

I slightly modified Thorstensen's code to print out the time between evening twilight and morning twilight. For Okie-Tex site (site code = o) near Kenton OK I used same time zone as for Oklahoma City.

W. Romanishin- August 2013 - email: wromanishin at ou.edu - Here is stuff from John T. intro:

***** 2025 Night-time Astronomical Calendar for Anglo-Australian Tel., Siding Spring *****

By John Thorstensen, Dartmouth College

This calendar is designed to provide information useful for the planning of nighttime observations. The format should minimize confusion; each line gives the phenomena for a single (local!) night, and each line is labeled with both evening and morning (local) day and date. Note that all times given are LOCAL CIVIL (zone) times. DAYLIGHT SAVINGS time is used, with a non-USA convention.

The rise/set times printed are the times at which the center of the object is 50 arcminutes below the geometrical horizon. At the given twilight, the center of the sun is 0.0 degrees below the geometrical horizon.

The moon positions (and rise/set times) are generated by an implementation of the Low-Precision formulae in the Astronomical Almanac. The Almanac states that the error seldom exceeds 0.3 degrees. Topocentric corrections are included. Comparisons with tables for Kitt Peak in the NOAO Newsletter indicate that the rise-set times are good to +/- 2 min or so. The moon's RA, Dec, and illuminated fraction are given for local midnight, regardless of whether the moon is actually up at that time. Note that the moonrise and moonset times are not printed if they occur near mid-day.

The LST at evening and morning twilight are tabulated. This gives an accurate idea of the range of RA's accessible during the night.

The JD is given (severely rounded off) for local midnight. Again, this avoids any ambiguity.

Some credits: The sidereal time and Julian date routines were originally coded in PL/I by Steve Maker of Dartmouth College. The algorithms originated in the old American Ephemeris. The routine to convert JD back to calendar date is adapted from Numerical Recipes in C, by Press et al.

CAUTIONS: I believe that the program which generates these tables is reasonably accurate. However, it has not been exhaustively tested, so you should be sure to run 'sanity checks' on the results. Also, in view of the approximations used, the results should not be used when high precision is needed. Extension to dates far from the present (1990) should be done with great caution. The code has not been tested for the eastern or southern hemishpheres. Rise/set times are slightly inaccurate and rather confusing at circumpolar latitudes, where the concept of a 'night' is blurry.

The daylight savings time conventions (if used) are quite specific (to U. S., post-1986) and subject to change. I know that the code has many infelicities; if you should find actual errors, please notify
John.Thorstensen@dartmouth.edu

[This output comes from a (hopefully) portable, completely self-contained program in the c language. It is available from the author and may be used freely for scientific or educational purposes. If you use it for profit, please contact the author to arrange a (modest!) fee.
Source code is copyright John Thorstensen, 1990.]

MOON PHASES FOR 2025, at Anglo-Australian Tel., Siding Spring

Times and dates are given in local time, zone = -10 hr West.
 They are generally better than +- 2 minutes.
 Daylight savings time used.

The end of the previous year and the beginning of the next
 are included for continuity.

NEW		1ST		FULL		LAST	
Dec 31	9 28	Jan 07	10 58	Jan 14	9 28	Jan 22	7 32
Jan 29	23 37	Feb 05	19 04	Feb 13	0 54	Feb 21	4 35
Feb 28	11 47	Mar 07	3 34	Mar 14	17 56	Mar 22	22 32
Mar 29	22 00	Apr 05	13 17	Apr 13	10 24	Apr 21	11 38
Apr 28	5 33	May 04	23 53	May 13	2 58	May 20	22 01
May 27	13 04	Jun 03	13 42	Jun 11	17 46	Jun 19	5 21
Jun 25	20 34	Jul 03	5 30	Jul 11	6 39	Jul 18	10 40
Jul 25	5 12	Aug 01	22 41	Aug 09	17 57	Aug 16	15 14
Aug 23	16 07	Aug 31	16 26	Sep 08	4 11	Sep 14	20 35
Sep 22	5 55	Sep 30	9 55	Oct 07	13 49	Oct 14	4 15
Oct 21	22 26	Oct 30	3 22	Nov 06	0 20	Nov 12	16 30
Nov 20	17 48	Nov 28	18 00	Dec 05	10 15	Dec 12	7 53
Dec 20	12 44	Dec 28	6 11	Jan 03	21 04	Jan 11	2 49

Calendar for Anglo-Australian Tel., Siding Spring, west longitude (h.m.s) = - 9 56 16, latitude (d.m) = -31 16.6
 Rise/set times in Australian time (-10 hr W), for 670 m above surroundings, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 JANUARY *****

Date (eve/morn)	LMST midn	----- Sun: -----			LST twilight:		----- Moon: -----				Twi-Twi hours		
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	
Wed Jan 01/Thu Jan 02	5 42	20 16	21 50	4 25	5 59	3 31	10 08	.....	21 39	3	20 15.7	-23 23	6.6
Thu Jan 02/Fri Jan 03	5 46	20 16	21 50	4 26	6 00	3 35	10 13	.....	22 19	8	21 11.0	-19 10	6.6
Fri Jan 03/Sat Jan 04	5 50	20 16	21 50	4 27	6 01	3 39	10 18	.....	22 55	15	22 03.9	-13 52	6.6
Sat Jan 04/Sun Jan 05	5 54	20 16	21 50	4 28	6 02	3 43	10 23	.....	23 27	23	22 54.7	- 7 46	6.6
Sun Jan 05/Mon Jan 06	5 58	20 16	21 50	4 29	6 02	3 47	10 28	.....	23 57	33	23 44.3	- 1 12	6.7
Mon Jan 06/Tue Jan 07	6 02	20 16	21 49	4 30	6 03	3 51	10 33	.....	0 27	44	0 33.9	5 30	6.7
Tue Jan 07/Wed Jan 08	6 06	20 17	21 49	4 31	6 04	3 55	10 38	.....	0 59	56	1 24.8	12 01	6.7
Wed Jan 08/Thu Jan 09	6 10	20 17	21 49	4 32	6 05	3 58	10 43	.....	1 33	67	2 18.2	18 00	6.7
Thu Jan 09/Fri Jan 10	6 14	20 17	21 49	4 33	6 06	4 02	10 48	.....	2 13	77	3 14.9	23 04	6.7
Fri Jan 10/Sat Jan 11	6 17	20 16	21 49	4 34	6 06	4 06	10 53	.....	3 00	86	4 15.3	26 49	6.8
Sat Jan 11/Sun Jan 12	6 21	20 16	21 48	4 35	6 07	4 09	10 58	17 54	3 55	93	5 18.5	28 56	6.8
Sun Jan 12/Mon Jan 13	6 25	20 16	21 48	4 37	6 08	4 13	11 03	18 58	4 57	97	6 22.4	29 12	6.8
Mon Jan 13/Tue Jan 14	6 29	20 16	21 48	4 38	6 09	4 17	11 08	19 54	6 03	100	7 24.7	27 40	6.8
Tue Jan 14/Wed Jan 15	6 33	20 16	21 47	4 39	6 10	4 20	11 13	20 41	.....	99	8 23.3	24 35	6.9
Wed Jan 15/Thu Jan 16	6 37	20 16	21 47	4 40	6 11	4 24	11 18	21 21	.....	97	9 17.4	20 18	6.9
Thu Jan 16/Fri Jan 17	6 41	20 16	21 46	4 41	6 12	4 27	11 23	21 54	.....	92	10 07.1	15 13	6.9
Fri Jan 17/Sat Jan 18	6 45	20 15	21 46	4 42	6 13	4 30	11 28	22 23	.....	86	10 53.3	9 40	6.9
Sat Jan 18/Sun Jan 19	6 49	20 15	21 45	4 44	6 14	4 34	11 33	22 49	.....	79	11 37.1	3 54	7.0
Sun Jan 19/Mon Jan 20	6 53	20 15	21 45	4 45	6 15	4 37	11 38	23 14	.....	71	12 19.5	- 1 52	7.0
Mon Jan 20/Tue Jan 21	6 57	20 14	21 44	4 46	6 15	4 41	11 44	23 38	.....	62	13 01.8	- 7 28	7.0
Tue Jan 21/Wed Jan 22	7 01	20 14	21 43	4 47	6 16	4 44	11 49	0 04	.....	52	13 44.8	-12 44	7.1
Wed Jan 22/Thu Jan 23	7 05	20 14	21 43	4 48	6 17	4 47	11 54	0 33	.....	43	14 29.7	-17 32	7.1
Thu Jan 23/Fri Jan 24	7 09	20 13	21 42	4 50	6 18	4 50	11 59	1 06	.....	34	15 17.4	-21 40	7.1
Fri Jan 24/Sat Jan 25	7 13	20 13	21 41	4 51	6 19	4 54	12 04	1 44	.....	25	16 08.2	-24 55	7.2
Sat Jan 25/Sun Jan 26	7 17	20 12	21 41	4 52	6 20	4 57	12 09	2 30	.....	17	17 02.5	-27 01	7.2
Sun Jan 26/Mon Jan 27	7 21	20 12	21 40	4 53	6 21	5 00	12 15	3 24	17 45	10	17 59.5	-27 46	7.2
Mon Jan 27/Tue Jan 28	7 25	20 11	21 39	4 54	6 22	5 03	12 20	4 26	18 40	5	18 58.1	-26 57	7.3
Tue Jan 28/Wed Jan 29	7 28	20 11	21 38	4 56	6 23	5 06	12 25	5 33	19 31	1	19 56.5	-24 33	7.3
Wed Jan 29/Thu Jan 30	7 32	20 10	21 37	4 57	6 24	5 09	12 30	.....	20 15	0	20 53.3	-20 39	7.3
Thu Jan 30/Fri Jan 31	7 36	20 10	21 36	4 58	6 25	5 12	12 35	.....	20 53	1	21 47.9	-15 30	7.4
Fri Jan 31/Sat Feb 01	7 40	20 09	21 35	4 59	6 26	5 15	12 40	.....	21 27	5	22 40.4	- 9 26	7.4

