

## CAS Sky Notes for January 2026

Winter is well and truly upon us and the nights are long and dark. If we manage some clear skies, then this is a good time of year for observing.

**There are some interesting things to look out for this month**

### Planets

#### Mercury.

Mercury reaches superior conjunction on 21<sup>st</sup> January. It remains close to the Sun and is not really observable this month.

#### Venus

Venus reaches superior conjunction on the 6<sup>th</sup> January and is not observable this month

#### Mars

Mars finally reaches conjunction on the 9<sup>th</sup> January and is not observable this month, or for quite a few months yet.

#### Jupiter

Jupiter reaches opposition on the 10<sup>th</sup> January and is therefore observable throughout the night. It is a very prominent object in Gemini, just below the twin stars of Castor and Pollux. It is very well placed for observing and gets very high in the sky, meaning it avoids a lot of the atmospheric turbulence lower down. I recommend the website

<https://shallowsky.com/jupiter> which shows you the position of the Galilean moons and the Great Red Spot at any time you pick. A few transits are as follows:

On the 6<sup>th</sup>, at 01:56UT, Io will transit Jupiter. As Jupiter is close to opposition, the Moon and its shadow will appear close together. It does this again on the 7<sup>th</sup> at 202:20UT. Ganymede transits on the 7<sup>th</sup> at 02:06UT and the shadow and moon are touching. If you're up and it's clear, this could be worth looking for. On the 10<sup>th</sup> at 07:11UT (opposition day) Callisto starts to transit in front of its shadow.

#### Saturn

Saturn is past its best now and will soon be moving into the twilight. Its magnitude is at +1 throughout the month, but the rings remain very nearly edge on throughout the month. Although still fairly low in the sky, it can be found in Aquarius, below the square of Pegasus. By mid-month, its coordinates are: RA 23h 49m, Dec -3° 34'. Note: As it's a planet, it won't twinkle like a star, making it easier to identify. You can use <https://shallowsky.com> to access the moons of Saturn as well.

#### Uranus

Uranus remains visible throughout this month. It lies in Taurus, a little below the Pleiades. Its coordinates: RA 03h 43m, Dec +19.5°, and magnitude +5.7.

#### Neptune

Neptune is still observable, as it is close to Saturn, being a little above it. It is not an easy object, but it can be found with coordinates: RA 0h 00m 21s, Dec -1° 25'. It is also below the square of Pegasus and has a magnitude of +7.9. By the end of the month it will become a more difficult object.

## Moon Phases:

**3<sup>rd</sup> Jan:** Full Moon

**18<sup>th</sup> Jan:** New Moon

**10<sup>th</sup> Jan:** Last Quarter

**26<sup>th</sup> Jan:** First Quarter

**The Lunar X and Lunar V shapes** may be seen around **17.00UT on the 25<sup>th</sup> January**. These shapes appear on the terminator, due to light catching crater rims, and are worth looking for. The X is south of the equator and the V to the north.

**Occultations:** On the evening of the 27<sup>th</sup> January from about 21:30UT, the gibbous Moon passes through the northern part of the Pleiades, occulting several stars. This could be a job for video.

## Sun

The Sun is very low in the sky at this time of year, but still fairly active as it is still near solar maximum, so do watch out for large Sunspot groups. Remember to **never look at the Sun directly without a proper solar filter**.

Earth reaches perihelion around the 4<sup>th</sup> January and so is at its closest to the Sun. It won't feel particularly warm though!

## Aurora

Aurora may be visible this month as the northern skies are dark early. Watch out for any exceptional activity though, using one of the many aurora alert apps.

## Meteors

The **Quadrantid** meteor shower occurs around the 3<sup>rd</sup> January. The Zenithal Hourly Rate (ZHR) at maximum may reach 80, but this year's display will be rather spoiled by the full Moon. They are one of the richest showers of the year and well worth looking out for. There are many slow and bright meteors to be seen. As we will be approaching new Moon, these could be very favourable.

## Deep Sky Objects

The **Orion Nebula** is well placed, as well as the **Pleiades**. To the east of Gemini (where Jupiter is) lies the sickle of Leo. Between these is Cancer. Look for the beautiful open cluster *Praesepe* M44, which is a lovely open cluster and a good target for astrophotography.

*The Andromeda galaxy* (M31) is very well placed, being almost overhead by mid evening. This also applies to the *Double Cluster in Perseus*. Both make great objects in binoculars or a small telescope and fantastic objects for astrophotography.

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