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:

***** 2016 Night-time Astronomical Calendar for OU Norman *****

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 using
conventions for the USA; for 2007+, 2nd Sunday in March to first Sunday in November.

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 -0.1 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 incaccurate 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

MOON PHASES FOR 2016, at OU Norman

Times and dates are given in local time, zone = 6 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 11 4 30	Dec 18 9 15	Dec 25 5 12	Jan 01 23 32
Jan 09 19 31	Jan 16 17 27	Jan 23 19 46	Jan 31 21 29
Feb 08 8 40	Feb 15 1 48	Feb 22 12 21	Mar 01 17 13
Mar 08 19 56	Mar 15 12 04	Mar 23 7 02	Mar 31 10 19
Apr 07 6 25	Apr 13 23 01	Apr 22 0 25	Apr 29 22 30
May 06 14 31	May 13 12 03	May 21 16 17	May 29 7 14
Jun 04 22 02	Jun 12 3 11	Jun 20 6 05	Jun 27 13 21
Jul 04 6 03	Jul 11 19 53	Jul 19 18 00	Jul 26 18 03
Aug 02 15 47	Aug 10 13 22	Aug 18 4 30	Aug 24 22 44
Sep 01 4 05	Sep 09 6 51	Sep 16 14 08	Sep 23 4 59
Sep 30 19 13	Oct 08 23 35	Oct 15 23 25	Oct 22 14 16
Oct 30 12 40	Nov 07 13 53	Nov 14 7 54	Nov 21 2 35
Nov 29 6 20	Dec 07 3 04	Dec 13 18 07	Dec 20 19 57
Dec 29 0 54	Jan 05 13 48	Jan 12 5 35	Jan 19 16 14

Calendar for OU Norman, west longitude (h.m.s) = 6 29 47, latitude (d.m) = 35 12.2
Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2016 JANUARY *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:				Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Fri Jan 01/Sat Jan 02	6 16	17 28	18 59	6 08	7 38	1 14	12 24	0 40	.....	49	12 47.4	- 3 43	11.1
Sat Jan 02/Sun Jan 03	6 19	17 29	19 00	6 08	7 39	1 18	12 29	1 33	.....	40	13 32.6	- 7 17	11.1
Sun Jan 03/Mon Jan 04	6 23	17 30	19 00	6 08	7 39	1 23	12 33	2 27	.....	31	14 18.6	-10 36	11.1
Mon Jan 04/Tue Jan 05	6 27	17 31	19 01	6 08	7 39	1 28	12 37	3 22	.....	22	15 06.1	-13 31	11.1
Tue Jan 05/Wed Jan 06	6 31	17 31	19 02	6 09	7 39	1 32	12 41	4 17	.....	15	15 55.3	-15 55	11.1
Wed Jan 06/Thu Jan 07	6 35	17 32	19 03	6 09	7 39	1 37	12 45	5 13	.....	9	16 46.6	-17 39	11.1
Thu Jan 07/Fri Jan 08	6 39	17 33	19 03	6 09	7 39	1 42	12 49	6 08	15 49	4	17 39.9	-18 35	11.1
Fri Jan 08/Sat Jan 09	6 43	17 34	19 04	6 09	7 39	1 46	12 53	7 01	16 41	1	18 34.7	-18 34	11.1
Sat Jan 09/Sun Jan 10	6 47	17 35	19 05	6 09	7 39	1 51	12 57	7 51	17 38	0	19 30.5	-17 33	11.1
Sun Jan 10/Mon Jan 11	6 51	17 36	19 06	6 09	7 39	1 56	13 01	.....	18 38	2	20 26.5	-15 33	11.1
Mon Jan 11/Tue Jan 12	6 55	17 37	19 07	6 09	7 39	2 01	13 05	.....	19 42	6	21 22.1	-12 40	11.0
Tue Jan 12/Wed Jan 13	6 59	17 38	19 07	6 09	7 38	2 05	13 09	.....	20 47	12	22 17.0	- 9 03	11.0
Wed Jan 13/Thu Jan 14	7 03	17 39	19 08	6 09	7 38	2 10	13 13	.....	21 53	20	23 11.2	- 4 54	11.0
Thu Jan 14/Fri Jan 15	7 07	17 40	19 09	6 09	7 38	2 15	13 16	.....	22 58	30	0 05.0	- 0 30	11.0
Fri Jan 15/Sat Jan 16	7 11	17 41	19 10	6 08	7 38	2 20	13 20	.....	0 03	41	0 58.8	3 55	11.0
Sat Jan 16/Sun Jan 17	7 15	17 42	19 11	6 08	7 37	2 25	13 24	.....	1 09	52	1 53.2	8 07	11.0
Sun Jan 17/Mon Jan 18	7 19	17 43	19 12	6 08	7 37	2 29	13 28	.....	2 13	64	2 48.6	11 49	10.9
Mon Jan 18/Tue Jan 19	7 23	17 43	19 12	6 08	7 37	2 34	13 31	.....	3 17	74	3 45.1	14 49	10.9
Tue Jan 19/Wed Jan 20	7 26	17 44	19 13	6 08	7 36	2 39	13 35	.....	4 19	83	4 42.7	16 55	10.9
Wed Jan 20/Thu Jan 21	7 30	17 45	19 14	6 07	7 36	2 44	13 39	.....	5 17	91	5 40.7	17 58	10.9
Thu Jan 21/Fri Jan 22	7 34	17 46	19 15	6 07	7 35	2 49	13 42	15 54	6 11	96	6 38.4	17 56	10.9
Fri Jan 22/Sat Jan 23	7 38	17 48	19 16	6 07	7 35	2 53	13 46	16 50	6 59	99	7 34.9	16 51	10.8
Sat Jan 23/Sun Jan 24	7 42	17 49	19 17	6 06	7 34	2 58	13 50	17 48	7 43	100	8 29.4	14 52	10.8
Sun Jan 24/Mon Jan 25	7 46	17 50	19 18	6 06	7 34	3 03	13 53	18 47	.....	98	9 21.8	12 08	10.8
Mon Jan 25/Tue Jan 26	7 50	17 51	19 19	6 05	7 33	3 08	13 57	19 44	.....	95	10 11.8	8 52	10.8
Tue Jan 26/Wed Jan 27	7 54	17 52	19 19	6 05	7 33	3 13	14 00	20 40	.....	90	10 59.9	5 17	10.8
Wed Jan 27/Thu Jan 28	7 58	17 53	19 20	6 05	7 32	3 18	14 04	21 35	.....	83	11 46.5	1 31	10.7
Thu Jan 28/Fri Jan 29	8 02	17 54	19 21	6 04	7 31	3 22	14 07	22 29	.....	75	12 32.2	- 2 15	10.7
Fri Jan 29/Sat Jan 30	8 06	17 55	19 22	6 03	7 31	3 27	14 10	23 23	.....	67	13 17.5	- 5 54	10.7
Sat Jan 30/Sun Jan 31	8 10	17 56	19 23	6 03	7 30	3 32	14 14	0 16	.....	58	14 03.3	- 9 19	10.7
Sun Jan 31/Mon Feb 01	8 14	17 57	19 24	6 02	7 29	3 37	14 17	1 10	.....	48	14 49.9	-12 23	10.6

