

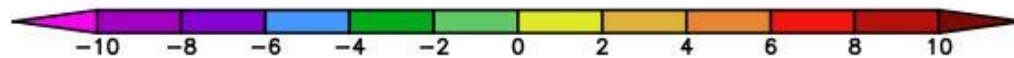
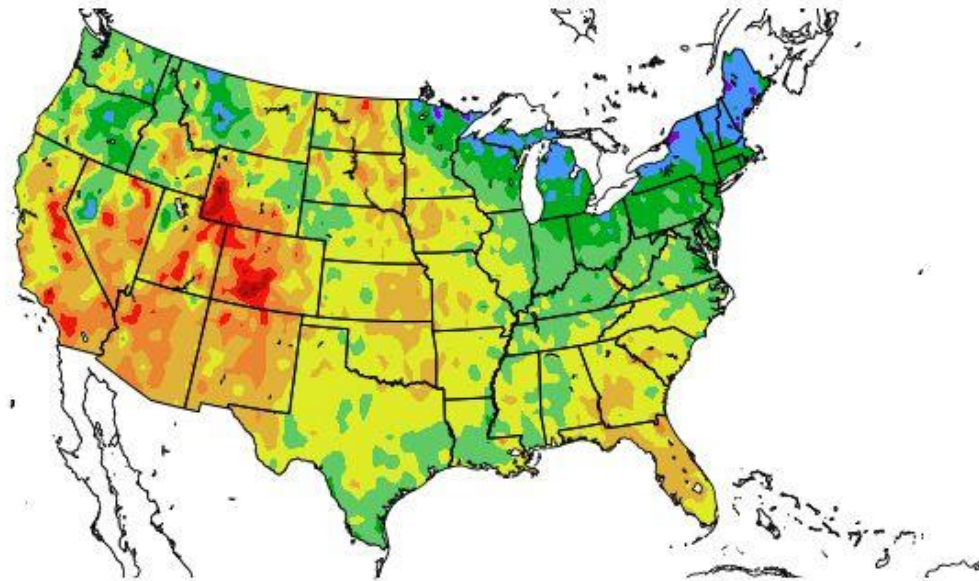
# The Month In Review

