

2021 - October

Calendar for Mauna Kea - Hawai'i

2021 - October

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
Fri 1	9488.5	14 17 55	01 31	15 28	+22 29	0.25	05 00	05 25	05 51	06 03	18 19	18 31	18 57	19 23
Sat 2	9489.5	14 21 52	02 28	16 12	+18 41	0.16	05 00	05 26	05 51	06 03	18 18	18 31	18 56	19 22
Sun 3	9490.5	14 25 48	03 26	16 53	+13 46	0.09	05 00	05 26	05 51	06 04	18 18	18 30	18 55	19 21
Mon 4	9491.5	14 29 45	04 24	17 32	+07 56	0.04	05 00	05 26	05 52	06 04	18 17	18 29	18 54	19 20
Tues 5	9492.5	14 33 41	05 23	18 11	+01 30	0.01	05 01	05 26	05 52	06 04	18 16	18 28	18 54	19 19
Wed 6	9493.5	14 37 38	06 22	18 52	-05 11	0.00	05 01	05 26	05 52	06 04	18 15	18 27	18 53	19 18
Thur 7	9494.5	14 41 34	07 23	19 35	-11 42	0.03	05 01	05 27	05 52	06 05	18 14	18 26	18 52	19 17
Fri 8	9495.5	14 45 31	08 26	20 21	-17 33	0.09	05 01	05 27	05 53	06 05	18 13	18 26	18 51	19 17
Sat 9	9496.5	14 49 28	09 31	21 12	-22 17	0.17	05 02	05 27	05 53	06 05	18 13	18 25	18 50	19 16
Sun 10	9497.5	14 53 24	10 36	22 08	-25 29	0.27	05 02	05 28	05 53	06 05	18 12	18 24	18 50	19 15
Mon 11	9498.5	14 57 21	11 41	23 08	-26 51	0.39	05 02	05 28	05 53	06 06	18 11	18 23	18 49	19 14
Tues 12	9499.5	15 01 17	12 42	-26 21	0.50	05 02	05 28	05 54	06 06	18 10	18 22	18 48	19 14
Wed 13	9500.5	15 05 14	13 38	00 10	-24 09	0.62	05 03	05 28	05 54	06 06	18 09	18 22	18 47	19 13
Thur 14	9501.5	15 09 10	14 27	01 12	-20 32	0.72	05 03	05 29	05 54	06 07	18 09	18 21	18 47	19 12
Fri 15	9502.5	15 13 07	15 11	02 11	-15 54	0.82	05 03	05 29	05 55	06 07	18 08	18 20	18 46	19 11
Sat 16	9503.5	15 17 03	15 50	03 08	-10 36	0.89	05 04	05 29	05 55	06 07	18 07	18 19	18 45	19 11
Sun 17	9504.5	15 21 00	16 27	04 02	-04 55	0.95	05 04	05 29	05 55	06 07	18 06	18 19	18 44	19 10
Mon 18	9505.5	15 24 57	17 01	04 54	+00 52	0.98	05 04	05 30	05 55	06 08	18 06	18 18	18 44	19 09
Tues 19	9506.5	15 28 53	17 35	05 45	05 04	05 30	05 56	06 08	18 05	18 17	18 43	19 09
Wed 20	9507.5	15 32 50	18 08	06 35	+06 31	1.00	05 05	05 30	05 56	06 09	18 04	18 17	18 42	19 08
Thur 21	9508.5	15 36 46	18 44	07 26	+11 50	0.99	05 05	05 31	05 56	06 09	18 04	18 16	18 42	19 08
Fri 22	9509.5	15 40 43	19 21	08 17	+16 36	0.97	05 05	05 31	05 57	06 09	18 03	18 15	18 41	19 07
Sat 23	9510.5	15 44 39	20 02	09 09	+20 37	0.92	05 06	05 31	05 57	06 10	18 02	18 15	18 41	19 06
Sun 24	9511.5	15 48 36	20 46	10 02	+23 42	0.87	05 06	05 32	05 58	06 10	18 02	18 14	18 40	19 06
Mon 25	9512.5	15 52 32	21 34	10 55	+25 40	0.79	05 06	05 32	05 58	06 10	18 01	18 14	18 40	19 05
Tues 26	9513.5	15 56 29	22 25	11 46	+26 24	0.71	05 07	05 32	05 58	06 11	18 01	18 13	18 39	19 05
Wed 27	9514.5	16 00 26	23 19	12 35	+25 48	0.62	05 07	05 33	05 59	06 11	18 00	18 12	18 38	19 04
Thur 28	9515.5	16 04 22	13 21	+23 53	0.52	05 07	05 33	05 59	06 12	17 59	18 12	18 38	19 04
Fri 29	9516.5	16 08 19	00 15	14 05	+20 41	0.41	05 08	05 33	05 59	06 12	17 59	18 11	18 37	19 03
Sat 30	9517.5	16 12 15	01 11	14 46	+16 21	0.31	05 08	05 34	06 00	06 12	17 58	18 11	18 37	19 03
Sun 31	9518.5	16 16 12	02 08	15 25	+11 01	0.21	05 08	05 34	06 00	06 13	17 58	18 10	18 36	19 02