

Coordinate system - (Latitude and Longitude)

What is coordinate in geography ?

Ans: A geographic coordinate system is a three dimensional reference system that locates points on the earth surface. The unit of measure is usually decimal degrees. Geographic coordinate system (GCS) is used to define location on a model of the surface of the earth. It uses latitude and longitude to locate a point. Latitude and longitude measure angles in degrees.

Geographic coordinate has the following components:

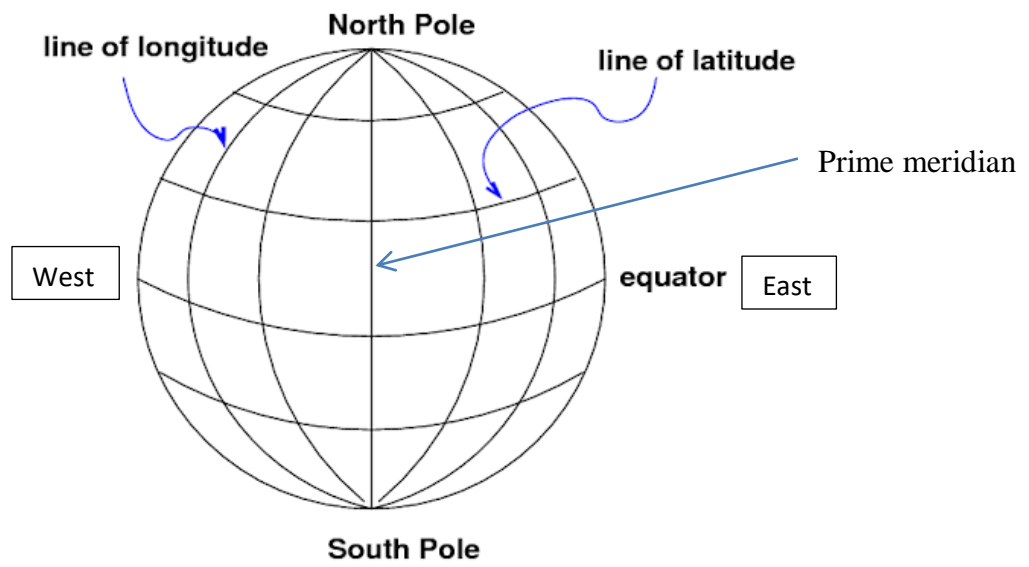
- Angular units
- Spheroid
- Datum
- Prime meridian

Latitude & Longitude:

Latitude and longitudes are the most the most common system for locating points on the earth surface. Latitude and longitudes are the angles measured with the centre of the earth. They are expressed in degree.

A longitude is an angle from the prime meridian, measured to the east or west. They are the imaginary lines that run around the earth. They all meet north and south poles. They are like arcs. These arcs are also known as “Meridians”

A latitude is the angle measured from the equator to the north or south. It is measured with 180 imaginary lines. It forms east- west circles parallel to equator. These lines are known as “Parallels”



@ @

Prepared by

D. Bora (Sir), Samaguri College