

The Evening Sky Map

FREE* EACH MONTH FOR YOU TO EXPLORE, LEARN & ENJOY THE NIGHT SKY

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The Specular Star Cluster is the SKY MAP Around THE HORIZON CENTER (FOR EXAMPLE, NORTH) TURN THE SKY MAP AROUND ITS CENTER (USA). AS YOU ARE DOING THIS, THE CONSTELLATION TAURUS IS TURNED INTO THE CONSTELLATION TAURUS. THE BULL. THE COMPASS DIRECTION THAT APPEARS ALONG THE BOTTOM OF THE MAP IS THE SAME AS THE DIRECTION THAT YOU FACE. BEGIN BY USING THE SKY MAP TO FIND A BRIGHT STAR PATTERN IN THE SKY.

NORTHERN HEMISPHERE
NOVEMBER 2025

Sky Calendar – November 2025

- 2 Venus 3.5° NNE of Spica at 8h UT (16° from Sun, morning sky). Mag. -3.9.
- 2 Moon near Saturn at 9h UT (evening sky). Mag. 0.9.
- 5 Southern Taurid meteor shower peaks. Active from Sept 23 to Dec 8. Associated with Comet 2P/Encke.
- 5 Full Moon at 13:19 UT. Supermoon.
- 5 Moon at perigee (closest to Earth) at 22:40 UT (distance 356,833km; angular size $33.5'$).
- 6 Moon near the Pleiades at 17h UT (morning sky).
- 8 Comet C/2025 A6 (Lemmon) at perihelion. Mag. 4.6.
- 9 Mercury 3.9° NW of Antares at 5h UT (24° from Sun, evening sky). Mags. 0.4 and 1.0.
- 10 Moon near Jupiter at 10h UT (morning sky). Mag. -2.4.
- 12 Northern Taurid meteor shower peaks. Active from Oct 13 to Dec 2. Occasional bright fireball.
- 12 Last Quarter Moon at 5:28 UT.
- 13 Moon near Regulus at 1h UT (morning sky).
- 13 Mercury 1.2° SSW of Mars at 4h UT (15° from Sun, evening sky). Mags. 1.3 and 1.4.
- 17 Leonid meteor shower peaks. Arises from debris ejected by comet 55P/Tempel-Tuttle. Produces very fast meteors (70 km/sec). Expect 10 to 15 meteors/hour under dark skies.
- 17 Moon near Spica at 11h UT (morning sky).
- 18 Mars 4.0° N of Antares at 15h UT (14° from Sun, evening sky). Mags. 1.4 and 1.0.
- 19 Moon near Venus at 5h UT (12° from Sun, morning sky). Mag. -3.9.
- 20 Moon at apogee (farthest from Earth) at 3h UT (distance 406,691km; angular size $29.4'$).
- 20 New Moon at 6:47 UT. Start of lunation 1273.
- 20 Mercury at inferior conjunction with the Sun at 9h UT. The innermost planet passes into the morning sky.
- 28 First Quarter Moon at 6:59 UT.
- 29 Moon near Saturn at 17h UT (evening sky). Mag. 1.1.

More sky events and links at <http://Skymaps.com/skycalendar/>

All times in Universal Time (UT). (USA Eastern Standard Time = UT - 5 hours.)



Support The Evening Sky Map

- Helping curious minds to explore the night sky since January 2000 •
- Recommended Products for Sky Watchers: [skymaps.com/store/](http://Skymaps.com/store/)
- All sales support the production of this free resource. Thank you.

SKY MAP SHOWS HOW
THE NIGHT SKY LOOKS

EARLY NOV 8 PM
LATE NOV 7 PM

SKY MAP DRAWN FOR
A LATITUDE OF 40°
NORTH AND IS
SUITABLE FOR
LATITUDES UP
TO 15° NORTH
OR SOUTH
OF THIS

The constellation Cynus, the Swan, is sometimes called the Northern Cross because of its prominent cross-shape.

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Symbols

- Galaxy
- Double Star
- ◎ Variable Star
- Diffuse Nebula
- ◊ Planetary Nebula
- Open Star Cluster
- ⊕ Globular Star Cluster

Star Magnitudes

-1 0 1 2 3 4

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About the Celestial Objects

Listed on this page are several of the brighter, more interesting celestial objects visible in the evening sky this month (refer to the monthly sky map). The objects are grouped into three categories. Those that can be easily seen with the naked eye (that is, without optical aid), those easily seen with binoculars, and those requiring a telescope to be appreciated. **Note, all of the objects (except single stars) will appear more impressive when viewed through a telescope or very large binoculars.** They are grouped in this way to highlight objects that can be seen using the optical equipment that may be available to the star gazer.

