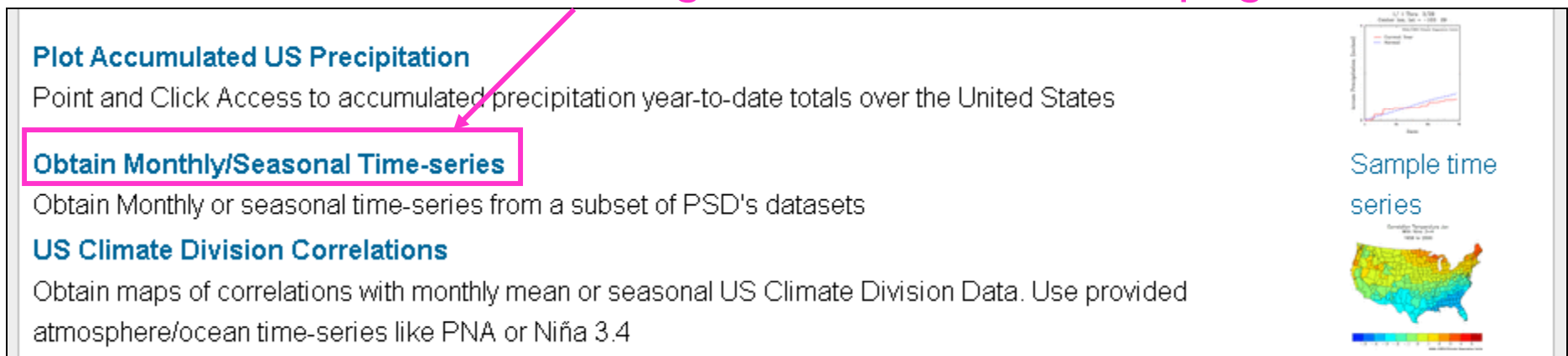


1) Create a Climate Division Time Series

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 "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

Sample time series



3. 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 (esrl.psd.data@noaa.gov).

Help and Background

[Instructions](#)

Related Time Series Analysis Pages

[Extract Daily Timeseries](#)

[Plot monthly correlations w/gridded climate data](#)

[Plot monthly correlations 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	Time Range	Information
<input type="radio"/> NCEP/NCAR Reanalysis monthly means	1948-Dec 2010	INFO
<input type="radio"/> 20th Century Reanalysis V2 monthly means	1871-2008	INFO
<input type="radio"/> NCEP/DOE AMIP-II Reanalysis monthly means	1979-2007	INFO
<input type="radio"/> Interpolated OLR	1974-Feb 29 2008	INFO
<input checked="" type="radio"/> US Climate Division: temperature, precipitation and Palmer Drought Severity Index (PDSI)	1895-Dec 2010	INFO
<input type="radio"/> Kaplan SST	1856-Jan 2006	INFO
<input type="radio"/> U of Delaware Precipitation	1856-2006	INFO

[Go to Selection Options](#)

1. Select US Climate Division Data

2. Click here

Plot the January averages for Oregon Division 2

Things to check or change: []


<p>Timeseries Extraction Page</p> <p>Related information:</p> <p>List of available divisions</p> <p>Map of climate divisions</p> <p>Data are from NCDC. Please see their dataset documentation link from their plotting page for dataset and attribution information.</p> <p>These data can be plotted from the Western Regional Climate Center Webpages.</p> <p>Choose:</p> <p>Plots of data from one month over a period of years at one climate division</p> <p>Plots of data for all months of the year over a period of years for one climate division.</p> <p>Climate Division</p>	<p>Create a monthly/seasonal mean time series from the US Climate Division Dataset</p> <p>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.</p> <p><input type="radio"/> Temperature <input checked="" type="radio"/> Precipitation <input type="radio"/> Palmer Drought Data 1) select precipitation</p> <p>[State: <input type="text" value="Oregon"/>] [Division: <input type="text" value="2"/>] 2&3) select state and division</p> <p>Year range (1895-present available): [<input type="text" value="1948"/> to <input type="text" value="2010"/>] 4) set to 1948 to 2010</p> <p>For seasons that span a year end, the year is the last month of the season</p> <p><input type="radio"/> Mean <input checked="" type="radio"/> Anomaly (1971-2000 climatology) <input type="radio"/> Climatology <input type="radio"/> Ranked values <input type="radio"/> Ranked: Sorted values 5) select anomaly</p> <p><input type="radio"/> Monthly <input checked="" type="radio"/> Seasonal average -- 6) seasonal average gives one value per year</p> <p>First month of season: <input type="text" value="Jan"/> second month: <input type="text" value="Jan"/> 7) Jan to Jan</p> <p>Output format: <input type="radio"/> Raw data values <input checked="" type="radio"/> Plot data 8) get a plot</p> <p>(Optional for plot: Y range: <input type="text"/> to <input type="text"/> Type of plot: <input type="radio"/> Line <input checked="" type="radio"/> Boxes) 9) plot type</p> <p>10) click here [<input type="button" value="Create Timeseries"/> <input type="button" value="Reset Options"/>]</p>
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Maps:

