

# Idaho Weather & Climate Outlook

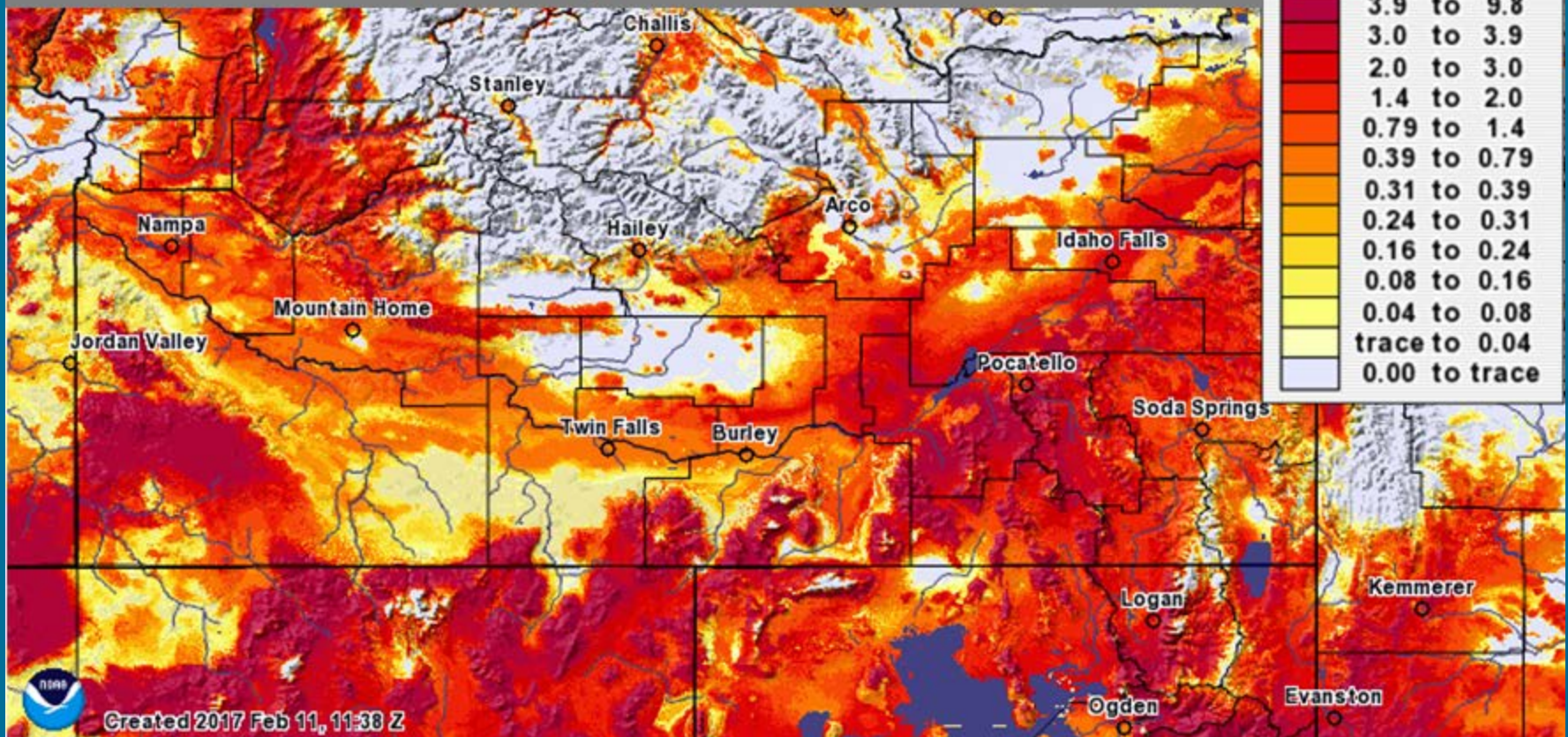
## IDWR Water Supply Committee Meeting

March 9, 2017



# National Operational Hydrologic Remote Sensing Center

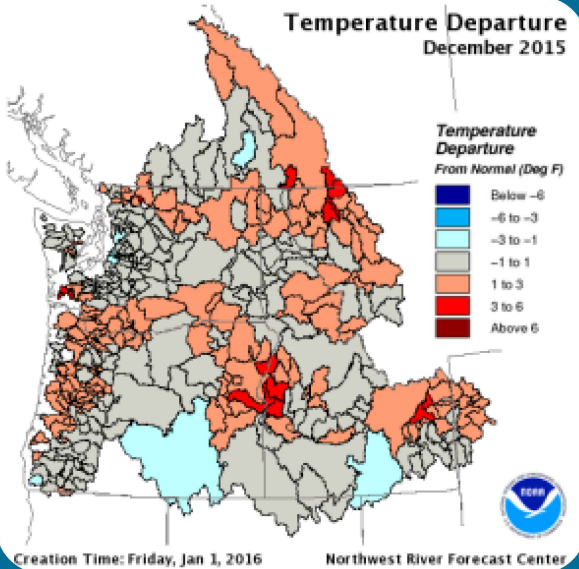
Total Modeled Snowmelt  
February 8-10, 2017



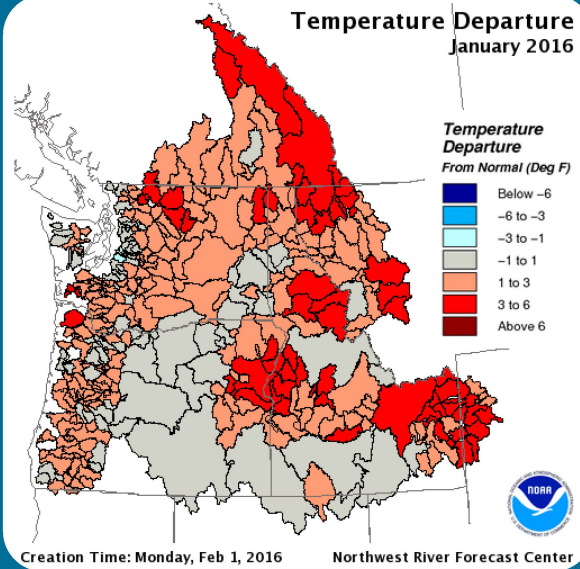


# Temperatures

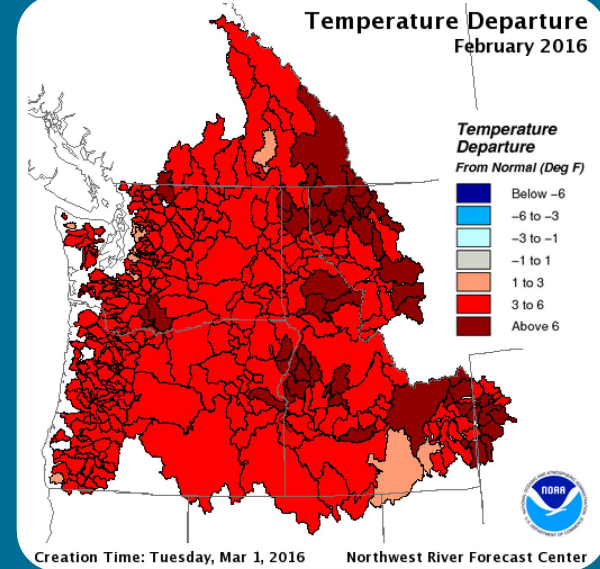
Temperature Departure  
December 2015



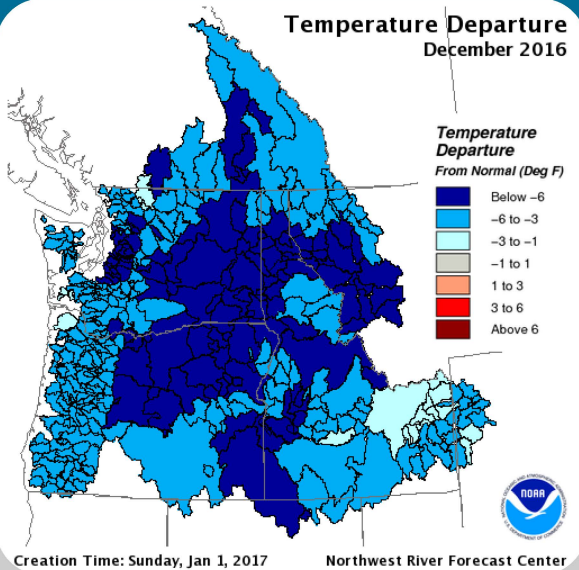
Temperature Departure  
January 2016



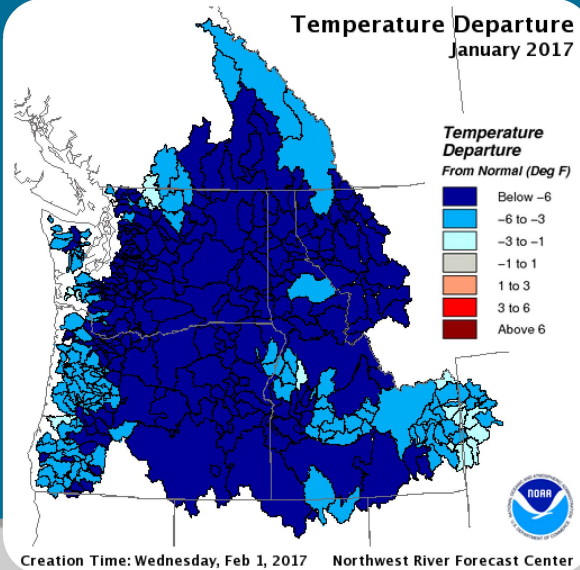
Temperature Departure  
February 2016



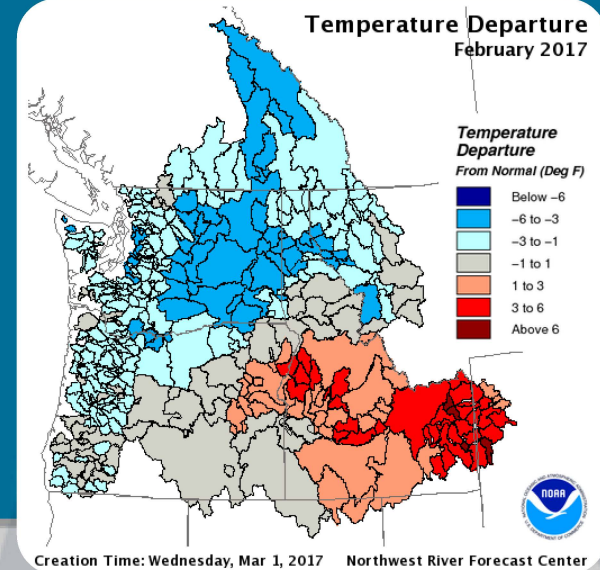
Temperature Departure  
December 2016



Temperature Departure  
January 2017



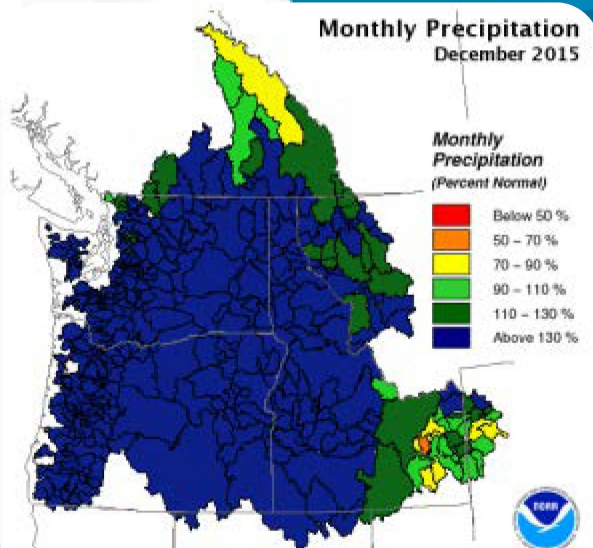
Temperature Departure  
February 2017





# Precipitation

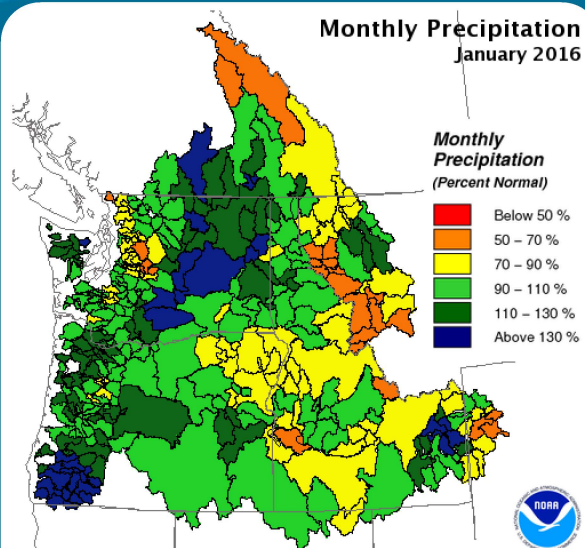
Monthly Precipitation  
December 2015



Creation Time: Friday, Jan 1, 2016

Northwest River Forecast Center

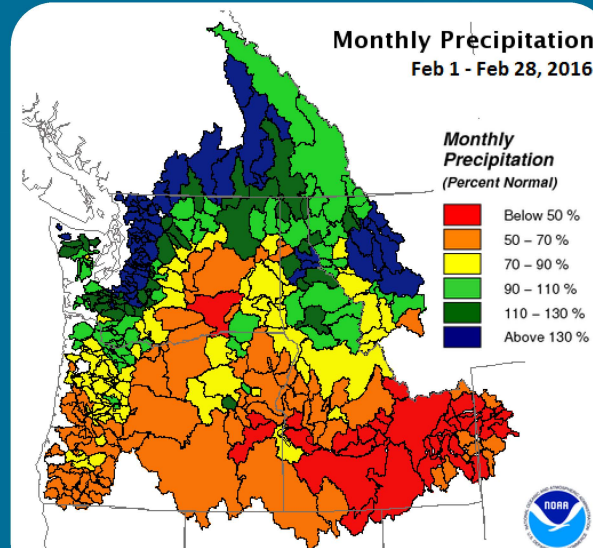
Monthly Precipitation  
January 2016



Creation Time: Monday, Feb 1, 2016

Northwest River Forecast Center

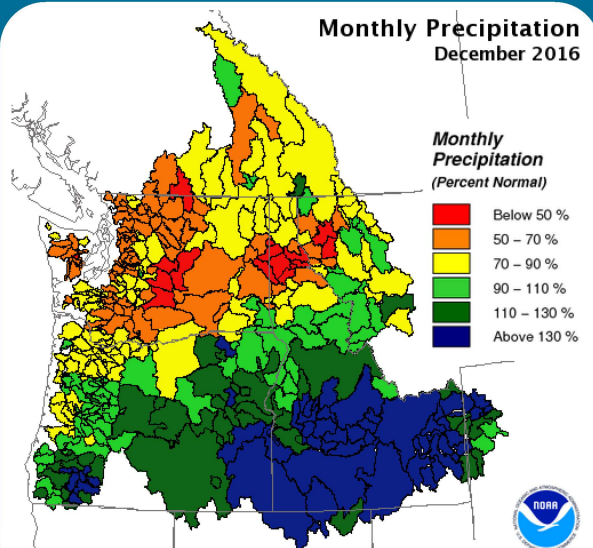
Monthly Precipitation  
Feb 1 - Feb 28, 2016