***** 2016 FEBRUARY *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:				Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Mon Feb 01/Tue Feb 02	8 18	17 58	19 25	6 02	7 29	3 42	14 20	2 05	.....	39	15 38.1	-14 59	10.6
Tue Feb 02/Wed Feb 03	8 22	17 59	19 26	6 01	7 28	3 47	14 24	2 59	.....	30	16 28.1	-16 59	10.6
Wed Feb 03/Thu Feb 04	8 26	18 00	19 27	6 00	7 27	3 51	14 27	3 54	.....	21	17 20.1	-18 14	10.6
Thu Feb 04/Fri Feb 05	8 30	18 01	19 27	6 00	7 26	3 56	14 30	4 47	.....	13	18 13.9	-18 37	10.5
Fri Feb 05/Sat Feb 06	8 34	18 02	19 28	5 59	7 25	4 01	14 33	5 39	.....	7	19 09.3	-18 02	10.5
Sat Feb 06/Sun Feb 07	8 37	18 03	19 29	5 58	7 24	4 06	14 37	6 28	16 21	3	20 05.6	-16 27	10.5
Sun Feb 07/Mon Feb 08	8 41	18 04	19 30	5 57	7 23	4 11	14 40	7 14	17 24	0	21 02.2	-13 53	10.5
Mon Feb 08/Tue Feb 09	8 45	18 05	19 31	5 57	7 22	4 16	14 43	7 57	18 30	1	21 58.6	-10 28	10.4
Tue Feb 09/Wed Feb 10	8 49	18 06	19 32	5 56	7 22	4 20	14 46	.....	19 37	3	22 54.4	- 6 25	10.4
Wed Feb 10/Thu Feb 11	8 53	18 07	19 33	5 55	7 21	4 25	14 49	.....	20 45	9	23 49.8	- 1 58	10.4
Thu Feb 11/Fri Feb 12	8 57	18 08	19 34	5 54	7 20	4 30	14 52	.....	21 53	17	0 45.0	2 33	10.3
Fri Feb 12/Sat Feb 13	9 01	18 09	19 34	5 53	7 19	4 35	14 55	.....	23 00	26	1 40.2	6 54	10.3
Sat Feb 13/Sun Feb 14	9 05	18 10	19 35	5 52	7 18	4 40	14 58	.....	0 06	37	2 35.8	10 46	10.3
Sun Feb 14/Mon Feb 15	9 09	18 11	19 36	5 51	7 16	4 44	15 01	.....	1 11	48	3 32.1	13 57	10.3
Mon Feb 15/Tue Feb 16	9 13	18 12	19 37	5 50	7 15	4 49	15 04	.....	2 13	60	4 28.8	16 16	10.2
Tue Feb 16/Wed Feb 17	9 17	18 13	19 38	5 49	7 14	4 54	15 07	.....	3 11	70	5 25.8	17 35	10.2
Wed Feb 17/Thu Feb 18	9 21	18 14	19 39	5 48	7 13	4 59	15 10	.....	4 06	79	6 22.4	17 52	10.2
Thu Feb 18/Fri Feb 19	9 25	18 15	19 40	5 47	7 12	5 04	15 13	.....	4 55	87	7 18.1	17 08	10.1
Fri Feb 19/Sat Feb 20	9 29	18 16	19 41	5 46	7 11	5 09	15 16	.....	5 40	94	8 12.2	15 28	10.1
Sat Feb 20/Sun Feb 21	9 33	18 17	19 41	5 45	7 10	5 13	15 19	16 37	6 20	98	9 04.5	13 02	10.1
Sun Feb 21/Mon Feb 22	9 37	18 18	19 42	5 44	7 09	5 18	15 21	17 34	6 57	100	9 54.9	9 59	10.0
Mon Feb 22/Tue Feb 23	9 41	18 19	19 43	5 43	7 07	5 23	15 24	18 31	7 32	100	10 43.5	6 31	10.0
Tue Feb 23/Wed Feb 24	9 44	18 19	19 44	5 42	7 06	5 28	15 27	19 26	.....	98	11 30.7	2 49	10.0
Wed Feb 24/Thu Feb 25	9 48	18 20	19 45	5 41	7 05	5 33	15 30	20 20	.....	94	12 16.9	- 0 58	9.9
Thu Feb 25/Fri Feb 26	9 52	18 21	19 46	5 39	7 04	5 37	15 33	21 14	.....	89	13 02.6	- 4 42	9.9
Fri Feb 26/Sat Feb 27	9 56	18 22	19 47	5 38	7 02	5 42	15 35	22 08	.....	82	13 48.5	- 8 13	9.9
Sat Feb 27/Sun Feb 28	10 00	18 23	19 48	5 37	7 01	5 47	15 38	23 01	.....	74	14 34.9	-11 24	9.8
Sun Feb 28/Mon Feb 29	10 04	18 24	19 48	5 36	7 00	5 52	15 41	23 55	.....	66	15 22.3	-14 10	9.8
Mon Feb 29/Tue Mar 01	10 08	18 25	19 49	5 34	6 59	5 57	15 43	0 48	.....	56	16 11.2	-16 21	9.8

Calendar for OU Norman, west longitude (h.m.s) = 6 29 47, latitude (d.m) = 35 12.2
Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2016 MARCH *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:					Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Tue Mar 01/Wed Mar 02	10 12	18 26	19 50	5 33	6 57	6 02	15 46	1 42	.....	47	17 01.7	-17 51	9.7
Wed Mar 02/Thu Mar 03	10 16	18 27	19 51	5 32	6 56	6 06	15 49	2 34	.....	37	17 54.0	-18 34	9.7
Thu Mar 03/Fri Mar 04	10 20	18 28	19 52	5 31	6 55	6 11	15 51	3 26	.....	27	18 47.8	-18 23	9.6
Fri Mar 04/Sat Mar 05	10 24	18 28	19 53	5 29	6 53	6 16	15 54	4 15	.....	18	19 42.9	-17 14	9.6
Sat Mar 05/Sun Mar 06	10 28	18 29	19 54	5 28	6 52	6 21	15 57	5 02	.....	11	20 38.8	-15 06	9.6
Sun Mar 06/Mon Mar 07	10 32	18 30	19 54	5 27	6 51	6 26	15 59	5 47	.....	5	21 35.1	-12 03	9.5
Mon Mar 07/Tue Mar 08	10 36	18 31	19 55	5 25	6 49	6 30	16 02	6 30	17 14	1	22 31.5	- 8 14	9.5
Tue Mar 08/Wed Mar 09	10 40	18 32	19 56	5 24	6 48	6 35	16 04	7 11	18 23	0	23 27.9	- 3 53	9.5
Wed Mar 09/Thu Mar 10	10 44	18 33	19 57	5 22	6 47	6 40	16 07	.....	19 33	2	0 24.5	0 44	9.4
Thu Mar 10/Fri Mar 11	10 48	18 34	19 58	5 21	6 45	6 45	16 09	.....	20 43	7	1 21.3	5 18	9.4
Fri Mar 11/Sat Mar 12	10 51	18 34	19 59	5 20	6 44	6 50	16 12	.....	21 52	14	2 18.4	9 28	9.3
Sat Mar 12/Sun Mar 13*	10 55	18 35	20 00	6 18	7 42	6 55	16 15	.....	22 59	23	3 16.1	12 58	9.3
Sun Mar 13/Mon Mar 14	9 59	19 36	21 01	6 17	7 41	6 59	16 17	.....	1 04	33	4 11.5	15 34	9.3
Mon Mar 14/Tue Mar 15	10 03	19 37	21 02	6 15	7 40	7 04	16 19	.....	2 06	44	5 09.4	17 13	9.2
Tue Mar 15/Wed Mar 16	10 07	19 38	21 02	6 14	7 38	7 09	16 22	.....	3 02	55	6 06.7	17 48	9.2
Wed Mar 16/Thu Mar 17	10 11	19 39	21 03	6 12	7 37	7 14	16 24	.....	3 53	65	7 02.6	17 21	9.2
Thu Mar 17/Fri Mar 18	10 15	19 39	21 04	6 11	7 35	7 19	16 27	.....	4 39	75	7 56.9	15 57	9.1
Fri Mar 18/Sat Mar 19	10 19	19 40	21 05	6 09	7 34	7 24	16 29	.....	5 20	83	8 49.2	13 46	9.1
Sat Mar 19/Sun Mar 20	10 23	19 41	21 06	6 08	7 33	7 28	16 32	.....	5 58	90	9 39.5	10 55	9.0
Sun Mar 20/Mon Mar 21	10 27	19 42	21 07	6 06	7 31	7 33	16 34	17 24	6 33	95	10 28.1	7 37	9.0
Mon Mar 21/Tue Mar 22	10 31	19 43	21 08	6 05	7 30	7 38	16 37	18 19	7 06	99	11 15.3	4 00	9.0
Tue Mar 22/Wed Mar 23	10 35	19 44	21 09	6 03	7 28	7 43	16 39	19 14	.....	100	12 01.6	0 14	8.9
Wed Mar 23/Thu Mar 24	10 39	19 44	21 10	6 02	7 27	7 48	16 41	20 08	.....	99	12 47.4	- 3 31	8.9
Thu Mar 24/Fri Mar 25	10 43	19 45	21 11	6 00	7 26	7 53	16 44	21 01	.....	97	13 33.2	- 7 08	8.8
Fri Mar 25/Sat Mar 26	10 47	19 46	21 12	5 59	7 24	7 58	16 46	21 55	.....	93	14 19.5	-10 27	8.8
Sat Mar 26/Sun Mar 27	10 50	19 47	21 12	5 57	7 23	8 02	16 49	22 48	.....	88	15 06.7	-13 22	8.7
Sun Mar 27/Mon Mar 28	10 54	19 48	21 13	5 56	7 21	8 07	16 51	23 42	.....	81	15 55.0	-15 46	8.7
Mon Mar 28/Tue Mar 29	10 58	19 48	21 14	5 54	7 20	8 12	16 53	0 34	.....	73	16 44.6	-17 30	8.7
Tue Mar 29/Wed Mar 30	11 02	19 49	21 15	5 53	7 19	8 17	16 56	1 27	.....	64	17 35.5	-18 29	8.6
Wed Mar 30/Thu Mar 31	11 06	19 50	21 16	5 51	7 17	8 22	16 58	2 17	.....	54	18 27.7	-18 38	8.6
Thu Mar 31/Fri Apr 01	11 10	19 51	21 17	5 49	7 16	8 27	17 01	3 06	.....	44	19 21.0	-17 52	8.5

