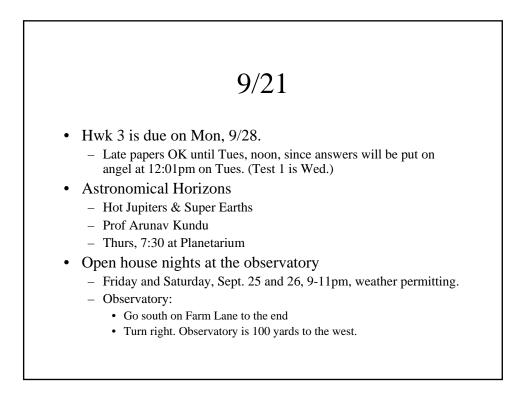
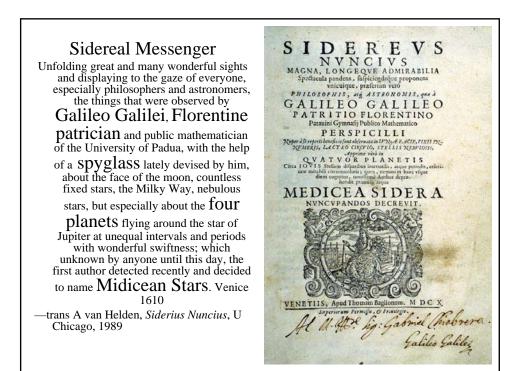
Galileo & the Telescope—Sept 21 Galileo makes a telescope in 1609 • Galileo discovers - Moons of Jupiter - Mountains on the moon - New stars - Milky Way has many stars - Phases of Venus · Disproves Ptolemy's earthcentered model A model of discovery enabled by a new instrument - What cannot be seen cannot be discovered Many discoveries were made soon after a new technology or instrument was built. Galileo by Tintoretto

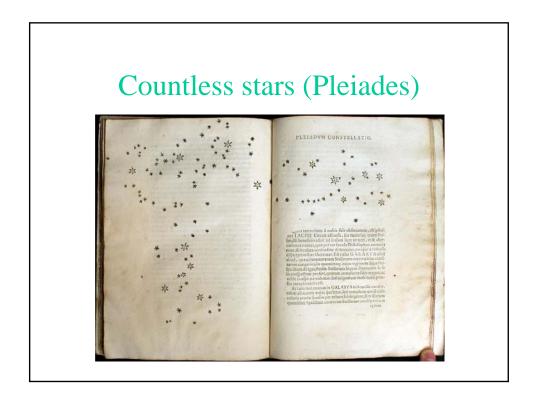
http://galileo.rice.edu/images/people/galileo/g_tintoretto.gif

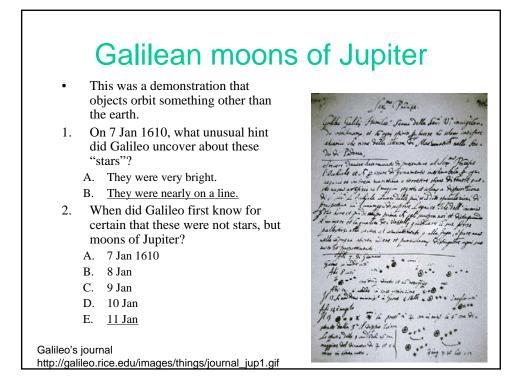












- How does the evidence disprove that they are stars?
- Assume the three objects seen near Jupiter on 7 Jan 1610 were real stars. Draw what Galileo would have seen on Jan 8th.
- 3. Spacing between the stars is as on the 7th.
 - A. the same
 - B. different
- 4. Distance from easternmost star to Jupiter is ____.
 - A. precisely the same
 - B. different.

Phases of Venus

- 4. When Venus is very, very close to the sun in the sky (for example when Venus sets very shortly after the sun sets), what phases are possible?
 - A. Crescent only
 - B. Nearly full only
 - C. Crescent and nearly full
- 5. When Venus is very, very close to the sun in the sky (for example when Venus sets very shortly after the sun sets), what phases are possible according to Ptolemy's model?
 - A. Crescent only
 - B. Nearly full only
 - C. Crescent and nearly full