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

The plot of Oregon Division 2 precipitation

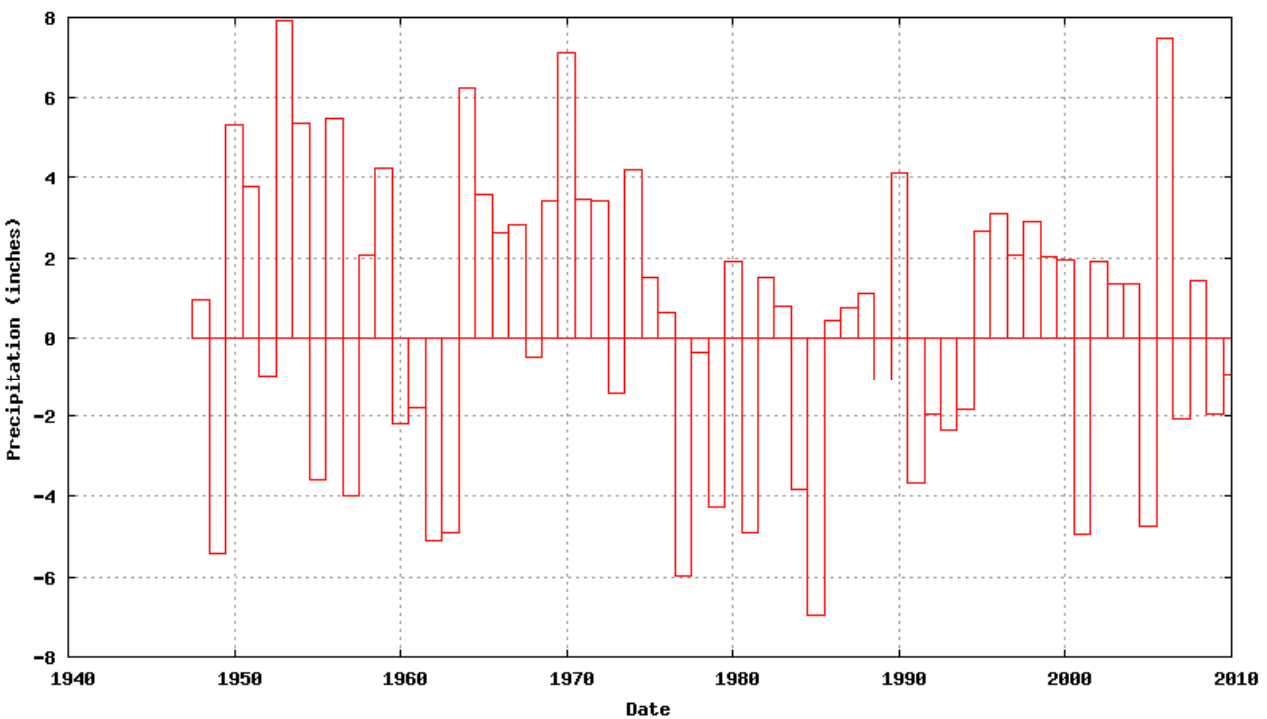
U.S. Department of Commerce | National Oceanic & Atmospheric Administration | NOAA Research

