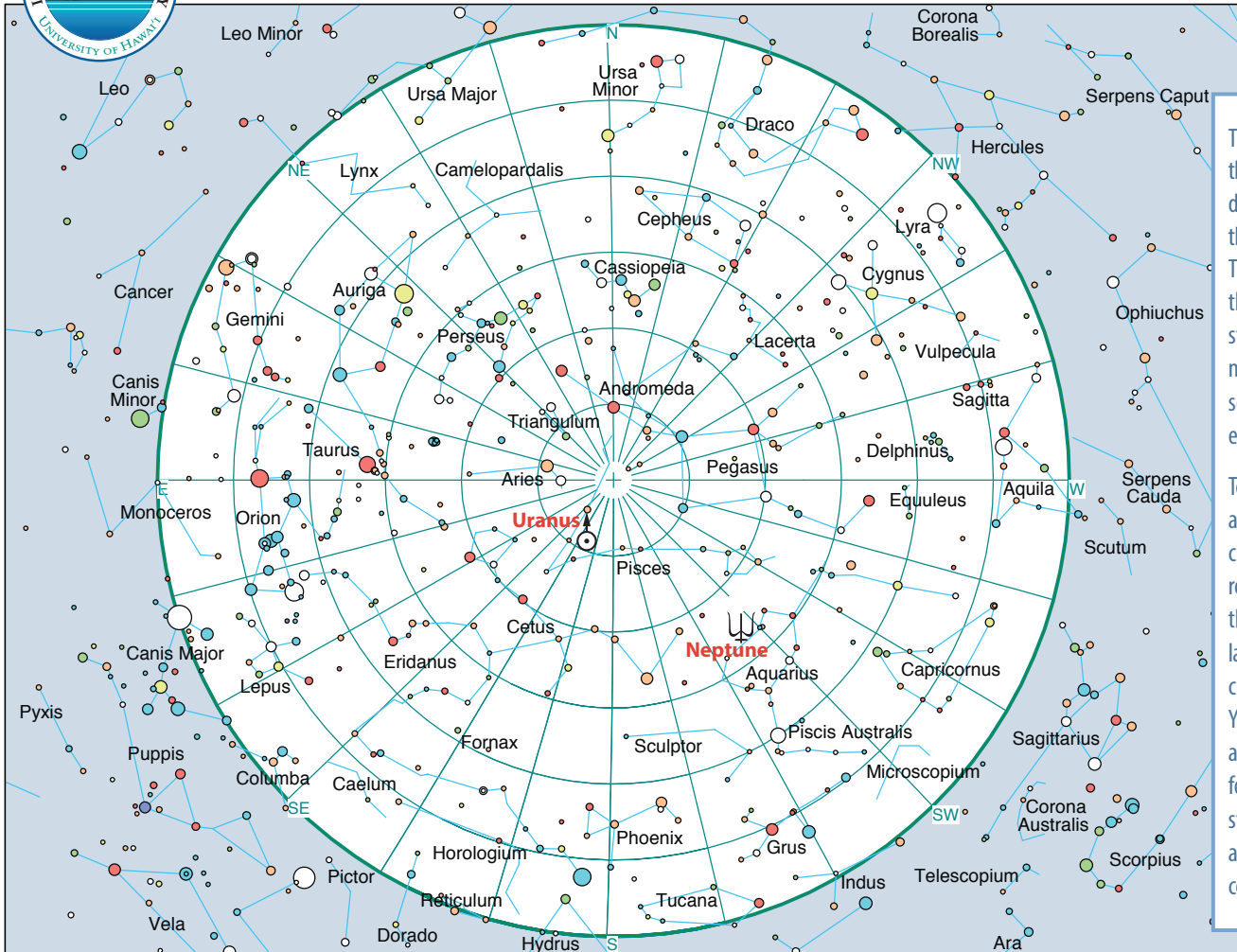




Evening Skies Over Hawai'i November 2017



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 2017-11-15 10:00 p.m. C: 219h13m +21°20' L: +270°00' 0:90° ARC HZ Cat: BSC
 On Nov 1, the sky will appear as shown on the chart at about 11 p.m. On Nov. 30, 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 evening. Venus is visible in the morning sky until about November 28, when it becomes too close to the Sun to be observed. Mars is visible in the morning. Jupiter reappears in the morning sky about November 9. Saturn is visible in the evening. Uranus and Neptune are visible for more than half the night. Jupiter is in conjunction with Venus (the brighter object) on November 13 and Saturn with Mercury (the brighter object) on November 28.

November Moon Phases

-  Full Moon Nov. 3
-  Last Quarter Nov. 10
-  New Moon Nov. 18
-  First Quarter Nov. 26

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 wit live stream at <http://ps1puka.ps1.ifa.hawaii.edu/liveVideo.php>

Hawaii Island Events: see 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/>