

June Jostlings - 2022

- Moon Shots - First qtr, June 7; Full Moon, June 14; Last qtr, June 20; New moon, June 28
 - Lunar standstill June 14
 - “Honey Moon” June 14
- Planetary extravaganza all month: all seven planets visible at dawn in their proper orbital order from the sun, relatively rare
 - Best view with Moon, June 24
- Comet search: C/2017 K2
- Summer solstice - June 21 - 0214 hrs
- Constellations: good views of Bootes, Libra, Lupus, Ursa Minor this month
 - DSOs in Libra, Lupus, Hercules

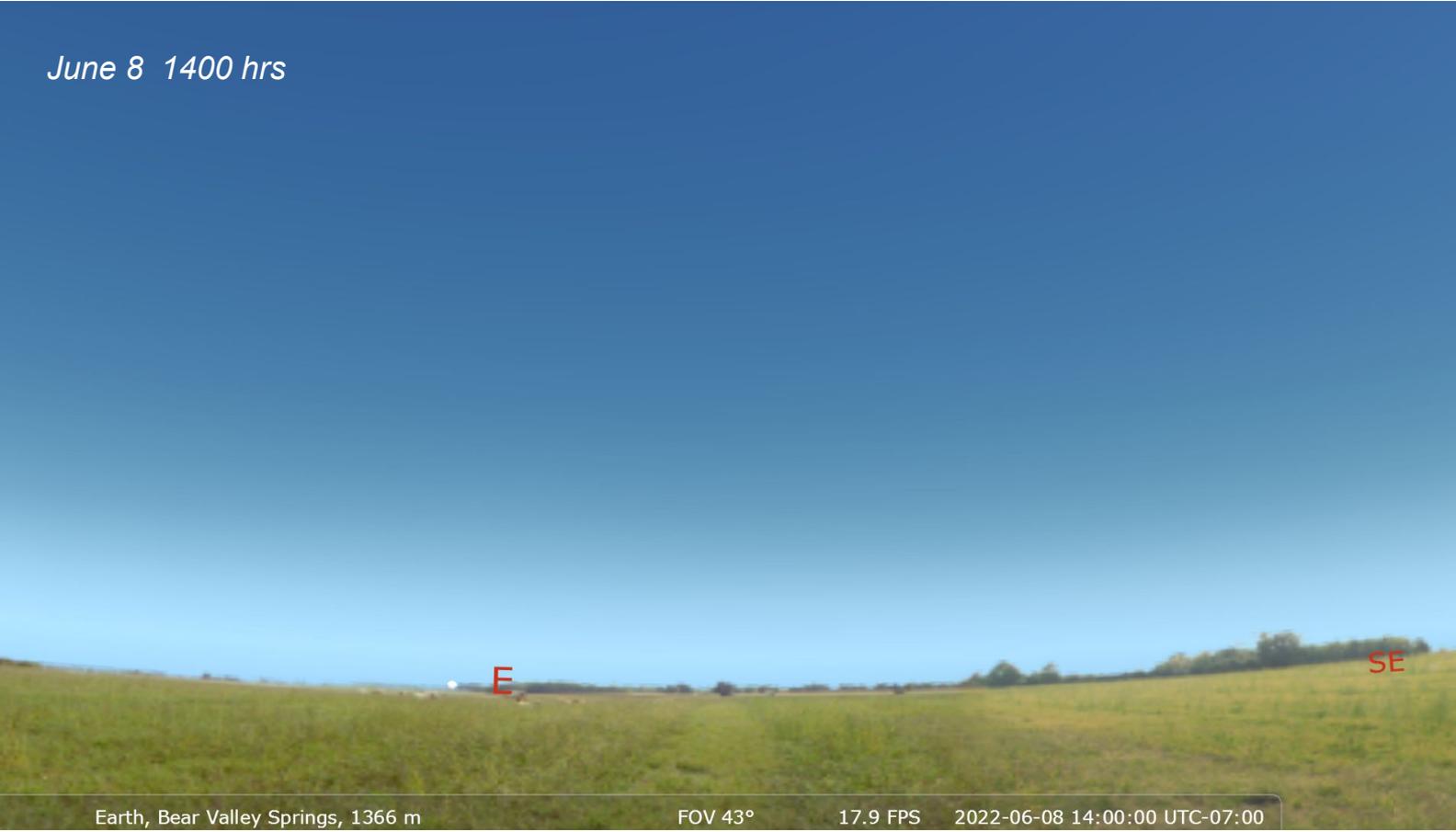
Moon Shots - “The Day the Moon Stood Still”

