

IYA 2009—An Astronomy Sky Calendar—IYA2009

Regional Phenomena Calendar for time zone MST and NO DST (Arizona, USA)

CELEBRATE IYA2009 ALL YEAR!		
<p>January '09 HIGHLIGHT: Quadrantid Meteors 01 Th New Year's Day (Holiday) 03 Sat Quadrantid Meteors Pk at 0600 hrs MST (1300 UT) 04 Su , First Quarter Moon 0456 hrs. Merc. greatest elong E. (19°) 0700hrs. Note: when East.=evening planet; When W.=morning planet 10 Sa • Full Moon 2027 hrs. (largest of 2009) 14 We Venus greatest elong.E (47°)1400hrs 17 Sa f Last Quarter Moon 2046 hrs. 26 Mo ~ <u>New Moon 0055 hrs.</u> Annular Solar Eclipse (not visible MST)</p>	<p>February '09 HIGHLIGHT: Comet C/2007 N3 02 Mo , First Quarter Moon 1613 hrs 09 Mo • Full Moon 0749 hrs Penumbral Lunar Eclipse at moonset; Pk's at 0738 MST 12 Th Zodiacal Light in W. next 2 wks after evening twilight 13 Fr Merc. greatest elong. W. (26°) 16 Mo f Last Quarter Moon 1437 hrs. 19 Th <u>Venus</u> at mag. -4.8! in W. 24 Tu ~ <u>New Moon 1835 hrs</u> Comet C/2007 N3 (Lulin) at mag. 6 in Virgo. 25 We Ceres at opposition; at mag. 6.9 in Leo; closest since 1857</p>	<p>March '09 HIGHLIGHT: SATURN PARTICIPATE IN A MESSIER MARATHON 2009! 04 We , First Quarter Moon 0046 hrs 08 Su Saturn at opposition 1300 hrs. size: 19.7", mag. +0.5; rings inclined 2.57° towards Earth 10 Tu • Full Moon 1938 hrs 13 Fr Zodiacal Light in W. next 2 wks after evening twilight 18 We f Last Quarter Moon 1047 hrs. 20 Fr Equinox, 0444 hrs.(Spring begins) 26 Th ~ <u>New Moon 0906 hrs</u> 28 Sa Best Messier Marathon opportunity; Try for all 110 objects near Arizona City, AZ (SAC Site)</p>
<p>April '09 HIGHLIGHT: Lyrid Meteors, Venus occ. 02 Th , First Quarter Moon 0734 hrs. 9 Th • Full Moon 0756 hrs 12 Su Easter Sunday 17 Fr f Last Quarter Moon 0636 hrs. 22 We Lyrid Meteors Pk 0300 hrs.; favorable year for shower. 22 We Occultation of Venus by the waning Moon just after 0500 hrs.; difficult-both objects low in E. sky; occurs in Pisces; find & follow Venus 24 Fr ~ <u>New Moon 2023 hrs</u> 26 Su Merc. greatest elong. E. (20°);0100h.</p>	<p>May '09 HIGHLIGHT: Astronomy Day 2009 01 Fr , First Quarter Moon 1344 hrs. 02 Sa IYA2009—Global ASTRONOMY DAY Venus greatest illumination 0800h. 05 Tu η-Aquarid Meteors Pk 1700 hrs Not favorable—moonlight 08 Fr • Full Moon 2101 hrs 17 Su f Last Quarter Moon 0026 hrs. Dbl. Shadow Tr. J. , 0056hrs 24 Su ~ <u>New Moon 0511 hrs</u> 30 Sa , First Quarter Moon 2022 hrs</p>	<p>June '09 HIGHLIGHT: Jupiter & its moons 01 Mo Dbl. Shadow Tr., J.; 2312 hrs. 05 Fr Venus greatest elong.W. (46°) 1400h. 07 Su • Full Moon 1112 hrs. 09 Tu Dbl. Shadow Tr., J.; 0106 hrs. 13 Sa Merc. greatest elong. W.(23°), 0500h. 15 Mo f Last Quarter Moon. 1515 hrs. 16 Tu Dbl. Shadow Tr., J.; 0339 hrs. 20 Sa Summer Solstice 2246 hrs. 22 Mo ~ <u>New Moon, 1235 hrs.</u> 23 Tu Pluto at opposition, 0100 hrs. 29 Mo , First Quarter Moon 0428 hrs.</p>
