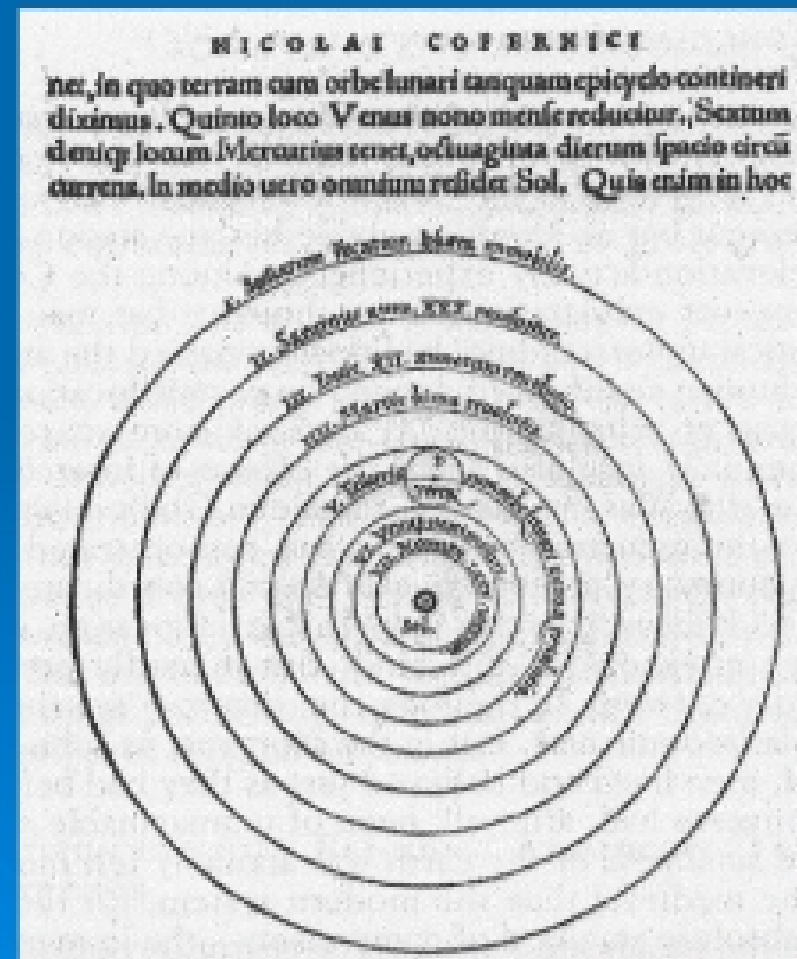


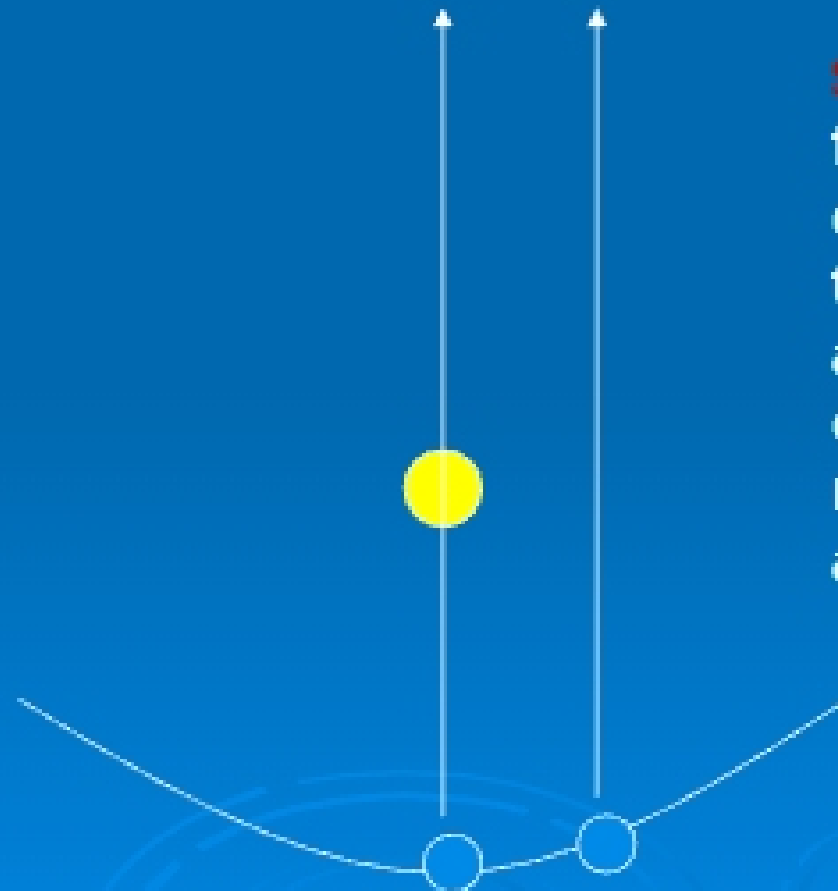
# The “New” Astronomy

Nicholas Copernicus (1473 - 1543) Accounted for problems with calendar by introducing (re-introducing) the heliocentric model of the universe.



# The “New” Astronomy

Fixed Star Background



**Sidereal Day** – Time it takes for the stars to return to directly overhead at a given time. Because the stars are so far away, this time corresponds to one rotation of the earth on its axis.

# The “New” Astronomy

## Fixed Star Background

**Solar Day** – Time it takes for the sun to return to directly overhead. Because the sun is not so far away as compared to the stars, the earth must rotate a bit farther to get the sun directly overhead.

**Sidereal Day** – Time it takes for the stars to return to directly overhead at a given time. Because the stars are so far away, this time corresponds to one rotation of the earth on its axis.

