IYA2009—An Astronomy Sky Calendar—IYA2009

Astronomical Phenomena Calendar for Time Zone EST/EDT (Eastern U.S. Time)*

FOLKS— CELEBRATE IYA2009!

January '09

HIGHLITE: Quadrantid Meteors

01 Th New Year's Day
03 Sat **Quadrantid Meteors Pk at 0800 EST;** very favorable outlook
04 Su , First Quarter Moon 0656 hrs.
Merc. greatest elong E.(19°) 1400hrs.
Note: when East., =evening planet;
When W., =morning planet
10 Sa • Full Moon 2227 hrs. (largest of 2009)
14 We **Venus** greatest elong.E (47°)1600hrs
17 Sa ƒ Last Quarter Moon 2146 hrs.
26 Mo ˜ New Moon 0255 hrs.
Annular Solar Eclipse (not visible in time zone EST).

February '09

HIGHLITE: Comet C/2007 N3

02 Mo , First Quarter Moon 1813 hrs
09 Mo • Full Moon 0949 hrs
Penumbral Lunar Eclipse
(mostly not visible in TZ EST,
or may be visible at moon set)
12 Th Zodiacal Light in W. next 2 wks after evening twilight
13 Fr Merc. greatest elong. W. (26°)
16 Mo ƒ Last Quarter Moon 1637 hrs.
19 Th **Venus at** mag. -4.8! in W.
24 Tu ˜ New Moon 2035 hrs
Comet C/2007 N3 (Lulin)
at mag. 6 in Virgo.
25 We **Ceres** at opposition; at mag. 6.9 in Leo; closest since 1857

March '09

HIGHLITE: SATURN

PARTICIPATE IN A MESSIER MARATHON 2009!

04 We , First Quarter Moon 0746 hrs
8 Su **DaylightSavingsTime(EDT = –4UT)**
Saturn at opposition 1600 hrs.;
size: 19.7", mag. +0.5
11 We • Full Moon 2238 hrs
Dbl.Shadow Tr. J., 0003 hrs.
13 Fr Zodiacal Light in W. next 2 wks after evening twilight
18 We ƒ Last Quarter Moon 1347 hrs.
20 Fr **Equinox,** 0744 hrs.(Spring begins in N. hemisphere)
26 Th ˜ New Moon 1206 hrs
28 Sa Best Messier Marathon opportunity; dusk-to-dawn deep sky viewing

April '09

HIGHLITE: Lyrid Meteors

02 Th , First Quarter Moon 1034 hrs.
9 Th • Full Moon 1056 hrs
12 Su Easter Sunday
15 We Mars 0.5° S. of Uranus, 0000 hrs.
17 Fr ƒ Last Quarter Moon 0936 hrs.
22 We **Lyrid Meteors** Pk 0600 hrs.; swift, some very bright with trails; favorable year for this shower.
22 We Daytime EDT occ. of Venus by Moon
24 Fr ˜ New Moon 2323 hrs
26 Su Merc. greatest elong. E. (20°);0400h. best evening view of 2009.

May '09

HIGHLITE: Astronomy Day 2009

01 Fr , First Quarter Moon 1644 hrs.
02 Sa IYA2009 INT'L ASTRONOMY DAY
2 Venus greatest illumination 1100 hrs.; magnitude –4.7
06 We η–Aquarid Meteors Pk2000 hrs Not favorable—moonlight
09 Sa • Full Moon 0001 hrs.
17 Su ƒ Last Quarter Moon 0326 hrs.
24 Su ˜ New Moon 0811 hrs.
30 Sa , First Quarter Moon 2322 hrs

June '09

HIGHLITE: The Plutoid Pluto

02 Tu **Dbl. Shadow Tr., J.; 0212 hrs.**
05 Fr Venus greatest elong.W. (46°) 1700h.
07 Su • Full Moon 1412 hrs.
13 Sa Merc. greatest elong. W.(23°), 0800h.
15 Mo ƒ Last Quarter Moon. 1815 hrs.
21 Su Solstice 0146 hrs.;
(Summer begins in N. hemisphere)
22 Mo ˜ New Moon, 1535 hrs.
23 Tu Pluto at opposition, 0400 hrs.; in Sagittarius, very dense star field.
27 Sa Saturn 7° N. of Moon, 1000 hrs.
29 Mo , First Quarter Moon 0728 hrs.

