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Celestial Events for 2015
 Hōkūlani Imaginarium
 Windward Community College
 Joseph Ciotti

all times HST

Month	Day	Time	Celestial Event 2015
Jan	3	10:59 pm	Perihelion (earth closest to sun)
	3	best after midnight	Quadrantid Meteor Shower peak
	4	6:53 pm	Full Moon
	9	8:17 am	Moon at apogee (farthest from earth)
	10	6:30 pm	Venus – Mercury conjunction 0.6° apart
	12	11:47 pm	Last Quarter (Waning Half) Moon
	20	3:14 am	New Moon
	21	10:06 am	Moon at perigee (closest to earth)
	26	6:48 pm	First Quarter (Waxing Half) Moon
Feb	3	1:09 pm	Full Moon
	5	8:25 pm	Moon at apogee (farthest from earth)
	11	5:50 pm	Last Quarter (Waning Half) Moon
	18	1:47 pm	New Moon
	18	9:29 pm	Moon at perigee (closest to earth)
	21	7:00 pm	Venus – Mars conjunction 0.4° apart
	25	7:14	First Quarter (Waxing Half) Moon
Mar	4	9:35 pm	Moon at apogee (farthest from earth)
	5	8:05 am	Full Moon Micro Moon: smallest/dimmest full moon that occurs nearest apogee)
	13	7:48 am	Last Quarter (Waning Half) Moon
	19	9:38 am	Moon at perigee (closest to earth)
	19	11:36 pm	New Moon
	20	12:45 pm	Vernal Equinox (first day of spring)
	26	9:43 pm	First Quarter (Waxing Half) Moon
Apr	1	2:59 am	Moon at apogee (farthest from earth)
	4	2:00 am	Total Lunar Eclipse —starts on April 3 at 11:03 pm; max on pril 4 at 2:00 am; ends at 3:44 am)
	4	2:06 am	Full Moon
	11	5:44 pm	Last Quarter (Waning Half) Moon
	16	5:53 pm	Moon at perigee (closest to earth)
	18	8:57 am	New Moon

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	22	6:30 pm	Mercury – Mars conjunction 1.3° apart
	22	best after midnight	Lyrid Meteor Shower peak
	25	1:55 pm	First Quarter (Waxing Half) Moon
	28	5:55 pm	Moon at apogee (farthest from earth)
May	3	5:42 pm	Full Moon
	5	best after midnight	Eta Aquarid Meteor Shower peak
	11	12:36 am	Last Quarter (Waning Half) Moon
	14	2:23 pm	Moon at perigee (closest to earth)
	17	6:13 pm	New Moon
	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”)
	24	12:21 pm	Hāna (kau ka lā i ka lolo = “Lāhaina Noon”)
	24	12:23 pm	Kahului (kau ka lā i ka lolo = “Lāhaina Noon”)
	24	12:25 pm	Lāna‘i City (kau ka lā i ka lolo = “Lāhaina Noon”)
	25	7:19 am	First Quarter (Waxing Half) Moon
	25	12:24 pm	Lāhaina (kau ka lā i ka lolo = “Lāhaina Noon”)
	26	12:12 pm	Moon at apogee (farthest from earth)
	27	12:26 pm	Kaunakakai (kau ka lā i ka lolo = “Lāhaina Noon”)
	27	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”)
	31	12:35 pm	Līhue (kau ka lā i ka lolo = “Lāhaina Noon”)
Jun	2	6:19 am	Full Moon
	9	5:42 am	Last Quarter (Waning Half) Moon
	9	6:39 pm	Moon at perigee (closest to earth)
	16	4:05 am	New Moon
	21	6:38 am	Summer Solstice (first day of summer)
	23	7:01 am	Moon at apogee (farthest from earth)
	24	1:03 am	First Quarter (Waxing Half) Moon
Jul	1	4:20 pm	Full Moon
	2	7:30 pm	Venus – Jupiter conjunction 1° apart
	5	8:54 am	Moon at perigee (closest to earth)
	6	2:59 am	Aphelion (earth farthest from sun)
	8	10:24 am	Last Quarter (Waning Half) Moon
	12	12:43 pm	Līhue (kau ka lā i ka lolo = “Lāhaina Noon”)
	15	12:37 pm	Kāne‘ohe (kau ka lā i ka lolo = “Lāhaina Noon”)
	15	3:24 pm	New Moon
	16	5:45 am	Mercury – Mars conjunction 0.7° apart
	16	12:38 pm	Honolulu (kau ka lā i ka lolo = “Lāhaina Noon”)

