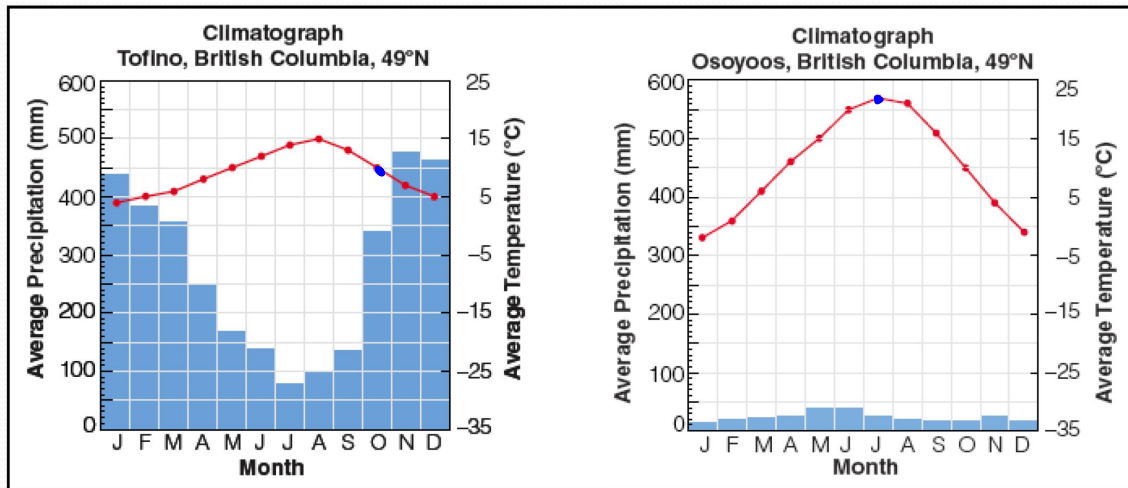


Lesson 3 - Climatographs

- You can compare biomes using the information shown in **climatographs**.
- A climatograph shows the **average temperature and precipitation** for a location over a period of **30 years** or more.
- The **bars** on the graph show the average **precipitation**.
- The **line** on the graph shows the average **temperature**.



Quick Check

Examine the differences between the climatographs for Tofino and Osoyoos.

1. (a) What does the horizontal axis of a climatograph show?

month of year

(b) Does the line connecting the dots show temperature or precipitation?

average monthly temp

(c) What does the right vertical axis on a climatograph show?

temp.

(d) What is the average temperature of Tofino in October?

10°C

(e) What is the average temperature of Osoyoos in July?

22°C

(f) In which month does Tofino have the lowest average temperature?

Jan.

(g) What does the left vertical axis on a climatograph show?

precip.

(h) What is the average precipitation in Tofino in August?

