

2019 - September

Calendar for Mauna Kea - Hawai'i

2019 - September

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 h m	Set h m		Astr. Twil. h m	Naut. Twil. h m	Civil Twil. h m	Rise h m	Set h m	Civil Twil. h m	Naut. Twil. h m	Astr. Twil. h m	
Sun 1	8727.5	12 17 37	08 23	21 03	-01 58	0.10	04 52	05 18	05 44	05 56	18 47	18 59	19 25	19 52
Mon 2	8728.5	12 21 33	09 24	21 47	-07 43	0.19	04 52	05 18	05 44	05 57	18 46	18 58	19 24	19 51
Tues 3	8729.5	12 25 30	10 24	22 31	-12 53	0.29	04 52	05 19	05 45	05 57	18 45	18 57	19 23	19 50
Wed 4	8730.5	12 29 26	11 22	23 17	-17 09	0.39	04 53	05 19	05 45	05 57	18 44	18 57	19 23	19 49
Thur 5	8731.5	12 33 23	12 20	-20 21	0.50	04 53	05 19	05 45	05 57	18 43	18 56	19 22	19 48
Fri 6	8732.5	12 37 19	13 16	00 05	-22 22	0.61	04 53	05 19	05 45	05 58	18 42	18 55	19 21	19 47
Sat 7	8733.5	12 41 16	14 09	00 54	-23 09	0.71	04 53	05 20	05 45	05 58	18 42	18 54	19 20	19 46
Sun 8	8734.5	12 45 12	15 00	01 45	-22 43	0.80	04 54	05 20	05 46	05 58	18 41	18 53	19 19	19 45
Mon 9	8735.5	12 49 09	15 48	02 37	-21 12	0.87	04 54	05 20	05 46	05 58	18 40	18 52	19 18	19 44
Tues 10	8736.5	12 53 05	16 32	03 28	-18 42	0.93	04 54	05 20	05 46	05 58	18 39	18 51	19 17	19 43
Wed 11	8737.5	12 57 02	17 13	04 19	-15 23	0.97	04 55	05 21	05 46	05 59	18 38	18 50	19 16	19 42
Thur 12	8738.5	13 00 59	17 51	05 09	-11 27	0.99	04 55	05 21	05 47	05 59	18 37	18 49	19 15	19 41
Fri 13	8739.5	13 04 55	18 27	05 59	04 55	05 21	05 47	05 59	18 36	18 48	19 14	19 40
Sat 14	8740.5	13 08 52	19 01	06 47	-07 04	1.00	04 55	05 21	05 47	05 59	18 35	18 47	19 13	19 39
Sun 15	8741.5	13 12 48	19 36	07 35	-02 23	0.98	04 56	05 22	05 47	05 59	18 34	18 46	19 12	19 38
Mon 16	8742.5	13 16 45	20 10	08 24	+02 24	0.95	04 56	05 22	05 47	06 00	18 33	18 46	19 11	19 37
Tues 17	8743.5	13 20 41	20 47	09 13	+07 07	0.90	04 56	05 22	05 48	06 00	18 32	18 45	19 10	19 36
Wed 18	8744.5	13 24 38	21 25	10 04	+11 36	0.83	04 56	05 22	05 48	06 00	18 31	18 44	19 09	19 35
Thur 19	8745.5	13 28 34	22 07	10 57	+15 38	0.75	04 57	05 22	05 48	06 00	18 31	18 43	19 08	19 34
Fri 20	8746.5	13 32 31	22 54	11 52	+19 00	0.65	04 57	05 23	05 48	06 01	18 30	18 42	19 07	19 33
Sat 21	8747.5	13 36 28	23 46	12 49	+21 25	0.55	04 57	05 23	05 48	06 01	18 29	18 41	19 06	19 32
Sun 22	8748.5	13 40 24	13 46	+22 38	0.44	04 57	05 23	05 49	06 01	18 28	18 40	19 06	19 31
Mon 23	8749.5	13 44 21	00 42	14 43	+22 25	0.33	04 58	05 23	05 49	06 01	18 27	18 39	19 05	19 30
Tues 24	8750.5	13 48 17	01 44	15 38	+20 39	0.22	04 58	05 24	05 49	06 01	18 26	18 38	19 04	19 29
Wed 25	8751.5	13 52 14	02 48	16 31	+17 22	0.13	04 58	05 24	05 49	06 02	18 25	18 37	19 03	19 28
Thur 26	8752.5	13 56 10	03 53	17 20	+12 46	0.06	04 58	05 24	05 50	06 02	18 24	18 36	19 02	19 27
Fri 27	8753.5	14 00 07	04 58	18 07	+07 12	0.01	04 59	05 24	05 50	06 02	18 23	18 35	19 01	19 27
Sat 28	8754.5	14 04 03	06 02	18 52	+01 07	0.00	04 59	05 24	05 50	06 02	18 22	18 35	19 00	19 26
Sun 29	8755.5	14 08 00	07 05	19 37	-04 59	0.02	04 59	05 25	05 50	06 02	18 21	18 34	18 59	19 25
Mon 30	8756.5	14 11 57	08 07	20 22	-10 41	0.07	04 59	05 25	05 50	06 03	18 21	18 33	18 58	19 24