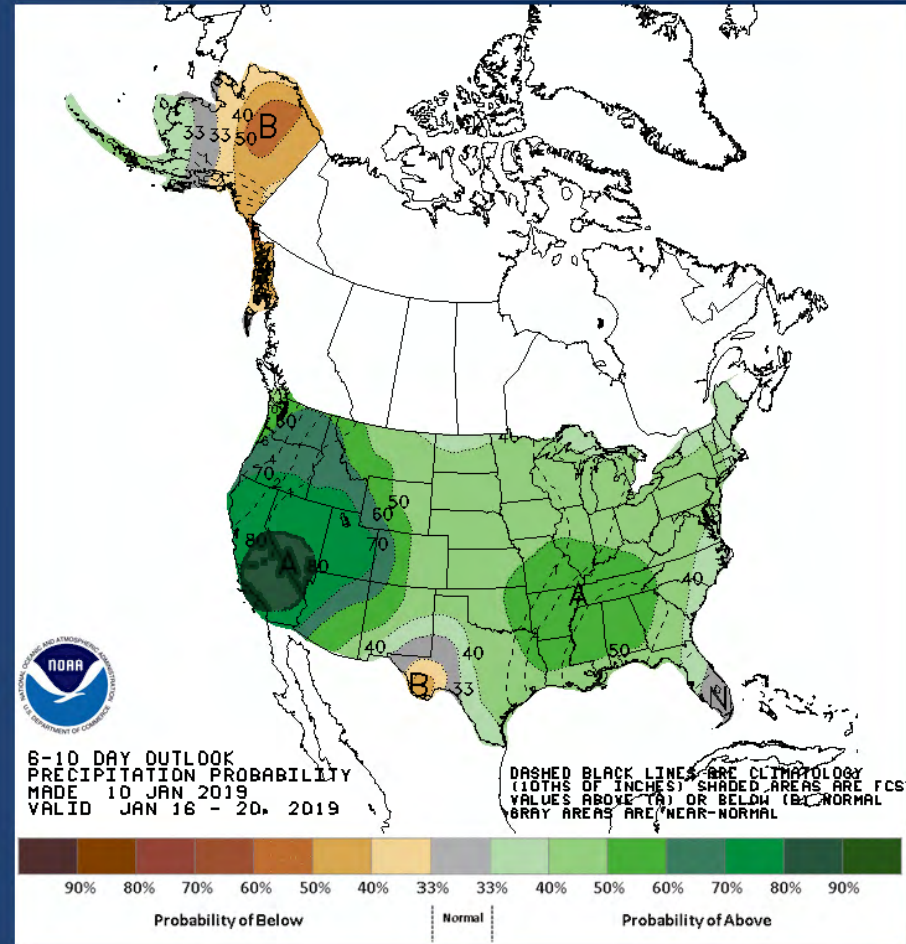
January 11, 2019 Forecast

6-10 Day Outlook

January 16 - 20



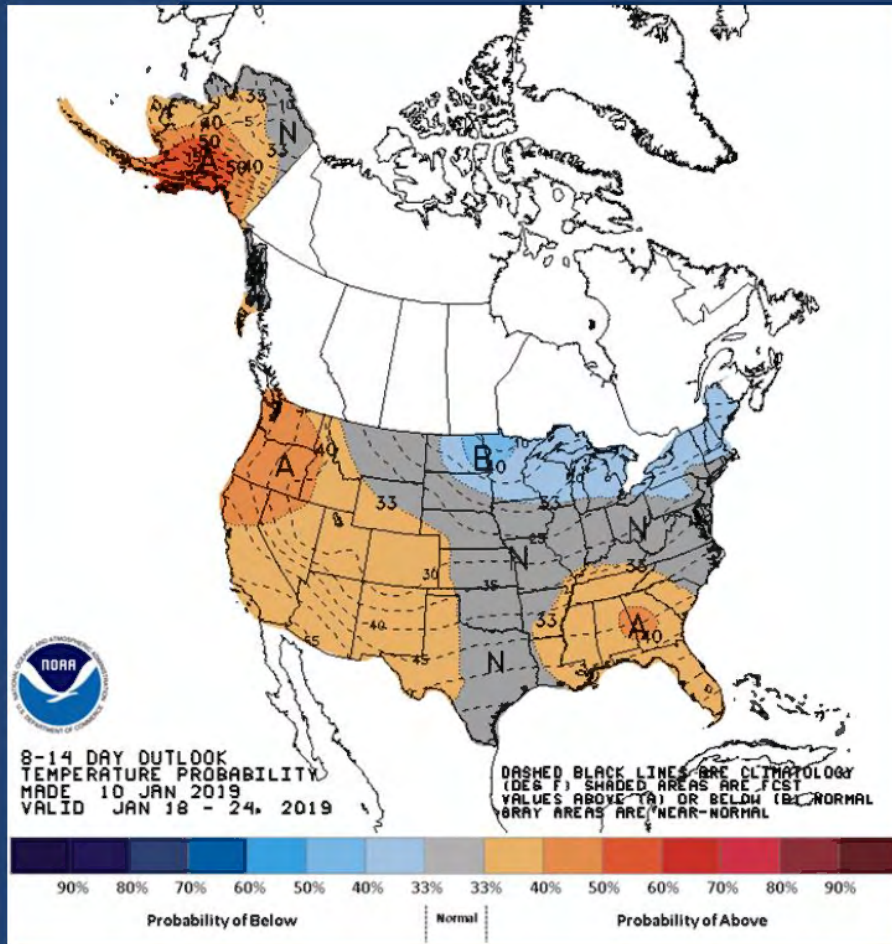
Temperature



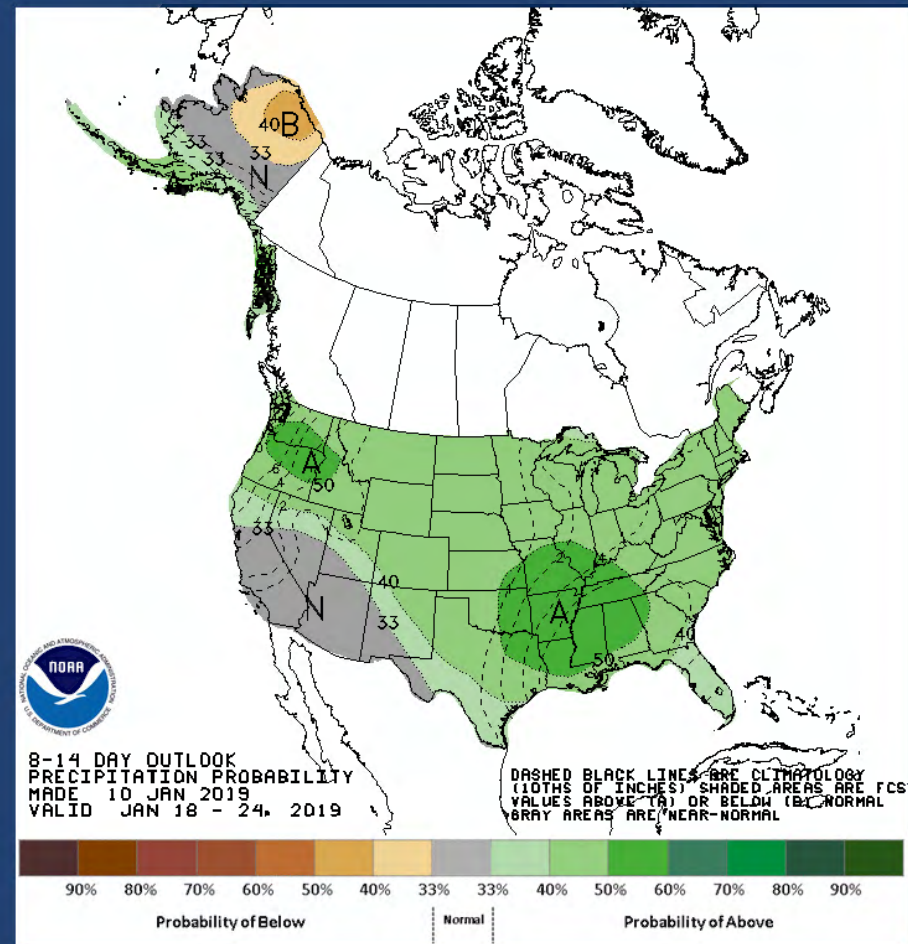
Precipitation

8-14 Day Outlook

January 18 - 24



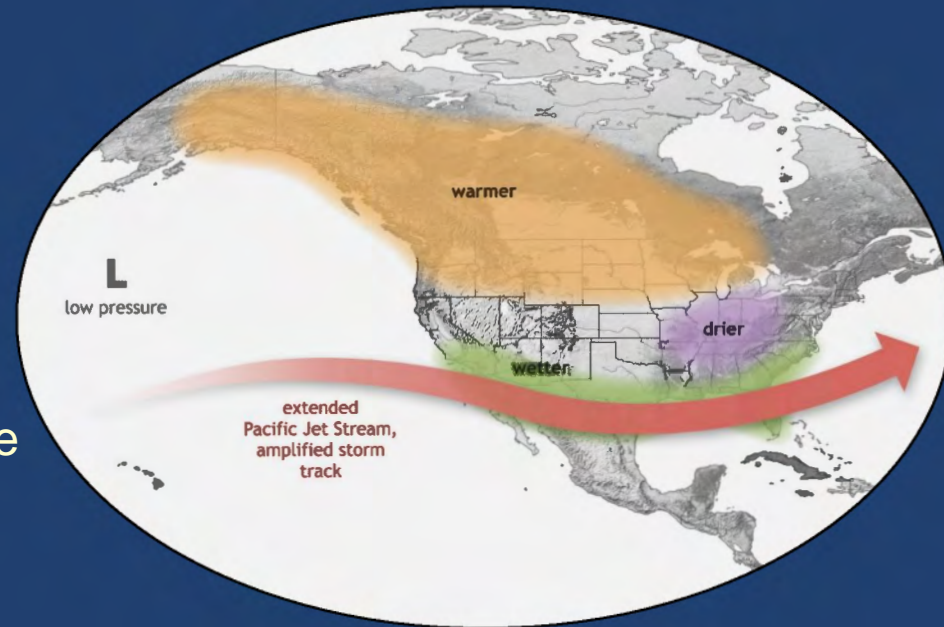
Temperature



Precipitation

ENSO Status & Climate Outlook

- ENSO-neutral conditions are present
- Sea surface temperatures are above-average across most of the equatorial Pacific Ocean
- The overall coupled ocean-atmosphere system continues to reflect ENSO-neutral
- El Niño (weak) is likely to form and continue through the winter and spring



El Niño Winter Impacts

NWRFC Water Supply

NF CLEARWATER - DWORSHAK DAM (DWR1)

Forecasts for Water Year 2018

Official Forecast

10 days QPF: Ensemble: 2018-01-11 Issued: 2018-01-11

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	2056	2623	102	3457	2575
APR-JUL	1934	2480	103	3257	2419
JAN-SEP	3098	3787	110	4721	3445
JAN-JUL	2971	3636	111	4569	3289
OCT-SEP	3606	4295	110	5229	3891

