

1) Create a Climate Division Time Series

- Go to the ESRL PSD Interactive Plotting and Analysis Pages <http://www.esrl.noaa.gov/psd/cgi-bin/data/getpage.pl>
- Find the "Obtain Monthly/Seasonal Time-series" Link, then

Click here to go to the time series page

Plot Accumulated US Precipitation
Point and Click Access to accumulated precipitation year-to-date totals over the United States

Obtain Monthly/Seasonal Time-series
Obtain Monthly or seasonal time-series from a subset of PSD's datasets

US Climate Division Correlations
Obtain maps of correlations with monthly mean or seasonal US Climate Division Data. Use provided atmosphere/ocean time-series like PNA or Niña 3.4

- Or, go to the time series page directly at: <http://www.esrl.noaa.gov/psd/data/timeseries/>

Select a data set

Timeseries Extraction Information
In order to help ensure that this web analysis page remains available, we would greatly appreciate feedback on its use, particularly in the classroom, for presentations or for research. Mail to: psd.post.data@noaa.gov.

Help and Background
Instructions

Related Time Series Analysis Pages
Extract Daily Timeseries
Plot monthly composites weighted climate data
Plot monthly composites US climate division

Create a monthly or seasonal time series of climate variables.
You can use the created timeseries in other pages for analysis (see left under related time series plots)

Which Dataset?
Dataset Name
 NCEP/NCAR Reanalysis monthly means
 20th Century Reanalysis V2 monthly means
 NCEP/DOE AMP-II Reanalysis monthly means
 Interpolated CLR
 US Climate Division: temperature, precipitation and Palmer Drought Severity Index (PDSI)
 Kaplan SST
 U of Delaware Precipitation

Time Range Information
 1948-Dec 2010 INFO
 1871-2006 INFO
 1979-2007 INFO
 1974-Feb 29 2008 INFO
 1895-Dec 2010 INFO
 1856-Jan 2006 INFO
 1856-2006 INFO

Go to Selection Options

2. Click here

Plot the January averages for Oregon Division 2

Things to check or change: []

Timeseries Extraction Page
Create a monthly/seasonal mean time series from the US Climate Division Dataset

Related information:
List of available datasets
Map of climate divisions
Data are from NCDC. Please see their dataset documentation link from their plotting page for dataset and attribution information.
These data can be plotted from the Western Regional Climate Center Webpages.
Choose:
Plots of data from one month over a period of years at one climate division.
Plots of data for all months of the year over a period of years for one climate division.

Climate Division
Maps:
<http://www.esrl.noaa.gov/psd/data/usclimate/map.html>

Create a timeseries of monthly/seasonal mean values (Directions). Output is organized by year for the rows and by month (January to December) across columns for monthly values. For seasonal output, just a single seasonal average (or seasonal total for precipitation) is listed for each year. Simply save the browser page containing the monthly timeseries output in order to use it in correlations or composites with NCEP Reanalysis monthly means or with US Climate Division data, correlations or composites. **There is no climate division data available for Alaska or Hawaii.**

Temperature Precipitation Palmer Drought Data 1) select precipitation

[State: Oregon] [Division: 2] 2&3) select state and division

Year range (1895-present available) [1948] to [2010] 4) set to 1948 to 2010

For seasons that span a year end, the year is the last month of the season

Mean Anomaly (1971-2000 climatology) Climatology Ranked values Ranked: Sorted values

Monthly Seasonal average 6) seasonal average gives one value per year
First month of season: Jan • second month: Jan • 7) Jan to Jan

Output format: Raw data values Plot data 8) get a plot

(Optional for plot: Y range: _____ to _____ Type of plot: Line Boxes 9) plot type

10) click here [Create Timeseries] [Reset Options]

The plot of Oregon Division 2 precipitation

U.S. Department of Commerce | National Oceanic & Atmospheric Administration | NOAA Research
Earth System Research Laboratory
Physical Sciences Division

Physical Sciences Division About Contact Research Data Products Outreach

Mount Willamette Valley Division Jan Precipitation Anomaly (NO Climate Division)

1. Print the plot or drag it into Word to save
2. Use the "back" button to return to the plotting page

Get the data values

Things to check or change: []

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Monthly Seasonal average 6) seasonal average gives one value per year
First month of season: Jan • second month: Jan • 7) Jan to Jan

Output format: Raw data values Plot data 8) get data values this time

(Optional for plot: Y range: _____ to _____ Type of plot: Line Boxes 9) plot type (ignored)

10) click here [Create Timeseries] [Reset Options]

Precipitation values and ranks

Rank Precip Year

Year	rank	value	year
1	0.48	1985	
2	1.47	1977	
3	2.03	1949	
4	2.37	1962	
5	2.53	2001	
6	2.54	1981	
7	2.57	1963	
8	2.72	2005	
9	3.40	1979	
10	3.49	1957	
11	3.42	1984	
12	3.41	1991	
13	3.94	1950	
14	5.12	1993	
15	5.24	1960	
16	5.30	2007	
17	5.49	1992	
18	5.50	2009	
19	10.54	1996	
20	10.86	1972	
21	11.06	1969	
22	11.09	1971	
23	11.03	1965	
24	11.24	1951	
25	11.60	1990	
26	11.69	1974	
27	11.73	1959	
28	12.80	1950	
29	12.81	1954	
30	12.96	1956	
31	13.69	1964	
32	14.57	1970	
33	14.92	2006	
34	15.38	1953	

5 driest Januaries
5 wettest Januaries

2) Get 500mb height composite anomalies for 5 driest Januaries

1. Go to the ESRL PSD Interactive Plotting and Analysis Pages <http://www.esrl.noaa.gov/psd/cgi-bin/data/getpage.pl>
2. Find the "Monthly/Seasonal Mean Composites" Link, then

Click here to go to the composite page

Pages matching the search criteria above:

Monthly/Seasonal Mean Composites
Plots monthly and seasonal composites of variables (mean, anomalies and long-term means). Lat/Lon plots for any desired region, and height crosssections are available.

