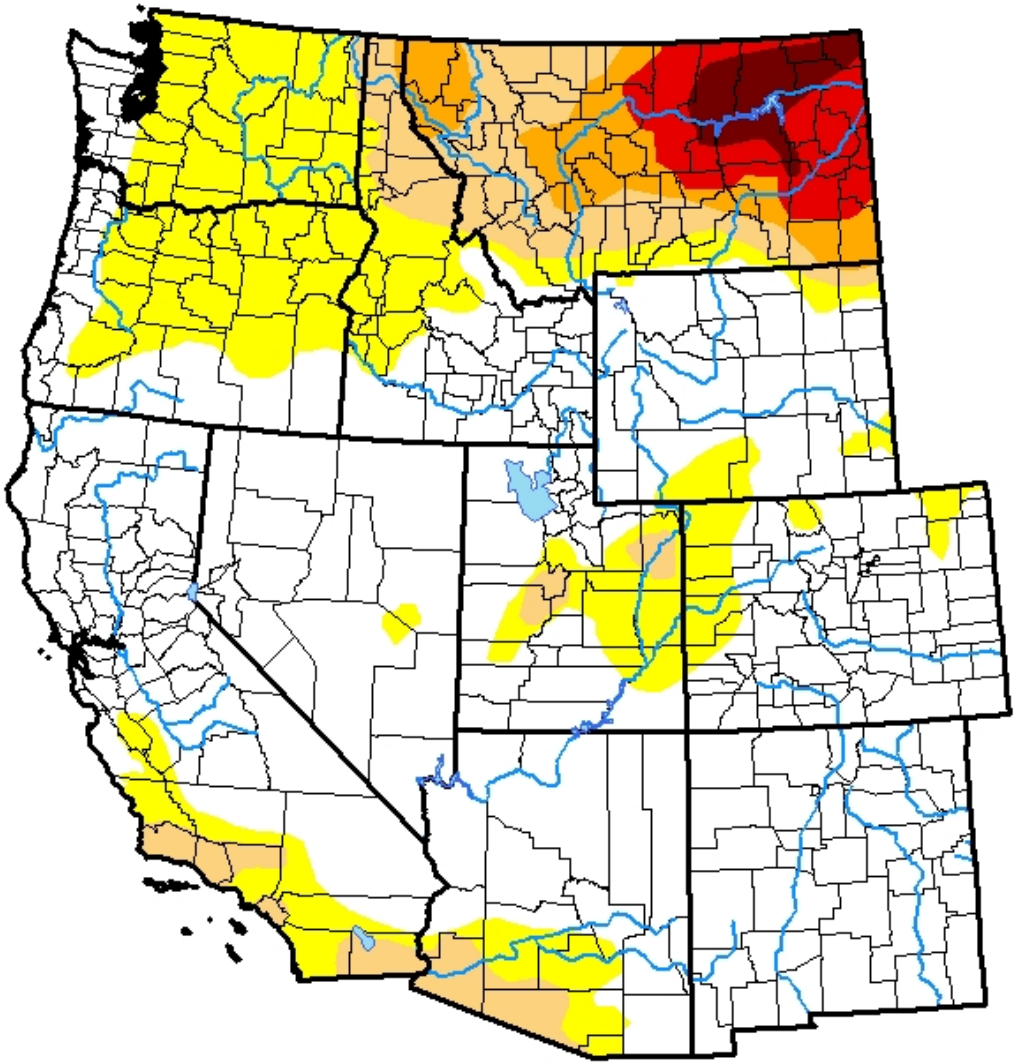
Willamette Valley – 21 August 2017

Paul Carter for the *Register-Guard*

MODIS Image for NW Washington State – 2 August 2017

U.S. Drought Monitor
West



August 22, 2017

(Released Thursday, Aug. 24, 2017)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	64.77	35.23	15.27	7.47	4.26	1.47
Last Week *08-15-2017*	64.18	35.82	11.68	5.86	3.11	1.47
3 Months Ago *05-23-2017*	86.38	13.62	4.46	0.16	0.00	0.00
Start of Calendar Year *01-03-2017*	54.19	45.81	21.51	8.53	5.11	2.44
Start of Water Year *09-27-2016*	27.78	72.22	30.95	13.45	5.77	2.81
One Year Ago *08-23-2016*	23.76	76.24	33.92	12.95	5.99	2.81

Intensity:

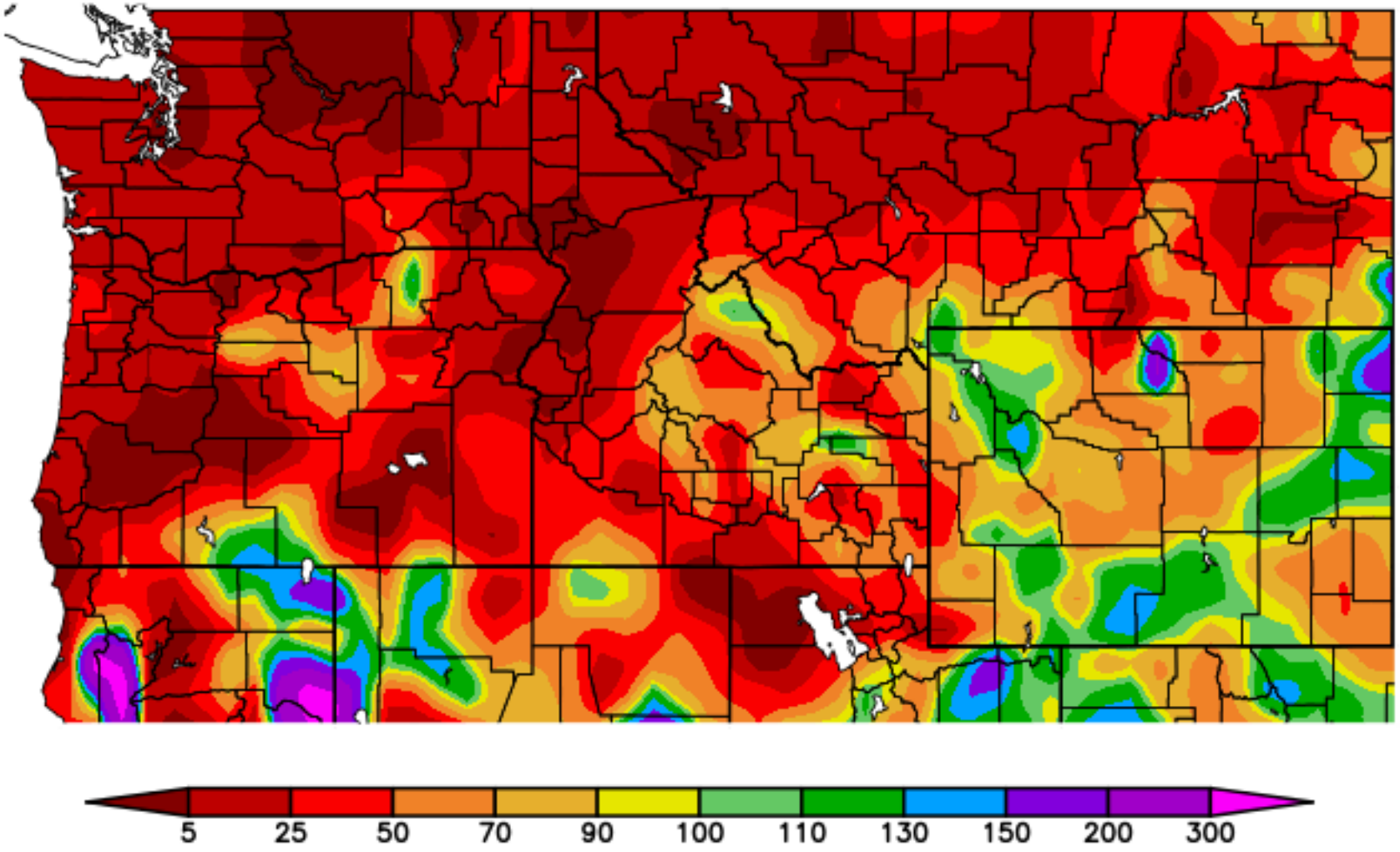
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
Chris Fenimore
NCEI/NESDIS/NOAA