5 d

APR-

APR-

JAN-

JAN-

OCT-

5 d

APR-

APR-

JAN-

JAN-

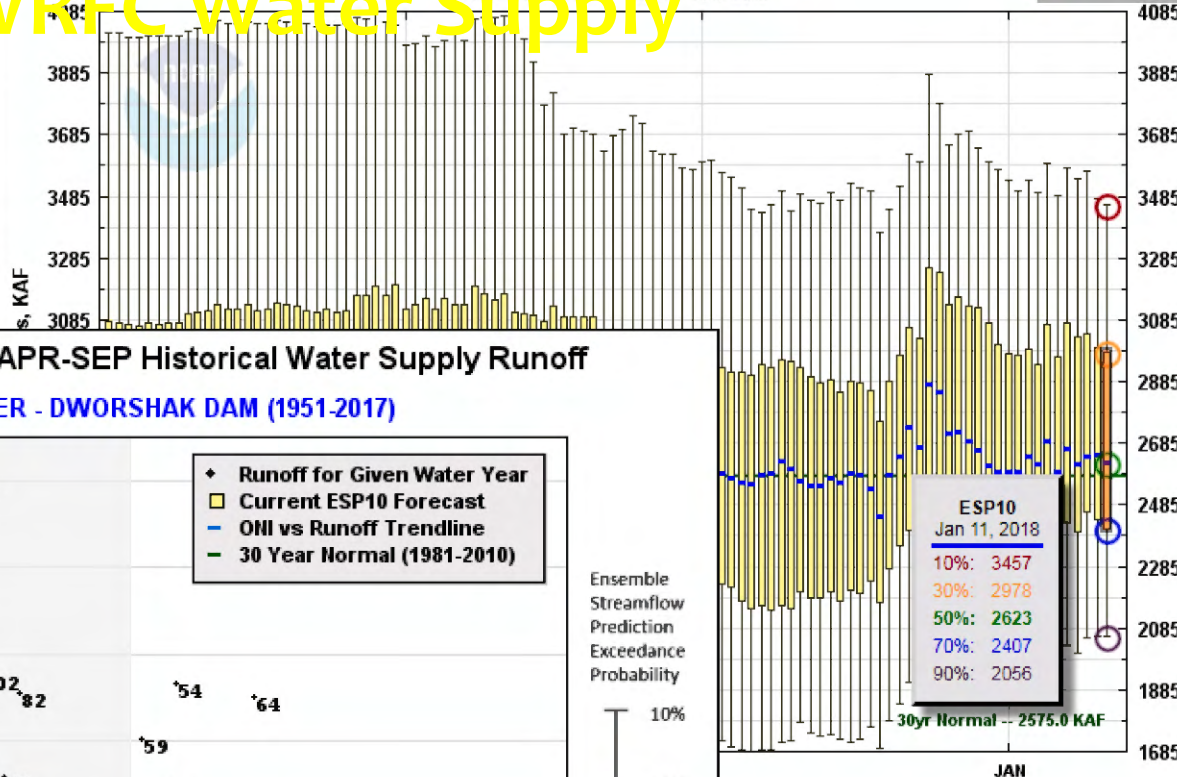
OCT-

Move

Water Supply Forecasts

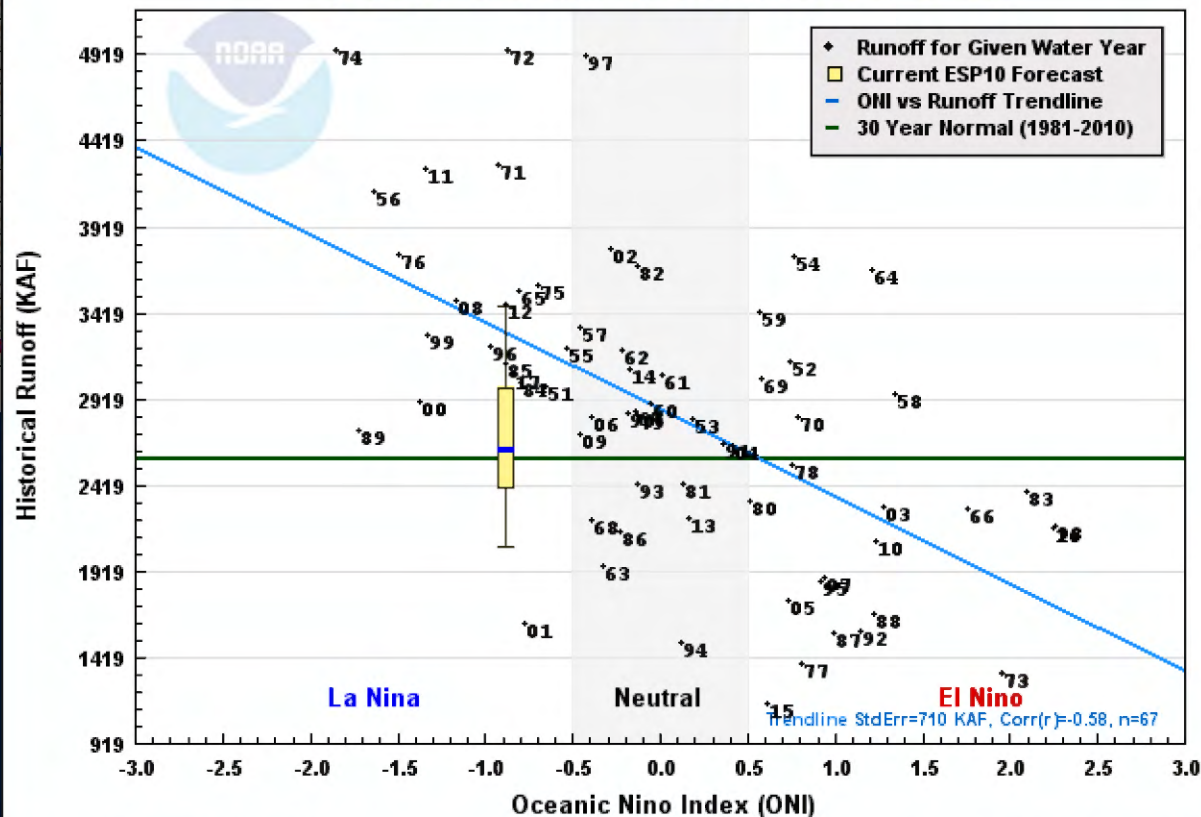
NF CLEARWATER - DWORSHAK DAM
Period: APR to SEP -- Water Year 2018

30yr Normal
ESP10

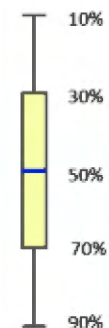


OCT-DEC Oceanic Nino Index vs APR-SEP Historical Water Supply Runoff

(DWR1) NF CLEARWATER - DWORSHAK DAM (1951-2017)



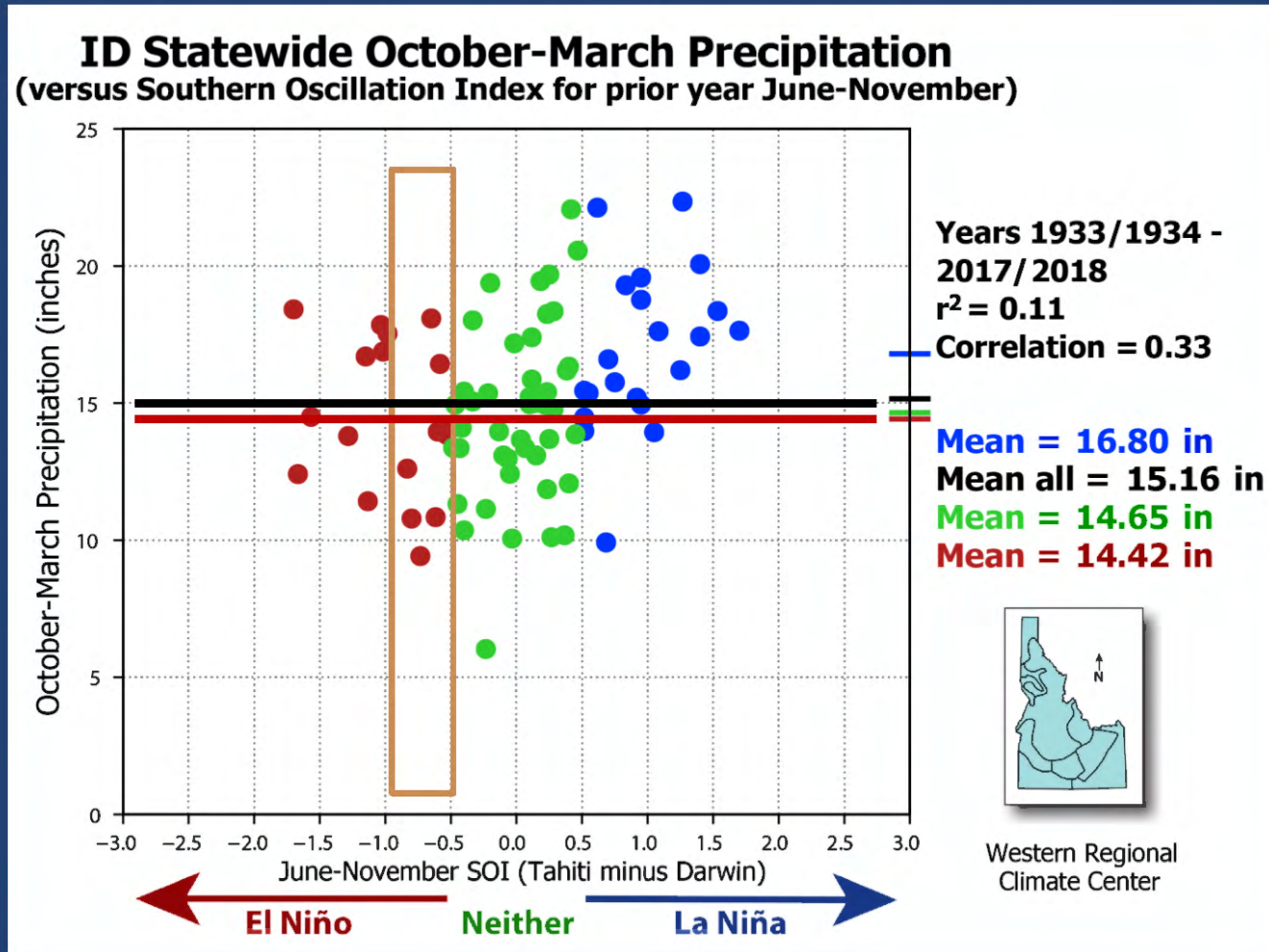
Ensemble Streamflow Prediction Exceedance Probability