Tips for Observing the Night Sky

When observing the night sky, and in particular deep-sky objects such as star clusters, nebulae, and galaxies, it's always best to observe from a dark location. Avoid direct light from street lights and other sources. If possible observe from a dark location away from the light pollution that surrounds many of today's large cities.

You will see more stars after your eyes adapt to the darkness—usually about 10 to 20 minutes after you go outside. Also, if you need to use a torch to view the sky map, cover the light bulb with red cellophane. This will preserve your dark vision.

Finally, even though the Moon is one of the most stunning objects to view through a telescope, its light is so bright that it brightens the sky and makes many of the fainter objects very difficult to see. So try to observe the evening sky on moonless nights around either New Moon or Last Quarter.

Astronomical Glossary

Conjunction – An alignment of two celestial bodies such that they present the least angular separation as viewed from Earth.

Constellation – A defined area of the sky containing a star pattern.

Diffuse Nebula – A cloud of gas illuminated by nearby stars.

Double Star – Two stars that appear close to each other in the sky; either linked by gravity so that they orbit each other (binary star) or lying at different distances from Earth (optical double). Apparent separation of stars is given in seconds of arc (").

Ecliptic – The path of the Sun's center on the celestial sphere as seen from Earth.

Elongation – The angular separation of two celestial bodies. For Mercury and Venus the greatest elongation occurs when they are at their most angular distance from the Sun as viewed from Earth.

Galaxy – A mass of up to several billion stars held together by gravity.

Globular Star Cluster – A ball-shaped group of several thousand old stars.

Light Year (ly) – The distance a beam of light travels at 300,000 km/sec in one year.

Magnitude – The brightness of a celestial object as it appears in the sky.

Open Star Cluster – A group of tens or hundreds of relatively young stars.

Opposition – When a celestial body is opposite the Sun in the sky.

Planetary Nebula – The remnants of a shell of gas blown off by a star.

Universal Time (UT) – A time system used by astronomers. Also known as Greenwich Mean Time. USA Eastern Standard Time (for example, New York) is 5 hours behind UT.

Variable Star – A star that changes brightness over a period of time.

NORTHERN HEMISPHERE NOVEMBER 2025

CELESTIAL OBJECTS



Easily Seen with the Naked Eye

Altair	• Brightest star in Aquila. Name means "the flying eagle". Dist=16.7 ly.
Capella	• The 6th brightest star. Appears yellowish in color. Spectroscopic binary. Dist=42 ly.
δ Cephei	• Cepheid prototype. Mag varies between 3.5 & 4.4 over 5.366 days. Mag 6 companion.
Deneb	• Brightest star in Cygnus. One of the greatest known supergiants. Dist=1,400±200 ly.
α Herculis	• Semi-regular variable. Magnitude varies between 3.1 & 3.9 over 90 days. Mag 5.4 companion.
Vega	• The 5th brightest star in the sky. A blue-white star. Dist=25.0 ly.
Algol	• Famous eclipsing binary star. Magnitude varies between 2.1 & 3.4 over 2.867 days.
Fomalhaut	• Brightest star in Piscis Austrinus. In Arabic the "fish's mouth". Dist=25 ly.
Pleiades	• The Seven Sisters. Spectacular cluster. Many more stars visible in binoculars. Dist=399 ly.
Hyades	• Large V-shaped star cluster. Binoculars reveal many more stars. Dist=152 ly.
Aldebaran	• Brightest star in Taurus. It is not associated with the Hyades star cluster. Dist=66.7 ly.
Polaris	• The North Pole Star. A telescope reveals an unrelated mag 8 companion star. Dist=433 ly.
UMi	• The North Pole Star. A telescope reveals an unrelated mag 8 companion star. Dist=433 ly.

