



Orpington Astronomical Society

Observing Officer's report for November 2024



Sky chart

1/11/2024

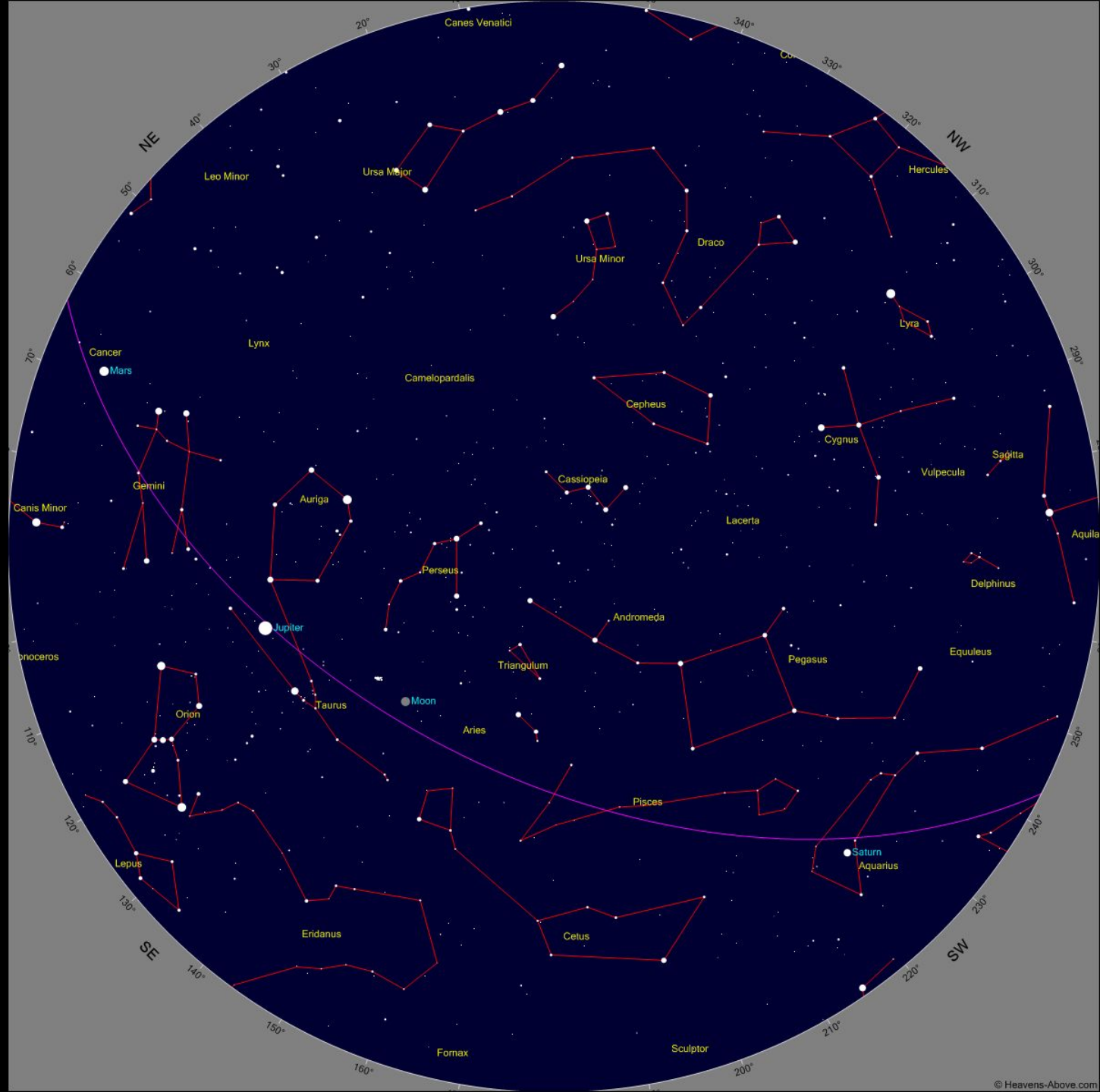
23:00

15/11/2024

22:00

28/11/2024

21:00



Source
<https://heavens-above.com/>

Phases of the Moon

New Moon



1st Nov
12:47

1st quarter



9th Nov
05:55

Full Moon



15th Nov
21:28

3rd quarter



23rd Nov
01:27

Sun phenomena in November

British Summer Time ends on 27th October

Date	Twilight starts *)	Rise	Set	Twilight ends *)	Day length
1 st	5:00	6:53	16:32	18:25	9:39
15 th	5:21	7:17	16:10	18:06	8:52
28 th	5:38	7:38	15:56	17:56	8:18

