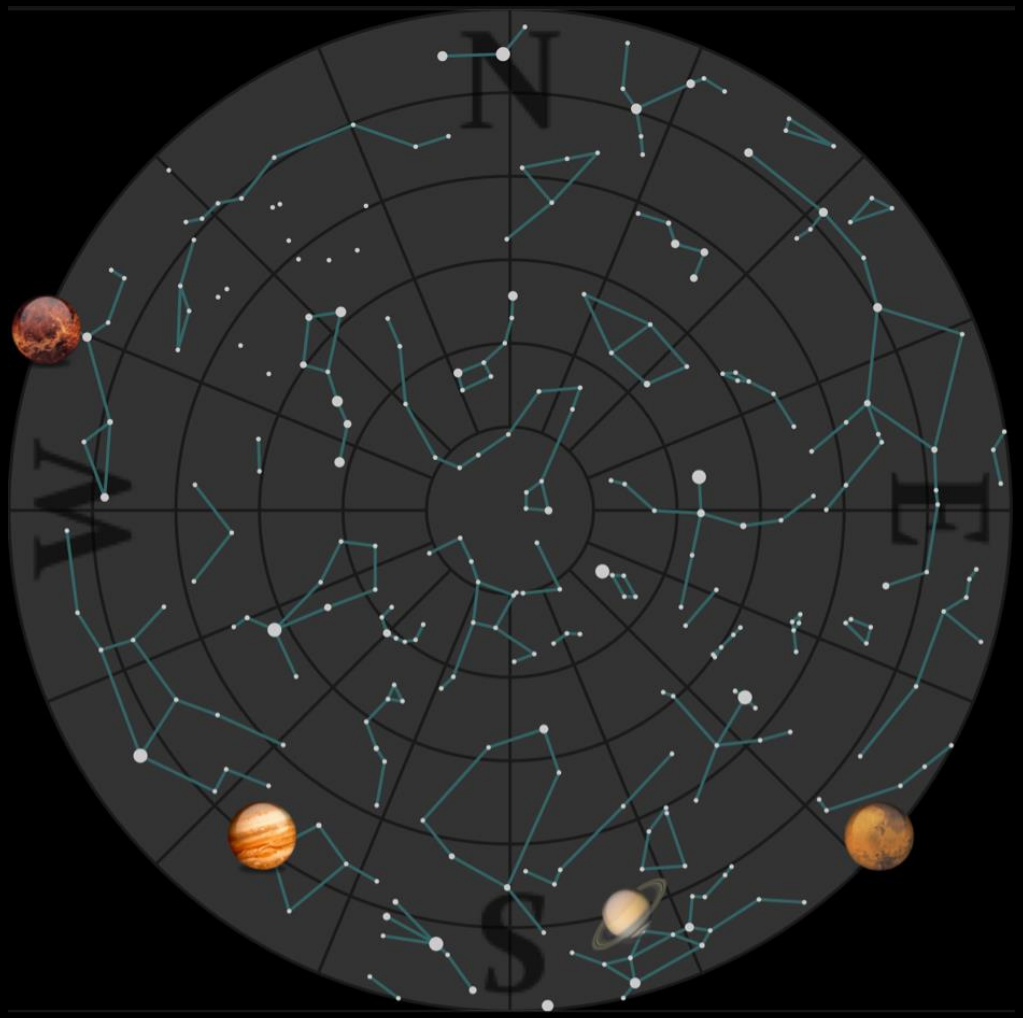
