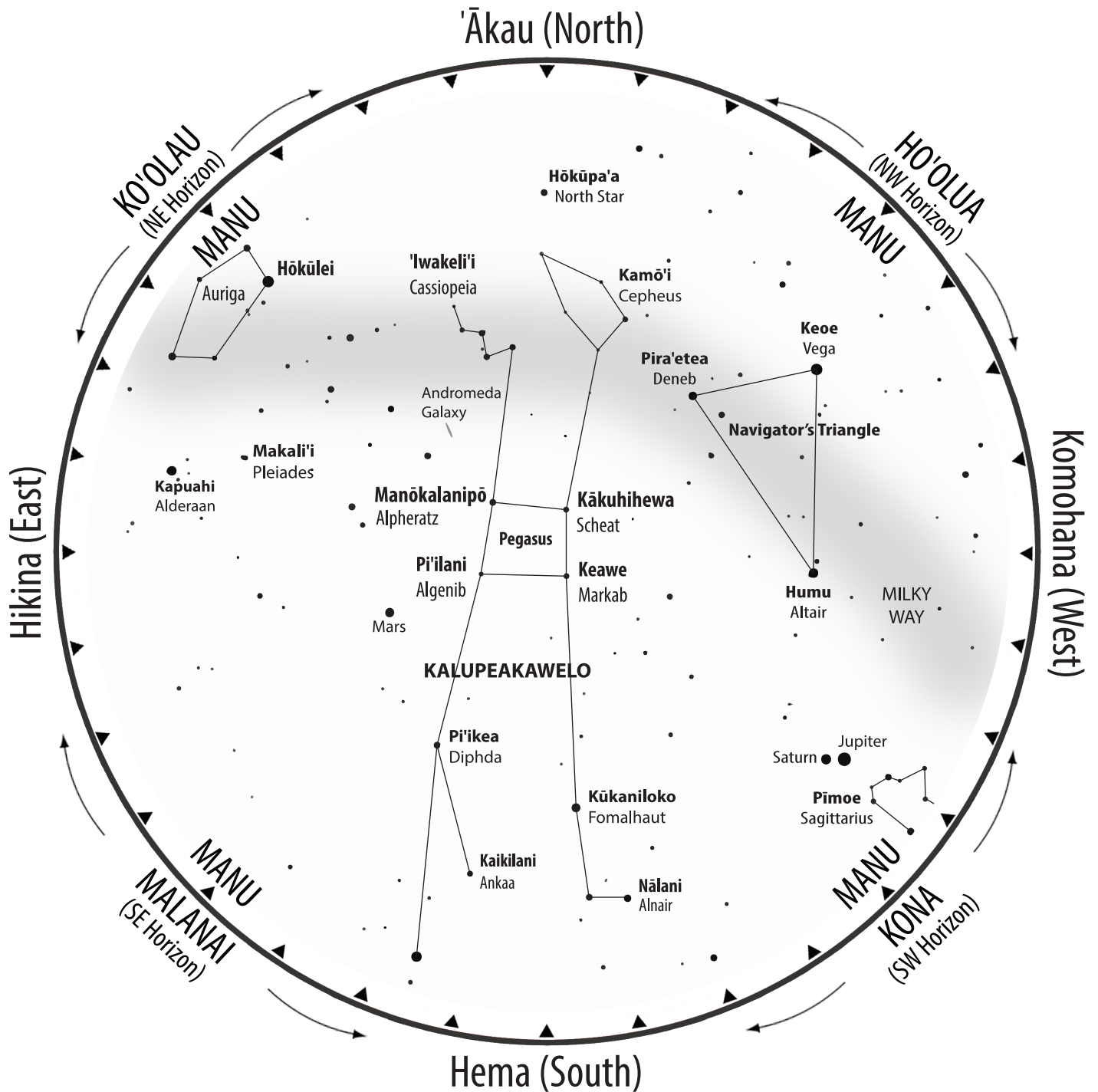


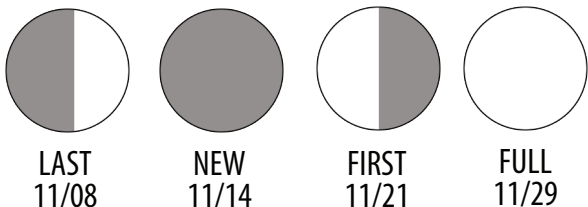
Nowemapa | November Skies at 8pm



This star chart incorporates the Hawaiian Star Compass and is oriented for an observer looking up and facing South. In this orientation, the Hikina (East) horizon is on the left and the Komohana (West) horizon is on the right.

This chart reflects the night sky over Hawai'i at 8pm.

November Moon Phases



November Highlights

- > **Leonids Meteor Shower** - Through mid-to-late November, the spectacular Leonids meteor shower will scatter our sky with shooting stars. These meteors come from the tale of the comet Tempel-Tuttle, a periodic comet which last swept through Earth's orbit in 1998. The peak of the shower will occur on Tuesday, November 17, with at least 10-15 meteors each hour.
- > **Penumbral Eclipse** - During the evening of November 29 the full moon may appear to be a bit darker in color as it enters the outer portions of Earth's shadow in a penumbral eclipse. Compared to the "blood moon" of full lunar eclipses, penumbral eclipses are significantly less dramatic, with the moon simply taking on a dark gray color.



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