Creation Time: Monday, Feb 29, 2016

Northwest River Forecast Center

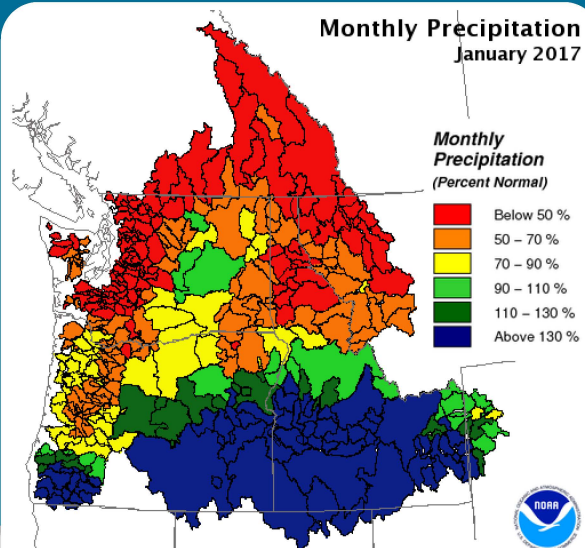
Monthly Precipitation  
December 2016



Creation Time: Sunday, Jan 1, 2017

Northwest River Forecast Center

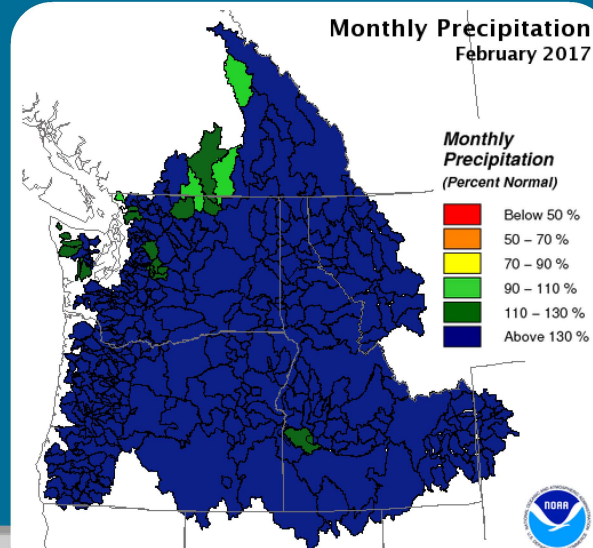
Monthly Precipitation  
January 2017



Creation Time: Wednesday, Feb 1, 2017

Northwest River Forecast Center

Monthly Precipitation  
February 2017



Creation Time: Wednesday, Mar 1, 2017

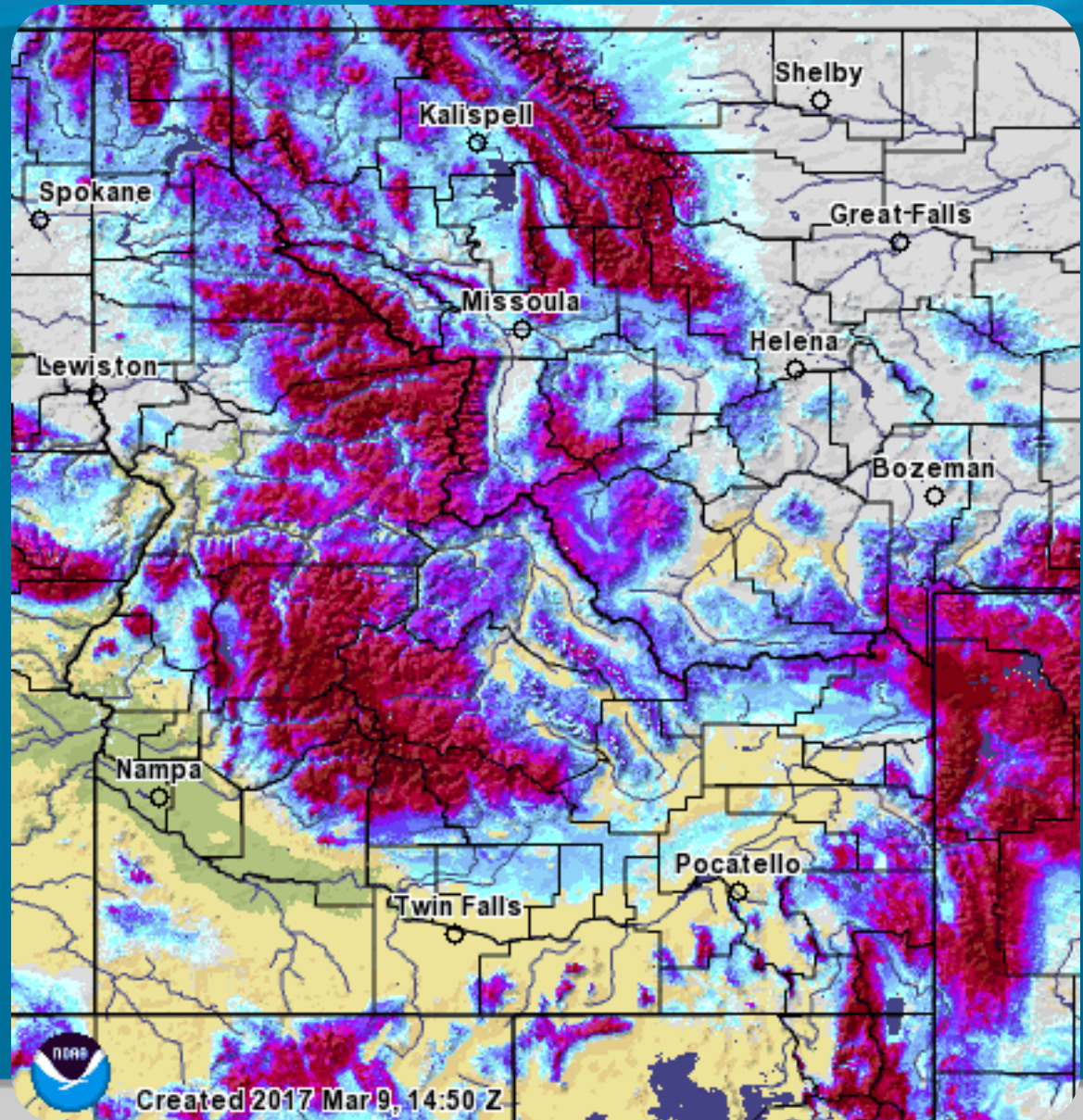
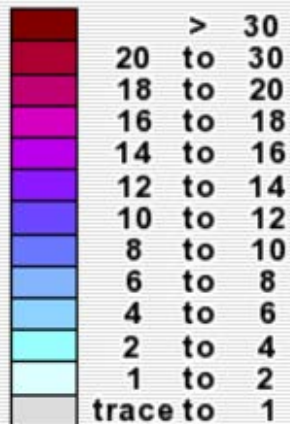
Northwest River Forecast Center



# Idaho Snowpack

**2017**  
**March 9<sup>th</sup>**

Inches of  
water  
equivalent

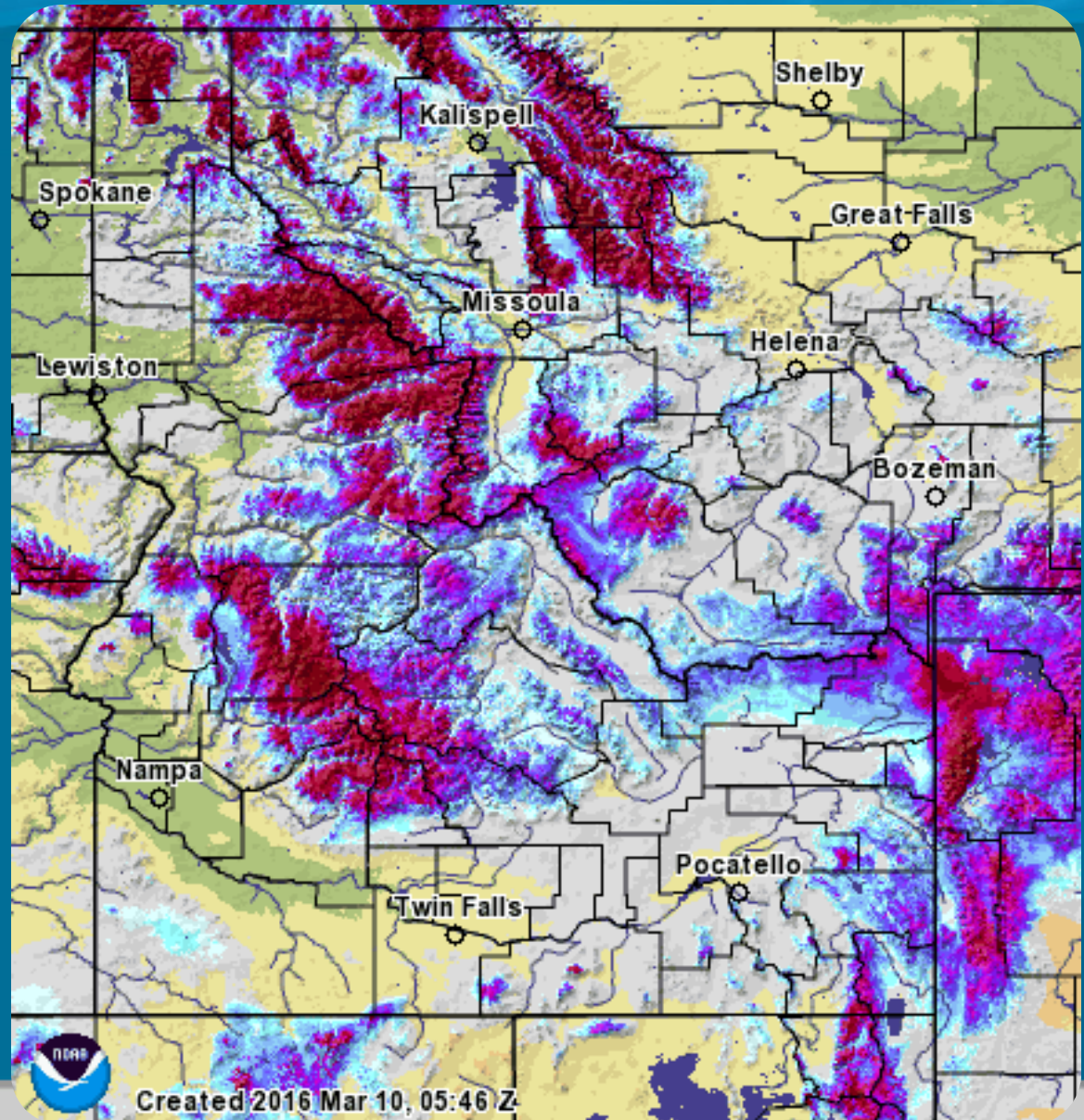
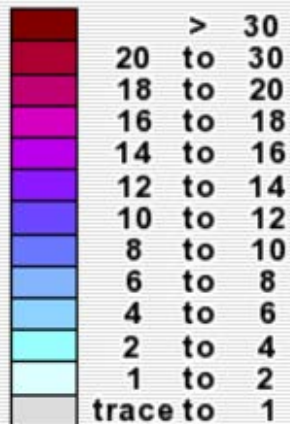




