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 23. Venus, Mars, and Neptune are visible in the evening. Jupiter is visible in the morning. Saturn reappears in the morning sky beginning December 28. Uranus is visible for more than half the night.

December Moon Phases

- First Quarter: December 6
- Full Moon: December 13
- Last Quarter: December 20
- New Moon: December 28

### Join us for these special events

**O‘ahu Events:** call (808) 956-8566. UH Institute for Astronomy Open House April 17.

**Maui Events:** call (808) 573-9516

Maikalani Community Lectures occur one Friday per month at the Maikalani building in Pukalani.

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

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/)

Institute for Astronomy Special Events are announced at [http://www.ifa.hawaii.edu/specialevents/](http://www.ifa.hawaii.edu/specialevents/)