



**SKY MAP** November

**9:00pm: November 5**  
**8:00pm: November 20**  
**7:00pm: December 5**

Also can be used in the pre-dawn hours of July thru October.

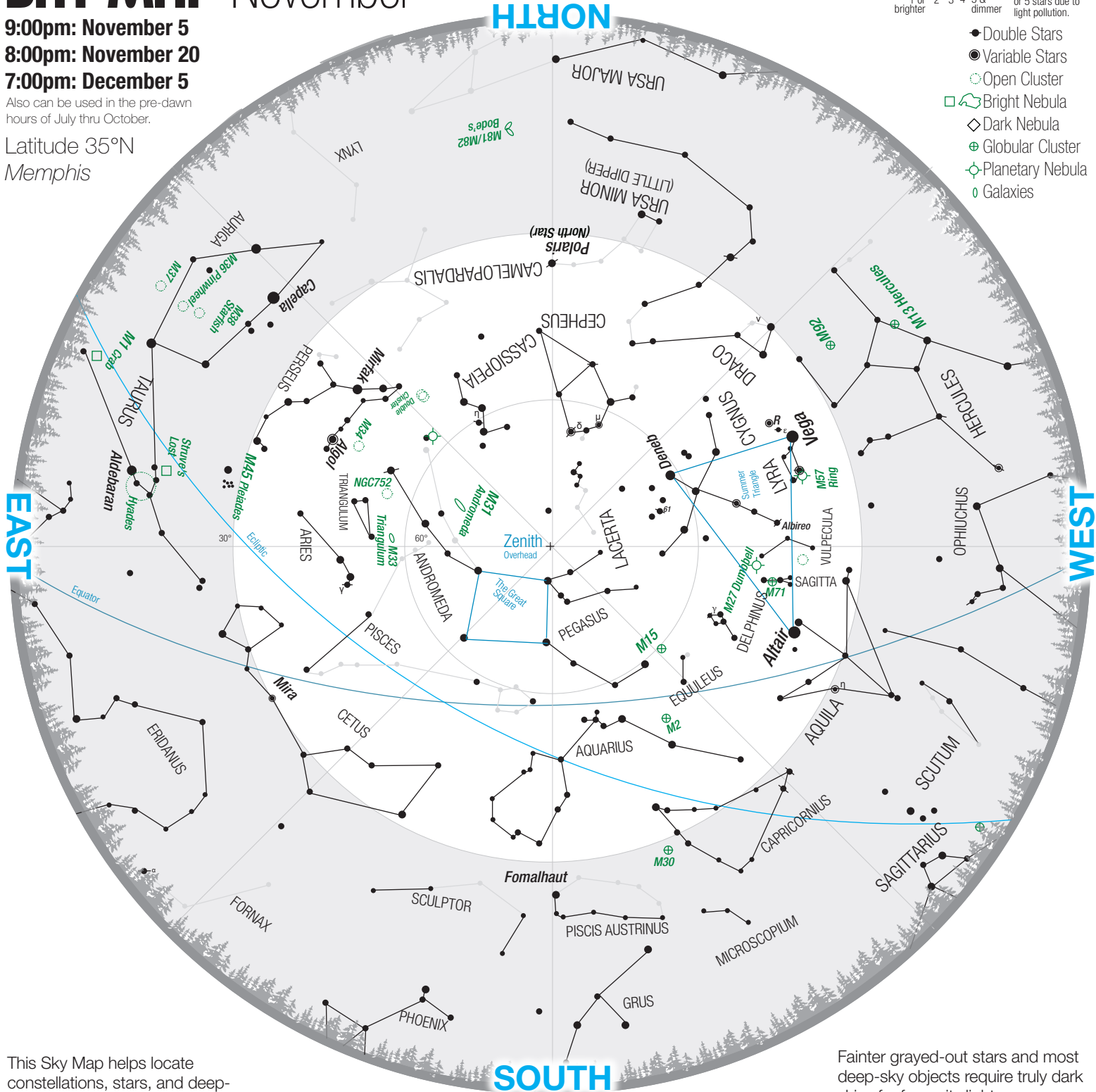
Latitude 35°N  
Memphis

Grey items will not be seen in light polluted cities

**Magnitude (Brightness)**  
Stars ● 1 or brighter ● 2 ● 3 ● 4 ● 5 & dimmer

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

In cities you may not be able to see magnitude 3, 4 or 5 stars due to light pollution.



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](http://memphisastro.org)).