

2024

(Ver Ref : 2019.1).

Astronomical Calendar

This is an astronomical calendar. For each Saturday in the year, four Stars that appear in about **30 degrees** intervals in the night sky are selected. Also Planets that appear in the night sky are included in the list.

The times of Stars and Planets (except Mercury and Venus) are the **"The Mean Solar Transit Times"**. The Stars and Planets that are at Transit will be at its highest altitude, and appear directly to the north or south. **Solar Time = GMT + (Longitude / 15)**. The difference between **Solar Time** and **Local Time** does not exceed **1 hour** for most countries.

All times are obtained for **Point Zero** (at: 0° Latitude, 0° Longitude). However, the Solar Transit Times for Stars and Planets in Point Zero are equal to the Solar Transit Times of these Stars and Planets at any other point on earth with a margin of error that does not exceed **5 minutes**.

Also, the rise and set of the Sun, Moon, Mercury and Venus are also in "Solar Time". But, the margin of error for the **Solar Rise & Set Times** for the Sun (and other Objects) in Point Zero and other points on earth will be higher depending on the latitude of these points (for areas between 30N to 30S; the margin of error is about 1 hour). Therefore, the rise and set times in this calendar should be taken as **indicators**.

New And Full Moon Times are in **GMT**. Time is formatted as "hh:mm". **MB** (Moon Beta): Geocentric Ecliptic Latitude of the Moon, which varies between: -5.27 to +5.27 degrees.

Mag: The Moon Angular Diameter, which varies between 0.49 to 0.557 degrees (avg 0.523).

SaG: The Sun Angular Diameter, which varies between 0.5244 to 0.5422 degrees. (avg 0.533).

Hijri Months: Mth (Muharram), S^r(Safar), R^{bi}(Rabi Al Awwal), R^{bi}2 (Rabi Thani), J^{um}1 (Jumada Awwal), J^{um}2 (Jumada Thani), R^{aj} (Rajab), S^h (Sha'ban), R^{md} (Ramadan), S^H (Shawwal), Q^{dh} (Zul Qadiah), H^{jh} (Zul Hijjah).

Hijri Months are obtained using "The Rule of 29", which says that the New Moon occurs at the 29th day of the Hijri month. The results of this rule agree with 92% of fallop criteria, and 91% of SAAO criteria (the most two recognized criteria for crescent sighting).

For more info: "The Rule of 29" at http://www.omr-imnind.volsite.com

Cross off weeks that have passed with a highlighter, so that the Calendar will be easier to follow.

Compiled by: Omar Abur-Robb - 2019.

#	Constellation, Star Name, Brightness, Rank, Direction, Arabic Name, Latin Name, Arabic Name, Latin Name, Arabic Name, Latin Name
CM	Canis Majoris, Sinuis , 1. Siyis, 1. Almeida, 1. 0.42
Hy	Hydrae, Hydrae Epsilon , 2.52, 2. 0.47
Leo	Leonis, Algeiba , 0.99, 1. 0.15
Gem	Centauri, Muhlifan , 0.41, 2. 0.44
Scor	Centauri, Antares , 1.56, 0.99
Ly	Lynx, Vega , 5.79, 0.25
Cy	Cygni, Deneb , 0.72, 1. 0.29
Pis	Pisces Australis, Fomalhaut , 1.8, 2. 0.36
Cas	Cassiopeiae, Schedar , 1.71, 1. 0.38
Tau	Ceti, Kafjalidhama , 2.77, 2. 0.31
Tel	Tauri, Aldebaran , 1.44, 0.39

Mrc: Mercury, **Jup:** Jupiter, **Sat:** Saturn, **Ura:** Uranus, **Nep:** Neptune,

Plu: Pluto.

