

2003 - February

Calendar for Mauna Kea - Hawai'i

2003 - February

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		
Sat	1	2671.5	22 21 17	07 16	19 00	-20 20	0.00	05 42	06 08	06 34	06 47	18 24	18 37	19 03	19 30
Sun	2	2672.5	22 25 14	07 58	19 55	-15 56	0.03	05 41	06 08	06 34	06 47	18 25	18 37	19 04	19 30
Mon	3	2673.5	22 29 10	08 37	20 46	-10 55	0.07	05 41	06 07	06 34	06 46	18 25	18 38	19 04	19 30
Tues	4	2674.5	22 33 07	09 12	21 36	-05 33	0.13	05 41	06 07	06 33	06 46	18 26	18 39	19 05	19 31
Wed	5	2675.5	22 37 04	09 45	22 25	-00 05	0.20	05 41	06 07	06 33	06 46	18 26	18 39	19 05	19 31
Thur	6	2676.5	22 41 00	10 17	23 13	+05 19	0.29	05 40	06 06	06 33	06 45	18 27	18 40	19 06	19 32
Fri	7	2677.5	22 44 57	10 50	+10 28	0.38	05 40	06 06	06 32	06 45	18 27	18 40	19 06	19 32
Sat	8	2678.5	22 48 53	11 24	00 02	+15 13	0.47	05 40	06 06	06 32	06 44	18 28	18 41	19 07	19 33
Sun	9	2679.5	22 52 50	12 00	00 52	+19 23	0.57	05 39	06 05	06 31	06 44	18 28	18 41	19 07	19 33
Mon	10	2680.5	22 56 46	12 41	01 44	+22 44	0.67	05 39	06 05	06 31	06 44	18 29	18 42	19 08	19 34
Tues	11	2681.5	23 00 43	13 26	02 38	+25 02	0.76	05 39	06 04	06 30	06 43	18 29	18 42	19 08	19 34
Wed	12	2682.5	23 04 39	14 17	03 34	+26 01	0.84	05 38	06 04	06 30	06 43	18 30	18 42	19 08	19 34
Thur	13	2683.5	23 08 36	15 13	04 30	+25 26	0.91	05 38	06 04	06 30	06 42	18 30	18 43	19 09	19 35
Fri	14	2684.5	23 12 33	16 14	05 25	+23 14	0.97	05 37	06 03	06 29	06 42	18 31	18 43	19 09	19 35
Sat	15	2685.5	23 16 29	17 17	06 17	05 37	06 03	06 28	06 41	18 31	18 44	19 10	19 35
Sun	16	2686.5	23 20 26	18 20	07 05	+19 27	0.99	05 36	06 02	06 28	06 40	18 32	18 44	19 10	19 36
Mon	17	2687.5	23 24 22	19 22	07 50	+14 22	1.00	05 36	06 02	06 27	06 40	18 32	18 45	19 10	19 36
Tues	18	2688.5	23 28 19	20 23	08 32	+08 18	0.97	05 35	06 01	06 27	06 39	18 33	18 45	19 11	19 37
Wed	19	2689.5	23 32 15	21 23	09 13	+01 42	0.91	05 35	06 00	06 26	06 39	18 33	18 45	19 11	19 37
Thur	20	2690.5	23 36 12	22 24	09 54	-05 00	0.83	05 34	06 00	06 26	06 38	18 33	18 46	19 12	19 37
Fri	21	2691.5	23 40 08	23 25	10 36	-11 24	0.73	05 34	05 59	06 25	06 37	18 34	18 46	19 12	19 38
Sat	22	2692.5	23 44 05	11 20	-17 05	0.62	05 33	05 59	06 24	06 37	18 34	18 47	19 12	19 38
Sun	23	2693.5	23 48 02	00 26	12 09	-21 41	0.50	05 32	05 58	06 24	06 36	18 35	18 47	19 13	19 38
Mon	24	2694.5	23 51 58	01 29	13 01	-24 54	0.39	05 32	05 57	06 23	06 35	18 35	18 47	19 13	19 39
Tues	25	2695.5	23 55 55	02 30	13 57	-26 31	0.28	05 31	05 57	06 22	06 35	18 35	18 48	19 13	19 39
Wed	26	2696.5	23 59 51	03 28	14 55	-26 27	0.19	05 30	05 56	06 22	06 34	18 36	18 48	19 14	19 39
Thur	27	2697.5	00 03 48	04 22	15 54	-24 48	0.11	05 30	05 55	06 21	06 33	18 36	18 48	19 14	19 40
Fri	28	2698.5	00 07 44	05 11	16 51	-21 47	0.05	05 29	05 55	06 20	06 33	18 36	18 49	19 14	19 40

Prepared by HM Nautical Almanac Office

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Rise/Set times in Zone Time