

Celestial Events for 2018

Hökūlani Imaginarium

Windward Community College

Joseph Ciotti

all times HST

Month	Day	Time	Celestial Event 2018
Jan	1	11:54 am	Moon at perigee (closest to earth)
	1	4:24 pm	Full Moon Super Full Moon: largest/brightest full moon that occurs nearest perigee
	2	4:32 am	Perigean Spring Tides (2.6 ft) — also called King Tide
	2	7:35 pm	Perihelion (earth closest to sun)
	3	best after midnight	Quadrantid Meteor Shower peak
	7	4 am	Mars & Jupiter conjunction: 0.3° apart
	8	12:25 pm	Last Quarter (Waning Half) Moon
	14	4:10 pm	Moon at apogee (farthest from earth)
	16	4:17 pm	New Moon Micro New Moon: smallest new moon that occurs nearest apogee
	24	12:20 pm	First Quarter (Waxing Half) Moon
	29	11:54 pm	Moon at perigee (closest to earth)
	31	3:27 am	Full Moon Super Blue Moon Blue Moon: second Full Moon in same calendar moon. Also ... Super Full Moon: largest/brightest full moon that occurs nearest perigee
	31	3:30 am (max)	TOTAL LUNAR ECLIPSE 1:48 am to 5:12 am
Feb		entire month	Black Moon A calendar month without a Full Moon: About once every 20 years, February does not have a Full Moon . Instead, January and March each have 2 Full Moons (Blue Moons). The last Black Moon occurred in 1999.
	7	5:53 am	Last Quarter (Waning Half) Moon
	11	4:16 am	Moon at apogee (farthest from earth)
	15	11:05 am	New Moon
	22	10:09 pm	First Quarter (Waxing Half) Moon
	27	4:48 am	Moon at perigee (closest to earth)
Mar	1	2:51 pm	Full Moon
	5	7:15 pm	Venus & Mercury conjunction: 1.6° apart
	9	1:19 am	Last Quarter (Waning Half) Moon

revised 10-2-2018

	10	11:13 pm	Moon at apogee (farthest from earth)
	14	sunrise 6:41 am sunset 6:41 pm	Spring Equilux (equilux: equal day & night—12 hrs of daylight & 12 hrs of nighttime)
	17	3:11 am	New Moon
	20	6:15 am	Vernal Equinox (first day of spring)
	24	5:35 am	First Quarter (Waxing Half) Moon
	26	7:17 am	Moon at perigee (closest to earth)
	31	2:36 am	Full Moon Blue Moon: second Full Moon in same calendar moon
Apr	2	2 am	Mars & Saturn conjunction: 1.3° apart
	7	7:32 pm	Moon at apogee (farthest from earth)
	7	9:17 pm	Last Quarter (Waning Half) Moon
	15	3:57 pm	New Moon
	20	4:44 am	Moon at perigee (closest to earth)
	22	best after midnight	Lyrid Meteor Shower peak
	22	11:45 am	First Quarter (Waxing Half) Moon
	29	2:58 pm	Full Moon
May	5	2:35 pm	Moon at apogee (farthest from earth)
	6	best after midnight	Eta Aquarid Meteor Shower peak
	7	4:08 pm	Last Quarter (Waning Half) Moon
	15	1:47 am	New Moon
	17	11:06 am	Moon at perigee (closest to 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”)
	21	5:49 pm	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”)
	26	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	12:28 pm	Kāne‘ohe (kau ka lā i ka lolo = “Lāhaina Noon”)
	29	4:19 am	Full Moon
	31	12:35 pm	Līhue (kau ka lā i ka lolo = “Lāhaina Noon”)
Jun	2	6:34 am	Moon at apogee (farthest from earth)
	6	8:31 am	Last Quarter (Waning Half) Moon
	13	9:43 am	New Moon Super New Moon: largest new moon that occurs nearest perigee
	14	1:55 pm	Moon at perigee (closest to earth)