Linear Monthly/Seasonal Correlations
Plots monthly and seasonal correlations of gridded variable with ocean/atmosphere index time-series like the PNA or ENSO. User can specify their own time-series.

3. Or, go to the composites page directly at: <http://www.esrl.noaa.gov/psd/cgi-bin/data/composites/printpage.pl>

Create a map (top half of page)

Monthly/Seasonal Climate Composites

Plot seasonal composites (averages) of the mean or anomalies (mean - total mean) of variables from the NCEP reanalysis and other datasets. NCEP data is available from **Jan 1948 to Dec 2010**

1) select "geopotential height" 2) select 500mb level

Which variable? [Geopotential Height] Level? [500mb]

Beginning month of season: [Jan] Ending month: [Jan] 3) Jan to Jan

Enter years for composites (from 1 to 16): e.g. 1972. For seasons that span a year (e.g. DJF), please enter year of the LAST month.

To subtract one set of years from another, use a minus sign (-) before the years that are to be subtracted.

[2001 1962 1949 1977 1995] 4) years to composite

OR Enter range of years: to (optional minus to)

OR List of years: Enter filename

OR Years from values in Time Series: None

IF CUSTOM Time Series:

Value to composite on:

Type of comparison: Value Greater or equal to value

Lag: Plot composites for 0 months before or after dates chosen

Things to check or change: []

Create a map (bottom half of page)

Things to check or change: []

Plot type? [Mean] #Anomaly# Long Term Mean 5) select Anomaly

Scale plot size (%) Plot contour labels? [No] #Yes

Reverse colorbar? [No] #Yes

Override default contour interval? Interval: Range: low High

Map projection: [Northern Hemisphere] 6) select Northern Hemisphere

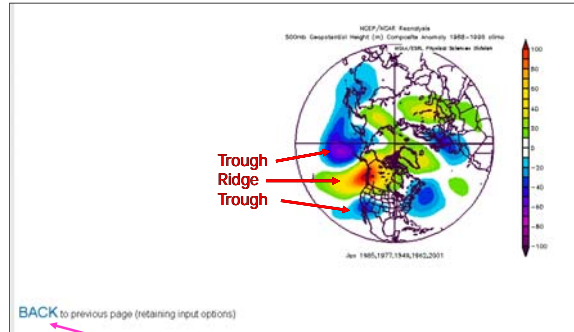
if CUSTOM projection:
Lowest lat: (-90 to 90) Highest lat: 90
Western-most longitude (0 to 360): 0 Eastern-most longitude: 360
CUSTOM projection: Northern Hemisphere Polar Stereographic

Choose height range if CROSSSECTION:
Lower level: 1000mb Upper level: 10mb

Create Plot [] [] [] 7) create plot

NOTE: It's not likely that there will actually be a bug, but instead it's probably the case that something has been filled in in an inconsistent or infeasible fashion.

The composite anomaly map



Click here to return to selection page with everything still filled in to plot another variable.

Next variable (Omega)
(top half of page)

Things to check or change: []

Monthly/Seasonal Climate Composites

Plot seasonal composites (averages) of the mean or anomalies (mean - total mean) of variables from the NCEP reanalysis and other datasets. NCEP data is available from **Jan 1948 to Dec 2010**

1) select "Omega" 2) select 500mb level

Which variable? [Omega (hPa)] Level? [500mb]

Beginning month of season: [Jan] Ending month: [Jan] 3) Jan to Jan

Enter years for composites (from 1 to 16): e.g. 1972. For seasons that span a year (e.g. DJF), please enter year of the LAST month.

To subtract one set of years from another, use a minus sign (-) before the years that are to be subtracted.

[2001 1962 1949 1977 1995] 4) years to composite

OR Enter range of years: to (optional minus to)

OR List of years: Enter filename

OR Years from values in Time Series: None

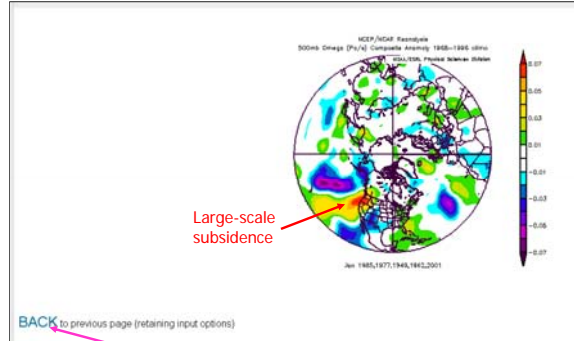
IF CUSTOM Time Series:

Value to composite on:

Type of comparison: Value Greater or equal to value

Lag: Plot composites for 0 months before or after dates chosen

The composite anomaly map for 500m Omega



Click here to return to selection page with everything still filled in to plot another variable.