

The Torrid Zone-1 The Equatorial Rainforests

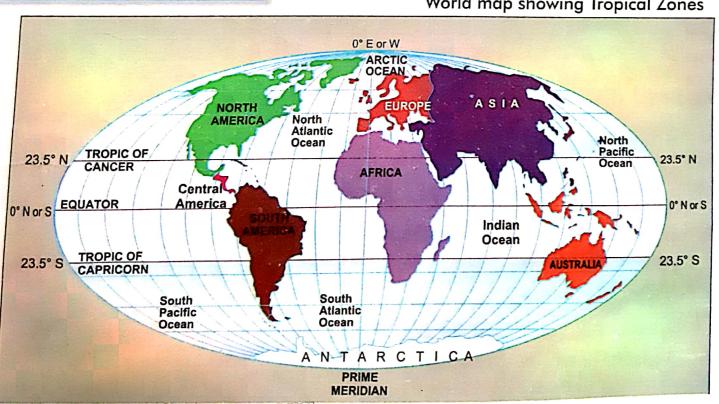
Objectives

In this lesson, you will learn about

- Location
- Climate
- Natural vegetation
- Animal life
- Life of the people
- Shifting agriculture
- Some primitive tribes of the equatorial rainforests

As mentioned earlier, each of the climatic or heat zone is further sub-divided into smaller distinct areas or natural regions. The Torrid Zone is subdivided into the Equatorial region and the Tropical region. Under the Equatorial region falls the Equatorial Rainforests. The sub zones under the Tropical region are the Tropical or Hot Deserts, Tropical Grasslands and the Monsoon Region, which will be treated in later chapters.

World map showing Tropical Zones



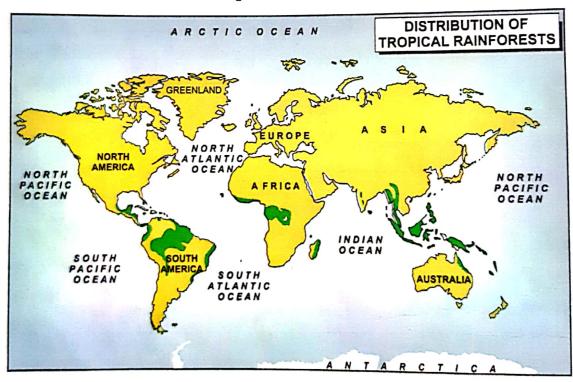
Location

As the name suggests, this region is found close to the Equator, between 0° to 10° north and south of the Equator. This region forms the hottest and wettest part of the Torrid zone. The forests in this region are distributed over three continents, namely:

- South America: The Amazon Lowlands in Brazil where they are known as the Selvas, coast of French Guiana, Columbia and parts of Equador.
- Africa: The entire Congo Basin (Zaire Basin) and the Guinea Coast in West Africa
- South-East Asia: Malaysia, Singapore, Indonesia, parts of Phillippines, Papua New Guinea, peninsular Thailand and parts of Sri Lanka



These forests are also known as Tropical Rainforests or the Selvas.

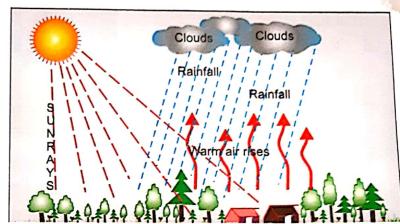


World map showing distribution of Tropical Rainforests

Climate

The climate can be classed as the typical Hot and Wet Equatorial Type, the characteristics of which are as follows:

- Since the sunrays are vertically overhead for almost throughout the year, the temperature remains uniformly high all through the year. Hence, there are no seasons in this belt.
- The duration of sunshine is 12 hours daily and the average temperature ranges around 25°C−30°C.
- Humidity is usually very high in this region, as it receives a high amount of rainfall annually, about 150 cm to 350 cm, which is well distributed throughout the year.
- Rainfall is of the convectional type, where it rains every afternoon, around 4 O' Clock, thus, also know as the 4 O' Clock Rain.
- Temperatures rise very high during the day.
- Land and water get heated.



Convectional or 4 O'Clock Rain

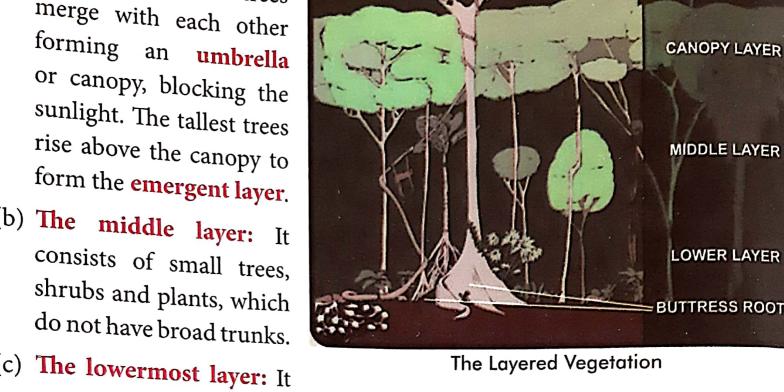
- Water changes from liquid to vapour and rises with the air.
- On reaching higher altitude, the vapour cools and changes into droplets of water to form clouds.
- ► Late afternoon, the clouds become heavy with rain drops which come down with thunder and lighting.
- The evenings and nights become cool.

Natural Vegetation

These Equatorial Rainforests have developed due to the high temperatures and abundant rainfall that occurs in this belt. These are the world's largest evergreen forests, supporting a huge variety of trees, plants, shrubs and creepers.

- These forests look evergreen. This is due to the fact that the several kinds of tree shed their leaves, flower and bear fruit at different times of the year.
- The most distinctive feature of these forests is that the vegetation is found to exi in three different layers.
- Samsung Triple camera
 Shot with my Galaxy A50

This is the topmost layer, where the branches of the tall trees merge with each other an



consists of grass, ferns, creepers, lianas and colourful orchids.

The ground remains damp as no sunlight penetrates and so the inside is dark,

The trees are of hardwood variety, have broad leaves, spread out branches and wide bases, called buttress roots, to give support to the tall trees.

The important species of trees found here are the mahogany, ebony, rosewood

cinchona rubber and palm.



Interesting!

EMERGENT LAYER

Uses of the trees

- Mahogany, ebony, rosewood for making furniture
- Cinchona for making Quinine the medicine for Malaria
- Rubber for making tyres and other rubber products
- Palm for extracting palm oil

Scanned with CamScanner