Siding Spring Observatory

January 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 We	19:16	20:13	20:50			03:26	04:02	04:59	06:35	03:31	10:08	0·03	18 49·7 –22 57	20 20·5 –23 56
02–03 Th	19:16	20:13	20:50	21:20		03:26	04:03	05:00	06:36	03:35	10:13	0·08	18 54·1 –22 51	21 16·2 –19 36
03–04 Fr	19:17	20:13	20:50	21:55		03:27	04:04	05:00	06:37	03:39	10:18	0·15	18 58·5 –22 45	22 09·2 –14 11
04–05 Sa	19:17	20:13	20:50	22:27		03:28	04:04	05:01	06:38	03:43	10:23	0·24	19 02·9 –22 39	23 00·2 –08 01
05–06 Su	19:17	20:13	20:50	22:58		03:29	04:05	05:02	06:39	03:47	10:28	0·34	19 07·3 –22 32	23 49·8 –01 25
06–07 Mo	19:17	20:13	20:49	23:28	—	03:30	04:06	05:03	06:40	03:51	10:33	0·45	19 11·6 –22 25	00 39·4 +05 16
07–08 Tu	19:17	20:13	20:49	23:59		03:31	04:07	05:04	06:41	03:55	10:38	0·57	19 16·0 –22 17	01 30·3 +11 44
08–09 We	19:17	20:13	20:49	00:34		03:32	04:08	05:04	06:43	03:58	10:43	0·68	19 20·4 –22 09	02 23·5 +17 37
09–10 Th	19:17	20:13	20:49	01:14		03:33	04:09	05:05	06:44	04:02	10:48	0·78	19 24·7 –22 01	03 20·0 +22 33
10–11 Fr	19:17	20:13	20:49	02:01		03:34	04:10	05:06	06:45	04:06	10:53	0·87	19 29·1 –21 52	04 19·9 +26 10
11–12 Sa	19:17	20:13	20:48	02:56		03:36	04:11	05:07	06:47	04:09	10:58	0·93	19 33·4 –21 42	05 22·3 +28 09
12–13 Su	19:17	20:13	20:48			03:37	04:12	05:08	06:48	04:13	11:03	0·98	19 37·7 –21 32	06 25·2 +28 20
13–14 Mo	19:17	20:12	20:48			03:38	04:13	05:09	06:50	04:17	11:08	1·00	19 42·1 –21 22	07 26·4 +26 45
14–15 Tu	19:17	20:12	20:47			03:39	04:14	05:10	06:51	04:20	11:13	1·00	19 46·4 –21 11	08 24·1 +23 40
15–16 We	19:16	20:12	20:47			03:40	04:15	05:10	06:53	04:24	11:18	0·97	19 50·7 –21 00	09 17·4 +19 26
16–17 Th	19:16	20:11	20:46		20:53	03:41	04:16	05:11	06:54	04:27	11:23	0·92	19 54·9 –20 49	10 06·6 +14 24
17–18 Fr	19:16	20:11	20:46		21:22	03:42	04:17	05:12	06:56	04:30	11:28	0·86	19 59·2 –20 37	10 52·5 +08 54
18–19 Sa	19:16	20:11	20:45		21:48	03:44	04:18	05:13	06:58	04:34	11:33	0·79	20 03·5 –20 25	11 36·0 +03 10
19–20 Su	19:15	20:10	20:45		22:13	03:45	04:19	05:14	07:00	04:37	11:38	0·71	20 07·7 –20 12	12 18·3 –02 34
20–21 Mo	19:15	20:10	20:44		22:38	03:46	04:20	05:15	07:01	04:41	11:44	0·62	20 11·9 –19 59	13 00·5 –08 10
21–22 Tu	19:15	20:09	20:43	—	23:04	03:47	04:21	05:16	07:03	04:44	11:49	0·53	20 16·2 –19 46	13 43·6 –13 27
22–23 We	19:14	20:09	20:43		23:33	03:48	04:23	05:17	07:05	04:47	11:54	0·43	20 20·4 –19 32	14 28·7 –18 16
23–24 Th	19:14	20:08	20:42		00:05	03:50	04:24	05:18	07:07	04:50	11:59	0·34	20 24·6 –19 18	15 16·7 –22 26
24–25 Fr	19:13	20:07	20:41		00:44	03:51	04:25	05:19	07:09	04:54	12:04	0·25	20 28·8 –19 03	16 08·0 –25 42
25–26 Sa	19:13	20:07	20:41		01:30	03:52	04:26	05:20	07:11	04:57	12:09	0·17	20 32·9 –18 48	17 03·0 –27 49
26–27 Su	19:12	20:06	20:40		02:24	03:53	04:27	05:21	07:13	05:00	12:15	0·10	20 37·1 –18 33	18 00·8 –28 33
27–28 Mo	19:12	20:05	20:39		03:25	03:54	04:28	05:22	07:15	05:03	12:20	0·05	20 41·2 –18 18	19 00·2 –27 41
28–29 Tu	19:11	20:05	20:38			03:56	04:29	05:23	07:17	05:06	12:25	0·01	20 45·4 –18 02	19 59·4 –25 12
29–30 We	19:11	20:04	20:37			03:57	04:30	05:23	07:19	05:09	12:30	0·00	20 49·5 –17 45	20 57·0 –21 12
30–31 Th	19:10	20:03	20:36			03:58	04:31	05:24	07:21	05:12	12:35	0·01	20 53·6 –17 29	21 52·2 –15 56
31–01 Fr	19:09	20:02	20:35			03:59	04:32	05:25	07:23	05:15	12:40	0·05	20 57·7 –17 12	22 45·1 –09 45

Siding Spring Observatory

February 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 Sa	19:09	20:02	20:34	20:59		04:01	04:33	05:26	07:26	05:18	12:46	0·12	21 01·8 –16 55	23 36·3 –03 02
02–03 Su	19:08	20:01	20:34	21:30		04:02	04:34	05:27	07:28	05:21	12:51	0·20	21 05·8 –16 38	00 26·9 +03 50
03–04 Mo	19:07	20:00	20:33	22:01		04:03	04:36	05:28	07:30	05:24	12:56	0·30	21 09·9 –16 20	01 18·1 +10 30
04–05 Tu	19:07	19:59	20:32	22:35	—	04:04	04:37	05:29	07:32	05:27	13:01	0·41	21 13·9 –16 02	02 11·1 +16 36
05–06 We	19:06	19:58	20:30	23:13		04:05	04:38	05:30	07:34	05:30	13:06	0·53	21 17·9 –15 44	03 06·7 +21 45
06–07 Th	19:05	19:57	20:29	23:57		04:07	04:39	05:31	07:37	05:33	13:11	0·64	21 21·9 –15 25	04 05·1 +25 38
07–08 Fr	19:04	19:56	20:28	00:49		04:08	04:40	05:32	07:39	05:36	13:16	0·74	21 25·9 –15 07	05 05·9 +27 58
08–09 Sa	19:04	19:55	20:27	01:47		04:09	04:41	05:33	07:41	05:39	13:22	0·83	21 29·9 –14 47	06 07·6 +28 35
09–10 Su	19:03	19:54	20:26	02:50		04:10	04:42	05:33	07:43	05:42	13:27	0·90	21 33·9 –14 28	07 08·2 +27 30
10–11 Mo	19:02	19:53	20:25	03:55		04:11	04:43	05:34	07:46	05:44	13:32	0·96	21 37·8 –14 09	08 05·9 +24 51
11–12 Tu	19:01	19:52	20:24			04:12	04:44	05:35	07:48	05:47	13:37	0·99	21 41·8 –13 49	08 59·9 +20 58
12–13 We	19:00	19:51	20:23			04:13	04:45	05:36	07:50	05:50	13:42	1·00	21 45·7 –13 29	09 49·9 +16 10
13–14 Th	18:59	19:50	20:22			04:15	04:46	05:37	07:53	05:53	13:47	0·99	21 49·6 –13 09	10 36·6 +10 46
14–15 Fr	18:58	19:49	20:20			04:16	04:47	05:38	07:55	05:55	13:52	0·96	21 53·5 –12 48	11 20·9 +05 03
15–16 Sa	18:57	19:48	20:19			04:17	04:48	05:39	07:57	05:58	13:57	0·91	21 57·4 –12 28	12 03·7 –00 45
16–17 Su	18:56	19:47	20:18		20:39	04:18	04:49	05:40	07:59	06:01	14:02	0·85	22 01·3 –12 07	12 46·0 –06 28
17–18 Mo	18:55	19:46	20:17		21:05	04:19	04:50	05:40	08:02	06:04	14:07	0·78	22 05·2 –11 46	13 28·8 –11 54
18–19 Tu	18:54	19:45	20:16		21:32	04:20	04:51	05:41	08:04	06:06	14:12	0·70	22 09·0 –11 25	14 13·1 –16 54
19–20 We	18:53	19:44	20:14	—	22:03	04:21	04:52	05:42	08:06	06:09	14:17	0·61	22 12·9 –11 03	14 59·8 –21 17
20–21 Th	18:52	19:43	20:13		22:38	04:22	04:53	05:43	08:09	06:12	14:22	0·51	22 16·7 –10 42	15 49·4 –24 50
21–22 Fr	18:51	19:41	20:12		23:20	04:23	04:54	05:44	08:11	06:14	14:27	0·42	22 20·5 –10 20	16 42·3 –27 21
22–23 Sa	18:50	19:40	20:11		00:09	04:24	04:54	05:44	08:13	06:17	14:32	0·32	22 24·4 –09 58	17 38·2 –28 36
23–24 Su	18:49	19:39	20:09		01:07	04:25	04:55	05:45	08:15	06:20	14:37	0·23	22 28·2 –09 36	18 36·2 –28 21
24–25 Mo	18:48	19:38	20:08		02:11	04:26	04:56	05:46	08:18	06:22	14:42	0·15	22 32·0 –09 14	19 34·9 –26 31
25–26 Tu	18:47	19:37	20:07		03:19	04:27	04:57	05:47	08:20	06:25	14:47	0·08	22 35·7 –08 51	20 32·9 –23 07
26–27 We	18:46	19:35	20:05			04:28	04:58	05:48	08:22	06:28	14:52	0·03	22 39·5 –08 29	21 29·3 –18 18
27–28 Th	18:45	19:34	20:04			04:29	04:59	05:48	08:25	06:30	14:57	0·00	22 43·3 –08 06	22 23·7 –12 21
28–01 Fr	18:44	19:33	20:03			04:30	05:00	05:49	08:27	06:33	15:02	0·00	22 47·0 –07 44	23 16·5 –05 38

