

Latitude and Longitude

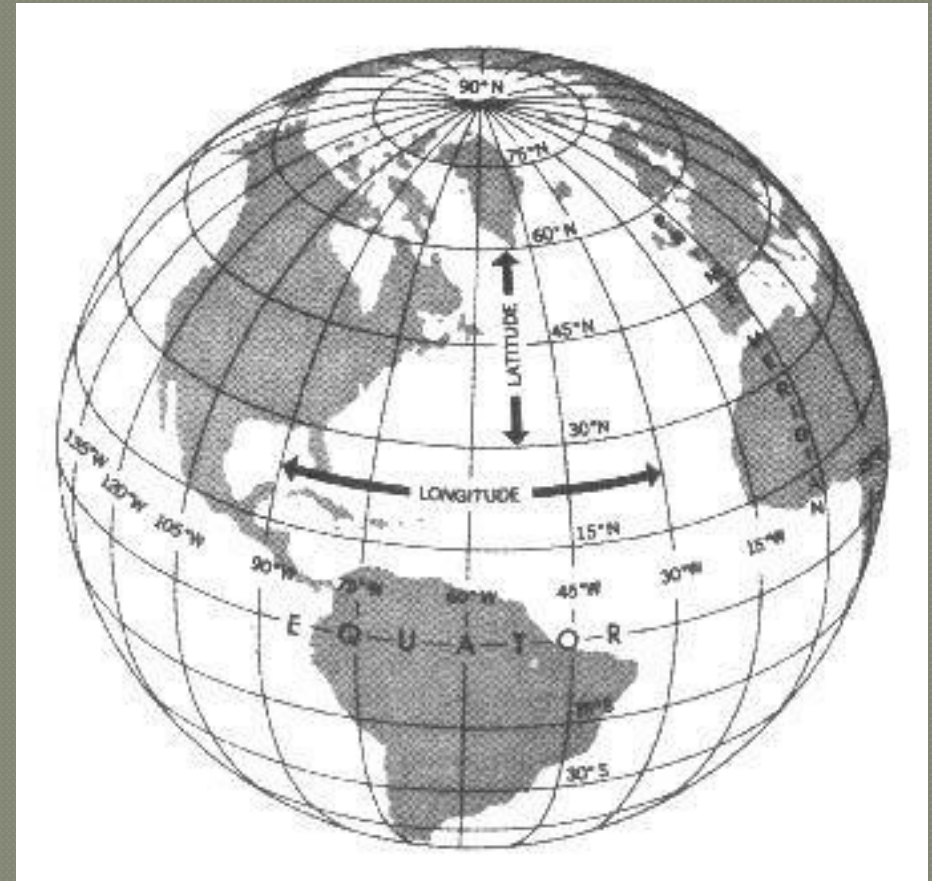
Time Zones

CGC1D1 - Mr. A. Wittmann



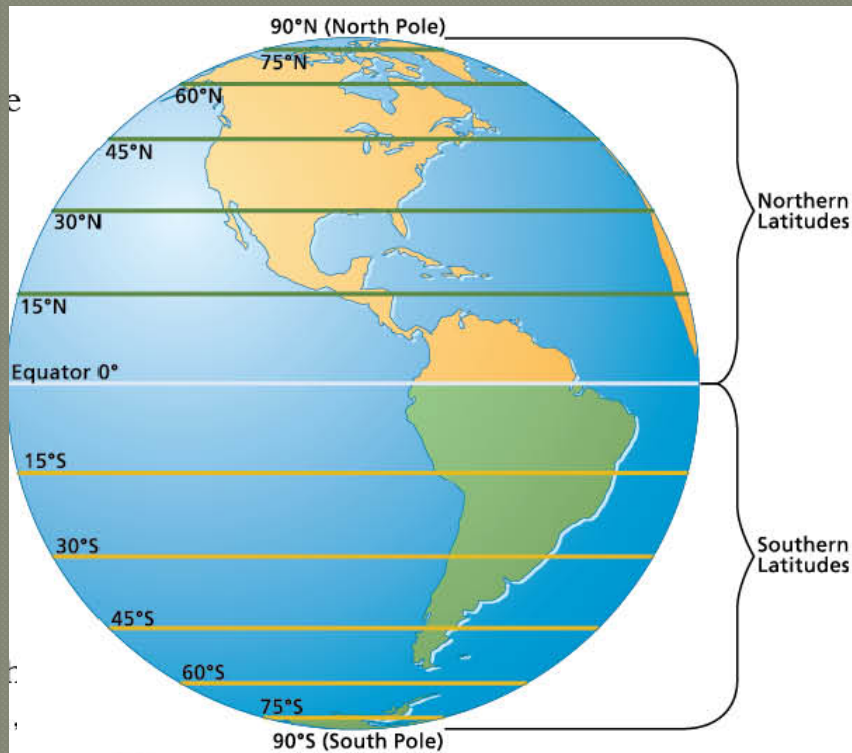
Understanding Latitude and Longitude

- Lines of **latitude** and **longitude** cross one another forming a **grid system** around the earth.



