

2025

(For 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 "The Mean Solar Transit Times" of the

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: **Mhr** (Muharram), **Sfri**(Safar), **Rabi**(Rabi Awal), **Rabi** (Rabi Thani), **JmI** (Jumada Awwal), **Jm2** (Jumada Thani), **Rjb** (Rajab), **Shm** (Shaban), **Rmd** (Ramadan), **Shi** (Shiawwal), **Qdh** (Zul Qadha), **Hjh** (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 SMOO criteria (the most two recognized criteria for crescent sighting).

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*, *Color*, *Size*, *Age*

CM *Canis Majoris*, *Sinuis*, 1, *Al-Rabi*, *Al-Bayda*, 1.1

Hy *Hydrae*, *Hydrae Epistola*, 252, *Al-Bayda*, 0.7

Leo *Leonis*, *Algebra*, 49, *Al-Bayda*, 0.9

Rcm *Centauri*, *Muhlifan*, 64, *Al-Bayda*, 0.7

Scor *Scorpii*, *Antares*, 15, *Al-Bayda*, 0.9

Cy *Cygni*, *Deneb*, 27, *Al-Bayda*, 0.9

Pi *Picis*, *Audina*, *Fomalhaut*, 18, *Al-Bayda*, 0.7

Cas *Cassiopeiae*, *Schedar*, 71, *Al-Bayda*, 0.7

Tau *Tauri*, *Kafaljidhara*, 277, *Al-Bayda*, 0.7

Uor *Ursae Majoris*, *Ben Hur*, 14, *Al-Bayda*, 0.7

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

Plu: Pluto.