Siding Spring Observatory

March 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 Sa	18:43	19:32	20:01			04:31	05:01	05:50	08:29	06:35	15:07	0·03	22 50·8 –07 21	00 08·7 +01 28
02–03 Su	18:41	19:31	20:00			04:32	05:01	05:51	08:31	06:38	15:11	0·09	22 54·5 –06 58	01 01·3 +08 30
03–04 Mo	18:40	19:29	19:59	20:34		04:33	05:02	05:51	08:34	06:41	15:16	0·17	22 58·3 –06 35	01 55·4 +15 01
04–05 Tu	18:39	19:28	19:57	21:11		04:34	05:03	05:52	08:36	06:43	15:21	0·27	23 02·0 –06 12	02 51·8 +20 38
05–06 We	18:38	19:27	19:56	21:55	—	04:35	05:04	05:53	08:38	06:46	15:26	0·38	23 05·7 –05 49	03 50·8 +24 58
06–07 Th	18:37	19:25	19:55	22:44		04:36	05:05	05:54	08:40	06:49	15:31	0·49	23 09·4 –05 25	04 51·9 +27 42
07–08 Fr	18:35	19:24	19:53	23:41		04:36	05:06	05:54	08:43	06:51	15:36	0·60	23 13·1 –05 02	05 53·8 +28 43
08–09 Sa	18:34	19:23	19:52	00:43		04:37	05:06	05:55	08:45	06:54	15:40	0·70	23 16·8 –04 39	06 54·4 +27 59
09–10 Su	18:33	19:22	19:51	01:47		04:38	05:07	05:56	08:47	06:56	15:45	0·79	23 20·5 –04 15	07 52·3 +25 42
10–11 Mo	18:32	19:20	19:49	02:50		04:39	05:08	05:56	08:49	06:59	15:50	0·87	23 24·2 –03 52	08 46·4 +22 08
11–12 Tu	18:31	19:19	19:48	03:51		04:40	05:09	05:57	08:51	07:01	15:55	0·93	23 27·9 –03 28	09 36·6 +17 35
12–13 We	18:29	19:18	19:47			04:41	05:09	05:58	08:53	07:04	15:59	0·97	23 31·6 –03 04	10 23·6 +12 23
13–14 Th	18:28	19:17	19:45			04:41	05:10	05:59	08:56	07:07	16:04	1·00	23 35·2 –02 41	11 08·0 +06 46
14–15 Fr	18:27	19:15	19:44			04:42	05:11	05:59	08:58	07:09	16:09	1·00	23 38·9 –02 17	11 50·9 +00 58
15–16 Sa	18:26	19:14	19:43			04:43	05:12	06:00	09:00	07:12	16:14	0·98	23 42·6 –01 53	12 33·2 –04 47
16–17 Su	18:24	19:13	19:41			04:44	05:12	06:01	09:02	07:14	16:18	0·95	23 46·2 –01 30	13 15·8 –10 20
17–18 Mo	18:23	19:11	19:40			04:44	05:13	06:01	09:04	07:17	16:23	0·90	23 49·9 –01 06	13 59·6 –15 30
18–19 Tu	18:22	19:10	19:39		20:03	04:45	05:14	06:02	09:06	07:20	16:28	0·84	23 53·5 –00 42	14 45·4 –20 05
19–20 We	18:21	19:09	19:37		20:36	04:46	05:14	06:03	09:08	07:22	16:32	0·77	23 57·2 –00 18	15 33·8 –23 54
20–21 Th	18:19	19:07	19:36	—	21:15	04:47	05:15	06:03	09:10	07:25	16:37	0·68	00 00·8 +00 05	16 25·2 –26 44
21–22 Fr	18:18	19:06	19:35		22:00	04:47	05:16	06:04	09:12	07:27	16:42	0·59	00 04·5 +00 29	17 19·3 –28 23
22–23 Sa	18:17	19:05	19:33		22:53	04:48	05:17	06:05	09:14	07:30	16:46	0·49	00 08·1 +00 53	18 15·5 –28 39
23–24 Su	18:16	19:04	19:32		23:53	04:49	05:17	06:05	09:16	07:33	16:51	0·39	00 11·7 +01 16	19 12·7 –27 26
24–25 Mo	18:14	19:02	19:31		00:57	04:50	05:18	06:06	09:18	07:35	16:56	0·29	00 15·4 +01 40	20 09·7 –24 43
25–26 Tu	18:13	19:01	19:29		02:05	04:50	05:19	06:07	09:20	07:38	17:00	0·20	00 19·0 +02 04	21 05·4 –20 33
26–27 We	18:12	19:00	19:28		03:13	04:51	05:19	06:07	09:22	07:41	17:05	0·11	00 22·7 +02 27	21 59·7 –15 08
27–28 Th	18:11	18:59	19:27		04:22	04:52	05:20	06:08	09:24	07:43	17:10	0·05	00 26·3 +02 51	22 52·7 –08 45
28–29 Fr	18:09	18:57	19:26			04:52	05:21	06:09	09:26	07:46	17:14	0·01	00 30·0 +03 14	23 45·2 –01 45
29–30 Sa	18:08	18:56	19:24			04:53	05:21	06:09	09:28	07:49	17:19	0·00	00 33·6 +03 37	00 38·3 +05 28
30–31 Su	18:07	18:55	19:23			04:54	05:22	06:10	09:30	07:51	17:24	0·02	00 37·2 +04 01	01 32·9 +12 26
31–01 Mo	18:06	18:54	19:22			04:54	05:22	06:10	09:32	07:54	17:28	0·07	00 40·9 +04 24	02 30·2 +18 39