***** 2016 APRIL *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:					Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Fri Apr 01/Sat Apr 02	11 14	19 52	21 18	5 48	7 14	8 32	17 03	3 53	.....	33	20 15.1	-16 11	8.5
Sat Apr 02/Sun Apr 03	11 18	19 52	21 19	5 46	7 13	8 37	17 05	4 37	.....	24	21 09.8	-13 36	8.5
Sun Apr 03/Mon Apr 04	11 22	19 53	21 20	5 45	7 12	8 42	17 08	5 20	.....	15	22 04.9	-10 12	8.4
Mon Apr 04/Tue Apr 05	11 26	19 54	21 21	5 43	7 10	8 47	17 10	6 01	16 58	8	23 00.5	- 6 07	8.4
Tue Apr 05/Wed Apr 06	11 30	19 55	21 22	5 42	7 09	8 52	17 12	6 42	18 07	3	23 56.6	- 1 36	8.3
Wed Apr 06/Thu Apr 07	11 34	19 56	21 23	5 40	7 08	8 57	17 15	.....	19 17	0	0 53.6	3 04	8.3
Thu Apr 07/Fri Apr 08	11 38	19 56	21 24	5 38	7 06	9 02	17 17	.....	20 28	1	1 51.5	7 32	8.2
Fri Apr 08/Sat Apr 09	11 42	19 57	21 25	5 37	7 05	9 07	17 20	.....	21 39	4	2 50.5	11 30	8.2
Sat Apr 09/Sun Apr 10	11 46	19 58	21 26	5 35	7 03	9 12	17 22	.....	22 48	11	3 50.1	14 38	8.1
Sun Apr 10/Mon Apr 11	11 50	19 59	21 27	5 34	7 02	9 17	17 24	.....	23 53	19	4 49.9	16 44	8.1
Mon Apr 11/Tue Apr 12	11 54	20 00	21 28	5 32	7 01	9 22	17 27	.....	0 54	29	5 49.1	17 42	8.1
Tue Apr 12/Wed Apr 13	11 57	20 01	21 29	5 31	6 59	9 27	17 29	.....	1 49	39	6 46.8	17 33	8.0
Wed Apr 13/Thu Apr 14	12 01	20 01	21 31	5 29	6 58	9 32	17 31	.....	2 37	50	7 42.4	16 24	8.0
Thu Apr 14/Fri Apr 15	12 05	20 02	21 32	5 27	6 57	9 37	17 34	.....	3 21	60	8 35.6	14 23	7.9
Fri Apr 15/Sat Apr 16	12 09	20 03	21 33	5 26	6 56	9 42	17 36	.....	3 59	70	9 26.5	11 41	7.9
Sat Apr 16/Sun Apr 17	12 13	20 04	21 34	5 24	6 54	9 47	17 39	.....	4 35	79	10 15.3	8 29	7.8
Sun Apr 17/Mon Apr 18	12 17	20 05	21 35	5 23	6 53	9 52	17 41	.....	5 08	86	11 02.6	4 56	7.8
Mon Apr 18/Tue Apr 19	12 21	20 05	21 36	5 21	6 52	9 57	17 43	17 09	5 40	92	11 48.8	1 12	7.8
Tue Apr 19/Wed Apr 20	12 25	20 06	21 37	5 20	6 51	10 02	17 46	18 02	6 11	96	12 34.5	- 2 34	7.7
Wed Apr 20/Thu Apr 21	12 29	20 07	21 38	5 18	6 49	10 07	17 48	18 56	6 43	99	13 20.2	- 6 15	7.7
Thu Apr 21/Fri Apr 22	12 33	20 08	21 39	5 17	6 48	10 12	17 51	19 50	.....	100	14 06.5	- 9 43	7.6
Fri Apr 22/Sat Apr 23	12 37	20 09	21 40	5 15	6 47	10 17	17 53	20 43	.....	99	14 53.6	-12 48	7.6
Sat Apr 23/Sun Apr 24	12 41	20 09	21 42	5 14	6 46	10 22	17 56	21 37	.....	96	15 41.9	-15 23	7.5
Sun Apr 24/Mon Apr 25	12 45	20 10	21 43	5 12	6 45	10 27	17 58	22 30	.....	92	16 31.5	-17 20	7.5
Mon Apr 25/Tue Apr 26	12 49	20 11	21 44	5 11	6 44	10 32	18 00	23 23	.....	85	17 22.3	-18 33	7.5
Tue Apr 26/Wed Apr 27	12 53	20 12	21 45	5 09	6 42	10 37	18 03	0 14	.....	78	18 14.2	-18 56	7.4
Wed Apr 27/Thu Apr 28	12 57	20 13	21 46	5 08	6 41	10 42	18 05	1 02	.....	69	19 06.8	-18 26	7.4
Thu Apr 28/Fri Apr 29	13 01	20 14	21 47	5 07	6 40	10 47	18 08	1 49	.....	59	19 59.9	-17 01	7.3
Fri Apr 29/Sat Apr 30	13 05	20 14	21 48	5 05	6 39	10 53	18 10	2 32	.....	49	20 53.3	-14 45	7.3
Sat Apr 30/Sun May 01	13 08	20 15	21 50	5 04	6 38	10 58	18 13	3 14	.....	38	21 46.7	-11 39	7.2