# Idaho Snowpack

**2016**  
**March 9<sup>th</sup>**

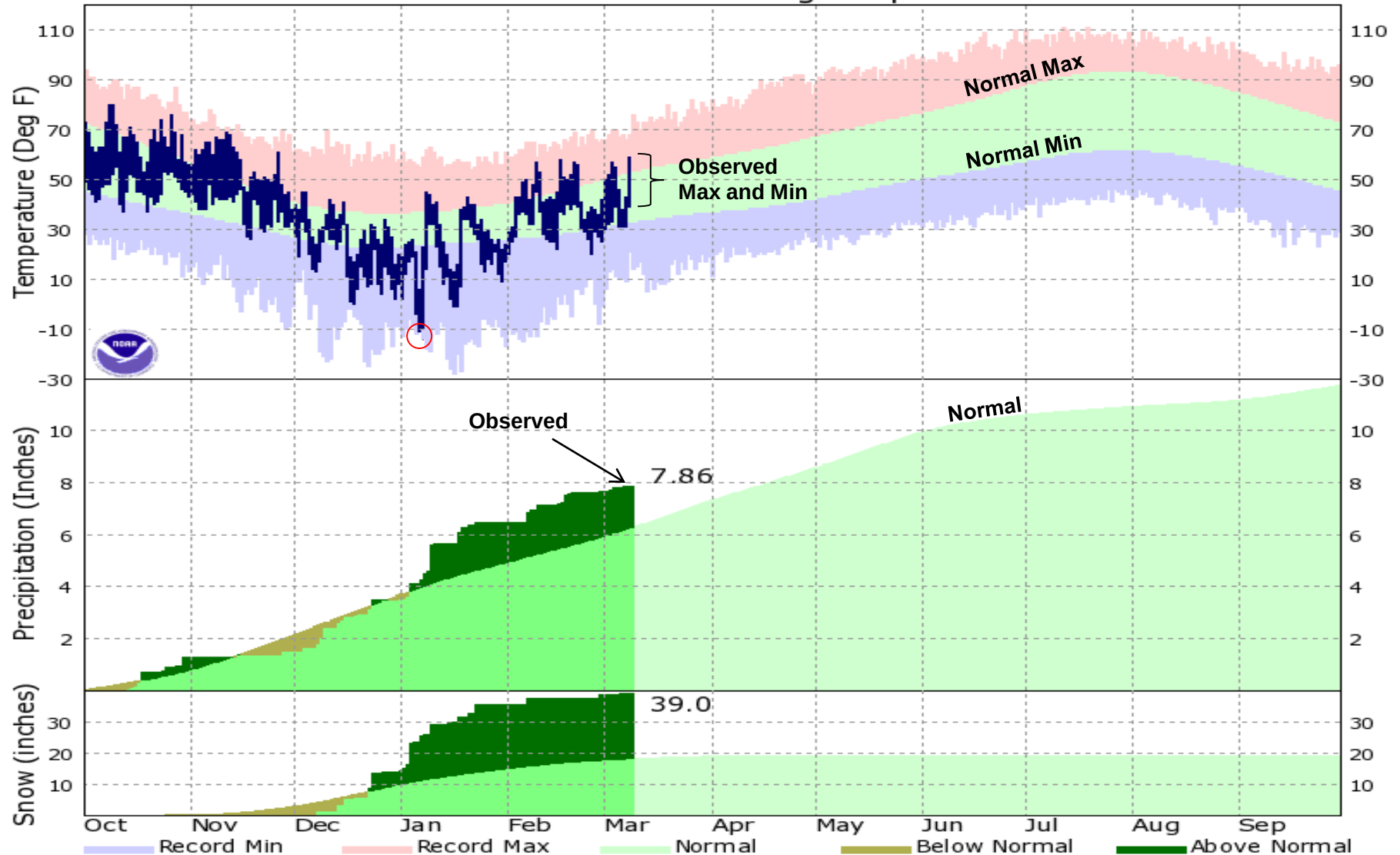
Inches of  
water  
equivalent





# Temperature and Precipitation at Boise

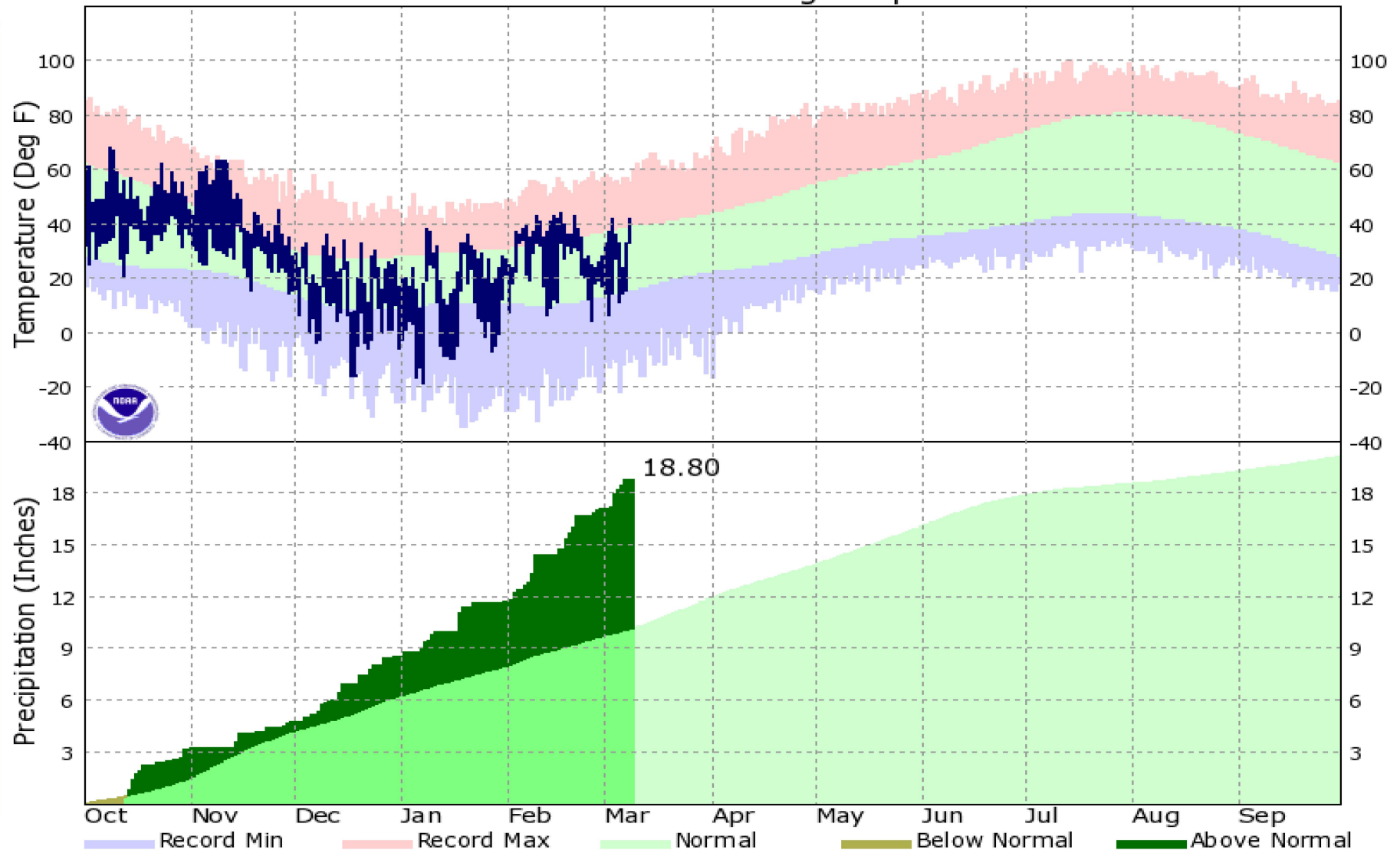
KBOI - Oct 2016 Through Sep 2017





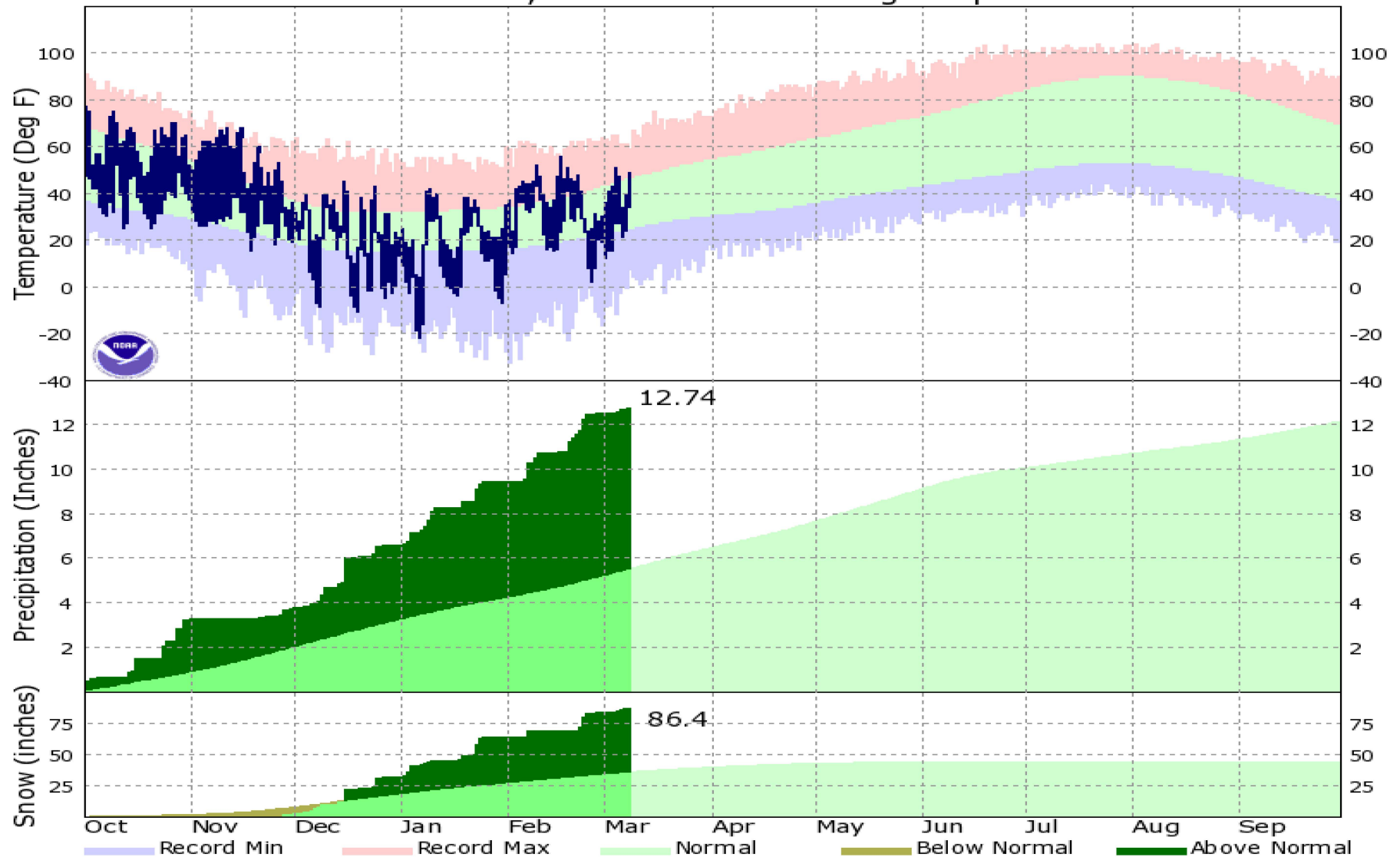
# Temperature and Precipitation at McCall

KMYL - Oct 2016 Through Sep 2017



# Temperature and Precipitation at Pocatello

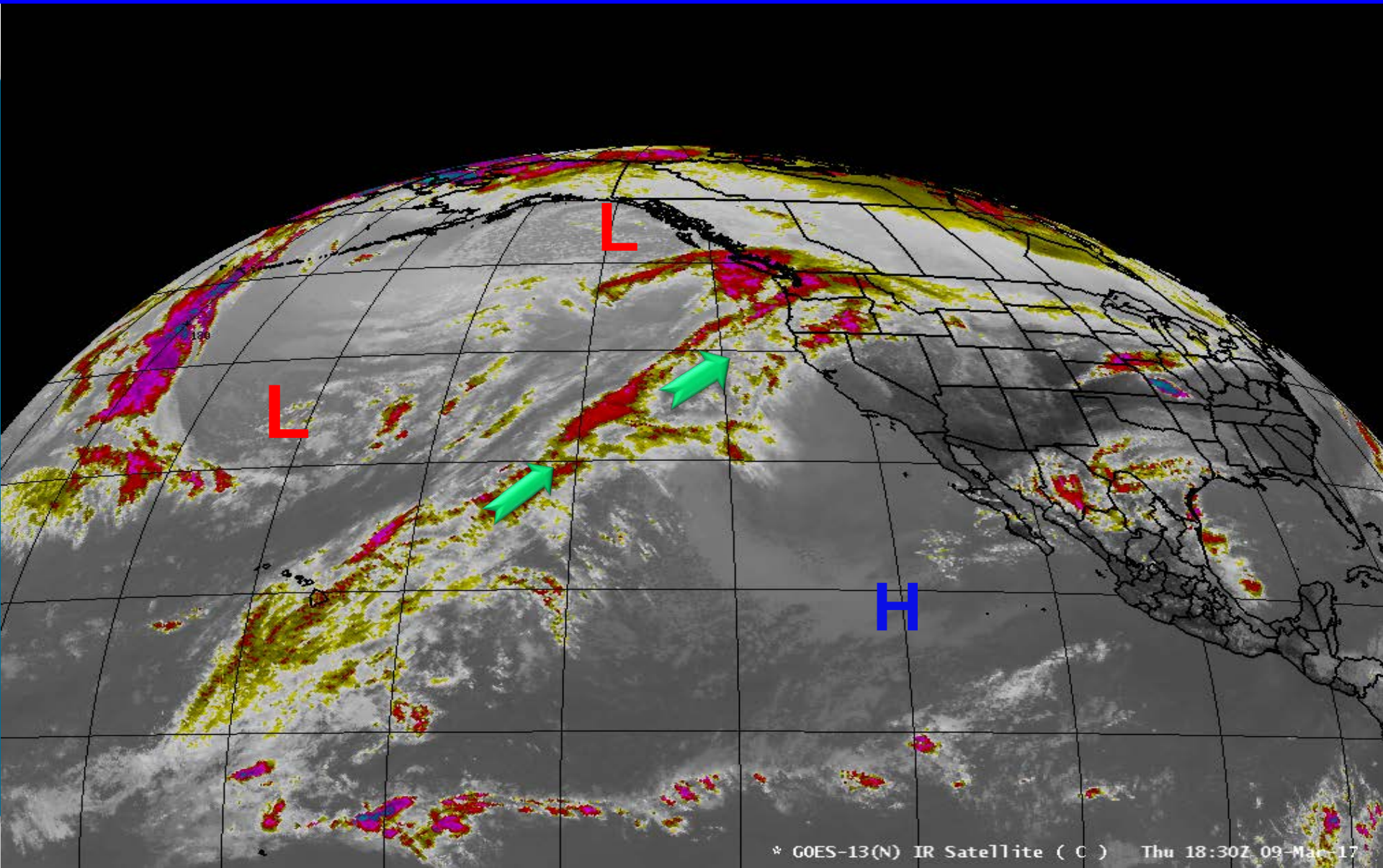
POCATELLO, ID - Oct 2016 Through Sep 2017