Siding Spring Observatory

April 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 Tu	18:04	18:52	19:20	19:48		04:55	05:23	06:11	09:34	07:57	17:33	0·14	00 44·5 +04 47	03 30·4 +23 39
02–03 We	18:03	18:51	19:19	20:37		04:56	05:24	06:12	09:36	07:59	17:37	0·23	00 48·2 +05 10	04 33·1 +27 03
03–04 Th	18:02	18:50	19:18	21:33	—	04:56	05:24	06:12	09:38	08:02	17:42	0·34	00 51·8 +05 33	05 36·8 +28 36
04–05 Fr	18:01	18:49	19:17	22:35		04:57	05:25	06:13	09:40	08:05	17:46	0·44	00 55·5 +05 56	06 39·4 +28 18
05–06 Sa	17:59	18:48	19:16	23:39		04:57	05:26	06:14	09:41	08:08	17:51	0·55	00 59·1 +06 19	07 38·8 +26 21
06–07 Su	17:58	18:46	19:14	00:43		04:58	05:26	06:14	09:43	08:10	17:56	0·66	01 02·8 +06 41	08 34·2 +23 02
07–08 Mo	17:57	18:45	19:13	01:45		04:59	05:27	06:15	09:45	08:13	18:00	0·75	01 06·5 +07 04	09 25·2 +18 42
08–09 Tu	17:56	18:44	19:12	02:44		04:59	05:27	06:16	09:47	08:16	18:05	0·83	01 10·1 +07 26	10 12·6 +13 39
09–10 We	17:55	18:43	19:11	03:41		05:00	05:28	06:16	09:49	08:19	18:09	0·90	01 13·8 +07 49	10 57·2 +08 10
10–11 Th	17:54	18:42	19:10	04:35		05:01	05:29	06:17	09:50	08:21	18:14	0·95	01 17·5 +08 11	11 40·0 +02 27
11–12 Fr	17:52	18:41	19:09			05:01	05:29	06:18	09:52	08:24	18:18	0·98	01 21·2 +08 33	12 22·1 –03 17
12–13 Sa	17:51	18:39	19:08			05:02	05:30	06:18	09:54	08:27	18:23	1·00	01 24·8 +08 55	13 04·4 –08 53
13–14 Su	17:50	18:38	19:06			05:02	05:30	06:19	09:55	08:30	18:27	1·00	01 28·5 +09 16	13 47·8 –14 09
14–15 Mo	17:49	18:37	19:05			05:03	05:31	06:19	09:57	08:33	18:32	0·98	01 32·2 +09 38	14 33·1 –18 54
15–16 Tu	17:48	18:36	19:04			05:04	05:32	06:20	09:59	08:36	18:37	0·94	01 35·9 +09 59	15 20·8 –22 56
16–17 We	17:47	18:35	19:03		19:14	05:04	05:32	06:21	10:00	08:38	18:41	0·89	01 39·6 +10 21	16 11·4 –26 02
17–18 Th	17:46	18:34	19:02		19:57	05:05	05:33	06:21	10:02	08:41	18:46	0·82	01 43·3 +10 42	17 04·5 –27 59
18–19 Fr	17:44	18:33	19:01	—	20:46	05:05	05:33	06:22	10:04	08:44	18:50	0·74	01 47·1 +11 03	17 59·7 –28 38
19–20 Sa	17:43	18:32	19:00	—	21:43	05:06	05:34	06:23	10:05	08:47	18:55	0·65	01 50·8 +11 23	18 55·7 –27 52
20–21 Su	17:42	18:31	18:59		22:44	05:06	05:35	06:23	10:07	08:50	18:59	0·55	01 54·5 +11 44	19 51·4 –25 39
21–22 Mo	17:41	18:30	18:58		23:48	05:07	05:35	06:24	10:08	08:53	19:04	0·45	01 58·3 +12 04	20 46·0 –22 04
22–23 Tu	17:40	18:29	18:57		00:54	05:08	05:36	06:25	10:10	08:56	19:08	0·34	02 02·0 +12 24	21 39·1 –17 15
23–24 We	17:39	18:28	18:56		02:00	05:08	05:36	06:25	10:11	08:59	19:13	0·24	02 05·8 +12 44	22 30·9 –11 24
24–25 Th	17:38	18:27	18:55		03:07	05:09	05:37	06:26	10:13	09:02	19:17	0·15	02 09·5 +13 04	23 22·2 –04 48
25–26 Fr	17:37	18:26	18:54		04:16	05:09	05:38	06:27	10:14	09:05	19:22	0·07	02 13·3 +13 24	00 14·0 +02 14
26–27 Sa	17:36	18:25	18:53			05:10	05:38	06:27	10:16	09:08	19:26	0·02	02 17·1 +13 43	01 07·4 +09 17
27–28 Su	17:35	18:24	18:53			05:10	05:39	06:28	10:17	09:11	19:31	0·00	02 20·9 +14 02	02 03·7 +15 55
28–29 Mo	17:34	18:23	18:52			05:11	05:39	06:29	10:19	09:14	19:35	0·01	02 24·7 +14 21	03 03·6 +21 35
29–30 Tu	17:33	18:23	18:51			05:12	05:40	06:29	10:20	09:17	19:40	0·05	02 28·5 +14 40	04 07·0 +25 46
30–01 We	17:32	18:22	18:50	19:18		05:12	05:41	06:30	10:22	09:21	19:44	0·11	02 32·3 +14 58	05 12·6 +28 07

Siding Spring Observatory

May 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 Th	17:31	18:21	18:49	20:20		05:13	05:41	06:31	10:23	09:24	19:49	0·20	02 36·1 +15 16	06 18·0 +28 29
02–03 Fr	17:31	18:20	18:48	21:27	—	05:13	05:42	06:31	10:24	09:27	19:53	0·29	02 40·0 +15 34	07 20·5 +26 59
03–04 Sa	17:30	18:19	18:48	22:33		05:14	05:42	06:32	10:26	09:30	19:58	0·40	02 43·8 +15 52	08 18·7 +23 57
04–05 Su	17:29	18:18	18:47	23:37		05:14	05:43	06:33	10:27	09:33	20:02	0·50	02 47·6 +16 09	09 11·9 +19 47
05–06 Mo	17:28	18:18	18:46	00:38		05:15	05:43	06:33	10:28	09:36	20:07	0·60	02 51·5 +16 26	10 00·8 +14 51
06–07 Tu	17:27	18:17	18:46	01:35		05:15	05:44	06:34	10:29	09:40	20:11	0·70	02 55·4 +16 43	10 46·2 +09 26
07–08 We	17:26	18:16	18:45	02:31		05:16	05:45	06:35	10:31	09:43	20:16	0·78	02 59·2 +16 59	11 29·5 +03 46
08–09 Th	17:26	18:16	18:44	03:25		05:17	05:45	06:35	10:32	09:46	20:20	0·85	03 03·1 +17 16	12 11·6 –01 57
09–10 Fr	17:25	18:15	18:44	04:18		05:17	05:46	06:36	10:33	09:49	20:25	0·91	03 07·0 +17 31	12 53·7 –07 33
10–11 Sa	17:24	18:14	18:43	05:13		05:18	05:46	06:37	10:34	09:53	20:29	0·96	03 10·9 +17 47	13 36·7 –12 53
11–12 Su	17:23	18:14	18:42			05:18	05:47	06:37	10:35	09:56	20:34	0·99	03 14·9 +18 03	14 21·4 –17 45
12–13 Mo	17:23	18:13	18:42			05:19	05:48	06:38	10:37	09:59	20:38	1·00	03 18·8 +18 18	15 08·6 –21 57
13–14 Tu	17:22	18:12	18:41			05:19	05:48	06:39	10:38	10:03	20:43	0·99	03 22·7 +18 32	15 58·7 –25 17
14–15 We	17:21	18:12	18:41			05:20	05:49	06:39	10:39	10:06	20:47	0·97	03 26·7 +18 47	16 51·5 –27 31
15–16 Th	17:21	18:11	18:40	—	18:43	05:20	05:49	06:40	10:40	10:10	20:52	0·92	03 30·6 +19 01	17 46·3 –28 28
16–17 Fr	17:20	18:11	18:40		19:37	05:21	05:50	06:40	10:41	10:13	20:56	0·86	03 34·6 +19 15	18 42·1 –28 01
17–18 Sa	17:20	18:10	18:39		20:37	05:21	05:50	06:41	10:42	10:17	21:01	0·79	03 38·5 +19 28	19 37·6 –26 09
18–19 Su	17:19	18:10	18:39	—	21:40	05:22	05:51	06:42	10:43	10:20	21:05	0·70	03 42·5 +19 41	20 31·7 –22 56
19–20 Mo	17:18	18:09	18:38		22:43	05:22	05:51	06:42	10:44	10:24	21:10	0·60	03 46·5 +19 54	21 24·0 –18 31
20–21 Tu	17:18	18:09	18:38		23:48	05:23	05:52	06:43	10:45	10:27	21:14	0·49	03 50·5 +20 07	22 14·7 –13 07
21–22 We	17:17	18:08	18:37		00:52	05:24	05:53	06:44	10:46	10:31	21:19	0·38	03 54·5 +20 19	23 04·5 –06 57
22–23 Th	17:17	18:08	18:37		01:57	05:24	05:53	06:44	10:46	10:34	21:23	0·27	03 58·5 +20 30	23 54·3 –00 17
23–24 Fr	17:17	18:08	18:37		03:04	05:25	05:54	06:45	10:47	10:38	21:27	0·18	04 02·6 +20 42	00 45·4 +06 35
24–25 Sa	17:16	18:07	18:36		04:14	05:25	05:54	06:45	10:48	10:42	21:32	0·10	04 06·6 +20 53	01 39·1 +13 14
25–26 Su	17:16	18:07	18:36			05:26	05:55	06:46	10:49	10:45	21:36	0·04	04 10·7 +21 04	02 36·5 +19 14
26–27 Mo	17:15	18:07	18:36			05:26	05:55	06:47	10:50	10:49	21:41	0·00	04 14·7 +21 14	03 38·2 +24 04
27–28 Tu	17:15	18:06	18:36			05:27	05:56	06:47	10:50	10:52	21:45	0·00	04 18·8 +21 24	04 43·4 +27 14
28–29 We	17:15	18:06	18:35			05:27	05:56	06:48	10:51	10:56	21:50	0·03	04 22·8 +21 34	05 50·3 +28 26
29–30 Th	17:14	18:06	18:35	19:07		05:27	05:57	06:48	10:52	11:00	21:54	0·08	04 26·9 +21 43	06 55·7 +27 37
30–31 Fr	17:14	18:06	18:35	20:16		05:28	05:57	06:49	10:52	11:04	21:58	0·16	04 31·0 +21 52	07 57·3 +25 03
31–01 Sa	17:14	18:05	18:35	21:23		05:28	05:58	06:49	10:53	11:07	22:03	0·25	04 35·1 +22 00	08 53·8 +21 07