Calendar for OU Norman, west longitude (h.m.s) = 6 29 47, latitude (d.m) = 35 12.2
Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2016 MAY *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:					Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Sun May 01/Mon May 02	13 12	20 16	21 51	5 02	6 37	11 03	18 16	3 54	.....	28	22 40.5	- 7 53	7.2
Mon May 02/Tue May 03	13 16	20 17	21 52	5 01	6 36	11 08	18 18	4 34	.....	18	23 34.8	- 3 37	7.2
Tue May 03/Wed May 04	13 20	20 18	21 53	5 00	6 35	11 13	18 21	5 14	.....	10	0 30.0	0 57	7.1
Wed May 04/Thu May 05	13 24	20 19	21 54	4 58	6 34	11 18	18 23	5 56	18 02	4	1 26.6	5 31	7.1
Thu May 05/Fri May 06	13 28	20 19	21 55	4 57	6 33	11 23	18 26	.....	19 13	1	2 24.7	9 45	7.0
Fri May 06/Sat May 07	13 32	20 20	21 57	4 56	6 32	11 28	18 29	.....	20 24	0	3 24.3	13 20	7.0
Sat May 07/Sun May 08	13 36	20 21	21 58	4 54	6 31	11 34	18 31	.....	21 33	3	4 25.0	15 58	6.9
Sun May 08/Mon May 09	13 40	20 22	21 59	4 53	6 30	11 39	18 34	.....	22 38	8	5 25.8	17 28	6.9
Mon May 09/Tue May 10	13 44	20 23	22 00	4 52	6 29	11 44	18 37	.....	23 38	16	6 25.7	17 47	6.9
Tue May 10/Wed May 11	13 48	20 23	22 01	4 51	6 29	11 49	18 39	.....	0 31	24	7 23.6	16 58	6.8
Wed May 11/Thu May 12	13 52	20 24	22 02	4 49	6 28	11 54	18 42	.....	1 18	34	8 19.0	15 11	6.8
Thu May 12/Fri May 13	13 56	20 25	22 04	4 48	6 27	11 59	18 45	.....	1 59	44	9 11.5	12 38	6.7
Fri May 13/Sat May 14	14 00	20 26	22 05	4 47	6 26	12 04	18 48	.....	2 36	55	10 01.5	9 31	6.7
Sat May 14/Sun May 15	14 04	20 27	22 06	4 46	6 25	12 09	18 50	.....	3 10	64	10 49.5	6 02	6.7
Sun May 15/Mon May 16	14 08	20 27	22 07	4 45	6 25	12 14	18 53	.....	3 42	73	11 35.9	2 19	6.6
Mon May 16/Tue May 17	14 12	20 28	22 08	4 44	6 24	12 19	18 56	.....	4 14	81	12 21.6	- 1 29	6.6
Tue May 17/Wed May 18	14 15	20 29	22 09	4 43	6 23	12 24	18 59	.....	4 45	88	13 07.2	- 5 14	6.6
Wed May 18/Thu May 19	14 19	20 30	22 10	4 42	6 23	12 30	19 02	17 44	5 18	94	13 53.1	- 8 48	6.5
Thu May 19/Fri May 20	14 23	20 30	22 12	4 41	6 22	12 35	19 05	18 38	5 52	97	14 40.0	-12 03	6.5
Fri May 20/Sat May 21	14 27	20 31	22 13	4 40	6 21	12 40	19 08	19 32	6 29	99	15 28.2	-14 51	6.5
Sat May 21/Sun May 22	14 31	20 32	22 14	4 39	6 21	12 45	19 11	20 26	.....	100	16 17.9	-17 03	6.4
Sun May 22/Mon May 23	14 35	20 33	22 15	4 38	6 20	12 50	19 14	21 19	.....	98	17 09.0	-18 31	6.4
Mon May 23/Tue May 24	14 39	20 33	22 16	4 37	6 20	12 55	19 17	22 11	.....	94	18 01.2	-19 10	6.4
Tue May 24/Wed May 25	14 43	20 34	22 17	4 36	6 19	13 00	19 20	23 01	.....	89	18 54.3	-18 55	6.3
Wed May 25/Thu May 26	14 47	20 35	22 18	4 36	6 19	13 05	19 23	23 48	.....	82	19 47.6	-17 44	6.3
Thu May 26/Fri May 27	14 51	20 35	22 19	4 35	6 18	13 10	19 27	0 32	.....	73	20 40.8	-15 41	6.3
Fri May 27/Sat May 28	14 55	20 36	22 20	4 34	6 18	13 15	19 30	1 14	.....	64	21 33.8	-12 49	6.2
Sat May 28/Sun May 29	14 59	20 37	22 21	4 33	6 17	13 19	19 33	1 53	.....	53	22 26.5	- 9 16	6.2
Sun May 29/Mon May 30	15 03	20 37	22 22	4 33	6 17	13 24	19 36	2 32	.....	42	23 19.3	- 5 12	6.2
Mon May 30/Tue May 31	15 07	20 38	22 23	4 32	6 17	13 29	19 40	3 10	.....	31	0 12.6	- 0 48	6.2
Tue May 31/Wed Jun 01	15 11	20 39	22 24	4 31	6 16	13 34	19 43	3 49	.....	21	1 06.9	3 42	6.1

***** 2016 JUNE *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:					Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Wed Jun 01/Thu Jun 02	15 15	20 39	22 25	4 31	6 16	13 39	19 46	4 31	.....	12	2 02.8	8 01	6.1
Thu Jun 02/Fri Jun 03	15 19	20 40	22 25	4 30	6 16	13 44	19 50	5 16	18 01	6	3 00.5	11 52	6.1
Fri Jun 03/Sat Jun 04	15 23	20 41	22 26	4 30	6 16	13 48	19 53	6 06	19 10	2	3 59.9	14 56	6.1
Sat Jun 04/Sun Jun 05	15 26	20 41	22 27	4 30	6 15	13 53	19 57	.....	20 17	0	5 00.5	16 58	6.0
Sun Jun 05/Mon Jun 06	15 30	20 42	22 28	4 29	6 15	13 58	20 00	.....	21 20	2	6 01.2	17 49	6.0
Mon Jun 06/Tue Jun 07	15 34	20 42	22 28	4 29	6 15	14 03	20 04	.....	22 18	6	7 00.8	17 29	6.0
Tue Jun 07/Wed Jun 08	15 38	20 43	22 29	4 28	6 15	14 07	20 07	.....	23 10	12	7 58.3	16 04	6.0
Wed Jun 08/Thu Jun 09	15 42	20 43	22 30	4 28	6 15	14 12	20 11	.....	23 55	20	8 53.0	13 46	6.0
Thu Jun 09/Fri Jun 10	15 46	20 44	22 30	4 28	6 15	14 16	20 15	.....	0 35	29	9 44.9	10 47	6.0
Fri Jun 10/Sat Jun 11	15 50	20 44	22 31	4 28	6 15	14 21	20 19	.....	1 11	39	10 34.2	7 21	5.9
Sat Jun 11/Sun Jun 12	15 54	20 45	22 32	4 28	6 15	14 25	20 22	.....	1 44	48	11 21.6	3 39	5.9
Sun Jun 12/Mon Jun 13	15 58	20 45	22 32	4 27	6 15	14 30	20 26	.....	2 16	58	12 07.8	- 0 10	5.9
Mon Jun 13/Tue Jun 14	16 02	20 45	22 33	4 27	6 15	14 34	20 30	.....	2 47	67	12 53.3	- 3 58	5.9
Tue Jun 14/Wed Jun 15	16 06	20 46	22 33	4 27	6 15	14 39	20 34	.....	3 19	76	13 39.0	- 7 38	5.9
Wed Jun 15/Thu Jun 16	16 10	20 46	22 34	4 27	6 15	14 43	20 38	.....	3 52	84	14 25.4	-11 01	5.9
Thu Jun 16/Fri Jun 17	16 14	20 46	22 34	4 27	6 15	14 48	20 42	.....	4 28	90	15 13.1	-14 01	5.9
Fri Jun 17/Sat Jun 18	16 18	20 47	22 34	4 28	6 15	14 52	20 46	18 19	5 07	95	16 02.4	-16 28	5.9
Sat Jun 18/Sun Jun 19	16 22	20 47	22 35	4 28	6 15	14 56	20 50	19 13	5 50	98	16 53.4	-18 14	5.9
Sun Jun 19/Mon Jun 20	16 26	20 47	22 35	4 28	6 16	15 00	20 54	20 06	.....	100	17 45.9	-19 12	5.9
Mon Jun 20/Tue Jun 21	16 30	20 47	22 35	4 28	6 16	15 04	20 58	20 57	.....	99	18 39.6	-19 15	5.9
Tue Jun 21/Wed Jun 22	16 33	20 48	22 35	4 28	6 16	15 09	21 03	21 46	.....	97	19 33.9	-18 21	5.9
Wed Jun 22/Thu Jun 23	16 37	20 48	22 35	4 29	6 16	15 13	21 07	22 32	.....	92	20 28.1	-16 31	5.9
Thu Jun 23/Fri Jun 24	16 41	20 48	22 36	4 29	6 17	15 17	21 11	23 15	.....	85	21 21.9	-13 49	5.9
Fri Jun 24/Sat Jun 25	16 45	20 48	22 36	4 29	6 17	15 21	21 15	23 55	.....	77	22 15.1	-10 24	5.9
Sat Jun 25/Sun Jun 26	16 49	20 48	22 36	4 30	6 17	15 25	21 20	0 34	.....	67	23 07.8	- 6 26	5.9
Sun Jun 26/Mon Jun 27	16 53	20 48	22 36	4 30	6 18	15 29	21 24	1 11	.....	56	0 00.4	- 2 08	5.9
Mon Jun 27/Tue Jun 28	16 57	20 48	22 36	4 31	6 18	15 33	21 29	1 49	.....	45	0 53.5	2 18	5.9
Tue Jun 28/Wed Jun 29	17 01	20 48	22 35	4 31	6 18	15 36	21 33	2 28	.....	33	1 47.5	6 37	5.9
Wed Jun 29/Thu Jun 30	17 05	20 48	22 35	4 32	6 19	15 40	21 38	3 10	.....	23	2 43.0	10 33	5.9
Thu Jun 30/Fri Jul 01	17 09	20 48	22 35	4 32	6 19	15 44	21 42	3 56	.....	14	3 40.3	13 51	6.0

