A global environmental type, usually referred to as a **biome**, is a large geographical area characterized by specific plant and animal communities. Biomes are usually named after their dominant vegetation type and are determined primarily by climate and geography of a region. The life forms in a biome are intricately linked to the specific environment, and depend in some way on other living and non-living things in their surroundings. So delicate is this interrelationship that any change in one component causes a ripple effect that will alter other components of the biome.

Global environmental types, or biomes, can be classified in a number of different ways, depending on the specific criteria being used. This may result in some confusion for the student as different sources may use different names and list a different number of biomes. If you are using a textbook that includes a chapter on biomes, it is best to follow the classification system and terminology it uses.

Biomes can be both terrestrial (land) and aquatic (marine). Major biomes include forest, grassland, desert, tundra, and aquatic environments. Some sources identify savanna and chaparral (Mediterranean scrubland) as distinct from grassland and forest biomes. The following outline represents a common classification of major terrestrial biomes and their respective subcategories:

Forest Biomes Desert	<b>Biomes</b>
----------------------	---------------

Boreal (Taiga) Arid

Temperate Semi-arid
Tropical Coastal
Cold

Grassland Biomes Tundra Biomes

Prairie (Temperate) Arctic Steppe Alpine

Savanna

## **Ecozones**

A number of recently published Canadian high school geography textbooks include sections dealing with small subdivisions of biomes called ecozones or bioregions. There are 15 terrestrial (land) and 5 aquatic (marine) ecozones in Canada. For example, much of southern Manitoba is in the Prairie Ecozone which is part of the Prairie Temperate Grasslands Biome.

The ArcCanada data set that accompanies the ArcView GIS software available from Manitoba Education, Citizenship and Youth, includes ecozone data and shapefiles. The Natural Resources Canada online Atlas of Canada at <www.atlas.gc.ca> as well as the Canadian Geographic Canadian Atlas Online at <www.canadiangeographic.ca/atlas> also describe and map Canadian ecozones. Parks Canada's system plan at <www.pc.gc.ca> is based on developing national parks in each of Canada's natural regions, which are similar to ecozones.