

1997 - July

Calendar for Mauna Kea - Hawai'i

1997 - July

Longitude: W 155 28
Latitude : N 19 50

Height: 4215m
Time Zone: -10h 00m

Zone Time = UT - 10h 00m

Date	J.D. at Oh UT 245	LMST at Oh UT h m s	Moon		Moon Transit Dec. Phase o ' o	Morning			Sun		Evening			
			Rise	Set		Astr. Twil.	Naut. Twil.	Civil Twil.	Rise	Set	Civil Twil.	Naut. Twil.	Astr. Twil.	
			h m	h m		h m	h m	h m	h m	h m	h m	h m	h m	h m
Tues 1	0630.5	08 14 29	03 09	16 46	+16 18	0.09	04 23	04 53	05 22	05 36	19 16	19 29	19 59	20 29
Wed 2	0631.5	08 18 25	03 59	17 40	+17 53	0.04	04 23	04 53	05 22	05 36	19 16	19 29	19 59	20 29
Thur 3	0632.5	08 22 22	04 49	18 33	+18 26	0.01	04 24	04 54	05 23	05 36	19 16	19 30	19 59	20 28
Fri 4	0633.5	08 26 18	05 41	19 22	+17 57	0.00	04 24	04 54	05 23	05 37	19 16	19 30	19 58	20 28
Sat 5	0634.5	08 30 15	06 33	20 09	+16 32	0.02	04 24	04 54	05 23	05 37	19 16	19 29	19 58	20 28
Sun 6	0635.5	08 34 11	07 25	20 52	+14 19	0.05	04 25	04 55	05 24	05 37	19 16	19 29	19 58	20 28
Mon 7	0636.5	08 38 08	08 15	21 32	+11 27	0.10	04 25	04 55	05 24	05 38	19 16	19 29	19 58	20 28
Tues 8	0637.5	08 42 04	09 05	22 11	+08 06	0.17	04 26	04 56	05 25	05 38	19 16	19 29	19 58	20 28
Wed 9	0638.5	08 46 01	09 53	22 48	+04 26	0.25	04 26	04 56	05 25	05 38	19 16	19 29	19 58	20 28
Thur 10	0639.5	08 49 58	10 41	23 24	+00 35	0.33	04 27	04 56	05 25	05 39	19 16	19 29	19 58	20 28
Fri 11	0640.5	08 53 54	11 30	-03 20	0.43	04 27	04 57	05 26	05 39	19 15	19 29	19 58	20 27
Sat 12	0641.5	08 57 51	12 18	00 01	-07 10	0.53	04 28	04 57	05 26	05 40	19 15	19 29	19 58	20 27
Sun 13	0642.5	09 01 47	13 09	00 40	-10 47	0.63	04 28	04 58	05 26	05 40	19 15	19 29	19 57	20 27
Mon 14	0643.5	09 05 44	14 01	01 20	-14 00	0.73	04 29	04 58	05 27	05 40	19 15	19 28	19 57	20 27
Tues 15	0644.5	09 09 40	14 55	02 04	-16 36	0.82	04 29	04 59	05 27	05 41	19 15	19 28	19 57	20 26
Wed 16	0645.5	09 13 37	15 51	02 52	-18 21	0.89	04 30	04 59	05 28	05 41	19 15	19 28	19 57	20 26
Thur 17	0646.5	09 17 33	16 49	03 44	-19 01	0.95	04 30	05 00	05 28	05 42	19 14	19 28	19 56	20 26
Fri 18	0647.5	09 21 30	17 46	04 40	-18 25	0.99	04 31	05 00	05 29	05 42	19 14	19 27	19 56	20 25
Sat 19	0648.5	09 25 27	18 43	05 41	04 31	05 01	05 29	05 42	19 14	19 27	19 56	20 25
Sun 20	0649.5	09 29 23	19 38	06 43	-16 32	1.00	04 32	05 01	05 29	05 43	19 14	19 27	19 55	20 24
Mon 21	0650.5	09 33 20	20 29	07 46	-13 27	0.97	04 32	05 01	05 30	05 43	19 13	19 27	19 55	20 24
Tues 22	0651.5	09 37 16	21 18	08 49	-09 27	0.92	04 33	05 02	05 30	05 43	19 13	19 26	19 54	20 23
Wed 23	0652.5	09 41 13	22 05	09 51	-04 52	0.84	04 33	05 02	05 31	05 44	19 13	19 26	19 54	20 23
Thur 24	0653.5	09 45 09	22 50	10 51	-00 04	0.74	04 34	05 03	05 31	05 44	19 12	19 25	19 54	20 22
Fri 25	0654.5	09 49 06	23 36	11 50	+04 38	0.63	04 34	05 03	05 31	05 45	19 12	19 25	19 53	20 22
Sat 26	0655.5	09 53 02	12 48	+08 55	0.51	04 35	05 04	05 32	05 45	19 11	19 25	19 53	20 21
Sun 27	0656.5	09 56 59	00 21	13 45	+12 35	0.40	04 36	05 04	05 32	05 45	19 11	19 24	19 52	20 21
Mon 28	0657.5	10 00 56	01 08	14 41	+15 26	0.29	04 36	05 05	05 33	05 46	19 11	19 24	19 52	20 20
Tues 29	0658.5	10 04 52	01 56	15 36	+17 21	0.20	04 37	05 05	05 33	05 46	19 10	19 23	19 51	20 20
Wed 30	0659.5	10 08 49	02 46	16 28	+18 16	0.12	04 37	05 06	05 33	05 47	19 10	19 23	19 51	20 19
Thur 31	0660.5	10 12 45	03 36	17 18	+18 10	0.06	04 38	05 06	05 34	05 47	19 09	19 22	19 50	20 18