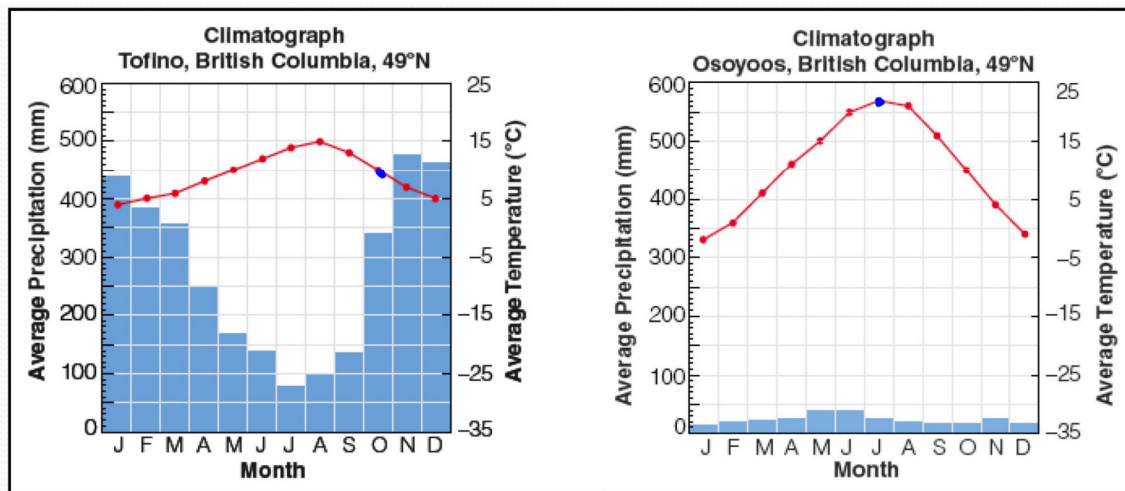


## Climatographs

- 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**.



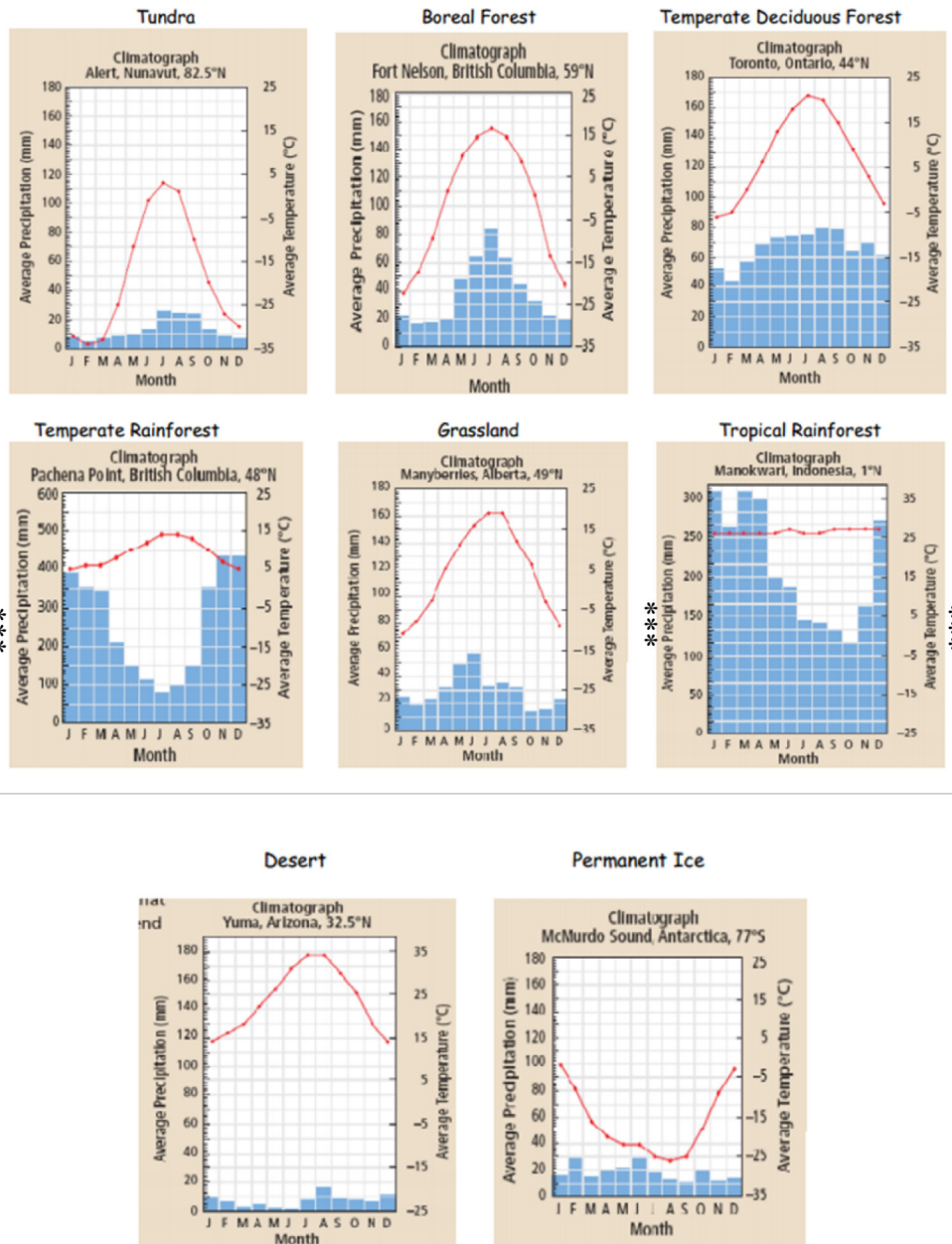
### Quick Check

Examine the differences between the climatographs for Tofino and Osoyoos.

- (a) What does the horizontal axis of a climatograph show?
- (b) Does the line connection the dots show temperature or precipitation?
- (c) What does the right vertical axis on a climatograph show?
- (d) What is the average temperature of Tofino in October?
- (e) What is the average temperature of Osoyoos in July?
- (f) In which month does Tofino have the lowest average temperature?
- (g) What does the vertical axis on a climatograph show?
- (h) What is the average precipitation in Tofino in August?
- (i) How much precipitation is received in Osoyoos during its driest month?
- (j) How do the average temperatures compare for the two locations in October?

# Typical Climatographs for each biome

\*\*\* Please note difference in axis



## Quick Check

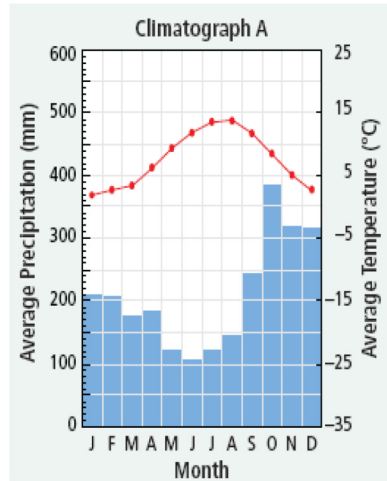
1. Use the climatographs, biome map, and information above to answer the following questions.

- 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

\_\_\_\_\_

