

Celestial Events for 2021

Hökūlani Imaginarium

Windward Community College

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all times HST

Month	Day	Time	Celestial Event 2021
Jan	2	3:51 am	Perihelion (earth closest to sun)
	5	11:37 pm	Last Quarter (Waning Half) Moon
	3	4:30 am peak	Quadrantid Meteor Shower
	9	5:39 am	Moon at perigee (closest to earth)
	10	6:30 pm	Conjunction of Mercury-Jupiter-Saturn (2.1° apart)
	11	6:15 am	Conjunction of Venus & Moon (1.5° apart)
	12	3:50 am	Perigean Spring (King) Tides (2.47 ft) — Honolulu Harbor
	12	7:00 pm	New Moon
	20	11:01 am	First Quarter (Waxing Half) Moon
	21	3:11 am	Moon at apogee (farthest from earth)
	28	9:16 am	Full Moon
Feb	3	9:33 am	Moon at perigee (closest to earth)
	4	7:37 am	Last Quarter (Waning Half) Moon
	11	9:05 am	New Moon
	18	12:22 am	Moon at apogee (farthest from earth)
	19	8:47 am	First Quarter (Waxing Half) Moon
	26	10:17 pm	Full Moon
Mar	1	7:19 pm	Moon at perigee (closest to earth)
	4	5:45 am	Conjunction of Mercury & Jupiter (0.3° apart)
	5	3:30 pm	Last Quarter (Waning Half) Moon
	13	sunrise 6:40:05 am sunset 6:40:35 pm	Spring Equinox (equinox: equal day & night—12 hrs of daylight & 12 hrs of nighttime)
	13	12:21 am	New Moon
	17	7:04 pm	Moon at apogee (farthest from earth)
	19	7:15 pm to midnight	Conjunction of Mars & Moon (1.9° apart)
	19	11:37 pm	Vernal Equinox (first day of spring)
	21	4:40 am	First Quarter (Waxing Half) Moon
	28	8:48 am	Full Moon
	29	8:12 pm	Moon at perigee (closest to earth)
Apr	4	12:02 am	Last Quarter (Waning Half) Moon
	11	4:30 pm	New Moon
	14	7:47 am	Moon at apogee (farthest from earth)

Apr	17	7:30 pm to 10:30 pm	Conjunction of Mars & Moon (0.1° apart)
	19	8:58 pm	First Quarter (Waxing Half) Moon
	22	3:00 am	Lyrid Meteor Shower
	26	5:31 pm	Full Moon Super Full Moon: largest/brightest full moon that occurs nearest perigee
	27	5:24 am	Moon at perigee (closest to earth)
May	3	9:50 am	Last Quarter (Waning Half) Moon
	6	after sunset	Eta Aquarid Meteor Shower
	11	8:59 am	New Moon Micro New Moon: smallest new moon that occurs nearest apogee
	11	11:54 am	Moon at apogee (farthest from earth)
	13	7:30 pm to 8:30 pm	Conjunction of Mercury & Moon (2.1° apart)
	15	7:30 am to 10:30 pm	Conjunction of Mars & Moon (1.5° apart)
	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”)
	19	9:12 am	First Quarter (Waxing Half) 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”)
	25	3:52 pm	Moon at perigee (closest to earth)
	26	1:18 am max	TOTAL LUNAR ECLIPSE partial begins: 11:44 pm May 25 total starts: 1:11 am May 26 max: 1:18 am May 26 totality ends: 1:25 am May 26 partial ends: 2:52 am May 26
	26	1:14 am	Full Moon Super Full Moon: largest/brightest full moon that occurs nearest perigee
	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”)
	28	7:45 pm	Conjunction of Mercury & Moon (0.4° apart)
	30	12:35 pm	Līhue (kau ka lā i ka lolo = “Lāhaina Noon”)
Jun	1	9:24 pm	Last Quarter (Waning Half) Moon
	7	4:27 pm	Moon at apogee (farthest from earth)