 **Earth System Research Laboratory**
Physical Sciences Division

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Oregon: Willanette Valley **Division Jan Precipitation Anomaly (US Climate Division)**



1. Print the plot or drag it into Word to save

2. Use the "back" button to return to the plotting page

U.S. Department of Commerce | National Oceanic and Atmospheric Administration
Earth System Research Laboratory | Physical Sciences Division
<http://www.esrl.noaa.gov/psd/cgi-bin/data/timeseries/timeseries.pl>

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Get the data values

Things to check or change: []

Timeseries Extraction Page	<h3>Create a monthly/seasonal mean time series from the US Climate Division Dataset</h3>
Related information:	<p>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.</p>
List of available divisions	<p><input type="radio"/> Temperature [<input checked="" type="radio"/> Precipitation] <input type="radio"/> Palmer Drought Data 1) select precipitation</p>
Map of climate divisions	<p>[State: Oregon] [Division: 2] 2&3) select state and division</p>
<p>Data are from NCDC. Please see their dataset documentation link from their plotting page for dataset and attribution information.</p>	<p>Year range (1895-present available): [1948] to [2010] 4) set to 1948 to 2010</p>
<p>These data can be plotted from the Western Regional Climate Center Webpages.</p>	<p>For seasons that span a year end, the year is the last month of the season</p>
<p>Choose:</p>	<p>5) select sorted and ranked values [<input type="radio"/> Mean <input checked="" type="radio"/> Anomaly (1971-2000 climatology) <input type="radio"/> Climatology <input type="radio"/> Ranked values [<input type="radio"/> Ranked: Sorted values]</p>
<p>Plots of data from one month over a period of years at one climate division</p>	<p><input type="radio"/> Monthly [<input checked="" type="radio"/> Seasonal average --] 6) seasonal average gives one value per year</p>
<p>.</p>	<p>[First month of season: Jan] [second month: Jan] 7) Jan to Jan</p>
<p>Plots of data for all months of the year over a period of years for one climate division.</p>	<p>Output format: [<input type="radio"/> Raw data values] [<input checked="" type="radio"/> Plot data] 8) get data values this time</p>
	<p>(Optional for plot: Y range: [] to [] Type of plot: <input type="radio"/> Line [<input checked="" type="radio"/> Boxes] 9) plot type (ignored)</p>
	<p>10) click here [<input type="button" value="Create Timeseries"/> <input type="button" value="Reset Options"/>]</p>

Precipitation values and ranks

Rank Precip Year

Years	1948
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	3.20 1979
10	3.49 1957
11	3.62 1984
12	3.81 1991
13	3.86 1955
14	5.12 1993
15	5.26 1960
16	5.38 2007
17	5.49 1992
18	5.50 2009

5 driest Januaries

Rank Precip Year

48	10.54 1996
49	10.86 1972
50	10.88 1969
51	10.91 1971
52	11.03 1965
53	11.24 1951
54	11.60 1990
55	11.69 1974
56	11.73 1959
57	12.80 1950
58	12.81 1954
59	12.96 1956
60	13.69 1964
61	14.57 1970
62	14.92 2006
63	15.38 1953

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

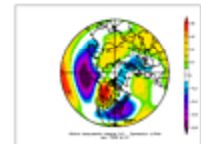
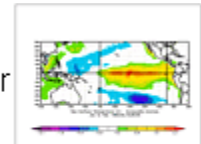
Pages matching the search criteria above:

[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

④ Which variable? [Level?

④ Beginning month of season: Ending month: [3) Jan to Jan]

④ 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.

