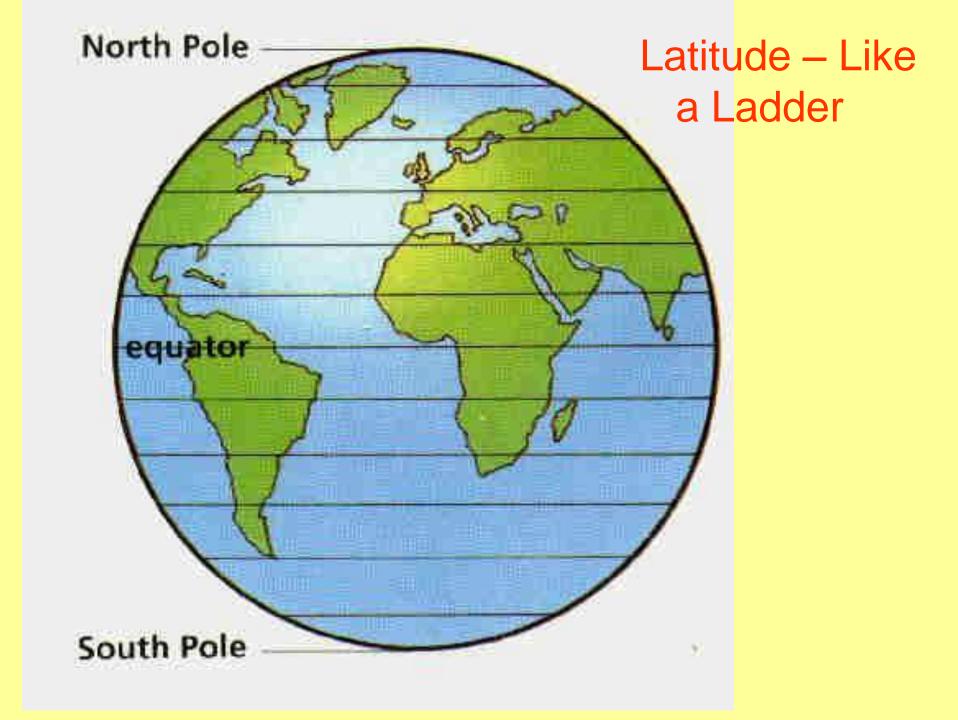


I. Latitude and Longitude

Lines of Latitude and longitude form an imaginary grid system that allows points on Earth to be located exactly

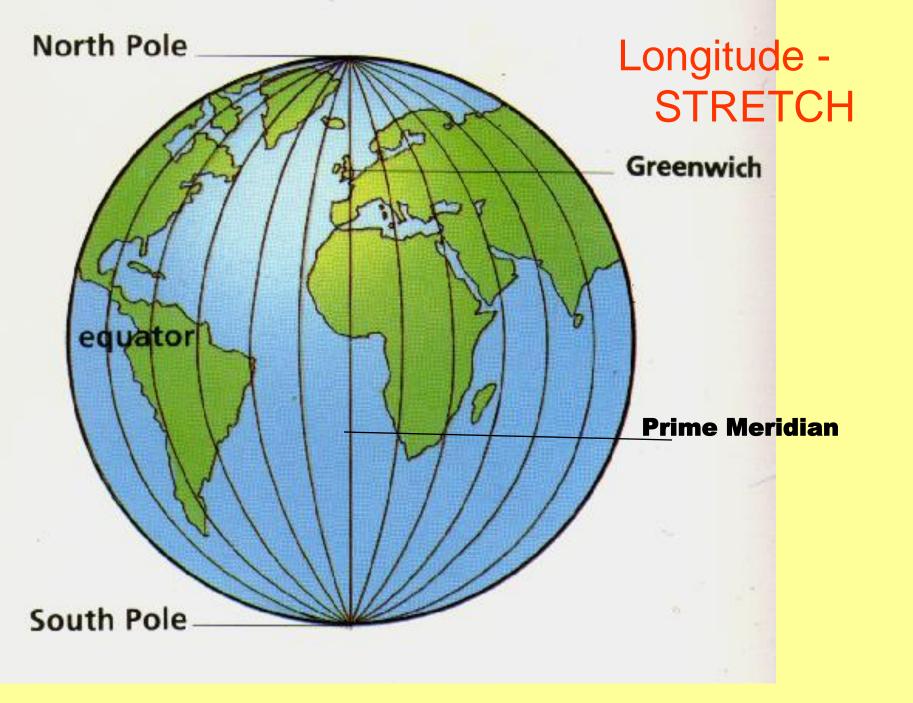
A. Latitude

- a. The <u>equator</u> is an imaginary line that circles Earth exactly halfway between the North and South Poles
 - The equator separates Earth into two equal halves called the northern hemisphere and the southern hemisphere
- b. The lines running parallel to the equator are called the lines of latitude
 - <u>Latitude</u> refers to distance in degrees either north or south of the equator
 - The lines will never intersect



B. Longitude

- a. Vertical lines (up and down) are known as the lines of longitude or the meridians
- b. The <u>prime meridian</u> is an imaginary line running from the North Pole to the South Pole passing through Greenwich, England but does not completely circle the Earth
 - It is the 0 degree reference line for longitude
- c. <u>Longitude</u> refers to distances in degrees east or west of the prime meridian