***** 2025 FEBRUARY *****

Date (eve/morn)	LMST midn	----- Sun: -----			LST twilight:		----- Moon: -----				Twi-Twi hours		
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	
Sat Feb 01/Sun Feb 02	7 44	20 08	21 34	5 01	6 27	5 18	12 46	.....	21 59	11	23 31.2	- 2 48	7.4
Sun Feb 02/Mon Feb 03	7 48	20 08	21 33	5 02	6 28	5 21	12 51	.....	22 29	20	0 21.5	4 02	7.5
Mon Feb 03/Tue Feb 04	7 52	20 07	21 32	5 03	6 28	5 24	12 56	.....	23 01	30	1 12.5	10 42	7.5
Tue Feb 04/Wed Feb 05	7 56	20 06	21 31	5 04	6 29	5 27	13 01	.....	23 34	40	2 05.2	16 51	7.5
Wed Feb 05/Thu Feb 06	8 00	20 06	21 30	5 05	6 30	5 30	13 06	.....	0 13	52	3 00.7	22 06	7.6
Thu Feb 06/Fri Feb 07	8 04	20 05	21 29	5 07	6 31	5 33	13 11	.....	0 57	63	3 59.3	26 08	7.6
Fri Feb 07/Sat Feb 08	8 08	20 04	21 28	5 08	6 32	5 36	13 16	.....	1 48	73	5 00.5	28 37	7.7
Sat Feb 08/Sun Feb 09	8 12	20 03	21 27	5 09	6 33	5 39	13 22	.....	2 46	82	6 03.0	29 22	7.7
Sun Feb 09/Mon Feb 10	8 16	20 02	21 26	5 10	6 34	5 41	13 27	17 47	3 50	90	7 04.5	28 22	7.7
Mon Feb 10/Tue Feb 11	8 20	20 01	21 25	5 11	6 35	5 44	13 32	18 36	4 55	95	8 03.2	25 47	7.8
Tue Feb 11/Wed Feb 12	8 24	20 01	21 24	5 12	6 36	5 47	13 37	19 17	5 58	99	8 58.1	21 54	7.8
Wed Feb 12/Thu Feb 13	8 28	20 00	21 23	5 13	6 37	5 50	13 42	19 52	.....	100	9 49.0	17 04	7.8
Thu Feb 13/Fri Feb 14	8 32	19 59	21 22	5 15	6 37	5 53	13 47	20 23	.....	99	10 36.4	11 37	7.9
Fri Feb 14/Sat Feb 15	8 35	19 58	21 20	5 16	6 38	5 55	13 52	20 50	.....	96	11 21.1	5 50	7.9
Sat Feb 15/Sun Feb 16	8 39	19 57	21 19	5 17	6 39	5 58	13 57	21 15	.....	92	12 04.3	- 0 02	8.0
Sun Feb 16/Mon Feb 17	8 43	19 56	21 18	5 18	6 40	6 01	14 02	21 40	.....	85	12 46.9	- 5 48	8.0
Mon Feb 17/Tue Feb 18	8 47	19 55	21 17	5 19	6 41	6 04	14 07	22 05	.....	78	13 29.9	-11 16	8.0
Tue Feb 18/Wed Feb 19	8 51	19 54	21 16	5 20	6 42	6 06	14 12	22 32	.....	70	14 14.4	-16 17	8.1
Wed Feb 19/Thu Feb 20	8 55	19 53	21 14	5 21	6 42	6 09	14 17	23 03	.....	61	15 01.0	-20 40	8.1
Thu Feb 20/Fri Feb 21	8 59	19 52	21 13	5 22	6 43	6 12	14 22	23 39	.....	51	15 50.5	-24 12	8.2
Fri Feb 21/Sat Feb 22	9 03	19 51	21 12	5 23	6 44	6 14	14 27	0 20	.....	42	16 43.1	-26 42	8.2
Sat Feb 22/Sun Feb 23	9 07	19 50	21 10	5 24	6 45	6 17	14 32	1 10	.....	32	17 38.6	-27 55	8.2
Sun Feb 23/Mon Feb 24	9 11	19 49	21 09	5 25	6 46	6 20	14 37	2 07	.....	23	18 36.0	-27 40	8.3
Mon Feb 24/Tue Feb 25	9 15	19 48	21 08	5 26	6 46	6 22	14 42	3 11	17 19	15	19 34.0	-25 52	8.3
Tue Feb 25/Wed Feb 26	9 19	19 47	21 07	5 27	6 47	6 25	14 47	4 19	18 06	8	20 31.2	-22 31	8.3
Wed Feb 26/Thu Feb 27	9 23	19 45	21 05	5 28	6 48	6 28	14 52	5 29	18 46	3	21 26.8	-17 48	8.4
Thu Feb 27/Fri Feb 28	9 27	19 44	21 04	5 29	6 49	6 30	14 57	6 38	19 23	0	22 20.5	-11 57	8.4
Fri Feb 28/Sat Mar 01	9 31	19 43	21 03	5 30	6 50	6 33	15 02	.....	19 56	0	23 12.8	- 5 21	8.5