<input type="text" value="2001"/>	<input type="text" value="1962"/>	<input type="text" value="1949"/>	<input type="text" value="1977"/>	<input type="text" value="1985"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

4) years to composite

④ OR Enter range of years: to (optional minus to)

④ OR List of years: Enter filename:

④ OR Years from values in Time Series:

If CUSTOM Time Series:

④ Value to composite on:

Type of comparison: Greater or equal to value

④ Lag: Plot composites for 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 6) select Northern Hemisphere

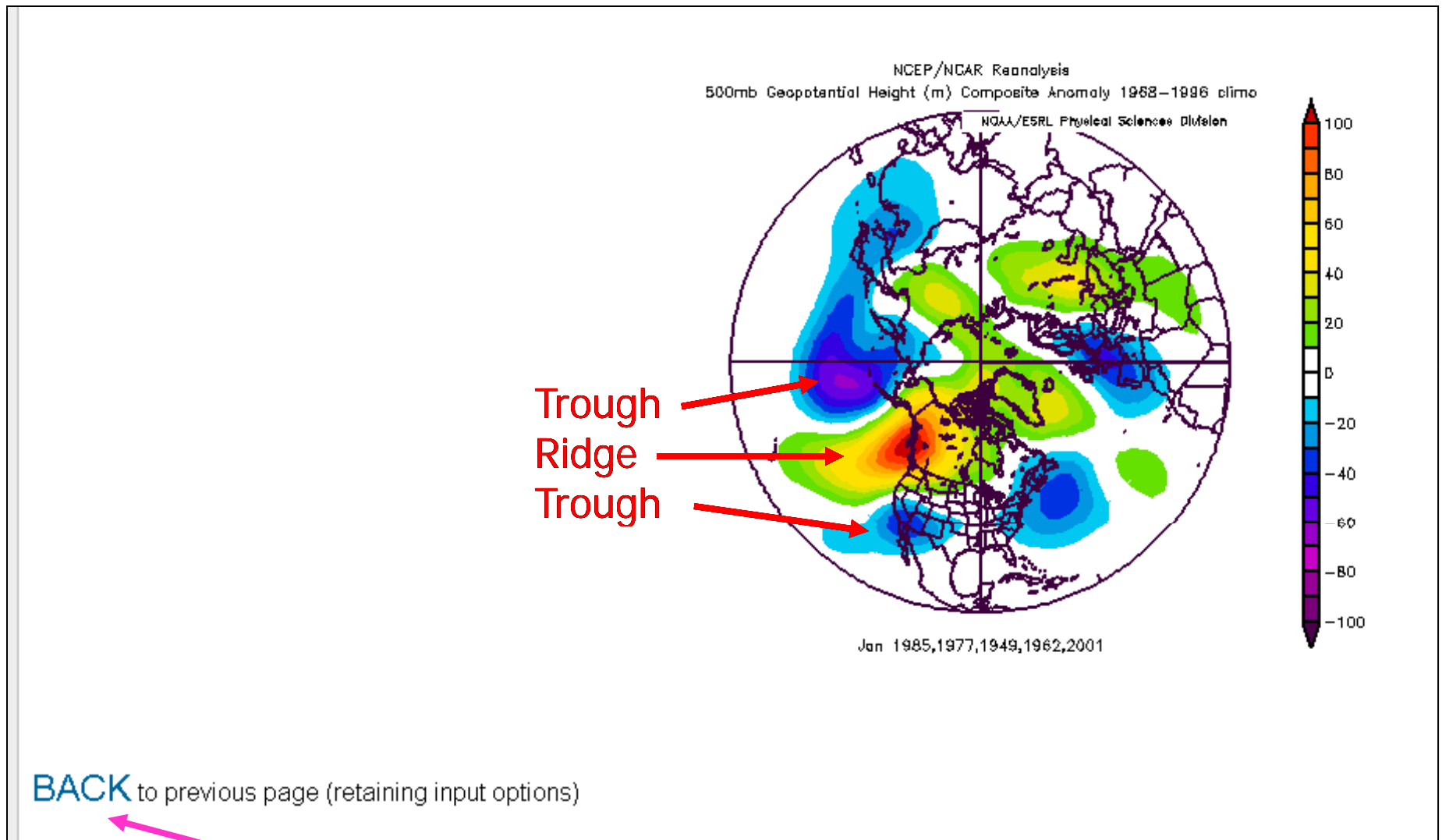
If CUSTOM projection:
Lowest lat: (-90 to 90) Highest lat: 90
Western-most longitude (0 to 360): Eastern-most longitude: 360
CUSTOM projection:

