

2011—Astronomically Handy Sky Calendar from Doug Snyder—2011
SKY Phenomena Calendar for TIME ZONE MST and NO DST (ARIZONA, USA)*

January 2011

HIGHLIGHT: Quadrantid Meteors

01 Sa New Year's Day
 04 Tu **Quadrantid** Meteors Peak—
 view morning of the 4th**
 04 Tu ● New Moon 0203 hrs.
 08 Sa Venus, greatest elong. W (47°)
 0900hrs.; magnitude -4.4
 09 Su Merc., elong. W. (23°), 0800h.
 09 Su **Dbl. Satellite Tr.-J**; 2049hrs.
 12 We ☽ First Quarter Moon 0431 hrs.
 19 We ☾ Full Moon 1421 hrs.
 26 We ☾ Last Quarter Moon 0557 hrs.

February 2011

HIGHLIGHT: Zodiacal Light in West

02 We ● New Moon 1931 hrs.
 04 Fr **Occultation** of magnitude
 11.5 star by MP (2709) Sagan
 at 2331hrs in Cancer (predicted)
 08 Tu **α Centaurid** meteors,
 0500hrs.; favorable year
 11 Fr ☽ First Quarter Moon 0018 hrs.
 18 Fr ☾ Full Moon 0136 hrs.
 20 Su Zodiacal Lt. in W., pm, 2 wks;
 Look for Gegenschein at midnite
 24 Th ☾ Last Quarter Moon 0251 hrs.

March 2011

HIGHLIGHT: Mercury at dusk

03 Th **Perihelion** of Comet P/2003 S2
 (NEAT) on date 3.52 UT
 04 Fr ● New Moon 1346 hrs
 12 Sa ☽ First Quarter Moon 1645 hrs.
 19 Sa ☾ Full Moon 1110 hrs.; largest
 of 2011; @perigee 1200hrs
 20 Su Vernal **Equinox**, 1621 hrs.
 21 Mo Zodiacal Lt. in W, pm, 2 wks
 22 Tu Merc. elong. E.(19°) 1800hrs.
 26 Sa ☾ Last Quarter Moon 0507 hrs.
26 Sa Kartchner Caverns Star Night

April 2011

HIGHLIGHT: Saturn at opposition

03 Su ● New Moon 0732 hrs.
 03 Su **Saturn** @ opposition, 1700hrs.
 magnitude +0.4, disk size 19";
 with rings, size 44"; tilted 8.7°;
 72 light-minutes from Earth
 11 Mo ☽ First Quarter Moon 0505 hrs
 17 Su ☾ Full Moon 2043 hrs.
 22 Fr Lyrid Meteors Pk (77%moon);
 Unfavorable year for Lyrids
 24 Su EASTER Sunday
 24 Su ☾ Last Quarter Moon 1947 hrs.

May 2011

**HIGHLIGHTS: Int'l Astronomy Day!
 + Morning Planets grand show**

02 Mo ● New Moon 2351 hrs.
 06 Fr η (eta)-Aquarid meteors Pk,
 0500hrs.; favorable year
 07 Sa **International Astronomy Day**
 07 Sa Merc. elong. W. (27°), 1200h.
 10 Tu ☽ First Quarter Moon 1333 hrs.
 11-12 Mercury, V., Mars & J. ; **am**
conjunction; best of 2011
 17 Tu ☾ Full Moon 0409 hrs.
 24 Tu ☾ Last Quarter Moon 1152 hrs.

June 2011

HIGHLIGHT: Saturn & double star

01 We ● New Moon 1403 hrs.
 08 We ☽ First Quarter Moon 1911 hrs.
 09 Th Saturn 15' (arc min) from
 nice dbl.star Porrima (Virgo);
 2100h; magnitudes 3.5, 3.5
 15 We ☾ Full Moon 1314 hrs.
 21 Tu **Solstice** 1016 hrs.
 23 Th ☾ Last Quarter Moon 0448 hrs.
 27 Mo June Boötids meteors; 12%
 Moon; low speed; activity?
 27 Mo Pluto at opposition, 1800 hrs.

July 2011

HIGHLIGHT: S. δ Aquarids meteors

01 Fr ● New Moon 0154 hrs.
 04.47 Perihelion date of Comet 123P
 /West-Hartley; 7.6 year orbit
 07 Th ☽ First Quarter Moon 2329 hrs.
 14 Th ☾ Full Moon 2340 hrs.
 19 Tu Merc. greatest elong. E.(27°)
 (evening visibility)
 22 Fr ☾ Last Quarter Moon 2202 hrs.
 29 Fr **S. delta-Aquarids** meteors,
 0600hrs.; medium speed; very
 favorable; some leave trains
 30 Sa ● New Moon 1140 hrs.