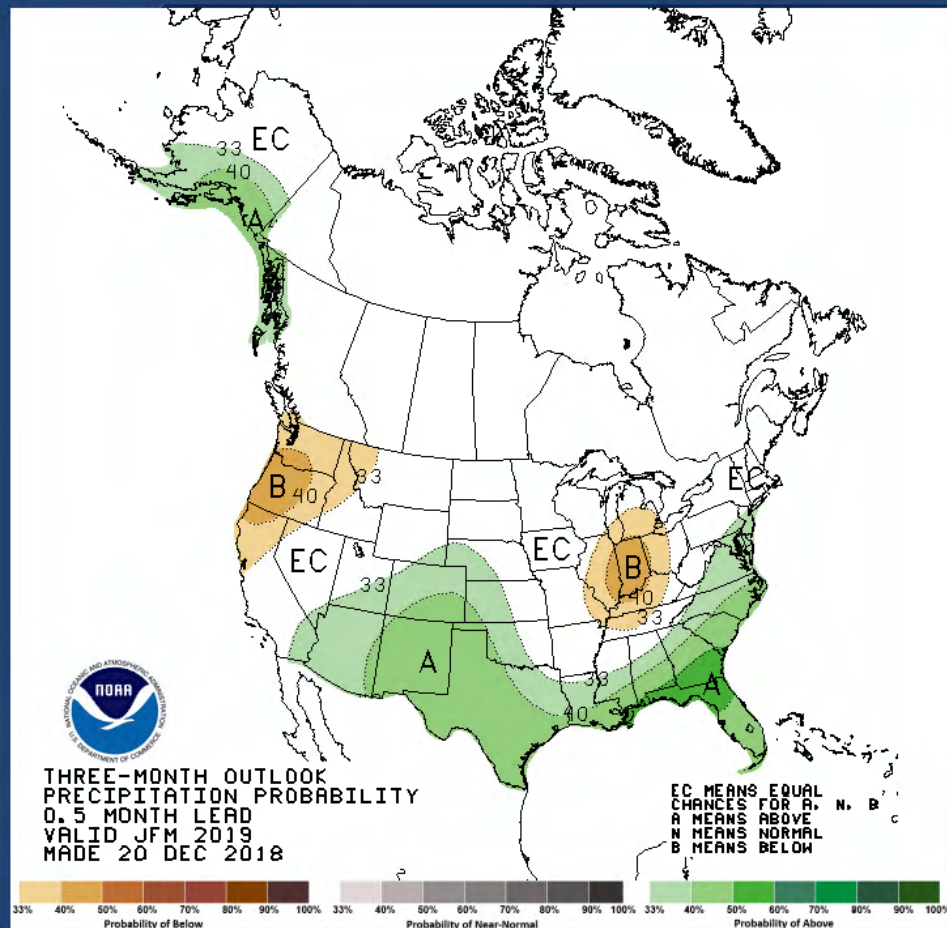
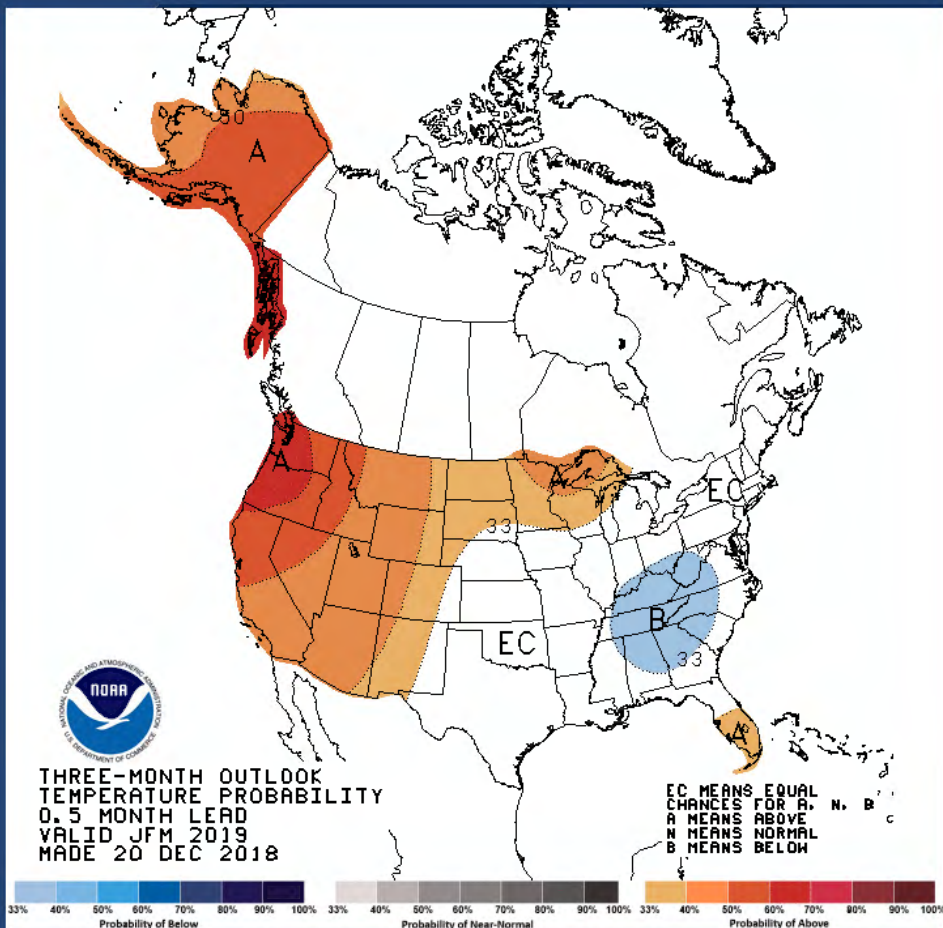
Plot Created 01/12/2018 08:19 PST

Southern Oscillation Index (SOI) Precipitation Relationships Idaho

- Variety of precipitation outcomes during El Niño events

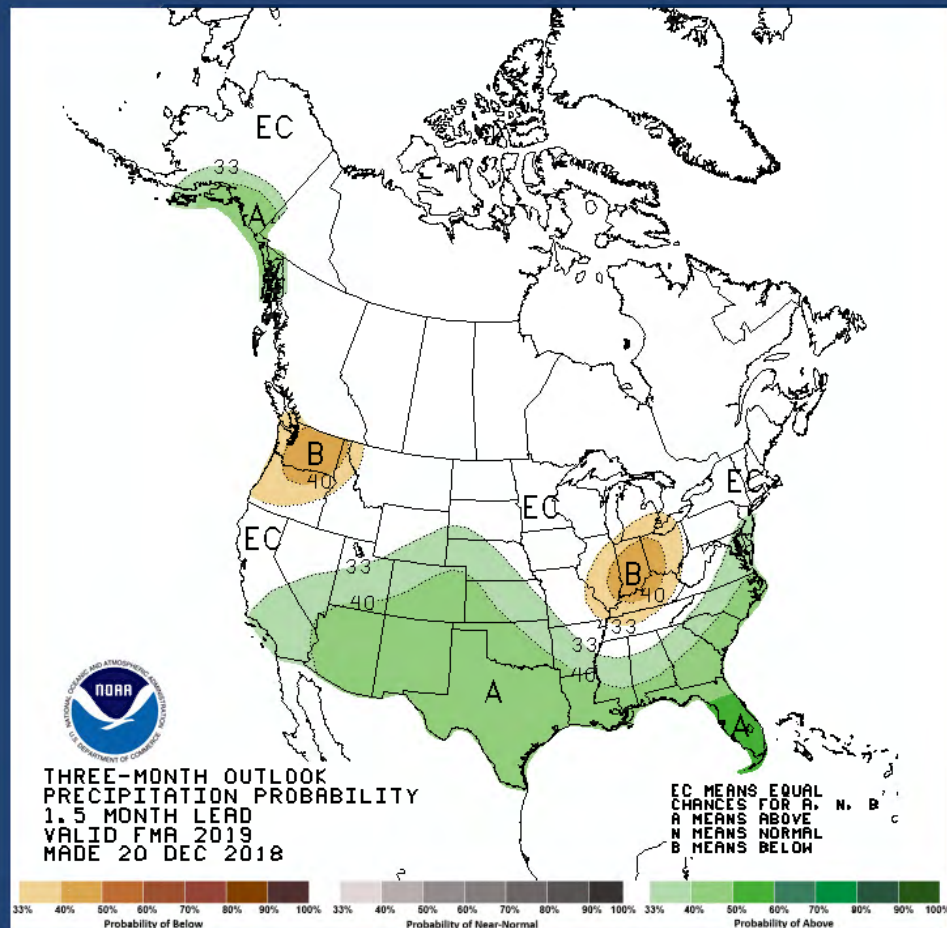
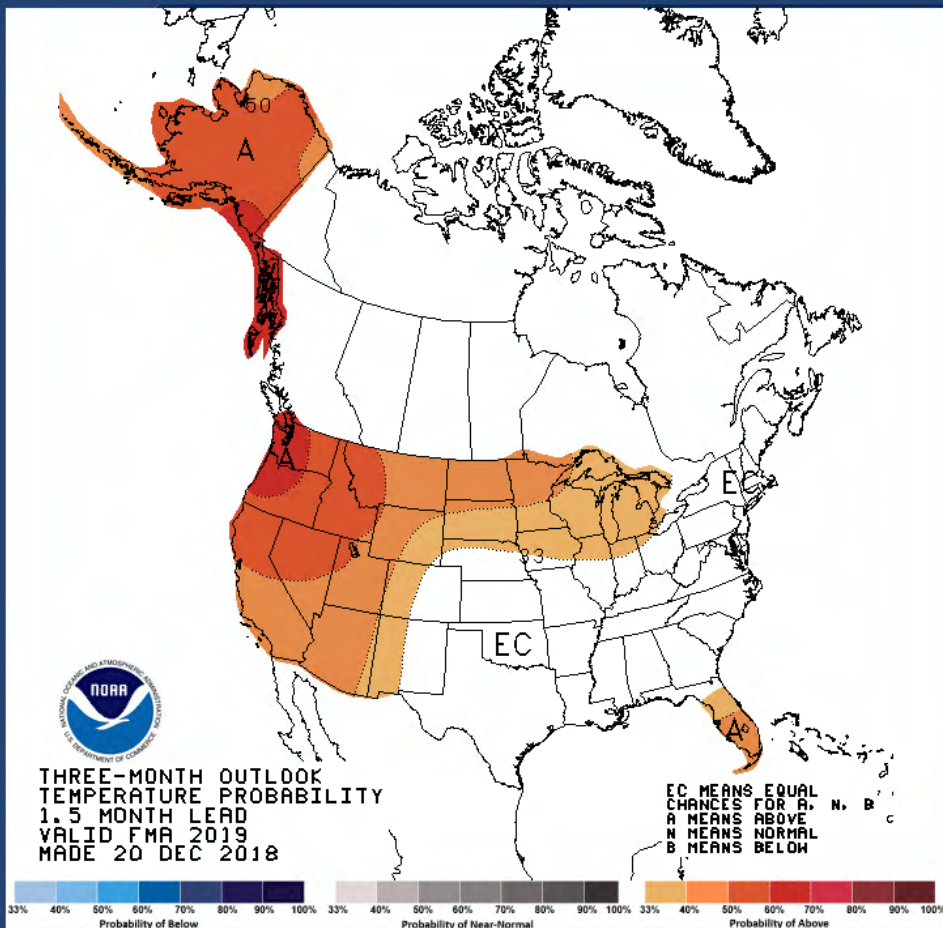


