Solar eclipses and hunting for planets

Dr. Paul Hancock Sydney Institute for Astronomy (SIfA)/ CAASTRO – The University of Sydney







- Types of eclipses
- What an eclipse looks like
- How to view an eclipse
- What eclipses can do for us
- More eclipses
- Planets outside our solar system

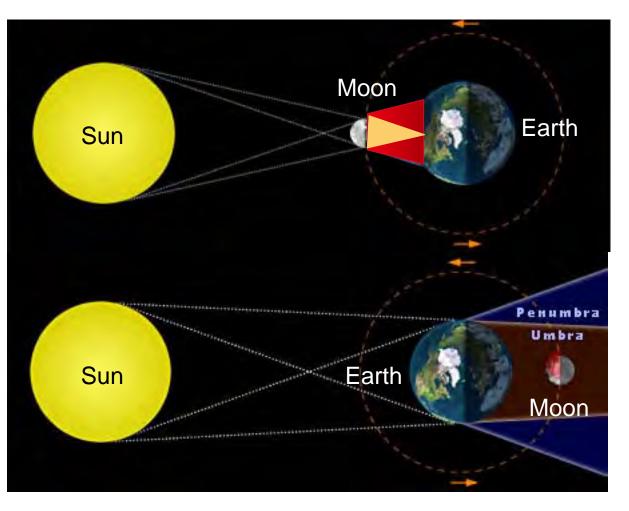


Types of Eclipses









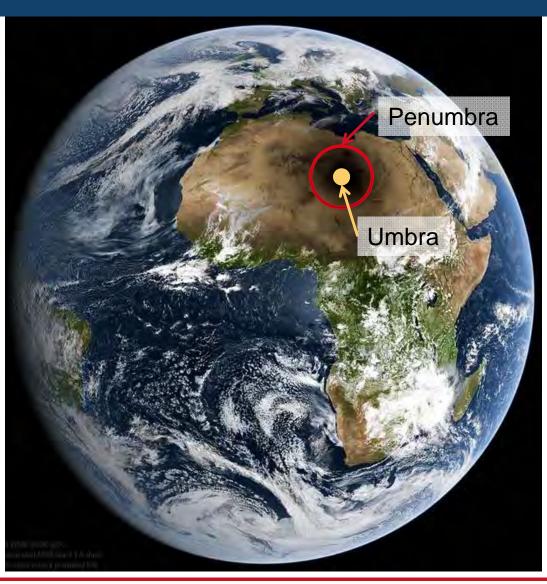
Solar Eclipse

Lunar Eclipse

www.MrEclipse.com