http://droughtmonitor.unl.edu/

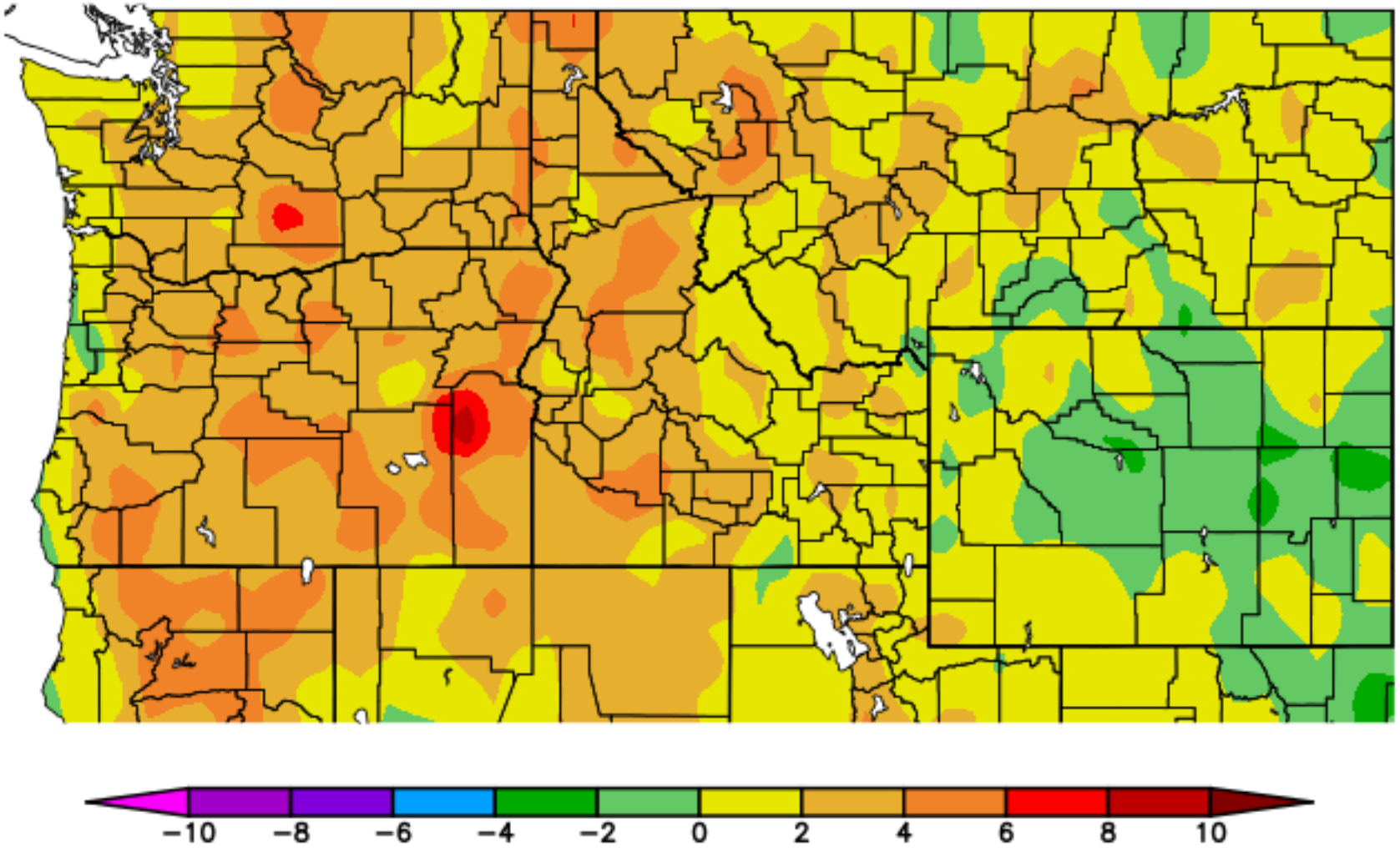
Percent of Normal Precipitation (%)
6/24/2017 – 8/22/2017



Generated 8/23/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Temperature (F)
6/24/2017 – 8/22/2017



