



**Figure 3** – latitude and longitude grid to use for your observations. Each line is  $10^\circ$  apart from its neighbor

- f) How would you determine the sidereal period of the Sun? Determine the sidereal period of the Sun. How far from the known sidereal period at that latitude is your answer?

The sidereal period of the Sun ranges from 24.97 days at the equator to 27.75 days at a latitude of  $40^\circ$ .