

# November 2012 Skies

Date	Event
Thursday, Nov 1	Ka'āwela (Jupiter) 1° north of the Moon
Saturday, Nov 3	Taurid Meteor Shower
Sunday, Nov 4	Daylight Savings Time Ends (Fall back one hour – US Mainland)
Tuesday, Nov 6	Kāloakūkahi (Last Quarter Moon) at 2:35pm HST
Sunday, Nov 11	Hōkūloa (Venus) 5° north of the Moon
Monday, Nov 12	Makulu (Saturn) 4° north of the Moon
Tuesday, Nov 13	Muku (New Moon) at 12:08pm HST
Friday, Nov 16	Hōkū'ulapīna'au (Mars) 2° south of the Moon
Saturday, Nov 17	Leonid Meteor Shower Ukialialī'i (Mercury) in inferior conjunction
Tuesday, Nov 20	Olekūkahi (First Quarter Moon) at 4:31am HST
Tuesday, Nov 27	Hōkūloa (Venus) 1° south of Makulu (Saturn)
Wednesday, Nov 28	Hoku (Full Moon) at 4:46am HST

## November 2012 Highlights

Mercury is in the eastern sky just after sunrise the last week of the month. Look for it on the 30th when it will be in a nice line with Saturn and Venus.

Venus is rising around 3am or so in the East – it is a brilliant morning in Leo this month. Look for it on the 11th when a thin crescent Moon will be directly south of it in the sky.

Mars is very low in the southwest at sunset, you might be able to catch a glimpse of it within 30 minutes of sunset.

Jupiter rises in the east around 8pm. Look for it in the constellation of Taurus, and try seeing the Galilean Moons with binoculars.

Saturn re-emerges in the morning sky this month. Watch for it the last week of the month when it will be near Venus in the early morning sky.

The Taurid Meteor Shower peaks on the morning of the 4th. It is associated with Comet Enke and typically has rates of 5-10 meteors per hour. Taurus rises around 9pm in November, so you can look for these in the late evening hours.

The Leonid Meteor Shower peaks on the morning of the 17th. The shower is associated with comet Temple-Tuttle, and usually has 15-20 meteors per hour at its peak. Roughly every 33 years it storms having up to many thousands of meteors per hour. The last major storm was in 1999/2000. The best time to look is in the early morning sky around 4am.



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# November Sky Chart