W1	Sat	Details Transit: Cet 20:13, Tau 22:05, CM 00:18, Hy 02:20 ** Mars 01:53, Jup 22:15, Ura 20:56 At Point Zero/RISE SET: Sun 05:59 18:05, Moon 09:36 16:01, Mrc 04:22 16:25, Vns 09:11 21:14, Mars 19:48 07:55, Jup 16:13 04:20, Strm 10:30 22:33, Ura 14:55 03:01, Nep 11:15 23:18, Plu 07:42 19:45 ** MoonPhase 62.3%
W9	Sat	Transit: CM 20:34, Hy 22:36, Uro 00:16, Gcm 02:36 ** Mars 21:00, Jup 18:27 20:25 At Point Zero/RISE SET: Sun 06:10 18:16, Moon 00:59 13:25, Mrc 06:48 18:50, Vns 08:12 20:15, Mars 14:58 03:05, Jup 12:25 00:32, Strm 07:11 19:13, Ura 11:13 23:16, Nep 07:40 19:43, Plu 04:09 16:12 ** MoonPhase 32.90%
W10	Sat	Transit: Tau 21:38, CM 23:46, Hy 01:52, Leo 03:25 ** Mars 01:16, Jup 21:44, Ura 20:28 20:25 At Point Zero/RISE SET: Sun 06:01 18:08, Moon 09:55 22:17, Mrc 04:32 16:35, Vns 09:12 22:51, Mars 19:11 07:18, Jup 15:43 03:50, Strm 10:05 22:07, Ura 14:26 02:33, Nep 10:48 21:51, Plu 07:15 19:18 ** MoonPhase 33.20%
W11	Sat	Transit: Tau 21:38, CM 23:46, Hy 01:52, Leo 03:25 ** Mars 01:16, Jup 21:44, Ura 20:00 20:25 At Point Zero/RISE SET: Sun 06:04 18:11, Moon 16:02 03:30, Mrc 04:47 16:50, Vns 09:11 22:24, Plu 06:48 18:51 ** MoonPhase 32.83%
Jan 11	Sat	Transit: Tau 20:43, CM 22:42, Hy 00:57, Leo 02:30 ** Mars 01:38, Jup 20:44, Ura 19:32 20:25 At Point Zero/RISE SET: Sun 06:06 18:14, Moon 21:56 09:35, Mrc 05:05 17:08, Vns 09:08 21:11, Mars 17:53 06:00, Jup 14:43 02:50, Strm 09:14 21:17, Ura 13:30 01:37, Nep 09:54 21:57, Plu 06:22 18:25 ** MoonPhase 79.72%
Jan 18	Sat	Transit: Tau 20:43, CM 22:42, Hy 00:57, Leo 02:30 ** Mars 01:38, Jup 19:47, Ura 18:36 20:25 At Point Zero/RISE SET: Sun 06:10 18:17, Moon 08:38 21:01, Mrc 05:45 17:48, Vns 08:56 20:58, Mars 16:36 04:43, Jup 13:46 01:53, Strm 08:24 20:27, Ura 12:35 00:42, Nep 09:00 21:03, Plu 05:29 17:39 ** MoonPhase 11.29%
W15	Sat	Transit: Tau 20:15, CM 22:14, Hy 00:30, Leo 02:02 ** Mars 23:15, Jup 20:15, Ura 19:04 20:25 At Point Zero/RISE SET: Sun 06:08 18:15, Moon 08:17 14:43, Mrc 05:25 17:28, Vns 09:03 21:30, Plu 05:53 17:58 ** MoonPhase 17.92%
Jan 25	Sat	Transit: Tau 20:15, CM 22:14, Hy 00:30, Leo 02:02 ** Mars 23:15, Jup 19:20 20:25 At Point Zero/RISE SET: Sun 06:10 18:17, Moon 14:54 02:23, Mrc 06:07 18:09, Vns 08:45 20:36, Mars 16:01 04:06, Jup 13:18 01:25, Strm 08:00 20:02, Ura 12:07 00:14, Nep 08:34 20:36, Plu 05:02 17:05 ** MoonPhase 62.49%
Feb 8	Sat	Transit: CM 21:29, Hy 23:31, Leo 01:07, Gcm 03:29 ** Mars 22:02, Jup 19:20 20:25 At Point Zero/RISE SET: Sun 06:10 18:17, Moon 14:54 02:23, Mrc 06:07 18:09, Vns 08:45 20:36, Mars 16:01 04:06, Jup 13:18 01:25, Strm 08:00 20:02, Ura 12:07 00:14, Nep 08:34 20:36, Plu 05:02 17:05 ** MoonPhase 62.49%
W16	Sat	Transit: CM 21:56, Hy 00:02, Leo 01:35, Gcm 03:56 ** Mars 22:38, Jup 19:47, Ura 18:36 20:25 At Point Zero/RISE SET: Sun 06:10 18:17, Moon 08:38 21:01, Mrc 05:45 17:48, Vns 08:56 20:58, Mars 16:36 04:43, Jup 13:46 01:53, Strm 08:24 20:27, Ura 12:35 00:42, Nep 09:00 21:03, Plu 05:29 17:39 ** MoonPhase 11.29%
Feb 1	Sat	Transit: CM 21:56, Hy 00:02, Leo 01:35, Gcm 03:56 ** Mars 22:38, Jup 19:47, Ura 18:36 20:25 At Point Zero/RISE SET: Sun 06:10 18:17, Moon 08:38 21:01, Mrc 05:45 17:48, Vns 08:56 20:58, Mars 16:36 04:43, Jup 13:46 01:53, Strm 08:24 20:27, Ura 12:35 00:42, Nep 09:00 21:03, Plu 05:29 17:39 ** MoonPhase 11.29%
W17	Sat	Transit: CM 21:29, Hy 23:31, Leo 01:07, Gcm 03:29 ** Mars 22:02, Jup 19:20 20:25 At Point Zero/RISE SET: Sun 06:10 18:17, Moon 14:54 02:23, Mrc 06:07 18:09, Vns 08:45 20:36, Mars 16:01 04:06, Jup 13:18 01:25, Strm 08:00 20:02, Ura 12:07 00:14, Nep 08:34 20:36, Plu 05:02 17:05 ** MoonPhase 62.49%
Feb 8	Sat	Transit: CM 21:29, Hy 23:31, Leo 01:07, Gcm 03:29 ** Mars 22:02, Jup 19:20 20:25 At Point Zero/RISE SET: Sun 06:10 18:17, Moon 14:54 02:23, Mrc 06:07 18:09, Vns 08:45 20:36, Mars 16:01 04:06, Jup 13:18 01:25, Strm 08:00 20:02, Ura 12:07 00:14, Nep 08:34 20:36, Plu 05:02 17:05 ** MoonPhase 62.49%

