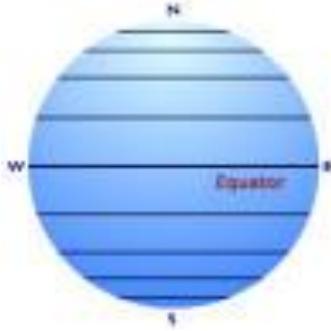


# Latitude and Longitude

## How do we find places on maps?



María Sanz

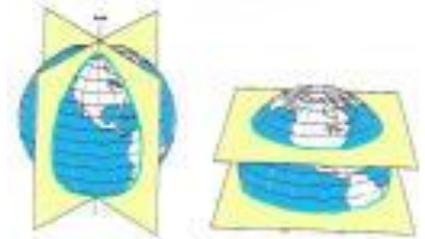


# Latitude



## *What is Latitude?*

- Lines of Latitude run **horizontally**
- Latitude is measured in degrees.
- The **Equator** is 0 degrees Latitude.
- Lines of Latitude locate places **North** or **South** of the Equator.
- The North Pole is 90 degrees N Latitude, and the South Pole is 90 degrees S Latitude.





# Longitude



- Lines of Longitude run *vertically*.
- They are also called *Meridians*.
- The *Prime Meridian* is found in Greenwich, England.
- The Prime Meridian is 0 degrees Longitude.
- Lines of Longitude locate places *East* or *West* of the Prime Meridian.
- There are 180 degrees of east Longitude, and 180 degrees of west Longitude.



# Time Zones

## *Local Time and Universal Time*

**Local Time**- is what we use everyday, and regulates our lives.

Examples of Local Time are: meal time, sleep time, work time, and school time

**Universal Time**- is what we use when we need a time that is agreed upon marking time world-wide.

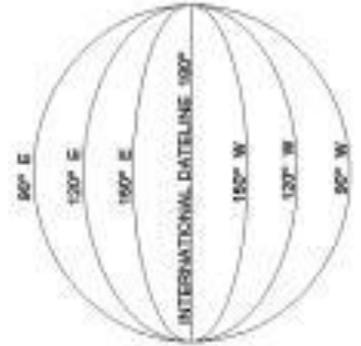
An example when Universal Time was used was when a supernova in 1987 was first seen. Astronomers, and Astronauts use Universal Time..

# Time Zones (cont....)

- **Greenwich Mean Time**- is the time that is registered at Greenwich, England.

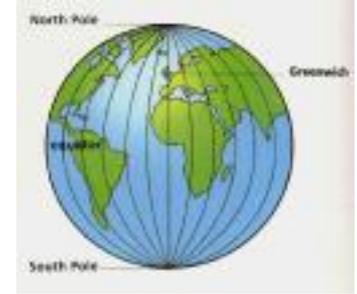
**\*\*Greenwich Mean Time is another name for Universal Time.**

The **International Dateline** was established following the 180th meridian, where ever we cross it the date advances 1 day ( if you are going west), or goes back 1 day (if you are going east).





# Summary



**1. What do lines of Latitude and Longitude combine to make?**

A grid.

**2. Compare and Contrast Latitude and Longitude.**

Latitude- horizontal, north- south, parallels

Longitude- vertical, east-west, meridians

**3. What is 0 degrees Latitude?**

Equator

**4. What is 0 degrees Longitude?**

Prime Meridian

**5. Explain the difference between Local Time, and Universal Time.**

**Local time**- used everyday

**Universal Time**- is used for a planetary event, or for astronomy