**December 2017**

National Weather Service  
Pendleton, Oregon

# Departure from Normal Temperatures

Departure from Normal Temperature (F)  
12/1/2017 – 12/31/2017

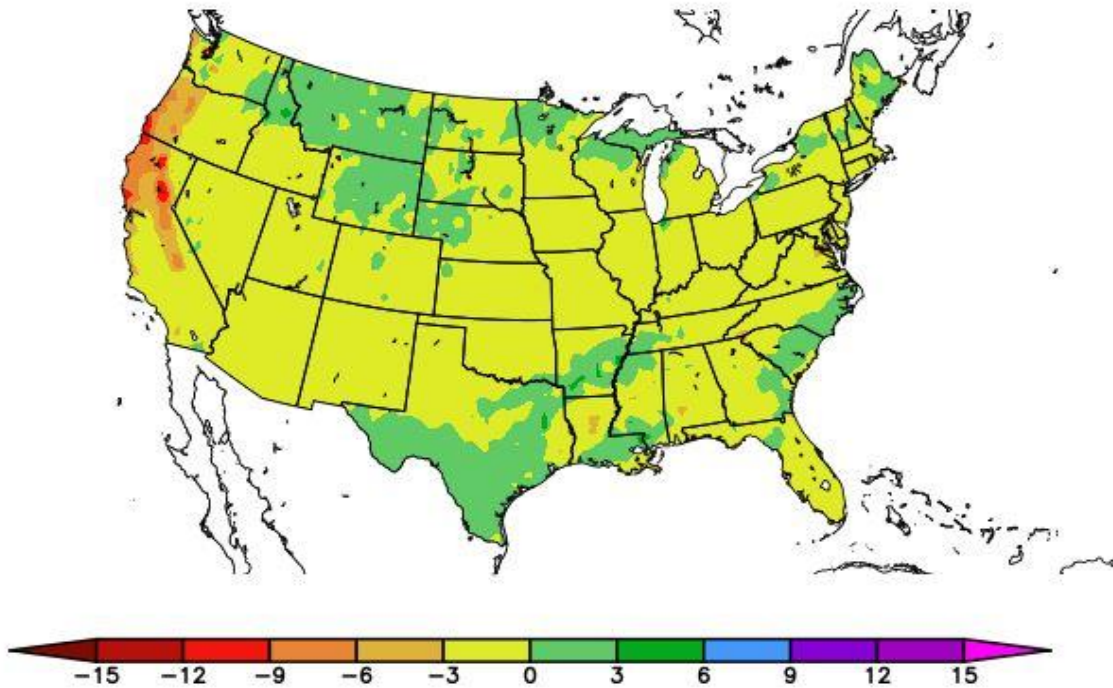


Generated 1/10/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

# Percent of Normal Precipitation (%)

Departure from Normal Precipitation (in)  
12/1/2017 – 12/31/2017



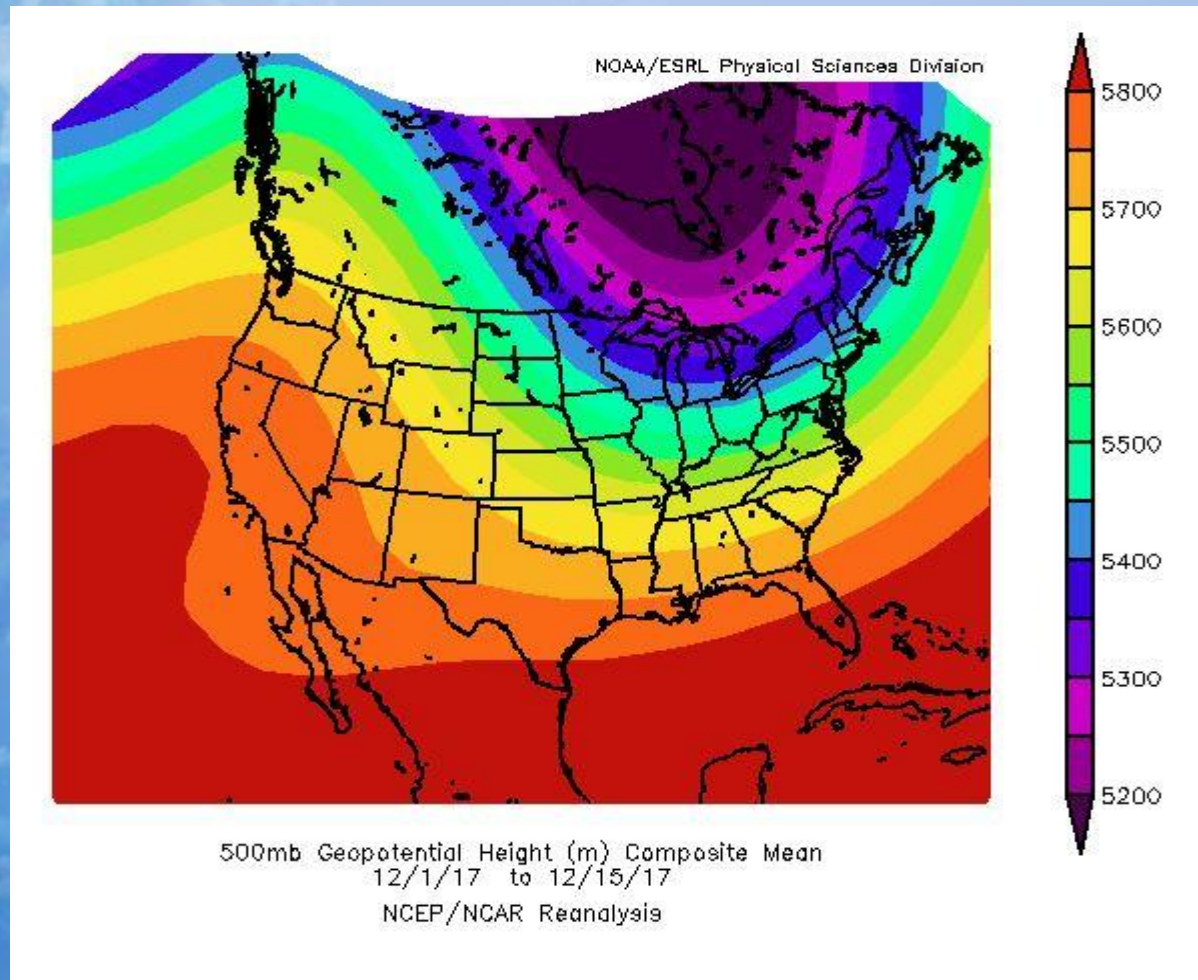
Generated 1/10/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

	Max T	Max T D	Min T	Min T D	Ave T	Ave T D	PCPN	PCPN D
Yakima	38.5	2.7	25.3	4.0	31.9	3.4	0.36	-1.17
Kennewick	37.6	-2.3	28.3	-0.5	33.0	-1.3	0.94	-0.19
Walla Walla	37.1	-1.4	27.8	-0.6	32.5	-0.9	2.79	0.32
The Dalles	40.9	-0.7	30.8	0.4	35.9	-0.6	1.13	-1.56
Redmond	40.1	-0.4	16.4	-4.3	28.3	-2.3	0.12	-1.04
Pendleton Airport	36.6	-2.9	25.2	-1.7	30.9	-2.3	1.22	-0.25
La Grande	36.5	-1.1	20.2	-3.5	28.4	-2.3	1.44	-0.22

