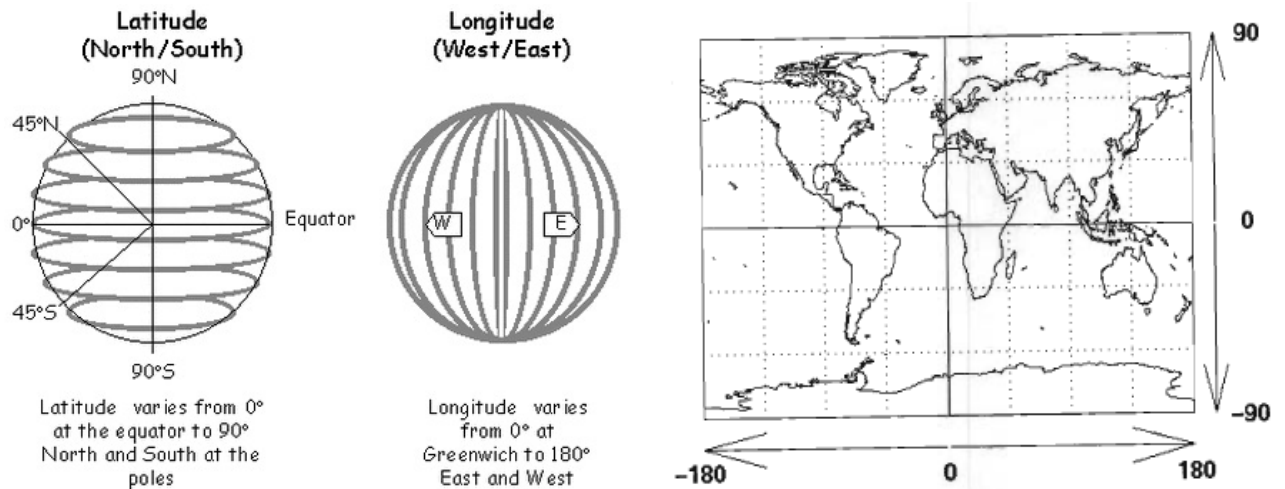


What are GPS coordinates?

GPS coordinates of a point are formed by mostly two elements i.e., Latitude and Longitude. Latitude gives north-south position of a point whereas Longitude gives its east-west position.



Latitude

The Latitude of a point is the measurement of the angle formed by the equatorial plane with the line connecting this point to the center of the Earth.

Longitude

The principle is the same for the Longitude, with the difference that there is no natural reference like the equator for the Latitude.

Longitude reference has been arbitrarily set at the Greenwich Meridian, and the Longitude of a point is the measurement of the angle formed by the half plane formed by the axis of the earth and passes through the Greenwich meridian and the half-plane formed by the axis of the earth and passing through the point.

A third element

There is a third element required to locate a point, its Altitude. In the most typical use cases, GPS coordinates are needed for locations on the surface of the Earth, making this third element less important. However, it is as necessary as the Latitude and Longitude to define a complete and accurate GPS location.

Decimal Coordinates

The Latitude and Longitude are a decimal number, with the following characteristics:

- Latitude between 0° and 90°: Northern hemisphere,
- Latitude between 0° and -90°: Southern hemisphere,
- Longitude between 0° and 180°: East of the Greenwich meridian,
- Longitude between 0° and -180°: West of the Greenwich meridian,

A Typical Reading of GPS Coordinates (Important for WAMSI On-line System)**

A typical reading of GPS Coordinates of a Point on the Surface of the Earth is look like as (41°-26'-57.40" N, 23°-15'-57.51" E) where 41°-26'-57.40" N is Latitude and 23°-15'-57.51" E is Longitude. This kind of Pair/s is/are required to be entered in WAMSI On-line System as GPS Survey under Registration Module for either marking a Point Location or drawing a Lay-out of an Immovable Waqf Property on the Satellite Imagery for various GIS Reportings.