#	Sat's	Details
W1	Sat	Transit: Cet 20:08, Tau 22:01, CM 00:13, Hy 02:15 ** Jup 19:36, Ura 20:34
2023	At Point Zero/RISE SET: Sun 05:58 18:06, Moon 04:52 16:55, Vns 03:16	
Dec 30	Sat	15:38, Mars 05:03 17:06, Jup 13:35 01:41, Srm 08:43 21:46, Ura 14:32 02:39, Nep 11:02 23:05, Plu 07:29 19:32 ** MoonPhase 88.34%
W2	Sat	Transit: Hy 21:36, Leo 23:08, Gcm 01:34, Rcen 03:32
2024	At Point Zero/RISE SET: Sun 06:07 18:13, Moon 05:34 17:40, Mrc 06:39 18:41, Vns 04:42	
Jan 6	Sat	16:44, Mars 04:58 17:01, Jup 13:07 01:14, Srm 09:18 21:21, Ura 14:04 02:11, Nep 10:35 22:38, Plu 07:03 19:06 ** MoonPhase 87.20%
W3	Sat	Transit: Tau 21:05, CM 23:14, Hy 01:20, Leo 02:59 ** Jup 18:42, Ura 19:38
2024	At Point Zero/RISE SET: Sun 06:04 18:12, Moon 07:58 20:25, Mrc 04:21 16:24, Vns 03:32	
Jan 13	Sat	15:35, Mars 04:53 16:56, Jup 12:41 00:47, Srm 08:53 20:56, Ura 13:36 01:43, Nep 10:08 22:11, Plu 06:36 18:39 ** MoonPhase 5.68%
W4	Sat	Transit: Tau 20:10, CM 22:19, Hy 00:25, Leo 01:57 ** Ura 18:42
2024	At Point Zero/RISE SET: Sun 06:09 18:16, Moon 19:49 07:26, Mrc 04:43 16:45, Vns 03:51	
Jan 27	Sat	15:54, Mars 04:44 16:47, Jup 11:49 23:52, Srm 08:04 20:06, Ura 12:41 00:47, Nep 09:15 21:17, Plu 05:43 17:46 ** MoonPhase 97.15%
W5	Sat	Transit: CM 21:51, Hy 23:53, Leo 01:30, Gcm 03:52
2024	At Point Zero/RISE SET: Sun 06:10 18:17, Moon 13:40 00:12, Mrc 06:37 17:40, Vns 04:19	
Feb 3	Sat	18:22, Mars 04:30 16:33, Jup 10:36 22:39, Srm 06:50 18:53, Ura 11:19 23:22, Nep 07:54 19:57, Plu 04:23 16:26 ** MoonPhase 59.46%
W6	Sat	Transit: CM 20:29, Hy 22:31, Leo 00:07, Gcm 02:29
2024	At Point Zero/RISE SET: Sun 06:09 18:16, Moon 18:28 06:07, Mrc 05:57 18:00, Vns 04:27	
Feb 24	Sat	16:30, Mars 04:24 16:27, Jup 10:13 22:15, Srm 06:26 18:29, Ura 10:52 22:55, Nep 07:28 19:30, Plu 03:57 16:00 ** MoonPhase 100.00%
W7	Sat	Transit: Ly 19:55, Cy 21:59, Pic 00:20, Cas 02:03 ** Srm 00:33, Ura 05:02, Nep 01:15, Plu 21:27
2024	At Point Zero/RISE SET: Sun 05:56 18:03, Moon 03:58 16:21, Mrc 05:50 16:53, Vns 07:24	
Feb 10	Sat	19:26, Mars 01:03 13:06, Jup 00:28 12:31, Srm 18:27 06:34, Ura 22:57 11:03, Nep 19:10 07:16, Plu 15:28 03:39 ** MoonPhase 6.17%
W8	Sat	Transit: Sco 21:29, Ly 23:36, Cy 01:43, Pic 04:00 ** Srm 04:23, Nep 04:58, Plu 01:16
2024	At Point Zero/RISE SET: Sun 06:01 18:08, Moon 06:24 18:51, Mrc 07:30 19:33, Vns 06:36	
Feb 17	Sat	18:39, Mars 02:06 14:09, Jup 03:27 15:30, Srm 22:17 10:24, Ura 02:35 14:38, Nep 22:53 11:00, Plu 19:11 07:18 ** MoonPhase 0.33%
W9	Sat	Transit: Sco 20:56, Hy 22:58, Leo 00:35, Gcm 02:56
2024	At Point Zero/RISE SET: Sun 06:10 18:17, Moon 13:40 00:12, Mrc 06:37 17:40, Vns 04:19	
Feb 17	Sat	19:57, Plu 04:23 16:26 ** MoonPhase 59.46%
W9	Sat	Transit: CM 20:29, Hy 22:31, Leo 00:07, Gcm 02:29
2024	At Point Zero/RISE SET: Sun 06:09 18:16, Moon 18:28 06:07, Mrc 05:57 18:00, Vns 04:27	
Feb 24	Sat	16:30, Mars 04:24 16:27, Jup 10:13 22:15, Srm 06:26 18:29, Ura 10:52 22:55, Nep 07:28 19:30, Plu 03:57 16:00 ** MoonPhase 100.00%
W9	Sat	Transit: CM 20:29, Hy 22:31, Leo 00:07, Gcm 02:29
2024	At Point Zero/RISE SET: Sun 06:09 18:16, Moon 18:28 06:07, Mrc 05:57 18:00, Vns 04:27	
Feb 24	Sat	16:30, Mars 04:24 16:27, Jup 10:13 22:15, Srm 06:26 18:29, Ura 10:52 22:55, Nep 07:28 19:30, Plu 03:57 16:00 ** MoonPhase 100.00%
W9	Sat	Transit: CM 20:29, Hy 22:31, Leo 00:07, Gcm 02:29
2024	At Point Zero/RISE SET: Sun 06:09 18:16, Moon 18:28 06:07, Mrc 05:57 18:00, Vns 04:27	
Feb 24	Sat	16:30, Mars 04:24 16:27, Jup 10:13 22:15, Srm 06:26 18:29, Ura 10:52 22:55, Nep 07:28 19:30, Plu 03:57 16:00 ** MoonPhase 100.00%
W9	Sat	Transit: CM 20:29, Hy 22:31, Leo 00:07, Gcm 02:29
2024	At Point Zero/RISE SET: Sun 06:09 18:16, Moon 18:28 06:07, Mrc 05:57 18:00, Vns 04:27	
Feb 24	Sat	16:30, Mars 04:24 16:27, Jup 10:13 22:15, Srm 06:26 18:29, Ura 10:52 22:55, Nep 07:28 19:30, Plu 03:57 16:00 ** MoonPhase 100.00%