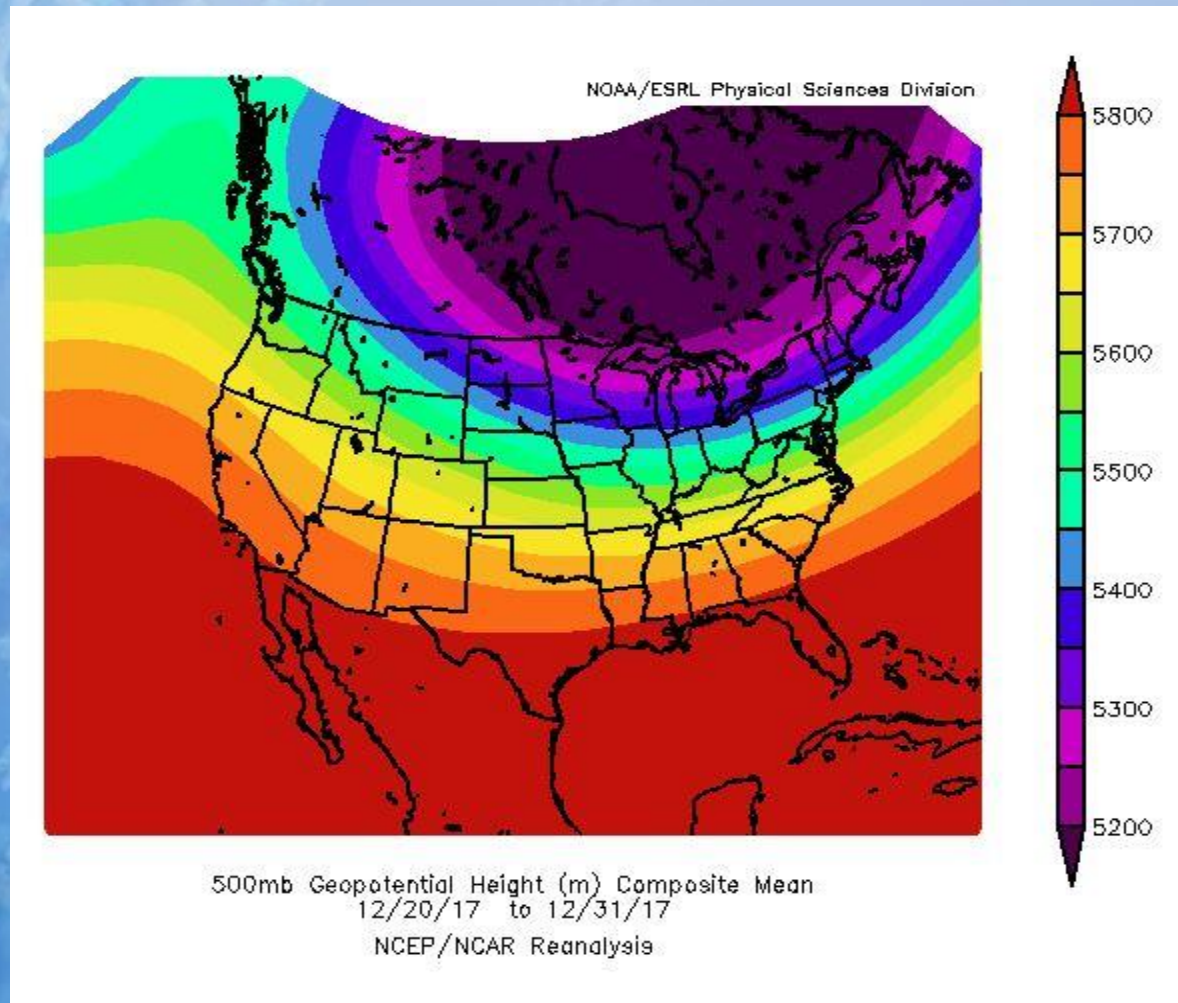
Temperatures during the month of December were not far from normal as a whole. There was a brief arctic intrusion between December 23-25, which also brought two snow storms that gave the forecast area a white Christmas. It was only the third white Christmas since 1996. Otherwise from the table above you can see that departures from normal were mainly 4 degrees or less either way.

# December 2017 Average Weather Pattern



The first half of December was marked by a long wave and persistent upper ridge that settled over the region. This resulted in a lengthy period of low clouds and fog with valley inversions in the lower elevations.

# December 2017 Average Weather Pattern



The second half of December was more influenced by the polar jet stream which was closer and therefore had more of an impact on the region. This resulted in a series of winter storms around Christmas time.

ZCZC PDXLSRPDT  
 NWUS56 KPDT 252359  
 PRELIMINARY LOCAL STORM  
 REPORT...SUMMARY  
 NATIONAL WEATHER SERVICE PENDLETON  
 OR  
 357 PM PST MON DEC 25  
 2017

..TIME... ..EVENT... ..CITY LOCATION...  
 ..LAT.LON...  
 ..DATE... ..MAG.... ..COUNTY LOCATION..ST.. ..SOURCE....

..REMARKS..