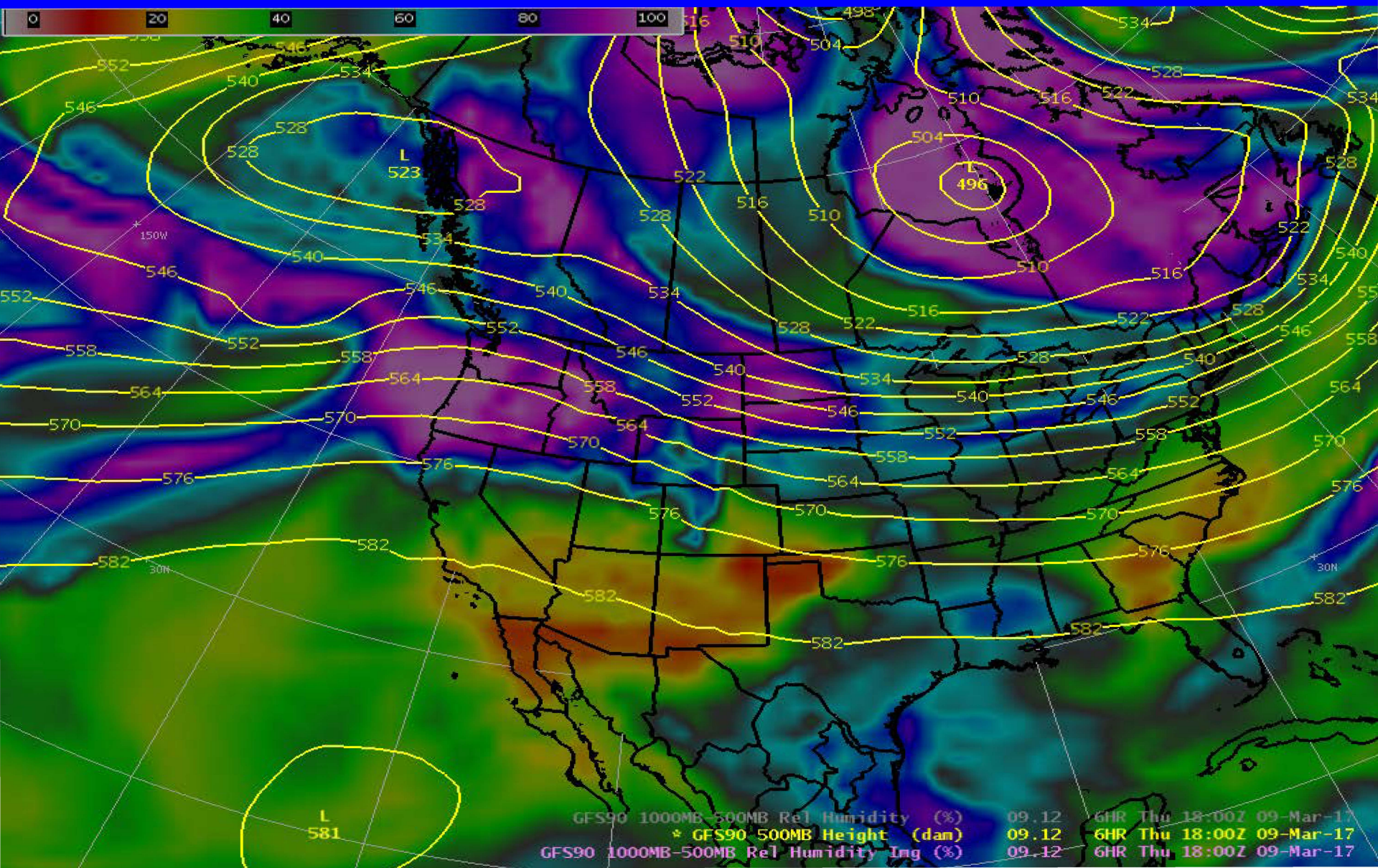
# Thursday - Mar 9

## IR Satellite Imagery



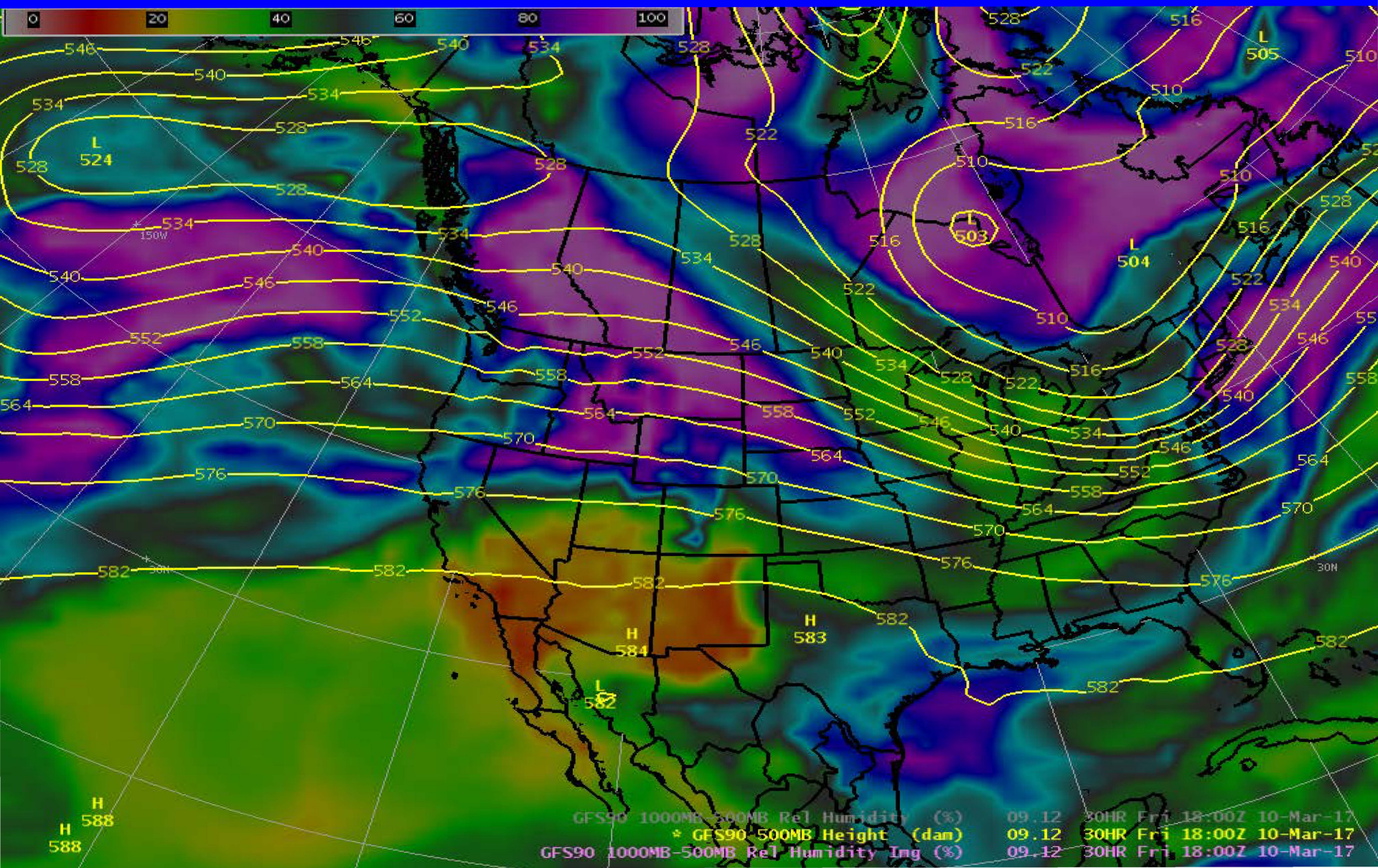


# Thursday, March 9



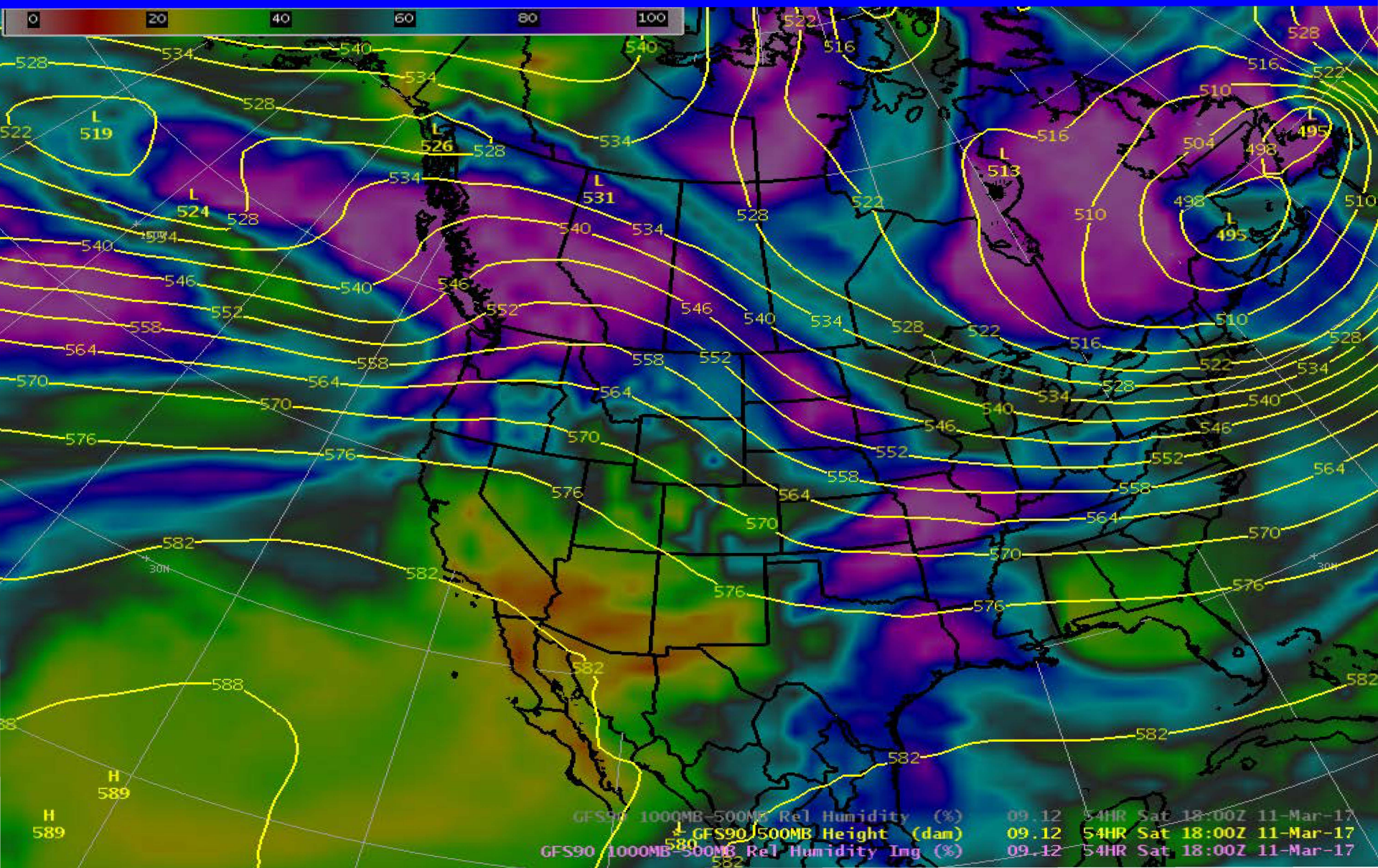


# Friday, March 10



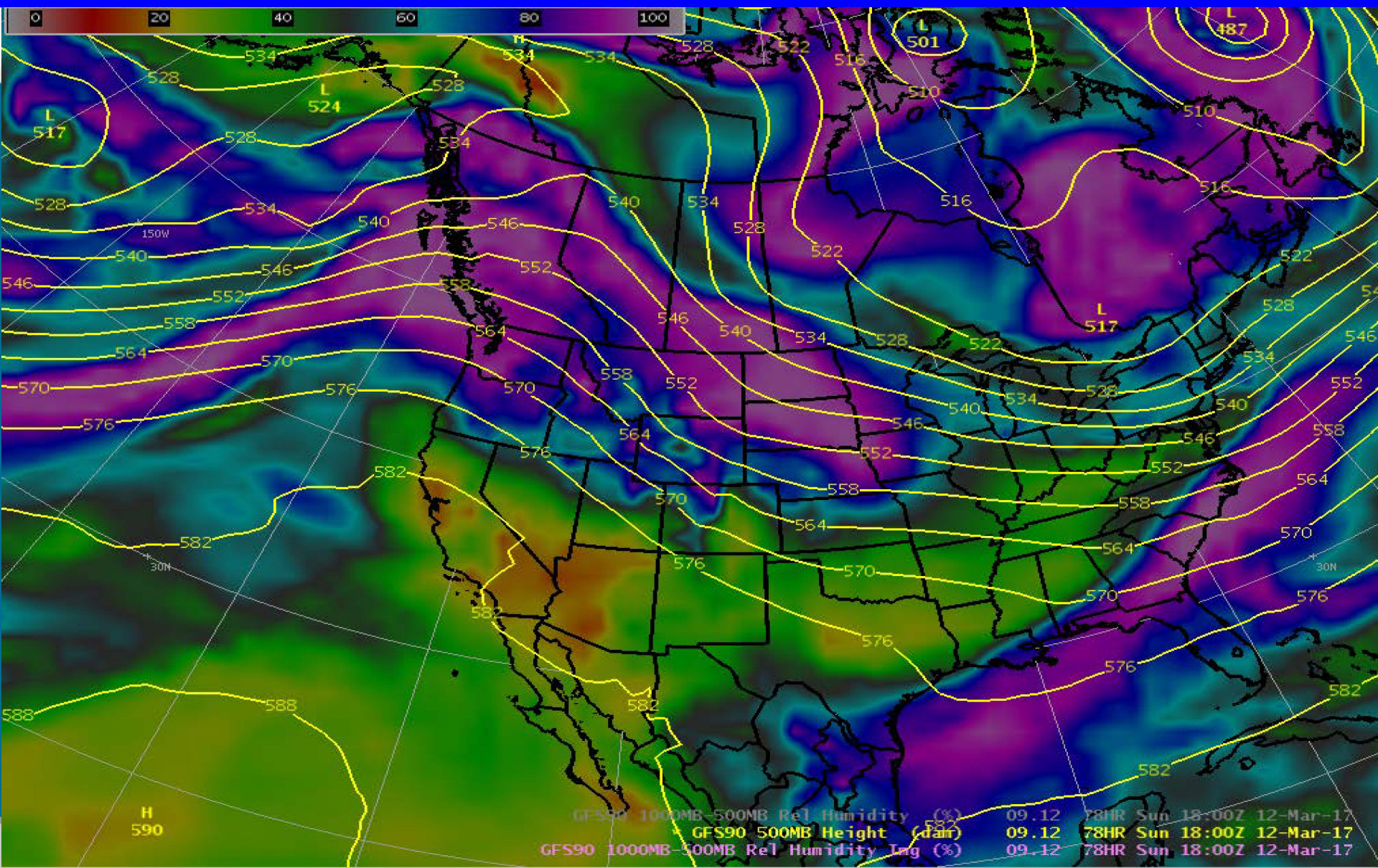


# Saturday, March 11



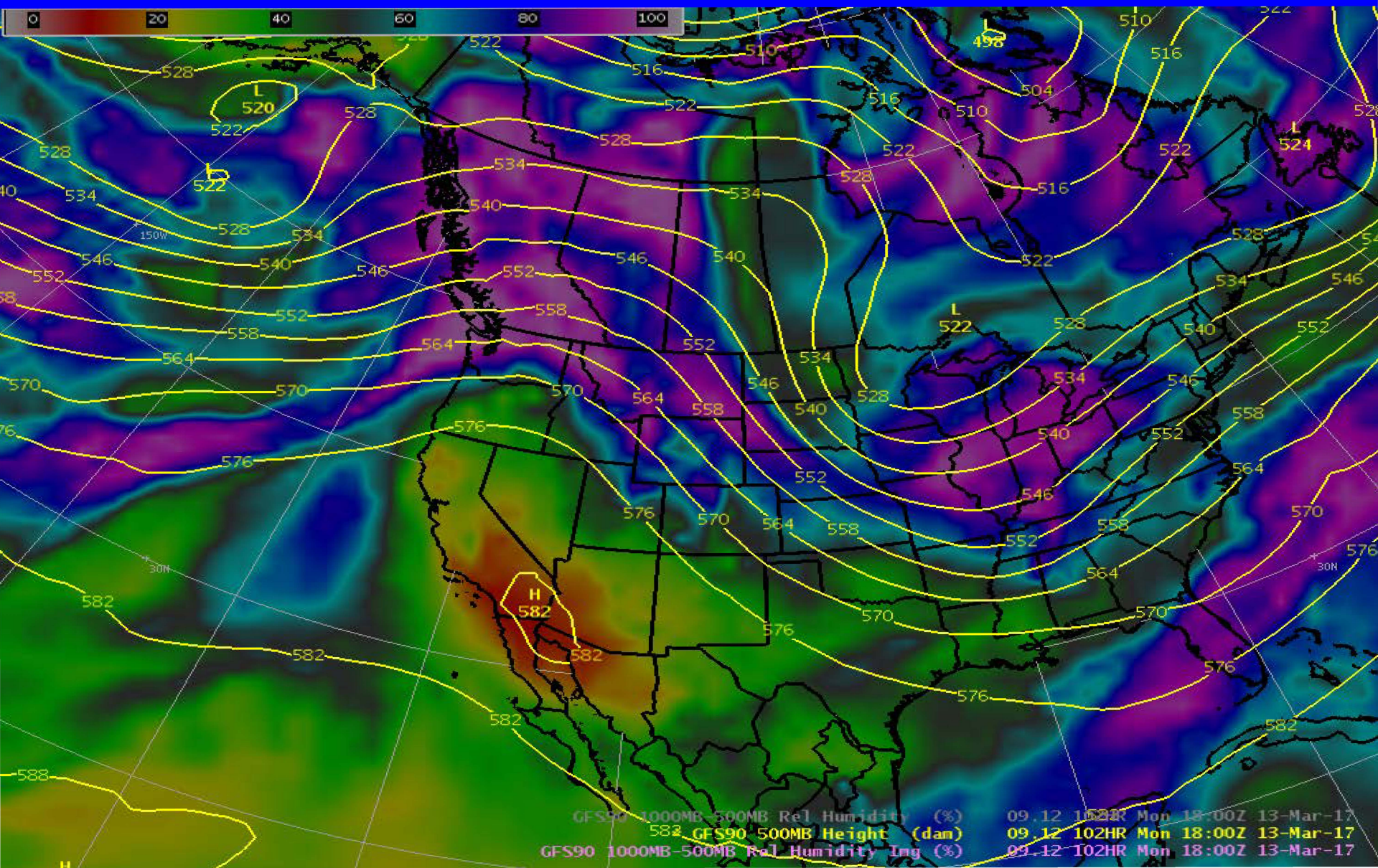