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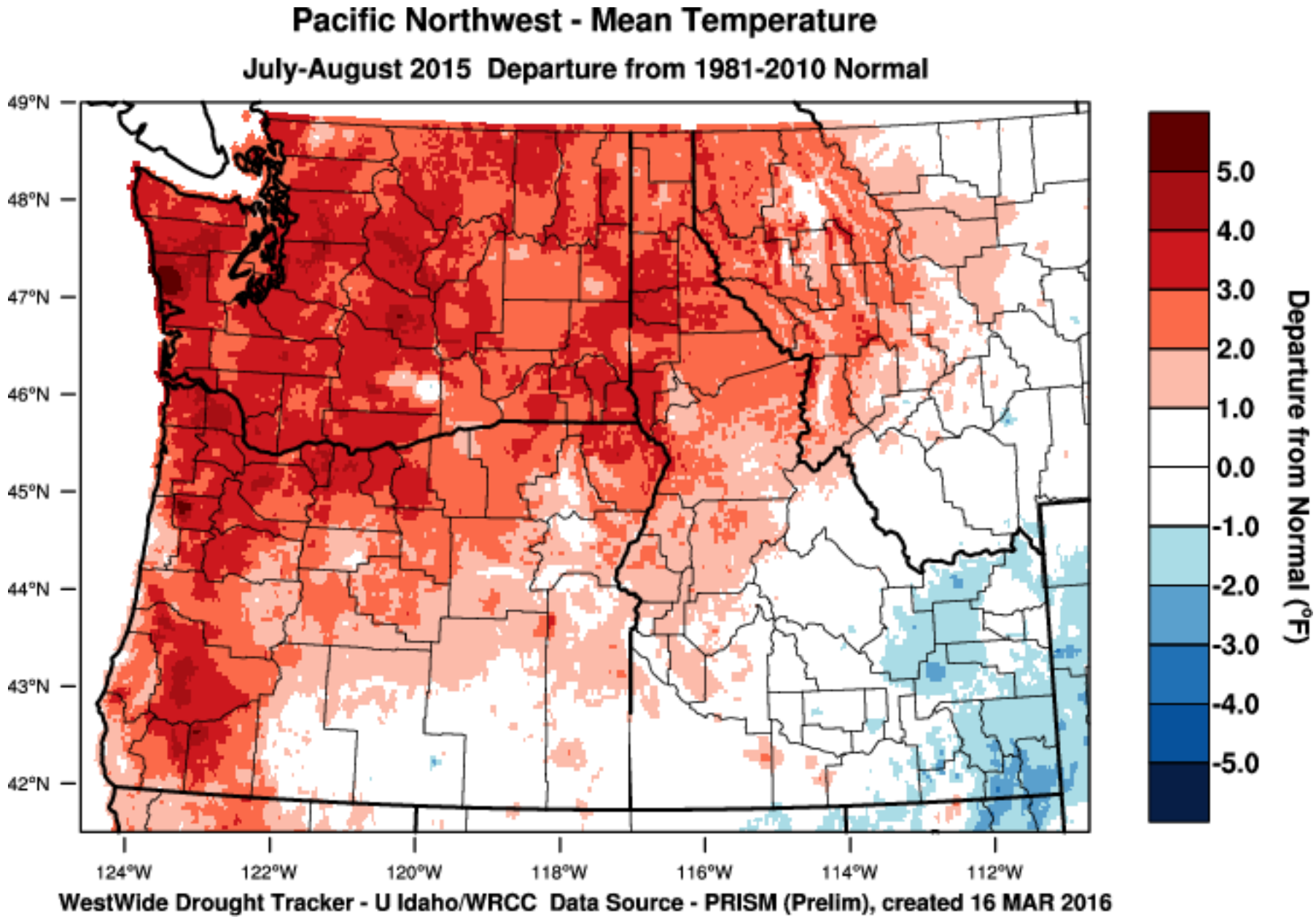
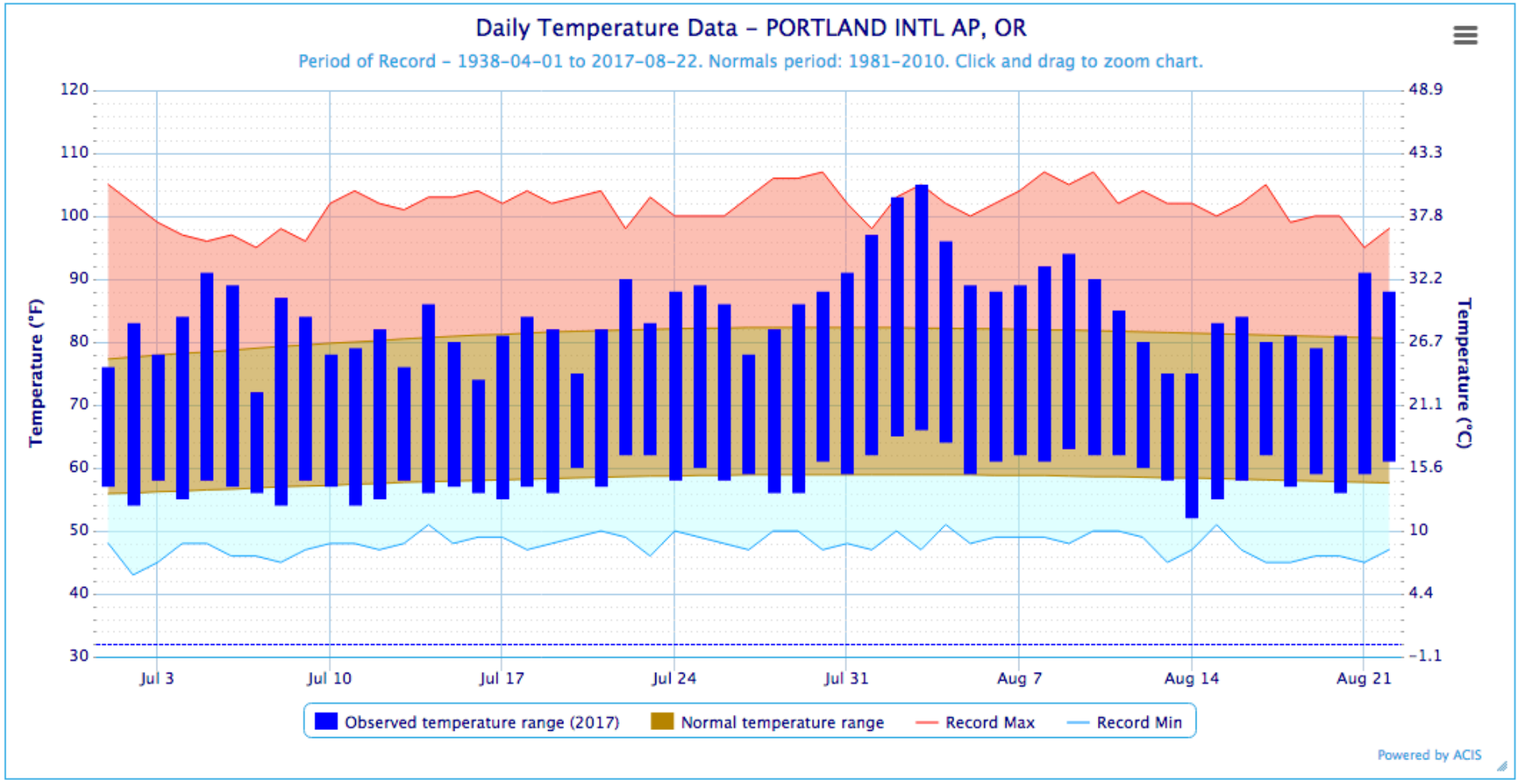
