

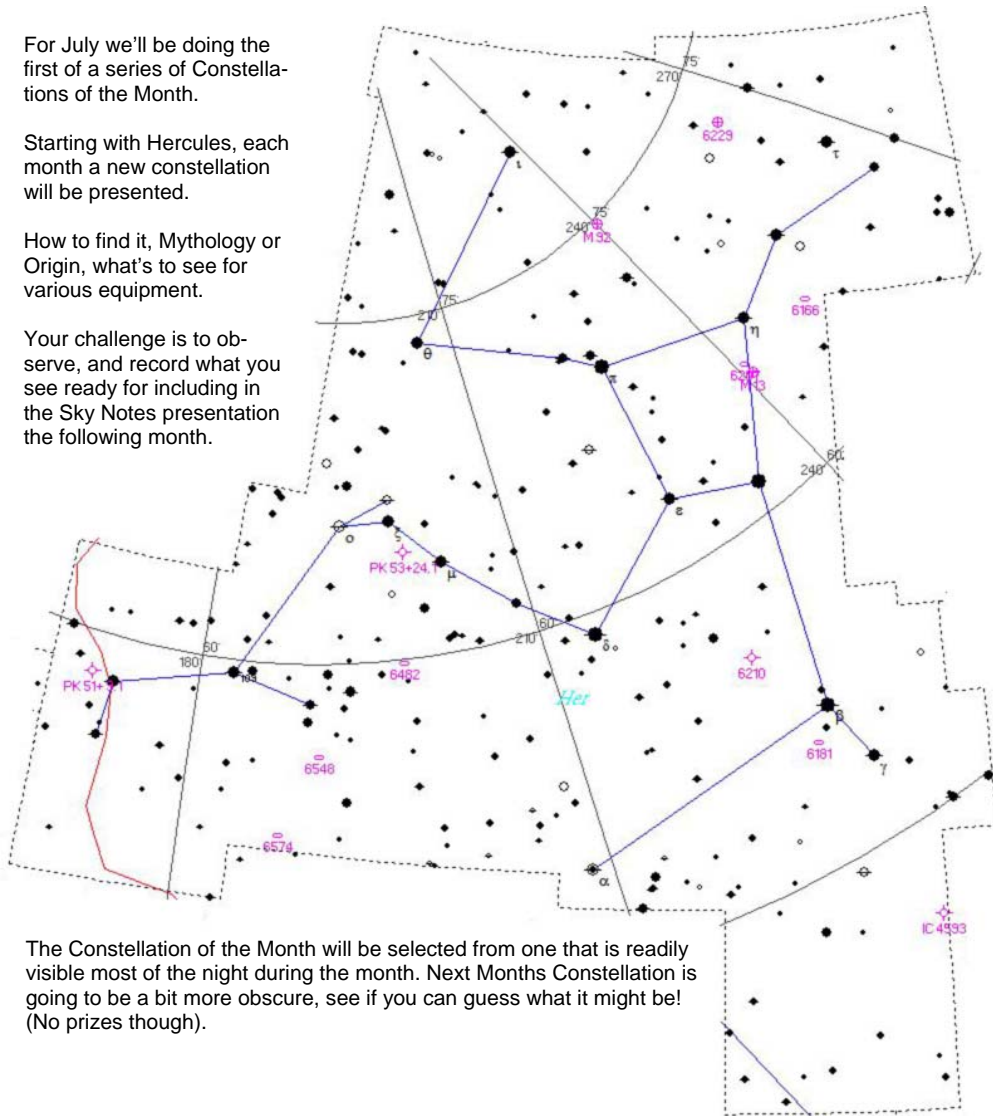
Constellation of the Month - Hercules

For July we'll be doing the first of a series of Constellations of the Month.

Starting with Hercules, each month a new constellation will be presented.

How to find it, Mythology or Origin, what's to see for various equipment.

Your challenge is to observe, and record what you see ready for including in the Sky Notes presentation the following month.



The Constellation of the Month will be selected from one that is readily visible most of the night during the month. Next Months Constellation is going to be a bit more obscure, see if you can guess what it might be! (No prizes though).