August 2011

HIGHLIGHT: Naked Eye Asteroid (MP)

05 Fr (4) Vesta at opposition; 5.6
 magnitude; 0300h.; Capricornus
 06 Sa ☽ First Quarter Moon 0408 hrs.
 13 Sa Perseid Meteors (major
 moon interference— 100%)
 13 Sa ☾ Full Moon 1157 hrs.; known
 as Moon Of The Green Corn
 21 Su ☾ Last Quarter Moon 1454 hrs.
 22 Mo Neptune @opposition 1600hr.
 disk size 2.3", 4.0 Light-
 hours distant
 28 Su ● New Moon 2004 hrs.

September 2011

HIGHLIGHT: Mercury in the morning

01 Th α Aurigid Meteors Pk 0430h.
 favorable year, but activity is ?
02 Fr Merc. greatest elong.W.(18°)
 04 Su ☽ First Quarter Moon 1039 hrs.
 12 Mo ☾ Full Moon 0227 hrs.
 20 Tu ☾ Last Quarter Moon 0639 hrs.
 23 Fr Autumn Equinox 0206 hrs.
24 Sa Kartchner Caverns Star Night
 25 Su Uranus @ opposition, 1700hrs;
 disk size 3.7", mag. 5.7
 25 Su Zodiacal Lt, East, am, 2 wks
 27 Tu ● New Moon 0409 hrs

October 2011

HIGHLIGHT: Jupiter at opposition

01 Sa Astronomy Day(Fall Version)
 03 Mo ☽ First Quarter Moon 2015 hrs.
 08 Sa **Draconid** meteors; MS 0300h
 11 Tu ☾ Full Moon 1906hrs.(smallest
 Of 2011)
 19 We ☾ Last Quarter Moon 2030hrs.
 21 Fr Orionid meteors;(45% Moon)
 24 Mo Zodiacal Light, East, am, 2 wks.
 26 We ● New Moon 1256hrs
 28 Fr **Jupiter@ opposition**, 1900hr;
 disk size 49.6"; mag. -2.9

November 2011

HIGHLIGHT: Meteor Showers**

01 Tu Venus/Mercury 2°apart, 1800h.
 02 We ☽ First Quarter Moon 0938 hrs.
 05 Sa **Taurid meteors**; MS 0200h.
 10 Th Mars 1.4°N. of Regulus, 0300h
 10 Th ☾ Full Moon 1316 hrs.
 14 Mo Merc. greatest elong. E (23°)
 18 Fr Leonid meteors— 60% Moon
 18 Fr ☾ Last Quarter Moon 0809 hrs
 23.28 Perihelion date of Comet Larson
 (P/2004 H3); 7.7 year orbit
 24 Th ● New Moon 2310 hrs.

December 2011

HIGHLIGHT: Lunar Eclipse on 12/10

02 Fr ☽ First Quarter Moon 0252 hrs.
 10 Sa ☾ Full Moon 0736 hrs.
Lunar Eclipse; visible from 0433h
 until MoonSet at ~0711hrs.
 14 We Geminid meteors; 84% Moon
 17 Sa ☾ Last Quarter Moon 1748 hrs.
 21 We Solstice 2230 hrs.
 23 Fr **Ursid meteors**; favorable**
 24 Sa ● New Moon 1106 hrs.
 29.59 Perihelion date of Comet 36P
 (Whipple); 8.5 year orbit

*Times/ Dates=Mountain Standard Time, NO DST (UT-7hrs); **updates/more details @:** www.hacastronomy.com; Ver2011.DS1
Abbr: Tr=transit; Pk=Peak; Merc=Mercury; E=East W=West; S=South; N=North; J=Jupiter; V=Venus; " =arc seconds;
 Elong=elongation; hrs., h.=hours (24 hour system); MP=Minor Planet; MS=Moon Set; wks=weeks; Lt=Light; pm=evening
 PO=Patterson Observatory; **meteor shower dates reflect predicted Peak Morning, but Moon may still be present; am=morning
 DUTS: Dine Under The Stars; **bold text**=possibly a promising/worthy event or activity; complier: Doug Snyder (HAC)