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.

The Planets table gives positions on the sky (in astronomical right ascension and declination), their apparent magnitude, the time they rise, reach culmination (their highest point in the sky), and when they set. Mercury is visible in the evenings until about April 20. Venus is visible in the West in the early evening. Mars is visible in the evening. Jupiter is visible in the morning. Saturn is visible in the evening. If you have a telescope, you will be able to see Uranus and Neptune before sunrise.

### March Moon Phases

- **Full Moon** April 28
- **Last Quarter** April 5
- **New Moon** April 14
- **First Quarter** April 21

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### Object | R.A. | Dec. | Mag. | Rise | Culmination | Set
--- | --- | --- | --- | --- | --- | ---
Mercury | 2h 34m | +18° 20' | 1.3 | 6h 30m | 12h 52m | 19h 13m
Venus | 3h 00m | +17° 10' | -3.9 | 6h 57m | 13h 18m | 19h 38m
Mars | 8h 38m | +21° 02' | 0.5 | 12h 31m | 18h 56m | 1h 20m
Jupiter | 23h 26m | -04° 46' | -2.1 | 3h 45m | 9h 43m | 5h 41m
Saturn | 12h 02m | +02° 37' | 0.8 | 16h 14m | 22h 19m | 4h 24m
Uranus | 23h 54m | -01° 27' | 5.9 | 4h 10m | 10h 11m | 16h 12m
Neptune | 22h 01m | -12° 35' | 7.9 | 2h 29m | 8h 18m | 14h 08m

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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/)

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Honolulu 2010-4-15 10:00 p.m. C: 21h16m +21°20' L:+270°00' O:90° ARC HZ  Cat: BSC
On April 1, the sky will appear as shown on the chart at about 11 p.m. On April 30, it will appear as shown at about 9 p.m.

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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Produced using Cartes du Ciel Sky Charts program by Patrick Chevalley
This free program is available at [http://www.stargazing.net/astropc/](http://www.stargazing.net/astropc/)

Teramura April 2010

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Evening Skies Over Hawai’i April 2010

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star charts are available only online at [www.ifa.hawaii.edu/publications/starcharts/](http://www.ifa.hawaii.edu/publications/starcharts/)