

Celestial Events for 2024

Hōkūlani Imaginarium

Windward Community College

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all times HST

Month	Day	Time	Celestial Event 2024
Jan	1	5:28 am	Moon at apogee (farthest from earth)
	2	2:39 pm	Perihelion (earth closest to sun)
	3	5:30 pm	Last Quarter (Waning Half) Moon
	4	1:00 am - 6:30 am	Quadrantid Meteor Shower peak
	8	4:45 am – 6:45 am	Conjunction of Moon-Venus (6° apart)
	10	7 am	Mercury at highest altitude (20°) in morning sky
	11	1:57 am	New Moon
	11	4:22 am	Perigean Spring (King) Tides (2.51 ft) — Honolulu Harbor
	13	12:35 am	Moon at perigee (closest to earth)
	13	6:30 pm – 8:45 pm	Conjunction of Moon-Saturn (4° apart)
	16	7:10:16 am	Latest sunrise ever occurs in Honolulu
	17	5:52 pm	First Quarter (Waxing Half) Moon
	18	6:30 pm – 1:15 pm	Conjunction of Moon-Jupiter (6° apart)
	25	7:54 am	Full Moon
	27	6:00 am – 6:45 am	Conjunction of Mercury-Mars (0.25° apart)
	28	10:14 pm	Moon at apogee (farthest from earth)
Feb	2	1:18 pm	Last Quarter (Waning Half) Moon
	9	12:59 pm	New Moon Super New Moon: largest new moon (occurs nearest perigee)
	10	8:49 am	Moon at perigee (closest to earth)
	11	12:45:37 pm	Latest “noon”— latest time sun crosses the meridian in Honolulu (latest apparent noon)
	14	6:45 pm - 11:30 pm	Conjunction of Moon-Jupiter (3.2° apart)
	16	5:00 am	First Quarter (Waxing Half) Moon

	21	5:45 am – 6:30 am	Conjunction of Venus-Mars (0.75° apart)
	24	2:30 am	Full Moon Micro Full Moon: smallest full moon (occurs nearest apogee)
	25	5:00 am	Moon at apogee (farthest from earth)
Mar	3	5:23 am	Last Quarter (Waning Half) Moon
	9	9:06 pm	Moon at perigee (closest to earth)
	9	11:00 pm	New Moon Super New Moon: largest new moon (occurs nearest perigee)
	10	2:00 am	Daylight Saving Time begins on mainland [Note: Hawaii does not observe DST]
	12	sunrise 6:40:35 am sunset 6:41:12 pm	Spring Equilux (equilux: equal day & night—12 hrs of daylight & 12 hrs of nighttime) [actual difference between daylight and nighttime = 74 sec]
	13	7:00 pm – 10:10 pm	Conjunction of Moon-Jupiter (4.5° apart)
	14	7:00 pm – 11:15 pm	Conjunction of Moon-Pleiades (0.6° apart)
	16	6:10 pm	First Quarter (Waxing Half) Moon
	19	5:06 pm	Vernal Equinox (first day of spring)
	21	5:45 am – 6:15 am	Conjunction of Venus-Saturn (0.4° apart)
	23	5:44 am	Moon at apogee (farthest from earth)
	24	6:45 pm	Mercury at highest point in evening sky (17° altitude)
	24	6:53 pm – 11:32 pm	Penumbral LUNAR ECLIPSE penumbral begins 6:53 pm penumbral max 9:12 pm penumbral begins 11:32 pm
	24	9:00 pm	Full Moon Micro Full Moon: smallest full moon (occurs nearest apogee)
Apr	1	5:14 pm	Last Quarter (Waning Half) Moon
	6	5:00 am – 6:00 am	Conjunction of Moon-Mars-Saturn (3° apart)
	7	5:45 am – 6:10 am	Conjunction of thinnest crescent Moon-Venus (0.6° apart)
	7	7:53 am	Moon at perigee (closest to earth)
	8	6:33 am – 7:55 am	Partial SOLAR ECLIPSE [Total on Mainland USA] partial begins: 6:33:32 am max: 7:12:59 am partial ends: 7:55:01 am