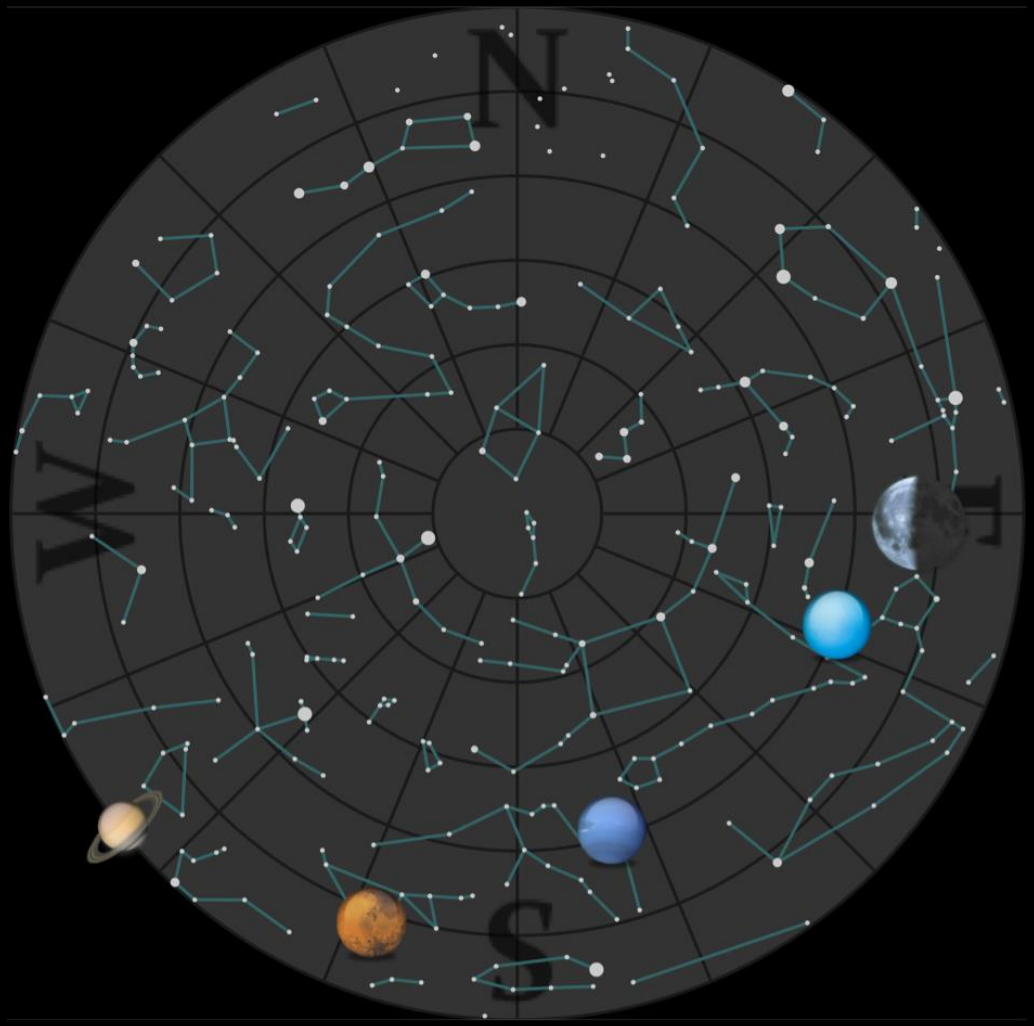
What's Up?