Rugby & District Astronomical Society

www.rugbyastro.org.uk

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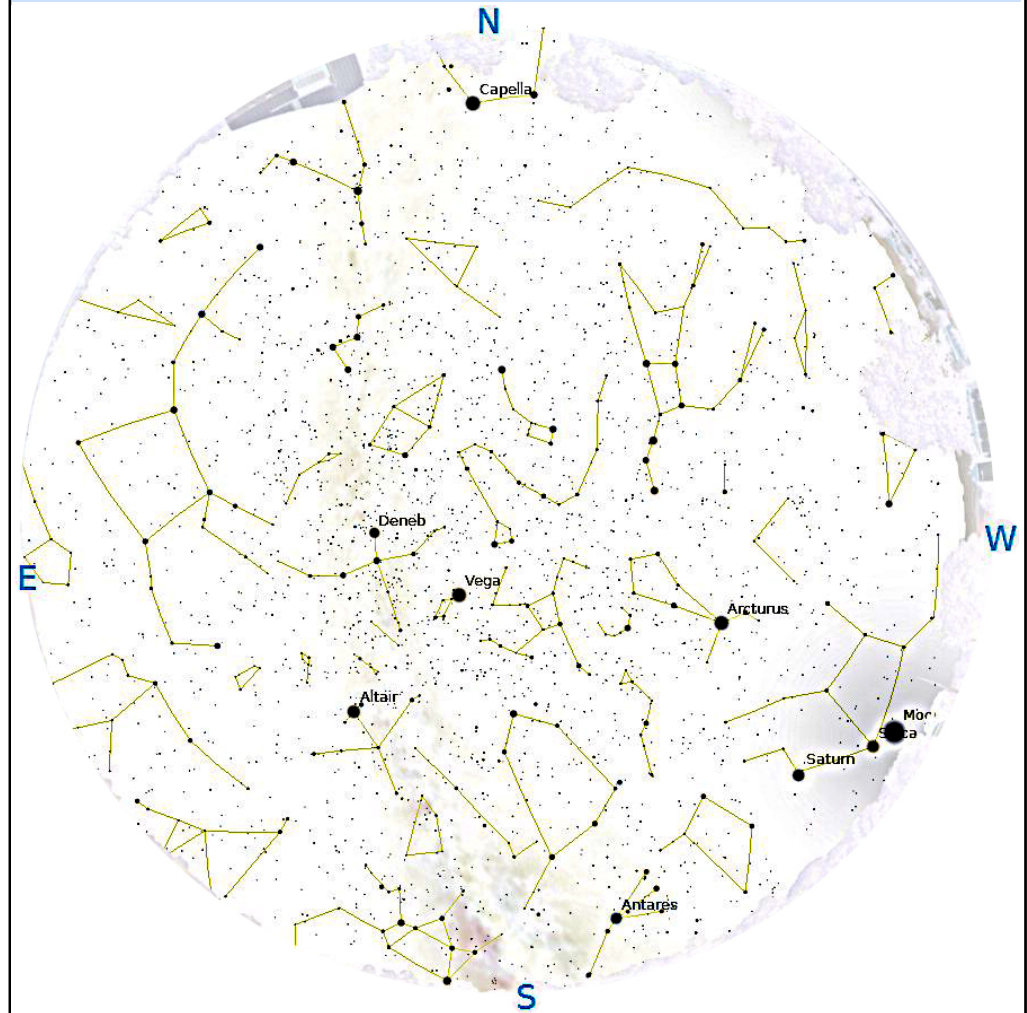
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Rugby & District Astronomical Society Sky Notes