0350 AM	SNOW	TIETON	46.70N 120.75W
12/25/2017	E1.0 INCH	YAKIMA	WA PUBLIC
0350 AM	SNOW	HERMISTON	45.83N 119.28W
12/25/2017	E3.0 INCH	UMATILLA	OR PUBLIC
0350 AM	SNOW	MILTON-FREEWATER	45.93N 118.39W 12/25/2017 E2.0 INCH
		UMATILLA	OR PUBLIC
0357 AM	HEAVY SNOW	1 NNW PENDLETON	45.69N 118.82W
12/25/2017	M4.1 INCH	UMATILLA	OR OFFICIAL NWS OBS

SINCE SUNDAY  
 AFTERNOON.

# Heavy Snow on Christmas Day early in the Morning and on Christmas Eve



# Heavy Snow on Christmas Day early in the Morning and on Christmas Eve

0530 AM SNOW 7 E MOSIER 45.68N  
121.25W

12/25/2017 E3.0 INCH KLUICKITAT WA PUBLIC

STILL SNOWING.

0530 AM HEAVY SNOW PENDLETON 45.67N 118.82W

12/25/2017 M4.5 INCH UMATILLA OR NWS EMPLOYEE

ON THE SOUTH  
HILL.

0630 AM HEAVY SNOW E PENDLETON 45.67N 118.82W

12/25/2017 M5.0 INCH UMATILLA OR NWS EMPLOYEE

0700 AM SNOW RICHLAND 46.29N  
119.29W

12/25/2017 M2.5 INCH BENTON WA COCORAHS

24 HOUR ACCUMULATION

0700 AM SNOW 12 SSW CANYON CITY 44.23N 119.04W

12/25/2017 M2.4 INCH GRANT OR  
COCORAHS

24 HOUR ACCUMULATION





# Heavy Snow on Christmas Day early in the Morning and on Christmas Eve

0700 AM SNOW YAKIMA 46.59N  
120.53W  
12/25/2017 M2.1 INCH YAKIMA WA  
COCORAHS

24 HOUR ACCUMULATION

0720 AM SNOW 9 N ELGIN 45.69N  
117.92W  
12/25/2017 M4.4 INCH UNION OR  
COCORAHS

24 HOUR ACCUMULATION

0730 AM SNOW SUNNYSIDE 46.32N  
120.01W  
12/25/2017 E2.0 INCH YAKIMA WA PUBLIC

REPORT FROM FACEBOOK

0730 AM HEAVY SNOW UMATILLA 45.91N 119.33W  
12/25/2017 E5.0 INCH UMATILLA OR PUBLIC

REPORT VIA FACEBOOK. NEW SNOW ACCUMULATION THROUGH  
MONDAY  
MORNING.