<http://www.navfltsm.addr.com/globe.jpg>

Latitude

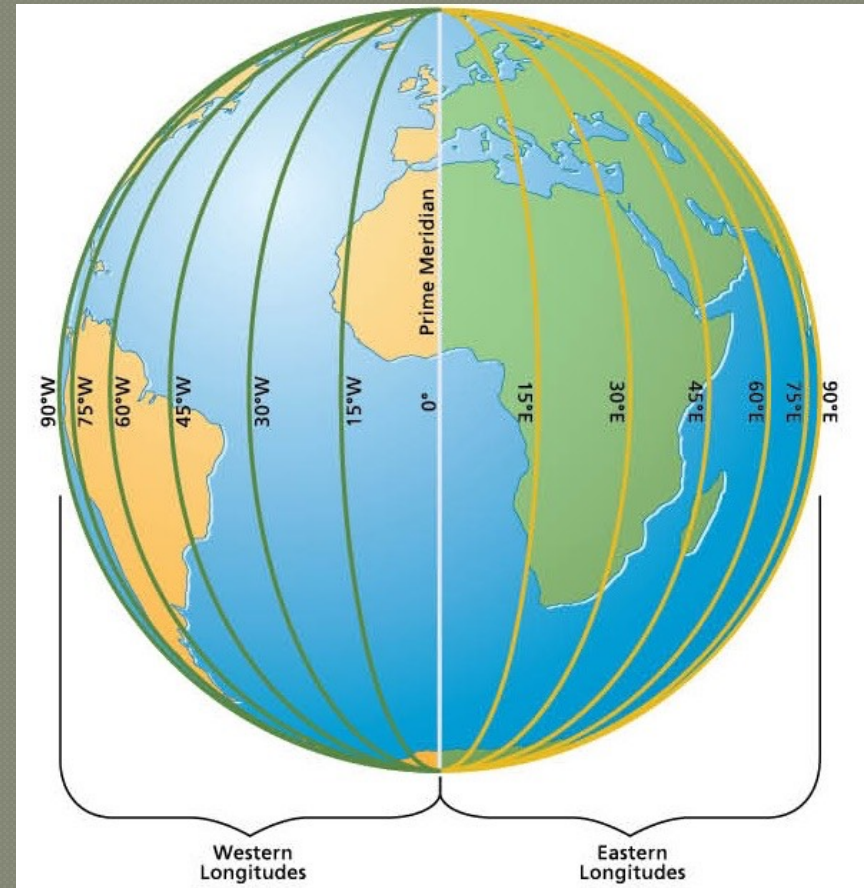


Maps101.com

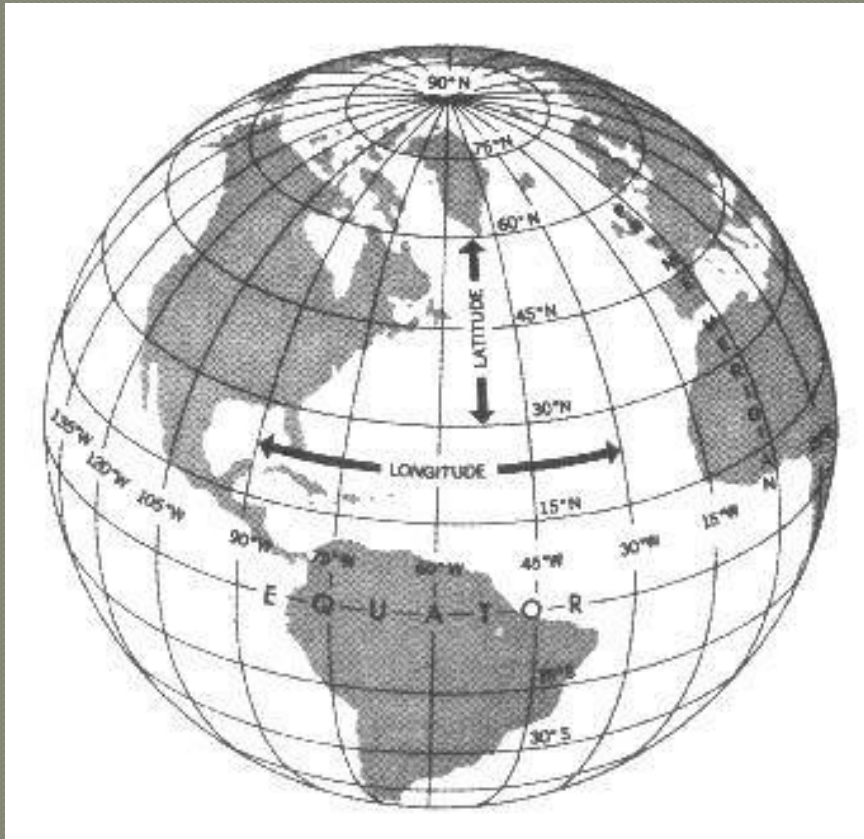
- Lines of latitude are also called **parallels**
- Circle the earth parallel to the **Equator**
- Measure north and south of equator in **degrees**
- Equator = 0° latitude.
- North Pole = 90°N

Longitude

- Lines of longitude are also called **meridians**
- Circle the earth from Pole to Pole.
- Measure east and west of **Prime Meridian = 0°** longitude



Absolute Location



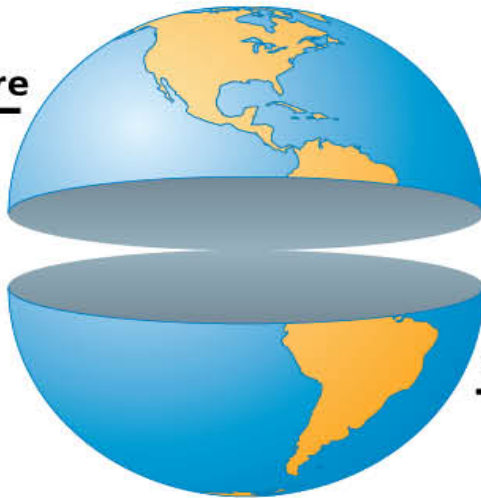
- **Degrees (°)**
- **Minutes (')**
- **Seconds (")**
- give an exact spot on the Earth