*) Astronomical twilight

Planets in November

M - Morning sky, before sunrise, E - evening sky, after sunset

Mercury - extremely difficult to see (E)

Venus - good visibility (E), -4.1 mag, low above horizon

Mars - perfect visibility (M), 0 mag brightening to -0.5 mag, at the end of month very close to Beehive Cluster

Jupiter - perfect visibility (E), -2.7 mag, retrograde

Saturn - perfect visibility (E), 0.9 mag

Uranus - average to good visibility (E), 5.6 mag

Neptune - difficult to see (E), 7.7 mag

1st November

2024-11-02 GMT



15th November

2024-11-16 GMT



Selected events:

16 Nov: Mercury greatest eastern elongation

17 Nov: Uranus opposition

Taurids (northern) meteor shower

Period: 13/10 - 02/12

Peak: 12/11

Zenithal hourly rate: 5

Velocity: 29 km/s

Parent: 2004 TG10

Alpha Monocerotids meteor shower

Period: 15-25/11

Peak: 21/11

Zenithal hourly rate: variable

Velocity: 65 km/s

Parent: undiscovered (long period)

Leonids meteor shower

Period: 6-30/11

Peak: 16-17/11

Zenithal hourly rate: 10

Velocity: 70–71 km/s

Parent: 55P/Tempel-Tuttle

Moon just after full Moon making observing rather difficult.

An annual Leonid shower may deposit 12 or 13 tons of particles across the entire planet. About every 33 years they produce meteor storms, during which activity exceeds 1000 meteors per hour, with some events exceeding 100,000 meteors per hour... but that may happen in 9-10 years time.

November Orionids meteor shower

Period: 16/11 - 06/12

Peak: 28/11

Zenithal hourly rate: 3

Velocity: 44 km/s

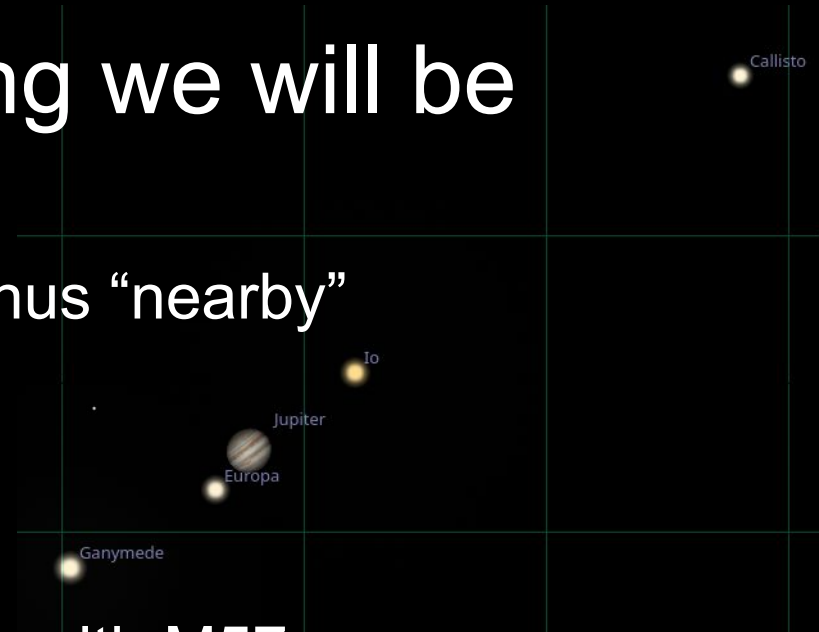
Parent: undiscovered (moderate period, probably disintegrated)



The next Observing evening will be at the OVMH on Thursday 21st November at 8pm.