Seasonal Outlook



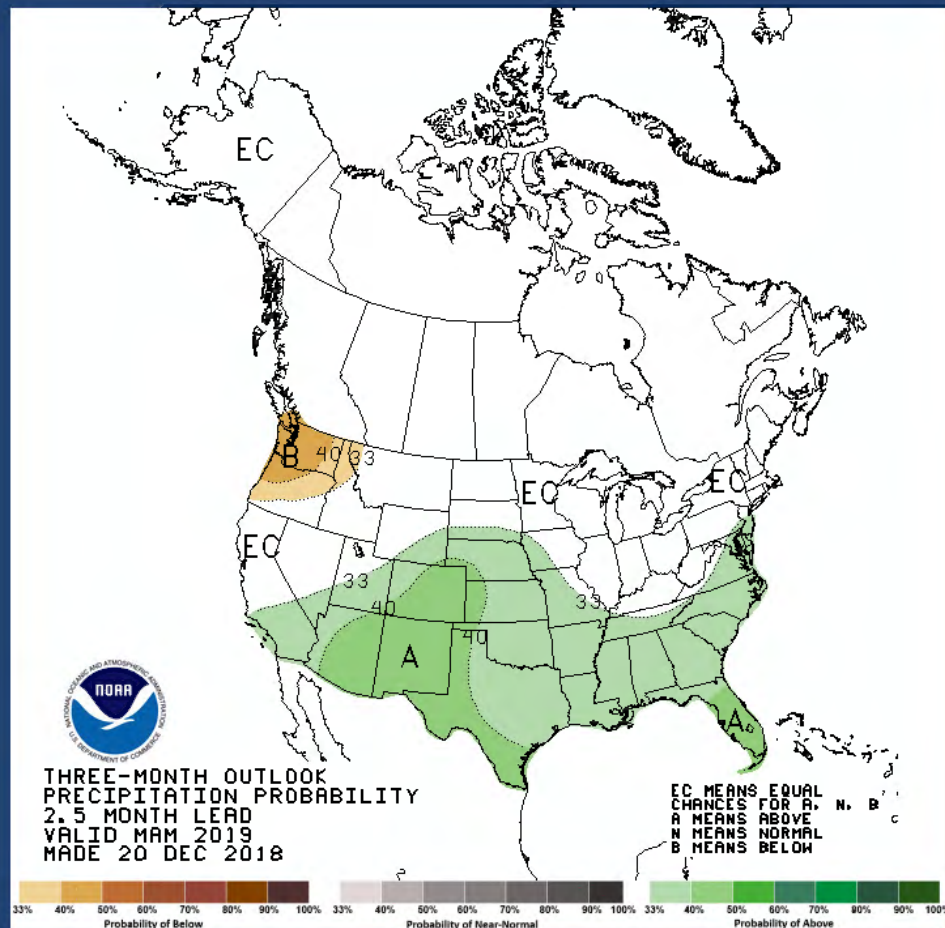
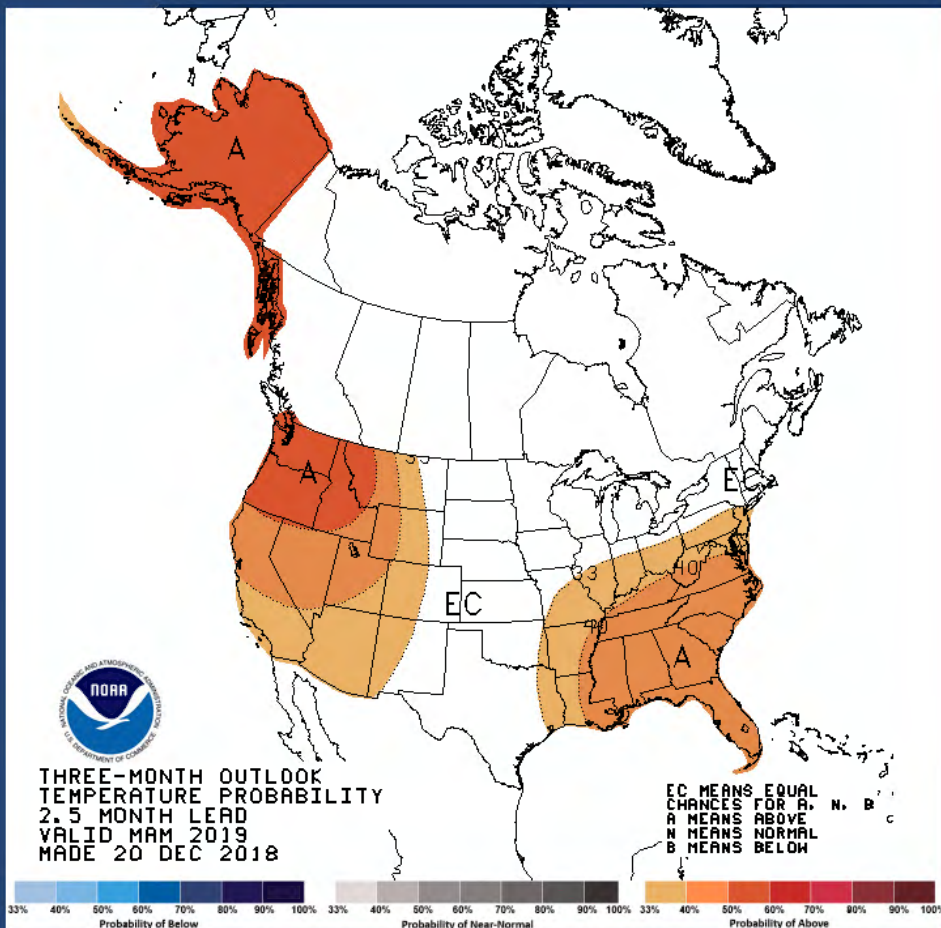
Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