Calendar for Anglo-Australian Tel., Siding Spring, west longitude (h.m.s) = - 9 56 16, latitude (d.m) = -31 16.6
 Rise/set times in Australian time (-10 hr W), for 670 m above surroundings, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 MARCH *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----					Twi-Twi hours
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	
Sat Mar 01/Sun Mar 02	9 35	19 42	21 01	5 31	6 50	6 35	15 07	.....	20 28	3	0 04.3	1 39	8.5
Sun Mar 02/Mon Mar 03	9 39	19 41	21 00	5 32	6 51	6 38	15 11	.....	20 59	9	0 56.3	8 38	8.5
Mon Mar 03/Tue Mar 04	9 42	19 40	20 59	5 33	6 52	6 41	15 16	.....	21 33	16	1 49.9	15 09	8.6
Tue Mar 04/Wed Mar 05	9 46	19 39	20 57	5 34	6 53	6 43	15 21	.....	22 11	26	2 45.8	20 49	8.6
Wed Mar 05/Thu Mar 06	9 50	19 37	20 56	5 35	6 53	6 46	15 26	.....	22 54	37	3 44.5	25 16	8.6
Thu Mar 06/Fri Mar 07	9 54	19 36	20 55	5 36	6 54	6 49	15 31	.....	23 44	48	4 45.6	28 09	8.7
Fri Mar 07/Sat Mar 08	9 58	19 35	20 53	5 36	6 55	6 51	15 36	.....	0 41	59	5 47.7	29 20	8.7
Sat Mar 08/Sun Mar 09	10 02	19 34	20 52	5 37	6 55	6 54	15 40	.....	1 42	69	6 49.1	28 45	8.8
Sun Mar 09/Mon Mar 10	10 06	19 33	20 51	5 38	6 56	6 56	15 45	.....	2 46	78	7 47.8	26 34	8.8
Mon Mar 10/Tue Mar 11	10 10	19 31	20 49	5 39	6 57	6 59	15 50	17 17	3 50	86	8 42.8	23 02	8.8
Tue Mar 11/Wed Mar 12	10 14	19 30	20 48	5 40	6 58	7 01	15 55	17 54	4 51	93	9 33.9	18 30	8.9
Wed Mar 12/Thu Mar 13	10 18	19 29	20 47	5 41	6 58	7 04	15 59	18 25	5 49	97	10 21.7	13 15	8.9
Thu Mar 13/Fri Mar 14	10 22	19 28	20 45	5 41	6 59	7 07	16 04	18 52	6 46	99	11 06.7	7 35	8.9
Fri Mar 14/Sat Mar 15	10 26	19 26	20 44	5 42	7 00	7 09	16 09	19 18	.....	100	11 50.2	1 43	9.0
Sat Mar 15/Sun Mar 16	10 30	19 25	20 43	5 43	7 00	7 12	16 14	19 43	.....	99	12 32.9	- 4 08	9.0
Sun Mar 16/Mon Mar 17	10 34	19 24	20 41	5 44	7 01	7 14	16 18	20 08	.....	95	13 16.0	- 9 45	9.0
Mon Mar 17/Tue Mar 18	10 38	19 23	20 40	5 44	7 02	7 17	16 23	20 34	.....	90	14 00.1	-14 58	9.1
Tue Mar 18/Wed Mar 19	10 42	19 21	20 39	5 45	7 02	7 20	16 28	21 03	.....	84	14 46.2	-19 35	9.1
Wed Mar 19/Thu Mar 20	10 46	19 20	20 37	5 46	7 03	7 22	16 32	21 37	.....	77	15 34.9	-23 25	9.1
Thu Mar 20/Fri Mar 21	10 50	19 19	20 36	5 47	7 04	7 25	16 37	22 15	.....	68	16 26.4	-26 15	9.2
Fri Mar 21/Sat Mar 22	10 53	19 18	20 35	5 47	7 04	7 27	16 42	23 01	.....	59	17 20.5	-27 53	9.2
Sat Mar 22/Sun Mar 23	10 57	19 16	20 33	5 48	7 05	7 30	16 46	23 54	.....	49	18 16.5	-28 07	9.2
Sun Mar 23/Mon Mar 24	11 01	19 15	20 32	5 49	7 06	7 33	16 51	0 53	.....	39	19 13.3	-26 53	9.3
Mon Mar 24/Tue Mar 25	11 05	19 14	20 31	5 50	7 06	7 35	16 56	1 58	.....	29	20 09.7	-24 10	9.3
Tue Mar 25/Wed Mar 26	11 09	19 13	20 29	5 50	7 07	7 38	17 00	3 05	16 39	19	21 04.9	-20 02	9.3
Wed Mar 26/Thu Mar 27	11 13	19 11	20 28	5 51	7 08	7 41	17 05	4 14	17 16	11	21 58.5	-14 42	9.4
Thu Mar 27/Fri Mar 28	11 17	19 10	20 27	5 52	7 08	7 43	17 10	5 23	17 50	5	22 50.8	- 8 25	9.4
Fri Mar 28/Sat Mar 29	11 21	19 09	20 25	5 52	7 09	7 46	17 14	6 32	18 23	1	23 42.6	- 1 31	9.4
Sat Mar 29/Sun Mar 30	11 25	19 08	20 24	5 53	7 10	7 49	17 19	.....	18 55	0	0 34.9	5 36	9.5
Sun Mar 30/Mon Mar 31	11 29	19 06	20 23	5 54	7 10	7 51	17 24	.....	19 28	2	1 28.8	12 30	9.5
Mon Mar 31/Tue Apr 01	11 33	19 05	20 22	5 54	7 11	7 54	17 28	.....	20 05	6	2 25.2	18 42	9.5

***** 2025 APRIL *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----					Twi-Twi hours
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	
Tue Apr 01/Wed Apr 02	11 37	19 04	20 20	5 55	7 12	7 57	17 33	.....	20 47	13	3 24.6	23 45	9.6
Wed Apr 02/Thu Apr 03	11 41	19 03	20 19	5 56	7 12	7 59	17 37	.....	21 36	22	4 26.8	27 16	9.6
Thu Apr 03/Fri Apr 04	11 45	19 02	20 18	5 56	7 13	8 02	17 42	.....	22 32	33	5 30.3	28 59	9.6
Fri Apr 04/Sat Apr 05	11 49	19 00	20 17	5 57	7 13	8 05	17 46	.....	23 34	43	6 33.0	28 52	9.7
Sat Apr 05/Sun Apr 06*	12 53	18 59	20 16	4 57	6 14	8 08	17 51	.....	0 39	54	7 35.2	26 52	9.7
Sun Apr 06/Mon Apr 07	12 57	17 58	19 14	4 58	6 15	8 10	17 56	.....	0 43	65	8 30.9	23 37	9.7
Mon Apr 07/Tue Apr 08	13 01	17 57	19 13	4 59	6 15	8 13	18 00	.....	1 45	74	9 22.4	19 19	9.8
Tue Apr 08/Wed Apr 09	13 05	17 55	19 12	4 59	6 16	8 16	18 05	.....	2 44	82	10 10.3	14 16	9.8
Wed Apr 09/Thu Apr 10	13 09	17 54	19 11	5 00	6 17	8 19	18 09	.....	3 40	89	10 55.4	8 44	9.8
Thu Apr 10/Fri Apr 11	13 12	17 53	19 10	5 01	6 17	8 21	18 14	16 22	4 35	95	11 38.7	2 58	9.8
Fri Apr 11/Sat Apr 12	13 16	17 52	19 09	5 01	6 18	8 24	18 18	16 47	5 29	98	12 21.3	- 2 51	9.9
Sat Apr 12/Sun Apr 13	13 20	17 51	19 08	5 02	6 19	8 27	18 23	17 12	6 23	100	13 04.1	- 8 32	9.9
Sun Apr 13/Mon Apr 14	13 24	17 50	19 06	5 02	6 19	8 30	18 27	17 37	7 19	100	13 48.1	-13 52	9.9
Mon Apr 14/Tue Apr 15	13 28	17 48	19 05	5 03	6 20	8 33	18 32	18 06	.....	98	14 33.9	-18 41	10.0
Tue Apr 15/Wed Apr 16	13 32	17 47	19 04	5 04	6 21	8 36	18 37	18 37	.....	94	15 22.3	-22 45	10.0
Wed Apr 16/Thu Apr 17	13 36	17 46	19 03	5 04	6 21	8 38	18 41	19 14	.....	89	16 13.5	-25 52	10.0
Thu Apr 17/Fri Apr 18	13 40	17 45	19 02	5 05	6 22	8 41	18 46	19 57	.....	82	17 07.2	-27 48	10.0
Fri Apr 18/Sat Apr 19	13 44	17 44	19 01	5 05	6 22	8 44	18 50	20 47	.....	74	18 02.8	-28 23	10.1
Sat Apr 19/Sun Apr 20	13 48	17 43	19 00	5 06	6 23	8 47	18 55	21 43	.....	64	18 59.1	-27 31	10.1
Sun Apr 20/Mon Apr 21	13 52	17 42	18 59	5 06	6 24	8 50	18 59	22 44	.....	54	19 54.9	-25 12	10.1
Mon Apr 21/Tue Apr 22	13 56	17 41	18 58	5 07	6 24	8 53	19 04	23 49	.....	44	20 49.4	-21 32	10.1
Tue Apr 22/Wed Apr 23	14 00	17 40	18 57	5 08	6 25	8 56	19 08	0 55	.....	33	21 42.2	-16 40	10.2
Wed Apr 23/Thu Apr 24	14 04	17 39	18 56	5 08	6 26	8 59	19 13	2 01	.....	23	22 33.6	-10 49	10.2
Thu Apr 24/Fri Apr 25	14 08	17 38	18 55	5 09	6 26	9 02	19 17	3 08	.....	14	23 24.4	- 4 15	10.2
Fri Apr 25/Sat Apr 26	14 12	17 37	18 54	5 09	6 27	9 05	19 22	4 16	.....	7	0 15.6	2 42	10.2
Sat Apr 26/Sun Apr 27	14 16	17 36	18 53	5 10	6 28	9 08	19 26	5 27	16 22	2	1 08.4	9 39	10.3
Sun Apr 27/Mon Apr 28	14 20	17 35	18 53	5 10	6 28	9 11	19 31	6 41	16 57	0	2 03.9	16 10	10.3
Mon Apr 28/Tue Apr 29	14 23	17 34	18 52	5 11	6 29	9 14	19 35	7 56	17 36	1	3 02.9	21 44	10.3
Tue Apr 29/Wed Apr 30	14 27	17 33	18 51	5 12	6 30	9 17	19 40	.....	18 23	5	4 05.3	25 53	10.3
Wed Apr 30/Thu May 01	14 31	17 32	18 50	5 12	6 30	9 21	19 44	.....	19 18	11	5 10.0	28 16	10.4