<http://www.navfltsm.addr.com/globe.jpg>

North & South Hemispheres

- ◉ Equator circles the middle of the Earth
- ◉ It divides the earth into **hemispheres**
- ◉ North of the equator is the **Northern Hemisphere.**
- ◉ South of the equator is the **Southern Hemisphere.**

Northern Hemisphere



Southern Hemisphere



Northern Hemisphere

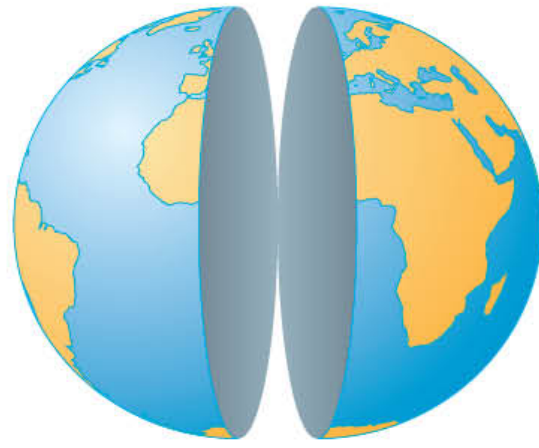
Southern Hemisphere

East & West Hemispheres

- ◉ Prime Meridian runs from north to south.
- ◉ Divides the earth into **half spheres** in the other direction.
- ◉ East of the Prime Meridian to 180 degrees is the **Eastern Hemisphere**.
- ◉ West of the Prime Meridian to 180 degrees is the **Western Hemisphere**.