0744 AM SNOW 2 NNE CONDON 45.26N  
120.17W  
12/25/2017 M2.2 INCH GILLIAM OR  
COCORAHS

24 HOUR ACCUMULATION



# Monthly Total Precipitation and Snowfall

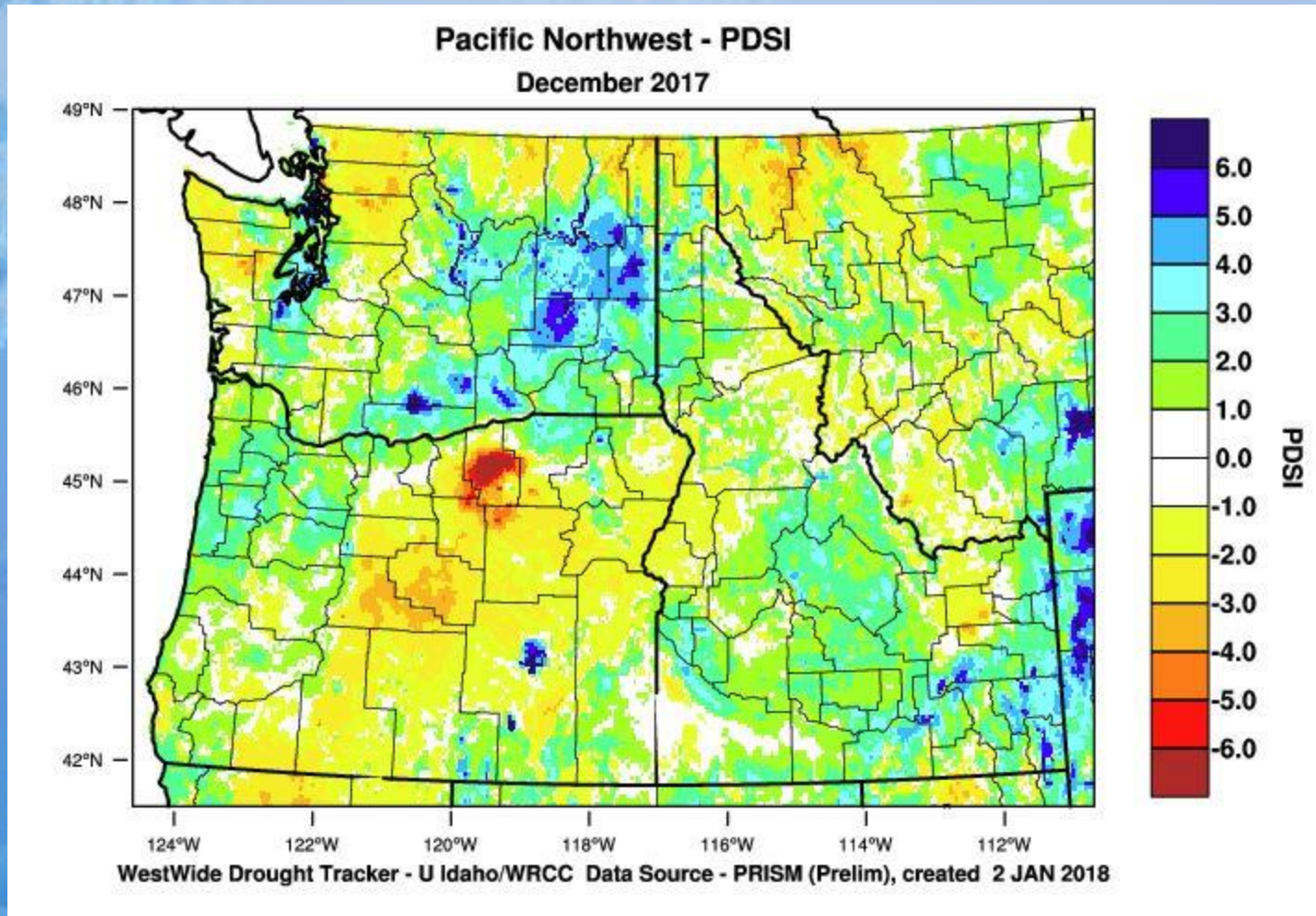
Location	Total Monthly Precip	Total Snowfall
Easton	4.43"	17.0"
Ellensburg	0.22"	M
Yakima	1.14"	1.2"
Pasco	0.88"	4.0"
The Dalles	1.13"	M
Walla Walla	2.79"	10.1
Hermiston	0.79"	M
Pendleton	1.22"	10.0"
Redmond	0.12"	0.2"
Meacham	4.91"	34.0"
John Day	0.40"	7.2"
Mt Adams RS	2.36"	M

# Monthly Max & Min Temperatures

Location	Highest Maximum Temperature	Lowest Minimum Temperature
Pendleton, OR	62	1
Redmond, OR	62	4
Pasco, WA	56	11
Yakima, WA	54	12
Walla Walla, WA	59	8
Bend, OR	57	6
Ellensburg, WA	49	6
Hermiston, OR	56	5
John Day, OR	53	2
La Grande, OR	46	-7
Prineville, OR	63	11
The Dalles, OR	55	19

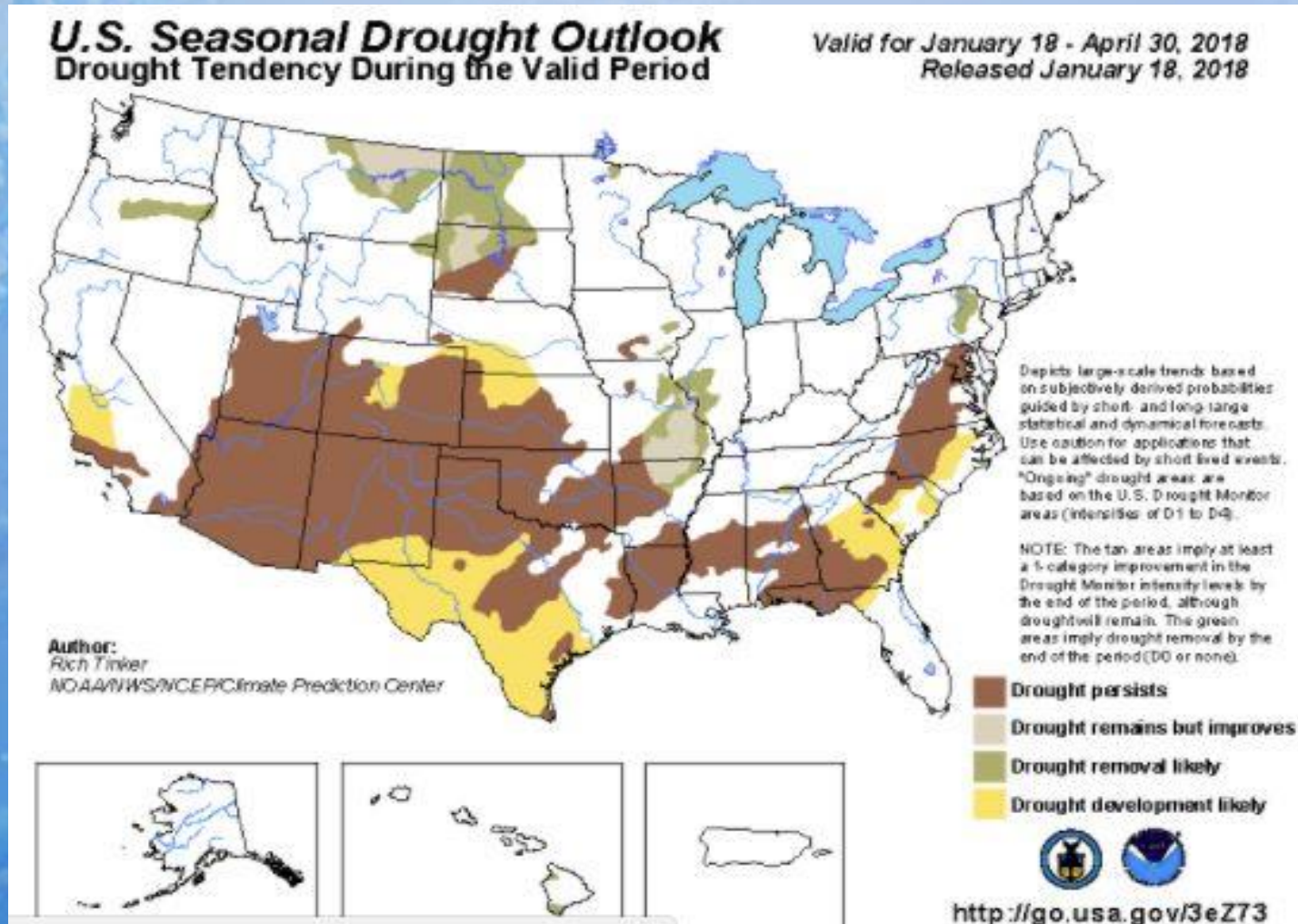
There were some temperatures extremes, but they were not that unusual for December.