W8	Sat	Transit: CM 21:01, Hy 23:03, Leo 00:40, Gcm 03:01 ** Mars 21:30, Jup 18:53 20:25 At Point Zero/RISE SET: Sun 06:10 18:17, Moon 20:30 08:10, Mrc 06:28 18:30, Vns 08:31 20:30, Mars 15:28 03:35, Jup 12:51 00:58, Strm 07:35 19:38, Ura 11:40 23:43, Nep 08:07 20:10, Plu 04:36 16:38 ** MoonPhase 91.80%
Feb 15	Sat	Transit: CM 20:34, Hy 22:36, Uro 00:16, Gcm 02:36 ** Mars 21:00, Jup 18:27 20:25 At Point Zero/RISE SET: Sun 06:10 18:16, Moon 00:59 13:25, Mrc 06:48 18:50, Vns 08:12 20:15, Mars 14:58 03:05, Jup 12:25 00:32, Strm 07:11 19:13, Ura 11:13 23:16, Nep 07:40 19:43, Plu 04:09 16:12 ** MoonPhase 32.90%
W9	Sat	Transit: CM 20:34, Hy 22:36, Uro 00:16, Gcm 02:36 ** Mars 21:00, Jup 18:27 20:25 At Point Zero/RISE SET: Sun 06:10 18:16, Moon 00:59 13:25, Mrc 06:48 18:50, Vns 08:12 20:15, Mars 14:58 03:05, Jup 12:25 00:32, Strm 07:11 19:13, Ura 11:13 23:16, Nep 07:40 19:43, Plu 04:09 16:12 ** MoonPhase 32.90%
Feb 22	Sat	Transit: Tau 21:38, CM 23:46, Hy 01:52, Leo 03:25 ** Mars 20:08 20:25 At Point Zero/RISE SET: Sun 06:07 18:13, Moon 13:48 01:17, Mrc 07:09 19:11, Vns 07:15 19:18, Mars 14:07 02:14, Jup 11:35 23:38, Strm 06:22 18:24, Ura 10:19 22:22, Nep 06:47 18:50, Plu 03:15 15:18 ** MoonPhase 69.34%
W10	Sat	Transit: Hy 21:13, Leo 22:46, Gcm 01:11, Rcm 03:10 ** Mars 19:46 20:25 At Point Zero/RISE SET: Sun 06:05 18:12, Moon 19:07 06:47, Mrc 06:53 18:56, Vns 06:37 18:39, Mars 13:45 01:52, Jup 11:11 23:14, Strm 05:58 18:00, Ura 09:53 21:56, Nep 06:21 18:23, Plu 02:49 14:52 ** MoonPhase 98.65%
Mar 15	Sat	Transit: Hy 21:13, Leo 22:46, Gcm 01:11, Rcm 03:10 ** Mars 19:46 20:25 At Point Zero/RISE SET: Sun 06:05 18:12, Moon 19:07 06:47, Mrc 06:53 18:56, Vns 06:37 18:39, Mars 13:45 01:52, Jup 11:11 23:14, Strm 05:58 18:00, Ura 09:53 21:56, Nep 06:21 18:23, Plu 02:49 14:52 ** MoonPhase 98.65%
W11	Sat	Transit: Hy 21:40, Leo 23:13, Gcm 01:39, Rcm 03:37 ** Mars 20:08 20:25 At Point Zero/RISE SET: Sun 06:07 18:13, Moon 13:48 01:17, Mrc 07:09 19:11, Vns 07:15 19:18, Mars 14:07 02:14, Jup 11:35 23:38, Strm 06:22 18:24, Ura 10:19 22:22, Nep 06:47 18:50, Plu 03:15 15:18 ** MoonPhase 69.34%
Mar 8	Sat	Transit: Hy 21:40, Leo 23:13, Gcm 01:39, Rcm 03:37 ** Mars 20:08 20:25 At Point Zero/RISE SET: Sun 06:07 18:13, Moon 13:48 01:17, Mrc 07:09 19:11, Vns 07:15 19:18, Mars 14:07 02:14, Jup 11:35 23:38, Strm 06:22 18:24, Ura 10:19 22:22, Nep 06:47 18:50, Plu 03:15 15:18 ** MoonPhase 69.34%
