

SESSION : 10

CLASS :V

SUBJECT : (SOCIAL SCIENCE)

CHAPTER NUMBER: 4

CHAPTER NAME : Climate

SUBTOPIC : Distance from the equator, height above sea level

CHANGING YOUR TOMORROW

LEARNING OBJECTIVES:

Children will come to know about-

- Difference between weather and climate
- The factors that affect the climate of a place
- How height above the sea level affects the climate

RECAPITULATION

WEATHER

Weather is the condition of the atmosphere at a particular place and time.

CLIMATE

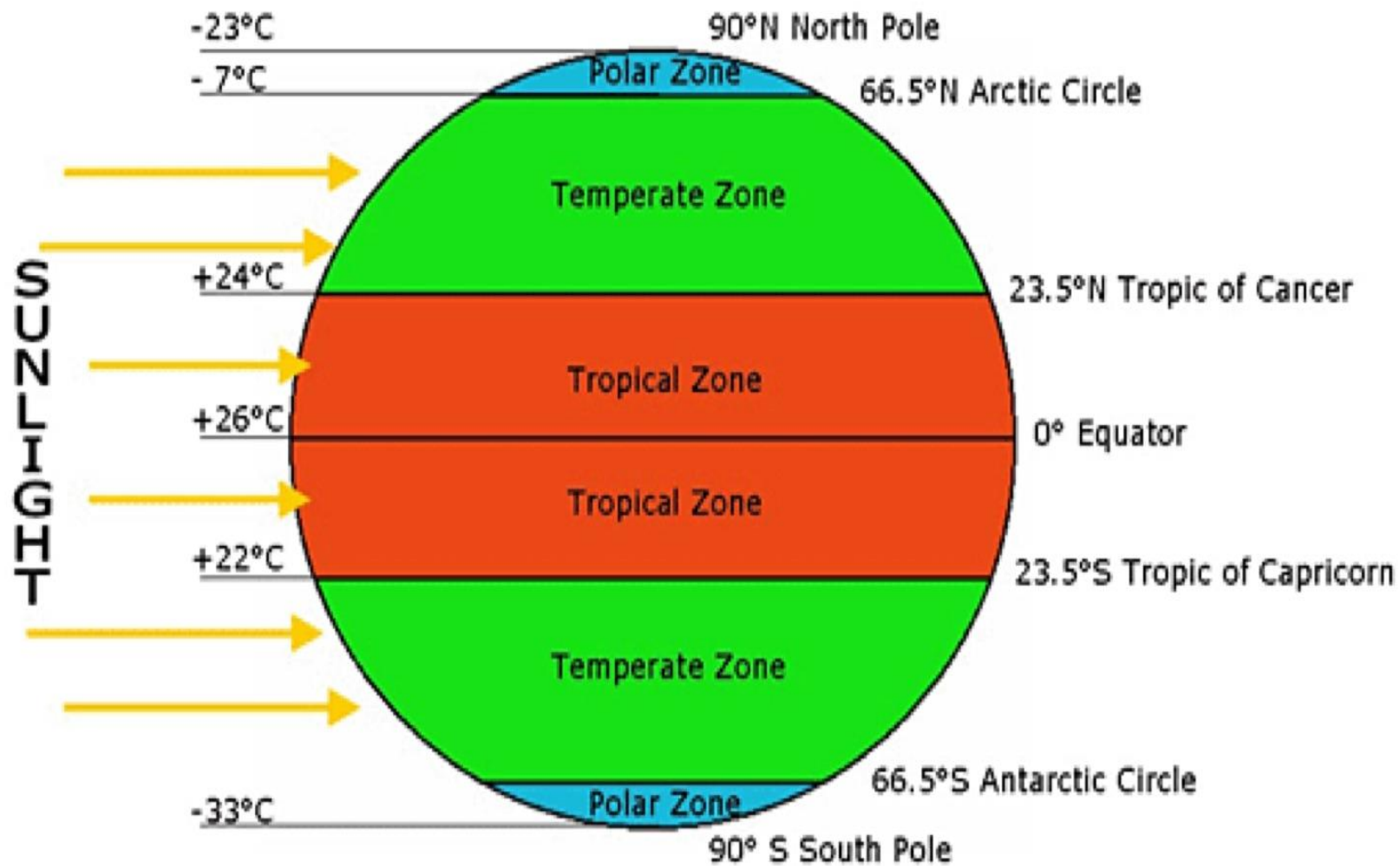
Climate, on the other hand, is the average weather condition of a place over a long period of time.