# Sunday, March 12



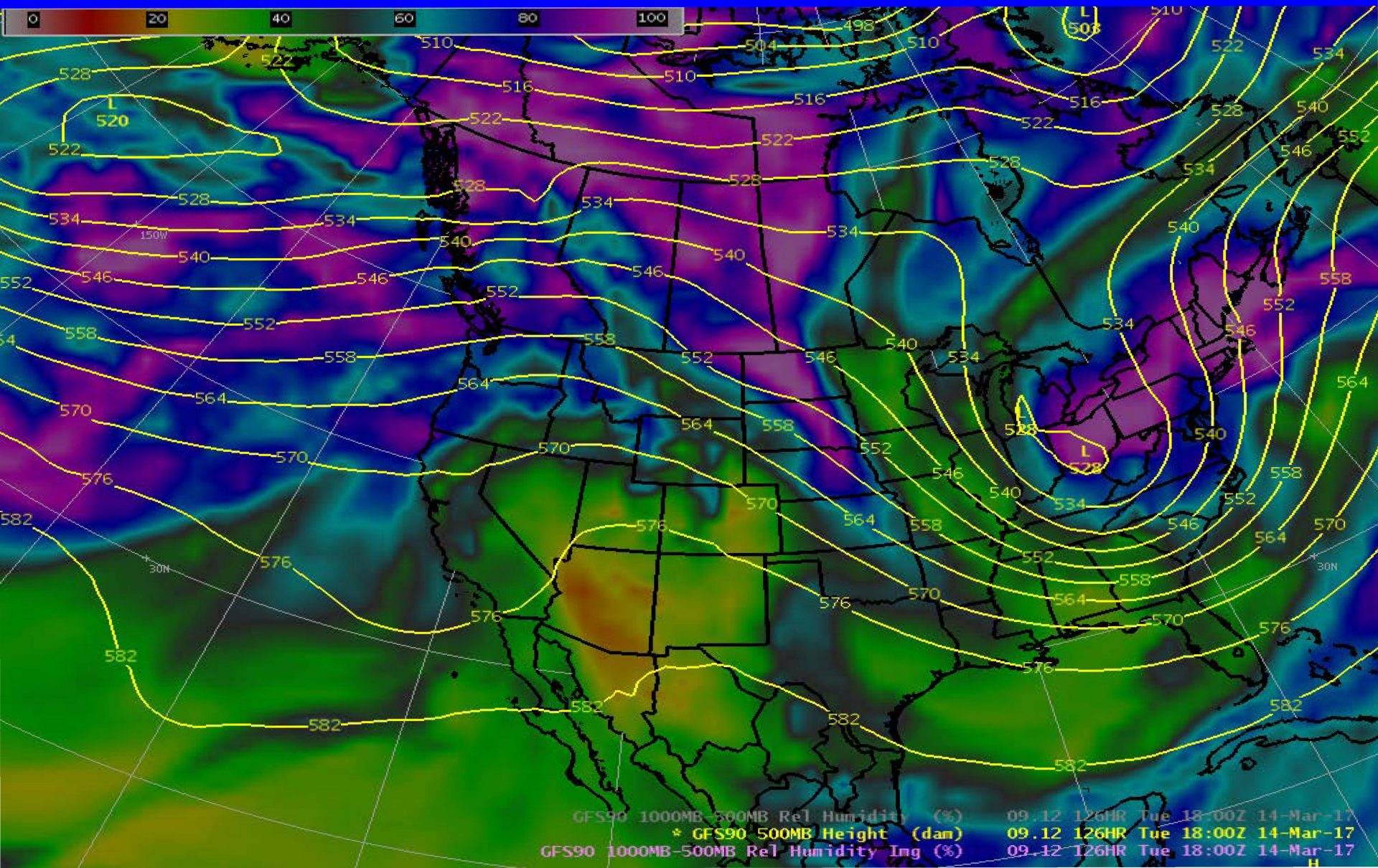


# Monday, March 13



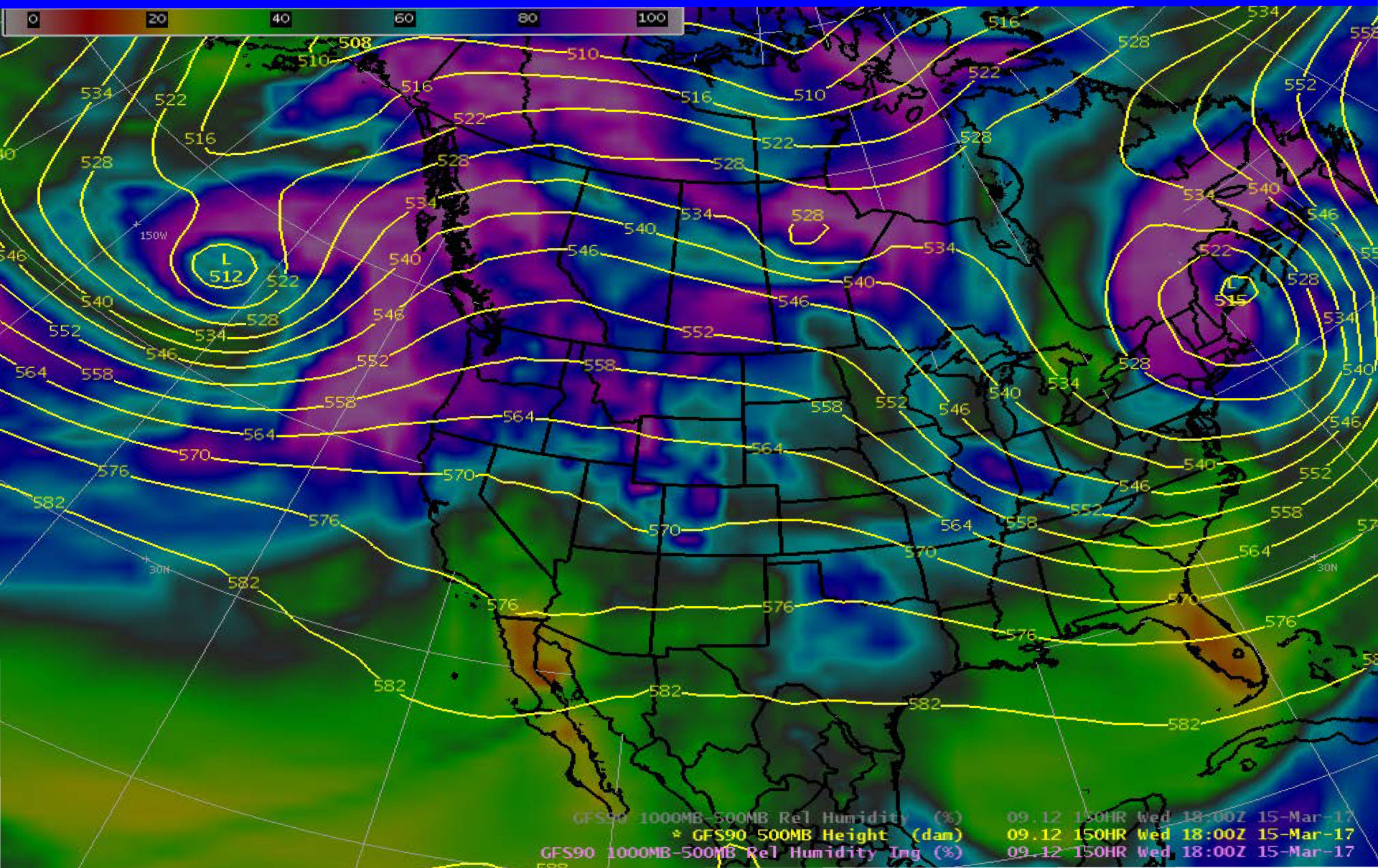


# Tuesday, March 14



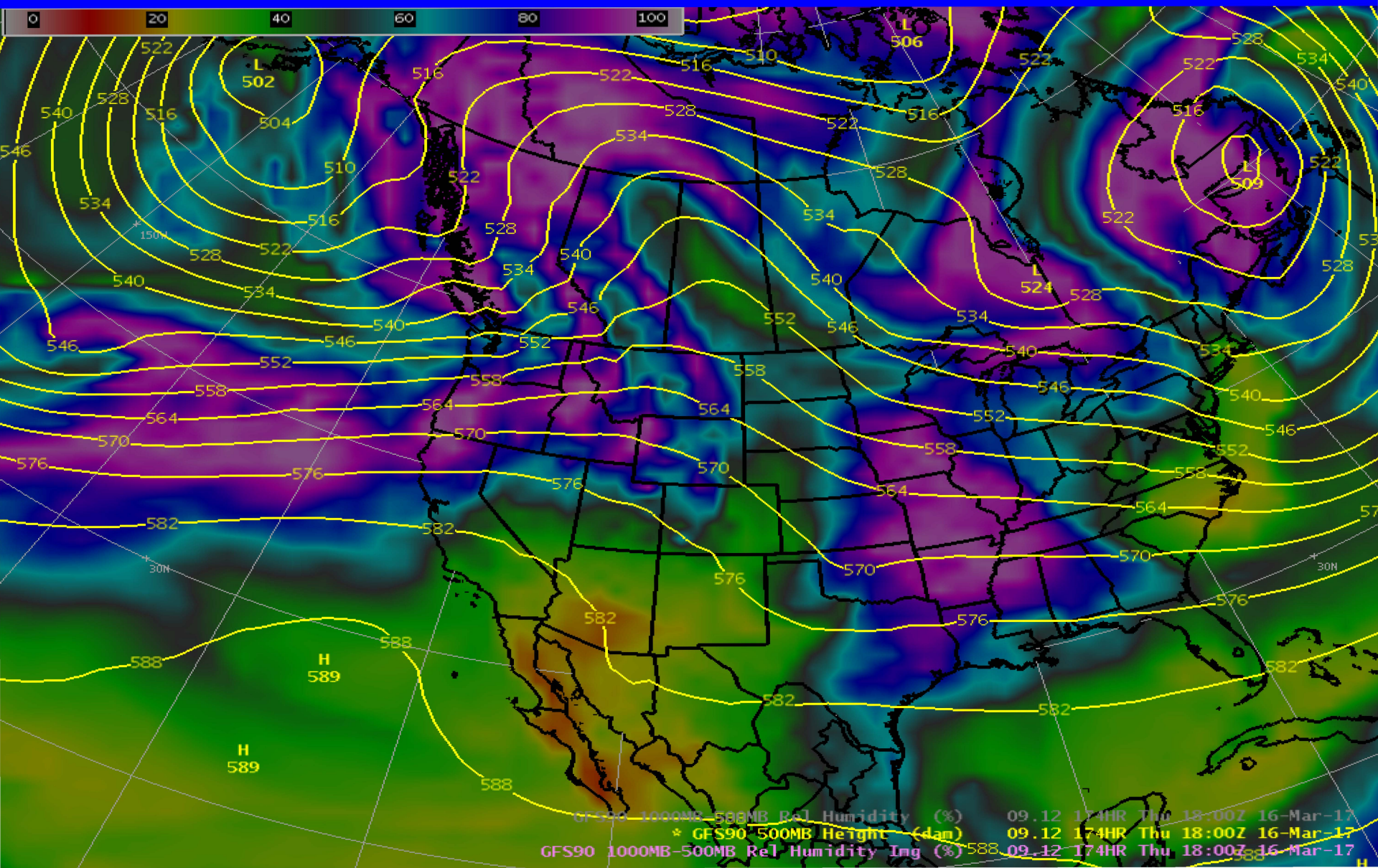


# Wednesday, March 15





# Thursday, March 16



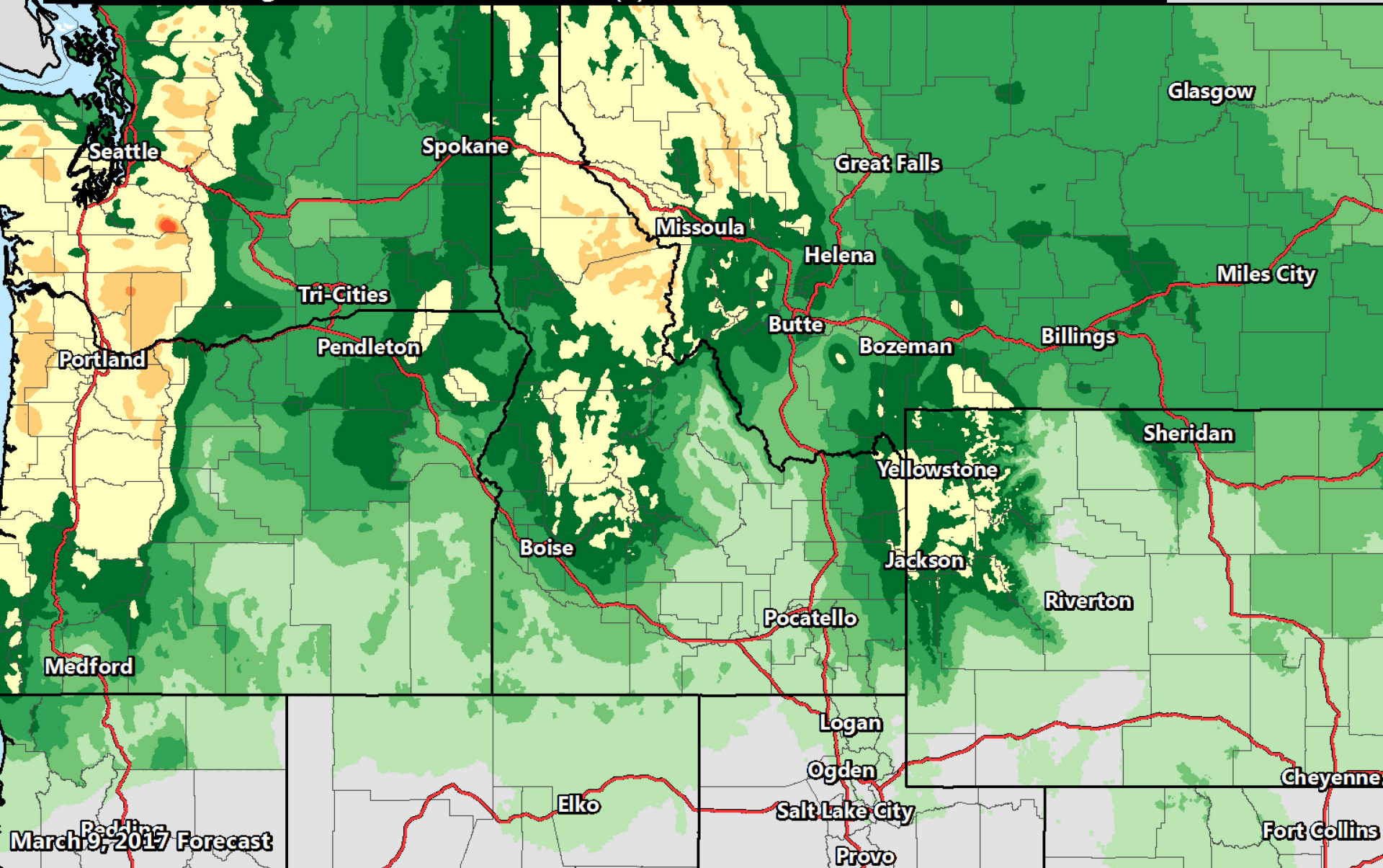




# Precipitation Forecast

Through 4PM 03/11/17