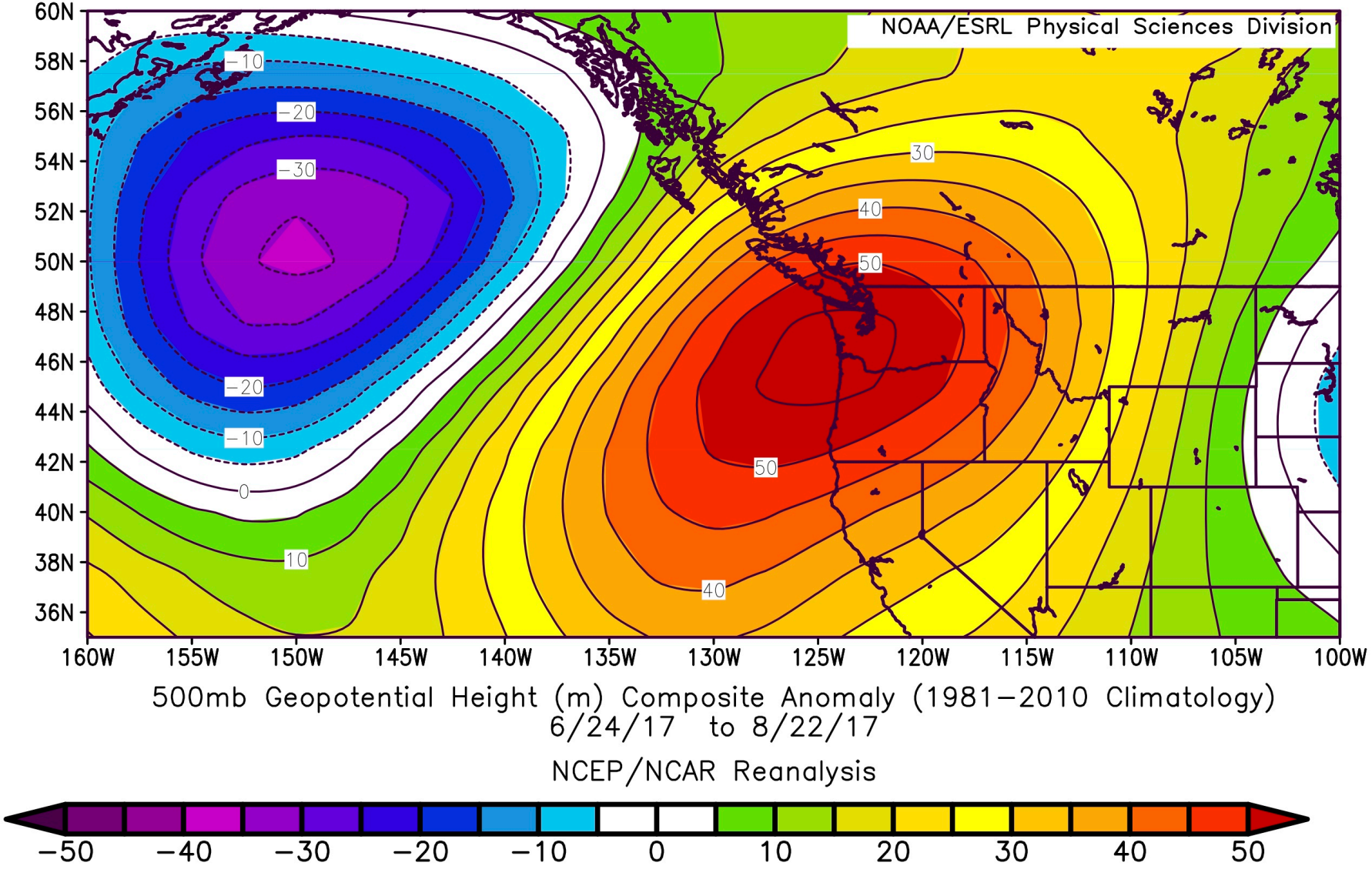
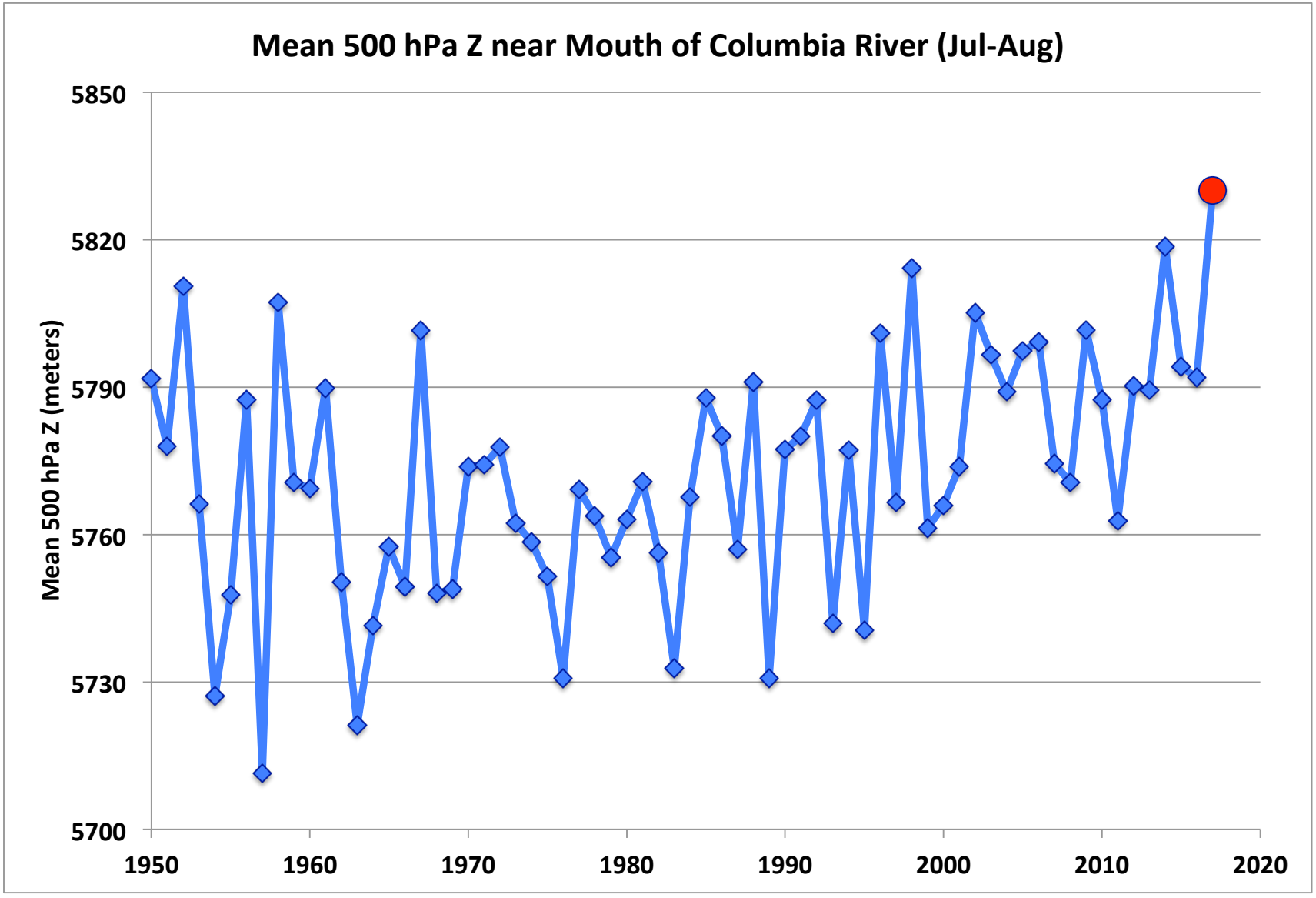
NOAA Regional Climate Centers