Siding Spring Observatory

June 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 Su	17:14	18:05	18:35	22:27		05:29	05:58	06:50	10:54	11:11	22:07	0·34	04 39·2 +22 08	09 45·3 +16 16
02–03 Mo	17:13	18:05	18:35	23:27	—	05:29	05:59	06:51	10:54	11:15	22:12	0·44	04 43·3 +22 16	10 32·7 +10 52
03–04 Tu	17:13	18:05	18:34	00:24		05:30	05:59	06:51	10:55	11:19	22:16	0·54	04 47·4 +22 23	11 17·1 +05 10
04–05 We	17:13	18:05	18:34	01:19		05:30	06:00	06:52	10:55	11:23	22:20	0·64	04 51·5 +22 30	11 59·9 –00 35
05–06 Th	17:13	18:05	18:34	02:13		05:31	06:00	06:52	10:56	11:27	22:25	0·73	04 55·6 +22 37	12 42·1 –06 14
06–07 Fr	17:13	18:05	18:34	03:07		05:31	06:00	06:52	10:56	11:31	22:29	0·81	04 59·8 +22 43	13 24·8 –11 38
07–08 Sa	17:13	18:05	18:34	04:03		05:31	06:01	06:53	10:57	11:34	22:33	0·88	05 03·9 +22 49	14 09·1 –16 36
08–09 Su	17:13	18:05	18:34	05:00		05:32	06:01	06:53	10:57	11:38	22:38	0·93	05 08·0 +22 54	14 55·7 –20 58
09–10 Mo	17:13	18:05	18:34			05:32	06:02	06:54	10:57	11:42	22:42	0·97	05 12·2 +22 59	15 45·1 –24 31
10–11 Tu	17:13	18:05	18:34			05:32	06:02	06:54	10:58	11:46	22:46	0·99	05 16·3 +23 03	16 37·5 –27 02
11–12 We	17:13	18:05	18:34			05:33	06:02	06:55	10:58	11:50	22:51	1·00	05 20·4 +23 08	17 32·3 –28 17
12–13 Th	17:13	18:05	18:34			05:33	06:03	06:55	10:58	11:54	22:55	0·98	05 24·6 +23 11	18 28·5 –28 09
13–14 Fr	17:13	18:05	18:34			05:34	06:03	06:55	10:59	11:58	22:59	0·95	05 28·7 +23 15	19 24·5 –26 33
14–15 Sa	17:13	18:05	18:34		19:33	05:34	06:03	06:56	10:59	12:02	23:03	0·89	05 32·9 +23 17	20 19·2 –23 35
15–16 Su	17:13	18:05	18:35		20:37	05:34	06:04	06:56	10:59	12:06	23:08	0·82	05 37·0 +23 20	21 12·0 –19 24
16–17 Mo	17:13	18:05	18:35		21:41	05:34	06:04	06:56	10:59	12:10	23:12	0·73	05 41·2 +23 22	22 02·6 –14 14
17–18 Tu	17:13	18:05	18:35		22:44	05:35	06:04	06:57	10:59	12:15	23:16	0·63	05 45·4 +23 24	22 51·8 –08 18
18–19 We	17:13	18:05	18:35	—	23:47	05:35	06:05	06:57	10:59	12:19	23:20	0·52	05 49·5 +23 25	23 40·4 –01 53
19–20 Th	17:13	18:06	18:35		00:51	05:35	06:05	06:57	10:59	12:23	23:25	0·41	05 53·7 +23 26	00 29·6 +04 45
20–21 Fr	17:13	18:06	18:35		01:58	05:35	06:05	06:57	10:59	12:27	23:29	0·30	05 57·8 +23 26	01 20·8 +11 17
21–22 Sa	17:14	18:06	18:36		03:07	05:36	06:05	06:58	10:59	12:31	23:33	0·20	06 02·0 +23 26	02 15·2 +17 21
22–23 Su	17:14	18:06	18:36		04:20	05:36	06:05	06:58	10:59	12:35	23:37	0·11	06 06·2 +23 26	03 13·7 +22 29
23–24 Mo	17:14	18:06	18:36		05:34	05:36	06:06	06:58	10:59	12:39	23:41	0·05	06 10·3 +23 25	04 16·4 +26 13
24–25 Tu	17:14	18:07	18:36			05:36	06:06	06:58	10:59	12:44	23:45	0·01	06 14·5 +23 24	05 22·1 +28 10
25–26 We	17:15	18:07	18:37			05:36	06:06	06:58	10:59	12:48	23:49	0·00	06 18·6 +23 22	06 28·3 +28 08
26–27 Th	17:15	18:07	18:37			05:36	06:06	06:58	10:59	12:52	23:53	0·02	06 22·8 +23 20	07 32·1 +26 11
27–28 Fr	17:15	18:08	18:37	19:03		05:37	06:06	06:58	10:59	12:56	23:58	0·06	06 27·0 +23 17	08 31·5 +22 40
28–29 Sa	17:16	18:08	18:38	20:10	—	05:37	06:06	06:58	10:59	13:01	00:02	0·12	06 31·1 +23 15	09 25·8 +18 01
29–30 Su	17:16	18:08	18:38	21:13		05:37	06:06	06:59	10:58	13:05	00:06	0·20	06 35·2 +23 11	10 15·6 +12 38
30–01 Mo	17:16	18:09	18:38	22:13		05:37	06:06	06:59	10:58	13:09	00:10	0·29	06 39·4 +23 08	11 01·9 +06 54

