

Earth Science

With

Mr. Thomas



World Time

► Modeling of our Planet:

- The Earth is mapped using latitude and longitude coordinates.

Latitude =

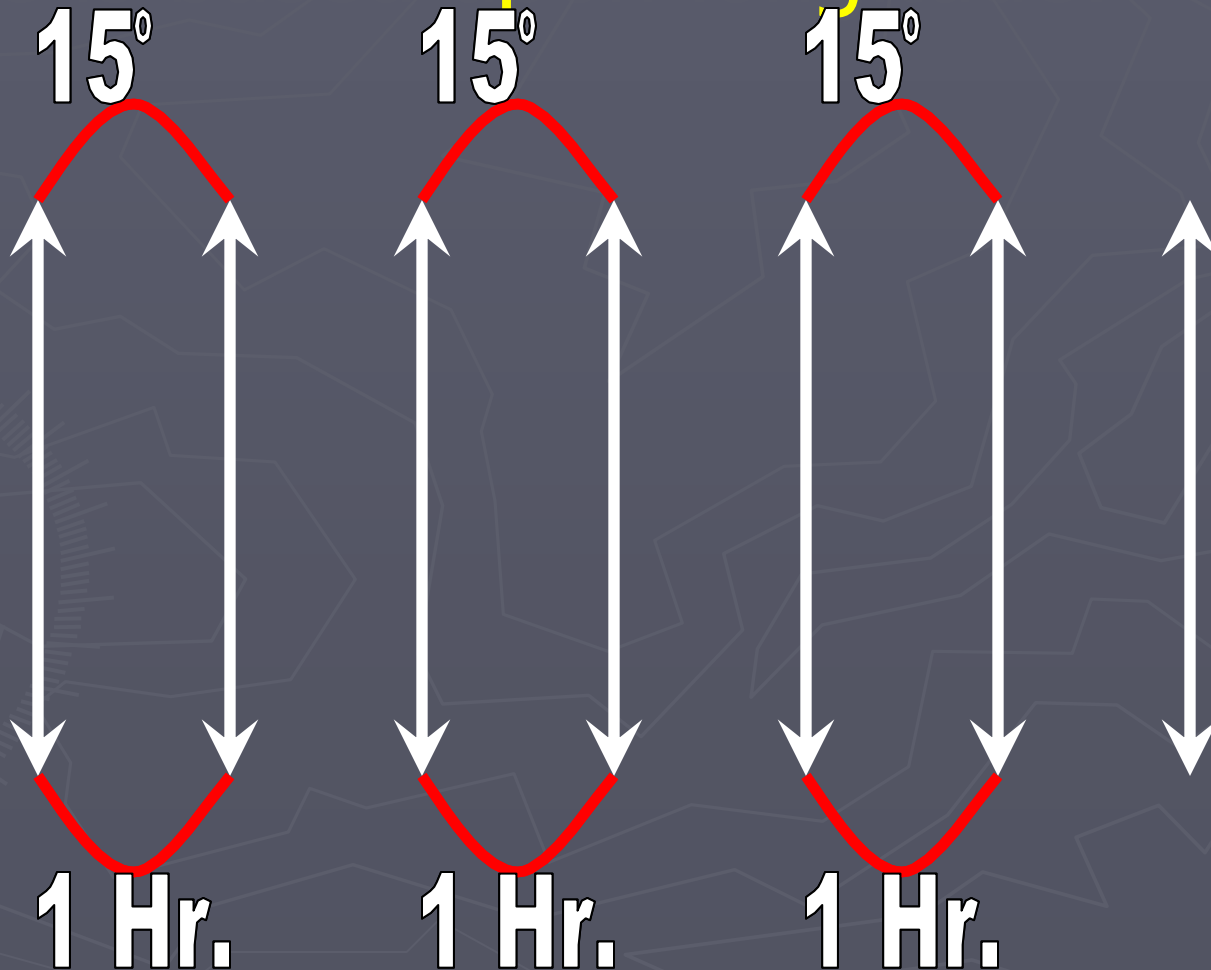


Longitude =

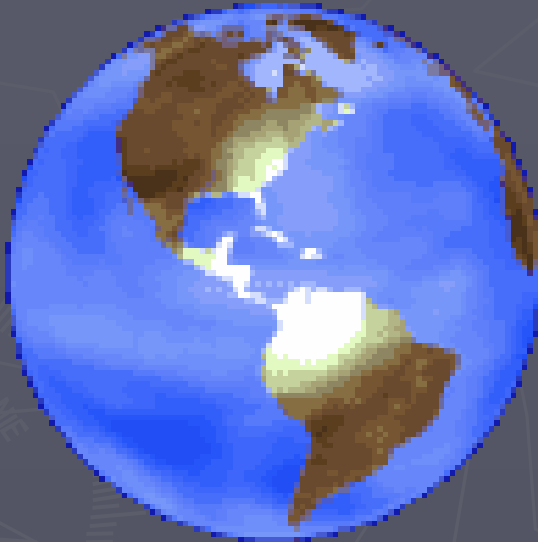


World Time

- Time is based upon longitude:

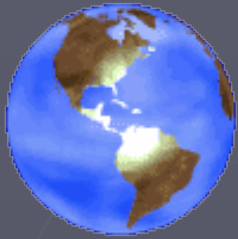


Why 15° per hour??



➤ The earth rotates at a rate of 15° per hour!!

Let's do the Math!



Constants: 24 hours in a day
360° in a circle

$$\frac{360^{\circ}}{24 \text{ hrs.}} = 15^{\circ} / \text{Hr.}$$

- Longitude begins at Greenwich England:

Prime Meridian



That's it