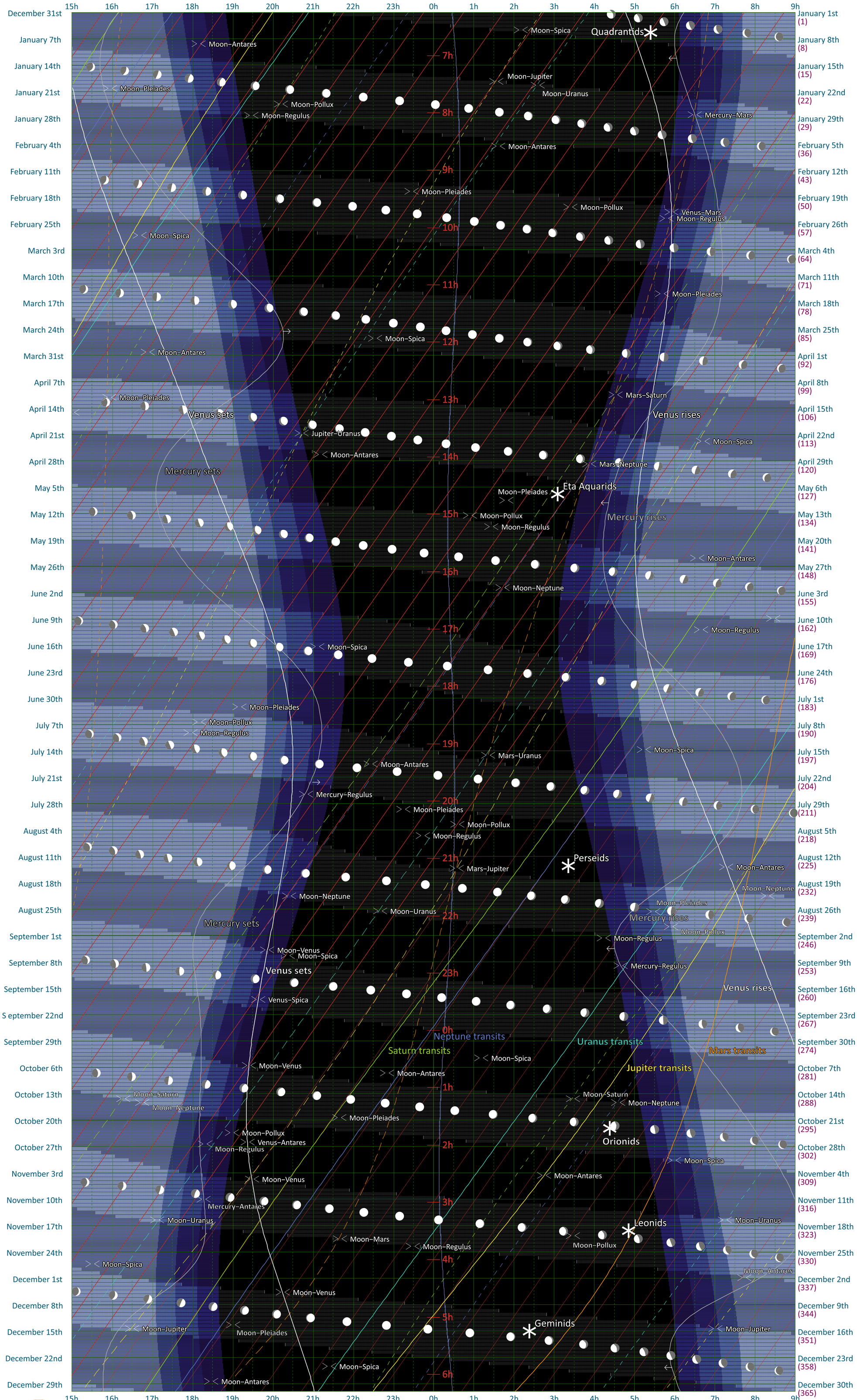
Αστρονομικό Αλμανάκ 2024

Άρης Μυλωνάς

23.70° East, 38.00° North

Standard Time — Evening — Morning

Julian day at 0h ST = (2460309.4167) +



Main Phenomena

Standard Time

January 1st, 17:28 : Moon at apogee (D = 404909 km)
January 3rd : The Earth at its perihelion (D = 0.983 AU)
January 4th, 05:30 : LAST QUARTER OF THE MOON
January 5th, 02:10 : the Moon is 1.6° from Spica
January 8th, 18:09 : the Moon is 0.3° from Antares
January 11th, 13:57 : NEW MOON
January 13th : Greatest western elong. of Mercury (23.5°)
January 13th, 12:35 : Moon at perigee (D = 362267 km)
January 18th, 05:52 : FIRST QUARTER OF THE MOON
January 18th, 21:30 : the Moon is 2.4° from Jupiter
January 19th, 18:51 : the Moon is 2.5° from Uranus
January 20th, 15:57 : the Moon is 1.4° from the Pleiades
January 24th, 20:12 : the Moon is 1.9° from Pollux
January 25th, 19:54 : FULL MOON
January 27th, 17:59 : Mercury is 0.2° from Mars
January 27th, 19:28 : the Moon is 3.1° from Regulus
January 29th, 10:14 : Moon at apogee (D = 405777 km)
February 1st, 11:56 : the Moon is 0.7° from Spica
February 3rd, 01:18 : LAST QUARTER OF THE MOON
February 5th, 01:37 : the Moon is 0.2° from Antares
February 10th, 00:59 : NEW MOON
February 10th, 20:49 : Moon at perigee (D = 358088 km)
February 16th, 17:01 : FIRST QUARTER OF THE MOON
February 16th, 23:27 : the Moon is 0.8° from the Pleiades
February 21st, 03:25 : the Moon is 2.2° from Pollux
February 22nd, 11:45 : Venus is 0.6° from Mars
February 24th, 05:48 : the Moon is 2.5° from Regulus
February 24th, 14:30 : FULL MOON
February 25th, 16:59 : Moon at apogee (D = 406312 km)
February 28th, 16:41 : the Moon is 1.0° from Spica
March 3rd, 12:18 : the Moon is 0.3° from Antares
March 3rd, 17:24 : LAST QUARTER OF THE MOON
March 8th, 21:40 : the Moon is 3.2° from Venus
March 10th, 09:06 : Moon at perigee (D = 356895 km)
March 10th, 11:00 : NEW MOON
March 15th, 05:41 : the Moon is 1.3° from the Pleiades
March 17th, 06:11 : FIRST QUARTER OF THE MOON
March 19th, 08:41 : the Moon is 2.3° from Pollux
March 20th, 05:06 : SPRING EQUINOX
March 22nd, 09:41 : the Moon is 2.6° from Regulus
March 23rd, 17:44 : Moon at apogee (D = 406294 km)
March 24th : Greatest eastern elong. of Mercury (18.6°)
March 25th, 09:00 : FULL MOON
March 26th, 22:33 : the Moon is 0.9° from Spica
March 30th, 16:53 : the Moon is 0.1° from Antares