2018 July 09 to August 13

Bill Barton, FRAS



- The Sky 22:00 Tonight



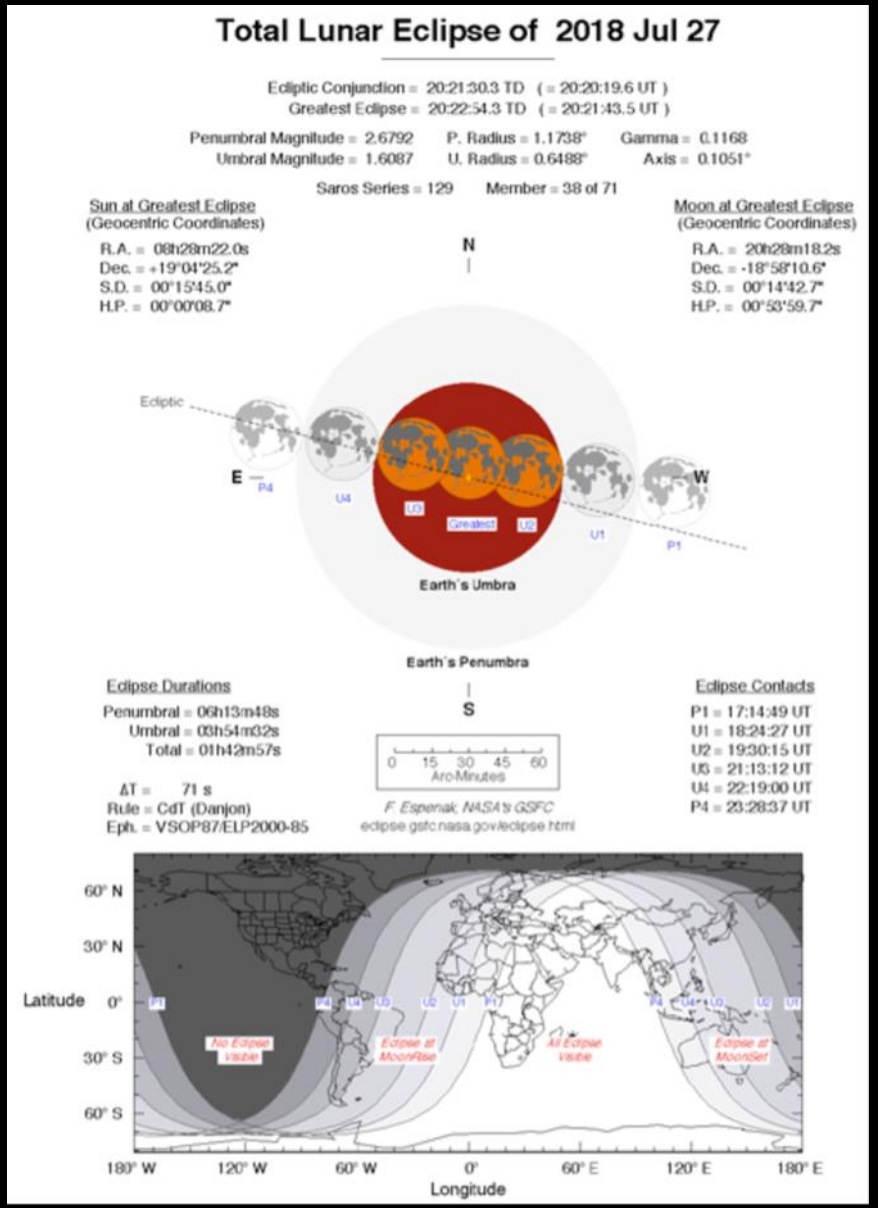
- The Sky 04:00 Tomorrow

Inner Solar System

- Sun
  - Declination decreasing
  - Equinox September 23
- Mercury
  - In evening sky until early August, and favourable for observation
  - Maximum elongation from Sun will be on July 12 (26^0)
  - Rising 07:00, setting 22:30
- Venus
  - In the evening sky until October 2018
  - Maximum elongation and half phase on August 17 (46^0)
  - Rising 08:30, setting 23:15

Earth

- Time
  - 00:00UT ≈ 19:07ST today
- Moon
  -  New, 13 and August 11
  -  First Quarter, 19
  -  Full, 27 (Hay or Thunder)
  -  Last Quarter, August 4
- Eclipses
  - Partial Solar July 13 (not visible from UK) & August 11 (extreme north of Scotland)
  - Total Lunar July 27 (from moonrise for UK, see next slide)
- Meteors
  - Perseids from July 23 to August 20, peak August 13, ZHR=80+



- Total Lunar Eclipse July 27
  - Eclipse begins 19:24 BST
  - Totality begins 20:30 BST
  - Moon rise 20:46 BST
  - Sunset 20:53 BST
  - Totality ends 22:13 BST
  - Eclipse ends 23:19 BST
- Moon azimuth
  - (at 20:46 BST) ≈ 122^0
- Moon declination
  - (at 21:22 BST) ≈ -19^0

Lunar Occultations

- None of note this period

Outer Solar System

- Mars
  - Rising around 22:45, setting 06:30. Perihelic Opposition July 27, but very low altitude
- Jupiter
  - Rising around 15:45, setting 01:15. Opposition was on May 9
- Saturn
  - Rising around 20:10, setting 04:00. Opposition was on June 27, 2018
- Uranus
  - Rising around 00:45, sets 15:00. Opposition on October 24, 2018
- Neptune
  - Rising around 23:30, sets 10:30. Opposition on September 7, 2018

Society Events

- BBQ
  - July 14, Newbourne Village Hall from 1:00pm, BBQ lighting at 3:00pm. Also raffle

- Workshop
  - July 23, Newbourne Village Hall, 7:45pm, *Basic Astrophotography*, Andy Gibbs

Other Events I

- DASH
  - Solar Observing Meeting, Sunday July 15, location TBA
  - Lunar Eclipse, Friday July 27, 8:30pm, Dunwich Heath

- LYRA
  - Discussion Meeting, Tuesday July 10, 7:30pm, Coach House Room, Parkhill Hotel. Matthew Bothwell “From Big Bang to Big Rip - a History of Modern Cosmology”
  - Observing Meeting, Tuesday July 24, 7:30pm, Barn Car Park, Parkhill Hotel

Other Events II

- Athenæum Astronomical Association
  - Members Meetings, Nowton Park, Thursday 19 July, 7:30pm. An Introduction to Radio Astronomy
  - Thursday 2 August, 7:30pm. *How Stars Make Elements*

- SPA
  - Saturday 28 July, 2.00pm. Gustave Tuck Lecture Theatre, University College, London
    - Prof David Rothery, *Mercury and the BepiColombo mission*
    - Graham Cluer, *last year's total solar eclipse*
    - David Finnigan, Deep Sky Section Director