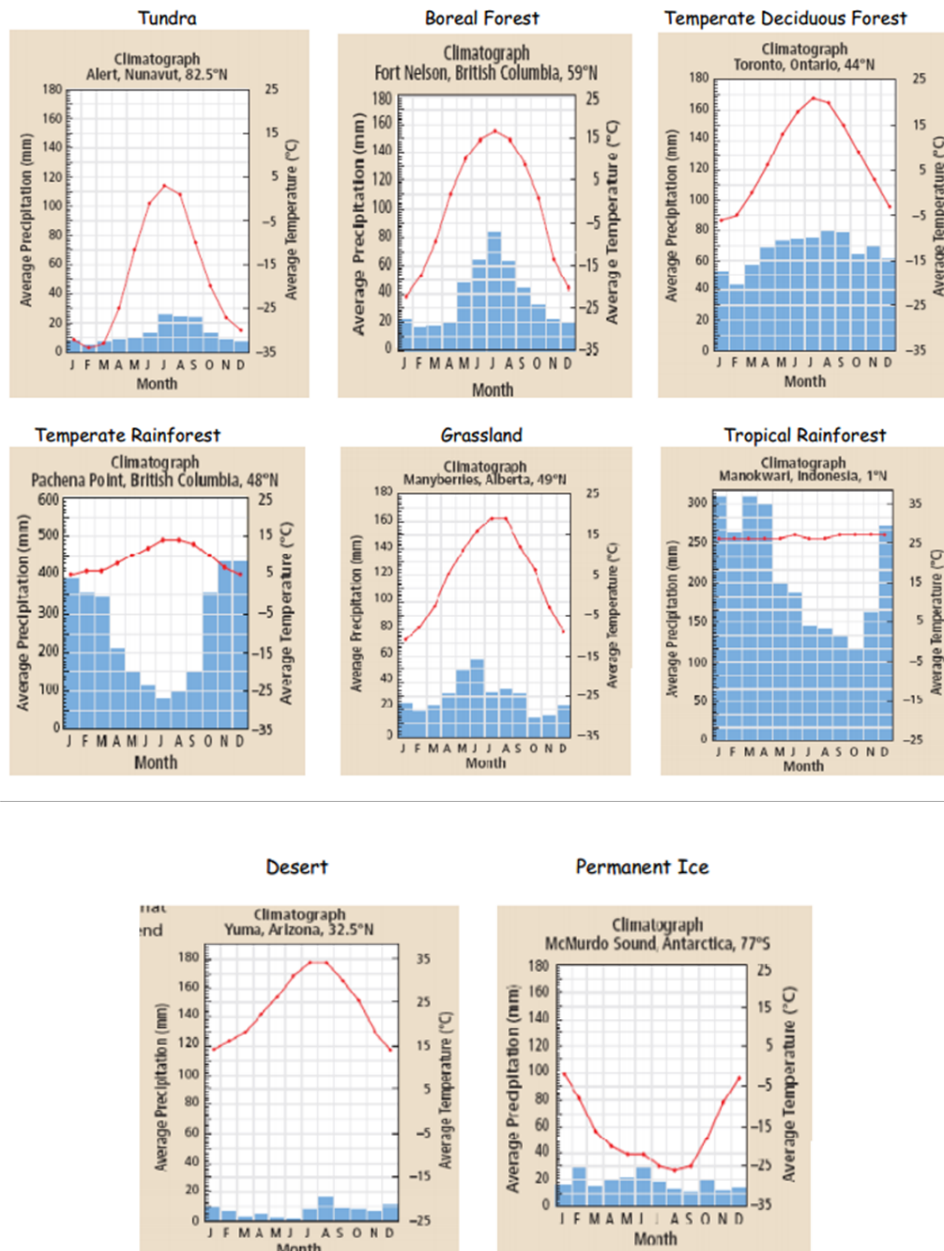
100mm

(i) How much precipitation is received in Osoyoos during its driest month?

10mm

(j) How do the average temperatures compare for the two locations in October?

Typical Climatographs for each biome

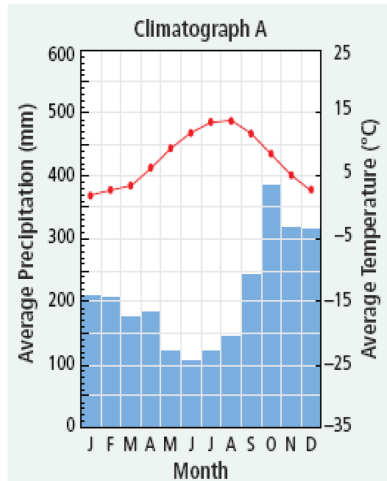


Quick Check

- Use the climatographs, biome map, and information above to answer the following questions.
 - Which biome has the most constant temperature over the course of a year?
 - Which biome has the greatest range in monthly temperatures over the course of a year?
 - Which biome has the greatest range in monthly precipitation over the course of a year?
 - In which biome(s) does precipitation exceed 100 mm in a single month?
 - For how many months of the year is the average temperature below freezing (0°C) in a grassland biome?

Practice Questions

1. Study the climatograph below and answer the following questions
 - a) What information is represented on the left-hand vertical y-axis ? _____
 - b) What information is represented by the letters along the horizontal x-axis? _____
 - c) What are the units of measurement for precipitation? _____
 - d) What are the units of measurement for temperature? _____
 - e) What is the total amount of precipitation in July? _____
 - f) What is the average temperature in December? _____



2. Using the data provided, plot a climatograph for each. Use colored bars to represent precipitation and join individual data points for temperature with a trend line.

Biome A	J	F	M	A	M	J	J	A	S	O	N	D
Precip (mm):	210	199	171	123	54	16	10	11	58	115	154	194
Temp. (°C):	27	25	25	26	25	24	22	25	27	27	27	27

Identify the biome for this climatograph

