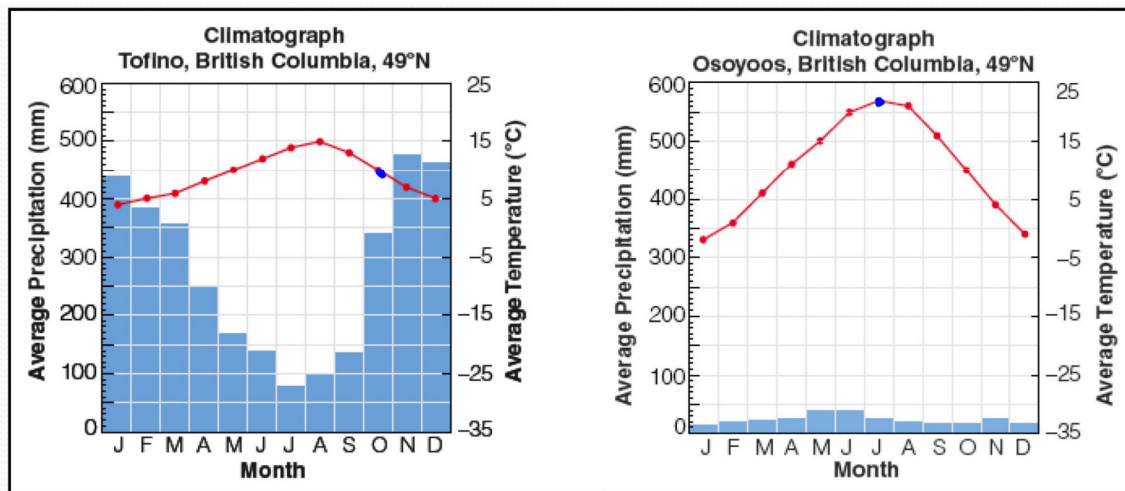


Climatographs

- 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**.



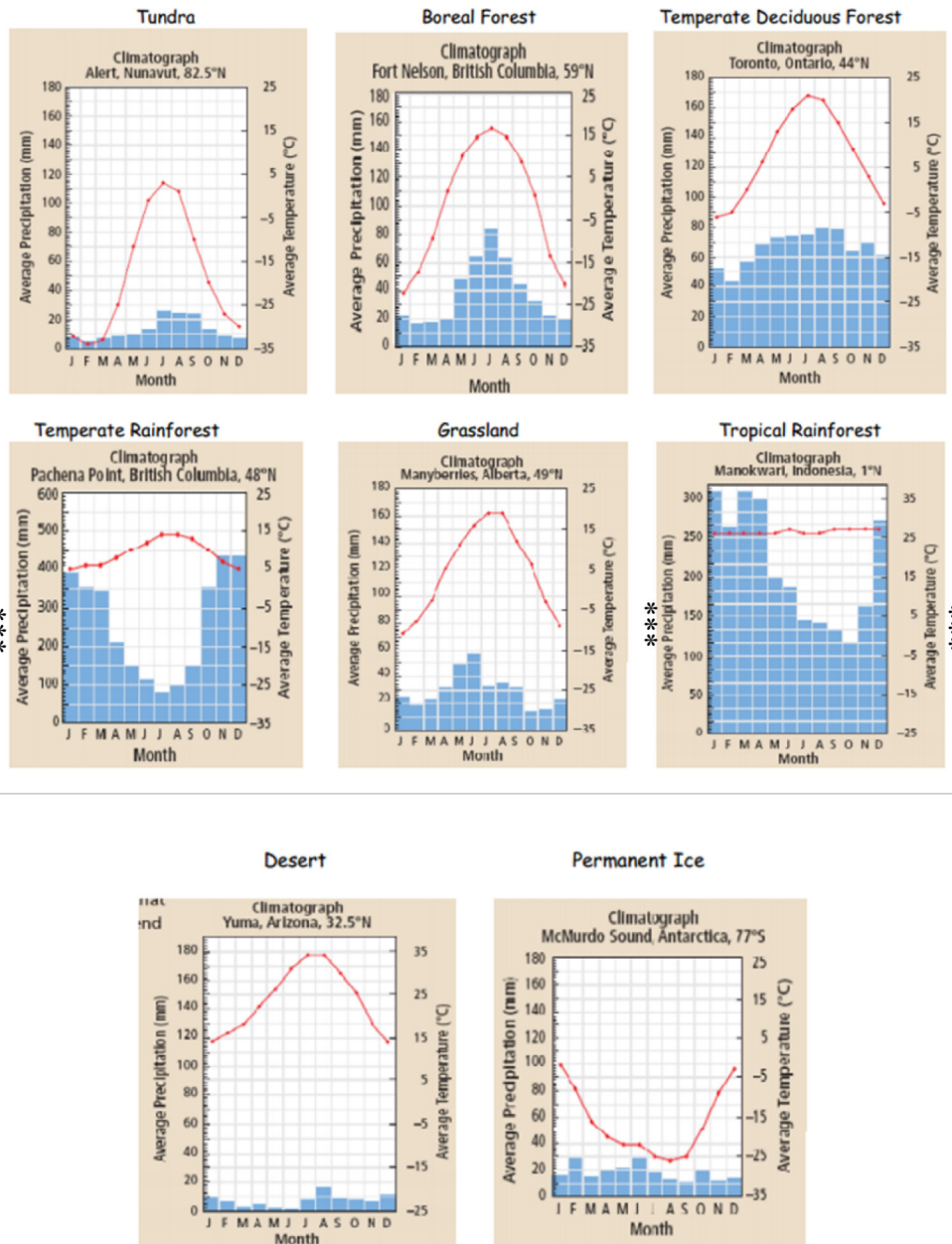
Quick Check

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

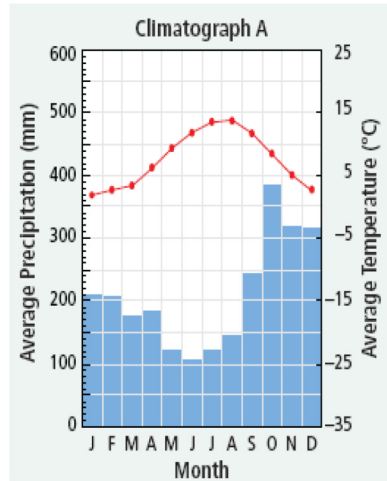
1. Use the climatographs, biome map, and information above to answer the following questions.

- 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

- What information is represented on the left-hand vertical y-axis? _____
- What information is represented by the letters along the horizontal x-axis? _____
- What are the units of measurement for precipitation? _____
- What are the units of measurement for temperature? _____
- What is the total amount of precipitation in July? _____
- 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

