



Name: _____ Date: _____ Class: _____

Title: Create a Climograph for One Location
Student Sheet

Weather and Climate Background

Read what the GLOBE program says about weather and climate below.

“Weather refers to the variations in atmospheric conditions in an area over a short period of time from seconds to weeks. For example, if it is forecast to be sunny and warm tomorrow, that’s weather. Some days are hotter, colder, wetter, or windier. Weather is variable. It changes day-to-day and even hour-to-hour.

Climate is the weather of a place averaged over a longer period of time. Climate is the probability of certain weather on any given time of the year. For example, if it is usually sunny and warm during August in San Diego, California, that’s climate. Climate describes what is usual. To understand the climate of a location, scientists average 30 years of daily weather measurements. Thirty years, with 365 days in each year – that’s 10,950 measurements of daily high temperature, 10,950 measurements of daily low temperature, and 10,950 measurements of precipitation like rain or snow – all to figure out what’s typical for a place.

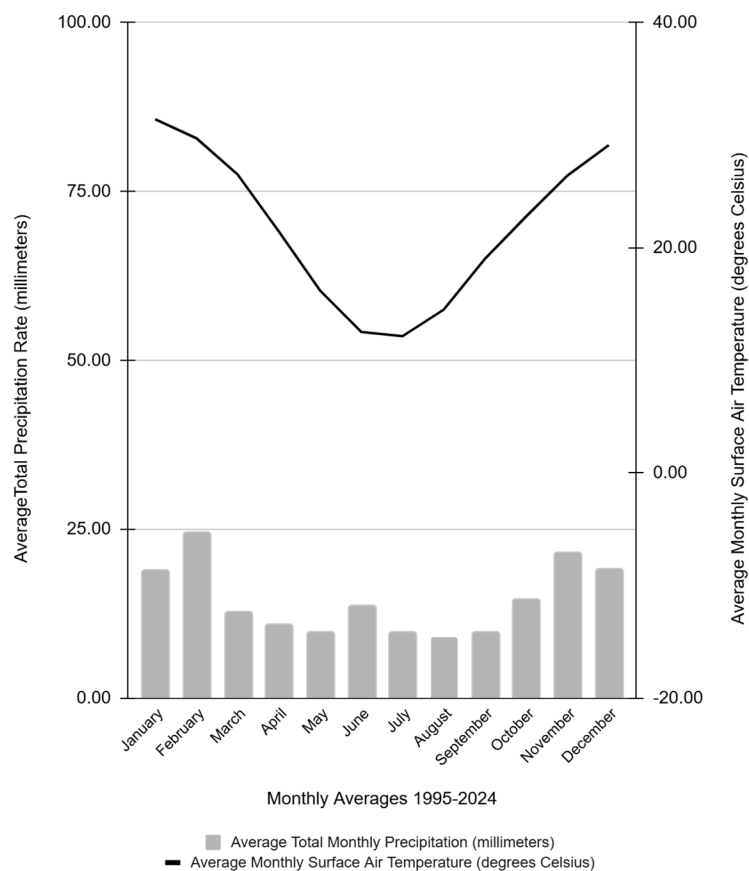
Climographs (also called climatographs) are graphs of average temperature and precipitation that describe the climate of a place. A climograph shows two different types of information on the same graph. Take a look at the sample climographs below. Notice that on the x-axis (horizontal) are the months of the year. This is not for a particular year but, rather, an average. Notice that there are two y-axis scales. On the left side is precipitation (in millimeters) and on the right side is temperature (°Celsius). The bar graph shows the amount of precipitation each month. The line graphs show the average temperature each month.” (GLOBE)

1. What do you notice about the different locations?
2. How are the climates different in the two locations?



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Climograph: Anna Creek, Southern Australia
1995-2024
(Latitude: 28.701 South, Longitude: 136.23 East)



Climograph: Edmonton, Canada 1995-2024
(Latitude: 53.607 North, Longitude: 112.379 West)

