

The Evening Sky Map

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

Sky Calendar – February 2025

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- 1 **Moon near Saturn** at 5h UT (evening sky). Mag. 1.2. Take the opportunity to view Saturn and its almost edge-on rings before it disappears into the evening twilight at the end of the month.
- 1 **Moon near Venus** at 23h UT (evening sky). Mag. -4.6.
- 2 **Moon at perigee** (closest to Earth) at 2:40 UT (distance 367,457km; angular size 32.5').
- 5 **First Quarter Moon** at 8:03 UT.
- 6 **Moon near the Pleiades** at 8h UT (evening sky).
- 7 **Moon near Jupiter** at 3h UT (evening sky). Mag. -2.5.
- 8 **Moon near M35 star cluster** at 16h UT (evening sky).
- 9 **Mercury at superior conjunction** with the Sun at 12h UT (not visible). The innermost planet passes into the evening sky.
- 9 **Moon near Mars** at 18h UT (evening sky). Mag. -0.8. Occultation visible from parts of Russia, China, eastern Canada and Greenland.
- 10 **Moon near Castor** at 0h UT (evening sky).
- 10 **Moon near Pollux** at 6h UT (evening sky).
- 10 **Mars at northernmost declination** (26.2°) at 16h UT (evening sky).
- 11 **Moon near Beehive cluster M44** at 8h UT (evening sky).
- 12 **Full Moon** at 13:53 UT.
- 13 **Moon near Regulus** at 3h UT (midnight sky).
- 14 **Venus shows greatest illuminated extent** (334 square arc seconds) at 22h UT.
- 16 **Venus at its brightest** at 9h UT (39.7° from Sun, evening sky). Mag. -4.63.
- 17 **Moon near Spica** at 13h UT (morning sky).
- 18 **Moon at apogee** (farthest from Earth) at 1h UT (distance 404,882km; angular size 29.5').
- 20 **Last Quarter Moon** at 17:33 UT.
- 21 **Moon near Antares** at 10h UT (83° from Sun, morning sky).
- 28 **New Moon** at 00:46 UT. Start of lunation 1264.

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

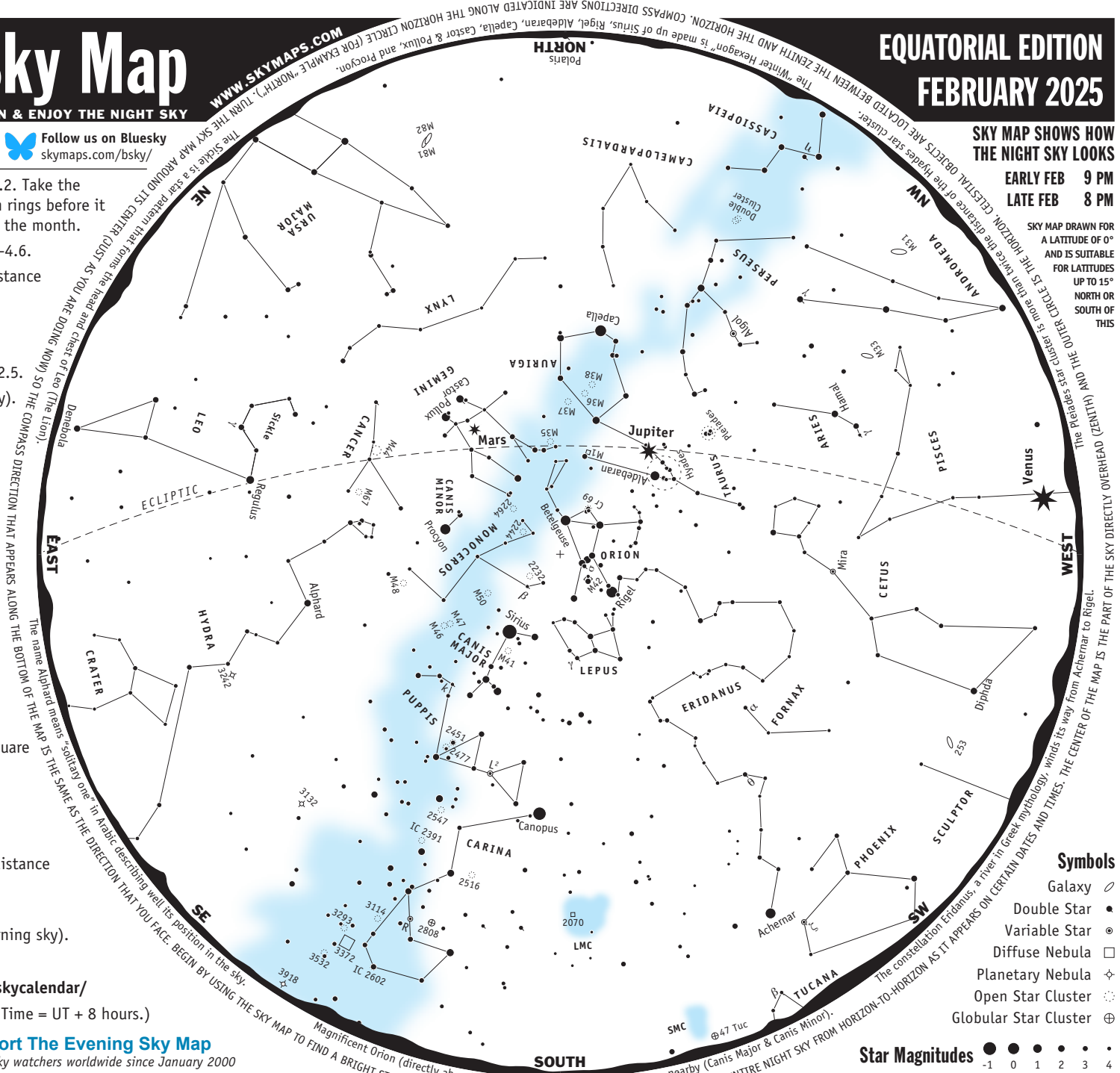
All times in Universal Time (UT). (Singapore Standard Time = UT + 8 hours.)