Calendar for OU Norman, west longitude (h.m.s) = 6 29 47, latitude (d.m) = 35 12.2
Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2016 JULY *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:					Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Fri Jul 01/Sat Jul 02	17 13	20 48	22 35	4 33	6 20	15 48	21 47	4 47	17 59	7	4 39.0	16 15	6.0
Sat Jul 02/Sun Jul 03	17 17	20 48	22 35	4 34	6 20	15 51	21 51	5 42	19 03	2	5 38.7	17 35	6.0
Sun Jul 03/Mon Jul 04	17 21	20 48	22 34	4 34	6 21	15 55	21 56	.....	20 03	0	6 38.2	17 45	6.0
Mon Jul 04/Tue Jul 05	17 25	20 48	22 34	4 35	6 21	15 58	22 00	.....	20 58	1	7 36.4	16 47	6.0
Tue Jul 05/Wed Jul 06	17 29	20 48	22 34	4 36	6 22	16 02	22 05	.....	21 47	4	8 32.5	14 50	6.0
Wed Jul 06/Thu Jul 07	17 33	20 47	22 33	4 36	6 22	16 06	22 10	.....	22 30	9	9 26.0	12 06	6.1
Thu Jul 07/Fri Jul 08	17 37	20 47	22 33	4 37	6 23	16 09	22 15	.....	23 08	16	10 16.8	8 48	6.1
Fri Jul 08/Sat Jul 09	17 41	20 47	22 32	4 38	6 23	16 12	22 19	.....	23 43	24	11 05.5	5 09	6.1
Sat Jul 09/Sun Jul 10	17 44	20 47	22 32	4 39	6 24	16 16	22 24	.....	0 16	32	11 52.4	1 19	6.1
Sun Jul 10/Mon Jul 11	17 48	20 46	22 31	4 40	6 25	16 19	22 29	.....	0 48	42	12 38.3	- 2 31	6.1
Mon Jul 11/Tue Jul 12	17 52	20 46	22 30	4 41	6 25	16 22	22 34	.....	1 20	51	13 24.0	- 6 15	6.2
Tue Jul 12/Wed Jul 13	17 56	20 46	22 30	4 42	6 26	16 26	22 39	.....	1 52	61	14 09.9	- 9 45	6.2
Wed Jul 13/Thu Jul 14	18 00	20 45	22 29	4 43	6 26	16 29	22 44	.....	2 27	70	14 56.9	-12 53	6.2
Thu Jul 14/Fri Jul 15	18 04	20 45	22 28	4 43	6 27	16 32	22 48	.....	3 04	78	15 45.2	-15 33	6.3
Fri Jul 15/Sat Jul 16	18 08	20 44	22 28	4 44	6 28	16 35	22 53	.....	3 45	86	16 35.4	-17 36	6.3
Sat Jul 16/Sun Jul 17	18 12	20 44	22 27	4 45	6 28	16 39	22 58	17 57	4 31	92	17 27.4	-18 54	6.3
Sun Jul 17/Mon Jul 18	18 16	20 43	22 26	4 46	6 29	16 42	23 03	18 50	5 21	97	18 21.1	-19 20	6.3
Mon Jul 18/Tue Jul 19	18 20	20 43	22 25	4 47	6 30	16 45	23 08	19 40	6 16	99	19 15.9	-18 48	6.4
Tue Jul 19/Wed Jul 20	18 24	20 42	22 24	4 48	6 30	16 48	23 13	20 28	.....	100	20 11.2	-17 16	6.4
Wed Jul 20/Thu Jul 21	18 28	20 42	22 23	4 50	6 31	16 51	23 18	21 13	.....	98	21 06.5	-14 49	6.4
Thu Jul 21/Fri Jul 22	18 32	20 41	22 22	4 51	6 32	16 54	23 23	21 55	.....	94	22 01.2	-11 32	6.5
Fri Jul 22/Sat Jul 23	18 36	20 40	22 21	4 52	6 33	16 57	23 28	22 35	.....	88	22 55.2	- 7 38	6.5
Sat Jul 23/Sun Jul 24	18 40	20 40	22 20	4 53	6 33	17 00	23 33	23 13	.....	79	23 48.8	- 3 20	6.5
Sun Jul 24/Mon Jul 25	18 44	20 39	22 19	4 54	6 34	17 02	23 38	23 51	.....	69	0 42.2	1 08	6.6
Mon Jul 25/Tue Jul 26	18 48	20 38	22 18	4 55	6 35	17 05	23 43	0 30	.....	58	1 36.0	5 30	6.6
Tue Jul 26/Wed Jul 27	18 51	20 37	22 17	4 56	6 35	17 08	23 48	1 10	.....	47	2 30.7	9 32	6.7
Wed Jul 27/Thu Jul 28	18 55	20 37	22 16	4 57	6 36	17 11	23 53	1 53	.....	35	3 26.6	12 58	6.7
Thu Jul 28/Fri Jul 29	18 59	20 36	22 15	4 58	6 37	17 14	23 58	2 41	.....	25	4 23.7	15 35	6.7
Fri Jul 29/Sat Jul 30	19 03	20 35	22 13	4 59	6 38	17 16	0 03	3 33	.....	16	5 21.7	17 13	6.8
Sat Jul 30/Sun Jul 31	19 07	20 34	22 12	5 00	6 38	17 19	0 08	4 28	17 52	9	6 20.0	17 46	6.8
Sun Jul 31/Mon Aug 01	19 11	20 33	22 11	5 02	6 39	17 22	0 14	5 27	18 48	3	7 17.6	17 12	6.8