Seasonal Outlook



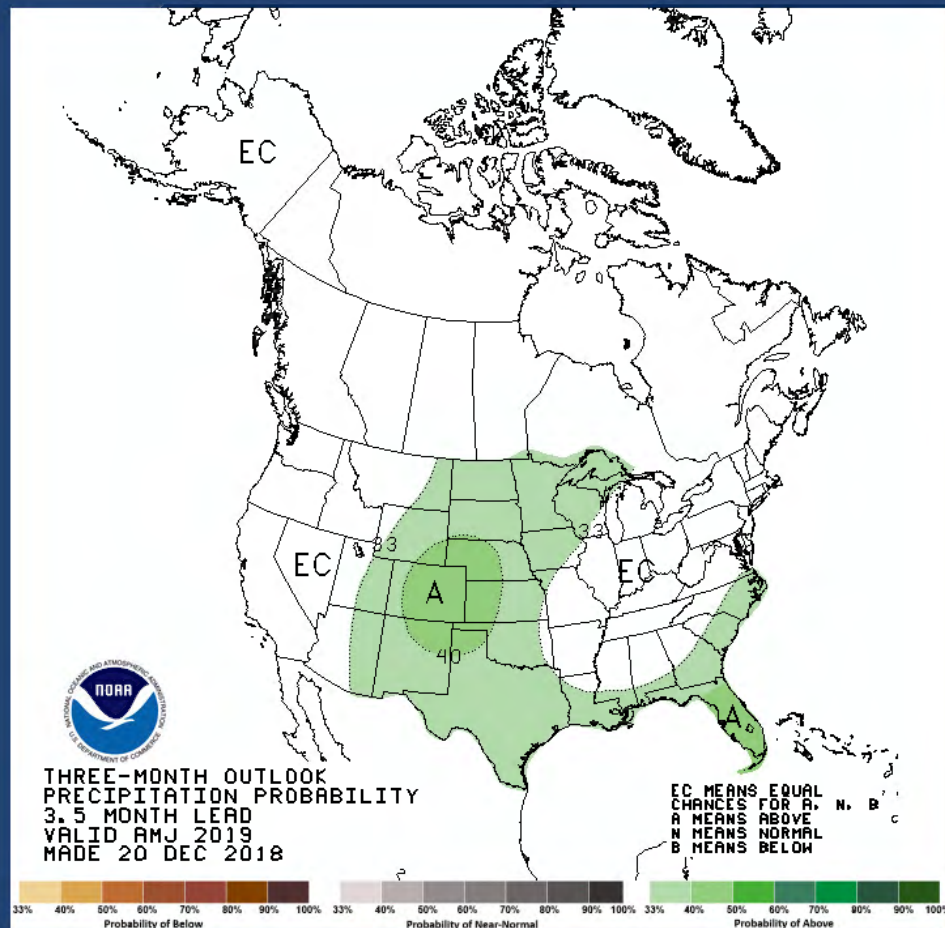
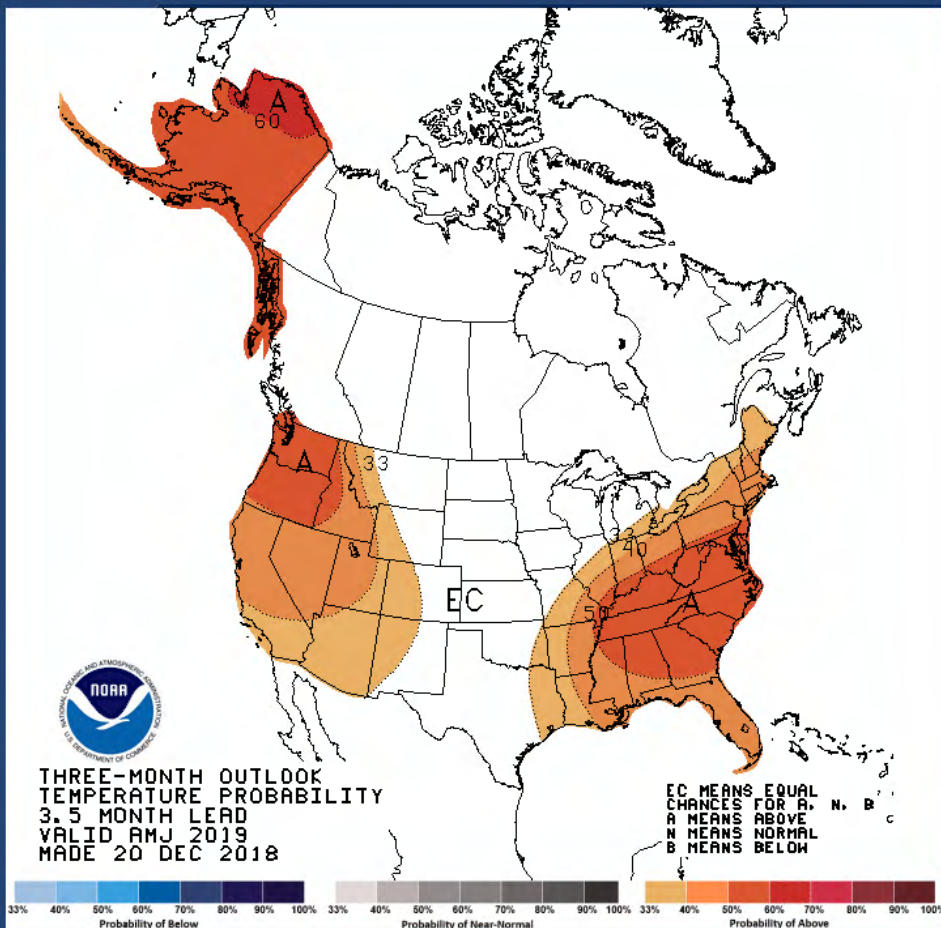
Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

