

Notes for Latitude and Longitude

- Equator – imaginary line that separates the northern and southern hemispheres of Earth, halfway between the poles.
- Lines of Latitude – imaginary lines that run parallel to the equator.
 - Measured in degrees - each line 111 km/ 69 apart.
 - Equator is 0° and each pole is 90° N or S.
 - Minutes ' and Seconds " (48° N $43''$ $837''$)
- Lines of Longitude – imaginary lines that run perpendicular to the equator (also called meridians).
 - Longitude lines are not parallel but, instead, are semi-circles, converging at the poles, and are wider at the equator.

- **Prime Meridian** – Imaginary line that separates the east and west hemispheres of Earth. (Greenwich, England)
 - Represents 0° longitude.
 - Lines to the left, run from 0° to 180° West
 - Lines the right, run from 0° to 180° East
- **International Dateline** – 180° longitude marks the beginning of each new day on Earth.
 - Places west of the international dateline are a day ahead of people to the east of the international dateline because Earth rotates counter-clockwise.
 - Time zones – each 15° longitude – one hour apart – running west (left of prime meridian).
 - USA has 6 time zones. NC is in Eastern Standard Time (EST)