(in) .01 .10 .25 .50 1 2 3 4 6 8 10 15



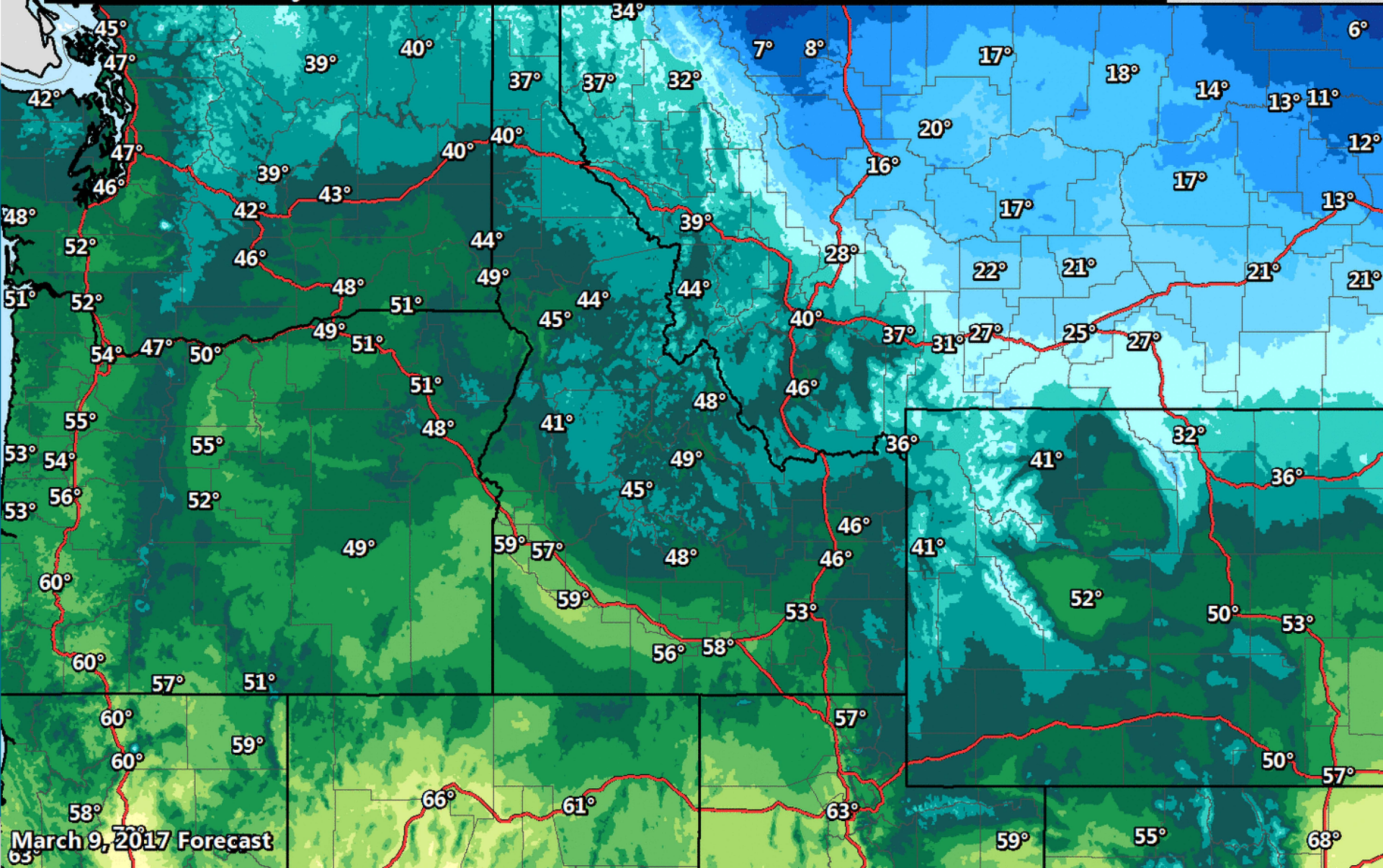
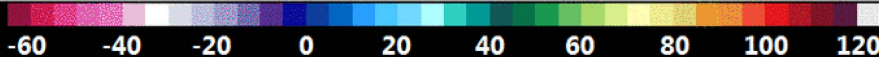
March 9, 2017 Forecast





# High Temperature Forecast

Thursday, Mar 09, 2017



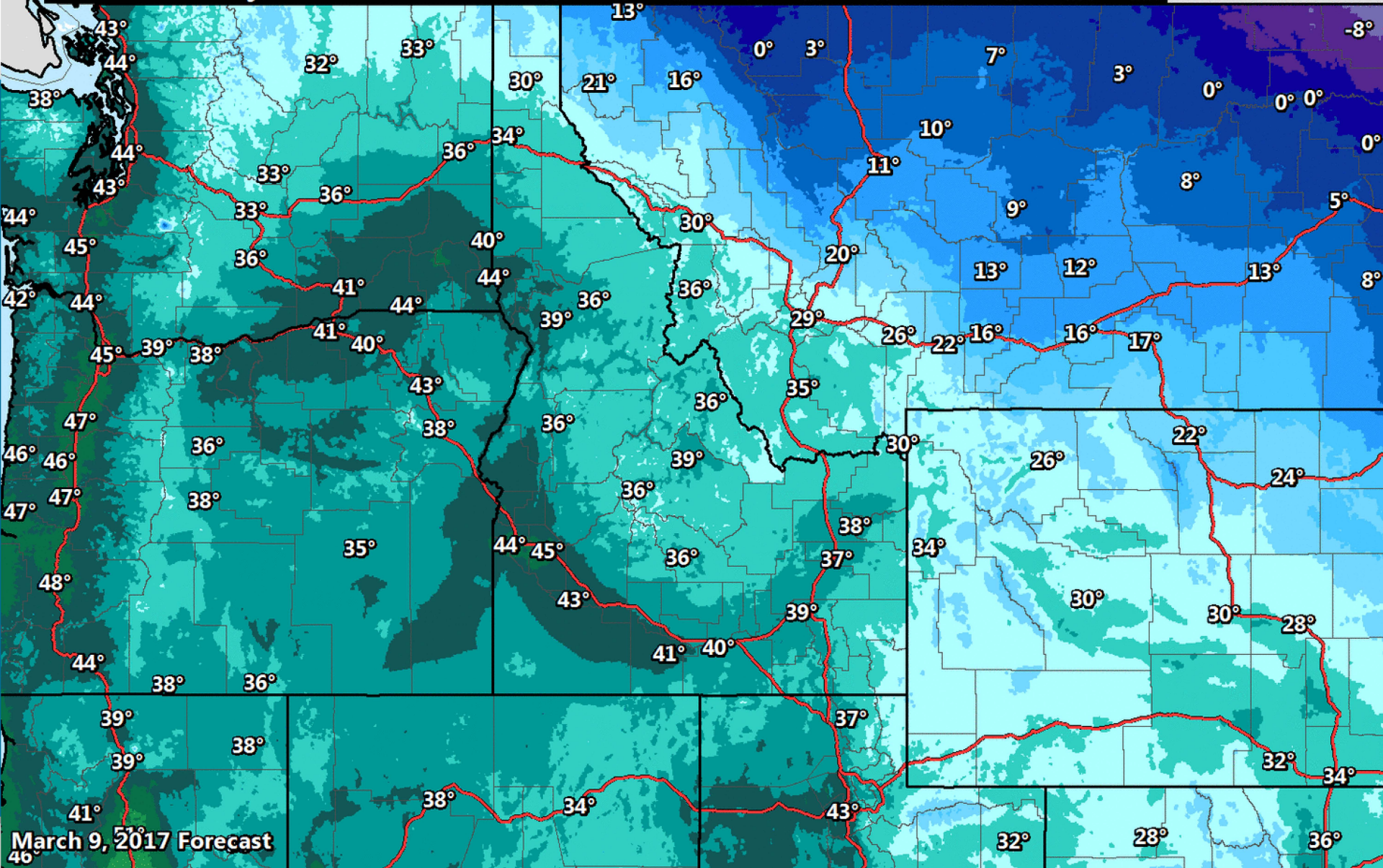
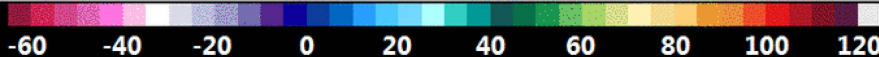
March 9, 2017 Forecast