Pacific Northwest - Mean Temperature
July-August 2015 Departure from 1981-2010 Normal
49°N
48°N
47°N
46°N
45°N
44°N
43°N
42°N
124°W
122°W
120°W
118°W
116°W
114°W
112°W
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-5.0
Departure from Normal (°F)
WestWide Drought Tracker - U Idaho/WRCC Data Source - PRISM (Prelim), created 16 MAR 2016

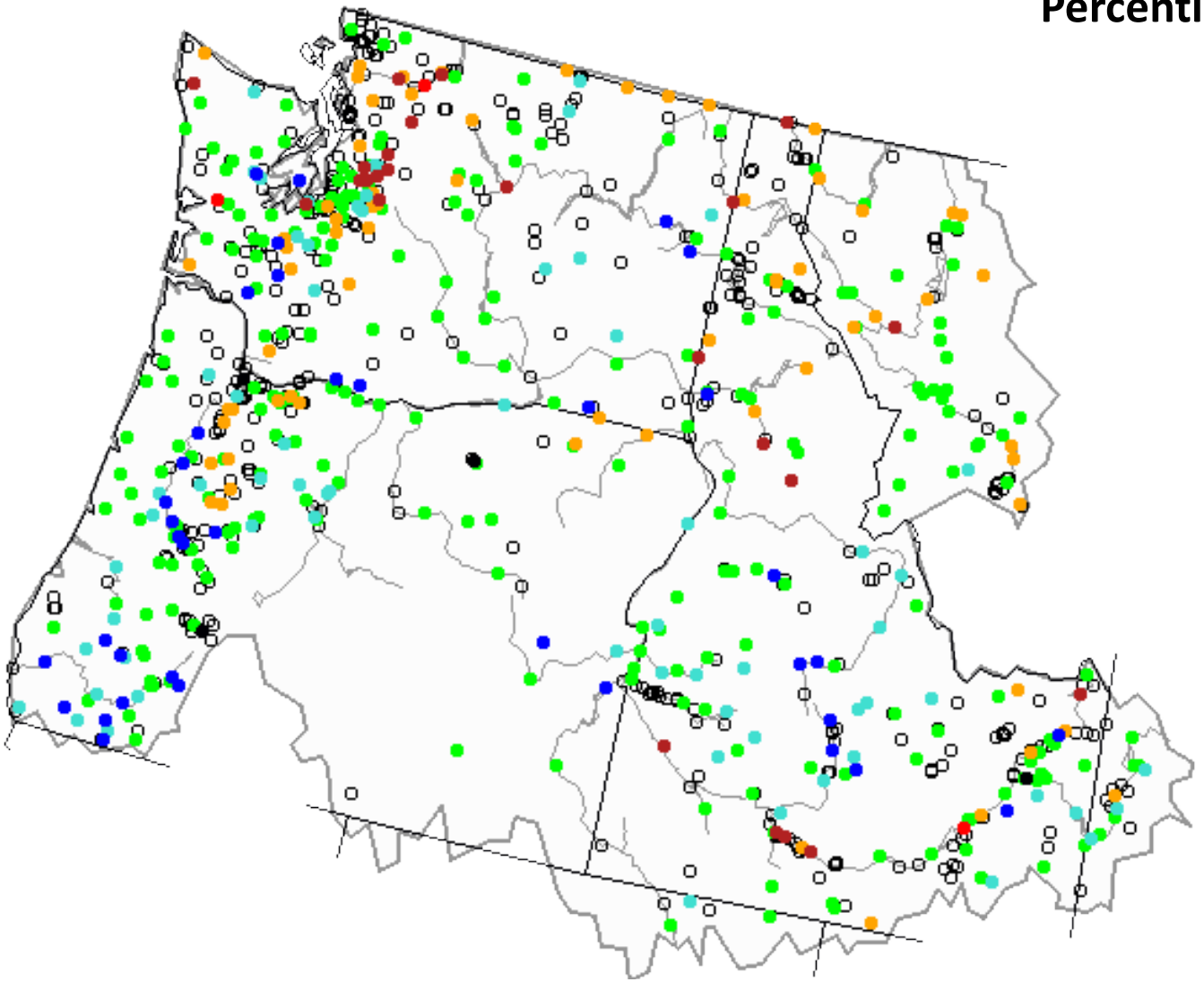

Daily Temperature Data - PORTLAND INTL AP, OR
Period of Record - 1938-04-01 to 2017-08-22. Normals period: 1981-2010. Click and drag to zoom chart.
Temperature (°F)
Temperature (°C)
120
110
100
90
80
70
60
50
40
30
48.9
43.3
37.8
32.2
26.7
21.1
15.6
10
4.4
-1.1
Jul 3
Jul 10
Jul 17
Jul 24
Jul 31
Aug 7
Aug 14
Aug 21
Observed temperature range (2017)
Normal temperature range
Record Max
Record Min
Powered by ACIS