Siding Spring Observatory

July 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 Tu	17:17	18:09	18:39	23:09		05:37	06:06	06:59	10:58	13:13	00:14	0·38	06 43·5 +23 04	11 45·8 +01 02
02–03 We	17:17	18:09	18:39	00:04		05:37	06:06	06:58	10:57	13:18	00:18	0·48	06 47·7 +22 59	12 28·6 –04 44
03–04 Th	17:18	18:10	18:39	00:59	—	05:37	06:06	06:58	10:57	13:22	00:21	0·57	06 51·8 +22 54	13 11·5 –10 16
04–05 Fr	17:18	18:10	18:40	01:54		05:37	06:06	06:58	10:57	13:26	00:25	0·67	06 55·9 +22 49	13 55·4 –15 23
05–06 Sa	17:19	18:11	18:40	02:51		05:37	06:06	06:58	10:56	13:31	00:29	0·75	07 00·0 +22 43	14 41·3 –19 55
06–07 Su	17:19	18:11	18:40	03:49		05:37	06:06	06:58	10:56	13:35	00:33	0·83	07 04·1 +22 37	15 29·9 –23 42
07–08 Mo	17:19	18:11	18:41	04:48		05:37	06:06	06:58	10:55	13:39	00:37	0·90	07 08·2 +22 31	16 21·5 –26 30
08–09 Tu	17:20	18:12	18:41			05:37	06:06	06:58	10:55	13:44	00:41	0·95	07 12·3 +22 24	17 15·9 –28 07
09–10 We	17:20	18:12	18:42			05:36	06:06	06:58	10:54	13:48	00:45	0·98	07 16·4 +22 17	18 12·1 –28 21
10–11 Th	17:21	18:13	18:42			05:36	06:06	06:57	10:54	13:52	00:48	1·00	07 20·5 +22 09	19 08·9 –27 06
11–12 Fr	17:21	18:13	18:42			05:36	06:05	06:57	10:53	13:57	00:52	0·99	07 24·6 +22 01	20 04·8 –24 25
12–13 Sa	17:22	18:14	18:43			05:36	06:05	06:57	10:53	14:01	00:56	0·97	07 28·6 +21 52	20 58·7 –20 26
13–14 Su	17:22	18:14	18:43		19:33	05:36	06:05	06:57	10:52	14:06	01:00	0·92	07 32·7 +21 44	21 50·5 –15 23
14–15 Mo	17:23	18:14	18:44		20:38	05:35	06:05	06:56	10:51	14:10	01:03	0·85	07 36·7 +21 35	22 40·4 –09 31
15–16 Tu	17:24	18:15	18:44		21:41	05:35	06:04	06:56	10:50	14:14	01:07	0·76	07 40·8 +21 25	23 29·2 –03 09
16–17 We	17:24	18:15	18:45		22:44	05:35	06:04	06:55	10:50	14:19	01:11	0·66	07 44·8 +21 15	00 17·9 +03 27
17–18 Th	17:25	18:16	18:45		23:49	05:35	06:04	06:55	10:49	14:23	01:14	0·55	07 48·8 +21 05	01 07·9 +09 58
18–19 Fr	17:25	18:16	18:46		00:56	05:34	06:03	06:55	10:48	14:28	01:18	0·44	07 52·9 +20 54	02 00·4 +16 02
19–20 Sa	17:26	18:17	18:46	—	02:06	05:34	06:03	06:54	10:47	14:32	01:22	0·32	07 56·9 +20 43	02 56·3 +21 19
20–21 Su	17:26	18:17	18:47		03:18	05:34	06:03	06:54	10:47	14:36	01:25	0·22	08 00·9 +20 32	03 56·2 +25 23
21–22 Mo	17:27	18:18	18:47		04:27	05:33	06:02	06:53	10:46	14:41	01:29	0·13	08 04·9 +20 20	04 59·5 +27 50
22–23 Tu	17:28	18:18	18:48		05:32	05:33	06:02	06:53	10:45	14:45	01:32	0·06	08 08·8 +20 08	06 04·3 +28 27
23–24 We	17:28	18:19	18:48			05:32	06:01	06:52	10:44	14:50	01:36	0·02	08 12·8 +19 56	07 08·2 +27 09
24–25 Th	17:29	18:19	18:48			05:32	06:01	06:52	10:43	14:54	01:39	0·00	08 16·8 +19 44	08 08·8 +24 10
25–26 Fr	17:29	18:20	18:49			05:31	06:00	06:51	10:42	14:59	01:43	0·01	08 20·7 +19 31	09 05·0 +19 52
26–27 Sa	17:30	18:21	18:49	18:57		05:31	06:00	06:50	10:41	15:03	01:46	0·04	08 24·7 +19 17	09 56·7 +14 39
27–28 Su	17:30	18:21	18:50	19:58		05:30	05:59	06:50	10:40	15:07	01:50	0·09	08 28·6 +19 04	10 44·6 +08 55
28–29 Mo	17:31	18:22	18:50	20:57		05:30	05:59	06:49	10:39	15:12	01:53	0·15	08 32·5 +18 50	11 29·8 +02 58
29–30 Tu	17:32	18:22	18:51	21:53		05:29	05:58	06:48	10:38	15:16	01:56	0·23	08 36·4 +18 35	12 13·5 –02 56
30–31 We	17:32	18:23	18:51	22:49		05:29	05:57	06:48	10:37	15:21	02:00	0·32	08 40·3 +18 21	12 56·7 –08 38
31–01 Th	17:33	18:23	18:52	23:44		05:28	05:57	06:47	10:36	15:25	02:03	0·41	08 44·2 +18 06	13 40·5 –13 57

Siding Spring Observatory

August 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 Fr	17:34	18:24	18:52	00:41		05:27	05:56	06:46	10:35	15:30	02:06	0·51	08 48·1 +17 51	14 25·8 –18 42
02–03 Sa	17:34	18:24	18:53	01:39		05:27	05:56	06:46	10:33	15:34	02:10	0·60	08 52·0 +17 36	15 13·5 –22 45
03–04 Su	17:35	18:25	18:53	02:37	—	05:26	05:55	06:45	10:32	15:39	02:13	0·69	08 55·8 +17 20	16 03·9 –25 52
04–05 Mo	17:35	18:25	18:54	03:35		05:25	05:54	06:44	10:31	15:43	02:16	0·78	08 59·7 +17 04	16 57·3 –27 52
05–06 Tu	17:36	18:26	18:54	04:30		05:25	05:53	06:43	10:30	15:47	02:19	0·85	09 03·5 +16 48	17 52·9 –28 32
06–07 We	17:37	18:26	18:55	05:21		05:24	05:53	06:42	10:29	15:52	02:23	0·92	09 07·4 +16 31	18 49·7 –27 46
07–08 Th	17:37	18:27	18:55			05:23	05:52	06:41	10:27	15:56	02:26	0·97	09 11·2 +16 14	19 46·2 –25 31
08–09 Fr	17:38	18:27	18:56			05:22	05:51	06:41	10:26	16:01	02:29	0·99	09 15·0 +15 57	20 41·4 –21 51
09–10 Sa	17:38	18:28	18:56			05:22	05:50	06:40	10:25	16:05	02:32	1·00	09 18·8 +15 40	21 34·7 –17 00
10–11 Su	17:39	18:29	18:57			05:21	05:49	06:39	10:23	16:10	02:35	0·98	09 22·6 +15 22	22 26·0 –11 12
11–12 Mo	17:40	18:29	18:57		19:32	05:20	05:48	06:38	10:22	16:14	02:38	0·94	09 26·4 +15 04	23 16·0 –04 47
12–13 Tu	17:40	18:30	18:58		20:36	05:19	05:48	06:37	10:21	16:19	02:41	0·87	09 30·1 +14 46	00 05·6 +01 57
13–14 We	17:41	18:30	18:59		21:42	05:18	05:47	06:36	10:19	16:23	02:44	0·79	09 33·9 +14 28	00 55·9 +08 37
14–15 Th	17:41	18:31	18:59	—	22:49	05:17	05:46	06:35	10:18	16:27	02:48	0·68	09 37·6 +14 10	01 48·1 +14 53
15–16 Fr	17:42	18:31	19:00		23:58	05:17	05:45	06:34	10:16	16:32	02:51	0·57	09 41·4 +13 51	02 43·2 +20 22
16–17 Sa	17:43	18:32	19:00		01:08	05:16	05:44	06:33	10:15	16:36	02:54	0·46	09 45·1 +13 32	03 41·7 +24 42
17–18 Su	17:43	18:32	19:01	—	02:18	05:15	05:43	06:32	10:14	16:41	02:57	0·34	09 48·9 +13 13	04 43·3 +27 31
18–19 Mo	17:44	18:33	19:01		03:23	05:14	05:42	06:31	10:12	16:45	03:00	0·24	09 52·6 +12 53	05 46·7 +28 35
19–20 Tu	17:44	18:33	19:02		04:20	05:13	05:41	06:30	10:11	16:50	03:03	0·15	09 56·3 +12 34	06 49·6 +27 48
20–21 We	17:45	18:34	19:02		05:09	05:12	05:40	06:29	10:09	16:54	03:05	0·08	10 00·0 +12 14	07 50·1 +25 20
21–22 Th	17:46	18:34	19:03			05:11	05:39	06:28	10:08	16:59	03:08	0·03	10 03·7 +11 54	08 46·7 +21 27
22–23 Fr	17:46	18:35	19:03			05:10	05:38	06:26	10:06	17:03	03:11	0·01	10 07·4 +11 34	09 39·2 +16 32
23–24 Sa	17:47	18:35	19:04			05:09	05:37	06:25	10:04	17:08	03:14	0·00	10 11·1 +11 13	10 27·9 +10 57
24–25 Su	17:47	18:36	19:04			05:08	05:36	06:24	10:03	17:12	03:17	0·02	10 14·7 +10 53	11 13·9 +05 02
25–26 Mo	17:48	18:37	19:05	19:42		05:06	05:35	06:23	10:01	17:17	03:20	0·06	10 18·4 +10 32	11 58·1 –00 58
26–27 Tu	17:49	18:37	19:05	20:38		05:05	05:33	06:22	10:00	17:21	03:23	0·11	10 22·1 +10 11	12 41·6 –06 48
27–28 We	17:49	18:38	19:06	21:34		05:04	05:32	06:21	09:58	17:25	03:26	0·18	10 25·7 +09 50	13 25·4 –12 18
28–29 Th	17:50	18:38	19:06	22:30		05:03	05:31	06:20	09:56	17:30	03:28	0·26	10 29·4 +09 29	14 10·3 –17 18
29–30 Fr	17:50	18:39	19:07	23:27		05:02	05:30	06:18	09:55	17:34	03:31	0·34	10 33·0 +09 08	14 57·2 –21 36
30–31 Sa	17:51	18:39	19:07	00:25		05:01	05:29	06:17	09:53	17:39	03:34	0·43	10 36·6 +08 46	15 46·5 –25 02
31–01 Su	17:52	18:40	19:08	01:23		05:00	05:28	06:16	09:51	17:43	03:37	0·53	10 40·3 +08 25	16 38·5 –27 25