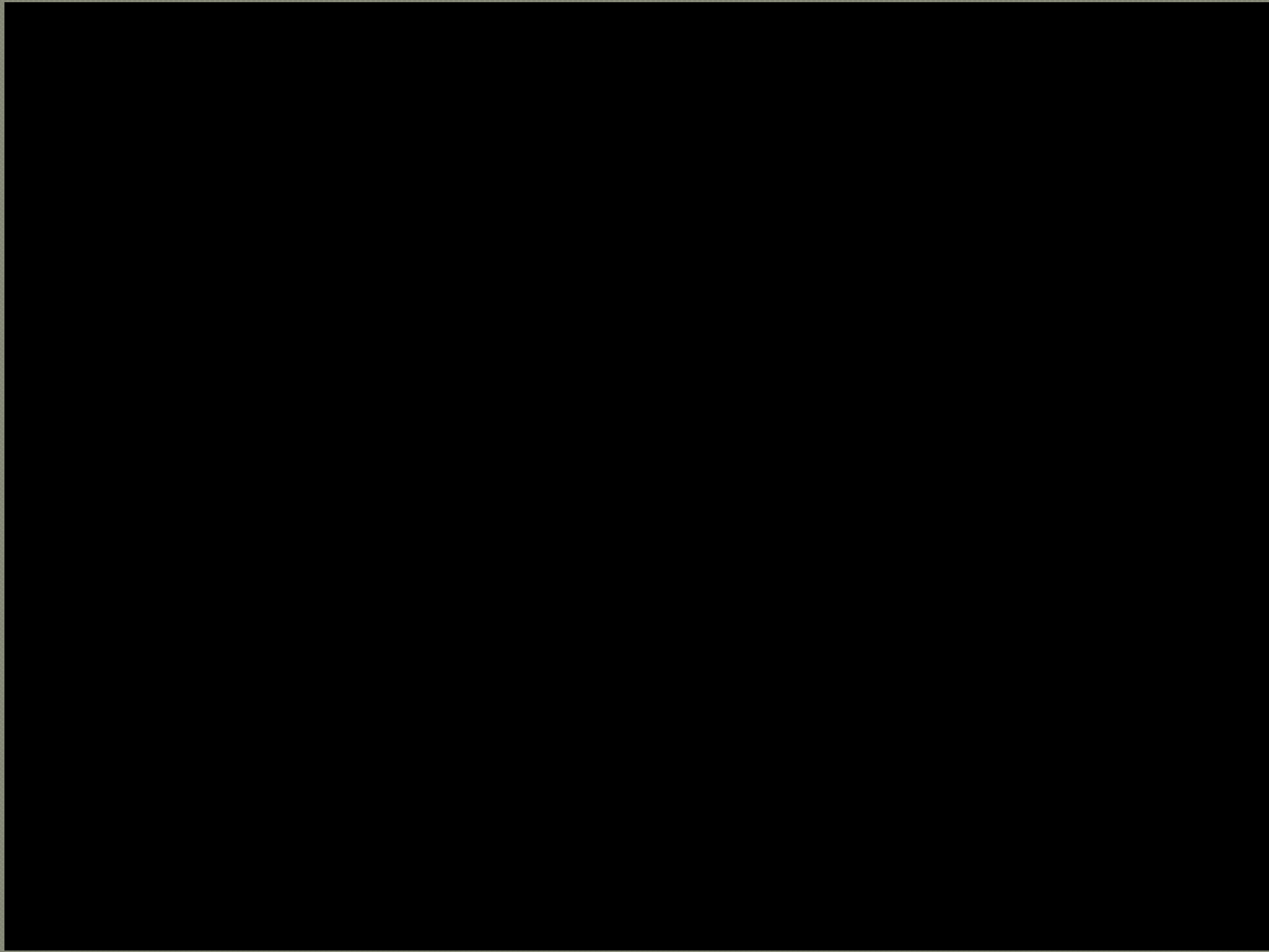
Western Hemisphere

Eastern Hemisphere



Western Hemisphere

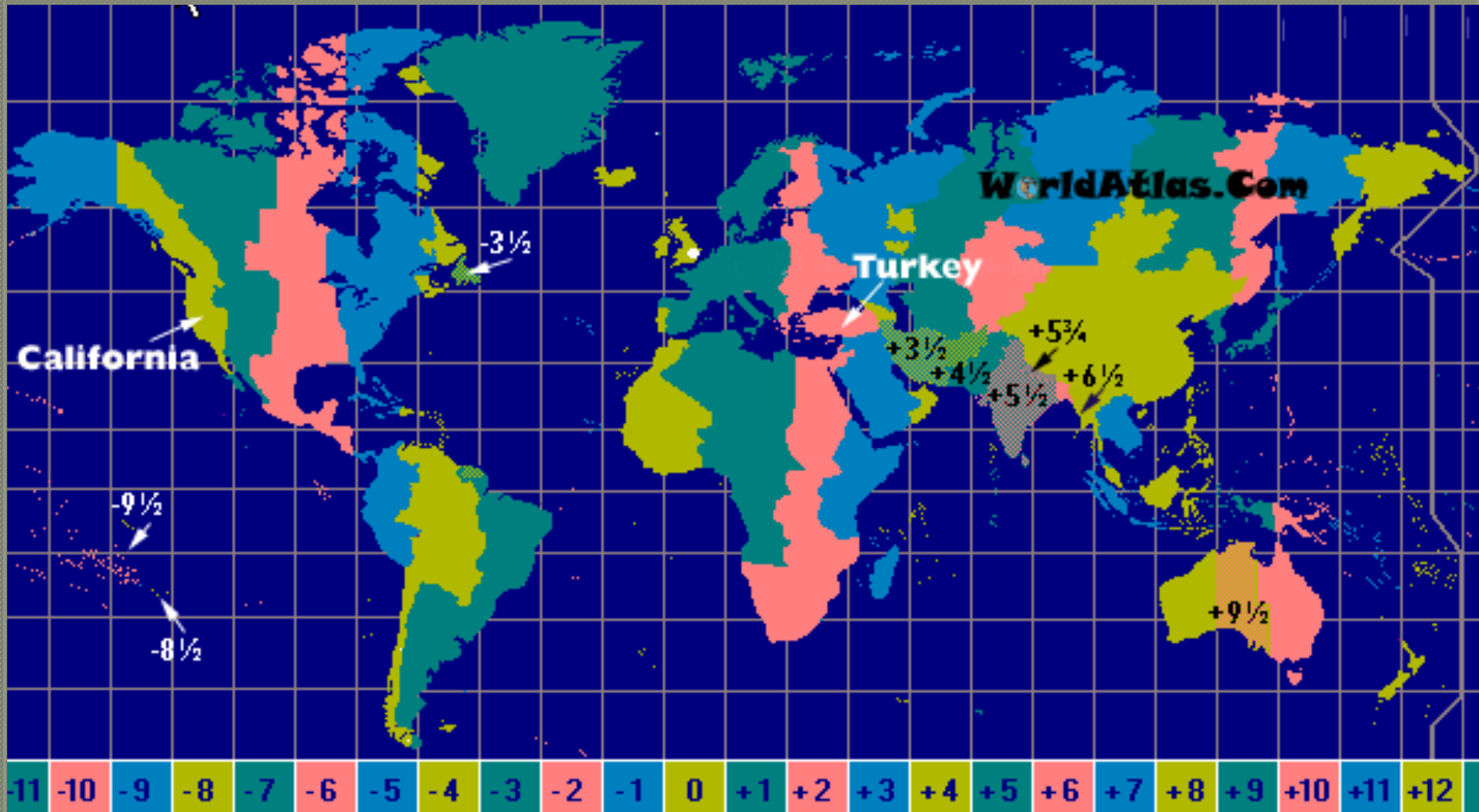
Eastern Hemisphere



Time Zones

- 24 Standard Time zones
- Created by Canadian engineer, Sir Sanford Fleming
- Worked for the Canadian Pacific Railway
- Needed standardized time system