Calendar for Anglo-Australian Tel., Siding Spring, west longitude (h.m.s) = - 9 56 16, latitude (d.m) = -31 16.6
 Rise/set times in Australian time (-10 hr W), for 670 m above surroundings, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 MAY *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----				Twilight	
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Thu May 01/Fri May 02	14 35	17 31	18 49	5 13	6 31	9 24	19 49	.....	20 20	19	6 14.7	28 42	10.4
Fri May 02/Sat May 03	14 39	17 30	18 48	5 13	6 32	9 27	19 53	.....	21 26	29	7 17.0	27 18	10.4
Sat May 03/Sun May 04	14 43	17 29	18 48	5 14	6 32	9 30	19 58	.....	22 33	39	8 15.0	24 22	10.4
Sun May 04/Mon May 05	14 47	17 28	18 47	5 14	6 33	9 33	20 02	.....	23 37	49	9 08.4	20 17	10.5
Mon May 05/Tue May 06	14 51	17 28	18 46	5 15	6 34	9 36	20 07	.....	0 38	59	9 57.5	15 23	10.5
Tue May 06/Wed May 07	14 55	17 27	18 46	5 15	6 34	9 40	20 11	.....	1 35	69	10 43.3	9 58	10.5
Wed May 07/Thu May 08	14 59	17 26	18 45	5 16	6 35	9 43	20 16	.....	2 30	78	11 26.9	4 17	10.5
Thu May 08/Fri May 09	15 03	17 25	18 44	5 17	6 36	9 46	20 20	.....	3 24	85	12 09.4	- 1 29	10.5
Fri May 09/Sat May 10	15 07	17 24	18 44	5 17	6 36	9 49	20 25	.....	4 18	91	12 51.9	- 7 10	10.6
Sat May 10/Sun May 11	15 11	17 24	18 43	5 18	6 37	9 53	20 29	.....	5 13	96	13 35.3	-12 34	10.6
Sun May 11/Mon May 12	15 15	17 23	18 42	5 18	6 38	9 56	20 34	16 09	6 09	99	14 20.6	-17 31	10.6
Mon May 12/Tue May 13	15 19	17 22	18 42	5 19	6 38	9 59	20 38	16 39	7 07	100	15 08.4	-21 48	10.6
Tue May 13/Wed May 14	15 23	17 22	18 41	5 19	6 39	10 03	20 43	17 15	8 06	99	15 59.1	-25 11	10.6
Wed May 14/Thu May 15	15 27	17 21	18 41	5 20	6 40	10 06	20 47	17 56	.....	97	16 52.6	-27 26	10.7
Thu May 15/Fri May 16	15 30	17 20	18 40	5 20	6 40	10 10	20 52	18 44	.....	92	17 48.2	-28 21	10.7
Fri May 16/Sat May 17	15 34	17 20	18 40	5 21	6 41	10 13	20 56	19 38	.....	86	18 44.6	-27 51	10.7
Sat May 17/Sun May 18	15 38	17 19	18 39	5 21	6 42	10 17	21 01	20 37	.....	78	19 40.5	-25 53	10.7
Sun May 18/Mon May 19	15 42	17 19	18 39	5 22	6 42	10 20	21 05	21 40	.....	69	20 34.9	-22 34	10.7
Mon May 19/Tue May 20	15 46	17 18	18 38	5 22	6 43	10 24	21 10	22 44	.....	59	21 27.4	-18 05	10.7
Tue May 20/Wed May 21	15 50	17 18	18 38	5 23	6 43	10 27	21 14	23 48	.....	48	22 18.0	-12 37	10.8
Wed May 21/Thu May 22	15 54	17 17	18 37	5 23	6 44	10 31	21 19	0 52	.....	37	23 07.6	- 6 25	10.8
Thu May 22/Fri May 23	15 58	17 17	18 37	5 24	6 45	10 34	21 23	1 57	.....	27	23 57.2	0 13	10.8
Fri May 23/Sat May 24	16 02	17 16	18 37	5 25	6 45	10 38	21 27	3 05	.....	17	0 47.9	7 01	10.8
Sat May 24/Sun May 25	16 06	17 16	18 36	5 25	6 46	10 41	21 32	4 15	.....	9	1 41.1	13 34	10.8
Sun May 25/Mon May 26	16 10	17 15	18 36	5 26	6 46	10 45	21 36	5 28	.....	4	2 37.9	19 28	10.8
Mon May 26/Tue May 27	16 14	17 15	18 36	5 26	6 47	10 49	21 41	6 44	16 10	1	3 38.7	24 11	10.8
Tue May 27/Wed May 28	16 18	17 15	18 36	5 26	6 48	10 52	21 45	7 58	17 00	0	4 42.9	27 18	10.8
Wed May 28/Thu May 29	16 22	17 14	18 35	5 27	6 48	10 56	21 50	.....	18 00	3	5 48.7	28 31	10.9
Thu May 29/Fri May 30	16 26	17 14	18 35	5 27	6 49	11 00	21 54	.....	19 06	8	6 53.3	27 46	10.9
Fri May 30/Sat May 31	16 30	17 14	18 35	5 28	6 49	11 04	21 58	.....	20 15	16	7 54.4	25 17	10.9
Sat May 31/Sun Jun 01	16 34	17 13	18 35	5 28	6 50	11 07	22 03	.....	21 23	24	8 50.6	21 27	10.9

***** 2025 JUNE *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----				Twilight	
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Sun Jun 01/Mon Jun 02	16 37	17 13	18 35	5 29	6 50	11 11	22 07	.....	22 27	34	9 42.0	16 41	10.9
Mon Jun 02/Tue Jun 03	16 41	17 13	18 34	5 29	6 51	11 15	22 12	.....	23 27	44	10 29.4	11 20	10.9
Tue Jun 03/Wed Jun 04	16 45	17 13	18 34	5 30	6 51	11 19	22 16	.....	0 23	53	11 13.9	5 40	10.9
Wed Jun 04/Thu Jun 05	16 49	17 13	18 34	5 30	6 52	11 23	22 20	.....	1 18	63	11 56.8	- 0 06	10.9
Thu Jun 05/Fri Jun 06	16 53	17 12	18 34	5 31	6 52	11 27	22 25	.....	2 12	72	12 39.2	- 5 48	10.9
Fri Jun 06/Sat Jun 07	16 57	17 12	18 34	5 31	6 53	11 30	22 29	.....	3 07	80	13 22.2	-11 15	10.9
Sat Jun 07/Sun Jun 08	17 01	17 12	18 34	5 31	6 53	11 34	22 33	.....	4 02	87	14 06.8	-16 18	11.0
Sun Jun 08/Mon Jun 09	17 05	17 12	18 34	5 32	6 54	11 38	22 38	.....	5 00	93	14 53.8	-20 45	11.0
Mon Jun 09/Tue Jun 10	17 09	17 12	18 34	5 32	6 54	11 42	22 42	.....	5 58	97	15 43.8	-24 23	11.0
Tue Jun 10/Wed Jun 11	17 13	17 12	18 34	5 32	6 55	11 46	22 46	15 54	6 57	99	16 36.9	-26 57	11.0
Wed Jun 11/Thu Jun 12	17 17	17 12	18 34	5 33	6 55	11 50	22 51	16 40	7 53	100	17 32.5	-28 14	11.0
Thu Jun 12/Fri Jun 13	17 21	17 12	18 34	5 33	6 55	11 54	22 55	17 33	.....	98	18 29.4	-28 05	11.0
Fri Jun 13/Sat Jun 14	17 25	17 12	18 34	5 33	6 56	11 58	22 59	18 31	.....	95	19 26.2	-26 26	11.0
Sat Jun 14/Sun Jun 15	17 29	17 12	18 34	5 34	6 56	12 02	23 03	19 34	.....	89	20 21.5	-23 23	11.0
Sun Jun 15/Mon Jun 16	17 33	17 12	18 35	5 34	6 56	12 06	23 08	20 38	.....	82	21 14.7	-19 06	11.0
Mon Jun 16/Tue Jun 17	17 37	17 12	18 35	5 34	6 57	12 10	23 12	21 41	.....	73	22 05.7	-13 50	11.0
Tue Jun 17/Wed Jun 18	17 41	17 13	18 35	5 35	6 57	12 15	23 16	22 44	.....	63	22 55.0	- 7 50	11.0
Wed Jun 18/Thu Jun 19	17 45	17 13	18 35	5 35	6 57	12 19	23 20	23 47	.....	52	23 43.7	- 1 23	11.0
Thu Jun 19/Fri Jun 20	17 48	17 13	18 35	5 35	6 58	12 23	23 25	0 52	.....	40	0 32.9	5 14	11.0
Fri Jun 20/Sat Jun 21	17 52	17 13	18 35	5 35	6 58	12 27	23 29	1 58	.....	29	1 23.9	11 43	11.0
Sat Jun 21/Sun Jun 22	17 56	17 13	18 36	5 36	6 58	12 31	23 33	3 08	.....	20	2 18.0	17 40	11.0
Sun Jun 22/Mon Jun 23	18 00	17 13	18 36	5 36	6 58	12 35	23 37	4 21	.....	11	3 16.0	22 42	11.0
Mon Jun 23/Tue Jun 24	18 04	17 14	18 36	5 36	6 58	12 39	23 41	5 34	.....	5	4 18.0	26 20	11.0
Tue Jun 24/Wed Jun 25	18 08	17 14	18 36	5 36	6 59	12 44	23 45	6 44	15 41	1	5 22.8	28 14	11.0
Wed Jun 25/Thu Jun 26	18 12	17 14	18 37	5 36	6 59	12 48	23 49	7 47	16 45	0	6 27.9	28 11	11.0
Thu Jun 26/Fri Jun 27	18 16	17 15	18 37	5 36	6 59	12 52	23 53	.....	17 53	2	7 30.8	26 18	11.0
Fri Jun 27/Sat Jun 28	18 20	17 15	18 37	5 37	6 59	12 56	23 57	.....	19 03	6	8 29.5	22 52	11.0
Sat Jun 28/Sun Jun 29	18 24	17 15	18 38	5 37	6 59	13 01	0 02	.....	20 10	12	9 23.3	18 18	11.0
Sun Jun 29/Mon Jun 30	18 28	17 16	18 38	5 37	6 59	13 05	0 06	.....	21 13	19	10 12.8	13 01	11.0
Mon Jun 30/Tue Jul 01	18 32	17 16	18 38	5 37	6 59	13 09	0 10	.....	22 12	28	10 58.8	7 20	11.0

