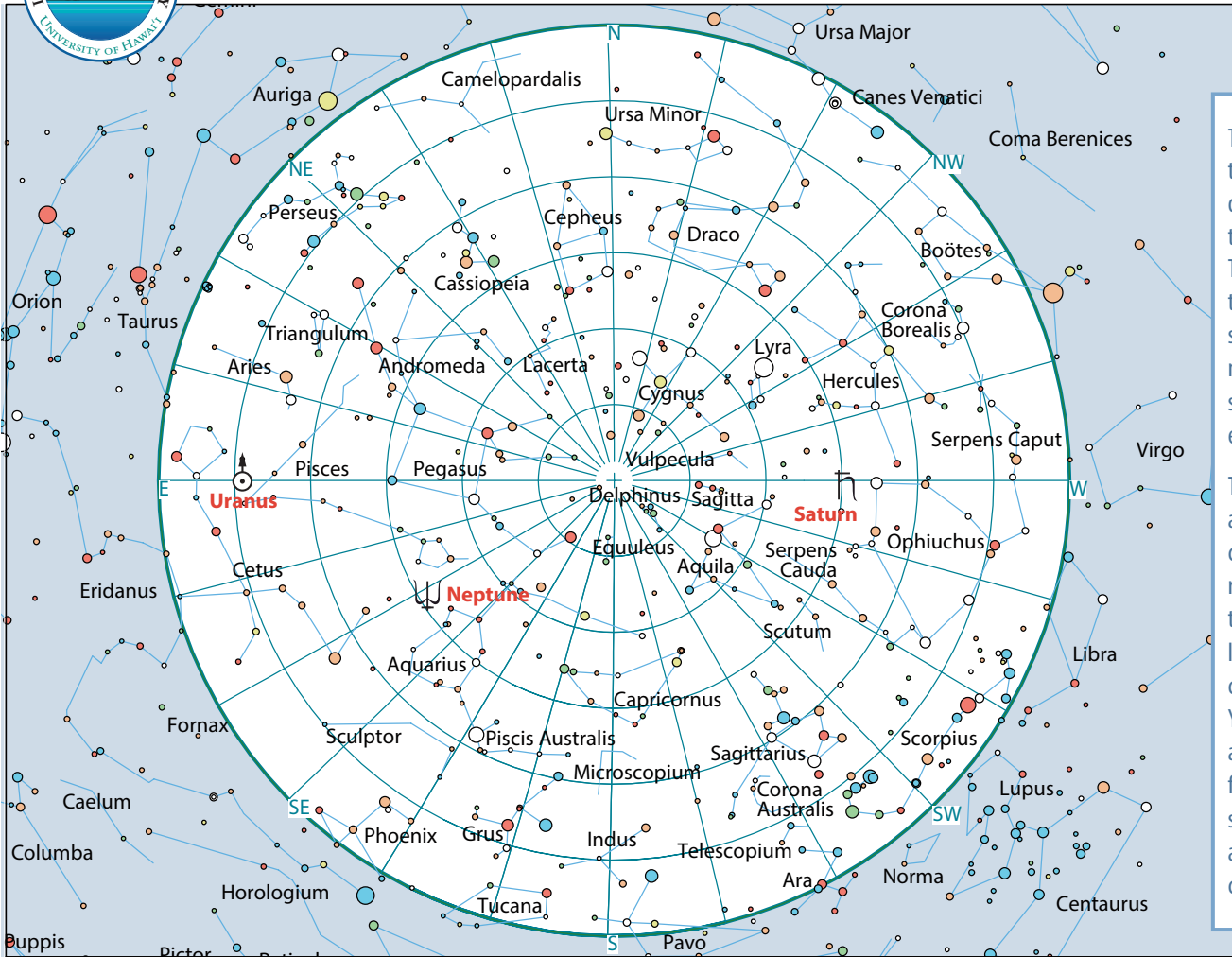




Evening Skies Over Hawai'i September 2017



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 2017-07-15 10:00 p.m. C: 219h13m +21°20' L: +270°00' O: 90° ARC HZ Cat: BSC
 On Sept 1, the sky will appear as shown on the chart at about 11 p.m. On Sept. 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 morning from about September 4 until about September 28. Venus is visible in the morning. Mars reappears in the morning sky about September 12. Jupiter and Saturn are visible in the evening. Uranus is visible in the morning, while Neptune is at opposition on September 5, so it is visible most of the night. Mars is in conjunction with Mercury (the brighter object) on September 16

September Moon Phases

- Full Moon Sept. 5
- Last Quarter Sept. 12
- New Moon Sept. 19
- First Quarter Sept. 27

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/>