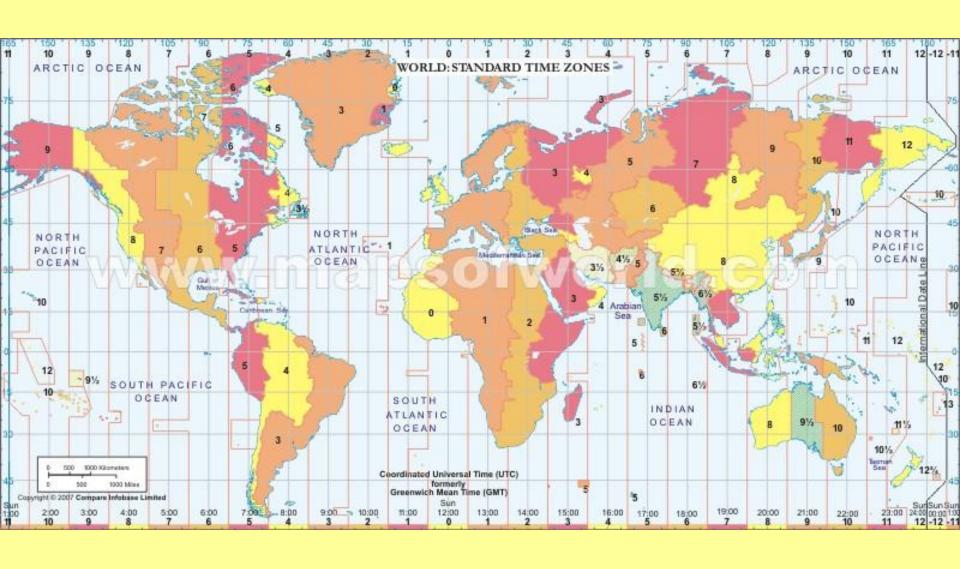
II. Earth Time

- Earth rotates one full turn every 24 hours
 - When half of the earth is facing the sun and is day time the other half is in darkness and in night time

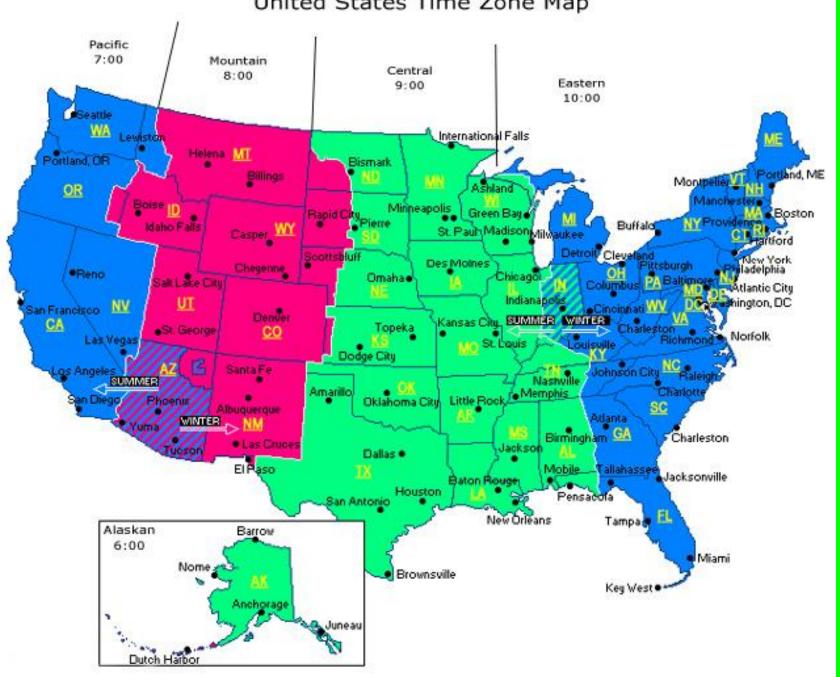
A. Time Zones

Earth is divided into time zones

- Because Earth takes 24 hours to rotate it is divided into 24 time zones
 - Time zone boundaries have been adjusted in local areas to outside of cities
 - Pierre and Fort Pierre different time zones

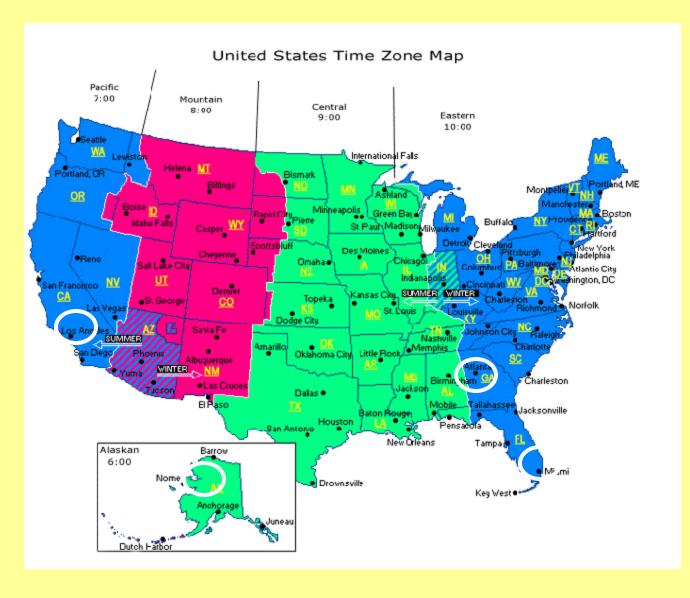


United States Time Zone Map



B. Calendar Days

- You gain or lose time each time you travel through a time zone until at some point you gain or lose a whole day
- The <u>International Date Line</u> is the 180 degree meridian that is the transition line for calendar days
 - If you were traveling west across the International Date Line you would advance your calendar one day
 - If you were traveling east you would move your calendar back one day



1. If it is 9pm in Atlanta – What time is it in Alaska?

2. If it was 6am in Los Angeles – What time is it in Miami?