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	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	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	1:02 am	Moon at apogee (farthest from earth)
	23	6:04 pm	First Quarter (Waxing Half) Moon
	24		New Horizons spacecraft arrives at Pluto after 9-1/2 year journey
	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”)
	28	best after midnight	Delta Aquarid Meteor Shower peak
	31	12:43 am	Full Moon
Aug	2	12:11 am	Moon at perigee (closest to earth)
	6	4:03 pm	Last Quarter (Waning Half) Moon
	7	7:30 pm	Mercury – Jupiter conjunction 1.5° apart
	12	best after midnight	Perseid Meteor Shower peak
	14	4:54 am	New Moon
	17	4:33 pm	Moon at apogee (farthest from earth)
	22	9:31 am	First Quarter (Waxing Half) Moon
	29	8:35 am	Full Moon Super Moon: largest/brightest full moon that occurs nearest perigee)
	30	5:24 am	Moon at perigee (closest to earth)
Sep	4	11:54 pm	Last Quarter (Waning Half) Moon
	12	8:41 pm	New Moon
	14	1:28 am	Moon at apogee (farthest from earth)
	20	10:59 pm	First Quarter (Waxing Half) Moon
	22	10:20 pm	Autumnal Equinox (first day of fall)
	27	3:46 pm	Moon at perigee (closest to earth)
	27	6:26 pm	Penumbral Lunar Eclipse (starts at moonrise at 6:26pm in its maximum phase and ends at 7:22 pm) NOTE: Penumbral Eclipses are very faint and so difficult to observe but it is also a Super Moon
	27	4:50 pm	Full Moon Super Moon: largest/brightest full moon that occurs nearest perigee)
Oct	4	11:06 am	Last Quarter (Waning Half) Moon
	11	3:17 am	Moon at apogee (farthest from earth)
	12	2:06 pm	New Moon
	17	5:30 am	Mars – Jupiter conjunction

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			0.5° apart
	20	10:31 am	First Quarter (Waxing Half) Moon
	21	best after midnight	Orionid Meteor Shower peak
	28	6:00 am	Venus – Mars – Jupiter conjunction 2° triangle
	26	2:59 am	Moon at perigee (closest to earth)
	27	2:05 am	Full Moon Super Moon: largest/brightest full moon that occurs nearest perigee)
Nov	3	2:24 am	Last Quarter (Waning Half) Moon
	5	best after midnight	South Taurid Meteor Shower peak
	7	6:00 am	Venus — Mars — Moon conjunction 2° apart
	7	11:48	Moon at apogee (farthest from earth)
	11	7:47 am	New Moon
	12	best after midnight	North Taurid Meteor Shower peak
	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
	18	8:27 pm	First Quarter (Waxing Half) Moon
	23	10:06 am	Moon at perigee (closest to earth)
	25	12:44 pm	Full Moon
Dec	2	9:40 pm	Last Quarter (Waning Half) Moon
	5	4:56 am	Moon at apogee (farthest from earth)
	7	6:00 am	Venus – Waning Crescent Moon conjunction 0.5° apart
	11	12:29 am	New Moon
	12	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)
	14	best after midnight	Geminid Meteor Shower peak
	18	5:14 am	First Quarter (Waxing Half) Moon
	20	10:53 pm	Moon at perigee (closest to earth)
	21	6:48 pm	Winter Solstice (first day of winter)
	22	best after midnight	Ursid Meteor Shower peak
	25	1:11 am	Full Moon