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:

***** 2024 Night-time Astronomical Calendar for CA iTel *****

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 0.0 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 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 2024, at CA iTel

Times and dates are given in local time, zone = 8 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 12	15 32	Dec 19	10 40	Dec 26	16 34	Jan 03	19 33
Jan 11	3 58	Jan 17	19 54	Jan 25	9 55	Feb 02	15 20
Feb 09	15 01	Feb 16	7 02	Feb 24	4 31	Mar 03	7 25
Mar 10	1 03	Mar 16	21 12	Mar 25	0 02	Apr 01	20 16
Apr 08	11 23	Apr 15	12 14	Apr 23	16 51	May 01	4 28
May 07	20 24	May 15	4 50	May 23	6 56	May 30	10 14
Jun 06	5 40	Jun 13	22 20	Jun 21	18 11	Jun 28	14 55
Jul 05	15 59	Jul 13	15 50	Jul 21	3 20	Jul 27	19 54
Aug 04	4 14	Aug 12	8 20	Aug 19	11 29	Aug 26	2 29
Sep 02	18 57	Sep 10	23 07	Sep 17	19 37	Sep 24	11 53
Oct 02	11 51	Oct 10	11 56	Oct 17	4 28	Oct 24	1 05
Nov 01	5 48	Nov 08	21 57	Nov 15	13 30	Nov 22	17 30
Nov 30	22 22	Dec 08	7 28	Dec 15	1 03	Dec 22	14 20
Dec 30	14 28	Jan 06	15 58	Jan 13	14 28	Jan 21	12 32

Calendar for CA iTel, west longitude (h.m.s) = 7 57 36, latitude (d.m) = 37 04.2
Rise/set times in Pacific time (8 hr W), for 1405 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.

***** 2024 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
Mon Jan 01/Tue Jan 02	6 48	16 58	18 24	5 38	7 04	1 12	12 27	22 19	.....	66	11 36.3	5 01	11.2
Tue Jan 02/Wed Jan 03	6 52	16 59	18 25	5 38	7 05	1 16	12 32	23 16	.....	57	12 18.4 - 0 34		11.2
Wed Jan 03/Thu Jan 04	6 56	17 00	18 26	5 39	7 05	1 21	12 36	0 14	.....	47	13 00.8 - 6 12		11.2
Thu Jan 04/Fri Jan 05	7 00	17 00	18 26	5 39	7 05	1 26	12 40	1 13	.....	38	13 44.7 -11 41		11.2
Fri Jan 05/Sat Jan 06	7 04	17 01	18 27	5 39	7 05	1 30	12 44	2 16	.....	29	14 31.2 -16 51		11.2
Sat Jan 06/Sun Jan 07	7 08	17 02	18 28	5 39	7 05	1 35	12 48	3 21	.....	20	15 21.5 -21 26		11.2
Sun Jan 07/Mon Jan 08	7 12	17 03	18 29	5 39	7 05	1 40	12 52	4 30	.....	12	16 16.3 -25 07		11.2
Mon Jan 08/Tue Jan 09	7 16	17 04	18 30	5 39	7 05	1 45	12 56	5 39	.....	6	17 15.5 -27 32		11.2
