

Observing Officer's report for December 2023

Sky chart

1/12/2023 23:00

15/12/2023 22:00

28/12/2023 21:00

Source https://heavens-above.com/



Phases of the Moon



Sun Phenomena in December Winter solstice - 22th December 03:27

Date	Twilight starts *)	Rise	Set	Twilight ends *)	Day Iength
1 st	5:40	7:43	15:54	17:55	8:13
15 th	5:54	7:57	15:51	17:54	7:53
28 th	6:01	8:04	15:57	18:03	7:53

*) Astronomical twilight

Planets in December

Mercury - average visibility becoming difficult to see

Venus - good visibility @-4.2 - -4.0 mag

Mars - extremely difficult to see

Jupiter - perfect visibility @-2.6 mag

Saturn - average visibility @0.9-1.0 mag

Uranus - average visibility Neptune - very difficult to see

1st December



15th December



28th December



04 Dec 14 h: Mercury in greatest eastern elongation Poor visibility due to shallow angle of Ecliptic. 15 min after sunset, Mercury will be already below 5° above the horizon.

22 Dec 03:27 Winter solstice and the shortest day lasting7 h 49 min in London; shorter than the summer solstice dayby 8 h 49 min.

The world 'solstice' comes from the Latin solstitium meaning 'Sun stands still', because the apparent movement of the Sun's path north or south stops before changing direction. Source: <u>When is the winter solstice?</u>

22 Dec 18 h: Mercury in inferior conjunction

Geminids meteor shower

Period: 4 - 20 Dec Peak: 14–15 Dec Maximum intensity: 150 meteors per hour Parent: 3200 Phaethon

The radiant is located right next to Castor. The shower should be visible all night on 14th December.



NROVELAGE MEMORIAL HAL The next Observing evening will be held here at the OVMH on Thursday 21st December at 20:00.

At the observing evening we will be observing:

- Moon (nearly 8 days old, 72% lit)
- Jupiter in close proximity of the Moon (10° apart)
- Pleiades, Great Orion Nebula, Andromeda Galaxy,
 Double Cluster and many other Messier objects will be most likely drowned in Moonlight but we will try to find them

Sunset 15:53 Astronomical twilight: 17:56



