



SKY MAP October

Grey items will not be seen in light polluted cities

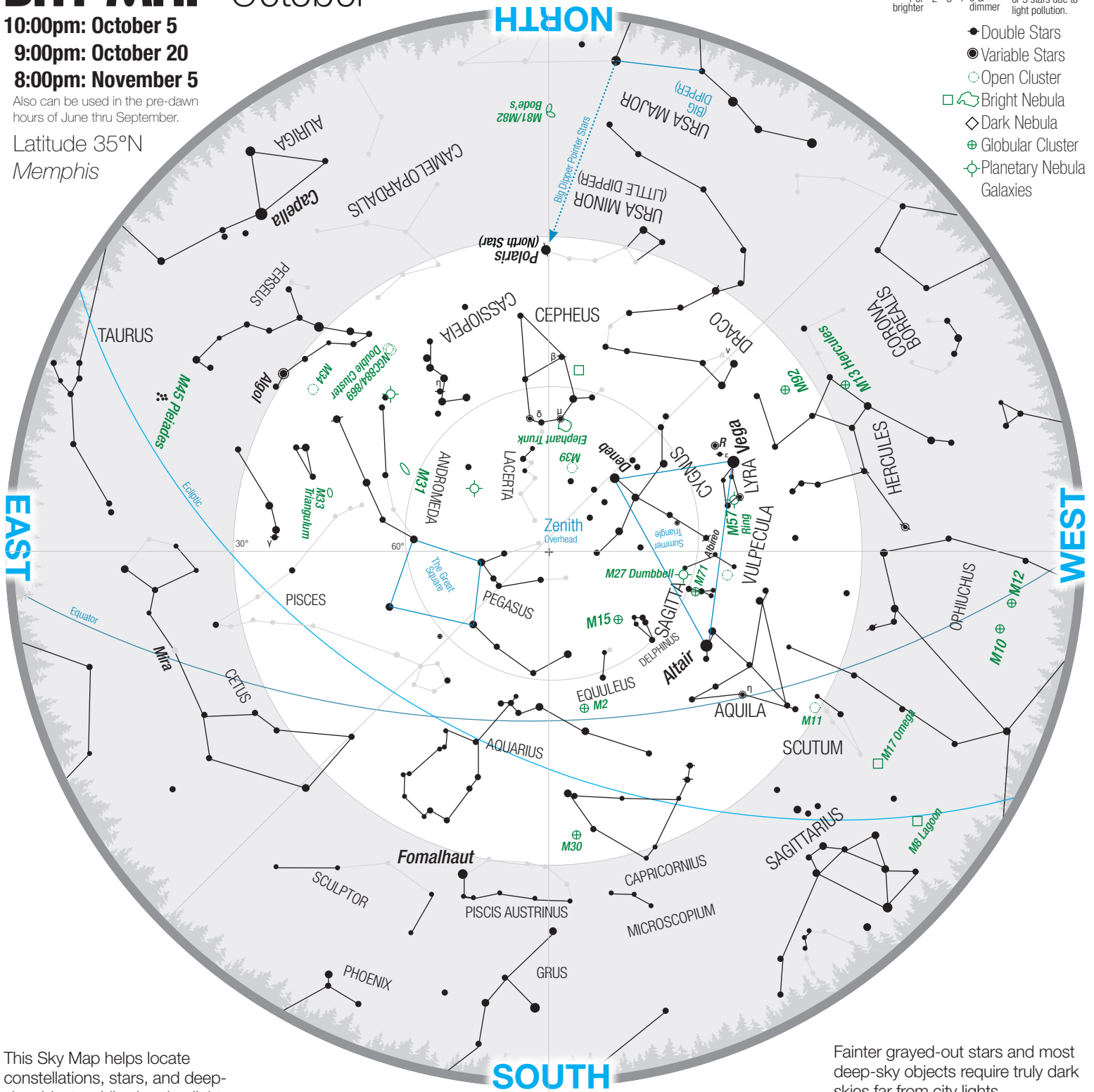
Magnitude (Brightness)
Stars 1 or brighter ● 2 ● 3 ● 4 ● 5 & dimmer ●
In cities you may not be able to see magnitude 3, 4 or 5 stars due to light pollution.

10:00pm: October 5
9:00pm: October 20
8:00pm: November 5

Also can be used in the pre-dawn hours of June thru September.