# December 2017 Drought Index



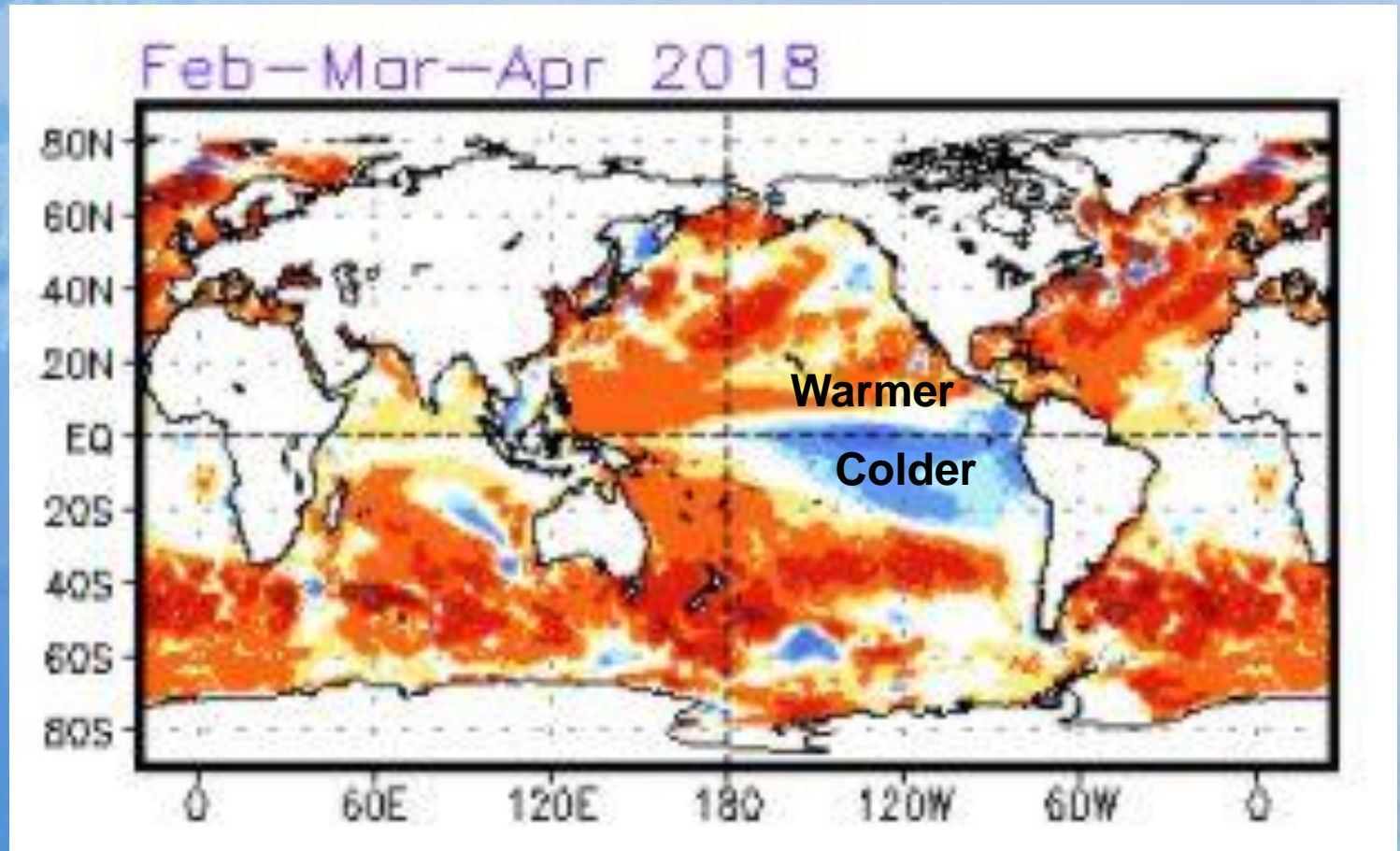
December had drought conditions mainly in the Oregon side of the forecast area (more areas in yellow and red), while in Washington, it was a little wetter than normal (more areas of blue and green). This comparison is only for northeast Oregon and Southeast Washington (i.e. the forecast area).

