**Drawing Climate Graphs**

Using data from this link <https://climatecharts.net>, you will draw climate graphs to look for evidence of a changing climate in a polar location.

Firstly, go to <https://climatecharts.net> and choose a polar location. Keep an eye on the ‘years’ shown in the pop up boxes – you’ll need at least 60 years of data available for the location you choose.

Remember that **climate is the average of 30 years’ of weather data**. You’ll need to select two periods, each 30 years long, for your chosen location (eg 1950-1979 and 1990-2019) using the slider bar below the map. In the image below, the 1950-1979 period has been selected.



Polar Location name (if one is given in the pop up window)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Latitude (Lat) from below the map \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Longitude (Lng) from below the map\_\_\_\_\_\_\_\_\_\_\_\_\_\_

First time period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Second time period\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use the graph paper below to construct your chosen climate graphs.

Plot the precipitation (rain or snowfall) as a bar graph using the left-hand axis. Choose an appropriate scale for your data.

Plot the temperature as crosses in the middle of the month. Then join the crosses together as a line. Choose an appropriate scale for your data.

Identify 4 similarities in the temperature patterns in the two graphs:

1)

2)

3)

4)

Identify 2 difference in the temperature patterns in the two graphs:

1)

2)

Identify 4 similarities in the precipitation patterns in the two graphs:

1)

2)

3)

4)

Identify 2 difference in the precipitation patterns in the two graphs:

1)

2)

What’s the biggest difference between the current and past climate at this location?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why do you think that is?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_