July '09

HIGHLITE: Summer Milky Way

7 Tu • Full Moon 0521hrs; smallest in '09 Penumbral lunar eclipse; too faint to be observed in most US zones.
15 We ƒ Last Quarter Moon 0553 hrs.
21 Tu ˜ New Moon 2235 hrs.
Total Solar Eclipse— East Asia; Very long totality at max. (over six minutes);Not visibleinEDT zone
28 Tu , First Quarter Moon 1800 hrs.
28 Tu **S. d A quarid Meteors pk** 2300h. Favorable after mid-night

August '09

HIGHLITE: Perseid Meteors

05 We **Pen. lunar eclipse;moonrise** starts 1904h.; ends 2214h.
05 We • Full Moon 2055 hrs.
12 We **Perseids Pk.1400hrs**;good
13 Th ƒ Last Quarter Moon 1455 hrs
14 Fr **Jupiter at opposition**; 1400h.
19 We **Dbl.ShadowTr.,J. 1947 hrs.**
20 Th ˜ New Moon 0602 hrs.
27 Th **Dbl.Shadow Tr,J., 2242hrs.**
27 Th , First Quarter Moon 0742 hrs

September '09

HIGHLITE: Saturn's ring angle at 0.0°

04 Fr • Full Moon 1203 hrs
11 Fr , Last Quarter Moon 2216 hrs.
16 We Zodiacal Lt. in E. before morning twilight for 2 wks.
17 Th Uranus at opposition, 0600 hrs.
18 Fr ˜ New Moon 1444 hrs.
21 Mo Asteroid **(3)Juno** at opposition, 0400hrs.; in Pisces, mag. 7.6
22 Tu **Equinox** 1719 hrs.
26 Sa , First Quarter Moon 0050 hrs.

October '09

HIGHLITE: Orionid Meteor shower

04 Su • Full Moon 0210 hrs.
05 Mo Merc. greatest elong.W.(18°),2200h.
08 Th Draconid meteors Pk., 0300h.;poor
11 Su ƒ Last Quarter Moon 0456 hrs.
13 Tu **Venus** 0.6° S. of Saturn, 1100 hrs.
15 Th Zodiacal Lt. in E. before morning Twilight for 2 wks.(N. latitudes)
18 Su ˜ New Moon 0133 hrs.
21 We Orionid Meteors Pk., 0600; very favorable return this year.
25 Su , First Quarter Moon 2042hrs.

November '09

HIGHLITE: Meteor Showers (2)

01 Su Daylight Savings End; UT-5
02 Mo • Full Moon 1414 hrs EST
05 Th S.Taurids Meteors Pk 0500hrs
09 Mo ƒ Last Quarter Moon 1056hrs
12 Th **N.TauridsMeteors Pk** 0500h.
16 Mo ˜ New Moon 1414 hrs.
17 Tu Leonid Meteors Pk 1130h.? very favorable 11- 17/18.
21 Sa **Alpha Monocerotids Meteors Pk;** favorable after midnight
24 Tu , First Quarter Moon 1639 hrs.

December '09

HIGHLITE: Geminid Meteor Shower

02 We • Full Moon 0230 hrs EST
08 Tu ƒ Last Quarter Moon 1913hrs
14 Mo **Geminid Meteors Pk. 0000 hrs.;**
16 We ˜ New Moon 0702 hrs.
18 Fr Merc. greatest elong.E.(20°),1200h.
20 Su **Dbl. Shadow Tr., J., 2034 hrs.**
21 Mo Solstice 1247hrs.
22 Tu Ursid Meteors Pk.; 0900 hrs.; favorable after mid-night on 22nd
24 Th , First Quarter Moon 1236 hrs.
31 Th Partial Lunar Eclipse; not visible EST
31 • Full Moon 1413 hrs **(Blue Moon)**

*Times/ Dates= Eastern Time (UT-5 =EST; UT-4 =EDT) ; updated at www.astronomyyear2009.com; Doug Snyder

Abbr: Tr=transit; Pk=Peak; E.=East; W.=West; S.=South; N=North; Merc.=Mercury; J.=Jupiter; V.=Venus; Sat.=Saturn elong.=elongation; Pen.= Penumbral; hrs., h.= hours (24 hour system); wks. = weeks; Lt.=Light. Ver.2009ETV1.0