***** 2016 AUGUST *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:					Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Mon Aug 01/Tue Aug 02	19 15	20 32	22 10	5 03	6 40	17 25	0 19	6 28	19 38	1	8 13.6	15 37	6.9
Tue Aug 02/Wed Aug 03	19 19	20 32	22 08	5 04	6 41	17 27	0 24	.....	20 23	0	9 07.6	13 12	6.9
Wed Aug 03/Thu Aug 04	19 23	20 31	22 07	5 05	6 42	17 30	0 29	.....	21 04	2	9 59.3	10 06	7.0
Thu Aug 04/Fri Aug 05	19 27	20 30	22 06	5 06	6 42	17 33	0 34	.....	21 41	6	10 48.8	6 35	7.0
Fri Aug 05/Sat Aug 06	19 31	20 29	22 05	5 07	6 43	17 35	0 39	.....	22 15	11	11 36.5	2 48	7.0
Sat Aug 06/Sun Aug 07	19 35	20 28	22 03	5 08	6 44	17 38	0 44	.....	22 47	18	12 22.9	- 1 03	7.1
Sun Aug 07/Mon Aug 08	19 39	20 27	22 02	5 09	6 45	17 40	0 49	.....	23 19	26	13 08.7	- 4 50	7.1
Mon Aug 08/Tue Aug 09	19 43	20 26	22 00	5 10	6 45	17 43	0 54	.....	23 52	35	13 54.4	- 8 25	7.2
Tue Aug 09/Wed Aug 10	19 47	20 25	21 59	5 12	6 46	17 45	0 59	.....	0 25	44	14 40.7	-11 40	7.2
Wed Aug 10/Thu Aug 11	19 51	20 23	21 58	5 13	6 47	17 48	1 04	.....	1 01	54	15 28.0	-14 30	7.3
Thu Aug 11/Fri Aug 12	19 55	20 22	21 56	5 14	6 48	17 50	1 09	.....	1 40	63	16 16.9	-16 46	7.3
Fri Aug 12/Sat Aug 13	19 58	20 21	21 55	5 15	6 48	17 53	1 14	.....	2 23	72	17 07.6	-18 22	7.3
Sat Aug 13/Sun Aug 14	20 02	20 20	21 53	5 16	6 49	17 55	1 19	.....	3 11	81	18 00.1	-19 09	7.4
Sun Aug 14/Mon Aug 15	20 06	20 19	21 52	5 17	6 50	17 58	1 24	17 30	4 03	88	18 54.3	-19 01	7.4
Mon Aug 15/Tue Aug 16	20 10	20 18	21 50	5 18	6 51	18 00	1 29	18 19	5 00	94	19 49.5	-17 55	7.5
Tue Aug 16/Wed Aug 17	20 14	20 17	21 49	5 19	6 51	18 03	1 34	19 06	6 01	98	20 45.4	-15 49	7.5
Wed Aug 17/Thu Aug 18	20 18	20 15	21 47	5 20	6 52	18 05	1 39	19 50	.....	100	21 41.3	-12 48	7.5
Thu Aug 18/Fri Aug 19	20 22	20 14	21 46	5 21	6 53	18 08	1 44	20 32	.....	99	22 37.0	- 9 02	7.6
Fri Aug 19/Sat Aug 20	20 26	20 13	21 44	5 22	6 54	18 10	1 49	21 12	.....	96	23 32.3	- 4 44	7.6
Sat Aug 20/Sun Aug 21	20 30	20 12	21 43	5 23	6 54	18 12	1 54	21 51	.....	90	0 27.4	- 0 10	7.7
Sun Aug 21/Mon Aug 22	20 34	20 10	21 41	5 24	6 55	18 15	1 59	22 30	.....	81	1 22.6	4 22	7.7
Mon Aug 22/Tue Aug 23	20 38	20 09	21 40	5 26	6 56	18 17	2 04	23 10	.....	71	2 18.3	8 35	7.8
Tue Aug 23/Wed Aug 24	20 42	20 08	21 38	5 27	6 57	18 20	2 09	23 53	.....	60	3 14.6	12 13	7.8
Wed Aug 24/Thu Aug 25	20 46	20 07	21 36	5 28	6 57	18 22	2 14	0 39	.....	49	4 11.7	15 03	7.9
Thu Aug 25/Fri Aug 26	20 50	20 05	21 35	5 29	6 58	18 24	2 19	1 29	.....	38	5 09.3	16 55	7.9
Fri Aug 26/Sat Aug 27	20 54	20 04	21 33	5 30	6 59	18 27	2 24	2 23	.....	27	6 06.8	17 43	7.9
Sat Aug 27/Sun Aug 28	20 58	20 03	21 32	5 31	7 00	18 29	2 29	3 19	.....	18	7 03.6	17 26	8.0
Sun Aug 28/Mon Aug 29	21 02	20 01	21 30	5 32	7 00	18 31	2 34	4 18	17 33	11	7 59.1	16 09	8.0
Mon Aug 29/Tue Aug 30	21 06	20 00	21 29	5 33	7 01	18 34	2 39	5 18	18 19	5	8 52.7	13 59	8.1
Tue Aug 30/Wed Aug 31	21 09	19 59	21 27	5 34	7 02	18 36	2 44	6 17	19 01	1	9 44.3	11 08	8.1
Wed Aug 31/Thu Sep 01	21 13	19 57	21 25	5 35	7 03	18 38	2 49	.....	19 39	0	10 33.9	7 46	8.2

Calendar for OU Norman, west longitude (h.m.s) = 6 29 47, latitude (d.m) = 35 12.2
Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2016 SEPTEMBER *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:					Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Thu Sep 01/Fri Sep 02	21 17	19 56	21 24	5 35	7 03	18 41	2 54	.....	20 14	1	11 21.8	4 05	8.2
Fri Sep 02/Sat Sep 03	21 21	19 54	21 22	5 36	7 04	18 43	2 59	.....	20 47	3	12 08.4	0 16	8.2
Sat Sep 03/Sun Sep 04	21 25	19 53	21 21	5 37	7 05	18 45	3 04	.....	21 19	8	12 54.3	- 3 33	8.3
Sun Sep 04/Mon Sep 05	21 29	19 52	21 19	5 38	7 06	18 48	3 08	.....	21 51	13	13 39.9	- 7 11	8.3
Mon Sep 05/Tue Sep 06	21 33	19 50	21 17	5 39	7 06	18 50	3 13	.....	22 24	20	14 25.8	-10 33	8.4
Tue Sep 06/Wed Sep 07	21 37	19 49	21 16	5 40	7 07	18 52	3 18	.....	22 59	28	15 12.4	-13 31	8.4
Wed Sep 07/Thu Sep 08	21 41	19 47	21 14	5 41	7 08	18 55	3 23	.....	23 36	37	16 00.1	-15 57	8.4
Thu Sep 08/Fri Sep 09	21 45	19 46	21 12	5 42	7 09	18 57	3 28	.....	0 17	47	16 49.4	-17 46	8.5
Fri Sep 09/Sat Sep 10	21 49	19 45	21 11	5 43	7 09	18 59	3 33	.....	1 02	56	17 40.2	-18 51	8.5
Sat Sep 10/Sun Sep 11	21 53	19 43	21 09	5 44	7 10	19 02	3 38	.....	1 51	66	18 32.6	-19 05	8.6
Sun Sep 11/Mon Sep 12	21 57	19 42	21 08	5 45	7 11	19 04	3 42	.....	2 45	75	19 26.4	-18 23	8.6
Mon Sep 12/Tue Sep 13	22 01	19 40	21 06	5 46	7 12	19 06	3 47	16 56	3 44	84	20 21.3	-16 44	8.7
Tue Sep 13/Wed Sep 14	22 05	19 39	21 05	5 46	7 12	19 09	3 52	17 41	4 45	91	21 16.8	-14 08	8.7
Wed Sep 14/Thu Sep 15	22 09	19 37	21 03	5 47	7 13	19 11	3 57	18 24	5 50	97	22 12.8	-10 40	8.7
Thu Sep 15/Fri Sep 16	22 13	19 36	21 01	5 48	7 14	19 13	4 02	19 05	6 57	100	23 09.0	- 6 31	8.8
Fri Sep 16/Sat Sep 17	22 16	19 34	21 00	5 49	7 14	19 16	4 06	19 45	.....	100	0 05.5	- 1 55	8.8
Sat Sep 17/Sun Sep 18	22 20	19 33	20 58	5 50	7 15	19 18	4 11	20 25	.....	97	1 02.4	2 49	8.9
Sun Sep 18/Mon Sep 19	22 24	19 32	20 57	5 51	7 16	19 20	4 16	21 06	.....	91	1 59.9	7 20	8.9
Mon Sep 19/Tue Sep 20	22 28	19 30	20 55	5 52	7 17	19 23	4 21	21 50	.....	83	2 58.1	11 20	8.9
Tue Sep 20/Wed Sep 21	22 32	19 29	20 54	5 52	7 17	19 25	4 26	22 36	.....	74	3 57.0	14 30	9.0
Wed Sep 21/Thu Sep 22	22 36	19 27	20 52	5 53	7 18	19 28	4 30	23 25	.....	63	4 56.0	16 40	9.0
Thu Sep 22/Fri Sep 23	22 40	19 26	20 50	5 54	7 19	19 30	4 35	0 19	.....	52	5 54.6	17 44	9.1
Fri Sep 23/Sat Sep 24	22 44	19 24	20 49	5 55	7 20	19 32	4 40	1 15	.....	41	6 52.0	17 41	9.1
Sat Sep 24/Sun Sep 25	22 48	19 23	20 47	5 56	7 20	19 35	4 45	2 13	.....	30	7 47.8	16 36	9.1
Sun Sep 25/Mon Sep 26	22 52	19 21	20 46	5 57	7 21	19 37	4 50	3 11	.....	21	8 41.4	14 38	9.2
Mon Sep 26/Tue Sep 27	22 56	19 20	20 44	5 57	7 22	19 40	4 54	4 10	17 00	13	9 32.8	11 56	9.2
Tue Sep 27/Wed Sep 28	23 00	19 19	20 43	5 58	7 23	19 42	4 59	5 07	17 39	7	10 22.2	8 43	9.3
Wed Sep 28/Thu Sep 29	23 04	19 17	20 41	5 59	7 23	19 45	5 04	6 04	18 14	3	11 09.9	5 08	9.3
Thu Sep 29/Fri Sep 30	23 08	19 16	20 40	6 00	7 24	19 47	5 09	7 00	18 47	1	11 56.3	1 21	9.3
Fri Sep 30/Sat Oct 01	23 12	19 14	20 38	6 01	7 25	19 50	5 13	.....	19 19	0	12 42.0	- 2 27	9.4