Siding Spring Observatory

September 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 Mo	17:52	18:40	19:08	02:19	—	04:59	05:27	06:15	09:50	17:48	03:40	0·63	10 43·9 +08 03	17 32·9 –28 33
02–03 Tu	17:53	18:41	19:09	03:12	—	04:57	05:25	06:14	09:48	17:52	03:42	0·72	10 47·5 +07 41	18 28·8 –28 18
03–04 We	17:53	18:41	19:10	03:59		04:56	05:24	06:12	09:46	17:57	03:45	0·81	10 51·1 +07 19	19 25·0 –26 36
04–05 Th	17:54	18:42	19:10	04:41		04:55	05:23	06:11	09:44	18:01	03:48	0·88	10 54·7 +06 57	20 20·4 –23 28
05–06 Fr	17:54	18:43	19:11			04:54	05:22	06:10	09:43	18:06	03:51	0·94	10 58·3 +06 34	21 14·4 –19 02
06–07 Sa	17:55	18:43	19:11			04:52	05:21	06:09	09:41	18:10	03:53	0·98	11 01·9 +06 12	22 06·8 –13 30
07–08 Su	17:56	18:44	19:12			04:51	05:19	06:07	09:39	18:15	03:56	1·00	11 05·5 +05 50	22 57·9 –07 10
08–09 Mo	17:56	18:44	19:12			04:50	05:18	06:06	09:37	18:19	03:59	0·99	11 09·1 +05 27	23 48·6 –00 21
09–10 Tu	17:57	18:45	19:13		19:28	04:49	05:17	06:05	09:35	18:24	04:01	0·95	11 12·7 +05 04	00 39·9 +06 35
10–11 We	17:57	18:45	19:13		20:37	04:47	05:16	06:04	09:33	18:28	04:04	0·89	11 16·3 +04 42	01 32·9 +13 12
11–12 Th	17:58	18:46	19:14		21:47	04:46	05:14	06:02	09:32	18:33	04:07	0·81	11 19·9 +04 19	02 28·5 +19 06
12–13 Fr	17:58	18:46	19:15		22:59	04:45	05:13	06:01	09:30	18:37	04:09	0·71	11 23·5 +03 56	03 27·3 +23 51
13–14 Sa	17:59	18:47	19:15		00:10	04:44	05:12	06:00	09:28	18:42	04:12	0·60	11 27·1 +03 33	04 29·0 +27 05
14–15 Su	18:00	18:48	19:16		01:17	04:42	05:10	05:58	09:26	18:46	04:14	0·48	11 30·7 +03 10	05 32·4 +28 33
15–16 Mo	18:00	18:48	19:16	—	02:16	04:41	05:09	05:57	09:24	18:51	04:17	0·37	11 34·3 +02 47	06 35·3 +28 11
16–17 Tu	18:01	18:49	19:17		03:07	04:40	05:08	05:56	09:22	18:56	04:20	0·27	11 37·8 +02 24	07 35·8 +26 06
17–18 We	18:01	18:49	19:18		03:50	04:38	05:07	05:55	09:20	19:00	04:22	0·18	11 41·4 +02 01	08 32·5 +22 35
18–19 Th	18:02	18:50	19:18		04:25	04:37	05:05	05:53	09:18	19:05	04:25	0·11	11 45·0 +01 37	09 25·1 +17 59
19–20 Fr	18:02	18:51	19:19			04:36	05:04	05:52	09:16	19:09	04:27	0·05	11 48·6 +01 14	10 14·1 +12 39
20–21 Sa	18:03	18:51	19:20			04:34	05:03	05:51	09:14	19:14	04:30	0·02	11 52·2 +00 51	11 00·2 +06 52
21–22 Su	18:04	18:52	19:20			04:33	05:01	05:49	09:12	19:18	04:33	0·00	11 55·8 +00 27	11 44·4 +00 55
22–23 Mo	18:04	18:52	19:21			04:31	05:00	05:48	09:10	19:23	04:35	0·01	11 59·4 +00 04	12 27·9 –04 59
23–24 Tu	18:05	18:53	19:21	19:24		04:30	04:59	05:47	09:08	19:28	04:38	0·03	12 03·0 –00 19	13 11·5 –10 37
24–25 We	18:05	18:54	19:22	20:20		04:29	04:57	05:45	09:06	19:32	04:40	0·07	12 06·6 –00 43	13 56·0 –15 47
25–26 Th	18:06	18:54	19:23	21:17		04:27	04:56	05:44	09:04	19:37	04:43	0·13	12 10·2 –01 06	14 42·3 –20 20
26–27 Fr	18:07	18:55	19:24	22:15		04:26	04:55	05:43	09:02	19:42	04:46	0·20	12 13·8 –01 29	15 30·8 –24 03
27–28 Sa	18:07	18:56	19:24	23:13		04:25	04:53	05:42	09:00	19:46	04:48	0·28	12 17·4 –01 53	16 21·7 –26 46
28–29 Su	18:08	18:56	19:25	00:09		04:23	04:52	05:40	08:58	19:51	04:51	0·36	12 21·0 –02 16	17 14·8 –28 18
29–30 Mo	18:08	18:57	19:26	01:03		04:22	04:51	05:39	08:56	19:56	04:53	0·46	12 24·6 –02 39	18 09·5 –28 31
30–01 Tu	18:09	18:58	19:26	01:51		04:20	04:49	05:38	08:54	20:00	04:56	0·56	12 28·2 –03 03	19 04·6 –27 21