Calendar for Anglo-Australian Tel., Siding Spring, west longitude (h.m.s) = - 9 56 16, latitude (d.m) = -31 16.6
 Rise/set times in Australian time (-10 hr W), for 670 m above surroundings, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 JULY *****

Date (eve/morn)		LMST	----- Sun: -----				LST twilight:		----- Moon: -----				Twilight	
		midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Tue Jul 01/Wed Jul 02		18 36	17 16	18 39	5 37	6 59	13 13	0 14	.....	23 09	37	11 42.6	1 31	11.0
Wed Jul 02/Thu Jul 03		18 40	17 17	18 39	5 37	6 59	13 18	0 17	.....	0 04	47	12 25.4	- 4 15	11.0
Thu Jul 03/Fri Jul 04		18 44	17 17	18 39	5 37	6 59	13 22	0 21	.....	0 59	57	13 08.2	- 9 48	11.0
Fri Jul 04/Sat Jul 05		18 48	17 18	18 40	5 37	6 59	13 26	0 25	.....	1 54	66	13 52.2	-14 58	11.0
Sat Jul 05/Sun Jul 06		18 52	17 18	18 40	5 37	6 59	13 31	0 29	.....	2 51	75	14 38.3	-19 35	10.9
Sun Jul 06/Mon Jul 07		18 55	17 18	18 40	5 37	6 59	13 35	0 33	.....	3 49	82	15 27.1	-23 27	10.9
Mon Jul 07/Tue Jul 08		18 59	17 19	18 41	5 37	6 58	13 39	0 37	.....	4 48	89	16 19.2	-26 21	10.9
Tue Jul 08/Wed Jul 09		19 03	17 19	18 41	5 37	6 58	13 44	0 41	.....	5 45	94	17 14.1	-28 01	10.9
Wed Jul 09/Thu Jul 10		19 07	17 20	18 42	5 36	6 58	13 48	0 45	.....	6 39	98	18 11.1	-28 17	10.9
Thu Jul 10/Fri Jul 11		19 11	17 20	18 42	5 36	6 58	13 52	0 48	16 22	7 28	100	19 08.7	-27 02	10.9
Fri Jul 11/Sat Jul 12		19 15	17 21	18 42	5 36	6 58	13 57	0 52	17 25	8 11	99	20 05.4	-24 18	10.9
Sat Jul 12/Sun Jul 13		19 19	17 21	18 43	5 36	6 57	14 01	0 56	18 29	.....	97	21 00.1	-20 14	10.9
Sun Jul 13/Mon Jul 14		19 23	17 22	18 43	5 36	6 57	14 06	1 00	19 34	.....	92	21 52.5	-15 05	10.9
Mon Jul 14/Tue Jul 15		19 27	17 23	18 44	5 35	6 57	14 10	1 03	20 38	.....	85	22 42.8	- 9 07	10.9
Tue Jul 15/Wed Jul 16		19 31	17 23	18 44	5 35	6 56	14 14	1 07	21 41	.....	76	23 32.0	- 2 40	10.8
Wed Jul 16/Thu Jul 17		19 35	17 24	18 45	5 35	6 56	14 19	1 11	22 45	.....	65	0 21.0	3 58	10.8
Thu Jul 17/Fri Jul 18		19 39	17 24	18 45	5 35	6 55	14 23	1 14	23 50	.....	54	1 11.2	10 28	10.8
Fri Jul 18/Sat Jul 19		19 43	17 25	18 46	5 34	6 55	14 28	1 18	0 57	.....	43	2 03.8	16 30	10.8
Sat Jul 19/Sun Jul 20		19 47	17 25	18 46	5 34	6 55	14 32	1 22	2 07	.....	32	2 59.7	21 41	10.8
Sun Jul 20/Mon Jul 21		19 51	17 26	18 47	5 34	6 54	14 36	1 25	3 18	.....	22	3 59.3	25 38	10.8
Mon Jul 21/Tue Jul 22		19 55	17 26	18 47	5 33	6 54	14 41	1 29	4 28	.....	13	5 02.0	28 00	10.8
Tue Jul 22/Wed Jul 23		19 59	17 27	18 47	5 33	6 53	14 45	1 32	5 32	.....	6	6 06.0	28 32	10.8
Wed Jul 23/Thu Jul 24		20 03	17 28	18 48	5 32	6 53	14 50	1 36	6 28	.....	2	7 09.0	27 14	10.7
Thu Jul 24/Fri Jul 25		20 06	17 28	18 48	5 32	6 52	14 54	1 39	7 15	16 43	0	8 08.7	24 17	10.7
Fri Jul 25/Sat Jul 26		20 10	17 29	18 49	5 31	6 51	14 58	1 43	7 53	17 51	1	9 04.1	20 04	10.7
Sat Jul 26/Sun Jul 27		20 14	17 29	18 49	5 31	6 51	15 03	1 46	.....	18 56	4	9 55.2	14 57	10.7
Sun Jul 27/Mon Jul 28		20 18	17 30	18 50	5 30	6 50	15 07	1 50	.....	19 58	8	10 42.6	9 18	10.7
Mon Jul 28/Tue Jul 29		20 22	17 31	18 50	5 30	6 50	15 12	1 53	.....	20 57	15	11 27.4	3 26	10.7
Tue Jul 29/Wed Jul 30		20 26	17 31	18 51	5 29	6 49	15 16	1 56	.....	21 53	23	12 10.8	- 2 26	10.6
Wed Jul 30/Thu Jul 31		20 30	17 32	18 51	5 29	6 48	15 21	2 00	.....	22 49	31	12 53.7	- 8 07	10.6
Thu Jul 31/Fri Aug 01		20 34	17 32	18 52	5 28	6 47	15 25	2 03	.....	23 44	40	13 37.3	-13 26	10.6