W12	Sat	Transit: Hy 21:13, Leo 22:46, Gcm 01:11, Rcm 03:10 ** Mars 19:46 20:25 At Point Zero/RISE SET: Sun 06:05 18:12, Moon 19:07 06:47, Mrc 06:53 18:56, Vns 06:37 18:39, Mars 13:45 01:52, Jup 11:11 23:14, Strm 05:58 18:00, Ura 09:53 21:56, Nep 06:21 18:23, Plu 02:49 14:52 ** MoonPhase 98.65%
Mar 15	Sat	Transit: Hy 21:13, Leo 22:46, Gcm 01:11, Rcm 03:10 ** Mars 19:46 20:25 At Point Zero/RISE SET: Sun 06:05 18:12, Moon 19:07 06:47, Mrc 06:53 18:56, Vns 06:37 18:39, Mars 13:45 01:52, Jup 11:11 23:14, Strm 05:58 18:00, Ura 09:53 21:56, Nep 06:21 18:23, Plu 02:49 14:52 ** MoonPhase 98.65%
W13	Sat	Transit: Hy 20:45, Leo 22:18, Gcm 00:44, Rcm 02:42 ** Mars 19:36 20:25 At Point Zero/RISE SET: Sun 06:03 18:10, Moon 3 12:09, Mrc 06:15 18:17, Vns 05:54 17:57, 18:50, Mars 13:24 01:17, Jup 10:47 22:30, Strm 05:23 17:36, Ura 09:26 21:29, Nep 05:54 17:57, Plu 02:22 14:25 ** MoonPhase 49.82%
Mar 22	Sat	Transit: Hy 20:45, Leo 22:18, Gcm 00:44, Rcm 02:42 ** Mars 19:36 20:25 At Point Zero/RISE SET: Sun 06:03 18:10, Moon 3 12:09, Mrc 06:15 18:17, Vns 05:54 17:57, 18:50, Mars 13:24 01:17, Jup 10:47 22:30, Strm 05:23 17:36, Ura 09:26 21:29, Nep 05:54 17:57, Plu 02:22 14:25 ** MoonPhase 49.82%
W14	Sat	Transit: Hy 20:18, Leo 21:51, Gcm 00:16, Rcm 02:14 ** Mars 19:07 20:25 At Point Zero/RISE SET: Sun 06:01 18:07, Moon 03:07 15:32, Mrc 05:27 17:30, Vns 05:12 17:15, Mars 13:05 01:12, Jup 10:24 22:26, Strm 05:09 17:17, Ura 09:00 21:03, Nep 05:28 17:30, Plu 01:55 13:58 ** MoonPhase 0.00%
Mar 29	Sat	Transit: Hy 20:18, Leo 21:51, Gcm 00:16, Rcm 02:14 ** Mars 19:07 20:25 At Point Zero/RISE SET: Sun 06:01 18:07, Moon 03:07 15:32, Mrc 05:27 17:30, Vns 05:12 17:15, Mars 13:05 01:12, Jup 10:24 22:26, Strm 05:09 17:17, Ura 09:00 21:03, Nep 05:28 17:30, Plu 01:55 13:58 ** MoonPhase 0.00%
W15	Sat	Transit: Hy 20:18, Leo 21:51, Gcm 00:16, Rcm 02:14 ** Mars 19:07 20:25 At Point Zero/RISE SET: Sun 06:01 18:07, Moon 03:07 15:32, Mrc 05:27 17:30, Vns 05:12 17:15, Mars 13:05 01:12, Jup 10:24 22:26, Strm 05:09 17:17, Ura 09:00 21:03, Nep 05:28 17:30, Plu 01:55 13:58 ** MoonPhase 0.00%
Apr 5	Sat	Transit: CM 22:59, Cy 03:38 ** Mars 18:49 20:25 At Point Zero/RISE SET: Sun 05:59 18:05, Moon 12:39 00:10, Mrc 04:49 16:51, Vns 04:35 16:36, Mars 11:24 07:05,4, Jup 10:01 22:04, Strm 04:44 16:47, Ura 06:34 20:37, Nep 05:01 17:03, Plu 01:28 13:31 ** MoonPhase 54.39%
Apr 5	Sat	Transit: CM 22:59, Cy 03:38 ** Mars 18:49 20:25 At Point Zero/RISE SET: Sun 05:59 18:05, Moon 12:39 00:10, Mrc 04:49 16:51, Vns 04:35 16:36, Mars 11:24 07:05,4, Jup 10:01 22:04, Strm 04:44 16:47, Ura 06:34 20:37, Nep 05:01 17:03, Plu 01:28 13:31 ** MoonPhase 54.39%