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EQUATORIAL EDITION FEBRUARY 2025

SKY MAP SHOWS HOW THE NIGHT SKY LOOKS

EARLY FEB 9 PM
 LATE FEB 8 PM

SKY MAP DRAWN FOR A LATITUDE OF 0° AND IS SUITABLE FOR LATITUDES UP TO 15° NORTH OR SOUTH OF THIS

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. Singapore Standard Time is UT plus 8 hours.

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

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CELESTIAL OBJECTS

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Easily Seen with the Naked Eye

Capella	Aur	•	The 6th brightest star. Appears yellowish in color. Spectroscopic binary. Dist=42 ly.
Sirius	CMa	•	The brightest star in the sky. Also known as the "Dog Star". Dist=8.6 ly.
Procyon	CMi	•	Greek name meaning "before the dog" -- rises before Sirius (northern latitudes). Dist=11.4 ly.
Canopus	Car	•	Second brightest star in the sky. 14,000 times more luminous than the Sun. Dist=309 ly.
Achernar	Eri	•	Brightest star in Eridanus, The River. Arabic name meaning "end of river". Dist=144 ly.
Castor	Gem	•	Multiple star system with 6 components. 3 stars visible in telescope. Dist=52 ly.
Pollux	Gem	•	With Castor, the twin sons of Leda in classical mythology. Dist=34 ly.
Regulus	Leo	•	Brightest star in Leo. A blue-white star with at least 1 companion. Dist=77 ly.
Rigel	Ori	•	The brightest star in Orion. Blue supergiant star with mag 7 companion. Dist=770 ly.
Betelgeuse	Ori	•	One of the largest red supergiant stars known. Diameter=300 times that of Sun. Dist=430 ly.
Algol	Per	•	Famous eclipsing binary star. Magnitude varies between 2.1 & 3.4 over 2.867 days.
Pleiades	Tau	•	The Seven Sisters. Spectacular cluster. Many more stars visible in binoculars. Dist=399 ly.
Hyades	Tau	•	Large V-shaped star cluster. Binoculars reveal many more stars. Dist=152 ly.
Aldebaran	Tau	•	Brightest star in Taurus. It is not associated with the Hyades star cluster. Dist=66.7 ly.
Polaris	UMi	•	The North Pole Star. A telescope reveals an unrelated mag 8 companion star. Dist=433 ly.