*June 7 1300 hrs
(quarter moon)*



Moon Shots - “The Day the Moon Stood Still”

June 8 1400 hrs



Earth, Bear Valley Springs, 1366 m

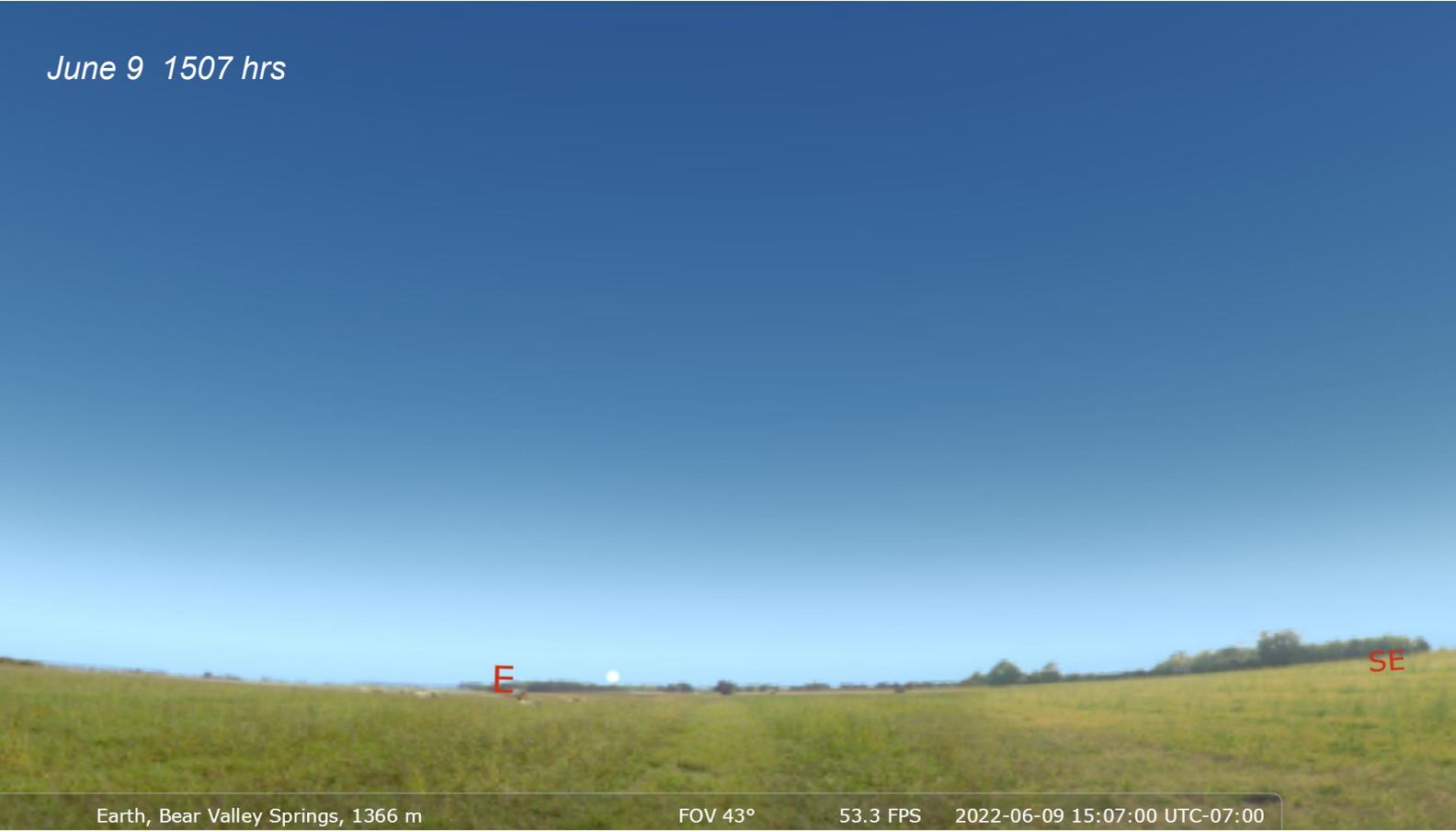
FOV 43°

17.9 FPS

2022-06-08 14:00:00 UTC-07:00

Moon Shots - “The Day the Moon Stood Still”

June 9 1507 hrs



Moon Shots - “The Day the Moon Stood Still”

June 10 1614 hrs



Moon Shots - “The Day the Moon Stood Still”

June 11 1725 hrs



Earth, Bear Valley Springs, 1366 m

FOV 43°

17.8 FPS

2022-06-11 17:25:00 UTC-07:00

Moon Shots - “The Day the Moon Stood Still”

June 12 1842 hrs



E

SE

Moon Shots - “The Day the Moon Stood Still”

June 13 1958 hrs



Moon Shots - “The Day the Moon Stood Still”

Next five Junes the Full Moon will be near the extreme SE rise point

June 14 (Full Moon) 2115 hrs



Moon Shots - “The Day the Moon Stood Still”

Ancient cultures marked extreme rise points with stone megaliths and circles

June 15 2220 hrs

E

SE

Moon Shots - “The Day the Moon Stood Still”

June 16 2309 hrs

E

SE

Moon Shots - “The Day the Moon Stood Still”