<p>July '09 HIGHLIGHT: Summer Milky Way 7 Tu • Full Moon 0221hrs; smallest in '09 Penumbral lunar eclipse; almost invisible in MST; max. at 0239hrs. 15 We f Last Quarter Moon 0253 hrs. 21 Tu ~ <u>New Moon 1935 hrs.</u> Total Solar Eclipse— East Asia; Very long totality at max. (over six minutes); <u>Not visible in U.S.</u> 28 Tu , First Quarter Moon 1500 hrs. S. d Aquarid Meteors pk 2000h. Favorable after mid-night</p>	<p>August '09 HIGHLIGHT: Saturn's waning Rings 05 We Pen. lunar eclipse; ending near Moon rise; sorry 05 We • Full Moon 1755 hrs. 12 We Perseid Meteors Pk. 1100hrs; 13 Th f Last Quarter Moon 1155 hrs 14 Fr Jupiter at opposition;1100hrs. 17 Mo Neptune at opposition,1400h. 20 Th ~ <u>New Moon 0302 hrs.</u> 24 Mo Merc.greatest elong. E. (27°) 26 We Dbl.Shadow Tr, J., 1942hrs. 27 Th , First Quarter Moon 0442 hrs</p>	<p>September '09 HIGHLIGHT: Saturn's ring angle at 0.0° 02 We Dbl. Shadow Tr. J., 2343 hrs. 04 Fr • Full Moon 0903 hrs 11 Fr , Last Quarter Moon 1916 hrs. 16 We Zodiacal Lt. in E. before morning twilight for 2 wks. 17 Th Uranus at opposition, 0300 hrs. 18 Fr ~ <u>New Moon 1144 hrs.</u> 21 Mo Asteroid (3)Juno at opposition, 0100hrs.; in Pisces, mag. 7.6 22 Tu Equinox (Autumnal) 1419 hrs. 25 Fr , First Quarter Moon 2150 hrs.</p>
<p>October '09 HIGHLIGHT: Orionid Meteor shower 03 Sa • Full Moon 2310 hrs. 05 Mo Merc. greatest elong.W.(18°),1900h. 08 Th Draconid meteors Pk., 0000hrs; not a favorable prediction this year. 11 Tu f Last Quarter Moon 0156 hrs. 15 Th Zodiacal Lt. in E. before morning Twilight for 2 wks. 17 Sa ~ <u>New Moon 2233 hrs.</u> 21 We Orionid Meteors Pk., 0300; very favorable return this year. 25 Su , First Quarter Moon 1742hrs.</p>	<p>November '09 HIGHLIGHT: Meteor Showers (3) 01 Su MARS crosses into M44,0100hrs. 02 Mo • Full Moon 1214 hrs 05 Th S.Taurids Meteors Pk 0300hrs 09 Mo f Last Quarter Moon 0856hrs 12 Th N.Taurids Meteors Pk 0300h. 16 Mo ~ <u>New Moon 1214 hrs.</u> 17 Tu Leonid Meteors Pk 0030h.? very favorable 11- 17/18. 21 Sa Alpha Monocerotids Meteors Pk; favorable after midnight 24 Tu , First Quarter Moon 1439 hrs.</p>	<p>December '09 HIGHLIGHT: Geminid Meteor Shower 02 We • Full Moon 0030 hrs 08 Tu f Last Quarter Moon 1713hrs 13 Su Geminid Meteors Pk. 2200 hrs.; very favorable prediction for '09 16 We ~ <u>New Moon 0502 hrs.</u> 18 Fr Merc. greatest elong.E.(20°),1000h. 20 Su Dbl. Shadow Tr., J., 1834 hrs. 21 Mo Solstice, (Winter begins) 1047hrs. 22 Tu Ursid Meteors Pk.; 0700 hrs. favorable after mid-night. 24 Th , First Quarter Moon 1036 hrs. 31 Th • Full Moon 1213 hrs (Blue Moon)</p>

*Times/ Dates= Mountain Standard Time, no DST (UT-7hrs); updated at www.astronomyyear2009.com; Doug Snyder
 Abbr: Tr=transit; Pk=Peak; Merc=Mercury; E.=East; W.=West; S.=South; N=North; J.=Jupiter; V.=Venus; Sat.=Saturn
 elong.=elongation; Pen.= Penumbral; hrs., h.= hours (24 hour system); wks. = weeks; Lt.=Light. Ver.2009V1.0