

# Latitude and Longitude

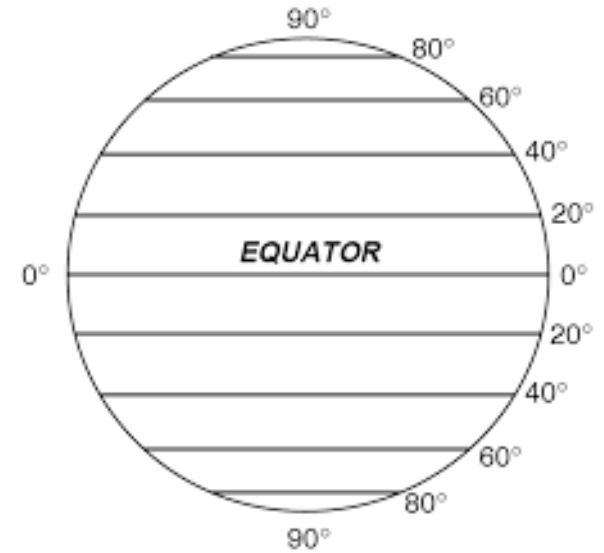
Every location in the world can be identified by a latitude and longitude “address”. Latitude and Longitude are measured in degrees (0°) and minutes (“).

## Latitude

- **Lines of Latitude:** imaginary lines that divide the world ‘sideways’
- There are 180° of Latitude
- **Equator:** The line at 0° Latitude
- **Northern Hemisphere:** There is 90° above the Equator
- **Southern Hemisphere:** There is 90° below the Equator
- **Tropic of Cancer:** 23° N latitude
- **Tropic of Capricorn:** 23° S latitude
- The distance between each line of latitude is 111km
- Lines of Latitude are also called ‘Parallels’

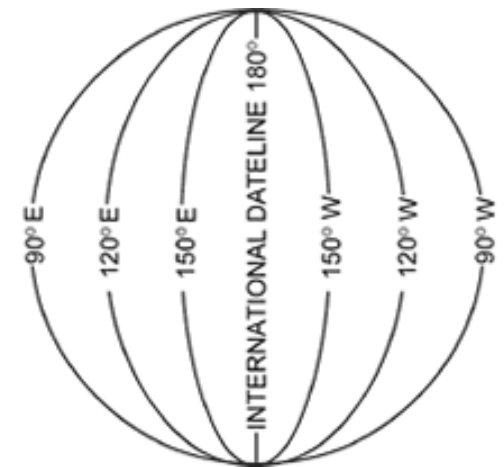
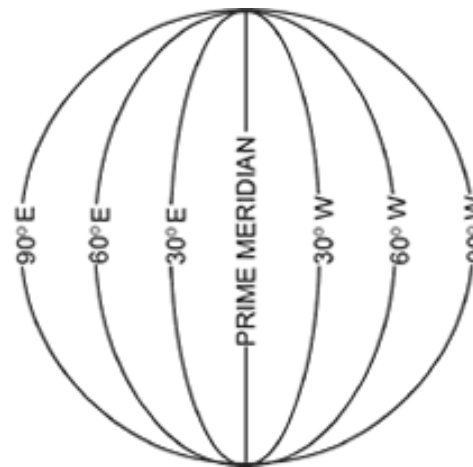
Lines of latitude are horizontal lines that run parallel to the Equator

*“The flat lines are the lat lines”*



## Longitude

- Lines of Longitude cross the world from ‘top to bottom’
- These lines begin and end at the North and South poles
- There are 360° of Longitude
- 0° Longitude is runs through Greenwich, England
- 0° Longitude is referred to as the ‘Prime Meridian’
- There is 180° East of the Prime Meridian, and 180° West of the Prime Meridian
- The Line of Longitude at 180° is the International Date Line
- The distance between lines is 79KM



### Using Latitude and Longitude

When providing a coordinate, the latitude coordinate always comes first, followed the longitude coordinate

The latitude location is either North or South – which means it is either North of the Equator or South of the Equator

The longitude location is either West or East – Which mean it is either West or East of the Primer Meridian

**EX: 1) Hudson Bay - 60° N, 85° W**

- 60° N is the latitude coordinate
- The 'N' tells us it is located North of the equator
- 85° W is the longitude coordinate
- The 'W' tells us it is West of the Prime Meridian

**EX: 2) Brazil - 10° S, 50° W**

- 10° is the \_\_\_\_\_ coordinate
- The 'S' tells us it is \_\_\_\_\_ the \_\_\_\_\_
- 50° is the \_\_\_\_\_ coordinate
- The 'W' tells us it is \_\_\_\_\_ of the \_\_\_\_\_

### Facts

- The geographic center of the Earth is the Gulf of Guinea, off the coast of West Africa. It's coordinates are 0°,0°.