***** 2016 OCTOBER *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:					Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Sat Oct 01/Sun Oct 02	23 16	19 13	20 37	6 01	7 26	19 52	5 18	.....	19 51	1	13 27.3	- 6 09	9.4
Sun Oct 02/Mon Oct 03	23 20	19 11	20 36	6 02	7 27	19 55	5 23	.....	20 24	4	14 12.9	- 9 36	9.4
Mon Oct 03/Tue Oct 04	23 24	19 10	20 34	6 03	7 27	19 57	5 28	.....	20 58	9	14 59.0	-12 41	9.5
Tue Oct 04/Wed Oct 05	23 27	19 09	20 33	6 04	7 28	20 00	5 32	.....	21 34	15	15 46.1	-15 16	9.5
Wed Oct 05/Thu Oct 06	23 31	19 07	20 31	6 05	7 29	20 02	5 37	.....	22 13	22	16 34.4	-17 16	9.6
Thu Oct 06/Fri Oct 07	23 35	19 06	20 30	6 05	7 30	20 05	5 42	.....	22 56	31	17 23.9	-18 34	9.6
Fri Oct 07/Sat Oct 08	23 39	19 05	20 29	6 06	7 31	20 07	5 47	.....	23 43	40	18 14.6	-19 05	9.6
Sat Oct 08/Sun Oct 09	23 43	19 03	20 27	6 07	7 31	20 10	5 51	.....	0 34	50	19 06.6	-18 44	9.7
Sun Oct 09/Mon Oct 10	23 47	19 02	20 26	6 08	7 32	20 13	5 56	.....	1 29	60	19 59.5	-17 29	9.7
Mon Oct 10/Tue Oct 11	23 51	19 00	20 25	6 09	7 33	20 15	6 01	.....	2 27	70	20 53.3	-15 19	9.7
Tue Oct 11/Wed Oct 12	23 55	18 59	20 23	6 09	7 34	20 18	6 06	16 15	3 29	79	21 47.7	-12 16	9.8
Wed Oct 12/Thu Oct 13	23 59	18 58	20 22	6 10	7 35	20 20	6 10	16 56	4 34	88	22 42.7	- 8 27	9.8
Thu Oct 13/Fri Oct 14	0 03	18 57	20 21	6 11	7 36	20 23	6 15	17 36	5 41	94	23 38.6	- 4 03	9.8
Fri Oct 14/Sat Oct 15	0 07	18 55	20 20	6 12	7 36	20 26	6 20	18 16	6 50	98	0 35.5	0 43	9.9
Sat Oct 15/Sun Oct 16	0 11	18 54	20 18	6 13	7 37	20 29	6 25	18 57	.....	100	1 33.7	5 29	9.9
Sun Oct 16/Mon Oct 17	0 15	18 53	20 17	6 13	7 38	20 31	6 29	19 40	.....	98	2 33.3	9 54	9.9
Mon Oct 17/Tue Oct 18	0 19	18 51	20 16	6 14	7 39	20 34	6 34	20 26	.....	93	3 34.2	13 35	10.0
Tue Oct 18/Wed Oct 19	0 23	18 50	20 15	6 15	7 40	20 37	6 39	21 16	.....	86	4 35.7	16 16	10.0
Wed Oct 19/Thu Oct 20	0 27	18 49	20 14	6 16	7 41	20 40	6 44	22 10	.....	77	5 37.0	17 46	10.0
Thu Oct 20/Fri Oct 21	0 31	18 48	20 12	6 17	7 42	20 42	6 48	23 07	.....	67	6 37.0	18 03	10.1
Fri Oct 21/Sat Oct 22	0 34	18 47	20 11	6 18	7 42	20 45	6 53	0 06	.....	56	7 34.9	17 11	10.1
Sat Oct 22/Sun Oct 23	0 38	18 45	20 10	6 18	7 43	20 48	6 58	1 05	.....	45	8 30.1	15 22	10.1
Sun Oct 23/Mon Oct 24	0 42	18 44	20 09	6 19	7 44	20 51	7 03	2 04	.....	35	9 22.5	12 47	10.2
Mon Oct 24/Tue Oct 25	0 46	18 43	20 08	6 20	7 45	20 54	7 07	3 02	.....	25	10 12.4	9 38	10.2
Tue Oct 25/Wed Oct 26	0 50	18 42	20 07	6 21	7 46	20 57	7 12	3 59	16 16	17	11 00.2	6 06	10.2
Wed Oct 26/Thu Oct 27	0 54	18 41	20 06	6 22	7 47	21 00	7 17	4 54	16 50	11	11 46.5	2 21	10.3
Thu Oct 27/Fri Oct 28	0 58	18 40	20 05	6 22	7 48	21 03	7 22	5 49	17 22	6	12 31.8	- 1 27	10.3
Fri Oct 28/Sat Oct 29	1 02	18 39	20 04	6 23	7 49	21 06	7 26	6 43	17 53	2	13 16.9	- 5 12	10.3
Sat Oct 29/Sun Oct 30	1 06	18 38	20 03	6 24	7 50	21 09	7 31	7 37	18 25	0	14 02.1	- 8 44	10.3
Sun Oct 30/Mon Oct 31	1 10	18 37	20 02	6 25	7 51	21 12	7 36	.....	18 59	0	14 47.8	-11 56	10.4
Mon Oct 31/Tue Nov 01	1 14	18 36	20 01	6 26	7 52	21 15	7 41	.....	19 34	2	15 34.5	-14 41	10.4

Calendar for OU Norman, west longitude (h.m.s) = 6 29 47, latitude (d.m) = 35 12.2
Rise/set times in Central time (6 hr W), uncorrected for elevation, DAYLIGHT time used, * shows clock reset.
Moon info is for local midnight, even if moon is down. Program: John Thorstensen, Dartmouth College.