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Jun	10	12:52 am	New Moon
	11	7:45 pm	Conjunction of Venus & Moon (1.5° apart)
	13	7:45 pm to 9:45 pm	Conjunction of Mars & Moon (2.8° apart)
	17	5:54 pm	First Quarter (Waxing Half) Moon
	20	5:32 pm	Summer Solstice (first day of summer)
	22	11:58 pm	Moon at perigee (closest to earth)
	24	8:39 am	Full Moon
	24	4:27 pm	Perigean Spring (King) Tides (2.65 ft) — Honolulu Harbor
Jul	1	11:10 am	Last Quarter (Waning Half) Moon
	5	12:27 pm	Aphelion (earth farthest from sun)
	5	4:48 am	Moon at apogee (farthest from earth)
	9	3:16 pm	New Moon
	12	12:43 pm	Līhue (kau ka lā i ka lolo = “Lāhaina Noon”)
	12	7:45 pm to 9:00 pm	Conjunction of Venus & Mars (0.5° apart)
	14	12:39 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”)
	17	12:10 am	First Quarter (Waxing Half) Moon
	17	12:33 pm	Lāhaina (kau ka lā i ka lolo = “Lāhaina Noon”)
	18	12:32 pm	Kahului (kau ka lā i ka lolo = “Lāhaina Noon”)
	18	12:34 pm	Lāna‘i City (kau kā la i ka lolo = “Lāhaina Noon”)
	19	12:30 pm	Hāna (kau ka lā i ka lolo = “Lāhaina Noon”)
	21	12:30 am	Moon at perigee (closest to earth)
	22	3:28 pm	Perigean Spring (King) Tides (2.63 ft) — Honolulu Harbor
	23	4:36 pm	Full Moon
	24	12:27 pm	Hilo (kau ka lā i ka lolo = “Lāhaina Noon”)
	24	12:31 pm	Kailua-Kona (kau ka lā i ka lolo = “Lāhaina Noon”)
	30	after sunset	Delta Aquarid Meteor Shower
	31	3:15 am	Last Quarter (Waning Half) Moon
Aug	1	9:35 pm	Moon at apogee (farthest from earth)
	8	3:50 am	New Moon
	12	after sunset	Perseid Meteor Shower
	15	5:19 am	First Quarter (Waxing Half) Moon
	16	11:23 pm	Moon at perigee (closest to earth)

Aug	20	3:10 pm	Perigean Spring (King) Tides (2.50 ft) — Honolulu Harbor
	22	2:01 am	Full Moon Blue Moon: second Full Moon in a single calendar month
	29	4:22 pm	Moon at apogee (farthest from earth)
	29	9:13 pm	Last Quarter (Waning Half) Moon
Sep	6	2:51 pm	New Moon
	11	12:05 am	Moon at perigee (closest to earth)
	13	10:39 am	First Quarter (Waxing Half) Moon
	20	1:54 pm	Full Moon
	22	9:21 am	Autumnal Equinox (first day of fall)
	26	11:44 am	Moon at apogee (farthest from earth)
	27	sunrise 6:21:47 am sunset 6:21:44 pm	Fall Equilux (equilux: equal day & night—12 hrs of daylight & 12 hrs of nighttime)
	28	3:57 pm	Last Quarter (Waning Half) Moon
Oct	6	1:05 am	New Moon
	8	before sunrise	Draconid Meteor Shower
	8	7:28 am	Moon at perigee (closest to earth)
	10	after sunset	South Taurid Meteor Shower
	12	5:25 pm	First Quarter (Waxing Half) Moon
	20	4:56 am	Full Moon
	21	after sunset	Orionid Meteor Shower
	24	5:30 am	Moon at apogee (farthest from earth)
	28	10:05 am	Last Quarter (Waning Half) Moon
Nov	3	5:45 am	Conjunction of Mercury & Moon (1.2° apart)
	4	11:14 am	New Moon Super New Moon: largest New Moon that occurs nearest perigee
	5	12:23 pm	Moon at perigee (closest to earth)
	6	5:15 am	Perigean Spring (King) Tides (2.51 ft) — Honolulu Harbor
	7	6:15 pm	Conjunction of Venus & Moon (1.1° apart)
	11	2:45 am	First Quarter (Waxing Half) Moon
	12	after sunset	North Taurid Meteor Shower

Nov	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)
	17	after sunset	Leonid Meteor Shower
	18	10:57 pm	Full Moon Micro Full Moon: smallest/dimmest full moon that occurs nearest apogee
	18	11:02 pm max	PARTIAL LUNAR ECLIPSE partial begins: 8:02 pm Nov 18 max (97.4%): 11:02 pm Nov 18 partial ends: 2:03 am Nov 19
	20	4:14 pm	Moon at apogee (farthest from earth)
	27	2:27 am	Last Quarter (Waning Half) Moon
Dec	3	9:43 pm	New Moon Super New Moon: largest New Moon that occurs nearest perigee
	4	12:01 am	Moon at perigee (closest to earth)
	4	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)
	5	5:02 am	Perigean Spring (King) Tides (2.65 ft) — Honolulu Harbor
	6	5:45 am	Conjunction of Mars & Moon (0.7° apart)
	6	6:15 pm	Conjunction of Venus & Moon (1.9° apart)
	10	3:35 pm	First Quarter (Waxing Half) Moon
	13	9:00 pm peak	Geminid Meteor Shower
	17	4:16 pm	Moon at apogee (farthest from earth)
	18	6:35 pm	Full Moon Micro Full Moon: smallest/dimmest full moon that occurs nearest apogee
	21	5:59 am	Winter Solstice (first day of winter)
	22	before sunrise	Ursid Meteor Shower
	26	4:23 pm	Last Quarter (Waning Half) Moon
	31	5:15 am	Conjunction of Mars & Moon (1.0° apart)