Siding Spring Observatory

October 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 We	18:10	18:58	19:27	02:34	—	04:19	04:48	05:36	08:51	20:05	04:58	0·66	12 31·8 –03 26	19 59·3 –24 48
02–03 Th	18:10	18:59	19:28	03:13		04:18	04:47	05:35	08:49	20:10	05:01	0·75	12 35·4 –03 49	20 52·8 –20 56
03–04 Fr	18:11	19:00	19:29	03:47		04:16	04:45	05:34	08:47	20:14	05:03	0·84	12 39·1 –04 12	21 44·9 –15 55
04–05 Sa	18:12	19:00	19:29			04:15	04:44	05:33	08:45	20:19	05:06	0·91	12 42·7 –04 35	22 36·0 –09 57
05–06 Su	18:12	19:01	19:30			04:14	04:43	05:31	08:43	20:24	05:08	0·97	12 46·3 –04 58	23 26·8 –03 18
06–07 Mo	18:13	19:02	19:31			04:12	04:41	05:30	08:41	20:28	05:11	1·00	12 50·0 –05 21	00 18·3 +03 41
07–08 Tu	18:14	19:02	19:32			04:11	04:40	05:29	08:38	20:33	05:14	1·00	12 53·6 –05 44	01 11·5 +10 36
08–09 We	18:14	19:03	19:33			04:09	04:39	05:28	08:36	20:38	05:16	0·97	12 57·3 –06 07	02 07·6 +16 59
09–10 Th	18:15	19:04	19:33		20:41	04:08	04:37	05:27	08:34	20:43	05:19	0·91	13 01·0 –06 30	03 07·2 +22 21
10–11 Fr	18:16	19:05	19:34		21:56	04:07	04:36	05:25	08:32	20:48	05:21	0·84	13 04·6 –06 53	04 10·2 +26 13
11–12 Sa	18:16	19:06	19:35		23:07	04:05	04:35	05:24	08:30	20:52	05:24	0·74	13 08·3 –07 15	05 15·1 +28 16
12–13 Su	18:17	19:06	19:36		00:11	04:04	04:34	05:23	08:27	20:57	05:26	0·63	13 12·0 –07 38	06 19·9 +28 22
13–14 Mo	18:18	19:07	19:37		01:05	04:03	04:32	05:22	08:25	21:02	05:29	0·52	13 15·7 –08 00	07 22·0 +26 39
14–15 Tu	18:18	19:08	19:38	—	01:50	04:01	04:31	05:21	08:23	21:07	05:32	0·41	13 19·4 –08 23	08 19·9 +23 25
15–16 We	18:19	19:09	19:39		02:27	04:00	04:30	05:19	08:21	21:12	05:34	0·31	13 23·1 –08 45	09 13·3 +19 03
16–17 Th	18:20	19:10	19:40		02:59	03:59	04:29	05:18	08:18	21:16	05:37	0·22	13 26·9 –09 07	10 02·7 +13 54
17–18 Fr	18:20	19:10	19:40		03:28	03:57	04:27	05:17	08:16	21:21	05:39	0·14	13 30·6 –09 29	10 48·9 +08 16
18–19 Sa	18:21	19:11	19:41		03:54	03:56	04:26	05:16	08:14	21:26	05:42	0·08	13 34·4 –09 51	11 33·1 +02 26
19–20 Su	18:22	19:12	19:42			03:55	04:25	05:15	08:12	21:31	05:45	0·03	13 38·1 –10 12	12 16·3 –03 25
20–21 Mo	18:23	19:13	19:43			03:53	04:24	05:14	08:09	21:36	05:47	0·01	13 41·9 –10 34	12 59·4 –09 05
21–22 Tu	18:23	19:14	19:44			03:52	04:23	05:13	08:07	21:41	05:50	0·00	13 45·7 –10 55	13 43·5 –14 22
22–23 We	18:24	19:15	19:45			03:51	04:21	05:12	08:05	21:46	05:53	0·01	13 49·5 –11 16	14 29·2 –19 05
23–24 Th	18:25	19:16	19:46	20:07		03:49	04:20	05:11	08:03	21:51	05:55	0·04	13 53·3 –11 37	15 17·1 –23 01
24–25 Fr	18:26	19:16	19:47	21:05		03:48	04:19	05:10	08:00	21:56	05:58	0·08	13 57·1 –11 58	16 07·4 –26 01
25–26 Sa	18:27	19:17	19:48	22:02		03:47	04:18	05:09	07:58	22:01	06:01	0·14	14 00·9 –12 19	16 59·8 –27 52
26–27 Su	18:27	19:18	19:49	22:56		03:46	04:17	05:08	07:56	22:06	06:03	0·21	14 04·8 –12 39	17 53·6 –28 27
27–28 Mo	18:28	19:19	19:50	23:45		03:44	04:16	05:07	07:54	22:11	06:06	0·30	14 08·6 –12 59	18 47·9 –27 42
28–29 Tu	18:29	19:20	19:51	00:30		03:43	04:15	05:06	07:51	22:16	06:09	0·39	14 12·5 –13 19	19 41·7 –25 37
29–30 We	18:30	19:21	19:53	01:09		03:42	04:13	05:05	07:49	22:21	06:12	0·49	14 16·4 –13 39	20 34·2 –22 16
30–31 Th	18:31	19:22	19:54	01:44	—	03:41	04:12	05:04	07:47	22:26	06:14	0·59	14 20·2 –13 59	21 25·3 –17 47
31–01 Fr	18:31	19:23	19:55	02:16		03:40	04:11	05:03	07:45	22:31	06:17	0·69	14 24·1 –14 18	22 15·3 –12 20

Siding Spring Observatory

November 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 Sa	18:32	19:24	19:56	02:46		03:39	04:10	05:02	07:42	22:36	06:20	0·79	14 28·1 –14 38	23 04·7 –06 07
02–03 Su	18:33	19:25	19:57	03:16		03:37	04:09	05:01	07:40	22:41	06:23	0·88	14 32·0 –14 56	23 54·8 +00 36
03–04 Mo	18:34	19:26	19:58			03:36	04:08	05:00	07:38	22:46	06:25	0·94	14 35·9 –15 15	00 46·6 +07 29
04–05 Tu	18:35	19:27	19:59			03:35	04:07	05:00	07:36	22:51	06:28	0·99	14 39·9 –15 34	01 41·3 +14 08
05–06 We	18:36	19:28	20:00			03:34	04:06	04:59	07:33	22:56	06:31	1·00	14 43·9 –15 52	02 40·1 +20 03
06–07 Th	18:36	19:29	20:01			03:33	04:06	04:58	07:31	23:01	06:34	0·98	14 47·8 –16 10	03 43·2 +24 41
07–08 Fr	18:37	19:30	20:02		20:45	03:32	04:05	04:57	07:29	23:06	06:37	0·94	14 51·8 –16 27	04 49·6 +27 33
08–09 Sa	18:38	19:31	20:04		21:56	03:31	04:04	04:57	07:27	23:11	06:40	0·87	14 55·8 –16 45	05 57·1 +28 23
09–10 Su	18:39	19:32	20:05		22:56	03:30	04:03	04:56	07:25	23:16	06:43	0·78	14 59·9 –17 02	07 02·5 +27 11
10–11 Mo	18:40	19:33	20:06		23:46	03:29	04:02	04:55	07:23	23:22	06:46	0·67	15 03·9 –17 19	08 03·6 +24 17
11–12 Tu	18:41	19:34	20:07		00:27	03:28	04:01	04:54	07:21	23:27	06:49	0·57	15 08·0 –17 35	08 59·6 +20 05
12–13 We	18:42	19:35	20:08	—	01:01	03:27	04:00	04:54	07:18	23:32	06:52	0·46	15 12·0 –17 51	09 50·7 +15 02
13–14 Th	18:43	19:36	20:09		01:31	03:26	04:00	04:53	07:16	23:37	06:55	0·36	15 16·1 –18 07	10 37·9 +09 28
14–15 Fr	18:43	19:37	20:11		01:58	03:25	03:59	04:53	07:14	23:42	06:58	0·27	15 20·2 –18 23	11 22·6 +03 40
15–16 Sa	18:44	19:38	20:12		02:23	03:25	03:58	04:52	07:12	23:47	07:01	0·19	15 24·3 –18 38	12 05·8 –02 09
16–17 Su	18:45	19:39	20:13		02:49	03:24	03:58	04:52	07:10	23:52	07:04	0·12	15 28·4 –18 53	12 48·7 –07 49
17–18 Mo	18:46	19:40	20:14		03:15	03:23	03:57	04:51	07:08	23:57	07:07	0·06	15 32·6 –19 08	13 32·3 –13 09
18–19 Tu	18:47	19:41	20:15			03:22	03:56	04:51	07:06	00:02	07:11	0·03	15 36·7 –19 22	14 17·4 –17 57
19–20 We	18:48	19:42	20:17			03:22	03:56	04:50	07:05	00:08	07:14	0·00	15 40·9 –19 36	15 04·7 –22 04
20–21 Th	18:49	19:43	20:18			03:21	03:55	04:50	07:03	00:13	07:17	0·00	15 45·1 –19 49	15 54·4 –25 17
21–22 Fr	18:50	19:44	20:19			03:20	03:55	04:49	07:01	00:18	07:20	0·02	15 49·3 –20 03	16 46·4 –27 24
22–23 Sa	18:51	19:45	20:20	20:51		03:20	03:54	04:49	06:59	00:23	07:24	0·05	15 53·5 –20 15	17 40·1 –28 17
23–24 Su	18:51	19:46	20:21	21:42		03:19	03:54	04:49	06:57	00:28	07:27	0·10	15 57·7 –20 28	18 34·3 –27 50
24–25 Mo	18:52	19:47	20:22	22:27		03:18	03:53	04:48	06:56	00:33	07:30	0·16	16 01·9 –20 40	19 27·9 –26 03
25–26 Tu	18:53	19:49	20:23	23:07		03:18	03:53	04:48	06:54	00:38	07:34	0·24	16 06·2 –20 52	20 20·1 –23 02
26–27 We	18:54	19:50	20:25	23:43		03:17	03:53	04:48	06:52	00:43	07:37	0·33	16 10·4 –21 03	21 10·6 –18 55
27–28 Th	18:55	19:51	20:26	00:15		03:17	03:52	04:48	06:51	00:48	07:41	0·43	16 14·7 –21 14	21 59·4 –13 53
28–29 Fr	18:56	19:52	20:27	00:45	—	03:17	03:52	04:48	06:49	00:53	07:44	0·53	16 19·0 –21 24	22 47·4 –08 06
29–30 Sa	18:57	19:52	20:28	01:14		03:16	03:52	04:47	06:48	00:58	07:48	0·64	16 23·3 –21 35	23 35·4 –01 47
30–01 Su	18:58	19:53	20:29	01:43		03:16	03:51	04:47	06:46	01:03	07:51	0·74	16 27·6 –21 44	00 24·6 +04 49