June 24 0243 hrs

Jupiter

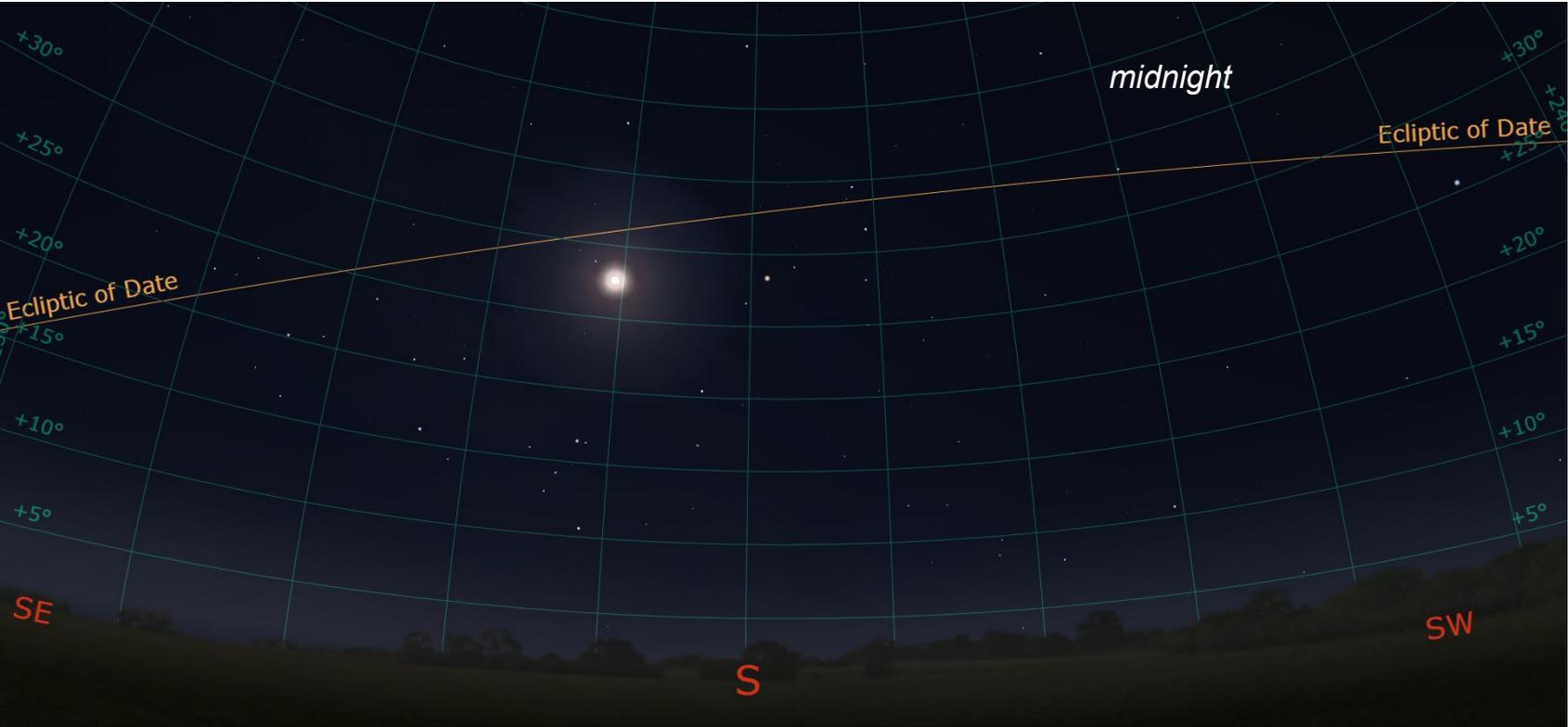
Mars

E

SE

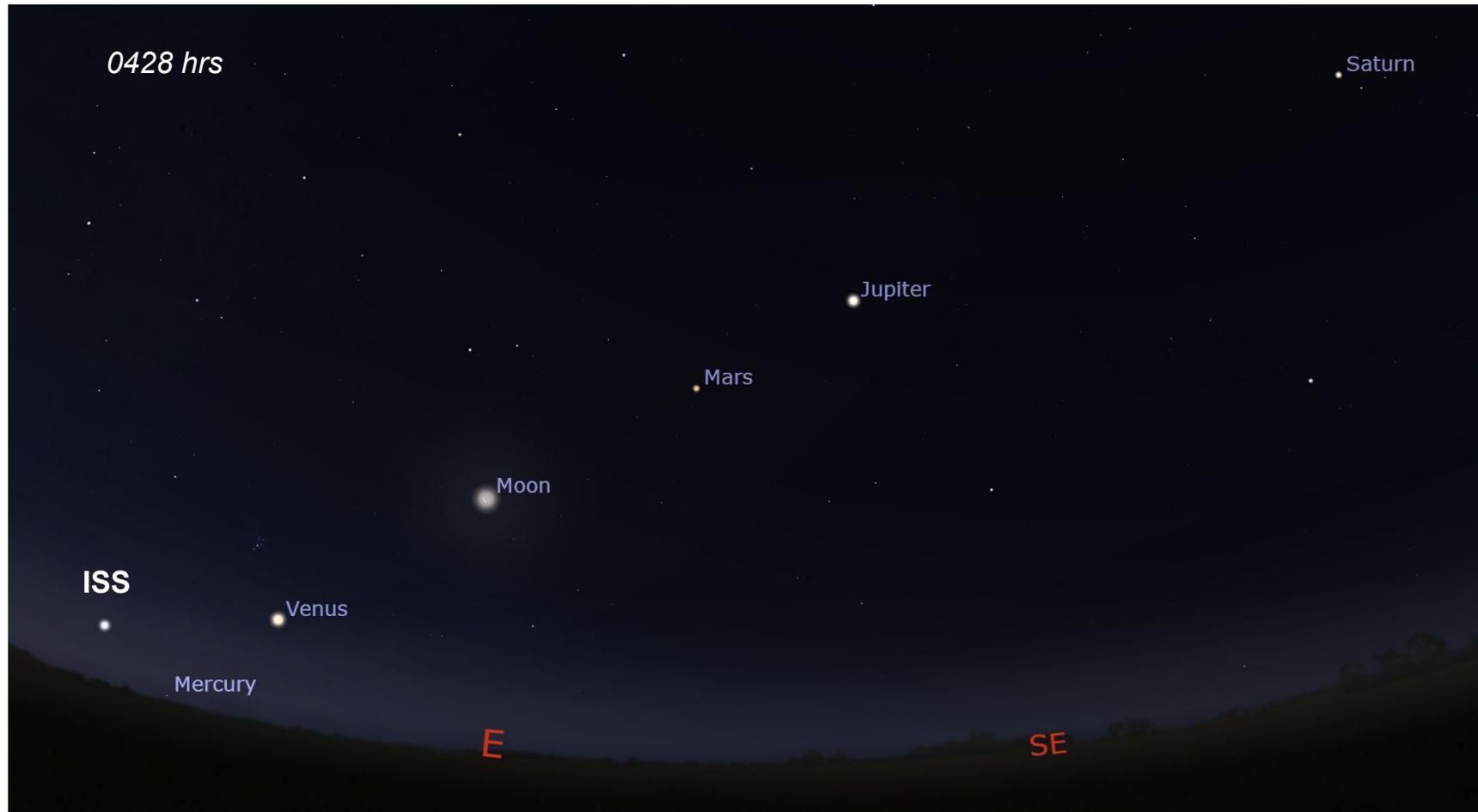
Moon Shots - "Honey Moon", June 14

Remains low throughout the night; its light rays take a longer slanted path through the atmosphere - blue light scattered, reflects more yellow hues



Dawn Planets - June 24

Uranus - 6 deg east of Moon Neptune - 11.5 deg west of Jupiter
visible with binoculars or small telescope



Earth, Bear Valley Springs, 1366 m

FOV 70.9°

17.9 FPS

2022-06-24 04:28:00 UTC-07:00

Dawn Planets

*“Planetary breakup” - apparent distance between planets increases during the month
Saturn reached stationary point June 5, begins retrograde loop, opposition in 2 months
Venus & Saturn will disappear from morning skies by September*