Tue Jan 09/Wed Jan 10	7 20	17 05	18 30	5 39	7 04	1 49	13 00	6 43	.....	2	18 18.3 -28 20		11.1
Wed Jan 10/Thu Jan 11	7 24	17 06	18 31	5 39	7 04	1 54	13 04	7 40	16 12	0	19 22.5 -27 18		11.1
Thu Jan 11/Fri Jan 12	7 28	17 07	18 32	5 39	7 04	1 59	13 08	8 27	17 25	1	20 25.5 -24 26		11.1
Fri Jan 12/Sat Jan 13	7 32	17 08	18 33	5 39	7 04	2 04	13 11	.....	18 43	5	21 25.7 -19 59		11.1
Sat Jan 13/Sun Jan 14	7 36	17 09	18 34	5 39	7 04	2 09	13 15	.....	19 59	11	22 22.2 -14 20		11.1
Sun Jan 14/Mon Jan 15	7 40	17 10	18 35	5 39	7 03	2 13	13 19	.....	21 13	19	23 15.5 - 7 57		11.1
Mon Jan 15/Tue Jan 16	7 43	17 11	18 36	5 38	7 03	2 18	13 23	.....	22 25	29	0 06.5 - 1 14		11.0
Tue Jan 16/Wed Jan 17	7 47	17 12	18 36	5 38	7 03	2 23	13 27	.....	23 35	40	0 56.5	5 25	11.0
Wed Jan 17/Thu Jan 18	7 51	17 13	18 37	5 38	7 02	2 28	13 30	.....	0 44	51	1 46.7	11 42	11.0
Thu Jan 18/Fri Jan 19	7 55	17 14	18 38	5 38	7 02	2 33	13 34	.....	1 53	62	2 38.2	17 19	11.0
Fri Jan 19/Sat Jan 20	7 59	17 15	18 39	5 37	7 02	2 38	13 38	.....	3 02	72	3 31.7	21 58	11.0
Sat Jan 20/Sun Jan 21	8 03	17 16	18 40	5 37	7 01	2 42	13 41	.....	4 10	81	4 27.4	25 26	10.9
Sun Jan 21/Mon Jan 22	8 07	17 17	18 41	5 37	7 01	2 47	13 45	.....	5 13	88	5 24.7	27 29	10.9
Mon Jan 22/Tue Jan 23	8 11	17 18	18 42	5 36	7 00	2 52	13 48	.....	6 09	94	6 22.7	28 01	10.9
Tue Jan 23/Wed Jan 24	8 15	17 19	18 43	5 36	7 00	2 57	13 52	.....	6 56	98	7 19.6	27 02	10.9
Wed Jan 24/Thu Jan 25	8 19	17 20	18 44	5 35	6 59	3 02	13 55	16 07	7 35	100	8 14.1	24 42	10.9
Thu Jan 25/Fri Jan 26	8 23	17 21	18 45	5 35	6 58	3 07	13 59	17 09	8 08	100	9 05.5	21 14	10.8
Fri Jan 26/Sat Jan 27	8 27	17 22	18 46	5 34	6 58	3 12	14 02	18 11	.....	97	9 53.7	16 53	10.8
Sat Jan 27/Sun Jan 28	8 31	17 23	18 47	5 34	6 57	3 16	14 06	19 12	.....	94	10 39.1	11 54	10.8
Sun Jan 28/Mon Jan 29	8 35	17 24	18 48	5 33	6 56	3 21	14 09	20 10	.....	88	11 22.4	6 31	10.8
Mon Jan 29/Tue Jan 30	8 39	17 25	18 48	5 33	6 56	3 26	14 12	21 07	.....	82	12 04.6	0 55	10.7
Tue Jan 30/Wed Jan 31	8 43	17 26	18 49	5 32	6 55	3 31	14 16	22 04	.....	74	12 46.7 - 4 44		10.7
Wed Jan 31/Thu Feb 01	8 47	17 28	18 50	5 31	6 54	3 36	14 19	23 02	.....	65	13 29.7 -10 15		10.7