Siding Spring Observatory

December 2025

DATE	EVENING SUN			MOON		MORNING SUN			HOURS	TWILIGHTS		MOON	SUN	MOON
	set	–12˚	–18˚	set	rise	–18˚	–12˚	rise	twi–twi	sidereal time		phase	(apparent)	(apparent)
01–02 Mo	18:58	19:54	20:30	02:16		03:16	03:51	04:47	06:45	01:08	07:55	0·84	16 31·9 –21 54	01 16·4 +11 24
02–03 Tu	18:59	19:55	20:31	02:53		03:15	03:51	04:47	06:44	01:13	07:59	0·91	16 36·2 –22 02	02 12·1 +17 31
03–04 We	19:00	19:56	20:32			03:15	03:51	04:47	06:42	01:18	08:02	0·97	16 40·6 –22 11	03 12·6 +22 42
04–05 Th	19:01	19:57	20:33			03:15	03:51	04:47	06:41	01:23	08:06	1·00	16 44·9 –22 19	04 17·8 +26 24
05–06 Fr	19:02	19:58	20:34			03:15	03:51	04:47	06:40	01:28	08:10	0·99	16 49·3 –22 26	05 26·0 +28 09
06–07 Sa	19:02	19:59	20:35		20:38	03:15	03:51	04:47	06:39	01:33	08:14	0·96	16 53·6 –22 34	06 34·3 +27 47
07–08 Su	19:03	20:00	20:36		21:35	03:14	03:51	04:47	06:38	01:38	08:18	0·90	16 58·0 –22 40	07 39·4 +25 26
08–09 Mo	19:04	20:01	20:37		22:21	03:14	03:51	04:47	06:37	01:43	08:22	0·82	17 02·4 –22 47	08 39·3 +21 31
09–10 Tu	19:05	20:01	20:38		22:59	03:14	03:51	04:48	06:36	01:48	08:26	0·73	17 06·8 –22 52	09 33·7 +16 32
10–11 We	19:05	20:02	20:39		23:32	03:15	03:51	04:48	06:35	01:53	08:30	0·63	17 11·2 –22 58	10 23·5 +10 56
11–12 Th	19:06	20:03	20:40	—	24:00	03:15	03:51	04:48	06:35	01:57	08:34	0·53	17 15·6 –23 03	11 09·8 +05 03
12–13 Fr	19:07	20:04	20:40		00:26	03:15	03:51	04:48	06:34	02:02	08:38	0·43	17 20·0 –23 07	11 54·0 –00 51
13–14 Sa	19:08	20:05	20:41		00:52	03:15	03:51	04:49	06:33	02:07	08:42	0·33	17 24·4 –23 11	12 37·3 –06 36
14–15 Su	19:08	20:05	20:42		01:18	03:15	03:52	04:49	06:33	02:12	08:46	0·25	17 28·8 –23 15	13 20·8 –12 01
15–16 Mo	19:09	20:06	20:43		01:47	03:15	03:52	04:49	06:32	02:16	08:50	0·17	17 33·2 –23 18	14 05·5 –16 56
16–17 Tu	19:09	20:07	20:43		02:18	03:16	03:52	04:50	06:32	02:21	08:54	0·11	17 37·7 –23 20	14 52·2 –21 12
17–18 We	19:10	20:07	20:44		02:55	03:16	03:53	04:50	06:31	02:26	08:59	0·06	17 42·1 –23 22	15 41·3 –24 37
18–19 Th	19:11	20:08	20:45			03:16	03:53	04:50	06:31	02:30	09:03	0·02	17 46·5 –23 24	16 32·9 –26 59
19–20 Fr	19:11	20:08	20:45			03:17	03:54	04:51	06:31	02:35	09:07	0·00	17 51·0 –23 25	17 26·4 –28 08
20–21 Sa	19:12	20:09	20:46			03:17	03:54	04:51	06:31	02:39	09:12	0·00	17 55·4 –23 26	18 20·9 –27 58
21–22 Su	19:12	20:10	20:46			03:18	03:54	04:52	06:31	02:44	09:16	0·02	17 59·8 –23 26	19 15·0 –26 27
22–23 Mo	19:13	20:10	20:47	21:08		03:18	03:55	04:52	06:31	02:48	09:20	0·06	18 04·3 –23 26	20 07·9 –23 40
23–24 Tu	19:13	20:10	20:47	21:44		03:19	03:56	04:53	06:31	02:52	09:25	0·11	18 08·7 –23 25	20 58·8 –19 45
24–25 We	19:14	20:11	20:48	22:17		03:19	03:56	04:53	06:31	02:57	09:30	0·19	18 13·2 –23 24	21 47·7 –14 54
25–26 Th	19:14	20:11	20:48	22:47		03:20	03:57	04:54	06:31	03:01	09:34	0·27	18 17·6 –23 22	22 35·2 –09 20
26–27 Fr	19:14	20:12	20:48	23:15		03:21	03:57	04:55	06:32	03:05	09:39	0·37	18 22·0 –23 20	23 22·0 –03 15
27–28 Sa	19:15	20:12	20:49	23:44	—	03:21	03:58	04:55	06:32	03:10	09:43	0·48	18 26·5 –23 18	00 09·4 +03 06
28–29 Su	19:15	20:12	20:49	00:14		03:22	03:59	04:56	06:33	03:14	09:48	0·59	18 30·9 –23 15	00 58·5 +09 28
29–30 Mo	19:15	20:13	20:49	00:47		03:23	03:59	04:56	06:33	03:18	09:53	0·70	18 35·3 –23 11	01 50·8 +15 33
30–31 Tu	19:16	20:13	20:49	01:27		03:24	04:00	04:57	06:34	03:22	09:57	0·80	18 39·8 –23 07	02 47·4 +20 55
31–01 We	19:16	20:13	20:49	02:14		03:24	04:01	04:58	06:34	03:26	10:02	0·89	18 44·2 –23 03	03 48·8 +25 07