# Low Temperature Forecast

Friday, Mar 10, 2017

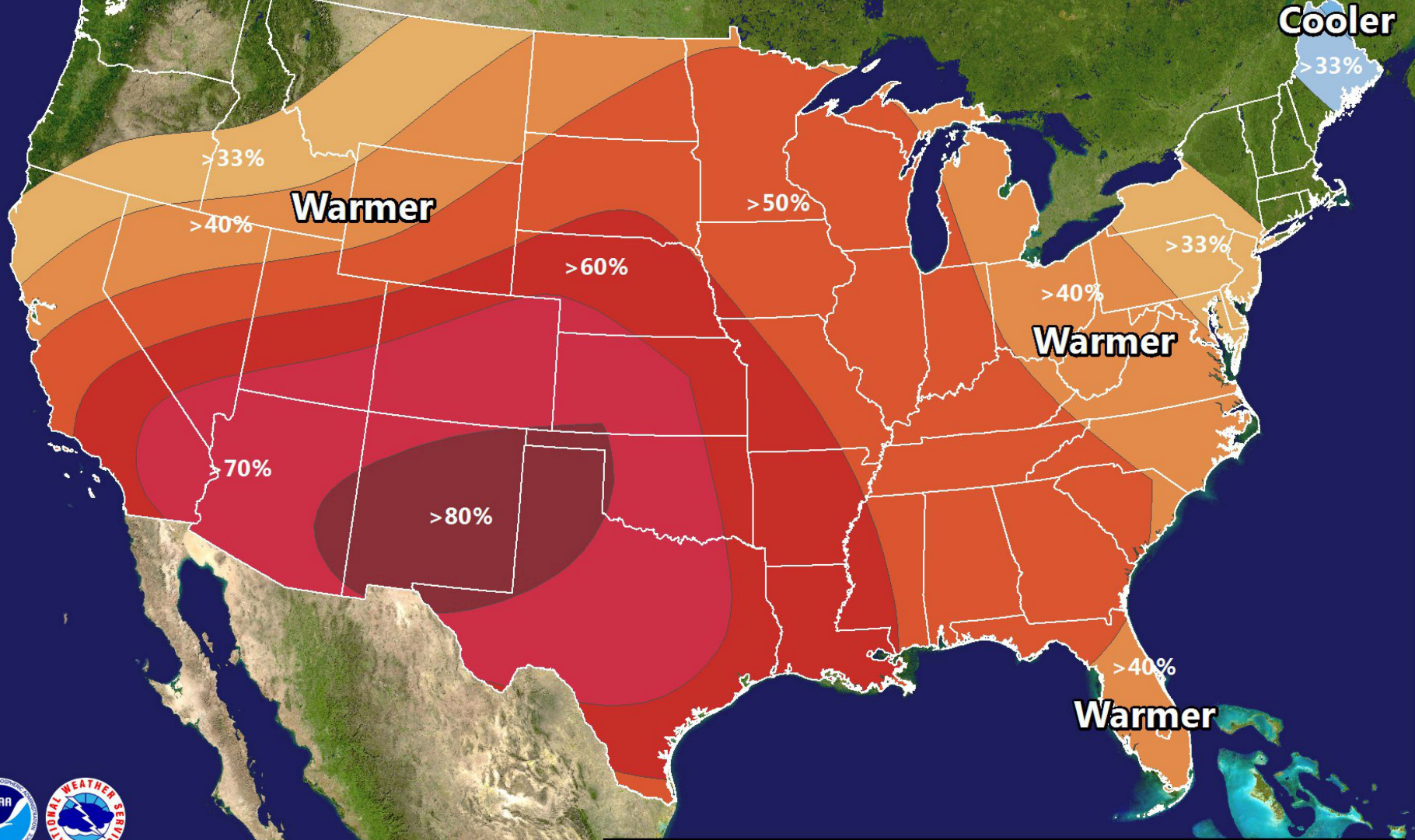


March 9, 2017 Forecast  
46°



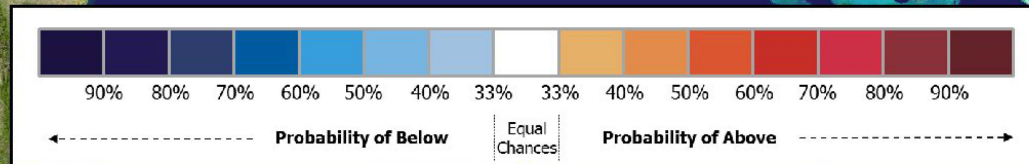
# 8-14 Day Temperature Outlook

Mar 16 - Mar 22, 2017



Climate Prediction Center

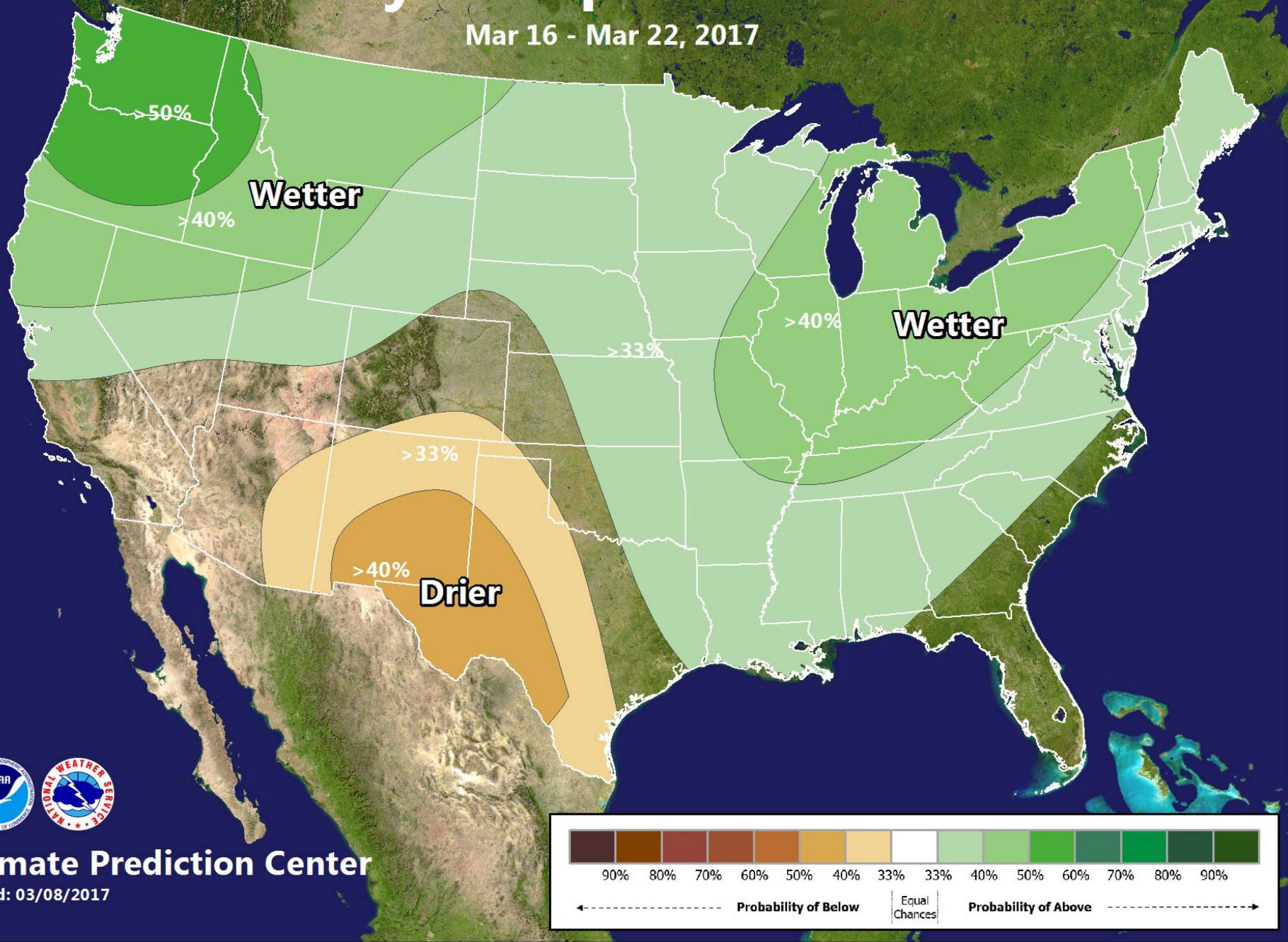
Issued: 03/08/2017





# 8-14 Day Precipitation Outlook

Mar 16 - Mar 22, 2017



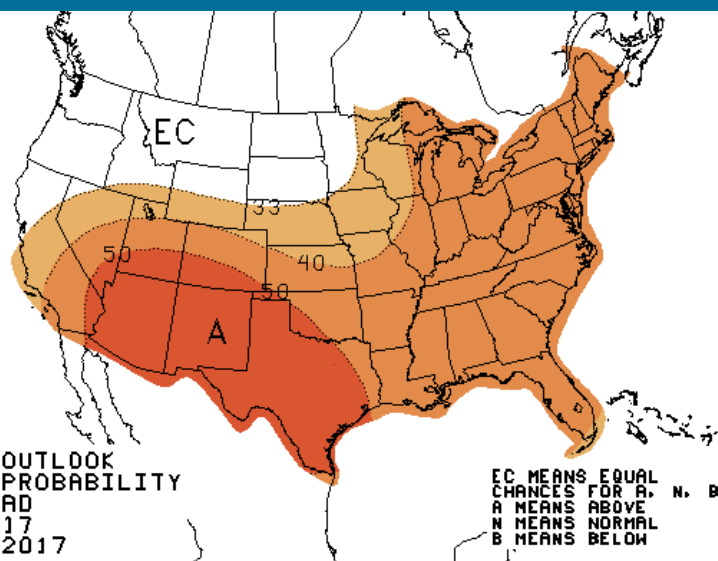
Climate Prediction Center

Issued: 03/08/2017

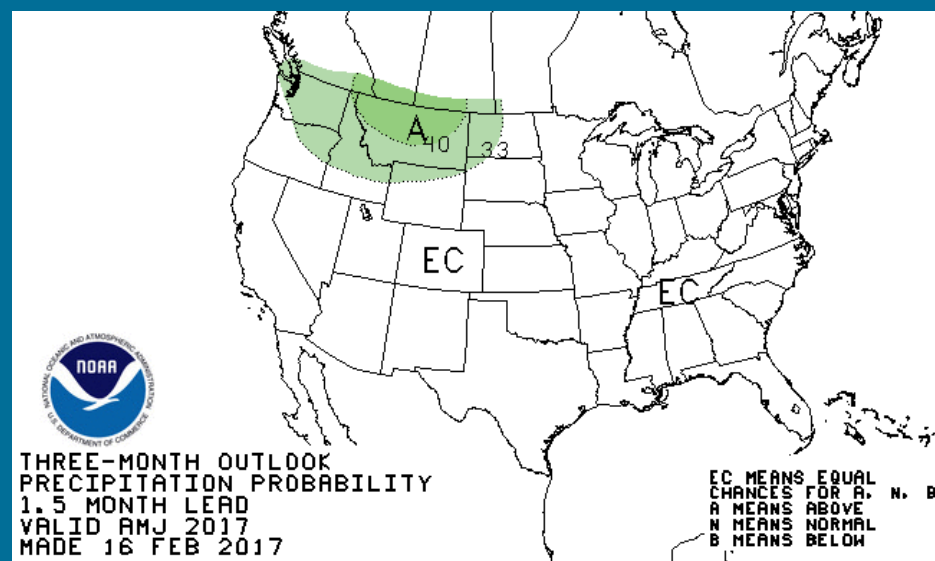


# Outlook for Apr - May - Jun

## Temperature



## Precipitation







# Northwest River Forecast Center Water Supply Forecasts



River and Hydrology

Water Supply

Observations

Weather Forecasts

Climate

NWRFC

Home

Zoom Out

--- Quick Zooms ---

Permalink

Search

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)

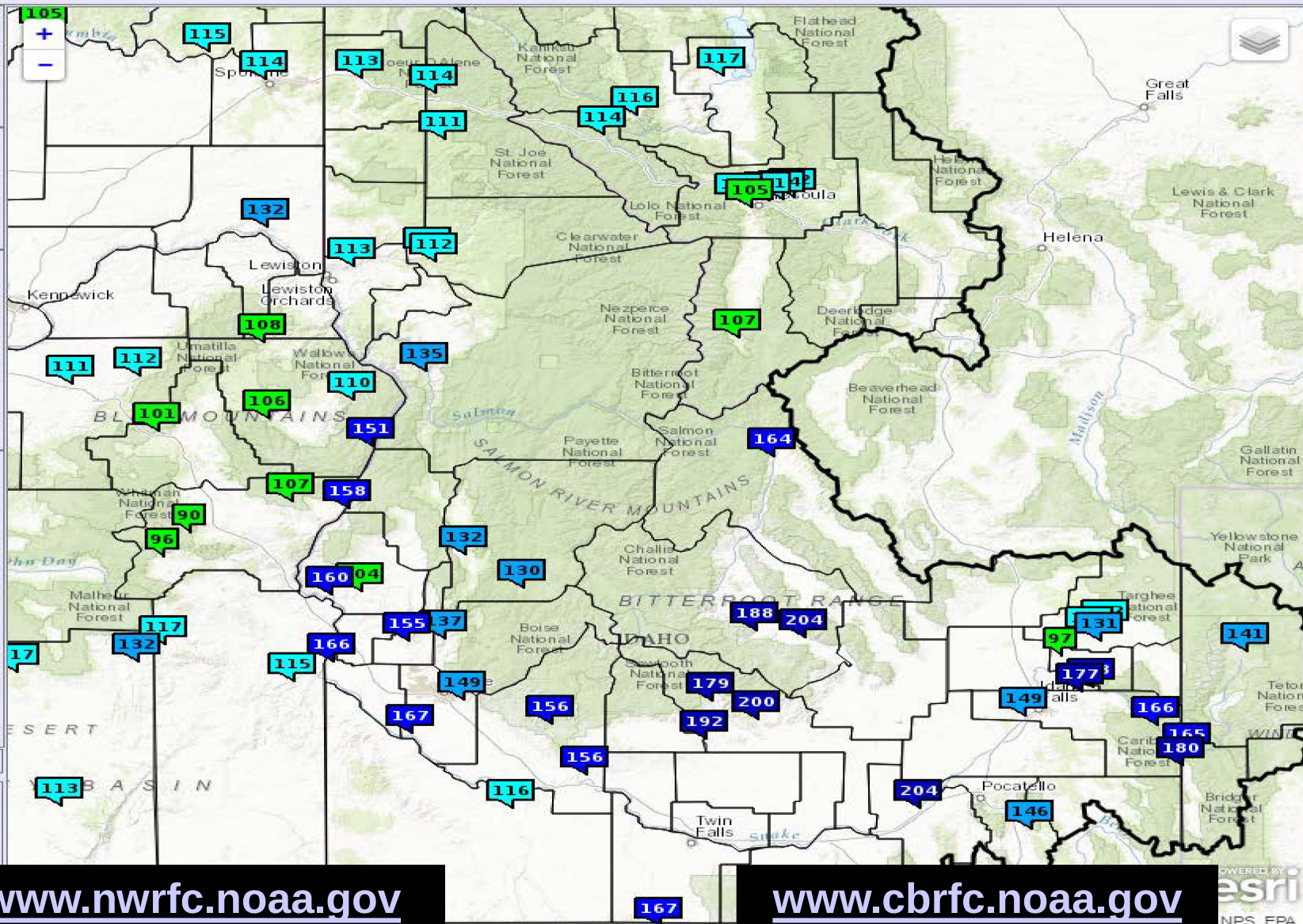
- ☐ No Normal, No data
- ☐ < 25
- ☐ 25-50
- ☐ 50-75
- ☐ 75-90
- ☐ 90-110
- ☐ 110-125
- ☐ 125-150
- ☐ 150-175
- ☐ > 175



Stations Displayed: 69

Water Supply Links

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



[www.nwrfc.noaa.gov](http://www.nwrfc.noaa.gov)

