

## September 2013 Skies

Date	Event
Monday, Sept 2	Hökū'ulapīna'au (Mars) 6° north of the Moon
Thursday, Sept 5	Muku (New Moon) at 1:36am HST
Sunday, Sept 8	Hökūloa (Venus) 0.5° north of the Moon
Monday, Sept 9	Makulu (Saturn) 2° north of the Moon
Thursday, Sept 12	Olekūkahi (First Quarter Moon) at 7:08am HST
Thursday, Sept 19	Hoku (Full Moon) at 1:13am HST Hökūloa (Venus) 4° south of Makulu (Saturn)
Sunday, Sept 22	Autumnal (Fall) Equinox at 10:44am HST
Thursday, Sept 26	Kāloakūkahi (Last Quarter Moon) at 5:56pm HST
Saturday, Sept 28	Ka'āwela (Jupiter) 5° north of the Moon

## September 2013 Highlights

Mercury is low in the western sky the last week of the month.

Venus is low in the western sky this month at sunset. On the 8th it makes a very near pass with the Moon. Look for it getting nearer to Saturn, which both will have the closest approach on the 19th.

Mars is getting higher in the morning sky in the east this month.

Jupiter is in the eastern sky rising around 2am.

Saturn is in the southwest at sunset, and gets lower as the month progresses.

The Autumnal (Fall) Equinox occurs on the 22nd of the month. At the equinox we experience equal day and equal night (12 hours of each). The Fall and Spring Equinoxes are the only two days of the year when the Sun rises directly East and sets directly West. Both hemispheres of the Earth receive the same amount of sunlight. Equinoxes and solstices are celebrated by many cultures around the world as they mark critical times for agriculture.



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# September Sky Chart