FACTORS AFFECTING CLIMATE:

➤ Latitude (Distance from the Equator)

As we know that all parts of the Earth donot receive the same amount of sunlight from the Sun, therefore based on the amount of heat received, the Earth is divided into three heat zones -

- the torrid zone
- the temperate zone
- the frigid zone
- Height above sea level
- Distance from the sea
- Winds
- Humidity

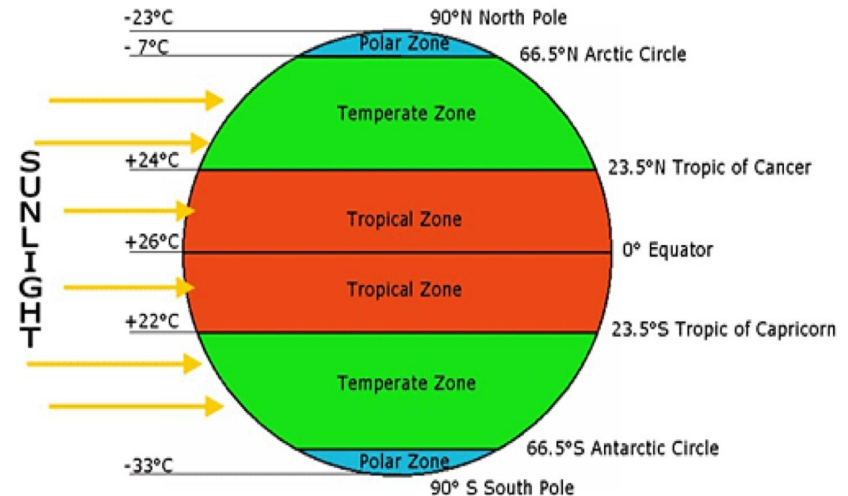


The World densest forest, the South American Amazon lies in Torrid or Tropical zone. (Tropical Rainforest)

DID YOU KNOW
Torrid zone was first identified by the ancient Greek philosopher Aristotle

TORRID OR TROPICAL ZONE

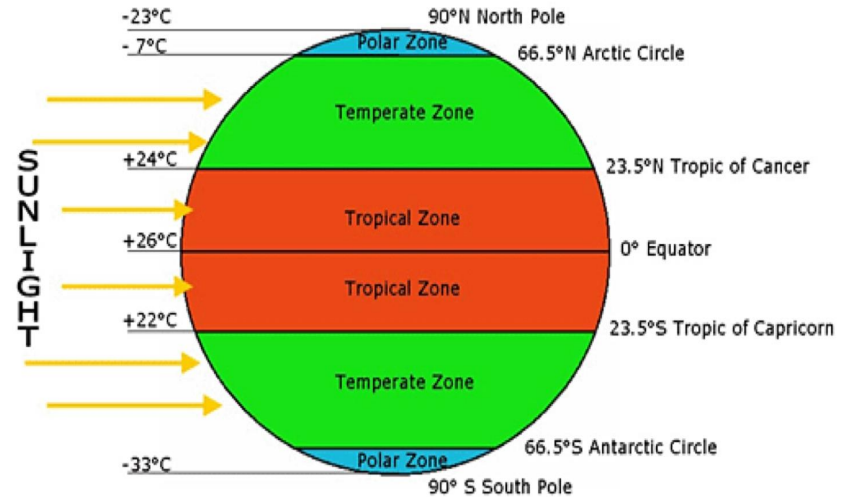
- **The region between Tropic of Cancer in North and Tropic of Capricorn in South is called torrid or tropical zone.**
- **Climate - hot and humid throughout the year**
- **Hottest zone as it receives direct rays of the Sun.**
- **Receives heavy rainfall.**



TEMPERATE ZONES

- The region between the Tropic of Cancer and the Arctic Circle in the Northern Hemisphere, and the Tropic of Capricorn and the Antarctic Circle in the Southern Hemisphere is called temperate zone..
- Climate - neither very hot nor very cold, or mild climate.

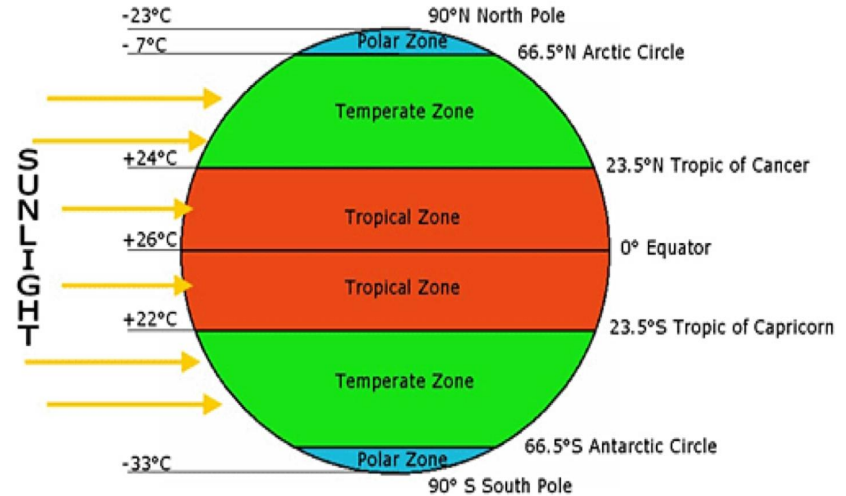
The largest temperate rainforests, the Tongass National Forest in U.S.



