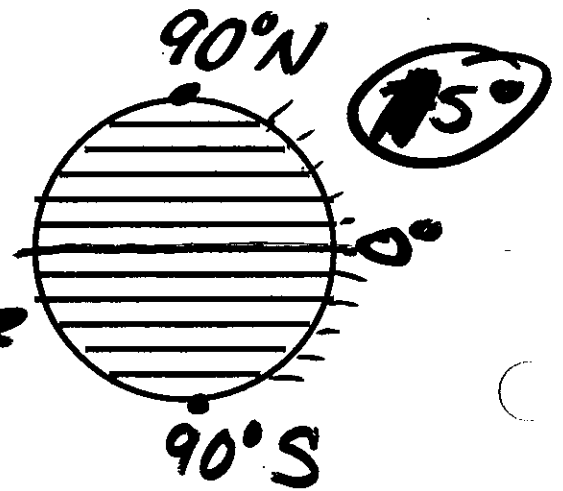


# I. Locating positions on the Earth's surface

- Humans have established a system to locate positions on Earth.
- Longitude and latitude are based on the Earth's rotation and our observations of the Sun and stars.
- Navigation is the science of locating your position on Earth.
- Coordinate systems assign a pair of numbers to every position on the Earth's surface.
- Latitude measures how far north/south of the Equator a position is.

$0^\circ$  Equator = reference line of latitude

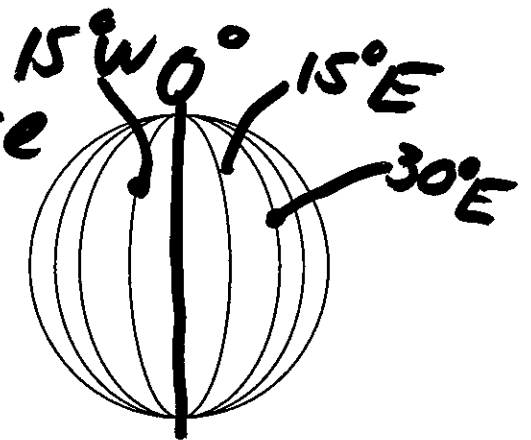
Parallel = line of latitude



• Longitude measures how far east or west of the Prime Meridian a position is.

$0^\circ$  Prime Meridian = reference line of longitude

\* touch at North and South Poles



$180^\circ$  = highest number = International Date Line