April 2nd, 05:15 : LAST QUARTER OF THE MOON
April 7th, 19:51 : the Moon is 0.1° from Venus
April 7th, 19:53 : Moon at perigee (D = 358850 km)
April 8th, 20:21 : NEW MOON
April 10th, 22:39 : Mars is 0.4° from Saturn
April 11th, 15:56 : the Moon is 0.6° from the Pleiades
April 15th, 15:01 : the Moon is 1.7° from Pollux
April 15th, 21:13 : FIRST QUARTER OF THE MOON
April 18th, 14:32 : the Moon is 3.1° from Regulus
April 20th, 04:09 : Moon at apogee (D = 405623 km)
April 21st, 05:06 : Jupiter is 0.5° from Uranus
April 23rd, 06:42 : the Moon is 0.5° from Spica
April 24th, 01:49 : FULL MOON
April 26th, 21:11 : the Moon is 0.1° from Antares
April 29th, 06:32 : Mars is 0.0° from Neptune
May 1st, 13:27 : LAST QUARTER OF THE MOON
May 6th, 00:11 : Moon at perigee (D = 363163 km)
May 7th, 17:50 : the Moon is 3.0° from Venus
May 8th, 05:22 : NEW MOON
May 8th : Mars at its perihelion (D = 1.382 AU)
May 9th, 01:49 : the Moon is 1.3° from the Pleiades
May 10th : Greatest western elong. of Mercury (26.2°)
May 13th, 00:54 : the Moon is 2.4° from Pollux
May 15th, 13:48 : FIRST QUARTER OF THE MOON
May 16th, 01:26 : the Moon is 2.4° from Regulus
May 17th, 20:59 : Moon at apogee (D = 404640 km)
May 20th, 12:03 : the Moon is 1.0° from Spica
May 23rd, 15:53 : FULL MOON
May 24th, 06:33 : the Moon is 0.3° from Antares
May 30th, 19:13 : LAST QUARTER OF THE MOON
June 1st, 04:48 : the Moon is 0.8° from Neptune
June 2nd, 09:23 : Moon at perigee (D = 368102 km)
June 5th, 11:18 : the Moon is 0.7° from the Pleiades
June 6th, 14:38 : NEW MOON
June 9th, 08:27 : the Moon is 2.1° from Pollux
June 12th, 06:39 : the Moon is 2.5° from Regulus
June 14th, 07:18 : FIRST QUARTER OF THE MOON
June 14th, 15:36 : Moon at apogee (D = 404077 km)
June 16th, 21:07 : the Moon is 0.4° from Spica
June 20th, 12:40 : the Moon is 0.2° from Antares
June 20th, 22:51 : SUMMER SOLSTICE
June 22nd, 03:08 : FULL MOON
June 27th, 13:45 : Moon at perigee (D = 369286 km)
June 28th, 23:53 : LAST QUARTER OF THE MOON
July 2nd, 19:10 : the Moon is 1.0° from the Pleiades
July 5th : The Earth at its aphelion (D = 1.017 AU)
July 6th, 00:57 : NEW MOON
July 6th, 18:10 : the Moon is 2.4° from Pollux
July 6th, 20:29 : the Moon is 3.1° from Venus
July 9th, 17:57 : the Moon is 2.3° from Regulus
July 12th, 10:12 : Moon at apogee (D = 404362 km)
July 14th, 00:49 : FIRST QUARTER OF THE MOON
July 14th, 05:14 : the Moon is 0.3° from Spica