***** 2025 AUGUST *****

Date (eve/morn)		LMST	----- Sun: -----				LST twilight:		----- Moon: -----				Twilight	
		midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Fri Aug 01/Sat Aug 02		20 38	17 33	18 52	5 27	6 47	15 30	2 06	.....	0 41	50	14 22.4	-18 14	10.6
Sat Aug 02/Sun Aug 03		20 42	17 34	18 53	5 27	6 46	15 34	2 10	.....	1 38	59	15 10.0	-22 20	10.6
Sun Aug 03/Mon Aug 04		20 46	17 34	18 53	5 26	6 45	15 38	2 13	.....	2 37	68	16 00.6	-25 33	10.5
Mon Aug 04/Tue Aug 05		20 50	17 35	18 54	5 25	6 44	15 43	2 16	.....	3 35	77	16 54.1	-27 38	10.5
Tue Aug 05/Wed Aug 06		20 54	17 36	18 54	5 25	6 44	15 47	2 19	.....	4 30	85	17 50.2	-28 23	10.5
Wed Aug 06/Thu Aug 07		20 58	17 36	18 55	5 24	6 43	15 52	2 23	.....	5 21	91	18 47.6	-27 39	10.5
Thu Aug 07/Fri Aug 08		21 02	17 37	18 55	5 23	6 42	15 56	2 26	.....	6 06	96	19 44.9	-25 24	10.5
Fri Aug 08/Sat Aug 09		21 06	17 37	18 56	5 22	6 41	16 01	2 29	16 15	6 46	99	20 40.9	-21 42	10.4
Sat Aug 09/Sun Aug 10		21 10	17 38	18 56	5 22	6 40	16 05	2 32	17 21	7 21	100	21 34.9	-16 46	10.4
Sun Aug 10/Mon Aug 11		21 13	17 39	18 57	5 21	6 39	16 10	2 35	18 27	7 53	98	22 27.0	-10 52	10.4
Mon Aug 11/Tue Aug 12		21 17	17 39	18 57	5 20	6 38	16 14	2 38	19 32	.....	94	23 17.6	- 4 20	10.4
Tue Aug 12/Wed Aug 13		21 21	17 40	18 58	5 19	6 37	16 19	2 41	20 37	.....	87	0 07.7	2 28	10.4
Wed Aug 13/Thu Aug 14		21 25	17 40	18 58	5 18	6 36	16 23	2 44	21 42	.....	78	0 58.6	9 11	10.3
Thu Aug 14/Fri Aug 15		21 29	17 41	18 59	5 17	6 35	16 27	2 48	22 49	.....	68	1 51.2	15 28	10.3
Fri Aug 15/Sat Aug 16		21 33	17 42	19 00	5 17	6 34	16 32	2 51	23 59	.....	56	2 46.6	20 54	10.3
Sat Aug 16/Sun Aug 17		21 37	17 42	19 00	5 16	6 33	16 36	2 54	1 09	.....	45	3 45.3	25 09	10.3
Sun Aug 17/Mon Aug 18		21 41	17 43	19 01	5 15	6 32	16 41	2 57	2 18	.....	34	4 46.8	27 52	10.2
Mon Aug 18/Tue Aug 19		21 45	17 43	19 01	5 14	6 31	16 45	3 00	3 23	.....	24	5 49.8	28 49	10.2
Tue Aug 19/Wed Aug 20		21 49	17 44	19 02	5 13	6 30	16 50	3 03	4 21	.....	15	6 52.1	27 58	10.2
Wed Aug 20/Thu Aug 21		21 53	17 45	19 02	5 12	6 29	16 54	3 05	5 10	.....	8	7 51.8	25 29	10.2
Thu Aug 21/Fri Aug 22		21 57	17 45	19 03	5 11	6 28	16 59	3 08	5 50	.....	3	8 47.7	21 38	10.1
Fri Aug 22/Sat Aug 23		22 01	17 46	19 03	5 10	6 27	17 03	3 11	6 25	16 42	1	9 39.4	16 47	10.1
Sat Aug 23/Sun Aug 24		22 05	17 46	19 04	5 09	6 26	17 08	3 14	6 55	17 44	0	10 27.5	11 17	10.1
Sun Aug 24/Mon Aug 25		22 09	17 47	19 04	5 08	6 25	17 12	3 17	7 22	18 44	2	11 12.9	5 27	10.1
Mon Aug 25/Tue Aug 26		22 13	17 48	19 05	5 06	6 23	17 16	3 20	7 48	19 41	5	11 56.7	- 0 28	10.0
Tue Aug 26/Wed Aug 27		22 17	17 48	19 05	5 05	6 22	17 21	3 23	.....	20 38	11	12 39.7	- 6 15	10.0
Wed Aug 27/Thu Aug 28		22 20	17 49	19 06	5 04	6 21	17 25	3 26	.....	21 33	17	13 23.0	-11 44	10.0
Thu Aug 28/Fri Aug 29		22 24	17 49	19 06	5 03	6 20	17 30	3 28	.....	22 30	25	14 07.5	-16 43	9.9
Fri Aug 29/Sat Aug 30		22 28	17 50	19 07	5 02	6 19	17 34	3 31	.....	23 27	34	14 54.1	-21 03	9.9
Sat Aug 30/Sun Aug 31		22 32	17 50	19 07	5 01	6 18	17 39	3 34	.....	0 25	43	15 43.1	-24 32	9.9
Sun Aug 31/Mon Sep 01		22 36	17 51	19 08	5 00	6 16	17 43	3 37	.....	1 23	52	16 34.9	-26 59	9.9

Calendar for Anglo-Australian Tel., Siding Spring, west longitude (h.m.s) = - 9 56 16, latitude (d.m) = -31 16.6
 Rise/set times in Australian time (-10 hr W), for 670 m above surroundings, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 SEPTEMBER *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----				Twilight	
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Mon Sep 01/Tue Sep 02	22 40	17 52	19 08	4 59	6 15	17 48	3 40	.....	2 19	62	17 29.3	-28 13	9.8
Tue Sep 02/Wed Sep 03	22 44	17 52	19 09	4 57	6 14	17 52	3 42	.....	3 11	71	18 25.4	-28 02	9.8
Wed Sep 03/Thu Sep 04	22 48	17 53	19 09	4 56	6 13	17 57	3 45	.....	3 59	80	19 22.1	-26 23	9.8
Thu Sep 04/Fri Sep 05	22 52	17 53	19 10	4 55	6 11	18 01	3 48	.....	4 41	88	20 18.1	-23 16	9.7
Fri Sep 05/Sat Sep 06	22 56	17 54	19 11	4 54	6 10	18 06	3 50	.....	5 18	94	21 12.8	-18 48	9.7
Sat Sep 06/Sun Sep 07	23 00	17 55	19 11	4 52	6 09	18 10	3 53	.....	5 51	98	22 05.9	-13 12	9.7
Sun Sep 07/Mon Sep 08	23 04	17 55	19 12	4 51	6 08	18 15	3 56	17 15	6 23	100	22 57.7	- 6 46	9.7
Mon Sep 08/Tue Sep 09	23 08	17 56	19 12	4 50	6 06	18 19	3 59	18 22	6 53	99	23 49.1	0 10	9.6
Tue Sep 09/Wed Sep 10	23 12	17 56	19 13	4 49	6 05	18 24	4 01	19 29	7 25	95	0 41.1	7 11	9.6
Wed Sep 10/Thu Sep 11	23 16	17 57	19 13	4 47	6 04	18 28	4 04	20 37	.....	89	1 34.8	13 52	9.6
Thu Sep 11/Fri Sep 12	23 20	17 57	19 14	4 46	6 03	18 33	4 07	21 48	.....	80	2 31.1	19 46	9.5
Fri Sep 12/Sat Sep 13	23 24	17 58	19 15	4 45	6 01	18 37	4 09	22 59	.....	70	3 30.5	24 28	9.5
Sat Sep 13/Sun Sep 14	23 28	17 59	19 15	4 44	6 00	18 42	4 12	0 11	.....	59	4 32.6	27 37	9.5
Sun Sep 14/Mon Sep 15	23 31	17 59	19 16	4 42	5 59	18 46	4 14	1 17	.....	48	5 36.1	28 59	9.4
Mon Sep 15/Tue Sep 16	23 35	18 00	19 16	4 41	5 57	18 51	4 17	2 17	.....	37	6 38.8	28 31	9.4
Tue Sep 16/Wed Sep 17	23 39	18 00	19 17	4 40	5 56	18 56	4 20	3 08	.....	27	7 38.9	26 22	9.4
Wed Sep 17/Thu Sep 18	23 43	18 01	19 18	4 38	5 55	19 00	4 22	3 50	.....	18	8 35.0	22 50	9.3
Thu Sep 18/Fri Sep 19	23 47	18 01	19 18	4 37	5 54	19 05	4 25	4 26	.....	10	9 27.0	18 15	9.3
Fri Sep 19/Sat Sep 20	23 51	18 02	19 19	4 36	5 52	19 09	4 27	4 57	.....	5	10 15.3	12 58	9.3
Sat Sep 20/Sun Sep 21	23 55	18 03	19 19	4 34	5 51	19 14	4 30	5 24	.....	2	11 00.8	7 15	9.2
Sun Sep 21/Mon Sep 22	23 59	18 03	19 20	4 33	5 50	19 18	4 33	5 50	17 32	0	11 44.6	1 23	9.2
Mon Sep 22/Tue Sep 23	0 03	18 04	19 21	4 31	5 48	19 23	4 35	6 16	18 28	1	12 27.5	- 4 26	9.2
Tue Sep 23/Wed Sep 24	0 07	18 04	19 21	4 30	5 47	19 28	4 38	6 42	19 24	3	13 10.5	-10 00	9.1
Wed Sep 24/Thu Sep 25	0 11	18 05	19 22	4 29	5 46	19 32	4 40	7 10	20 20	7	13 54.5	-15 09	9.1
Thu Sep 25/Fri Sep 26	0 15	18 06	19 23	4 27	5 45	19 37	4 43	.....	21 17	12	14 40.3	-19 41	9.1
Fri Sep 26/Sat Sep 27	0 19	18 06	19 24	4 26	5 43	19 42	4 45	.....	22 15	19	15 28.2	-23 25	9.0
Sat Sep 27/Sun Sep 28	0 23	18 07	19 24	4 25	5 42	19 46	4 48	.....	23 13	27	16 18.7	-26 10	9.0
Sun Sep 28/Mon Sep 29	0 27	18 07	19 25	4 23	5 41	19 51	4 51	.....	0 09	36	17 11.4	-27 46	9.0
Mon Sep 29/Tue Sep 30	0 31	18 08	19 26	4 22	5 39	19 55	4 53	.....	1 02	45	18 05.8	-28 04	8.9
Tue Sep 30/Wed Oct 01	0 35	18 09	19 26	4 20	5 38	20 00	4 56	.....	1 51	55	19 01.0	-26 59	8.9