W16	Sat	Transit: Leo 20:56, Gcm 23:17, Rcm 01:19, Sco 03:08 ** Mars 18:32 20:25 At Point Zero/RISE SET: Sun 05:57 18:04, Moon 17:46 05:26, Mrc 04:26 16:29, Vns 04:06 16:08, Mars 12:31 03:34, Jup 09:38 21:41, Strm 04:20 16:22, Ura 08:08 20:10, Nep 04:34 15:37, Plu 01:01 13:04 ** MoonPhase 99.76%
Apr 12	Sat	Transit: Leo 20:56, Gcm 23:17, Rcm 01:19, Sco 03:08 ** Mars 18:32 20:25 At Point Zero/RISE SET: Sun 05:57 18:04, Moon 17:46 05:26, Mrc 04:26 16:29, Vns 04:06 16:08, Mars 12:31 03:34, Jup 09:38 21:41, Strm 04:20 16:22, Ura 08:08 20:10, Nep 04:34 15:37, Plu 01:01 13:04 ** MoonPhase 99.76%
W17	Sat	Transit: Leo 20:56, Gcm 23:17, Rcm 01:19, Sco 03:08 ** Mars 18:32 20:25 At Point Zero/RISE SET: Sun 05:57 18:04, Moon 17:46 05:26, Mrc 04:26 16:29, Vns 04:06 16:08, Mars 12:31 03:34, Jup 09:38 21:41, Strm 04:20 16:22, Ura 08:08 20:10, Nep 04:34 15:37, Plu 01:01 13:04 ** MoonPhase 99.76%
Apr 19	Sat	Transit: Gcm 21:00, Rcm 22:58, Sco 00:50, Cy 02:57 ** Mars 18:49 20:25 At Point Zero/RISE SET: Sun 05:52 18:00, Moon 22:13 09:45, Mrc 04:53 16:56, Vns 05:59 15:01, Mars 11:18 23:48, Jup 08:33 20:36, Strm 03:06 15:08, Ura 06:50 18:53, Nep 03:14 15:17, Plu 23:35 11:42 ** MoonPhase 38.73%
W18	Sat	Transit: Gcm 21:00, Rcm 22:58, Sco 00:50, Cy 02:57 ** Mars 18:49 20:25 At Point Zero/RISE SET: Sun 05:52 18:00, Moon 22:13 09:45, Mrc 04:53 16:56, Vns 05:59 15:01, Mars 11:18 23:48, Jup 08:33 20:36, Strm 03:06 15:08, Ura 06:50 18:53, Nep 03:14 15:17, Plu 23:35 11:42 ** MoonPhase 38.73%
May 3	Sat	Transit: Gcm 21:00, Rcm 22:58, Sco 00:50, Cy 02:57 ** Mars 18:49 20:25 At Point Zero/RISE SET: Sun 05:52 18:00, Moon 22:13 09:45, Mrc 04:53 16:56, Vns 05:59 15:01, Mars 11:18 23:48, Jup 08:33 20:36, Strm 03:06 15:08, Ura 06:50 18:53, Nep 03:14 15:17, Plu 23:35 11:42 ** MoonPhase 38.73%
W19	Sat	Transit: Gcm 21:00, Rcm 22:58, Sco 00:50, Cy 02:57 ** Mars 18:49 20:25 At Point Zero/RISE SET: Sun 05:52 18:00, Moon 22:13 09:45, Mrc 04:53 16:56, Vns 05:59 15:01, Mars 11:18 23:48, Jup 08:33 20:36, Strm 03:06 15:08, Ura 06:50 18:53, Nep 03:14 15:17, Plu 23:35 11:42 ** MoonPhase 38.73%
May 3	Sat	Transit: Gcm 21:00, Rcm 22:58, Sco 00:50, Cy 02:57 ** Mars 18:49 20:25 At Point Zero/RISE SET: Sun 05:52 18:00, Moon 22:13 09:45, Mrc 04:53 16:56, Vns 05:59 15:01, Mars 11:18 23:48, Jup 08:33 20:36, Strm 03:06 15:08, Ura 06:50 18:53, Nep 03:14 15:17, Plu 23:35 11:42 ** MoonPhase 38.73%
W20	Sat	Transit: Gcm 21:00, Rcm 22:58, Sco 00:50, Cy 02:57 ** Mars 18:49 20:25 At Point Zero/RISE SET: Sun 05:52 18:00, Moon 22:13 09:45, Mrc 04:53 16:56, Vns 05:59 15:01, Mars 11:18 23:48, Jup 08:33 20:36, Strm 03:06 15:08, Ura 06:50 18:53, Nep 03:14 15:17, Plu 23:35 11:42 ** MoonPhase 38.73%
May 10	Sat	Transit: Gcm 21:00, Rcm 22:58, Sco 00:50, Cy 02:57 ** Mars 18:49 20:25 At Point Zero/RISE SET: Sun 05:52 18:00, Moon 22:13 09:45, Mrc 04:53 16:56, Vns 05:59 15:01, Mars 11:18 23:48, Jup 08:33 20:36, Strm 03:06 15:08, Ura 06:50 18:53, Nep 03:14 15:17, Plu 23:35 11:42 ** MoonPhase 38.73%
W21	Sat	Transit: Gcm 21:00, Rcm 22:58, Sco 00:50, Cy 02:57 ** Mars 18:49 20:25 At Point Zero/RISE SET: Sun 05:52 18:00, Moon 22:13 09:45, Mrc 04:53 16:56, Vns 05:59 15:01, Mars 11:18 23:48, Jup 08:33 20:36, Strm 03:06 15:08, Ura 06:50 18:53, Nep 03:14 15:17, Plu 23:35 11:42 ** MoonPhase 38.73%
May 17		