Seasonal Outlook



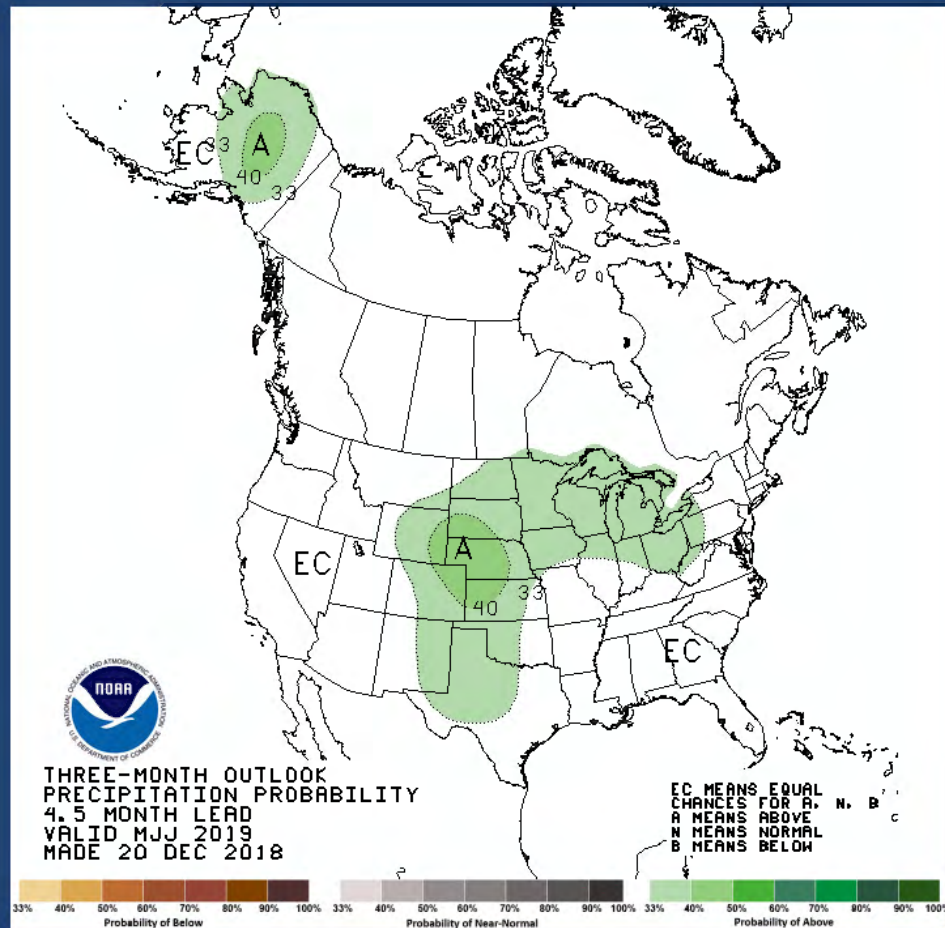
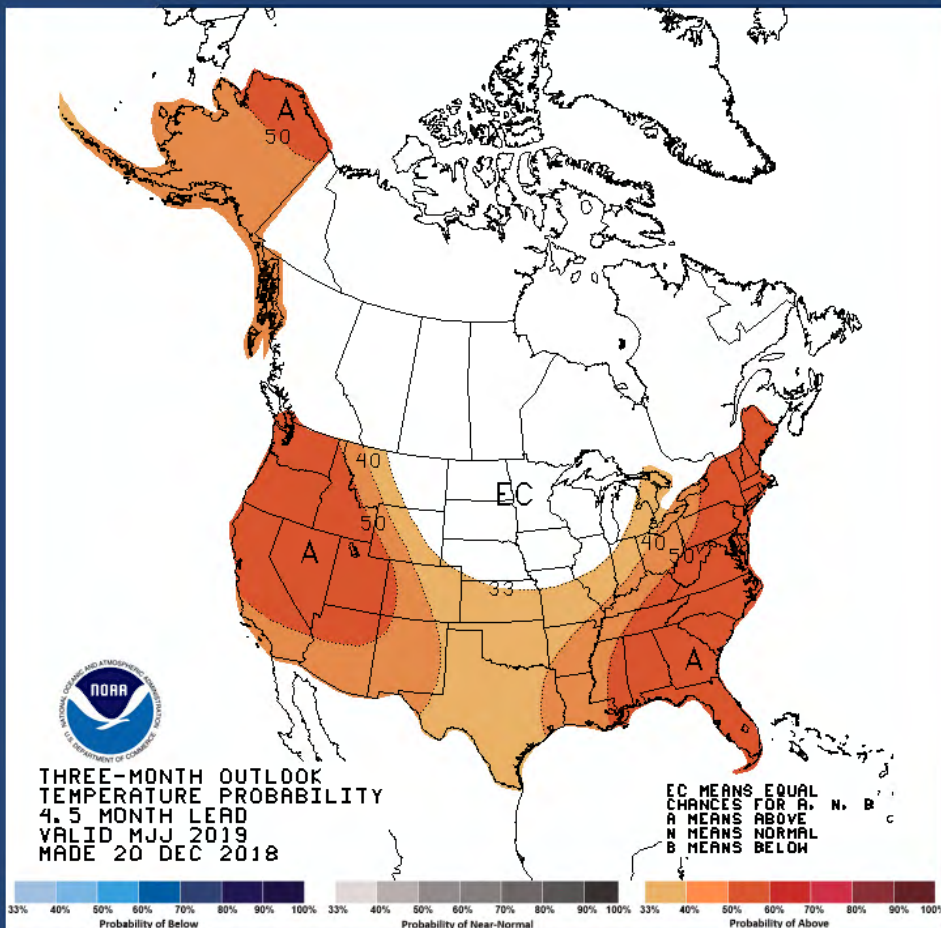
Jan | Feb | **Mar** | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