***** 2025 OCTOBER *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----				Twilight	
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Wed Oct 01/Thu Oct 02	0 38	18 09	19 27	4 19	5 37	20 05	4 58	.....	2 34	65	19 55.8	-24 29	8.9
Thu Oct 02/Fri Oct 03	0 42	18 10	19 28	4 18	5 36	20 10	5 01	.....	3 12	75	20 49.7	-20 38	8.8
Fri Oct 03/Sat Oct 04	0 46	18 11	19 29	4 16	5 34	20 14	5 03	.....	3 47	83	21 42.4	-15 36	8.8
Sat Oct 04/Sun Oct 05	0 50	18 11	19 29	4 15	5 33	20 19	5 06	.....	4 19	91	22 34.0	- 9 34	8.8
Sun Oct 05/Mon Oct 06	0 54	18 12	19 30	4 14	5 32	20 24	5 08	.....	4 50	96	23 25.4	- 2 50	8.7
Mon Oct 06/Tue Oct 07	0 58	18 12	19 31	4 12	5 31	20 28	5 11	17 07	5 21	99	0 17.6	4 15	8.7
Tue Oct 07/Wed Oct 08	1 02	18 13	19 32	4 11	5 29	20 33	5 14	18 16	5 55	100	1 11.6	11 16	8.7
Wed Oct 08/Thu Oct 09	1 06	18 14	19 33	4 09	5 28	20 38	5 16	19 28	6 32	97	2 08.5	17 44	8.6
Thu Oct 09/Fri Oct 10	1 10	18 14	19 33	4 08	5 27	20 43	5 19	20 42	.....	91	3 09.0	23 07	8.6
Fri Oct 10/Sat Oct 11	1 14	18 15	19 34	4 07	5 26	20 47	5 21	21 56	.....	83	4 12.8	26 57	8.5
Sat Oct 11/Sun Oct 12	1 18	18 16	19 35	4 05	5 25	20 52	5 24	23 07	.....	73	5 18.4	28 55	8.5
Sun Oct 12/Mon Oct 13	1 22	18 17	19 36	4 04	5 23	20 57	5 26	0 11	.....	62	6 23.4	28 55	8.5
Mon Oct 13/Tue Oct 14	1 26	18 17	19 37	4 03	5 22	21 02	5 29	1 05	.....	51	7 25.6	27 06	8.4
Tue Oct 14/Wed Oct 15	1 30	18 18	19 38	4 01	5 21	21 07	5 32	1 50	.....	40	8 23.3	23 48	8.4
Wed Oct 15/Thu Oct 16	1 34	18 19	19 39	4 00	5 20	21 12	5 34	2 28	.....	30	9 16.3	19 24	8.4
Thu Oct 16/Fri Oct 17	1 38	18 19	19 40	3 59	5 19	21 16	5 37	3 00	.....	21	10 05.2	14 16	8.3
Fri Oct 17/Sat Oct 18	1 42	18 20	19 40	3 57	5 18	21 21	5 39	3 28	.....	14	10 51.0	8 40	8.3
Sat Oct 18/Sun Oct 19	1 46	18 21	19 41	3 56	5 16	21 26	5 42	3 54	.....	8	11 34.7	2 53	8.2
Sun Oct 19/Mon Oct 20	1 49	18 22	19 42	3 55	5 15	21 31	5 45	4 19	.....	3	12 17.4	- 2 54	8.2
Mon Oct 20/Tue Oct 21	1 53	18 22	19 43	3 53	5 14	21 36	5 47	4 45	17 17	1	13 00.1	- 8 30	8.2
Tue Oct 21/Wed Oct 22	1 57	18 23	19 44	3 52	5 13	21 41	5 50	5 13	18 13	0	13 43.6	-13 43	8.1
Wed Oct 22/Thu Oct 23	2 01	18 24	19 45	3 51	5 12	21 46	5 53	5 43	19 09	1	14 28.8	-18 23	8.1
Thu Oct 23/Fri Oct 24	2 05	18 25	19 46	3 49	5 11	21 51	5 55	6 17	20 07	4	15 16.0	-22 19	8.1
Fri Oct 24/Sat Oct 25	2 09	18 25	19 47	3 48	5 10	21 56	5 58	.....	21 04	8	16 05.6	-25 18	8.0
Sat Oct 25/Sun Oct 26*	1 13	18 26	19 48	4 47	6 09	22 01	6 01	.....	22 01	14	16 54.6	-27 12	8.0
Sun Oct 26/Mon Oct 27	1 17	19 27	20 49	4 46	6 08	22 06	6 03	.....	23 55	21	17 48.0	-27 55	7.9
Mon Oct 27/Tue Oct 28	1 21	19 28	20 50	4 44	6 07	22 11	6 06	.....	0 45	29	18 42.0	-27 17	7.9
Tue Oct 28/Wed Oct 29	1 25	19 28	20 51	4 43	6 06	22 16	6 09	.....	1 29	38	19 35.8	-25 19	7.9
Wed Oct 29/Thu Oct 30	1 29	19 29	20 52	4 42	6 05	22 21	6 12	.....	2 08	48	20 28.6	-22 04	7.8
Thu Oct 30/Fri Oct 31	1 33	19 30	20 54	4 41	6 04	22 26	6 14	.....	2 43	58	21 20.1	-17 38	7.8
Fri Oct 31/Sat Nov 01	1 37	19 31	20 55	4 40	6 03	22 31	6 17	.....	3 15	69	22 10.4	-12 12	7.8