# USA Seasonal Drought Outlook – January – April 2018



For the period of mid January through the end of April the Pacific Northwest The drought monitor indicates an improvement and removal Of drought conditions over the Northeast Oregon Mountains while the Rest of the area is expected to remain the same.

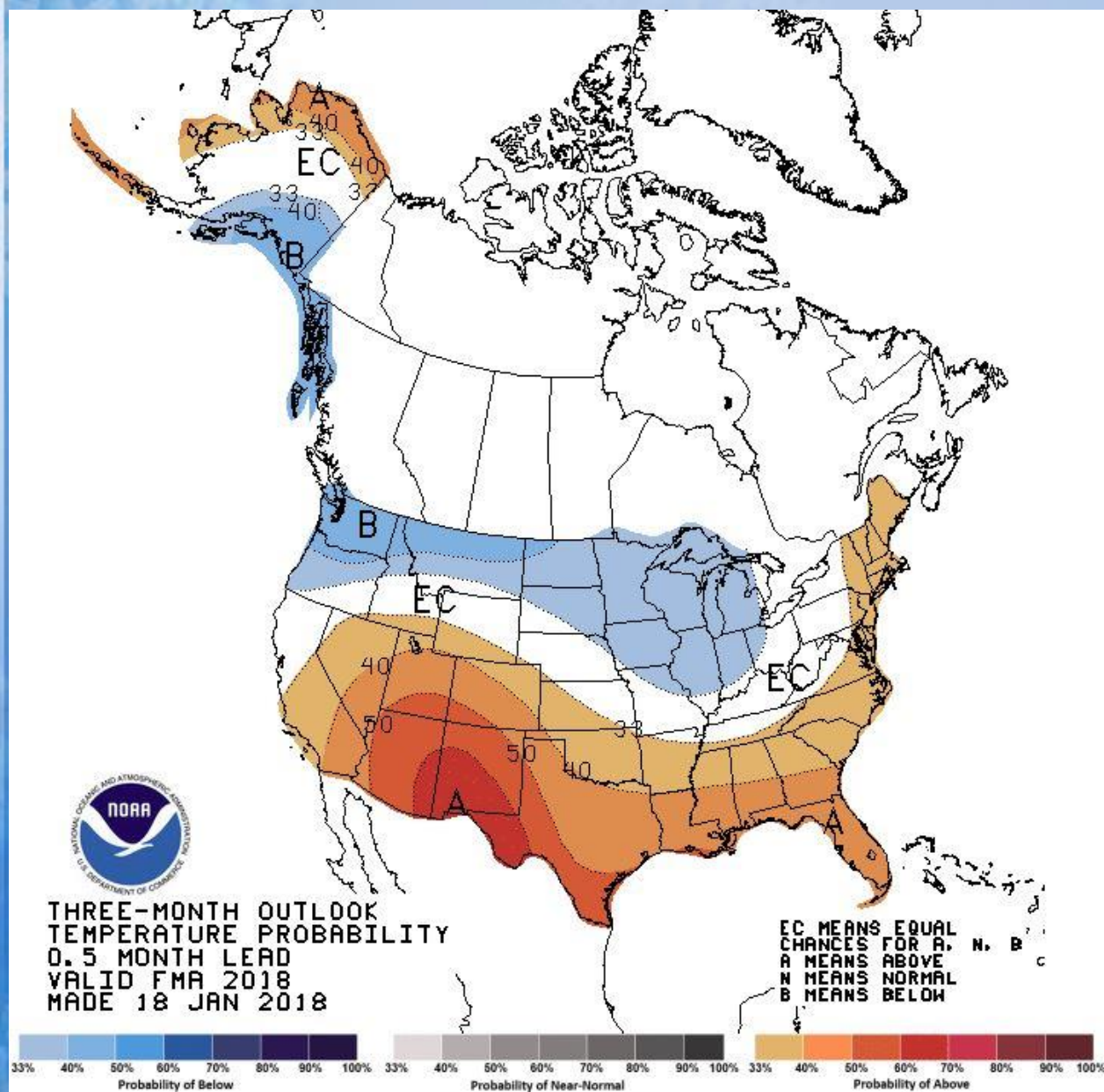
### 3 Month El Nino/La Nina Outlook, Feb – Mar – Apr 2018



For the period February – April El Nino/La Nina Outlook, expect colder than normal SSTs over the tropical Pacific south of the equator, and above normal SSTs over the tropical Pacific north of the equator along the N. America west coast. Thus an El Nino for the SW USA and a La Nina for the northwest coast of S. America through April 2018 is expected.