June 1 - 0400 hrs



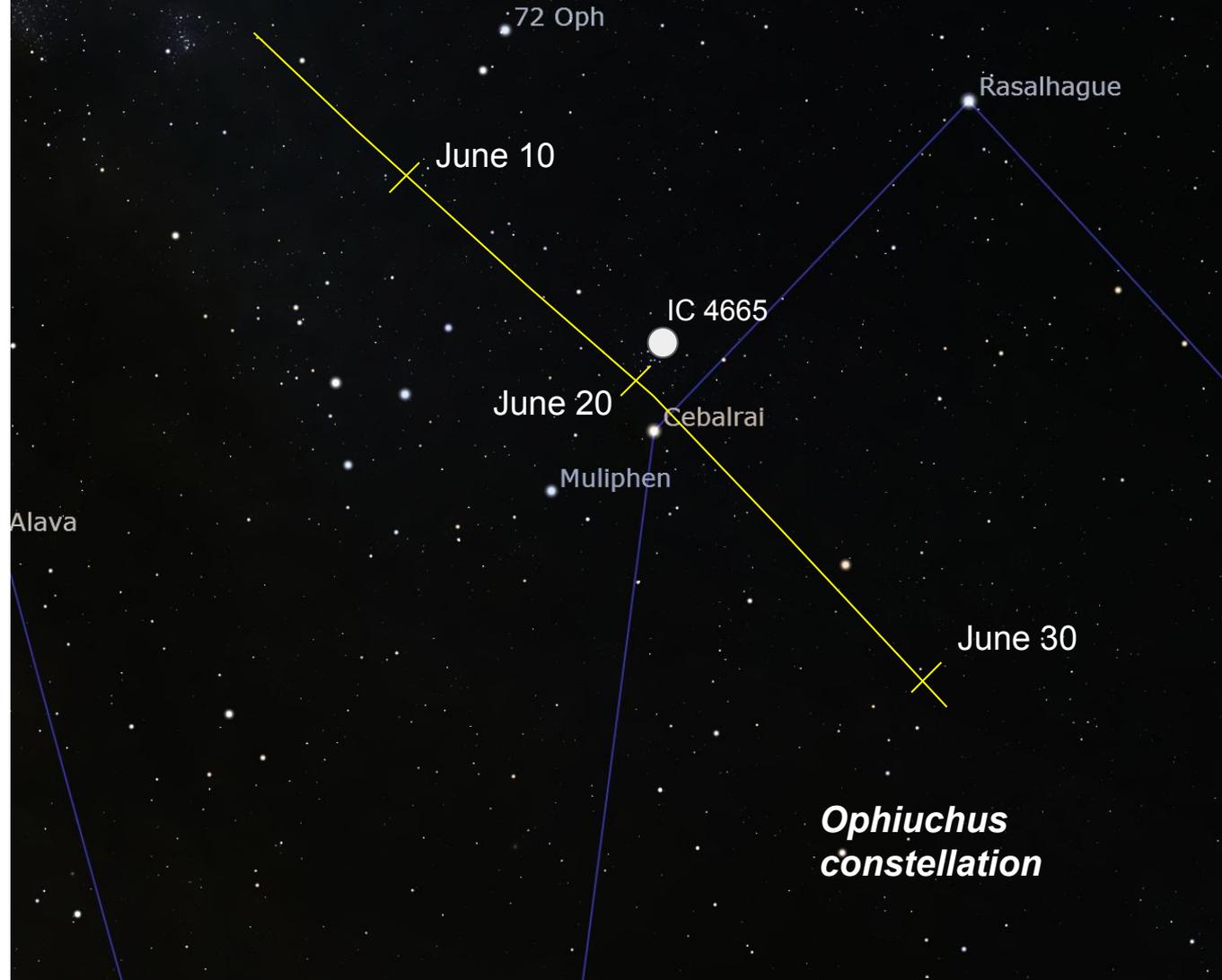
June 30 - 0400 hrs



Comet Search

C/2017 K2 (PanSTARRS)

- Nucleus 25 miles diameter
- 4x wider than Halley's Comet
- 4-6" telescope
- Good visibility on 6/20 before moon rises around midnite





Ring Nebula



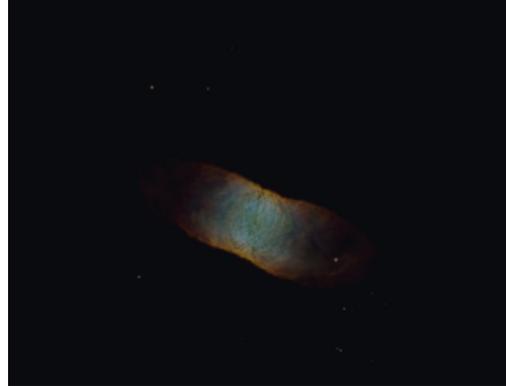
The Ring Nebula is a planetary nebula in the mildly northern constellation of Lyra. Such a nebula is formed when a star, during the last stages of its evolution before becoming a white dwarf, expels a vast luminous envelope of ionized gas into the surrounding interstellar space. [Wikipedia](#)