W10	Sat	Transit: Hy 22:03, Leo 23:36, Gcm 02:10, Rcen 04:00
2024	At Point Zero/RISE SET: Sun 06:08 18:15, Moon 23:24 10:57, Mrc 06:18 18:20, Vns 04:35	
Mar 2	Sat	16:38, Mars 04:19 16:22, Jup 09:50 21:52, Srm 06:02 18:04, Ura 10:25 22:28, Nep 07:01 19:04, Plu 03:30 15:33 ** MoonPhase 61.63%
W11	Sat	Transit: Hy 21:36, Leo 23:08, Gcm 01:34, Rcen 03:32
2024	At Point Zero/RISE SET: Sun 06:07 18:13, Moon 05:34 17:40, Mrc 06:39 18:41, Vns 04:42	
Mar 9	Sat	16:44, Mars 04:53 17:06, Jup 13:07 01:14, Srm 09:18 21:21, Ura 14:04 02:11, Nep 10:35 22:38, Plu 07:03 19:06 ** MoonPhase 87.20%
W12	Sat	Transit: Tau 21:05, CM 23:14, Hy 01:20, Leo 02:59 ** Jup 18:42, Ura 19:38
2024	At Point Zero/RISE SET: Sun 06:04 18:12, Moon 07:58 20:25, Mrc 04:21 16:24, Vns 03:32	
Mar 16	Sat	15:35, Mars 04:53 16:56, Jup 12:41 00:47, Srm 08:53 20:56, Ura 13:36 01:43, Nep 10:08 22:11, Plu 06:36 18:39 ** MoonPhase 5.68%
W13	Sat	Transit: Hy 20:40, Leo 22:13, Gcm 00:39, Rcen 02:37
2024	At Point Zero/RISE SET: Sun 06:07 18:13, Moon 05:34 17:40, Mrc 06:39 18:41, Vns 04:53	
Mar 23	Sat	16:55, Mars 04:00 16:03, Jup 08:43 20:45, Srm 04:48 16:51, Ura 09:06 21:08, Nep 05:41 17:44, Plu 02:09 14:12 ** MoonPhase 97.16%
W14	Sat	Transit: Hy 20:13, Leo 21:46, Gcm 00:11, Rcen 02:10
2024	At Point Zero/RISE SET: Sun 06:01 18:07, Moon 22:12 09:45, Mrc 06:57 19:00, Vns 04:57	
Mar 30	Sat	17:00, Mars 03:54 15:56, Jup 08:21 20:24, Srm 04:24 16:27, Ura 08:39 20:42, Nep 05:15 17:17, Plu 01:42 13:45 ** MoonPhase 76.39%
W15	Sat	Transit: Leo 20:18, Gcm 20:40, Rcen 01:42, Sco 03:30
2024	At Point Zero/RISE SET: Sun 05:59 18:05, Moon 03:52 16:17, Mrc 06:28 18:31, Vns 05:02	
Apr 6	Sat	17:04, Mars 03:47 15:49, Jup 07:59 20:02, Srm 03:59 16:02, Ura 08:13 20:16, Nep 04:48 16:51, Plu 01:15 13:18 ** MoonPhase 7.52%
W16	Sat	Transit: Leo 20:51, Gcm 21:42, Rcen 01:14, Sco 03:03
2024	At Point Zero/RISE SET: Sun 06:01 18:07, Moon 10:13 22:41, Mrc 05:45 17:48, Vns 05:06	
Apr 13	Sat	17:08, Mars 03:49 15:42, Jup 07:38 19:41, Srm 03:35 15:37, Ura 07:47 19:50, Nep 04:22 16:24, Plu 00:58 12:51 ** MoonPhase 27.13%
W17	Sat	Transit: Leo 20:33, Gcm 20:45, Rcen 00:47, Sco 02:35
2024	At Point Zero/RISE SET: Sun 05:55 18:02, Moon 15:46 03:25, Mrc 05:04 17:06, Vns 05:10	
Apr 20	Sat	15:38, Mars 03:52 15:53, Jup 07:17 19:20, Srm 03:10 15:12, Ura 07:21 19:24, Nep 03:55 15:58, Plu 00:21 12:24 ** MoonPhase 89.21%
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Mar 2	Sat	16:38, Mars 04:19 16:22, Jup 09:50 21:52, Srm 06:02 18:04, Ura 10:25 22:28, Nep 07:01 19:04, Plu 03:30 15:33 ** MoonPhase 61.63%
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