Calendar for Anglo-Australian Tel., Siding Spring, west longitude (h.m.s) = - 9 56 16, latitude (d.m) = -31 16.6
 Rise/set times in Australian time (-10 hr W), for 670 m above surroundings, DAYLIGHT time used, * shows clock reset.
 Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2025 NOVEMBER *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----				RA	Dec	Twi-Twi hours
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum				
Sat Nov 01/Sun Nov 02	1 41	19 32	20 56	4 39	6 02	22 36	6 20	.....	3 45	78	23 00.4	- 5 58	7.7
Sun Nov 02/Mon Nov 03	1 44	19 33	20 57	4 37	6 02	22 41	6 23	.....	4 16	87	23 50.9	0 49	7.7
Mon Nov 03/Tue Nov 04	1 48	19 33	20 58	4 36	6 01	22 46	6 25	.....	4 48	94	0 43.3	7 49	7.6
Tue Nov 04/Wed Nov 05	1 52	19 34	20 59	4 35	6 00	22 51	6 28	18 01	5 23	98	1 38.7	14 35	7.6	
Wed Nov 05/Thu Nov 06	1 56	19 35	21 00	4 34	5 59	22 56	6 31	19 14	6 05	100	2 38.2	20 37	7.6	
Thu Nov 06/Fri Nov 07	2 00	19 36	21 01	4 33	5 58	23 01	6 34	20 30	.....	98	3 42.0	25 20	7.5
Fri Nov 07/Sat Nov 08	2 04	19 37	21 02	4 32	5 58	23 06	6 37	21 46	.....	93	4 49.3	28 15	7.5
Sat Nov 08/Sun Nov 09	2 08	19 38	21 04	4 31	5 57	23 11	6 40	22 56	.....	86	5 57.4	29 04	7.5
Sun Nov 09/Mon Nov 10	2 12	19 39	21 05	4 30	5 56	23 16	6 43	23 57	.....	77	7 03.4	27 51	7.4
Mon Nov 10/Tue Nov 11	2 16	19 39	21 06	4 29	5 56	23 21	6 46	0 47	.....	67	8 04.7	24 55	7.4
Tue Nov 11/Wed Nov 12	2 20	19 40	21 07	4 28	5 55	23 27	6 49	1 28	.....	57	9 00.7	20 42	7.4
Wed Nov 12/Thu Nov 13	2 24	19 41	21 08	4 27	5 54	23 32	6 52	2 02	.....	46	9 51.6	15 39	7.3
Thu Nov 13/Fri Nov 14	2 28	19 42	21 09	4 26	5 54	23 37	6 55	2 31	.....	36	10 38.7	10 07	7.3
Fri Nov 14/Sat Nov 15	2 32	19 43	21 11	4 25	5 53	23 42	6 58	2 58	.....	27	11 23.0	4 21	7.2
Sat Nov 15/Sun Nov 16	2 36	19 44	21 12	4 25	5 53	23 47	7 01	3 24	.....	19	12 05.8	- 1 25	7.2
Sun Nov 16/Mon Nov 17	2 40	19 45	21 13	4 24	5 52	23 52	7 04	3 49	.....	12	12 48.3	- 7 02	7.2
Mon Nov 17/Tue Nov 18	2 44	19 46	21 14	4 23	5 52	23 57	7 07	4 16	.....	7	13 31.3	-12 18	7.1
Tue Nov 18/Wed Nov 19	2 48	19 47	21 15	4 22	5 51	0 02	7 11	4 45	18 03	3	14 15.9	-17 05	7.1	
Wed Nov 19/Thu Nov 20	2 52	19 47	21 16	4 22	5 51	0 08	7 14	5 18	19 00	1	15 02.4	-21 12	7.1	
Thu Nov 20/Fri Nov 21	2 55	19 48	21 18	4 21	5 50	0 13	7 17	5 56	19 58	0	15 51.4	-24 26	7.1	
Fri Nov 21/Sat Nov 22	2 59	19 49	21 19	4 20	5 50	0 18	7 20	.....	20 55	1	16 42.6	-26 36	7.0
Sat Nov 22/Sun Nov 23	3 03	19 50	21 20	4 20	5 50	0 23	7 24	.....	21 50	4	17 35.6	-27 34	7.0
Sun Nov 23/Mon Nov 24	3 07	19 51	21 21	4 19	5 49	0 28	7 27	.....	22 41	9	18 29.2	-27 14	7.0
Mon Nov 24/Tue Nov 25	3 11	19 52	21 22	4 18	5 49	0 33	7 30	.....	23 27	15	19 22.5	-25 35	6.9
Tue Nov 25/Wed Nov 26	3 15	19 53	21 23	4 18	5 49	0 38	7 34	.....	0 07	23	20 14.6	-22 40	6.9
Wed Nov 26/Thu Nov 27	3 19	19 54	21 25	4 17	5 48	0 43	7 37	.....	0 43	32	21 05.0	-18 39	6.9
Thu Nov 27/Fri Nov 28	3 23	19 54	21 26	4 17	5 48	0 48	7 41	.....	1 14	42	21 54.0	-13 40	6.9
Fri Nov 28/Sat Nov 29	3 27	19 55	21 27	4 17	5 48	0 53	7 44	.....	1 44	52	22 42.2	- 7 54	6.8
Sat Nov 29/Sun Nov 30	3 31	19 56	21 28	4 16	5 48	0 58	7 48	.....	2 13	63	23 30.4	- 1 34	6.8
Sun Nov 30/Mon Dec 01	3 35	19 57	21 29	4 16	5 48	1 03	7 51	.....	2 43	73	0 19.9	5 05	6.8

***** 2025 DECEMBER *****

Date (eve/morn)	LMST midn	----- Sun: -----				LST twilight:		----- Moon: -----				RA	Dec	Twi-Twi hours
		set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum				
Mon Dec 01/Tue Dec 02	3 39	19 58	21 30	4 16	5 48	1 08	7 55	.....	3 16	83	1 12.0	11 45	6.8
Tue Dec 02/Wed Dec 03	3 43	19 59	21 31	4 15	5 48	1 13	7 59	.....	3 53	91	2 08.1	18 01	6.7
Wed Dec 03/Thu Dec 04	3 47	20 00	21 32	4 15	5 48	1 18	8 02	18 00	4 37	97	3 09.3	23 20	6.7	
Thu Dec 04/Fri Dec 05	3 51	20 00	21 33	4 15	5 48	1 23	8 06	19 16	5 31	99	4 15.3	27 09	6.7	
Fri Dec 05/Sat Dec 06	3 55	20 01	21 34	4 15	5 48	1 28	8 10	20 31	.....	99	5 24.6	28 58	6.7
Sat Dec 06/Sun Dec 07	3 59	20 02	21 35	4 15	5 48	1 33	8 14	21 38	.....	96	6 33.8	28 37	6.7
Sun Dec 07/Mon Dec 08	4 02	20 03	21 36	4 14	5 48	1 38	8 18	22 35	.....	90	7 39.7	26 15	6.6
Mon Dec 08/Tue Dec 09	4 06	20 03	21 37	4 14	5 48	1 43	8 22	23 22	.....	82	8 40.2	22 18	6.6
Tue Dec 09/Wed Dec 10	4 10	20 04	21 38	4 14	5 48	1 48	8 26	24 00	.....	73	9 34.9	17 17	6.6
Wed Dec 10/Thu Dec 11	4 14	20 05	21 39	4 14	5 48	1 53	8 29	0 32	.....	63	10 24.7	11 39	6.6
Thu Dec 11/Fri Dec 12	4 18	20 06	21 40	4 15	5 48	1 57	8 34	1 00	.....	53	11 11.0	5 46	6.6
Fri Dec 12/Sat Dec 13	4 22	20 06	21 40	4 15	5 49	2 02	8 38	1 27	.....	43	11 55.0	- 0 07	6.6
Sat Dec 13/Sun Dec 14	4 26	20 07	21 41	4 15	5 49	2 07	8 42	1 52	.....	34	12 38.0	- 5 51	6.6
Sun Dec 14/Mon Dec 15	4 30	20 08	21 42	4 15	5 49	2 12	8 46	2 19	.....	25	13 21.2	-11 13	6.6
Mon Dec 15/Tue Dec 16	4 34	20 08	21 43	4 15	5 50	2 16	8 50	2 47	.....	17	14 05.4	-16 07	6.5
Tue Dec 16/Wed Dec 17	4 38	20 09	21 43	4 16	5 50	2 21	8 54	3 19	.....	11	14 51.5	-20 21	6.5
Wed Dec 17/Thu Dec 18	4 42	20 10	21 44	4 16	5 50	2 26	8 59	3 55	17 51	6	15 40.0	-23 45	6.5	
Thu Dec 18/Fri Dec 19	4 46	20 10	21 45	4 16	5 51	2 30	9 03	4 37	18 49	2	16 30.8	-26 09	6.5	
Fri Dec 19/Sat Dec 20	4 50	20 11	21 45	4 17	5 51	2 35	9 07	5 25	19 45	0	17 23.5	-27 21	6.5	
Sat Dec 20/Sun Dec 21	4 54	20 11	21 46	4 17	5 52	2 39	9 12	6 19	20 38	0	18 17.2	-27 15	6.5	
Sun Dec 21/Mon Dec 22	4 58	20 12	21 46	4 18	5 52	2 44	9 16	.....	21 25	2	19 10.8	-25 50	6.5
Mon Dec 22/Tue Dec 23	5 02	20 12	21 47	4 18	5 53	2 48	9 20	.....	22 07	6	20 03.2	-23 09	6.5
Tue Dec 23/Wed Dec 24	5 06	20 13	21 47	4 19	5 53	2 52	9 25	.....	22 44	11	20 53.8	-19 21	6.5
Wed Dec 24/Thu Dec 25	5 10	20 13	21 48	4 19	5 54	2 57	9 30	.....	23 17	18	21 42.5	-14 35	6.5
Thu Dec 25/Fri Dec 26	5 13	20 14	21 48	4 20	5 54	3 01	9 34	.....	23 46	26	22 29.5	- 9 05	6.5
Fri Dec 26/Sat Dec 27	5 17	20 14	21 48	4 21	5 55	3 05	9 39	.....	0 15	36	23 16.7	- 3 02	6.5
Sat Dec 27/Sun Dec 28	5 21	20 14	21 49	4 21	5 56	3 10	9 43	.....	0 43	47	0 04.0	3 20	6.5
Sun Dec 28/Mon Dec 29	5 25	20 15	21 49	4 22	5 56	3 14	9 48	.....	1 13	58	0 53.2	9 45	6.6
Mon Dec 29/Tue Dec 30	5 29	20 15	21 49	4 23	5 57	3 18	9 53	.....	1 47	69	1 45.5	15 55	6.6
Tue Dec 30/Wed Dec 31	5 33	20 15	21 49	4 24	5 58	3 22	9 57	.....	2 26	79	2 42.3	21 25	6.6
Wed Dec 31/Thu Jan 01	5 37	20 16	21 49	4 24	5 58	3 26	10 02	.....	3 13	88	3 44.3	25 46	6.6