Distance to Earth: 2,283 light years

Radius: 1.3 light years

Age: 7,005 years

Magnitude: 8.8



IC 4406

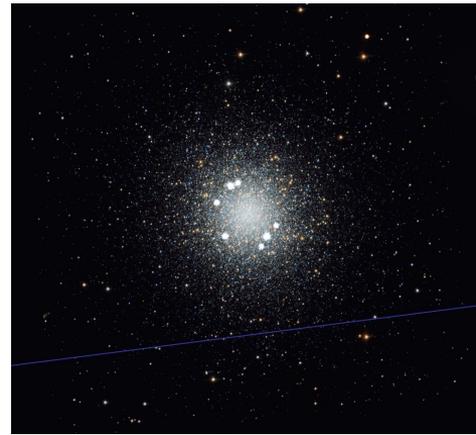
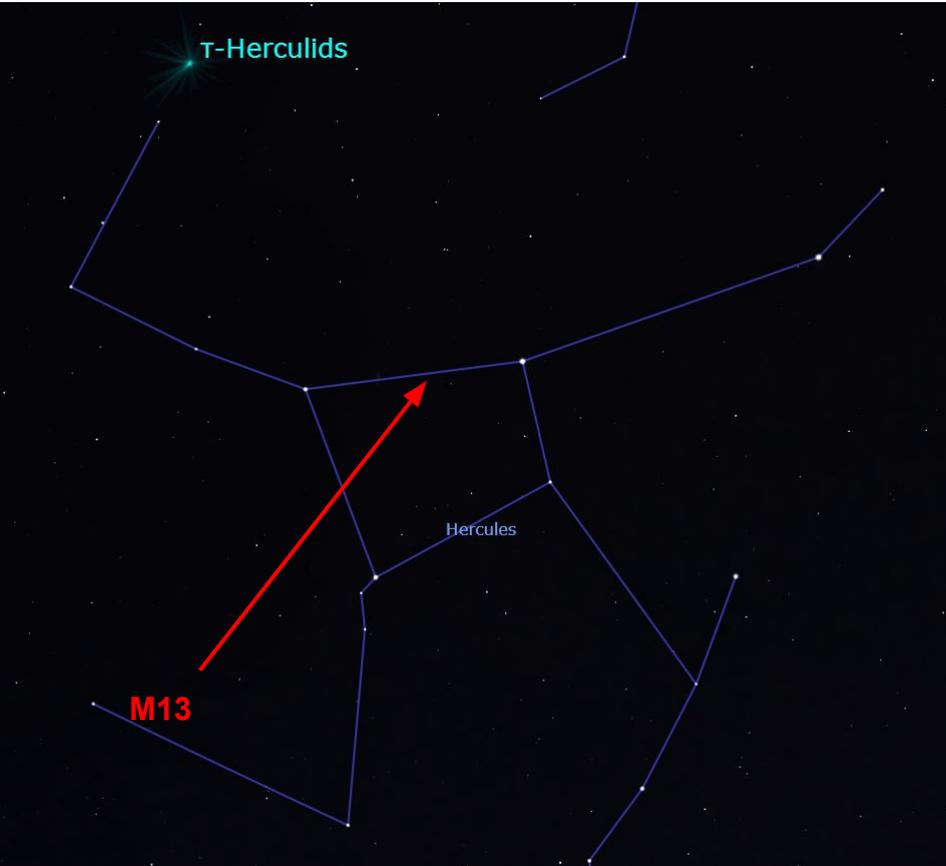


Nebula

IC 4406, sometimes known as the Retina Nebula, is a planetary nebula near the western border of the constellation Lupus, the Wolf. It has dust clouds and has the shape of a torus. Despite this, it looks somewhat rectangular because it is seen from its side as viewed from Earth, almost in the plane of its equator. [Wikipedia](#)

Constellation: Lupus

Apparent magnitude (V): 10.9



M13

binoculars as a hazy patch of light
12 billion years old
>100,000 stars

Messier 13



Messier 13 or M13, also designated NGC 6205 and sometimes called the Great Globular Cluster in Hercules or the Hercules Globular Cluster, is a globular cluster of several hundred thousand stars in the constellation of Hercules. [Wikipedia](#)

Distance to Earth: 22,180 light years