

Celestial Events for 2016

Hökūlani Imaginarium

Windward Community College

(revised 25-28-2015)

Month	Day	Time (HST)	Celestial Event 2016
Jan	1	7:30 pm	Last Quarter (Waning Half) Moon
	2	1:53 am	Moon at apogee (farthest from earth)
	2	1:00 pm	Perihelion (earth closest to sun)
	3	best after midnight	Quadrantid Meteor Shower peak
	9	6:00 am	Venus & Saturn conjunction: 0.25° apart
	9	3:30 pm	New Moon
	14	4:10 pm	Moon at perigee (closest to earth)
	16	1:26 pm	First Quarter (Waxing Half) Moon
	23	3:46 pm	Full Moon
	29	11:10 pm	Moon at apogee (farthest from earth)
	31	5:28 pm	Last Quarter (Waning Half) Moon
Feb	8	4:39 am	New Moon
	10	4:42 pm	Moon at perigee (closest to earth)
	14	9:46 pm	First Quarter (Waxing Half) Moon
	22	8:20 am	Full Moon
	26	5:28 pm	Moon at apogee (farthest from earth)
Mar	1	1:11 pm	Last Quarter (Waning Half) Moon
	8	3:54 pm	New Moon
	8	5:36 pm (max)	Partial Solar Eclipse: 70.3% from Honolulu; starts at 4:33 pm; max at 5:36 pm; ends at 6:33 pm HST
	9	9:02 pm	Moon at perigee (closest to earth)
	15	7:03 am	First Quarter (Waxing Half) Moon
	19	6:31 pm	Vernal Equinox (first day of spring)
	23	1:47 am (max)	Penumbra Lunar Eclipse: starts on Mar 22 at 11:39 pm; max on Mar 23 at 1:47 am; ends 3:54 am HST NOTE: Penumbra Eclipses are very faint and so difficult to observe
	23	2:01 am	Full Moon
		25	4:16 am
	31	5:17 am	Last Quarter (Waning Half) Moon
Apr	7	1:24 am	New Moon Super New Moon: largest new moon that occurs nearest perigee

	7	7:36 am	Moon at perigee (closest to earth)
	13	5:59 pm	First Quarter (Waxing Half) Moon
	21	6:05 am	Moon at apogee (farthest from earth)
	21	7:24 pm	Full Moon Micro Full Moon: smallest/dimmest full moon that occurs nearest apogee
	21	best after midnight	Lyrid Meteor Shower peak
	29	5:29 pm	Last Quarter (Waning Half) Moon
May	4	best after midnight	Eta Aquarid Meteor Shower peak
	5	6:14 pm	Moon at perigee (closest to earth)
	6	9:30 am	New Moon Super New Moon: largest new moon that occurs nearest perigee
	9	sunrise	Transit of Mercury (Mercury crosses solar disk from sunrise 5:55 am to 8:43 am)
	13	7:02 am	First Quarter (Waxing Half) Moon
	14	11:00 pm	Jupiter & Moon conjunction: 2° apart
	18	12:06 pm	Moon at apogee (farthest from earth)
	18	12:17 pm	Hāna (kau ka lā i ka lolo = “Lāhaina Noon”)
	18	12:17 pm	Kailua-Kona (kau ka lā i ka lolo = “Lāhaina Noon”)
	21	11:15 am	Full Moon Blue Moon: third Full Moon in a season with four Full Moons
	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	12:28	Honolulu (kau ka lā i ka lolo = “Lāhaina Noon”)