Latitude 35°N
Memphis

- Double Stars
- Variable Stars
- Open Cluster
- Bright Nebula
- ◇ Dark Nebula
- ⊕ Globular Cluster
- ⊕ Planetary Nebula
- Galaxies



This Sky Map helps locate constellations, stars, and deep-sky objects while showing light pollution's impact. Trees mark the horizon; center is zenith (overhead). Three circles show horizon, 30° altitude, and 60° altitude—in cities, stars below 30° are usually hidden by haze and skyglow.

Rotate so the direction you face is at the bottom (e.g., North upright when facing north). Brighter stars are black; 5th-mag and fainter stars grayed out (invisible in city light). Overhead stars near center, low stars near edge.

Constellation names ALL CAPS. Star names bold italic lowercase. Deep-sky objects smaller/green (color prints). Moon/planets not shown—they move but stay near the ecliptic (blue arc) through the zodiac.

Fainter grayed-out stars and most deep-sky objects require truly dark skies far from city lights. High-overhead objects are easiest to see, with less interference from trees, buildings, and light pollution. Contact the Memphis Astronomical Society (M.A.S.) for more info on our sky maps and other outreach services (memphisastro.org).



Observing List October

Naked Eye Objects				Light Years*
•	Altair	Aquila	Brightest star in Aquila. Name means "the flying eagle".	16.8
•	Arcturus	Bootes	Giant K star. "Bear watcher"	37
◉	δ Cephei	Cepheus	Cepheid prototype. Mag varies between 3.5 & 4.4 over 5k days. Mag 6 companion.	887
◉	α Herculis	Hercules	Semi-regular variable. Magnitude varies between 3.1 & 3.9 over 90 days. Mag 5.4 companion.	360
•	Vega	Lyra	The 5th brightest star in the sky. A blue-white star.	25
◉	Algol	Perseus	Eclipsing binary star. Magnitude varies between 2.1 & 3.4 over 3 days	90
•	Fomalhaut	Piscis Austrinus	Arabic translation: "fish's mouth".	25
◉	Pleiades	Taurus	M45: The Seven Sisters. Spectacular cluster. Many more stars visible in binoculars.	399
◉	Hyades	Taurus	Large V-shaped star cluster. Binoculars reveal many more stars.	152
•	Polaris	Ursa Minor	The North Pole Star. A telescope reveals a mag 8 companion.	433

Binoculars Objects				Light Years*
◉	M31	Andromeda	The Great Andromeda Galaxy. Most distant object visible to naked eye.	2.5M
◉	η Aquilae	Aquila	Bright Cepheid variable. Mag varies between 3.6 & 4.5 over 7.166 days.	1200
◉	μ Cephei	Cepheus	Red supergiant. Herschel's Garnet Star. Long period variable (Mag 3.4 to 5.1.).	3.1k
◉	Mira	Cetus	Famous long period variable star. Mag varies between 3.0 & 10.1 over a year.	300
◉	M39	Cygnus	9° from Deneb.	1k
◉	χ Cygni	Cygnus	Mira type. Long period pulsating red giant. Magnitude varies between 3.3 & 14.2 over 407 days.	553
•	ν Draconis	Draco	White double stars. Excellent in binoculars.	98
⊕	M13	Hercules	Excellent globular. Discovered by Halley in 1714.	2.3k
⊕	M92	Hercules	Fainter and smaller than M13. Use a telescope to resolve its stars.	27k
◉	R Lyrae	Lyra	Semi-regular variable. Magnitude varies between 3.9 & 5.0 over 46.0 days.	298
•	ε Lyrae	Lyra	Famous Double Double. Binoculars show a double star. High power reveals each a double.	162
⊕	M12	Ophiuchus	Fainter and smaller than M13. Use a telescope to resolve its stars.	27k
⊕	M10	Ophiuchus	3 degrees from the fainter M12. Both may be glimpsed in binoculars.	14k

Binoculars Objects (Continued)				Light Years*
⊕	M15	Pegasus	Globular with a planetary nebula	30k
◉	Double Cluster	Perseus	Double Cluster in Perseus. NGC 869 & 884. Excellent in binoculars.	7.3k
◉	M34	Perseus	Many white dwarfs. Excellent in binoculars.	7.3k
◻	M8	Sagittarius	Lagoon Nebula.	5.2k
⊕	M22	Sagittarius	Excellent globular, better in telescope	10k
◉	M25	Sagittarius	Near teapots lid	1.9k
◉	NGC 253	Sculptor	Large, cigar-shaped galaxy. Requires dark sky.	11M
•	Mizar & Alcor	Ursa Major	Quadruple star system. Good eyesight or binoculars reveals 2 stars.	82
◉	CR 339	Vulpecula	Coat hanger	780