Easily Seen with Binoculars

M31	○ The Andromeda Galaxy. Most distant object visible to naked eye. Dist=2.5 million ly.
M2	⊕ Resembles a fuzzy star in binoculars.
η Aquilae	○ Bright Cepheid variable. Mag varies between 3.6 & 4.5 over 7.166 days. Dist=1,200 ly.
M38	○ Stars appear arranged in "pi" or cross shape. Dist=4,300 ly.
M36	○ About half size of M38. Located in rich Milky Way star field. Dist=4,100 ly.
M37	○ Very fine star cluster. Discovered by Messier in 1764. Dist=4,400 ly.
μ Cephei	○ Herschel's Garnet Star. One of the reddest stars. Mag 3.4 to 5.1 over 730 days.
Mira	○ Famous long period variable star. Mag varies between 3.0 & 10.1 over 332 days.
χ Cygni	○ Long period pulsating red giant. Magnitude varies between 3.3 & 14.2 over 407 days.
M39	○ May be visible to the naked eye under good conditions. Dist=900 ly.
ν Draconis	○ Wide pair of white stars. One of the finest binocular pairs in the sky. Dist=100 ly.
M13	○ Best globular in northern skies. Discovered by Halley in 1714. Dist=23,000 ly.
M92	○ Fainter and smaller than M13. Use a telescope to resolve its stars.
ε Lyrae	○ Famous Double Double. Binoculars show a double star. High power reveals each a double.
R Lyrae	○ Semi-regular variable. Magnitude varies between 3.9 & 5.0 over 46.0 days.
IC 4665	○ Large, scattered open cluster. Visible with binoculars.
6633	○ Scattered open cluster. Visible with binoculars.
M15	○ Only globular known to contain a planetary nebula (Mag 14, d=1"). Dist=30,000 ly.
Double Cluster	○ Double Cluster in Perseus. NGC 869 & 884. Excellent in binoculars. Dist=7,300 ly.
M25	○ Bright cluster located about 6 deg N of "teapot's" lid. Dist=1,900 ly.
253	○ Fine, large, cigar-shaped galaxy. Requires dark sky. Member of Sculptor Group.
Mizar & Alcor	● Good eyesight or binoculars reveals 2 stars. Not a binary. Mizar has a mag 4 companion.
Cr 399	○ Coathanger asterism or "Brocchi's Cluster". Not a true star cluster. Dist=218 to 1,140 ly.

Telescopic Objects

γ Andromedae	● Attractive double star. Bright orange star with mag 5 blue companion. Sep=9.8".
7009	◊ Saturn Nebula. Requires 8-inch telescope to see Saturn-like appendages.
7293	◊ Helix Nebula. Spans nearly 1/4 deg. Requires dark sky. Dist=300 ly.
γ Arietis	● Impressive looking double blue-white star. Visible in a small telescope. Sep=7.8".
η Cassiopeiae	● Yellow star mag 3.4 & orange star mag 7.5. Dist=19 ly. Orbit=480 years. Sep=12".
Albireo	● Beautiful double star. Contrasting colours of orange and blue-green. Sep=34.4".
61 Cygni	● Attractive double star. Mags 5.2 & 6.1 orange dwarfs. Dist=11.4 ly. Sep=28.4".
γ Delphini	● Appear yellow & white. Mags 4.3 & 5.2. Dist=100 ly. Struve 2725 double in same field.
β Lyrae	◊ Eclipsing binary. Mag varies between 3.3 & 4.3 over 12.940 days. Fainter mag 7.2 blue star.
M57	◊ Ring Nebula. Magnificent object. Smoke-ring shape. Dist=4,100 ly.
M17	□ Omega Nebula. Contains the star cluster NGC 6618. Dist=4,900 ly.
M11	○ Wild Duck Cluster. Resembles a globular through binoculars. V-shaped. Dist=5,600 ly.
M16	□ Eagle Nebula. Requires a telescope of large aperture. Dist=8,150 ly.
M1	□ Crab Nebula. Remnant from supernova which was visible in 1054. Dist=6,500 ly.
M33	○ Fine face-on spiral galaxy. Requires a large aperture telescope. Dist=2.3 million ly.
M81	○ Beautiful spiral galaxy visible with binoculars. Easy to see in a telescope.
M82	○ Close to M81 but much fainter and smaller.
M27	◊ Dumbbell Nebula. Large, twin-lobed shape. Most spectacular planetary. Dist=975 ly.
Vul	◊ Dumbbell Nebula. Large, twin-lobed shape. Most spectacular planetary. Dist=975 ly.