Choose height range if CROSSECTION:
Lower level Upper level

 (Report Bugs) 7) create plot

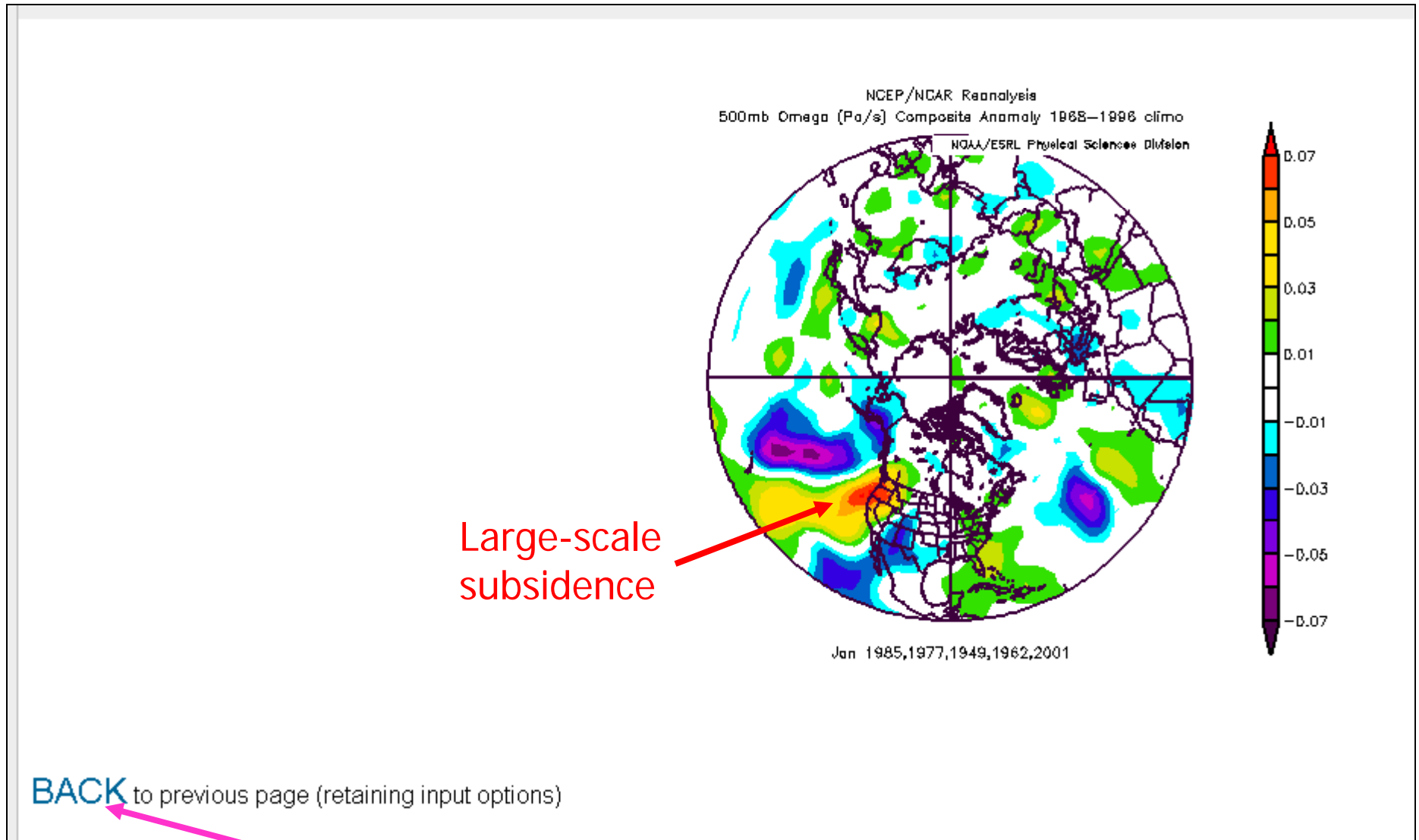
NOTE: It's not likely that there will actually a bug, but instead it's probably the case that something has been filled in in an inconsistent or infeasible fashion.

The composite anomaly map



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

The composite anomaly map for 500m Omega



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