***** 2024 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
Thu Feb 01/Fri Feb 02	8 50	17 29	18 51	5 31	6 53	3 41	14 22	0 02	.....	56	14 14.7 -15 29		10.7
Fri Feb 02/Sat Feb 03	8 54	17 30	18 52	5 30	6 52	3 46	14 25	1 05	.....	46	15 02.7 -20 12		10.6
Sat Feb 03/Sun Feb 04	8 58	17 31	18 53	5 29	6 52	3 51	14 29	2 10	.....	36	15 54.8 -24 10		10.6
Sun Feb 04/Mon Feb 05	9 02	17 32	18 54	5 29	6 51	3 56	14 32	3 17	.....	26	16 51.3 -27 02		10.6
Mon Feb 05/Tue Feb 06	9 06	17 33	18 55	5 28	6 50	4 01	14 35	4 23	.....	17	17 51.8 -28 27		10.5
Tue Feb 06/Wed Feb 07	9 10	17 34	18 56	5 27	6 49	4 05	14 38	5 23	.....	10	18 55.0 -28 10		10.5
Wed Feb 07/Thu Feb 08	9 14	17 35	18 57	5 26	6 48	4 10	14 41	6 15	.....	4	19 58.6 -26 01		10.5
Thu Feb 08/Fri Feb 09	9 18	17 36	18 58	5 25	6 47	4 15	14 44	6 58	16 13	1	21 00.6 -22 07		10.5
Fri Feb 09/Sat Feb 10	9 22	17 37	18 59	5 24	6 46	4 20	14 47	7 35	17 32	0	21 59.5 -16 47		10.4
Sat Feb 10/Sun Feb 11	9 26	17 38	19 00	5 23	6 45	4 25	14 50	.....	18 50	3	22 55.3 -10 25		10.4
Sun Feb 11/Mon Feb 12	9 30	17 39	19 01	5 22	6 44	4 30	14 53	.....	20 05	8	23 48.6 - 3 32		10.4
Mon Feb 12/Tue Feb 13	9 34	17 40	19 02	5 21	6 43	4 35	14 56	.....	21 19	16	0 40.4	3 26	10.3
Tue Feb 13/Wed Feb 14	9 38	17 41	19 03	5 20	6 42	4 40	14 59	.....	22 31	25	1 31.9	10 04	10.3
Wed Feb 14/Thu Feb 15	9 42	17 42	19 04	5 19	6 40	4 45	15 02	.....	23 43	35	2 24.2	16 03	10.3
Thu Feb 15/Fri Feb 16	9 46	17 44	19 05	5 18	6 39	4 49	15 05	.....	0 54	46	3 17.9	21 03	10.2
Fri Feb 16/Sat Feb 17	9 50	17 45	19 06	5 17	6 38	4 54	15 08	.....	2 03	57	4 13.5	24 50	10.2
Sat Feb 17/Sun Feb 18	9 54	17 46	19 06	5 16	6 37	4 59	15 11	.....	3 08	67	5 10.5	27 13	10.2
Sun Feb 18/Mon Feb 19	9 58	17 47	19 07	5 15	6 36	5 04	15 13	.....	4 06	76	6 08.1	28 05	10.1
Mon Feb 19/Tue Feb 20	10 01	17 48	19 08	5 14	6 35	5 09	15 16	.....	4 55	84	7 04.8	27 28	10.1
Tue Feb 20/Wed Feb 21	10 05	17 49	19 09	5 13	6 33	5 14	15 19	.....	5 36	91	7 59.4	25 27	10.1
Wed Feb 21/Thu Feb 22	10 09	17 50	19 10	5 12	6 32	5 19	15 22	.....	6 10	96	8 51.1	22 16	10.0
Thu Feb 22/Fri Feb 23	10 13	17 51	19 11	5 10	6 31	5 24	15 25	.....	6 39	99	9 39.8	18 07	10.0
Fri Feb 23/Sat Feb 24	10 17	17 52	19 12	5 09	6 30	5 29	15 27	17 04	7 03	100	10 25.7	13 16	10.0
Sat Feb 24/Sun Feb 25	10 21	17 53	19 13	5 08	6 28	5 33	15 30	18 03	7 26	99	11 09.5	7 56	9.9
Sun Feb 25/Mon Feb 26	10 25	17 54	19 14	5 07	6 27	5 38	15 33	19 00	.....	97	11 52.1	2 19	9.9
Mon Feb 26/Tue Feb 27	10 29	17 55	19 15	5 05	6 26	5 43	15 35	19 57	.....	93	12 34.2 - 3 23		9.8
Tue Feb 27/Wed Feb 28	10 33	17 56	19 16	5 04	6 24	5 48	15 38	20 55	.....	87	13 16.9 - 9 00		9.8
Wed Feb 28/Thu Feb 29	10 37	17 57	19 17	5 03	6 23	5 53	15 41	21 53	.....	80	14 01.2 -14 21		9.8
Thu Feb 29/Fri Mar 01	10 41	17 58	19 18	5 01	6 22	5 58	15 43	22 54	.....	72	14 48.0 -19 13		9.7