NOAA/ESRL Physical Sciences Division
60N
58N
56N
54N
52N
50N
48N
46N
44N
42N
40N
38N
36N
160W
155W
150W
145W
140W
135W
130W
125W
120W
115W
110W
105W
100W
−10
−20
−30
−20
−10
0
10
30
40
50
50
40
500mb Geopotential Height (m) Composite Anomaly (1981−2010 Climatology)
6/24/17 to 8/22/17
NCEP/NCAR Reanalysis
−50
−40
−30
−20
−10
0
10
20
30
40
50


Mean 500 hPa Z near Mouth of Columbia River (Jul-Aug)
Mean 500 hPa Z (meters)
5850
5820
5790
5760
5730
5700
1950
1960
1970
1980
1990
2000
2010
2020

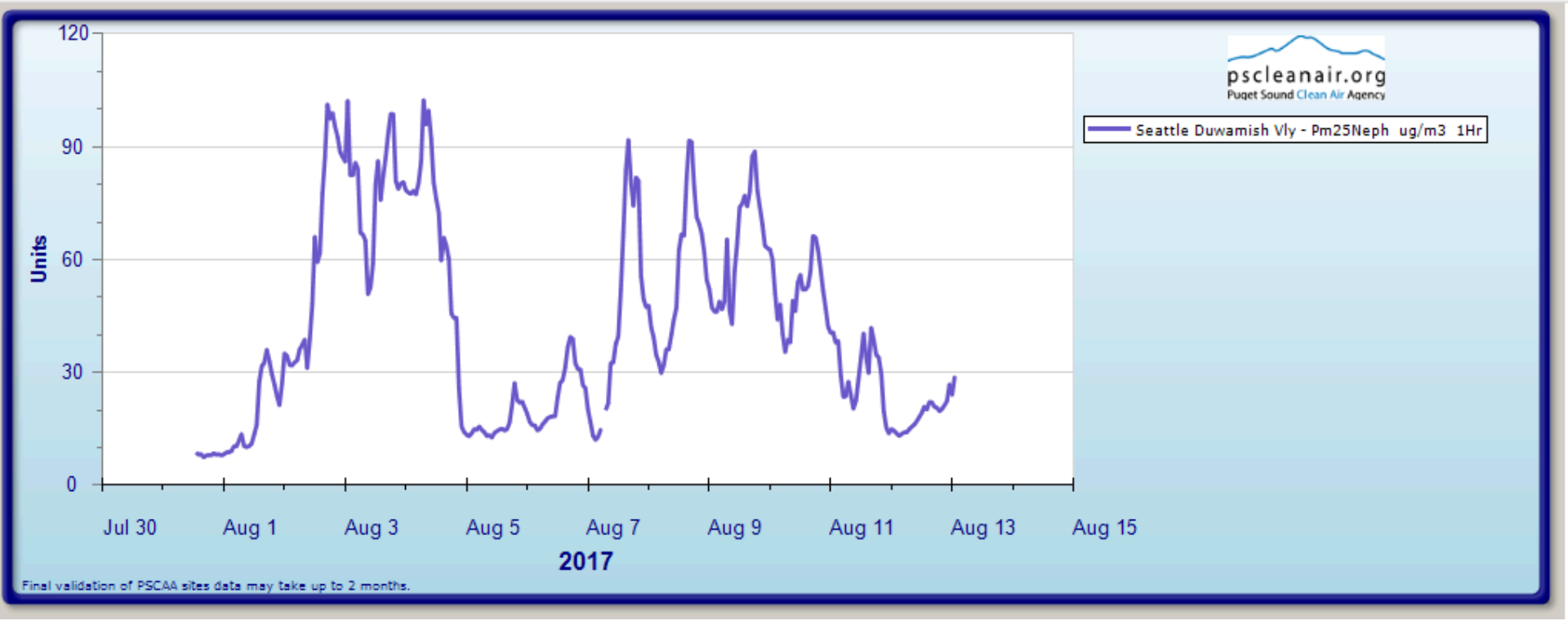
Wednesday, August 23, 2017 19:30ET

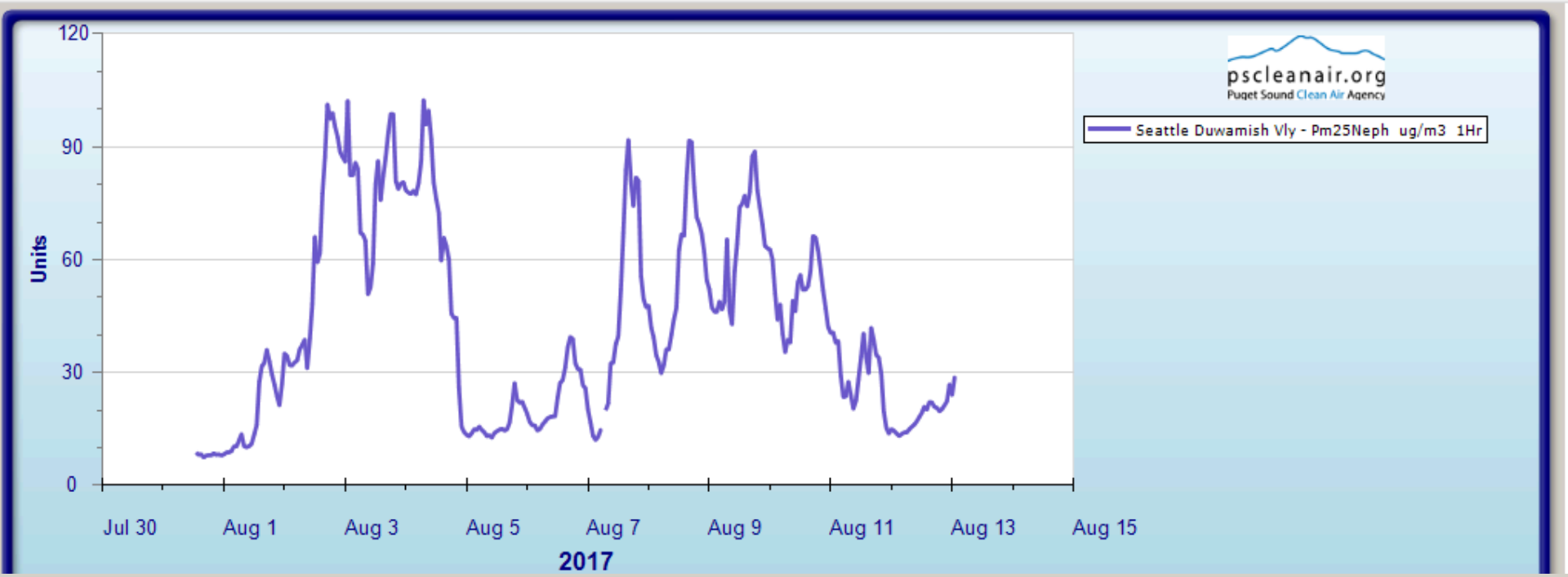