revised 10-2-2018

	20	12:50 am	First Quarter (Waxing Half) Moon
	21	12:07 am	Summer Solstice (first day of summer)
	27	6:53 pm	Full Moon Micro Full Moon: smallest/dimmest full moon that occurs nearest apogee
	29	4:43 pm	Moon at apogee (farthest from earth)
Jul	5	9:50 pm	Last Quarter (Waning Half) Moon
	6	6:47 am	Aphelion (earth farthest from sun)
	11	12:43 pm	Lihue (kau ka lā i ka lolo = "Lāhaina Noon")
	12	4:09 pm	Perigean Spring Tides (2.6 ft) — also called King Tide
	12	4:47 pm	New Moon Super New Moon: largest new moon that occurs nearest perigee
	12	10:28 pm	Moon at perigee (closest to earth)
	15	12:37 pm	Kāne‘ohe (kau ka lā i ka lolo = "Lāhaina Noon")
	16	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")
	18	12:32 pm	Kahului (kau ka lā i ka lolo = "Lāhaina Noon")
	18	12:33 pm	Lāhaina (kau ka lā i ka lolo = "Lāhaina Noon")
	19	9:52 am	First Quarter (Waxing Half) Moon
	19	12:30 pm	Hāna (kau ka lā i ka lolo = "Lāhaina Noon")
	19	12:34 pm	Lāna‘i City (kau kā la i ka lolo = "Lāhaina Noon")
	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")
	26	7:44 pm	Moon at apogee (farthest from earth)
	27	10:20 am	Full Moon Micro Full Moon: smallest/dimmest full moon that occurs nearest apogee
	28	best after midnight	Delta Aquarid Meteor Shower peak
	31		Mars closest it has come to earth in 15 years magn -2.8 (was a perihelic opposition on July 27)
Aug	4	8:17 am	Last Quarter (Waning Half) Moon
	10	8:05 am	Moon at perigee (closest to earth)
	10	11:58 pm	New Moon Super New Moon: largest new moon that occurs nearest perigee
	12	best after midnight	Perseid Meteor Shower peak
	17	9:48 pm	First Quarter (Waxing Half) Moon
	23	1:23 am	Moon at apogee (farthest from earth)
	26	1:56 am	Full Moon
Sep	2	4:37 pm	Last Quarter (Waning Half) Moon
	7	3:21 pm	Moon at perigee (closest to earth)

revised 10-2-2018

	9	8:01 am	New Moon
	16	1:14 pm	First Quarter (Waxing Half) Moon
	19	2:54 pm	Moon at apogee (farthest from earth)
	22	3:54 pm	Autumnal Equinox (first day of fall)
	24	4:52 pm	Full Moon
	28	sunrise 6:22 am sunset 6:22 pm	Fall Equilux (equilux: equal day & night—12 hrs of daylight & 12 hrs of nighttime)
Oct	1	11:45 pm	Last Quarter (Waning Half) Moon
	5	12:29 pm	Moon at perigee (closest to earth)
	8	5:46 pm	New Moon
	8	best before midnight	Draconid Meteor Shower peak
	16	8:01 am	First Quarter (Waxing Half) Moon
	17	9:16 am	Moon at apogee (farthest from earth)
	21	best after midnight	Orionid Meteor Shower peak
	24	6:45 am	Full Moon
	31	6:40 am	Last Quarter (Waning Half) Moon
	31	10:05 am	Moon at perigee (closest to earth)
Nov	5	best after midnight	South Taurid Meteor Shower peak
	7	6:01 am	New Moon
	12	best after midnight	North Taurid Meteor Shower peak
	14	5:57 am	Moon at apogee (farthest from earth)
	15	4:54 am	First Quarter (Waxing Half) Moon
	17	5:47 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	best after midnight	Leonid Meteor Shower peak
	22	7:39 pm	Full Moon
	26	2:10 am	Moon at perigee (closest to earth)
	29	2:18 pm	Last Quarter (Waning Half) Moon
Dec	6	9:20 pm	New Moon
	7	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)
	12	2:25 am	Moon at apogee (farthest from earth)
	13	best after midnight	Geminid Meteor Shower peak
	15	1:49 am	First Quarter (Waxing Half) Moon

revised 10-2-2018

	18		Comet 46P/Wirtanen (magn 3) closest approach to earth
	21	6 am	Mars & Jupiter conjunction: 0.8° apart
	21	12:23 pm	Winter Solstice (first day of winter)
	22	7:48 am	Full Moon Super Full Moon: largest/brightest full moon that occurs nearest perigee
	21	best after midnight	Ursid Meteor Shower peak
	23	11:52 pm	Moon at perigee (closest to earth)
	28	11:34 pm	Last Quarter (Waning Half) Moon