July 15th, 16:22 : Mars is 0.5° from Uranus
July 17th, 22:26 : the Moon is 0.7° from Antares
July 21st, 12:17 : FULL MOON
July 22nd : Greatest eastern elong. of Mercury (26.9°)
July 23rd, 07:35 : OPPOSITION of Pluto with the Sun
July 24th, 07:43 : Moon at perigee (D = 364917 km)
July 25th, 23:46 : Mercury is 2.2° from Regulus
July 28th, 04:51 : LAST QUARTER OF THE MOON
July 29th, 23:15 : the Moon is 1.0° from the Pleiades
August 3rd, 00:36 : the Moon is 2.5° from Pollux
August 4th, 13:13 : NEW MOON
August 5th, 23:45 : the Moon is 1.9° from Regulus
August 6th, 01:02 : the Moon is 0.9° from Venus
August 9th, 03:32 : Moon at apogee (D = 405297 km)
August 10th, 11:10 : the Moon is 0.4° from Spica
August 12th, 17:19 : FIRST QUARTER OF THE MOON
August 14th, 07:17 : the Moon is 0.2° from Antares
August 14th, 16:59 : Mars is 0.3° from Jupiter
August 19th, 20:26 : FULL MOON
August 21st, 07:05 : Moon at perigee (D = 360196 km)
August 21st, 23:37 : the Moon is 0.2° from Neptune
August 25th, 22:28 : the Moon is 3.4° from Uranus
August 26th, 05:28 : the Moon is 0.2° from the Pleiades
August 26th, 11:26 : LAST QUARTER OF THE MOON
August 30th, 05:55 : the Moon is 1.9° from Pollux
September 2nd, 04:15 : the Moon is 2.4° from Regulus
September 3rd, 03:55 : NEW MOON
September 5th : Greatest western elong. of Mercury (18.1°)
September 5th, 08:48 : the Moon is 1.2° from Venus
September 5th, 16:55 : Moon at apogee (D = 406211 km)
September 6th, 20:22 : the Moon is 0.3° from Spica
September 8th, 06:35 : OPPOSITION of Saturn with the Sun
September 9th, 10:40 : Mercury is 0.5° from Regulus
September 10th, 13:20 : the Moon is 0.7° from Antares
September 11th, 08:06 : FIRST QUARTER OF THE MOON
September 18th, 04:34 : FULL MOON
September 18th, 04:44 : Partial lunar eclipse (> 50% vis.)
September 18th, 11:55 : Venus is 2.4° from Spica
September 18th, 15:26 : Moon at perigee (D = 357286 km)
September 21st, 02:17 : OPPOSITION of Neptune with the Sun
September 22nd, 13:47 : the Moon is 0.5° from the Pleiades
September 22nd, 14:44 : AUTUMN EQUINOX
September 24th, 20:50 : LAST QUARTER OF THE MOON
September 26th, 12:49 : the Moon is 2.2° from Pollux
September 29th, 13:53 : the Moon is 2.1° from Regulus
October 2nd, 20:49 : NEW MOON
October 2nd, 21:40 : Moon at apogee (D = 406516 km)
October 4th, 01:11 : the Moon is 0.1° from Spica
October 5th, 22:15 : the Moon is 3.4° from Venus