	8	8:20 am	New Moon Super New Moon: largest new moon (occurs nearest perigee)
	10	4:30 am – 6:00 am	Conjunction of Mars-Saturn (0.5° apart)
	15	9:13 am	First Quarter (Waxing Half) Moon
	19	4:09 pm	Moon at apogee (farthest from earth)
	21	9:30 pm – 5:30 am	Lyrid Meteor Shower peak
	23	1:48 pm	Full Moon
May	1	1:27 am	Last Quarter (Waning Half) Moon
	3	3:15 am – 5:45 am	Conjunction of Moon-Saturn (4.2° apart)
	5	2:00 am - 5:30 am	Eta Aquarid Meteor Shower peak
	5	12:11 pm	Moon at perigee (closest to earth)
	7	5:21 pm	New Moon
	12	5:45 am	Mercury at highest altitude in morning sky (17°)
	15	1:48 am	First Quarter (Waxing Half) Moon
	17	9:00 am	Moon at apogee (farthest from earth)
	18	12:17 pm	Hilo (kau ka lā i ka lolo = “Lāhaina Noon”)
	18	12:21 pm	Kailua-Kona (kau ka lā i ka lolo = “Lāhaina Noon”)
	23	3:53 am	Full Moon
	23	12:21 pm	Hāna (kau ka lā i ka lolo = “Lāhaina Noon”)
	23	12:25 pm	Lāna‘i City (kau ka lā i ka lolo = “Lāhaina Noon”)
	24	12:23 pm	Kahului (kau ka lā i ka lolo = “Lāhaina Noon”)
	24	12:24 pm	Lāhaina (kau ka lā i ka lolo = “Lāhaina Noon”)
	25	12:25 pm	Kaunakakai (kau ka lā i ka lolo = “Lāhaina Noon”)
	26	12:29 pm	Honolulu (kau ka lā i ka lolo = “Lāhaina Noon”)
	27	12:29 pm	Kāne‘ohe (kau ka lā i ka lolo = “Lāhaina Noon”)
	30	7:12 am	Last Quarter (Waning Half) Moon
	30	12:35 pm	Līhue (kau ka lā i ka lolo = “Lāhaina Noon”)
Jun	1	9:23 pm	Moon at perigee (closest to earth)
	2	3:15 am – 5:30 am	Conjunction of Moon-Mars (3.5° apart)
	4	5:10 am – 5:40 am	Conjunction of Mercury-Jupiter (0.4° apart)
	6	2:37 am	New Moon

	6	5:47:26 am	Earliest sunrise ever occurs in Honolulu
	13	7:18 pm	First Quarter (Waxing Half) Moon
	14	3:36 am	Moon at apogee (farthest from earth)
	20	10:50 am	Summer Solstice (first day of summer) Honolulu sunrise 5:49:05 am; sunset 7:17:22 pm Longest Day: 13h 28m 17s
	21	3:07 pm	Full Moon
	26	11:45 pm – 5:30 am	Conjunction of Moon-Saturn (0.4° apart)
	27	1:45 am	Moon at perigee (closest to earth)
	28	11:53 am	Last Quarter (Waning Half) Moon
Jul	1	2:30 am – 5:30 am	Conjunction of Moon-Mars (3.5° apart)
	2	3:00 am – 5:30 am	Conjunction of Moon-Pleiades (0.75° apart)
	3	7:18:53 pm	Latest sunset ever occurs in Honolulu
	4	3:40 am	Perigean Spring (King) Tides (2.50 ft) — Honolulu Harbor
	4	7:06 pm	Aphelion (earth farthest from sun)
	5	12:57 pm	New Moon
	11	12:43 pm	Līhue (kau ka lā i ka lolo = “Lāhaina Noon”)
	11	10:12 pm	Moon at apogee (farthest from earth)
	13	12:48 pm	First Quarter (Waxing Half) Moon
	14	12:37 pm	Kāne‘ohe (kau ka lā i ka lolo = “Lāhaina Noon”)
	15	12:38 pm	Honolulu (kau ka lā i ka lolo = “Lāhaina Noon”)
	16	12:35 pm	Kaunakakai (kau ka lā i ka lolo = “Lāhaina Noon”)
	16	7:15 pm	Mercury at highest altitude in evening sky (20°)
	17	12:32 pm	Kahului (kau ka lā i ka lolo = “Lāhaina Noon”)
	17	12:33 pm	Lāhaina (kau ka lā i ka lolo = “Lāhaina Noon”)
	18	12:30 pm	Hāna (kau ka lā i ka lolo = “Lāhaina Noon”)
	18	12:34 pm	Lāna‘i City (kau kā la i ka lolo = “Lāhaina Noon”)
	21	12:17 am	Full Moon
	21	4:42 pm	Perigean Spring (King) Tides (2.57 ft) — Honolulu Harbor
	23	12:27 pm	Hilo (kau ka lā i ka lolo = “Lāhaina Noon”)
	23	12:31 pm	Kailua-Kona (kau ka lā i ka lolo = “Lāhaina Noon”)
	23	7:43 pm	Moon at perigee (closest to earth)