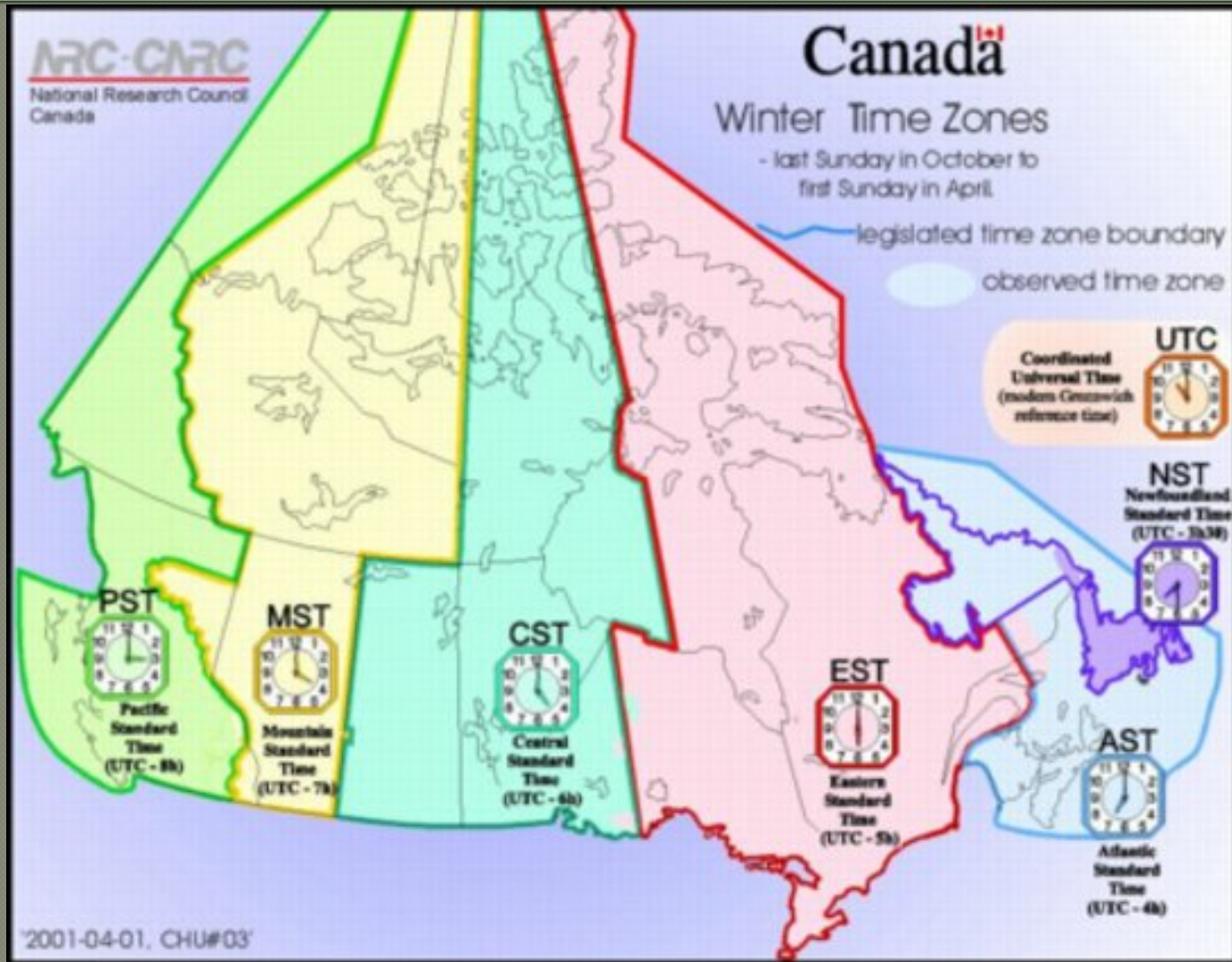
Time Zones



Time Zones

- 24 Standard Time zones
- Each time zone approximately 15° longitude
- 24, one for each hour of the day
- Run west and from Prime Meridian = 0° longitude
- Meet at International Date Line = 180° line of longitude
- Easier scheduling of...
 - trains
 - telegraphs
 - telephones
 - radio

Canadian Time Zones



Review

THE END