At the observing evening we will be observing:

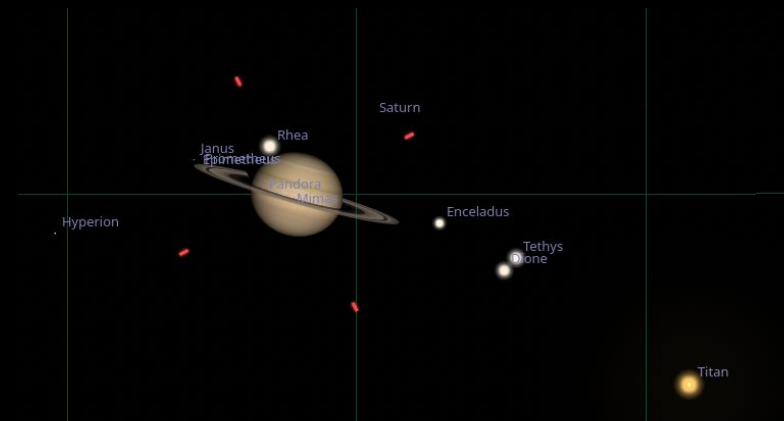
- M45 Pleiades and possibly Uranus “nearby”
- M31 almost in zenith
- Saturn @0.9 mag,
- Jupiter @-2.8 mag,
- last glimpse of Cygnus and Lyra with M57



...but no Moon (20 days old, 68%) rising @21:32

Sunset 16:02

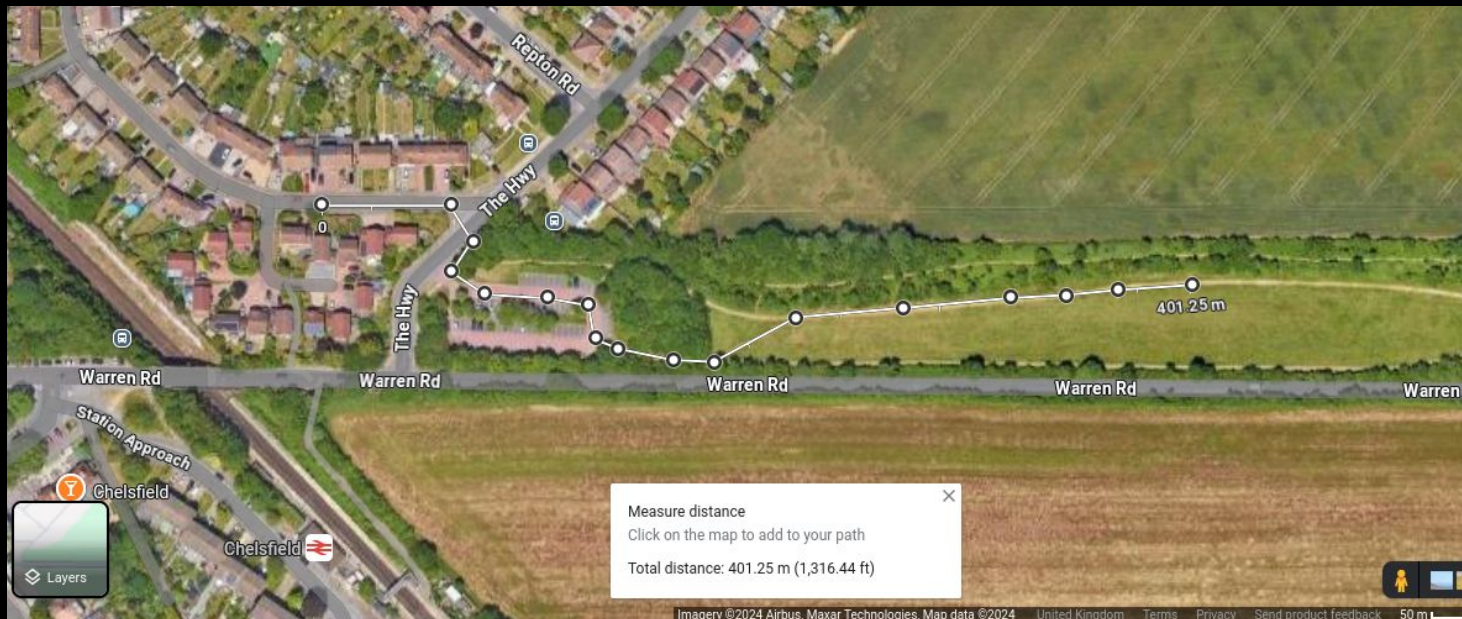
Astronomical twilight: 18:01



Informal meetings

The next informal meeting will be on Friday, 8th November at 8:30pm on Chelsfield Green. Free parking on single yellow lines at Stirling Drive or in Chelsfield car park off The Highway (£4.60).

The viewing spot is located some 400 m away on the green.



Thank you

