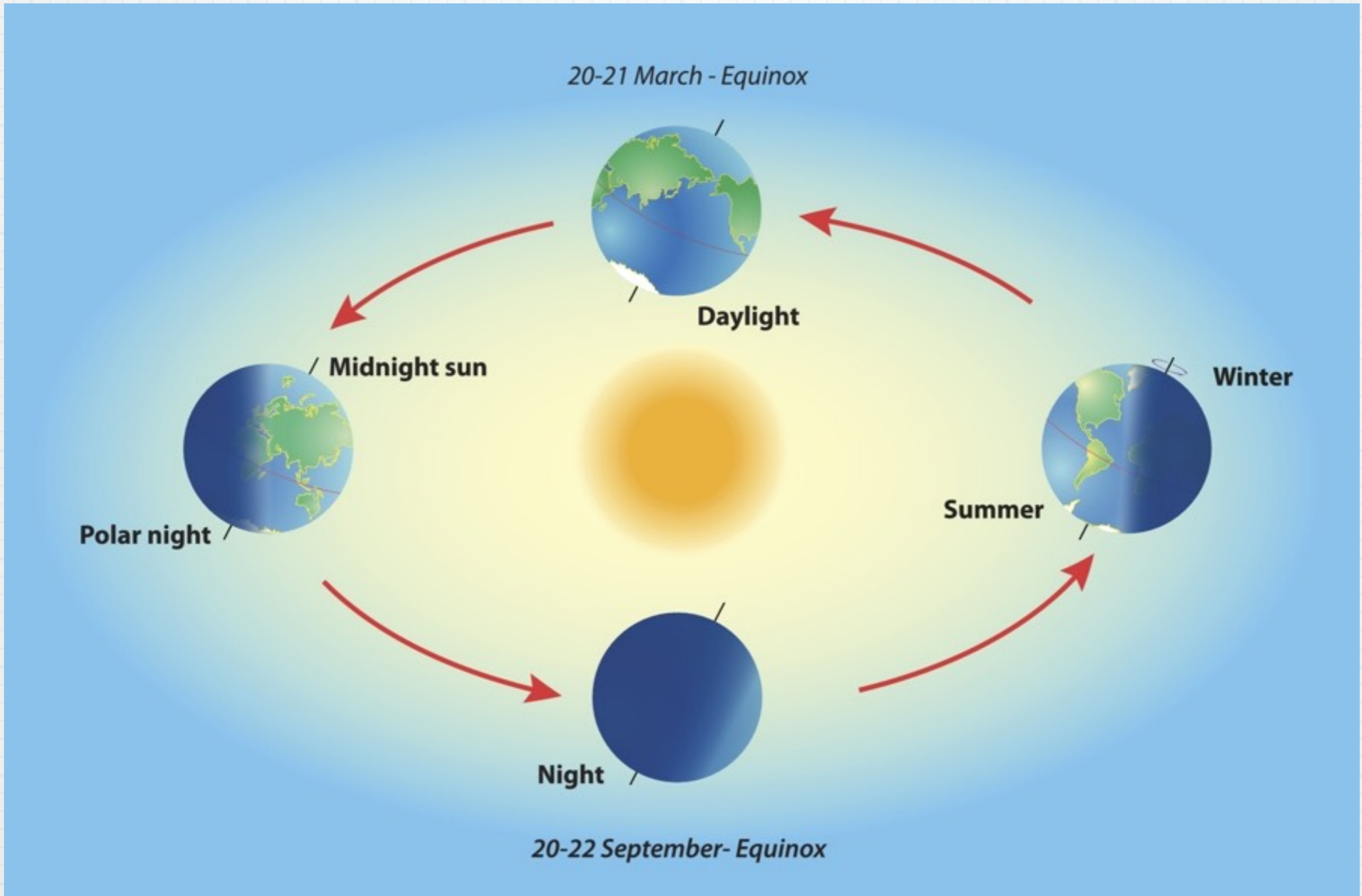


Motion of the Planets

