



Title: Create a Climograph for My Location

Turn-by-Turn Instructions

1. Open the [Earth System Data Explorer](#)
2. On the LEFT side
 - a. Choose Sphere → **Atmosphere**
 - b. Choose Category → **Precipitation and Water Vapor**
 - c. Choose Dataset → **Monthly Precipitation Rate (Combined Sources)**
 - d. Year → **1995**
 - e. Month → **Jan**
3. After the map loads, select the **Time Series Data Table** on the RIGHT side.

Dataset Selection

1. Select a Sphere of the Earth System

Atmosphere ⇅

2. Select a Category

Precipitation and Water Vapor ⇅

3. Select a Dataset

Monthly Precipitation Rate (Combined Sources) ⇅

4. Select the Date

1995 ⇅

Jan ⇅

Analysis Tools

Compare Two / Swipe

Compare two datasets using a swipe bar that is dragged across the map

Identify

Retrieve dataset values for specific locations by clicking on the map

Scatter Plot

Visualize the relationship between two variables

Side-by-Side

Compare two datasets using side-by-side maps

Time Plot

Analyze how a variable changes over time for a location on the map

Data Download Options

Create Your Own Data Table

Create your own table of values for a variable for many locations on the map

Time Series Data Table

Generate a table of values for a variable over time at one location on the map

Generate Download Image

Generate an image of the map to download



4. To select a location either click a location on the map or enter the latitude and longitude. Note: Latitude is a positive number north of the Equator and a negative number south of the Equator. Longitude is a positive number for locations east of the Prime Meridian and a negative number west of the Prime Meridian.
5. The Start Date year should be **1995**, and the month should be **Jan**.
6. The End Date year should be **2024**, and the month should be **Dec**.
7. Select the box next to **Check Box to Add 1 More Variable**.
 - a. Choose Sphere → **Atmosphere**
 - b. Choose Category → **Temperatures**
 - c. Choose Dataset → **Monthly Surface Air Temperature**
8. Click on **Generate Data Table**.

Data Table Instructions

1. Select a Location

Click a location on the map or enter the latitude and longitude of a location in the textboxes below.

Latitude:	Longitude:
<input type="text" value="44.2449"/>	<input type="text" value="-92.2901"/>

2. Select the Start and End Dates

Start Date:

<input type="text" value="1995"/>	<input type="text" value="Jan"/>
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End Date:

<input type="text" value="2024"/>	<input type="text" value="Dec"/>
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3. (Optional) Add Additional Variables

- Check Box to Add 1 More Variable
- Check Box to Add 2 More Variables
- Check Box to Add 3 More Variables

4. Select a Sphere of the Earth System for Variable #2

5. Select a Category for Variable #2

6. Select a Dataset for Variable #2

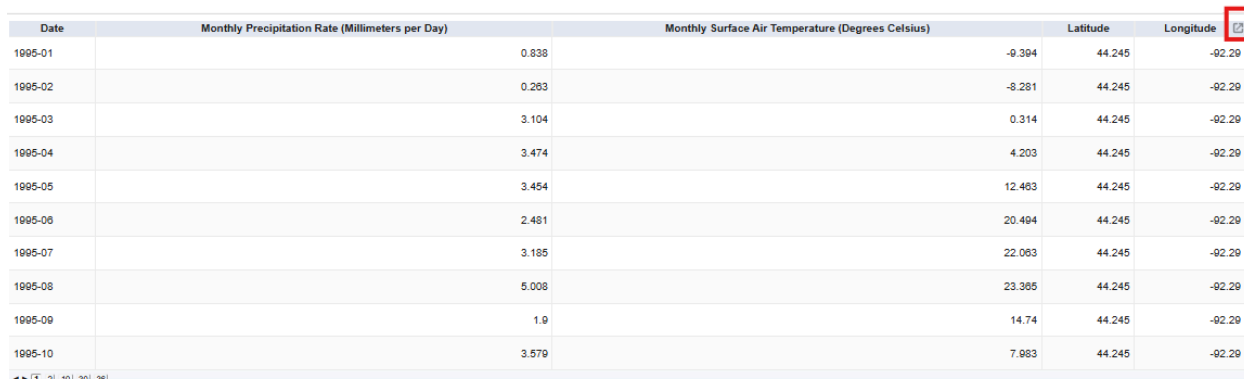
7. Generate a Data Table



8. Exit Data Table



9. After the table loads in the Earth System Data Explorer, expand it to a full screen by clicking the arrow in the box at the top right of the table.



Date	Monthly Precipitation Rate (Millimeters per Day)	Monthly Surface Air Temperature (Degrees Celsius)	Latitude	Longitude
1995-01	0.838	-9.394	44.245	-92.29
1995-02	0.263	-8.281	44.245	-92.29
1995-03	3.104	0.314	44.245	-92.29
1995-04	3.474	4.203	44.245	-92.29
1995-05	3.454	12.483	44.245	-92.29
1995-06	2.481	20.484	44.245	-92.29
1995-07	3.185	22.063	44.245	-92.29
1995-08	5.008	23.365	44.245	-92.29
1995-09	1.9	14.74	44.245	-92.29
1995-10	3.579	7.983	44.245	-92.29

Notice: If one or more of your datasets fail to load, it may be because the datasets do not have data available for the time period selected. To see a list of data collections and their available dates, visit:

[Link to data collections](#)



10. Open the [Climograph Data spreadsheet](#) that you will copy the data into. It will force a copy.
11. You can **select all the data on the screen and scroll to the bottom to copy it** (including the headings) into the spreadsheet, OR you can **click the Download CSV button** to download a comma separated value file to your computer.



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1995-09	1.9	14.74	44.245	-92.29
1995-10	3.579	7.983	44.245	-92.29
1995-11	2.079	-3.956	44.245	-92.29
1995-12	0.794	-10.282	44.245	-92.29
1996-01	3.476	-15.427	44.245	-92.29



12. If you copied the data, **paste it into cell A1 of the Raw Data tab** in the spreadsheet.
13. If you saved a file, open it and copy **columns A through E from the file into columns A through E of the spreadsheet**. The headers should start in cell A1.
14. All the graphs will be generated automatically for you.
 - a. The **climograph** will be in the Raw Data tab.
 - b. There will also be graphs for each individual year in the **Individual Years** tab. This is so you can see the difference between one year and the thirty year averages in the climograph.