October 7th, 22:51 : the Moon is 0.7° from Antares
October 10th, 20:55 : FIRST QUARTER OF THE MOON
October 14th, 20:27 : the Moon is 0.7° from Saturn
October 15th, 18:39 : the Moon is 0.4° from Neptune
October 17th, 02:46 : Moon at perigee (D = 357175 km)
October 17th, 13:26 : FULL MOON
October 19th, 21:39 : the Moon is 0.5° from the Pleiades
October 23rd, 18:59 : the Moon is 2.4° from Pollux
October 24th, 10:03 : LAST QUARTER OF THE MOON
October 26th, 08:50 : Venus is 3.0° from Antares
October 26th, 18:18 : the Moon is 1.9° from Regulus
October 30th, 00:50 : Moon at apogee (D = 406161 km)
October 31st, 05:59 : the Moon is 0.3° from Spica
November 1st, 14:47 : NEW MOON
November 4th, 02:45 : the Moon is 0.2° from Antares
November 5th, 02:14 : the Moon is 3.3° from Venus
November 9th, 07:56 : FIRST QUARTER OF THE MOON
November 10th, 11:59 : Mercury is 2.0° from Antares
November 14th, 13:18 : Moon at perigee (D = 360109 km)
November 15th, 23:29 : FULL MOON
November 16th, 00:36 : the Moon is 4.0° from Uranus
November 16th, 10:25 : the Moon is 0.6° from the Pleiades
November 16th : Greatest eastern elong. of Mercury (22.4°)
November 17th, 04:44 : OPPOSITION of Uranus with the Sun
November 20th, 03:28 : the Moon is 2.0° from Pollux
November 20th, 22:15 : the Moon is 2.0° from Mars
November 22nd, 23:29 : the Moon is 2.2° from Regulus
November 23rd, 03:28 : LAST QUARTER OF THE MOON
November 26th, 13:56 : Moon at apogee (D = 405314 km)
November 27th, 15:31 : the Moon is 0.4° from Spica
December 1st, 07:44 : the Moon is 0.5° from Antares
December 1st, 08:21 : NEW MOON
December 5th, 02:13 : the Moon is 2.3° from Venus
December 7th, 22:58 : OPPOSITION of Jupiter with the Sun
December 8th, 17:27 : FIRST QUARTER OF THE MOON
December 12th, 15:18 : Moon at perigee (D = 365361 km)
December 13th, 19:01 : the Moon is 0.4° from the Pleiades
December 14th, 18:05 : the Moon is 4.9° from Jupiter
December 15th, 11:02 : FULL MOON
December 17th, 14:05 : the Moon is 2.9° from Pollux
December 20th, 11:12 : the Moon is 1.4° from Regulus
December 21st, 11:20 : WINTER SOLSTICE
December 23rd, 00:18 : LAST QUARTER OF THE MOON
December 24th, 09:25 : Moon at apogee (D = 404485 km)
December 24th, 21:24 : the Moon is 0.1° from Spica
December 25th : Greatest western elong. of Mercury (22.0°)
December 28th, 18:28 : the Moon is 0.5° from Antares
December 31st, 00:27 : NEW MOON

