

**Celestial Events for 2011**  
Hökūlani Imaginarium  
Windward Community College

(all times HST)

<b>Month</b>	<b>Day</b>	<b>Time</b>	<b>Celestial Event</b>
Jan	3	9:59 am	perihelion (earth closest to sun)
	3	3:14 pm peak	Quadrantid Meteor Shower
	9	7:38 pm	Moon at apogee (farthest from earth)
	15	2:39 am	Moon-Pleiades (1.3° apart)
	21	2:10 pm	Moon at perigee (closest to earth)
	29	5:36 pm	Moon-Venus (3.7° apart)
Feb	6	1:13 pm	Moon at apogee (farthest from earth)
	18	9:27 pm	Moon at perigee (closest to earth)
	25	3:30 am	Moon-Antares (5.3° apart)
	28	5:40 pm	Moon-Venus (1.7° apart)
Mar	5	9:50 pm	Moon at apogee (farthest from earth)
	10	6:35 pm	Moon-Pleiades (1.8° apart)
	19	9:09 am	Moon at perigee (closest to earth)
	20	1:21 pm	Vernal Equinox (first day of spring)
	21	1:00 am	Moon-Spica (2.5° apart)
	31	5:30 am	Moon-Venus (6.5° apart)
Apr	1	11:00 pm	Moon at apogee (farthest from earth)
	6	7:45 pm	Moon-Pleiades (4.0° apart)
	16	7:59 pm	Moon at perigee (closest to earth)
	22	12:44 pm peak	Lyrid Meteor Shower
	29	8:02 am	Moon at apogee (farthest from earth)
	30	5:30 am	Moon-Venus (6.0° apart)
May	5	1:59 pm peak	Eta Aquarid Meteor Shower
	9	5:00 am	Mercury-Venus-Jupiter (2° apart)
	11	5:00 am	Venus-Jupiter (0.5° apart)
	14	10:08 pm	Moon-Spica (2.6° apart)
	15	1:18 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")
	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	12:24 pm	Lāhaina (kau ka lā i ka lolo = “Lāhaina Noon”)
	26	11:58 pm	Moon at apogee (farthest from earth)
	26	12:26 pm	Kaunakakai (kau ka lā i ka lolo = “Lāhaina Noon”)
	27	12:28 pm	Honolulu (kau ka lā i ka lolo = “Lāhaina Noon”)
	27	12:28 pm	Kāne‘ohe (kau ka lā i ka lolo = “Lāhaina Noon”)
	30	5:00 am	Moon-Venus-Mars (5.6° apart)
	31	12:35 pm	Līhue (kau ka lā i ka lolo = “Lāhaina Noon”)
Jun	9	5:15 am	Venus-Pleiades (5.1° apart)
	11	3:42 pm	Moon at perigee (closest to earth)
	21	7:16 am	Summer Solstice (first day of summer)
	23	6:13 pm	Moon at apogee (farthest from earth)
Jul	4	12:59 am	Aphelion (earth farthest from sun)
	7	4:04 am	Moon at perigee (closest to earth)
	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”)
	16	12:37 pm	Honolulu (kau ka lā i ka lolo = “Lāhaina Noon”)
	17	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	12:30 pm	Hāna (kau ka lā i ka lolo = “Lāhaina Noon”)
	19	12:34 pm	Lāna‘i City (kau ka lā i ka lolo = “Lāhaina Noon”)
	21	12:46 pm	Moon at apogee (farthest from earth)
	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”)
	25	5:28 am	Moon-Pleiades (2.2° apart)
	27	5:45 am	Moon-Mars (0.5° apart)
	28	3:47 am peak	Delta Aquarid Shower
Aug	2	10:59 am	Moon at perigee (closest to earth)
	12	7:41 pm peak	Perseid Meteor Shower
	18	6:23 am	Moon at apogee (farthest from earth)
	25	3:36 am	Moon-Mars (2.8° apart)
	30	7:35 am	Moon at perigee (closest to earth)
Sep	8	5:45 am	Mercury-Regulus (1.0° apart)
	14	8:23 pm	Moon at apogee (farthest from earth)
	17	10:45 pm	Moon-Pleiades (3.3° apart)
	22	11:05 pm	Autumnal Equinox (first day of fall)
	27	3:01 pm	Moon at perigee (closest to earth)

Oct	12	1:43 am	Moon at apogee (farthest from earth)
	15	2:49 am	Moon-Pleiades (3.0° apart)
	21	11:59 am peak	Orionid Meteor Shower
	26	2:26 am	Moon at perigee (closest to earth)
Nov	5	12:27 pm peak	South Taurid Meteor Shower
	8	3:20 am	Moon at apogee (farthest from earth)
	11	5:30 am	Saturn-Spica (4.3° apart)
	12	11:43 am peak	North Taurid Meteor Shower
	17	6:01 pm peak	Leonid Meteor Shower
	17	5:49 pm sunset	Pleiades (Makali'i) rise at sunset
	22	5:00 am	Moon-Spica-Saturn (6.0° apart)
	23	1:24 pm	Moon at perigee (closest to earth)
	26	5:48 pm sunset	First visible crescent moon after rise of Pleiades (Makali'i) [Note: this can be considered as the beginning of Makahiki]
	26	6:29 pm	Moon—Venus (2.5° apart)
Dec	5	3:13 pm	Moon at apogee (farthest from earth)
	8	7:00 pm	Moon-Pleiades (3.7° apart)
	10	partial begins 2:46 am; totality begins 4:06 am; mid-eclipse 4:32 am; totality ends 4:57 am; partial ends 6:18 am	Total Lunar Eclipse
	14	7:11 am peak	Geminid Meteor Shower
	21	4:56 pm	Moon at perigee (closest to earth)
	21	7:30 pm	Winter Solstice (first day of winter)
	22	5:45 am	Moon-Mercury (6.5° apart)
	22	4:00 pm peak	Urdis Meteor Shower