[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

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# NWRFC Water Supply

## SNAKE - NEAR HEISE (HEI1) Forecasts for Water Year 2017

### Official Forecast

10 days QPF: Ensemble: 2017-03-08 Issued: 2017-03-08

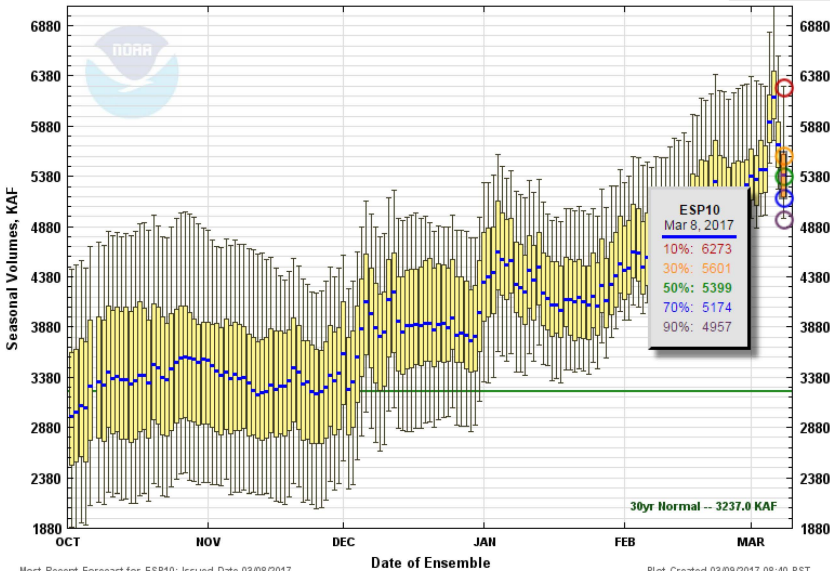
| Forecast Period | Forecasts Are in KAF |      |           |      | 30 Year Average (1981-2010) |
|-----------------|----------------------|------|-----------|------|-----------------------------|
|                 | 90 %                 | 50 % | % Average | 10 % |                             |
| APR-SEP         | 5700                 | 6182 | 163       | 7174 | 3785                        |
| APR-JUL         | 4957                 | 5399 | 167       | 6273 | 3237                        |
| JAN-SEP         | 6528                 | 6993 | 161       | 7964 | 4338                        |
| JAN-JUL         | 5750                 | 6191 | 163       | 7070 | 3790                        |
| OCT-SEP         | 7323                 | 7787 | 156       | 8759 | 4982                        |

5 days QPF: Ensemble: 2017-03-08 Issued: 2017-03-08

|         |      |      |     |      |      |
|---------|------|------|-----|------|------|
| APR-SEP | 5767 | 6294 | 166 | 7219 | 3785 |
| APR-JUL | 5012 | 5491 | 170 | 6337 | 3237 |
| JAN-SEP | 6529 | 7087 | 163 | 8016 | 4338 |

### Water Supply Forecasts

SNAKE - NEAR HEISE  
Period APR to JUL -- Water Year 2017



## SNAKE - NEAR HEISE (HEI1) Period Rankings - 1970 to 2017 APR-JUL Normal -- 3237 (KAF)

| Rank | Year | Period Volume (KAF) | Percent of Normal | Exceedance Probability* |
|------|------|---------------------|-------------------|-------------------------|
| 1    | 1997 | 6096.60             | 188               | 2.083 %                 |
| 2    | 2017 | 5398.99             | 167               | 4.167 %                 |
| 3    | 2011 | 5350.00             | 165               | 6.250 %                 |
| 4    | 1971 | 5310.00             | 164               | 8.333 %                 |
| 5    | 1986 | 5263.98             | 163               | 10.417 %                |
| 6    | 1996 | 4931.42             | 152               | 12.500 %                |
| 7    | 1982 | 4884.72             | 151               | 14.583 %                |
| 8    | 1974 | 4883.48             | 151               | 16.667 %                |
| 9    | 1972 | 4551.46             | 141               | 18.750 %                |
| 10   | 1978 | 4306.14             | 133               | 20.833 %                |
| 11   | 1976 | 4274.01             | 132               | 22.917 %                |
| 12   | 1999 | 4254.09             | 131               | 25.000 %                |
| 13   | 1984 | 4239.88             | 131               | 27.083 %                |
| 14   | 1983 | 4175.85             | 129               | 29.167 %                |
| 15   | 2009 | 3987.75             | 123               | 31.250 %                |
| 16   | 2014 | 3911.00             | 121               | 33.333 %                |
| 17   | 1998 | 3839.90             | 119               | 35.417 %                |
| 18   | 1995 | 3804.06             | 118               | 37.500 %                |
| 19   | 1975 | 3761.42             | 116               | 39.583 %                |
| 20   | 2008 | 3650.17             | 113               | 41.667 %                |
| 21   | 2006 | 3578.87             | 111               | 43.750 %                |
| 22   | 1993 | 3465.72             | 107               | 45.833 %                |
| 23   | 1980 | 3356.65             | 104               | 47.917 %                |
| 24   | 1989 | 3325.61             | 103               | 50.000 %                |





# Northwest River Forecast Center Peak Flow Forecast



River and Hydrology

Water Supply

Observations

Weather Forecasts

Climate

NWRFC

10 Day Forecast Points

120 Day Forecast

Peak Flow

Columbia Low Stage Forecast

Minimum Flow

Northwest Flood Outlook

Northwest Hydrologic Outlook

River Conditions

☐ NWS HSAs

☒ Counties

Map Type

Forecast Status:

☒ Peak Flow

☐ Minimum Flow

Legend

Probability of  
Exceeding Flood Stage

forecast for 2017-03-08  
thru July 1

0 - No Thresholds

1 - 95%

2 - 90%

3 - 70%

4 - 50%

5 - 30%

6 - 10%

7 - 5%

8 - Very Low

Stations Displayed: 85

Related Links

[Peak Summary](#)

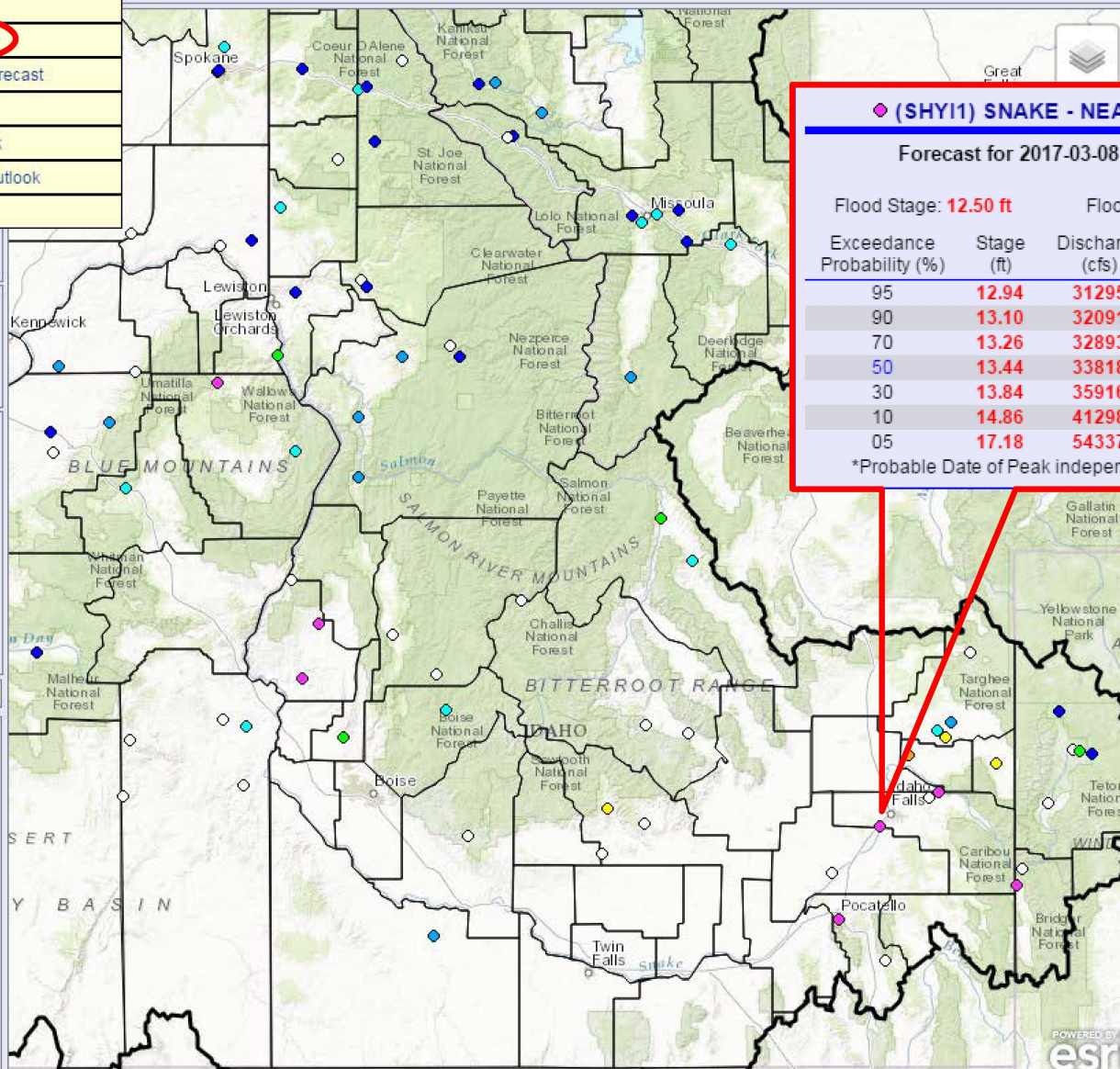
[Peak Report](#)

[Description](#)

--- Quick Zooms ---

Ensemble Date: 2017-03-08

[Permalink](#)



## ◆ (SHY11) SNAKE - NEAR SHELLEY

Forecast for 2017-03-08 thru July 1

Flood Stage: **12.50 ft**

Flood Flow: **29116 cfs**

| Exceedance<br>Probability (%) | Stage<br>(ft) | Discharge<br>(cfs) | *Probable Date<br>of Peak |
|-------------------------------|---------------|--------------------|---------------------------|
| 95                            | <b>12.94</b>  | <b>31295</b>       | 2017-05-20                |
| 90                            | <b>13.10</b>  | <b>32091</b>       | 2017-05-20                |
| 70                            | <b>13.26</b>  | <b>32893</b>       | 2017-05-24                |
| 50                            | <b>13.44</b>  | <b>33818</b>       | 2017-05-29                |
| 30                            | <b>13.84</b>  | <b>35916</b>       | 2017-06-06                |
| 10                            | <b>14.86</b>  | <b>41298</b>       | 2017-06-13                |
| 05                            | <b>17.18</b>  | <b>54337</b>       | 2017-06-15                |

\*Probable Date of Peak independent of Discharge





# Northwest River Forecast Center Peak Flow Forecasts

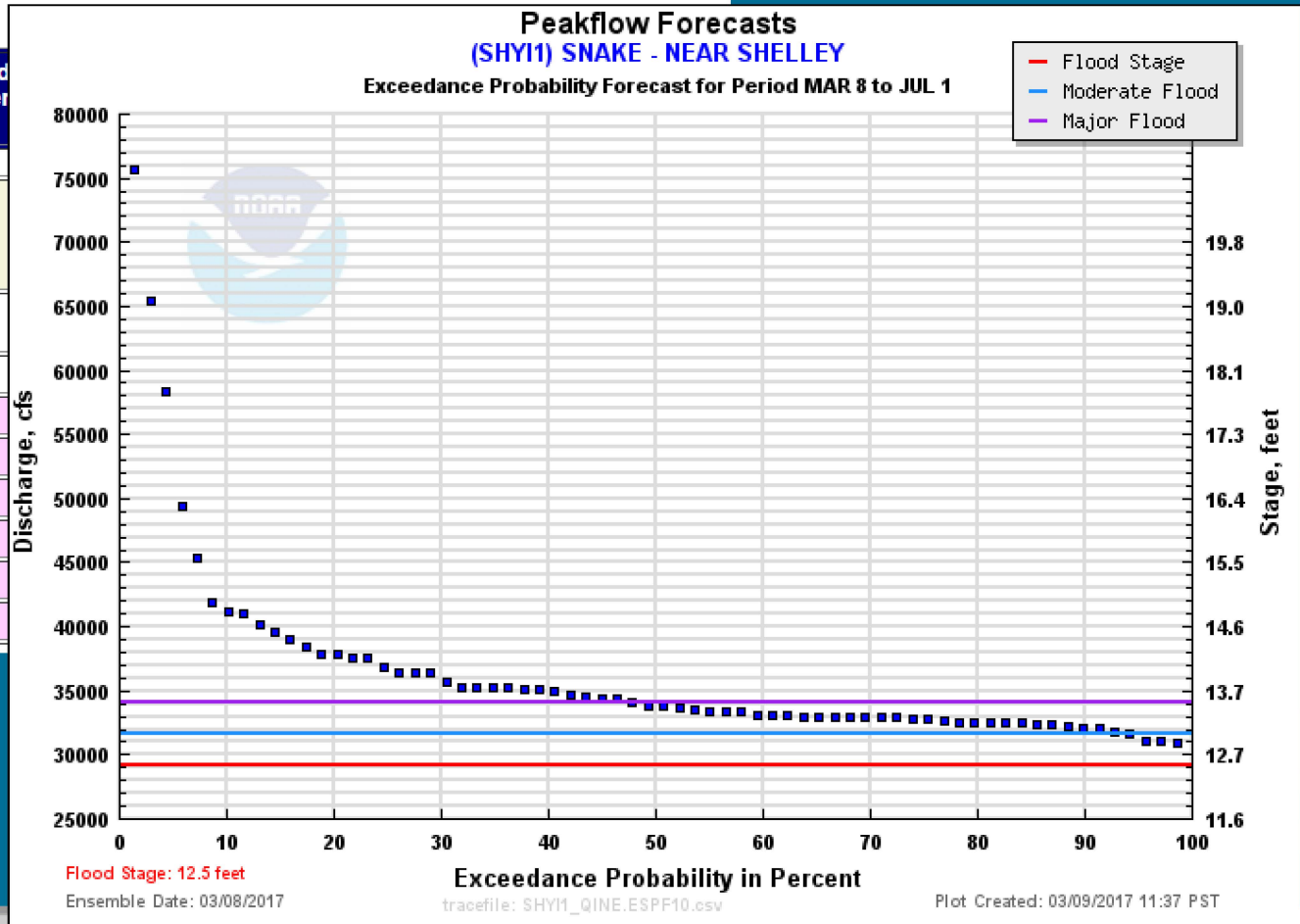
[Close](#) [Summary List](#) [Peakflow Climatology](#) [Peakflow Description](#)

## SNAKE--NEAR SHELLEY

State: Idaho County: BINGHAM  
Latitude: 43 24' 47" North Longitude: 112 8' 6" West  
Elevation: 4599 feet  
Supporting WFO: Pocatello  
Action Stage: 12' Flood Stage: 12.5' Moderate Flood Stage: 13'  
Major Flood Stage: 13.5'

Forecasts are calculated  
time step interval. Obser  
peaks.

|                           |
|---------------------------|
|                           |
| Exceedance<br>Probability |
| 95 %                      |
| 90 %                      |
| 70 %                      |
| 50 %                      |
| 30 %                      |
| 10 %                      |
| 05 %                      |





# Idaho Flood Awareness Week

*March 13<sup>th</sup> through 17<sup>th</sup>*



*Building a Weather-Ready Nation*