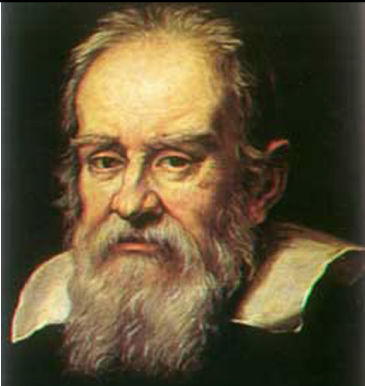


Oct 20-8:30 AM

Galileo Galilei

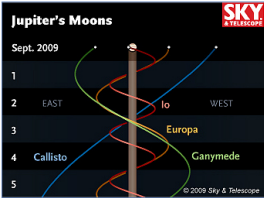
Born- 15 February 1564
Died- 8 January 1642



Italian physicist, mathematician, astronomer, and philosopher who played a major role in the Scientific Revolution. His achievements include improvements to the telescope and consequent astronomical observations, and support for Copernicanism. Galileo has been called the "father of modern observational astronomy," the "father of modern physics," and the "father of science."

Oct 20-8:11 AM

- Made a telescope with about 3x magnification
- Made other telescopes with up to about 30x magnification
- 7 January 1610 Galileo observed with his telescope what he described at the time as "three fixed stars, totally invisible by their smallness,"
- Observations on subsequent nights showed that the positions of these "stars" relative to Jupiter were changing in a way that would have been inexplicable if they had really been fixed stars.
- On 10 January Galileo noted that one of them had disappeared, an observation which he attributed to its being hidden behind Jupiter.



Oct 20-8:19 AM

- From September 1610, Galileo observed that Venus exhibited a full set of phases similar to that of the Moon. The heliocentric model of the solar system developed by Nicolaus Copernicus predicted that all phases would be visible since the orbit of Venus around the Sun would cause its illuminated hemisphere to face the Earth when it was on the opposite side of the Sun and to face away from the Earth when it was on the Earth-side of the Sun
- Galileo also observed the planet Saturn
- Galileo was one of the first Europeans to observe sunspots,
- Galileo was the first to report lunar mountains and craters, whose existence he deduced from the patterns of light and shadow on the Moon's surface. He even estimated the mountains' heights from these observations
- Galileo observed the Milky Way, previously believed to be nebulous, and found it to be a multitude of stars packed so densely that they appeared to be clouds from Earth

Oct 20-9:26 AM



Oct 22-8:42 AM