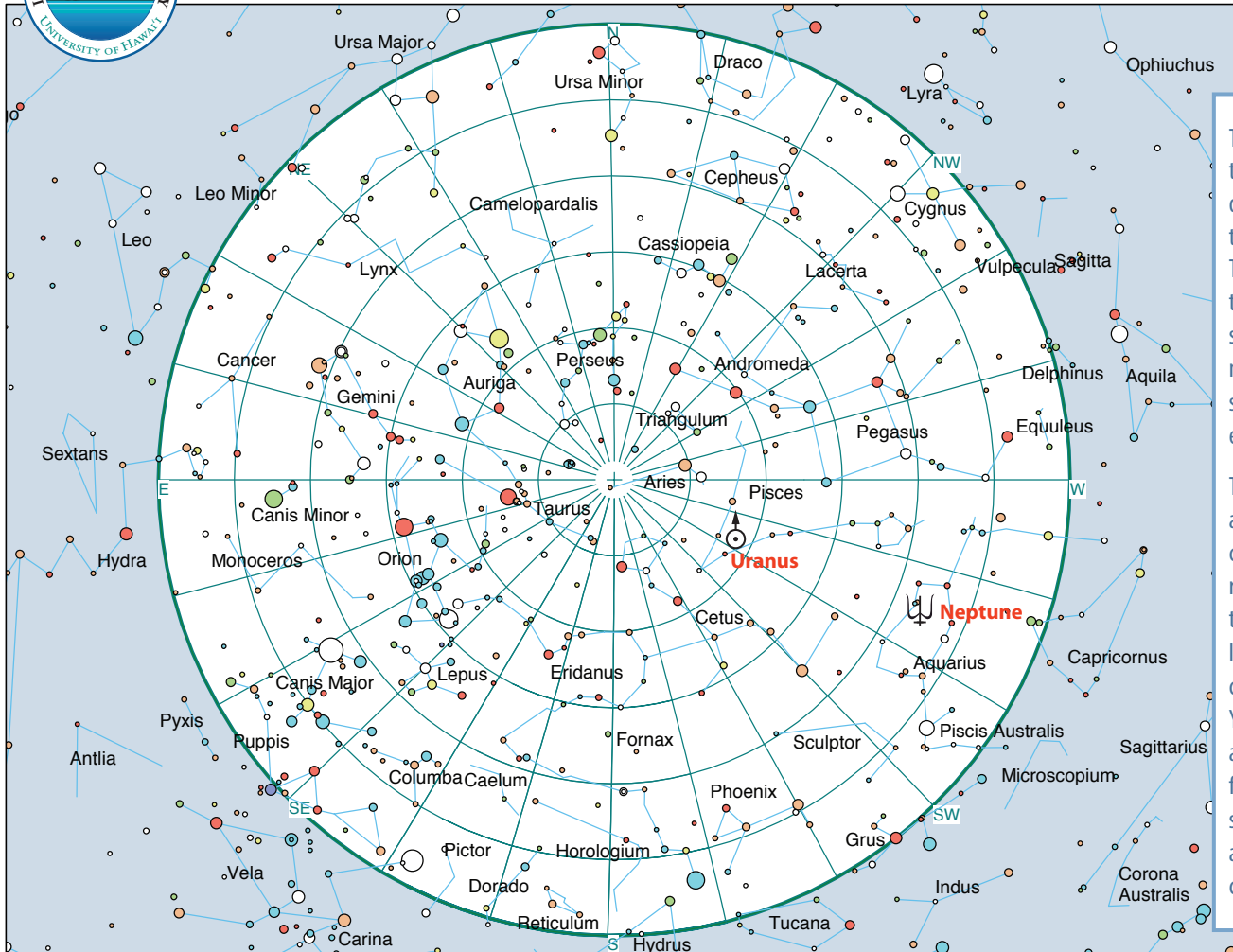




# Evening Skies Over Hawai'i December 2017



This star chart shows the zenith, the point directly overhead, at the center of the chart. The circle represents the horizon, so the stars outside it are not visible, although some may rise in the east later in the night.

To find constellations and stars, hold the chart overhead and rotate the page until the correct direction labeled on the horizon circle is ahead of you. You should now be able to look back and forth between the star chart and the sky, and match the constellations.

Honolulu 2017-12-15 10:00 p.m. C: 219h13m +21°20' L: +270°00' 0:90° ARC HZ Cat: BSC  
 On Dec. 1, the sky will appear as shown on the chart at about 11 p.m. On Dec. 31, it will appear as shown at about 9 p.m.

Produced using *Cartes du Ciel* Sky Charts program by Patrick Chevalley  
 This free program is available at <http://www.stargazing.net/astropcl>

Magnitude: 0 1 2 3 4      B-V: < -0.3 -0.1 0.2 0.5 0.8 1.3 >      Planets: Mercury Venus Mars Jupiter Saturn Uranus Neptune

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The star chart includes only the brightest stars to avoid cluttering the chart. The constellations are labeled, and the lines connecting their stars will help you find these celestial groupings.

Mercury is visible in the western sky just after sunset until about December 7 and reappears in the morning around December 19. Venus is still too close to the Sun. Mars and Jupiter are visible in the morning. Saturn becomes too close to the Sun to be seen beginning about December 6. Uranus is visible for more than half the night. Neptune is visible in the evening. Jupiter (the brighter object) is in conjunction with Mars in late December.

## December Moon Phases

- Full Moon Dec. 3
- Last Quarter Dec. 9
- New Moon Dec. 17
- First Quarter Dec. 25

## Join us for these 2017 special events

**O'ahu Events:** call (808) 956-8566.

**Maui Events:** call (808) 573-9516. Monthly Maikalani Community Lectures and can also be viewed online with live stream at <http://ps1puka.ps1.ifa.hawaii.edu/liveVideo.php>

**Hawaii Island Events:** see [www.mkaoc.org](http://www.mkaoc.org)

Monthly activities for the Friends of the Institute for Astronomy can be found at <http://www.ifa.hawaii.edu/friends/>  
 Institute for Astronomy Special Events are announced at <http://www.ifa.hawaii.edu/specialevents/>