by Chris Longthorn

July 2013, no 51

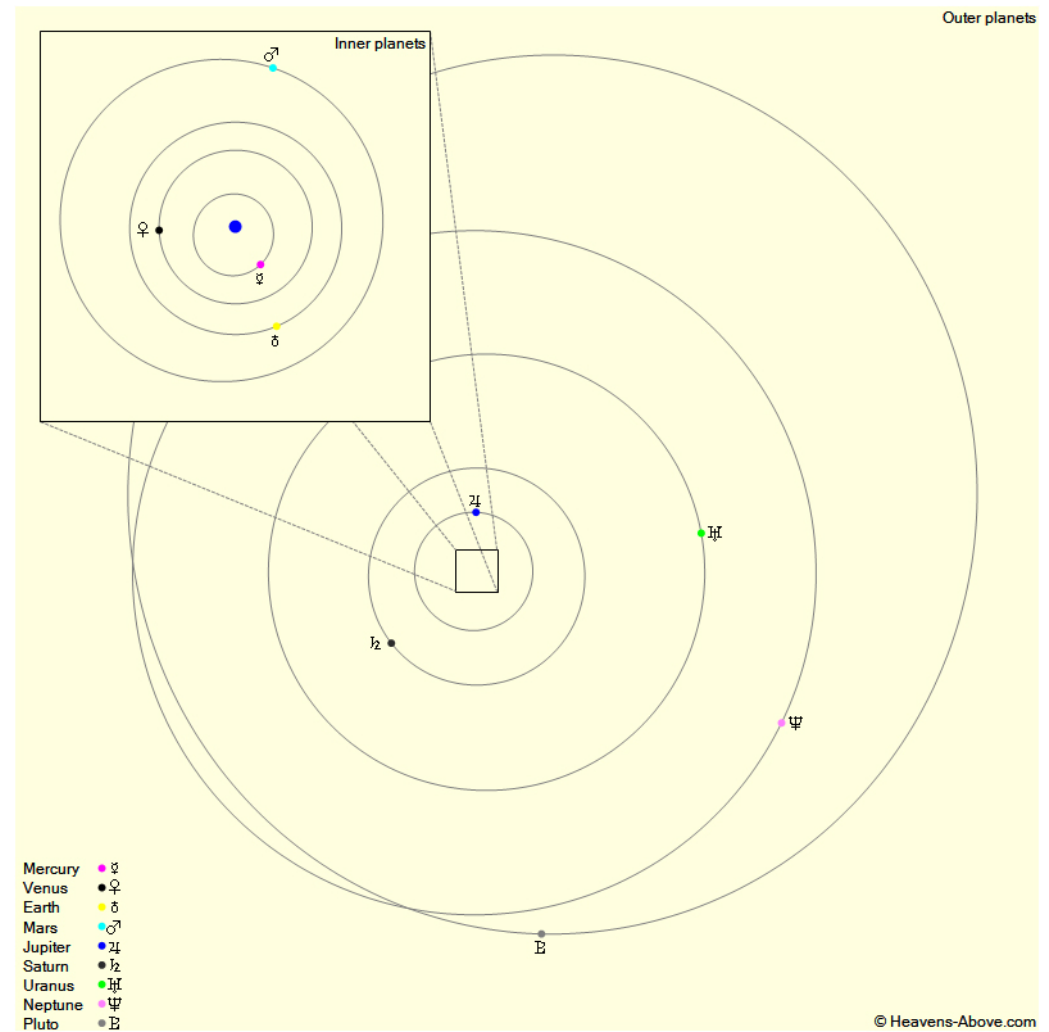


The night sky at 23:00 B.S.T., July 15th

Event Calendar, July 2013

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|--|--|------------------------|-------------------------|
| | 1 | 2 Iridium 3, 05:37:19, Mag - 8.2, Alt 57°, Az 291° (WNW) Iridium 15, 23:38:31, Mag - 8.2, Alt 53°, Az 221° (SW) | 3 Venus 0.1° north of Beehive cluster (conjunction) | 4 | 5 Earth at aphelion | 6 Mars 4° N. of Moon |
| 7 Saturn stationary, begins direct motion in Libra | 8 New Moon (7:14) | 9 Mercury at inferior conjunction | 10 Venus 7° N. of Moon | 11 | 12 | 13 |
| 14 | 15 | 16 First quarter Moon (3:18). Spica 0°.3 S. of Moon. | 17 Saturn 3° N. of Moon | 18 Algol at minimum (00:33) | 19 My birthday | 20 |
| 21 RADAS Stephen Serjeant—Cosmology | 22 Full Moon (18:15) Jupiter 0.7° south of Mars (conjunction) Venus 1°.2 N. of Regulus | 23 | 24 | 25 Iridium 57, 02:50:27, Mag - 8.2, Alt 54°, Az 286° (WNW) | 26 | 27 |
| 28 Delta Aquarid meteor shower maximum (20/hr). Moon waning 60%. (+29th) | 29 Last quarter Moon (17:43) | 30 ISS, -3.4, 71° S, 00:20:47 | 31 ISS, -3.4, 73° S, 02:41:12 | | | |

The Planets, mid month.



Mercury is in Gemini with a magnitude of +3.6, a phase of 4%, and a diameter of 11". It rises at 04:51, transits at 12:32, and sets at 20:14. It is visible low in the east before sunrise.

Venus is in Leo with a magnitude of -3.9, a phase of 87%, and a diameter of 12". It rises at 07:38, transits at 15:09, and sets at 22:39. It is visible low in the west after sunset.

Mars is in Gemini with a magnitude of +1.6, a phase of 98%, and a diameter of 4". It rises at 03:12, transits at 11:37, and sets at 20:02. It is visible low in the east before sunrise.

Jupiter is in Gemini with a magnitude of -1.9 and a diameter of 32". It rises at 03:32, transits at 11:50, and sets at 20:09. It is visible low in the east before sunrise.

Saturn is in Virgo with a magnitude of +0.6 and a diameter of 17". It sets at 00:53, rises again at 14:38, and transits at 19:44. It is visible in the evening sky.

Uranus is in Pisces with a magnitude of +5.8 and a diameter of 4". It transits at 06:19, sets at 12:44, and rises again at 23:50. It is visible in the morning sky.

Neptune is in Aquarius with a magnitude of +7.8 and a diameter of 2". It transits at 04:01, sets at 09:09, and rises again at 22:48. It is well placed for observation throughout the night.