The land of midnight sun - Norway, where the Sun doesn't set between 20 April and 22 August.

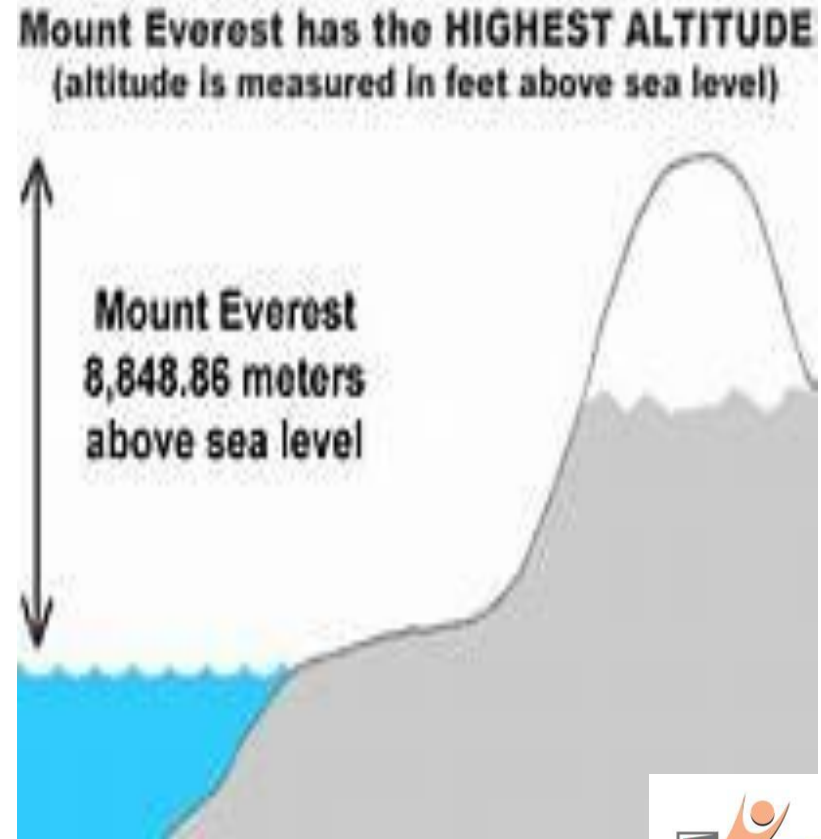
POLAR OR FRIGID ZONE

- The areas between the Arctic Circle and the North Pole in the Northern Hemisphere, and between the Antarctic Circle and South Pole in the Southern Hemisphere is called the Frigid or polar zone.
- Climate - very cold



HEIGHT ABOVE THE SEA LEVEL

The height of a place above the sea level is known as its 'altitude'. The temperature of a place depends upon its altitude. As we move above the sea level the temperature begins to decrease. This is the reason why peaks of mountains remain covered with snow. Therefore, two places located on the same temperature zones may have different climates because of the difference in their altitude.



SUMMING UP

FACTORS AFFECTING CLIMATE:

➤ **Latitude (Distance from the Equator)**

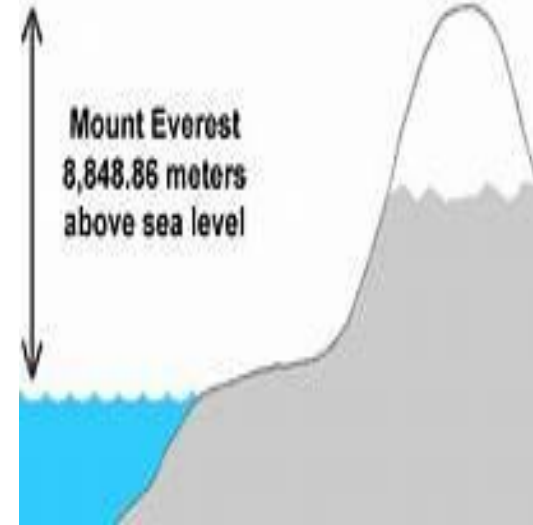
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- the torrid zone
- the temperate zone
- the frigid zone

➤ **Height above sea level**

- **Distance from the sea**
- **Winds**
- **Humidity**

Mount Everest has the **HIGHEST ALTITUDE**
(altitude is measured in feet above sea level)



HW

DRAW THE DIAGRAM OF CLIMATIC ZONES IN PROJECT RECORD

LEARNING OUTCOME:

Children will be able to know -

- The meaning of weather and climate
- How distance from the equator affect the climate of a place.
- How climate is affected by altitude

THANKING YOU
ODM EDUCATIONAL GROUP