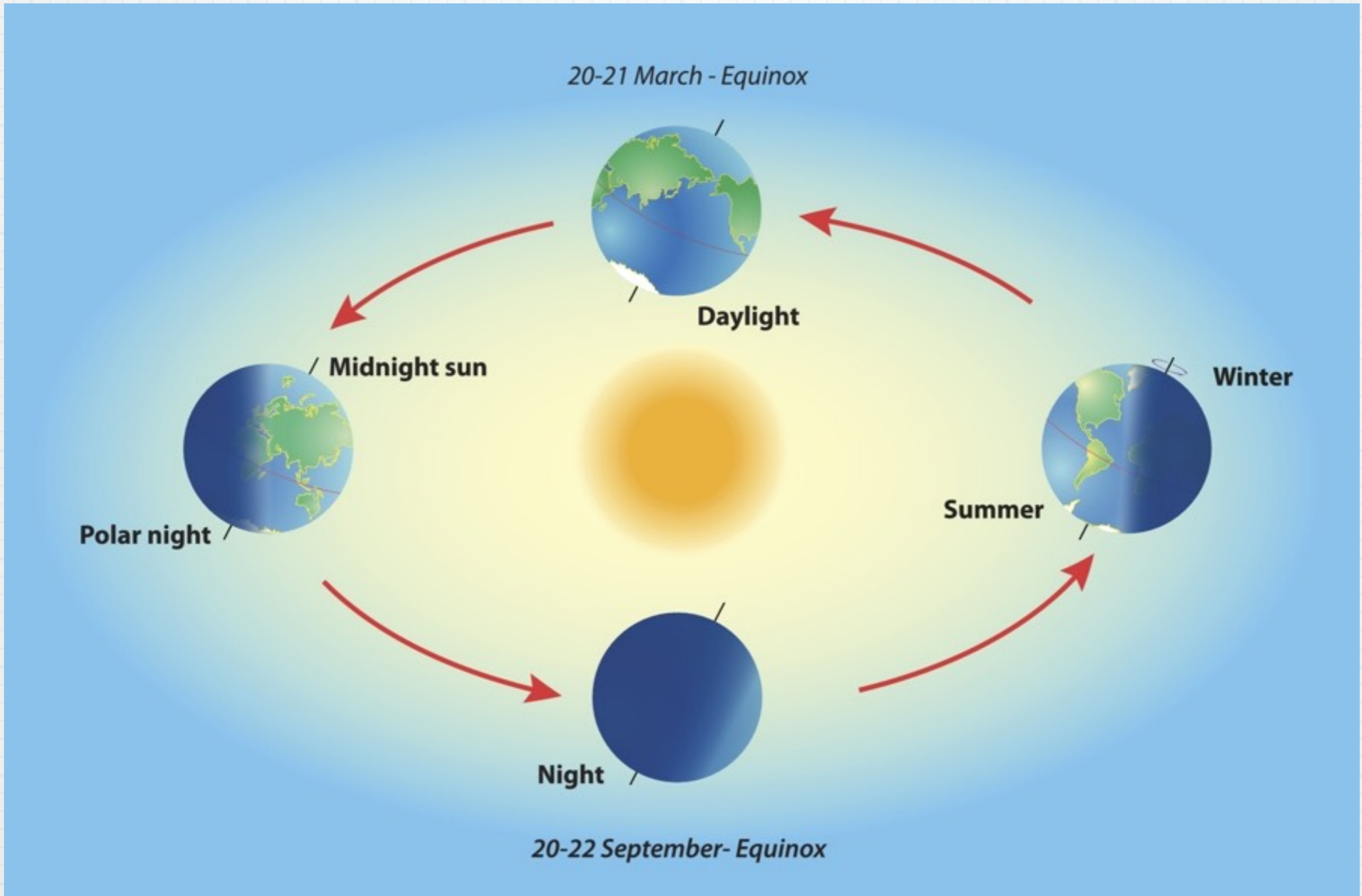
Rotation

- * One complete spin of the Earth on its axis.