***** 2016 NOVEMBER *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:					Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Tue Nov 01/Wed Nov 02	1 18	18 35	20 01	6 27	7 53	21 18	7 45	.....	20 12	5	16 22.3	-16 51	10.4
Wed Nov 02/Thu Nov 03	1 22	18 34	20 00	6 27	7 54	21 21	7 50	.....	20 53	10	17 11.2	-18 21	10.5
Thu Nov 03/Fri Nov 04	1 26	18 33	19 59	6 28	7 54	21 24	7 55	.....	21 38	17	18 01.1	-19 06	10.5
Fri Nov 04/Sat Nov 05	1 30	18 32	19 58	6 29	7 55	21 27	8 00	.....	22 27	24	18 52.0	-19 00	10.5
Sat Nov 05/Sun Nov 06*	1 34	18 31	19 57	5 30	6 56	21 30	8 05	.....	23 19	33	19 43.4	-18 03	10.5
Sun Nov 06/Mon Nov 07	2 38	17 30	18 57	5 31	6 57	21 33	8 09	.....	23 15	43	20 37.4	-16 05	10.6
Mon Nov 07/Tue Nov 08	2 42	17 29	18 56	5 32	6 58	21 37	8 14	.....	0 14	54	21 29.6	-13 24	10.6
Tue Nov 08/Wed Nov 09	2 46	17 28	18 55	5 32	6 59	21 40	8 19	.....	1 15	64	22 22.2	- 9 57	10.6
Wed Nov 09/Thu Nov 10	2 50	17 28	18 55	5 33	7 00	21 43	8 24	.....	2 19	74	23 15.7	- 5 53	10.6
Thu Nov 10/Fri Nov 11	2 53	17 27	18 54	5 34	7 01	21 47	8 28	.....	3 25	84	0 10.3	- 1 20	10.7
Fri Nov 11/Sat Nov 12	2 57	17 26	18 53	5 35	7 02	21 50	8 33	15 47	4 34	92	1 06.7	3 25	10.7
Sat Nov 12/Sun Nov 13	3 01	17 25	18 53	5 36	7 03	21 53	8 38	16 28	5 44	97	2 05.1	8 03	10.7
Sun Nov 13/Mon Nov 14	3 05	17 25	18 52	5 37	7 04	21 57	8 43	17 12	6 55	100	3 05.8	12 13	10.7
Mon Nov 14/Tue Nov 15	3 09	17 24	18 52	5 37	7 05	22 00	8 48	18 01	8 06	99	4 08.5	15 30	10.8
Tue Nov 15/Wed Nov 16	3 13	17 23	18 51	5 38	7 06	22 04	8 52	18 54	.....	95	5 12.2	17 38	10.8
Wed Nov 16/Thu Nov 17	3 17	17 23	18 51	5 39	7 07	22 07	8 57	19 51	.....	89	6 15.5	18 26	10.8
Thu Nov 17/Fri Nov 18	3 21	17 22	18 50	5 40	7 08	22 11	9 02	20 52	.....	81	7 17.0	17 57	10.8
Fri Nov 18/Sat Nov 19	3 25	17 22	18 50	5 41	7 09	22 14	9 07	21 54	.....	71	8 15.7	16 20	10.8
Sat Nov 19/Sun Nov 20	3 29	17 21	18 50	5 42	7 10	22 18	9 11	22 55	.....	61	9 10.9	13 50	10.9
Sun Nov 20/Mon Nov 21	3 33	17 21	18 49	5 42	7 11	22 21	9 16	23 55	.....	50	10 02.8	10 41	10.9
Mon Nov 21/Tue Nov 22	3 37	17 20	18 49	5 43	7 12	22 25	9 21	0 53	.....	40	10 52.0	7 07	10.9
Tue Nov 22/Wed Nov 23	3 41	17 20	18 49	5 44	7 13	22 29	9 26	1 49	.....	31	11 39.1	3 20	10.9
Wed Nov 23/Thu Nov 24	3 45	17 19	18 48	5 45	7 14	22 32	9 31	2 44	.....	22	12 24.8	- 0 32	10.9
Thu Nov 24/Fri Nov 25	3 49	17 19	18 48	5 46	7 15	22 36	9 35	3 38	.....	15	13 09.8	- 4 20	11.0
Fri Nov 25/Sat Nov 26	3 53	17 19	18 48	5 47	7 16	22 40	9 40	4 32	.....	9	13 54.8	- 7 56	11.0
Sat Nov 26/Sun Nov 27	3 57	17 19	18 48	5 47	7 17	22 44	9 45	5 26	16 00	5	14 40.3	-11 14	11.0
Sun Nov 27/Mon Nov 28	4 01	17 18	18 48	5 48	7 18	22 47	9 50	6 20	16 35	2	15 26.6	-14 07	11.0
Mon Nov 28/Tue Nov 29	4 04	17 18	18 48	5 49	7 19	22 51	9 54	7 13	17 12	0	16 14.1	-16 27	11.0
Tue Nov 29/Wed Nov 30	4 08	17 18	18 47	5 50	7 19	22 55	9 59	8 05	17 52	1	17 02.8	-18 07	11.0
Wed Nov 30/Thu Dec 01	4 12	17 18	18 47	5 50	7 20	22 59	10 04	.....	18 36	3	17 52.6	-19 02	11.1

***** 2016 DECEMBER *****

Date (eve/morn)	LMST	Sun:				LST twilight:		Moon:					Twi-Twi
	midn	set	twi.end	twi.beg	rise	eve	morn	rise	set	%illum	RA	Dec	hours
Thu Dec 01/Fri Dec 02	4 16	17 18	18 47	5 51	7 21	23 03	10 09	.....	19 23	7	18 43.2	-19 08	11.1
Fri Dec 02/Sat Dec 03	4 20	17 17	18 47	5 52	7 22	23 07	10 13	.....	20 15	12	19 34.2	-18 22	11.1
Sat Dec 03/Sun Dec 04	4 24	17 17	18 47	5 53	7 23	23 11	10 18	.....	21 09	19	20 25.3	-16 45	11.1
Sun Dec 04/Mon Dec 05	4 28	17 17	18 48	5 54	7 24	23 15	10 23	.....	22 06	28	21 16.4	-14 20	11.1
Mon Dec 05/Tue Dec 06	4 32	17 17	18 48	5 54	7 25	23 19	10 27	.....	23 05	37	22 07.5	-11 11	11.1
Tue Dec 06/Wed Dec 07	4 36	17 17	18 48	5 55	7 25	23 23	10 32	.....	0 06	48	22 58.8	- 7 25	11.1
Wed Dec 07/Thu Dec 08	4 40	17 17	18 48	5 56	7 26	23 27	10 37	.....	1 09	59	23 50.8	- 3 10	11.1
Thu Dec 08/Fri Dec 09	4 44	17 18	18 48	5 56	7 27	23 31	10 41	.....	2 13	70	0 44.1	1 23	11.1
Fri Dec 09/Sat Dec 10	4 48	17 18	18 48	5 57	7 28	23 35	10 46	.....	3 20	80	1 39.3	5 58	11.1
Sat Dec 10/Sun Dec 11	4 52	17 18	18 49	5 58	7 29	23 39	10 51	.....	4 29	88	2 37.0	10 18	11.2
Sun Dec 11/Mon Dec 12	4 56	17 18	18 49	5 58	7 29	23 44	10 55	15 46	5 39	95	3 37.4	14 02	11.2
Mon Dec 12/Tue Dec 13	5 00	17 18	18 49	5 59	7 30	23 48	11 00	16 36	6 49	99	4 40.3	16 49	11.2
Tue Dec 13/Wed Dec 14	5 04	17 19	18 49	6 00	7 31	23 52	11 04	17 31	7 55	100	5 44.4	18 22	11.2
Wed Dec 14/Thu Dec 15	5 08	17 19	18 50	6 00	7 31	23 56	11 09	18 31	.....	97	6 48.3	18 33	11.2
Thu Dec 15/Fri Dec 16	5 11	17 19	18 50	6 01	7 32	0 01	11 13	19 34	.....	93	7 50.3	17 26	11.2
Fri Dec 16/Sat Dec 17	5 15	17 20	18 50	6 02	7 33	0 05	11 18	20 38	.....	85	8 49.2	15 13	11.2
Sat Dec 17/Sun Dec 18	5 19	17 20	18 51	6 02	7 33	0 09	11 22	21 41	.....	77	9 44.6	12 12	11.2
Sun Dec 18/Mon Dec 19	5 23	17 20	18 51	6 03	7 34	0 14	11 27	22 42	.....	67	10 36.5	8 38	11.2
Mon Dec 19/Tue Dec 20	5 27	17 21	18 52	6 03	7 34	0 18	11 31	23 40	.....	57	11 25.7	4 47	11.2
Tue Dec 20/Wed Dec 21	5 31	17 21	18 52	6 04	7 35	0 23	11 36	0 37	.....	48	12 12.7	0 49	11.2
Wed Dec 21/Thu Dec 22	5 35	17 22	18 53	6 04	7 35	0 27	11 40	1 32	.....	38	12 58.5	- 3 05	11.2
Thu Dec 22/Fri Dec 23	5 39	17 22	18 53	6 05	7 36	0 32	11 45	2 26	.....	29	13 43.8	- 6 49	11.2
Fri Dec 23/Sat Dec 24	5 43	17 23	18 54	6 05	7 36	0 36	11 49	3 20	.....	21	14 29.2	-10 15	11.2
Sat Dec 24/Sun Dec 25	5 47	17 23	18 54	6 05	7 36	0 41	11 53	4 13	.....	14	15 15.3	-13 17	11.2
Sun Dec 25/Mon Dec 26	5 51	17 24	18 55	6 06	7 37	0 45	11 58	5 07	.....	8	16 02.5	-15 48	11.2
Mon Dec 26/Tue Dec 27	5 55	17 25	18 56	6 06	7 37	0 50	12 02	5 59	15 50	4	16 51.0	-17 42	11.2
Tue Dec 27/Wed Dec 28	5 59	17 25	18 56	6 07	7 37	0 54	12 06	6 51	16 33	1	17 40.7	-18 52	11.2
Wed Dec 28/Thu Dec 29	6 03	17 26	18 57	6 07	7 38	0 59	12 11	7 41	17 19	0	18 31.4	-19 12	11.2
Thu Dec 29/Fri Dec 30	6 07	17 27	18 57	6 07	7 38	1 03	12 15	8 28	18 10	1	19 22.8	-18 41	11.2
Fri Dec 30/Sat Dec 31	6 11	17 27	18 58	6 08	7 38	1 08	12 19	.....	19 04	4	20 14.3	-17 17	11.2
Sat Dec 31/Sun Jan 01	6 15	17 28	18 59	6 08	7 38	1 13	12 23	.....	20 01	8	21 05.7	-15 04	11.1