A solar eclipse seen from space





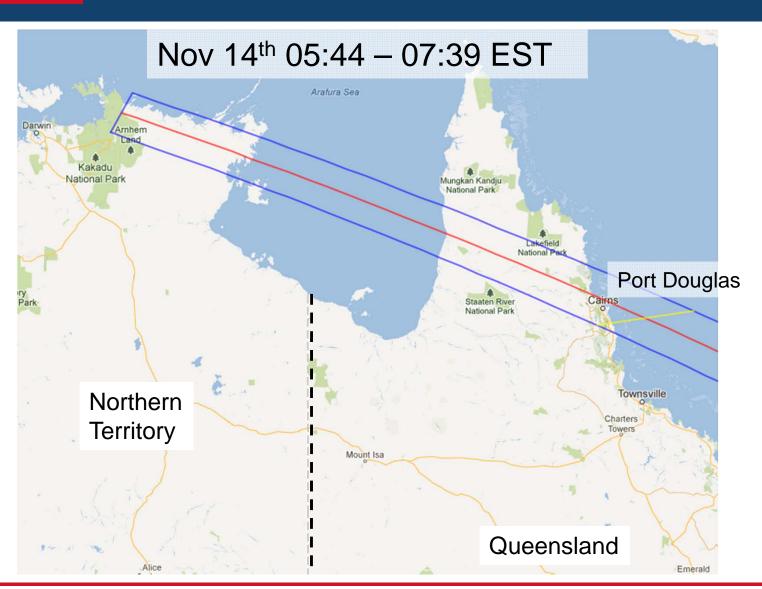
A solar eclipse seen from the Earth





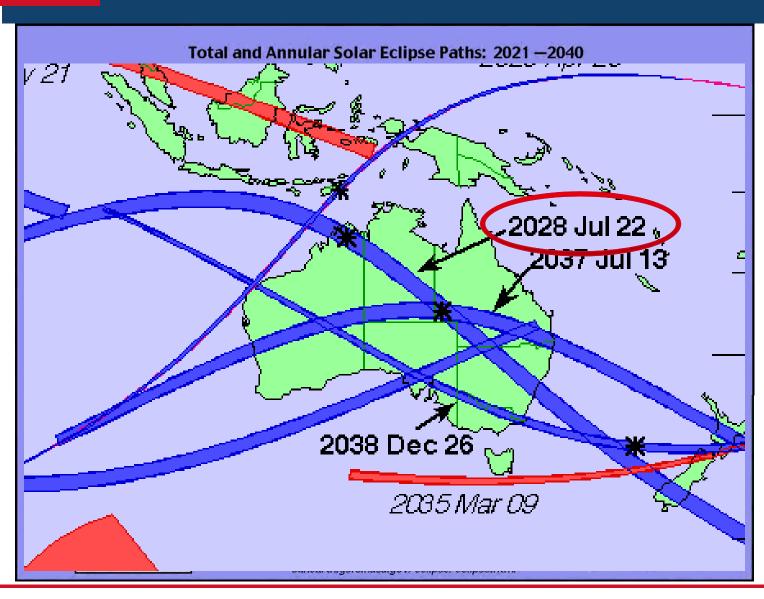


The next solar eclipse



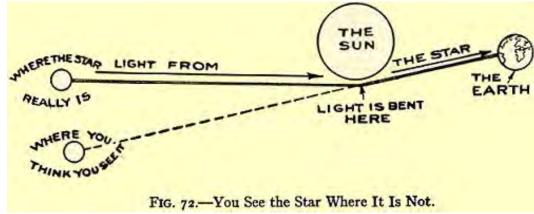


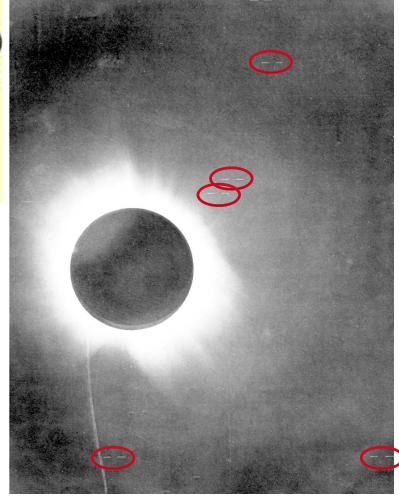
Future solar eclipses





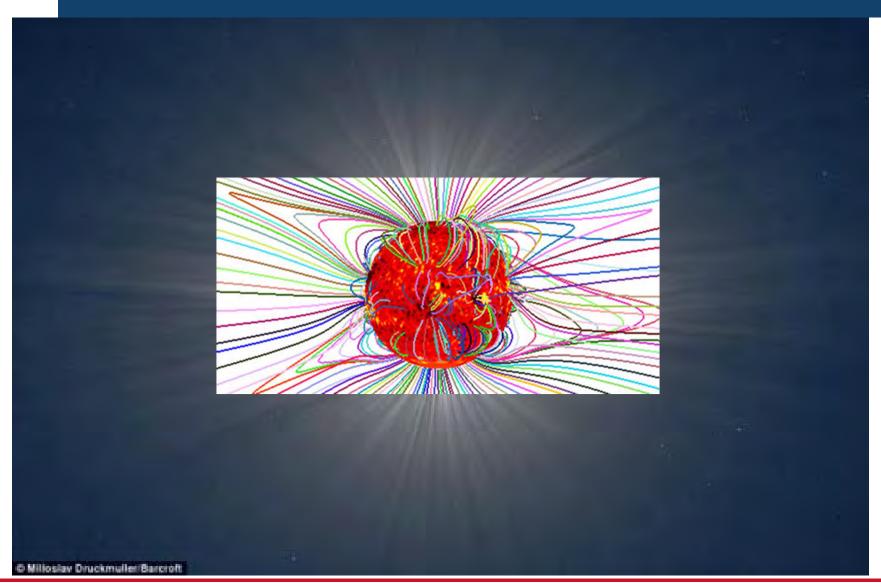
Testing relativity







Studying the Sun's corona





Scaring the un-learned





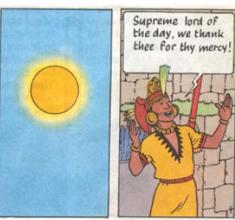