Ορολογία

Perihelion – Περιήλιο: Το πλησιέστερο σημείο της τροχιάς ενός πλανήτη από τον Ήλιο.
Aphelion –Αφήλιο: Το πιο απόμακρο σημείο της τροχιάς ενός πλανήτη από τον Ήλιο.
Perigee – Περίγειο: Το πλησιέστερο σημείο της τροχιάς της Σελήνης από τη Γη.
Apogee – Απόγειο: Το πιο απόμακρο σημείο της τροχιάς της Σελήνης από τη Γη.
Inferior Conjunction – Κατώτερη Σύνοδος: Συμβαίνει όταν ένας εσωτερικός πλανήτης (ο Ερμής ή, η Αφροδίτη) βρίσκεται μεταξύ Γης και Ήλιου και στο πλησιέστερο σημείο της τροχιάς του προς τη Γη.
Superior Conjunction – Ανώτερη Σύνοδος: Συμβαίνει όταν ένας εσωτερικός πλανήτης (ο Ερμής ή, η Αφροδίτη) βρίσκεται στην αντίθετη πλευρά του Ήλιου και στο πιο απόμακρο σημείο της τροχιάς του προς τη Γη.
Transit - Διάβαση
Greatest Elongation – Μέγιστη Αποχή: Η μέγιστη γωνιώδης απόσταση μεταξύ του Ήλιου και ενός εσωτερικού πλανήτη (του Ερμή ή της Αφροδίτης) όπως παρατηρείται από τη Γη.
- κατά την **Ανατολική Αποχή** ο πλανήτης φαίνεται μετά τη δύση του Ηλίου στον δυτικό ορίζοντα.
- κατά την **Δυτική Αποχή** ο πλανήτης φαίνεται πριν την ανατολή του Ηλίου στον ανατολικό ορίζοντα.

Opposition – Αντίθεση: όταν ένας εξωτερικός πλανήτης βρίσκεται σε μέγιστη αποχή 180 μοίρες από τον Ήλιο.
Conjunction – Σύνοδος: όταν ένας πλανήτης έχει την μικρότερη γωνιώδη απόσταση από τον Ήλιο ή άλλον πλανήτη, όπως φαίνεται από τη Γη.
Occultation – Επιπρόσθηση: το φαινόμενο όπου ένα ουράνιο σώμα (όπως η Σελήνη, πλανήτης, δορυφόρος, αστεροειδής) είναι ικανό να αποκρύψει ένα άλλο ουράνιο σώμα (όπως αστέρα, πλανήτη, δορυφόρο, αστεροειδή).

Aldebaran – Λαμπαδίας: Λαμπρός αστέρας στον αστερισμό του Ταύρου.
Pollux – Πολυδεύκης: Λαμπρός αστέρας στον αστερισμό των Διδύμων.
Regulus –Βασιλίσκος: Λαμπρός αστέρας στον αστερισμό του Λέοντα.
Spica – Στάχυς: Λαμπρός αστέρας στον αστερισμό της Παρθένου.
Antares – Αντάρης: Λαμπρός αστέρας στον αστερισμό του Σκορπιού.
Pleiades – Πούλια: Λαμπρό ανοικτό αστρικό σμήνος στον αστερισμό του Ταύρου.
Moon – Σελήνη: Δορυφόρος της Γης.

Μετεωρικές Βροχές: Quadrantids : Βοωτίδες // Aquarids : Υδροχοΐδες // Perseids : Περσείδες // Orionids : Ωριωνίδες // Leonids : Λεοντίδες // Geminids : Διδυμίδες

Πλανήτες: Mercury : Ερμής // Venus : Αφροδίτη // Mars : Άρης // Jupiter : Δίας // Saturn : Κρόνος // Uranus : Ουρανός // Neptune : Ποσειδώνας