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.

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 and Jupiter are visible in the evening until mid-August, when they get too close to the Sun. Venus reappears in the morning sky about August 20. Mars reappears in the morning about August 6. Saturn is visible in the evening. Uranus and Neptune are visible in the morning sky.

### August Moon Phases
- Last Quarter: August 6
- New Moon: August 14
- First Quarter: August 22
- Full Moon: August 29

### Join us for these 2015 special events
- **O’ahu Events:** call (808) 956-8566.
- **Mānoa Events:** Events and news for all islands are posted on our homepage: www.ifa.hawaii.edu. Follow our Press Releases at http://www.ifa.hawaii.edu/info/press-releases/
- **Maui Events:** call (808) 573-9516
- **Hawaii Island Events:** see www.mkaoc.org.

Malalo O Ka Po‘ani at the Mauna Kea Visitor Information Station at 6 p.m. Kau: Stories of the Summer Stars Stories of the stars, constellations, and other astronomical phenomena as seen from Hawai‘i in the summertime.

Some of the most exciting science in the world is happening at the Institute for Astronomy (IfA), and you can be part of it! IfA scientists conduct research into galaxies, cosmology, stars, planets, and the Sun, as well as teaching undergraduate and graduate students at the University of Hawaii. We invite you to become part of the Friends and explore our amazing universe.

Monthly activities for the Friends of the Institute for Astronomy can be found at [http://www.ifa.hawaii.edu/friends/](http://www.ifa.hawaii.edu/friends/)

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Nā Kilo Hōkū, our newsletter is online: [http://www2.ifa.hawaii.edu/newsletters/](http://www2.ifa.hawaii.edu/newsletters/)