Calendar for CA iTel, west longitude (h.m.s) = 7 57 36, latitude (d.m) = 37 04.2
Rise/set times in Pacific time (8 hr W), for 1405 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.

***** 2024 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
Fri Mar 01/Sat Mar 02	10 45	17 59	19 19	5 00	6 20	6 03	15 46	23 58	.....	62	15 38.1	-23 23	9.7
Sat Mar 02/Sun Mar 03	10 49	17 59	19 20	4 59	6 19	6 08	15 48	1 03	.....	52	16 32.1	-26 34	9.6
Sun Mar 03/Mon Mar 04	10 53	18 00	19 21	4 57	6 17	6 13	15 51	2 07	.....	42	17 30.0	-28 28	9.6
Mon Mar 04/Tue Mar 05	10 57	18 01	19 22	4 56	6 16	6 18	15 53	3 08	.....	32	18 30.9	-28 48	9.6
Tue Mar 05/Wed Mar 06	11 01	18 02	19 23	4 54	6 15	6 22	15 56	4 02	.....	22	19 33.0	-27 23	9.5
Wed Mar 06/Thu Mar 07	11 05	18 03	19 24	4 53	6 13	6 27	15 58	4 49	.....	13	20 34.5	-24 14	9.5
Thu Mar 07/Fri Mar 08	11 08	18 04	19 24	4 52	6 12	6 32	16 01	5 27	.....	6	21 34.0	-19 30	9.5
Fri Mar 08/Sat Mar 09	11 12	18 05	19 25	4 50	6 10	6 37	16 03	6 01	.....	2	22 30.8	-13 32	9.4
Sat Mar 09/Sun Mar 10*	11 16	18 06	19 26	5 49	7 09	6 42	16 06	7 31	17 36	0	23 25.4	- 6 44	9.4
Sun Mar 10/Mon Mar 11	10 20	19 07	20 27	5 47	7 07	6 47	16 08	.....	19 52	1	0 15.6	0 06	9.3
Mon Mar 11/Tue Mar 12	10 24	19 08	20 28	5 46	7 06	6 52	16 11	.....	21 07	5	1 08.4	7 10	9.3
Tue Mar 12/Wed Mar 13	10 28	19 09	20 29	5 44	7 05	6 57	16 13	.....	22 22	12	2 01.9	13 42	9.2
Wed Mar 13/Thu Mar 14	10 32	19 10	20 30	5 43	7 03	7 02	16 16	.....	23 36	20	2 56.8	19 20	9.2
Thu Mar 14/Fri Mar 15	10 36	19 11	20 31	5 41	7 02	7 07	16 18	.....	0 49	30	3 53.5	23 44	9.2
Fri Mar 15/Sat Mar 16	10 40	19 12	20 32	5 40	7 00	7 12	16 20	.....	1 58	40	4 51.7	26 41	9.1
Sat Mar 16/Sun Mar 17	10 44	19 12	20 33	5 38	6 59	7 16	16 23	.....	3 00	51	5 50.3	28 04	9.1
Sun Mar 17/Mon Mar 18	10 48	19 13	20 34	5 36	6 57	7 21	16 25	.....	3 53	61	6 48.0	27 52	9.0
Mon Mar 18/Tue Mar 19	10 52	19 14	20 35	5 35	6 56	7 26	16 27	.....	4 37	70	7 43.5	26 14	9.0
Tue Mar 19/Wed Mar 20	10 56	19 15	20 36	5 33	6 54	7 31	16 30	.....	5 13	79	8 36.1	23 21	9.0
Wed Mar 20/Thu Mar 21	11 00	19 16	20 37	5 32	6 53	7 36	16 32	.....	5 43	86	9 25.4	19 28	8.9
Thu Mar 21/Fri Mar 22	11 04	19 17	20 38	5 30	6 51	7 41	16 34	.....	6 08	92	10 11.9	14 48	8.9
Fri Mar 22/Sat Mar 23	11 07	19 18	20 39	5 28	6 50	7 46	16 37	16 56	6 31	96	10 56.1	9 35	8.8
Sat Mar 23/Sun Mar 24	11 11	19 19	20 40	5 27	6 48	7 51	16 39	17 54	6 52	99	11 38.9	4 01	8.8
Sun Mar 24/Mon Mar 25	11 15	19 20	20 41	5 25	6 47	7 56	16 41	18 51	7 13	100	12 21.1	- 1 43	8.7
Mon Mar 25/Tue Mar 26	11 19	19 21	20 42	5 24	6 45	8 01	16 44	19 48	.....	99	13 03.8	- 7 25	8.7
Tue Mar 26/Wed Mar 27	11 23	19 21	20 43	5 22	6 44	8 06	16 46	20 47	.....	96	13 47.7	-12 55	8.6
Wed Mar 27/Thu Mar 28	11 27	19 22	20 44	5 20	6 42	8 11	16 48	21 47	.....	92	14 33.9	-18 00	8.6
Thu Mar 28/Fri Mar 29	11 31	19 23	20 45	5 19	6 41	8 16	16 51	22 50	.....	85	15 23.0	-22 24	8.6
Fri Mar 29/Sat Mar 30	11 35	19 24	20 46	5 17	6 39	8 21	16 53	23 54	.....	77	16 15.7	-25 54	8.5
Sat Mar 30/Sun Mar 31	11 39	19 25	20 48	5 15	6 38	8 26	16 55	0 58	.....	68	17 11.8	-28 11	8.5
Sun Mar 31/Mon Apr 01	11 43	19 26	20 49	5 14	6 36	8 31	16 57	1 59	.....	58	18 10.7	-29 01	8.4