Seasonal Outlook



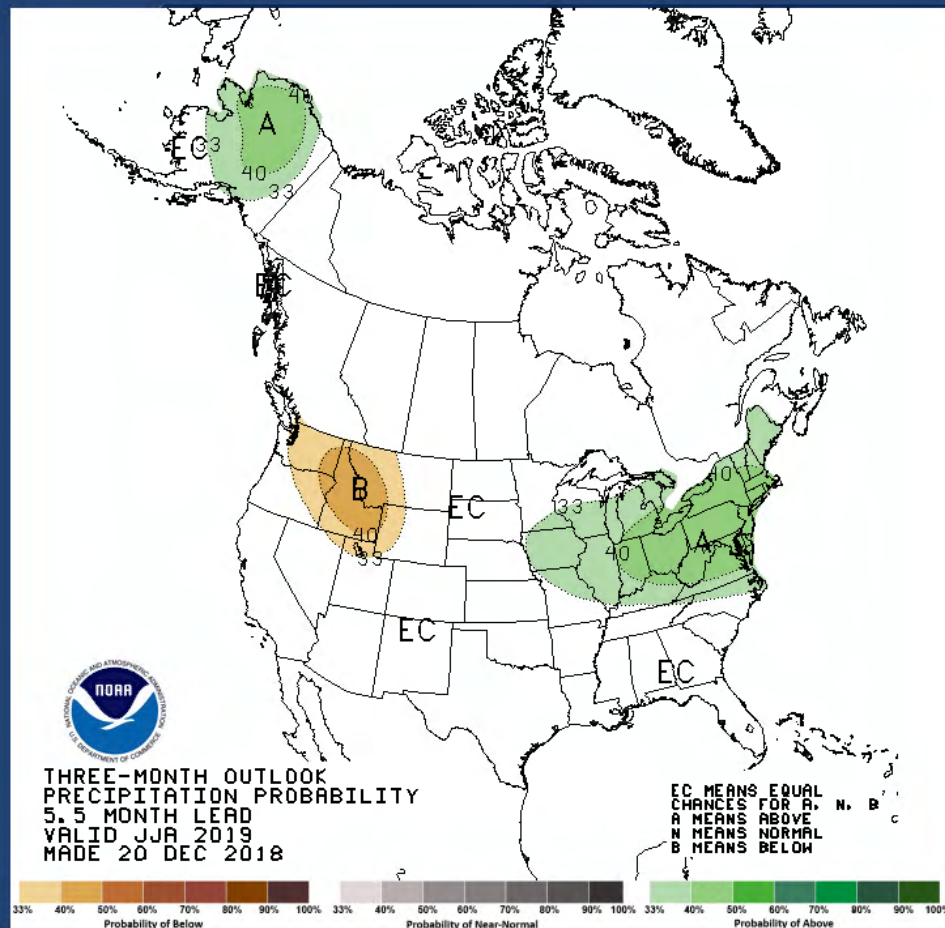
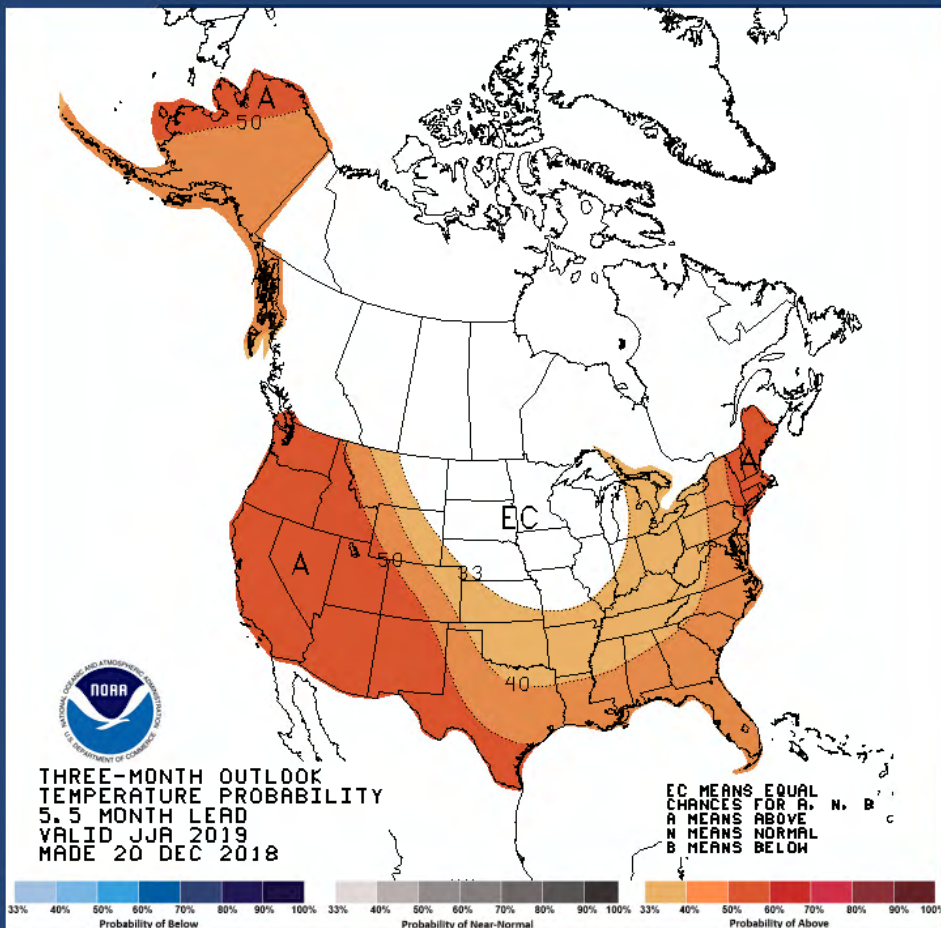
Jan | Feb | Mar | **Apr | May | Jun** | Jul | Aug | Sep | Oct | Nov | Dec