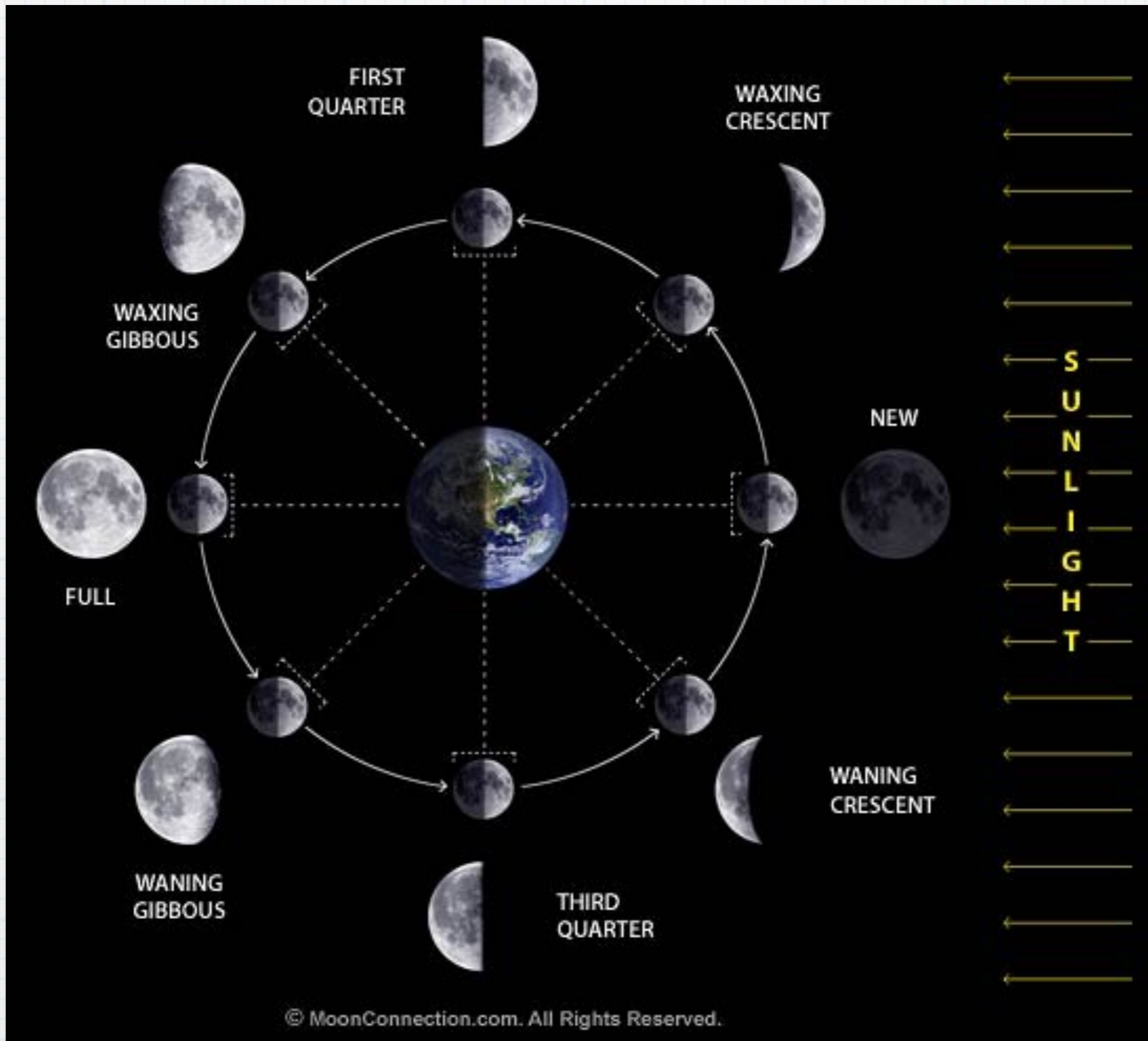
Revolution

- * One complete orbit of the Earth around the Sun, journey of one year.



Equinox

- * Time of year when day and night are approximately equal.



Solar Eclipse

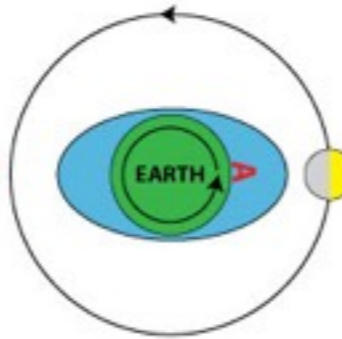
- * Moon blocks the Sun's light to Earth. The moon lies directly between the Earth and the Sun.

Lunar Eclipse

- * Earth blocks the Sun's light shining on the Moon. The Earth lies between the Moon and the Sun.

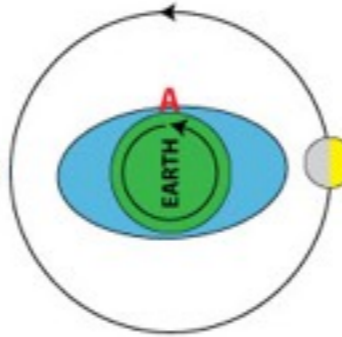
TIDES OVER A 24 HOUR CYCLE

0 hours

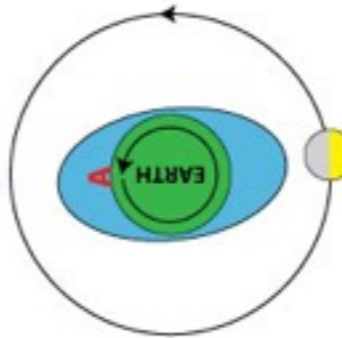


The Earth takes 24 hours to rotate so an observer at point A would see the tide go from High Water to Low Water, back to High Water back to Low Water and back to High Water.

6 hours

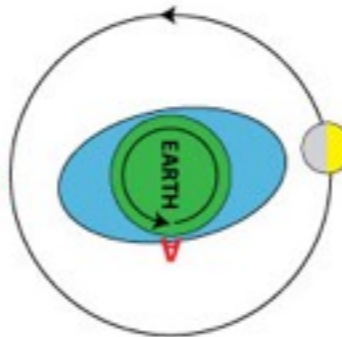


12 hours

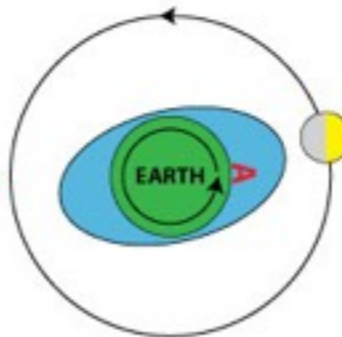


The interval between one High Water and the next is about 12 hours 25 minutes. The extra 25 minutes is due to the movement of the moon.

18 hours



24 hours



So the time of High Water is about 50 minutes later each day.

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