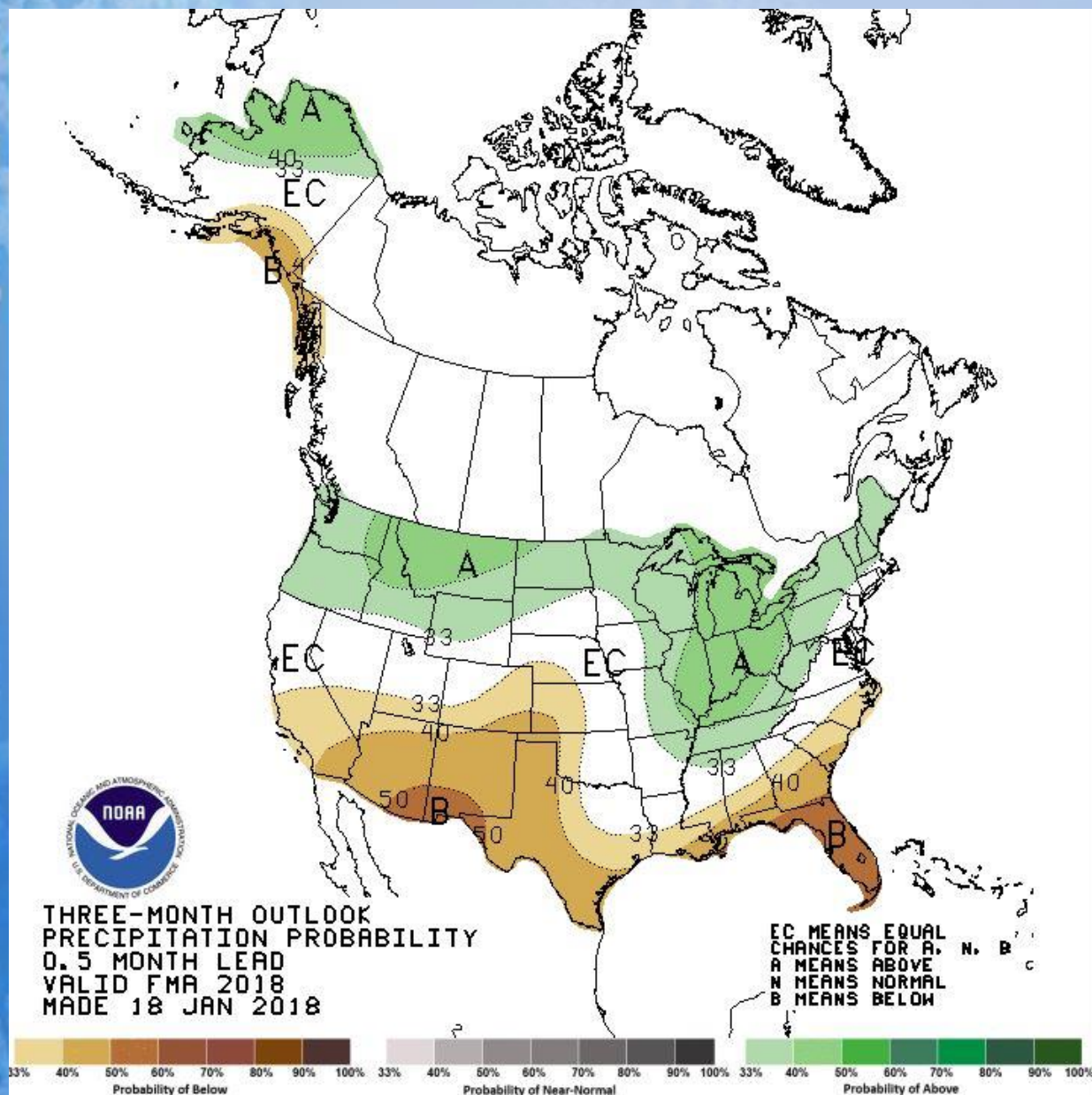
# February, March, April, 2018 - 3 Month Temperature Outlook

For the period February through April we can expect below normal temperatures over the Pacific Northwest.



# February, March, April, 2018 - 3 Month Precipitation Outlook

Through the month of February through April we can expect above normal precipitation over the Pacific Northwest.







**Thank You!**