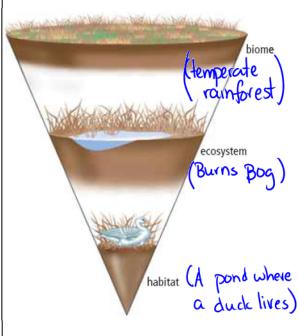
## Biomes and Ecosystems Science 10 Notes

#### **BIOMES**

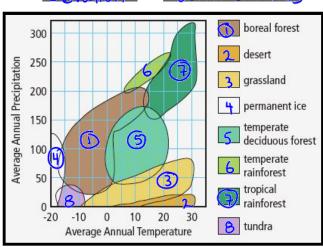
The "Biosphere" refers to anywhere on Earth living things exist.

- A <u>biome</u> is a region with similar biotic and abiotic components.
  - biotic = living things
  - <u>abiotic</u> = non-living things (air, water, soil, etc.)
- Biomes are classified based on many qualities, such as
  - precipitation (availability of water)
  - temperature
  - interactions between biotic and abiotic factors.



#### **Characteristics and Distribution of Biomes**

- Certain characteristics help to identify biomes.
  - <u>temperature</u> and <u>precipitation</u> are two of the most important abiotic factors.
  - Other factors include <u>latitude</u>, <u>elevation</u> and <u>ocean currents</u>



temperate rainforest,
-mild
-lots of rain.

tropical rainforests
-hot
-lots of water

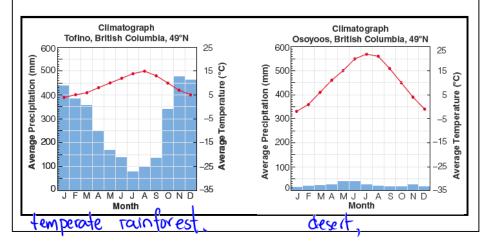
deserts
-hot
-dry.

boreal forests
- cold
- less water than BC.

grasslands - pretty warm - some water

# **Climatographs**

- A <u>climatograp</u> shows the <u>temperature</u> and <u>precipitation</u> for a location over a period of 30 years or more.
- <u>biomes</u> are often defined using information in dimatographs.
  - Examine the differences between Tofino and Osoyoos



### **Adapations and Biomes**

- Biomes are often identified with characteristic biotic factors.
  - For example, a <u>scorpion</u>, <u>cactus</u> in the desert, or a <u>caribou</u>, <u>wolves</u> on the tundra.
  - Often these organisms have adaptations for that biome.
  - An adaptation is a characteristic that

helps an organism survive and thrive in their ecosystem,

- 1. physical structural adaptation a physical feature that helps an organism survive.
- 2. <u>physiological adaptations</u> a physical or chemical event inside the organism's body that allows it to survive.

3. behavioural adaptations - behaviours that help them
Survive.

wdf-thick fur -shars teeth -claws Wolf -good sense of smell.

> - hierarchy. - quict - hunt in pades.