Percentile Streamflows

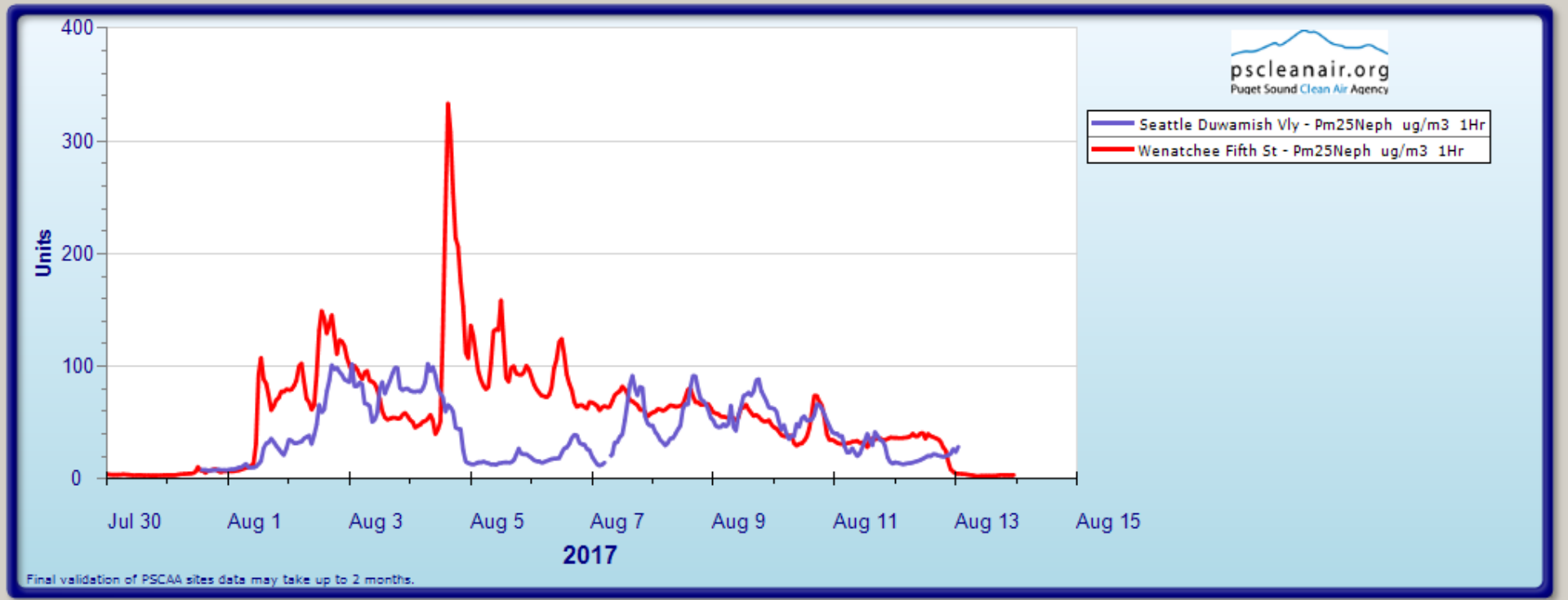


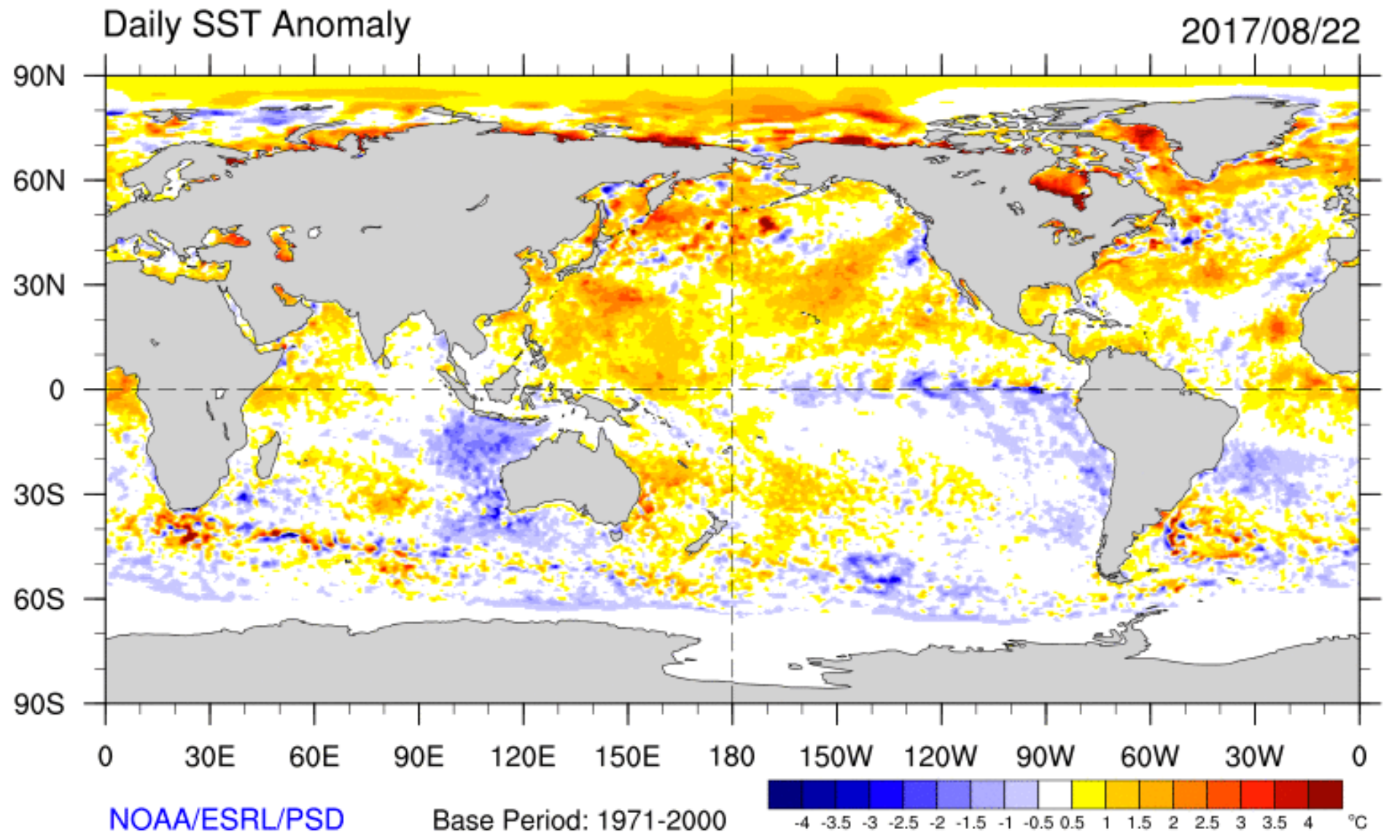
USGS

Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

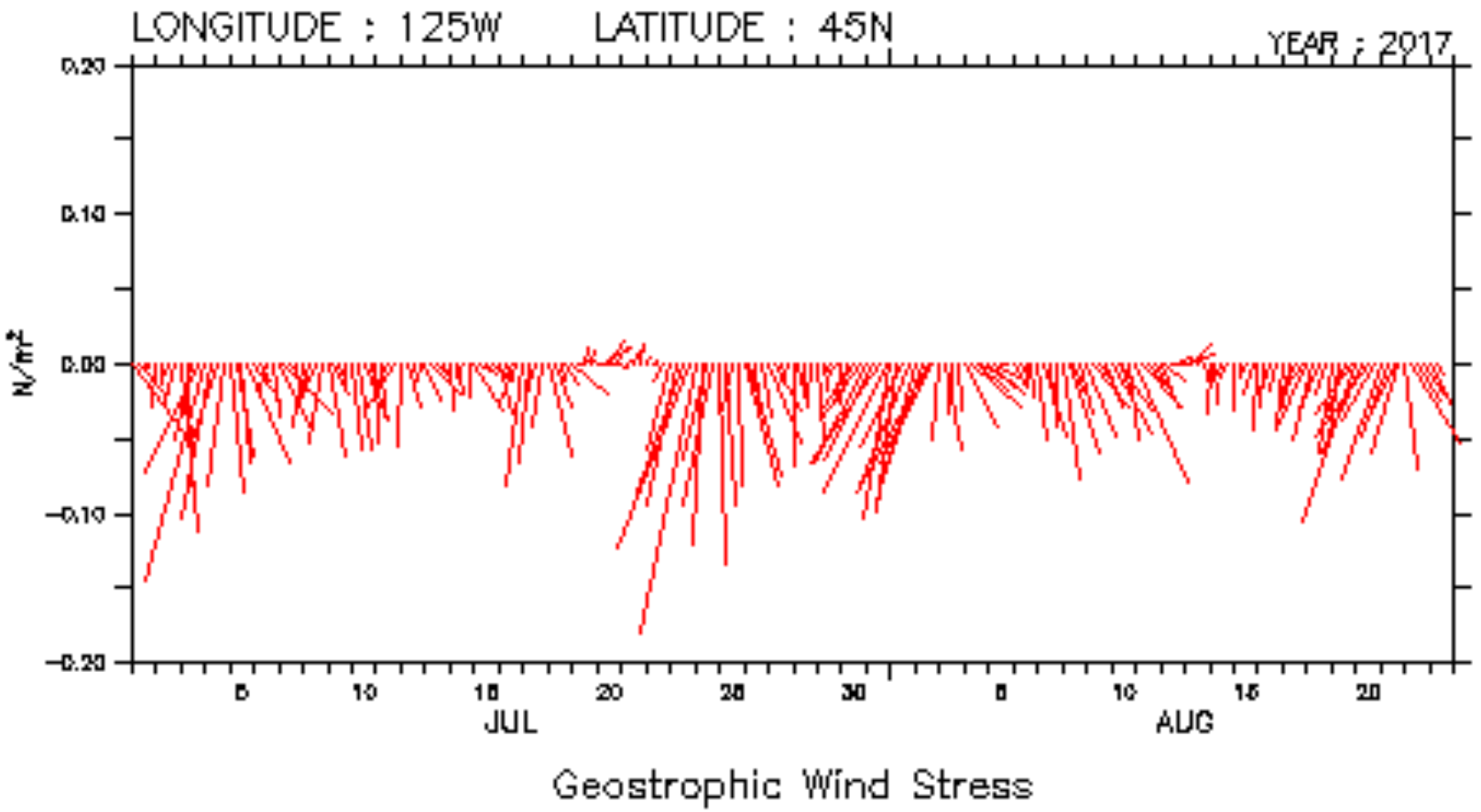

120
90
60
30
0
Units
Jul 30
Aug 1
Aug 3
Aug 5
Aug 7
Aug 9
Aug 11
Aug 13
Aug 15
2017
pscleanair.org
Puget Sound Clean Air Agency
Seattle Duwamish Vly - Pm25Neph ug/m3 1Hr
Final validation of PSCAA sites data may take up to 2 months.


pscleanair.org
Puget Sound Clean Air Agency
Seattle Duwamish Vly - Pm25Neph ug/m3 1Hr
Units
120
90
60
30
0
Jul 30
Aug 1
Aug 3
Aug 5
Aug 7
Aug 9
Aug 11
Aug 13
Aug 15
2017


pscleanair.org
Puget Sound Clean Air Agency
Seattle Duwamish Vly - Pm25Neph ug/m3 1Hr
Wenatchee Fifth St - Pm25Neph ug/m3 1Hr
Units
400
300
200
100
0
Jul 30
Aug 1
Aug 3
Aug 5
Aug 7
Aug 9
Aug 11
Aug 13
Aug 15
2017
Final validation of PSCAA sites data may take up to 2 months.


Daily SST Anomaly
2017/08/22
90N
60N
30N
0
30S
60S
90S
0
30E
60E
90E
120E
150E
180
150W
120W
90W
60W
30W
0
NOAA/ESRL/PSD
Base Period: 1971-2000
-4 -3.5 -3 -2.5 -2 -1.5 -1 -0.5 0.5 1 1.5 2 2.5 3 3.5 4
°C

Newport, OR



from NOAA's Pacific Fisheries Environmental Laboratory