Easily Seen with Binoculars

M38	Aur	•	Stars appear arranged in "pi" or cross shape. Dist=4,300 ly.
M36	Aur	•	About half size of M38. Located in rich Milky Way star field. Dist=4,100 ly.
M37	Aur	•	Very fine star cluster. Discovered by Messier in 1764. Dist=4,400 ly.
M44	Cnc	•	Praesepe or Beehive Cluster. Visible to the naked eye. Dist=590±20 ly.
M41	CMa	•	First recorded observation by Aristotle in 325 BC as "cloudy spot". Dist=2,300 ly.
2516	Car	•	Spectacular open star cluster of 100 stars spanning 1/2 deg. Dist=1,300 ly.
2808	Car	•	Located 4 deg W of Nu Carinae. Visible to the naked eye on clear nights.
Mira	Cet	•	Famous long period variable star. Mag varies between 3.0 & 10.1 over 332 days.
LMC	Dor	•	Large Magellanic Cloud. A neighbouring galaxy of the Milky Way. Dist=180,000 ly.
M35	Gem	•	Fine open cluster located near foot of the twin Castor. Dist=2,800 ly.
M48	Hya	•	12+ stars in 7x binoculars. Triangular asterism near centre. Dist=1,990 ly.
γ Leporis	Lep	•	Visible with binoculars. Gold & white stars. Mags 3.6 & 6.2. Dist=30 ly. Sep=96.3".
2232	Mon	•	A large scattered star cluster of 20 stars. Dist=1,300 ly.
2244	Mon	•	Surrounded by the rather faint Rosette Nebula. Dist=5,540 ly.
M50	Mon	•	Visible with binoculars. Telescope reveals individual stars. Dist=3,000 ly.
Cr 69	Ori	•	Lambda Orionis Cluster. Dist=1,630 ly.
M42	Ori	•	The Great Orion Nebula. Spectacular bright nebula. Best in telescope. Dist=1,300 light years.
Double Cluster	Per	•	Double Cluster in Perseus. NGC 869 & 884. Excellent in binoculars. Dist=7,300 ly.
L ²	Pup	•	Semi-regular variable. Magnitude varies between 2.6 & 6.2 over 140.42 days.
M47	Pup	•	Bright star cluster. 15+ stars in 7x binoculars. Dist=1,500 ly.
M46	Pup	•	Dist=5,400 ly. Contains planetary NGC 2438 (Mag 11, d=65") -- not associated.
2451	Pup	•	30+ stars in binoculars. The brightest star, γ Puppis, is red. Dist=850 ly.
2477	Pup	•	Very rich but distant star cluster (4,200 ly). Resembles globular through binoculars.
SMC	Tuc	•	Small Magellanic Cloud. Companion galaxy to Milky Way. Requires dark sky. Dist=210,000 ly.
2547	Vel	•	Fine open cluster visible through binoculars. Dist=1,300 ly.
IC 2391	Vel	•	Omicron Velorum Cluster. Superb object for binoculars. Dist=450 ly.

Telescopic Objects

γ Andromedae	And	•	Attractive double star. Bright orange star with mag 5 blue companion. Sep=9.8".
M67	Cnc	•	Contains 500+ stars mag 10 & fainter. One of the oldest clusters. Dist=2,350 ly.
2070	Dor	•	Tarantula Nebula. A bright nebula located in LMC. A star-forming region.
θ Eridani	Eri	•	Striking blue-white double star. Mags 3.2 & 4.3. Visible in a small telescope. Sep=8.2".
3242	Hya	•	Ghost of Jupiter. Bright blue disk. Mag 11 central star. Dist=2,600 ly.
γ Leonis	Leo	•	Superb pair of golden-yellow giant stars. Mags 2.2 & 3.5. Orbit=600 years. Sep=4.4".
β Monocerotis	Mon	•	Triple star. Mags 4.6, 5.0 & 5.4. Requires telescope to view arc-shape. Sep=7.3".
2264	Mon	•	Christmas Tree Cluster. Associated with the Cone Nebula. Dist=2,450 ly.
σ Orionis	Ori	•	Superb multiple star. 2 mag 7 stars one side, mag 9 star on other. Struve 761 triple in field.
k Puppis	Pup	•	Telescope easily shows two blue-white stars of almost equal brightness. Sep=9.9".
M1	Tau	•	Crab Nebula. Remnant from supernova which was visible in 1054. Dist=6,500 ly.
3132	Vel	•	One of the brightest planetaries. Magnitude 10 central star. Dist=2,600 ly.