	23	10:00 pm – 5:45 am	Conjunction of Moon-Saturn (3.4° apart)
	27	4:51 pm	Last Quarter (Waning Half) Moon
	28	9:00 pm - 5:30 am	Delta Aquariid Meteor Shower peak
	30	2:15 am – 5:45 am	Conjunction of Moon-Mars-Jupiter-Aldebaran (5.5° apart) [diamond formation]
Aug	4	1:13 am	New Moon
	8	3:32 pm	Moon at apogee (farthest from earth)
	12	5:18 am	First Quarter (Waxing Half) Moon
	12	10:00 pm – 5:30 am	Perseid Meteor Shower peak
	15	1:00 am – 5:45 am	Conjunction of Mars-Jupiter (0.5° apart)
	19	8:25 am	Full Moon Blue Moon: third Full Moon in a season with four Full Moons
	20	7:05 pm	Moon at perigee (closest to earth)
	20	8:15 pm – 6:00 am	Conjunction of Moon-Saturn (3.3° apart)
	24	11:30 pm – 6:00 am	Conjunction of Moon-Pleiades (6.5° apart)
	25	11:25 pm	Last Quarter (Waning Half) Moon
	27	1:15 am – 6:00 am	Conjunction of Moon-Mars-Jupiter (6.5° apart) [triangular formation]
	31	1:00 pm – 5:30 am	Aurigid Meteor Shower peak
Sep	2	3:55 pm	New Moon
	4	7:00 pm – 7:45 pm	Conjunction of Moon-Venus (2.7° apart)
	5	6:15 am	Mercury at highest altitude in morning sky (17°)
	5	4:55 am	Moon at apogee (farthest from earth)
	10	8:05 pm	First Quarter (Waxing Half) Moon
	16	7:45 pm – 5:30 am	Conjunction of Moon-Saturn (0.5° apart)
	17	4:34 pm	Full Moon Super Full Moon: largest/brightest full moon (occurs nearest perigee)

	17	6:35 pm – 6:47 pm	Penumbral LUNAR ECLIPSE [partial eclipse on Mainland USA] begins: 6:35 pm (moonrise) local max: 6:37 pm ends: 6:47 pm
	18	3:26 am	Moon at perigee (closest to earth)
	21	9:45 pm – 5:30 am	Conjunction of Moon-Pleiades (0.2° apart)
	22	2:43 am	Autumnal Equinox (first day of Fall)
	22	11:00 pm – 6:00 am	Conjunction of Moon-Jupiter (7.0° apart)
	24	8:49 am	Last Quarter (Waning Half) Moon
	25	12:30 am – 6:15 am	Conjunction of Moon-Mars (5.5° apart)
	27	5:35 am - 6:05 am	Comet C/2023 A3 (Tsuchinshan-ATLAS) at perihelion; altitude 15° in morning sky; visible Sep 18 – Oct 4
	29	sunrise 6:21:12 am sunset 6:21:38 pm	Fall Equilux (equilux: equal day & night—12 hrs of daylight & 12 hrs of nighttime) [actual difference between daylight and nighttime = 52 sec]
Oct	2	6:23 am – 7:53 am	Partial SOLAR ECLIPSE [Annual Solar Eclipse in South Pacific] partial begins: 6:23:07 am (sunrise) max: 6:45:55 am partial ends: 7:52:52 am
	2	8:49 am	New Moon Micro New Moon: smallest new moon (occurs nearest apogee)
	2	9:40 am	Moon at apogee (farthest from earth)
	5	6:30 pm – 7:45 pm	Conjunction of Moon-Venus (5.4° apart)
	8	6 pm - 1 am	Draconid Meteor Shower peak
	10	8:55 am	First Quarter (Waxing Half) Moon
	12	6:30 pm - 7:55 pm	Comet C/2023 A3 (Tsuchinshan-ATLAS) at perigee; altitude 9° in evening sky; visible Oct 12 – Dec 15
	13	6:15 pm – 3:25 am	Conjunction of Moon-Saturn (4.4° apart)
	16	2:46 pm	Moon at perigee (closest to earth)
	17	1:26 am	Full Moon Super Full Moon: largest/brightest full moon (occurs nearest perigee)