		pm	
	27	12:29 pm	Kāne‘ohe (kau ka lā i ka lolo = “Lāhaina Noon”)
	29	2:12 am	Last Quarter (Waning Half) Moon
	30	12:37 pm	Līhue (kau ka lā i ka lolo = “Lāhaina Noon”)
Jun	3	12:55 am	Moon at perigee (closest to earth)
	4	5:00 pm	New Moon
	11	10:10 pm	First Quarter (Waxing Half) Moon
	15	2:00 am	Moon at apogee (farthest from earth)
	20	1:02 am	Full Moon
	20	12:35 pm	Summer Solstice (first day of summer)
	27	8:19 am	Last Quarter (Waning Half) Moon
	30	8:45 pm	Moon at perigee (closest to earth)
Jul	4	1:01 am	New Moon
	4	6:00 am	Aphelion (earth farthest from sun)
	4		NASA Juno spacecraft reaches Jupiter and inserted into polar orbit after being launched from Earth on Aug 5, 2011.
	11	12:45 pm	Līhue (kau ka lā i ka lolo = “Lāhaina Noon”)
	11	2:52 pm	First Quarter (Waxing Half) Moon
	12	7:24 pm	Moon at apogee (farthest from earth)
	15	12:37 pm	Honolulu (kau ka lā i ka lolo = “Lāhaina Noon”)
	15	12:38 pm	Kāne‘ohe (kau ka lā i ka lolo = “Lāhaina Noon”)
	16	7:30 pm	Venus & Mercury conjunction: 0.5° apart
	16	12:35 pm	Kaunakakai (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	12:32 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	12:57 pm	Full Moon
	23	12:27 pm	Kailua-Kona (kau ka lā i ka lolo = “Lāhaina Noon”)

	24	12:27 pm	Hilo (kau ka lā i ka lolo = “Lāhaina Noon”)
	26	1:00 pm	Last Quarter (Waning Half) Moon
	27	1:25 am	Moon at perigee (closest to earth)
	27	best after midnight	Delta Aquarid Meteor Shower peak
	30	7:30 pm	Mercury & Regulus conjunction: 0.5° apart
Aug	2	10:45 am	New Moon
	5	7:30 pm	Venus & Regulus conjunction: 1° apart
	5	8:00 pm	Jupiter & Moon conjunction: 0.5° apart
	9	2:05 pm	Moon at apogee (farthest from earth)
	10	8:21 am	First Quarter (Waxing Half) Moon
	12	2 am	Perseid Meteor Shower peak
	17	11:27 pm	Full Moon
	21	3:20 pm	Moon at perigee (closest to earth)
	24	5:41 pm	Last Quarter (Waning Half) Moon
	27	7:30 pm	Venus & Jupiter conjunction: 0.5° apart
	31	11:03 pm	New Moon Black Moon: second New Moon in a month
Sep	6	8:44 am	Moon at apogee (farthest from earth)
	9	1:49 am	First Quarter (Waxing Half) Moon
	16	9:05 am	Full Moon
	18	7:00 am	Moon at perigee (closest to earth)
	22	4:21 am	Autumnal Equinox (first day of fall)
	22	11:56 pm	Last Quarter (Waning Half) Moon
	30	2:12 pm	New Moon
Oct	4	1:02 am	Moon at apogee (farthest from earth)
	8	6:33 pm	First Quarter (Waxing Half) Moon
	11	6:00 am	Mercury & Jupiter conjunction: 1° apart
	15	6:23 pm	Full Moon
	16	1:36 pm	Moon at perigee (closest to earth)
	20	best after midnight	Orionid Meteor Shower peak
	22	9:14 am	Last Quarter (Waning Half) Moon
	30	7:38 am	New Moon
	31	9:29 am	Moon at apogee (farthest from earth)
Nov	4	best after	South Taurid Meteor Shower peak

		midnight	
	7	9:51 am	First Quarter (Waxing Half) Moon
	11	best after midnight	North Taurid Meteor Shower peak
	14	1:23 am	Moon at perigee (closest to earth)
	14	3:52 am	Full Moon Super Full Moon: largest/brightest full moon that occurs nearest perigee
	16	5:48 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	1:00 am	Leonid Meteor Shower peak
	20	10:33 pm	Last Quarter (Waning Half) Moon
	27	10:08 am	Moon at apogee (farthest from earth)
	29	2:18 am	New Moon
	30	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)
Dec	6	11:03 pm	First Quarter (Waxing Half) Moon
	12	1:27 pm	Moon at perigee (closest to earth)
	13	2:06 pm	Full Moon
	13	best after midnight	Geminid Meteor Shower peak
	20	3:56 pm	Last Quarter (Waning Half) Moon
	21	12:45 am	Winter Solstice (first day of winter)
	21	best after midnight	Ursid Meteor Shower peak
	24	7:55 pm	Moon at apogee (farthest from earth)
	28	8:53 pm	New Moon