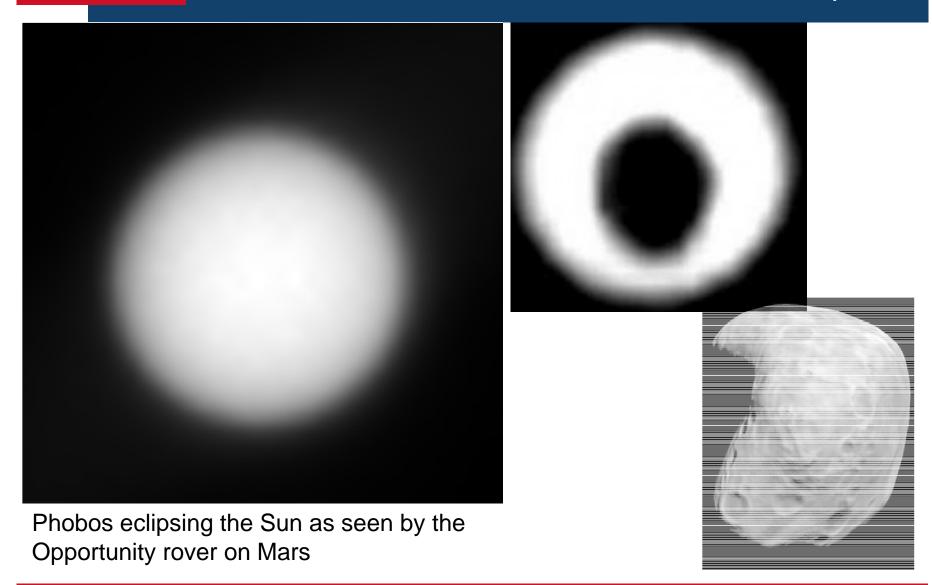








What about other kinds of eclipses?



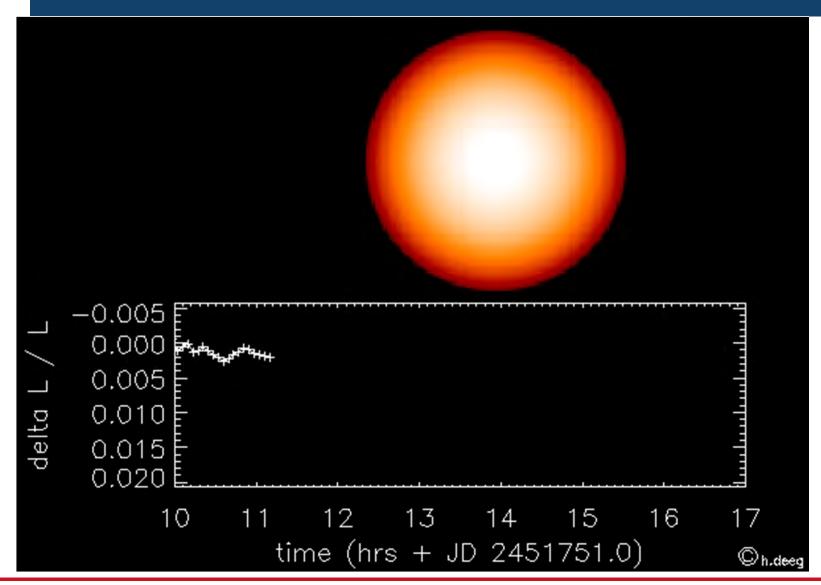


Planetary transits



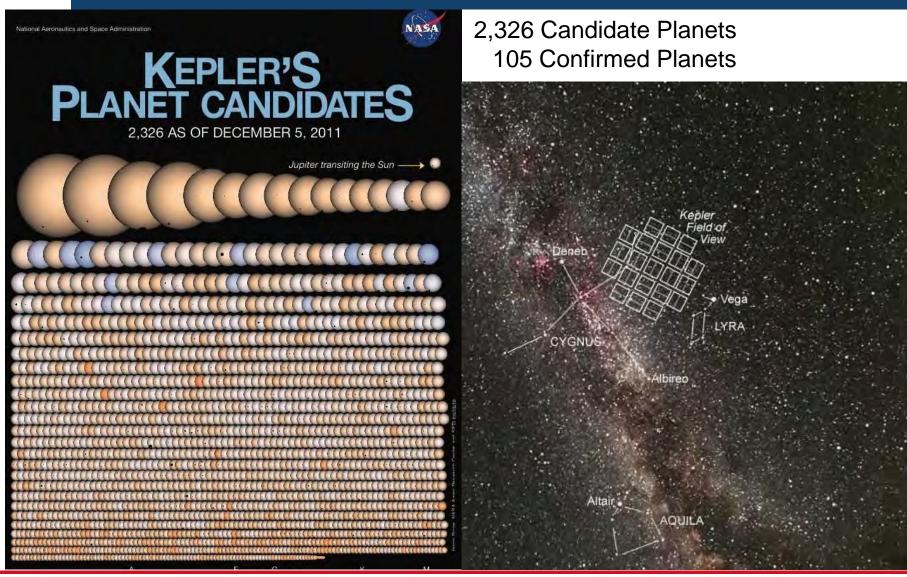


Extra solar planets





Using transits to find extra-solar planets







- Solar eclipses involve the Moon passing in front of the Sun
- There are solar eclipses on Mars!
- Transiting planets are like eclipses
- Transits allow us to detect planets around other stars