Seasonal Outlook



Jan | Feb | Mar | Apr | **May** | Jun | Jul | Aug | Sep | Oct | Nov | Dec

Seasonal Outlook



Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec



Northwest River Forecast Center

Water Supply Forecasts



River and Hydrology

Water Supply

Observations

Weather Forecasts

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ESP Issued: 2019-01-09

Ensemble Date: 2019-01-09

[Permalink](#)

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Enter NWS ID:

[GO](#)

Map Overlays

- ☒ NWRFC Boundary
- ☐ NWRFC Basins
- ☐ NWS HSAs
- ☐ Counties

ESP WS Volumes

- ☐ Status
- ☐ Percent of Normal
- ☐ Rank (ASC)
- ☐ Rank (DESC)
- ☐ Exceedance (%)
- ☐ Percentile (%)
- ☐ Runoff Status
- ☐ Runoff % of Normal

Water Supply Forecast

Period: APR-SEP

(% Normal)

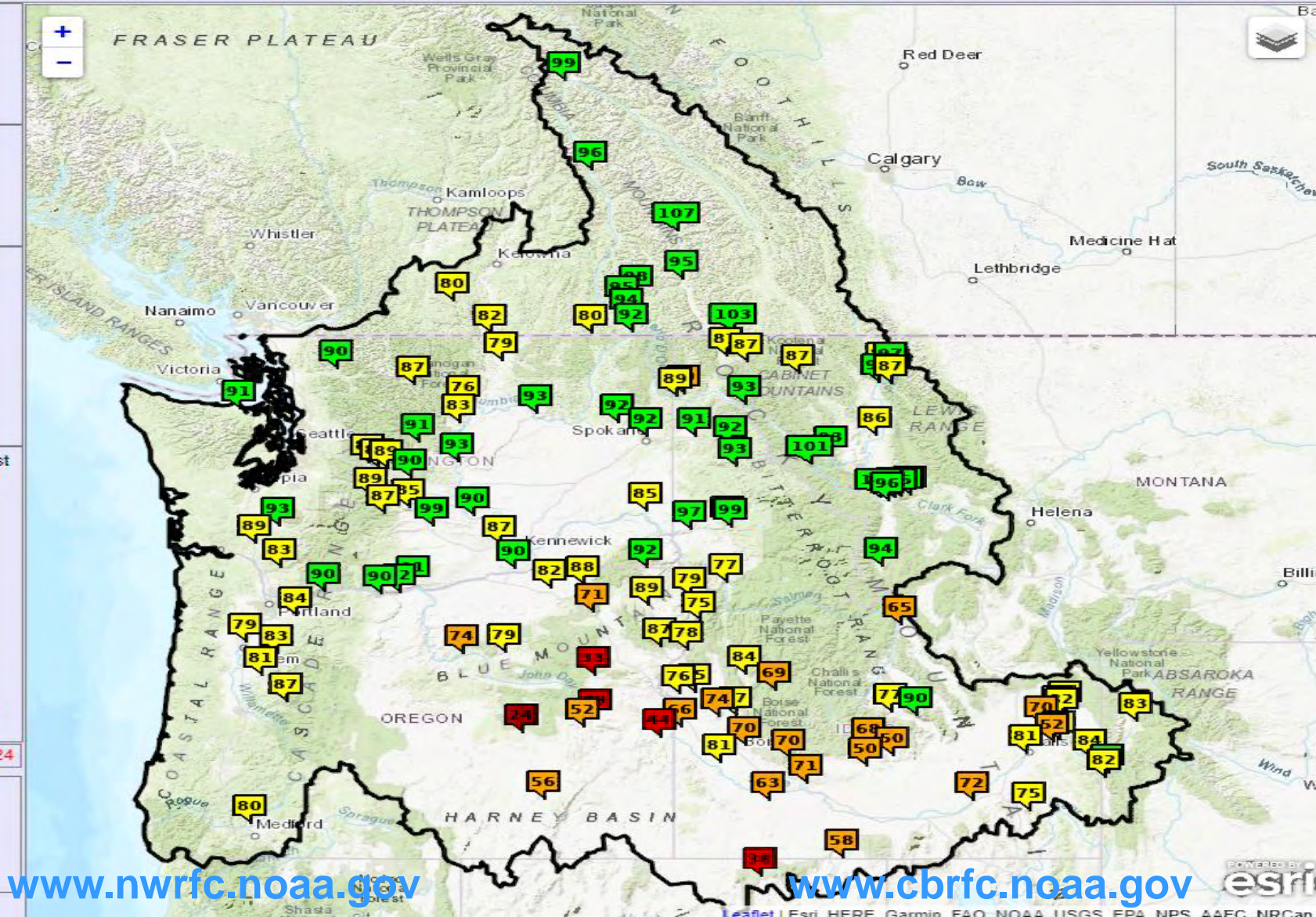
- ☐ No Normal, No data
- ☐ < 25
- ☐ 25-50
- ☐ 50-75
- ☐ 75-90
- ☐ 90-110
- ☐ 110-125
- ☐ 125-150
- ☐ 150-175
- ☐ > 175



Stations Displayed: 124

Water Supply Links

- [Forecast Listing](#)
- [Forecast Report](#)
- [Forecast Report CSV](#)



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