	18	8:00 pm – 6:15 am	Conjunction of Moon-Pleiades (3.4° apart)
	20	9:15 pm – 6:15 am	Conjunction of Moon-Jupiter (6° apart)
	20	10:30 pm - 6:00 am	Orionid Meteor Shower peak
	22	11:40 pm – 6:15 am	Conjunction of Moon-Mars (4.7° apart)
	23	10:03 pm	Last Quarter (Waning Half) Moon
	29	12:50 pm	Moon at apogee (farthest from earth)
Nov	1	2:47 am	New Moon
	2	12:14:58 pm	Earliest “noon”—earliest time sun crosses the meridian in Honolulu (earliest apparent noon)
	3	2:00 am	Daylight Saving Time ends on mainland [Hawaii does not observe DST]
	4	6:00 pm – 8:15 pm	Conjunction of Moon-Venus (4° apart)
	8	7:55 pm	First Quarter (Waxing Half) Moon
	10	6:15 pm – 1:45 am	Conjunction of Moon-Saturn (1.8° apart)
	11	7:00 pm - 6:00 am	North Taurid Meteor Shower peak
	14	1:18 am	Moon at perigee (closest to earth)
	15	11:28 am	Full Moon
	15	6:00 pm – 6:30 am	Conjunction of Moon-Pleiades (0.5° apart)
	16	7:30 pm – 6:15 am	Conjunction of Moon-Jupiter (5.5° apart)
	17	12:30 am - 6:00 am	Leonid Meteor Shower peak
	17	5:49 pm	Pleiades rise at sunset (first condition needed for declaring start of Makahiki; must wait until the sighting of first visible crescent moon after this date)
	18	5:50 pm	Mercury at highest point in evening sky (15° altitude)
	19	11:30 pm – 6:30 am	Conjunction of Moon-Mars (4.3° apart)
	22	3:27 pm	Last Quarter (Waning Half) Moon

	26	1:56 am	Moon at apogee (farthest from earth)
	26	5:49:24 pm	Earliest sunset ever occurs in Honolulu
	30	8:21 pm	New Moon Black Moon: second New Moon in a calendar month
Dec	1	sunset	Beginning of Makahiki with sighting of first visible crescent moon (Hilo moon) after rise of Pleiades (this unofficially could be consider beginning of Makahiki; technically someone must visually sight the first crescent moon that occurs after the Mahakihi rise at sunset)
	4	6:00 pm – 8:45 pm	Conjunction of Moon-Venus (3.3° apart)
	7	6:00 pm – 12:05 am	Conjunction of Moon-Saturn (0.5° apart)
	8	5:26 am	First Quarter (Waxing Half) Moon
	12	3:18 am	Moon at perigee (closest to earth)
	12	6:15 pm – 5:15 am	Conjunction of Moon-Pleiades (3° apart)
	13	6:00 pm – 6:15 am	Conjunction of Moon-Jupiter (6° apart)
	13	7:00 pm – 6:30 am	Geminid Meteor Shower peak
	14	11:01 pm	Full Moon
	17	8:45 pm – 6:45 am	Conjunction of Moon-Mars (1° apart)
	20	11:20 pm	Winter Solstice (first day of winter) Honolulu sunrise 7:03:09 am; sunset 5:55:45 pm Shortest Day: 10h 52m 36s
	21	7:00 pm – 6:39 am	Ursid Meteor Shower peak
	22	12:18 pm	Last Quarter (Waning Half) Moon
	23	7:00 am	Mercury at highest altitude in morning sky (20°)
	23	9:25 pm	Moon at apogee (farthest from earth)
	30	12:26 pm	New Moon