***** 2024 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
Mon Apr 01/Tue Apr 02	11 47	19 27	20 50	5 12	6 35	8 36	17 00	2 54	.....	48	19 11.0	-28 14	8.4
Tue Apr 02/Wed Apr 03	11 51	19 28	20 51	5 10	6 33	8 41	17 02	3 42	.....	37	20 11.1	-25 47	8.3
Wed Apr 03/Thu Apr 04	11 55	19 29	20 52	5 09	6 32	8 46	17 04	4 22	.....	26	21 09.5	-21 47	8.3
Thu Apr 04/Fri Apr 05	11 59	19 29	20 53	5 07	6 30	8 51	17 07	4 57	.....	17	22 05.7	-16 27	8.2
Fri Apr 05/Sat Apr 06	12 03	19 30	20 54	5 05	6 29	8 56	17 09	5 27	.....	9	22 59.9	-10 08	8.2
Sat Apr 06/Sun Apr 07	12 07	19 31	20 55	5 04	6 28	9 01	17 11	5 56	17 24	3	23 52.7	- 3 12	8.1
Sun Apr 07/Mon Apr 08	12 11	19 32	20 56	5 02	6 26	9 06	17 13	6 24	18 38	0	0 45.2	3 55	8.1
Mon Apr 08/Tue Apr 09	12 14	19 33	20 57	5 00	6 25	9 11	17 16	6 53	19 54	0	1 38.5	10 46	8.0
Tue Apr 09/Wed Apr 10	12 18	19 34	20 59	4 59	6 23	9 17	17 18	.....	21 10	3	2 33.5	16 56	8.0
Wed Apr 10/Thu Apr 11	12 22	19 35	21 00	4 57	6 22	9 22	17 20	.....	22 26	9	3 30.7	21 59	8.0
Thu Apr 11/Fri Apr 12	12 26	19 36	21 01	4 55	6 20	9 27	17 22	.....	23 40	16	4 29.7	25 37	7.9
Fri Apr 12/Sat Apr 13	12 30	19 37	21 02	4 54	6 19	9 32	17 25	.....	0 47	25	5 29.8	27 37	7.9
Sat Apr 13/Sun Apr 14	12 34	19 38	21 03	4 52	6 18	9 37	17 27	.....	1 46	34	6 29.3	27 58	7.8
Sun Apr 14/Mon Apr 15	12 38	19 38	21 04	4 50	6 16	9 42	17 29	.....	2 34	44	7 26.5	26 44	7.8
Mon Apr 15/Tue Apr 16	12 42	19 39	21 06	4 49	6 15	9 47	17 32	.....	3 14	54	8 20.6	24 11	7.7
Tue Apr 16/Wed Apr 17	12 46	19 40	21 07	4 47	6 13	9 52	17 34	.....	3 46	64	9 11.1	20 33	7.7
Wed Apr 17/Thu Apr 18	12 50	19 41	21 08	4 45	6 12	9 57	17 36	.....	4 12	73	9 58.4	16 05	7.6
Thu Apr 18/Fri Apr 19	12 54	19 42	21 09	4 44	6 11	10 03	17 38	.....	4 36	81	10 43.1	11 01	7.6
Fri Apr 19/Sat Apr 20	12 58	19 43	21 10	4 42	6 10	10 08	17 41	.....	4 58	88	11 26.1	5 33	7.5
Sat Apr 20/Sun Apr 21	13 02	19 44	21 12	4 40	6 08	10 13	17 43	.....	5 19	93	12 08.3	- 0 09	7.5
Sun Apr 21/Mon Apr 22	13 06	19 45	21 13	4 39	6 07	10 18	17 45	17 41	5 40	97	12 50.9	- 5 54	7.4
Mon Apr 22/Tue Apr 23	13 10	19 46	21 14	4 37	6 06	10 23	17 48	18 39	6 03	100	13 34.6	-11 31	7.4
Tue Apr 23/Wed Apr 24	13 14	19 47	21 15	4 36	6 04	10 28	17 50	19 40	6 29	100	14 20.6	-16 47	7.3
Wed Apr 24/Thu Apr 25	13 18	19 47	21 17	4 34	6 03	10 34	17 52	20 42	.....	98	15 09.5	-21 27	7.3
Thu Apr 25/Fri Apr 26	13 21	19 48	21 18	4 32	6 02	10 39	17 55	21 47	.....	94	16 01.9	-25 15	7.2
Fri Apr 26/Sat Apr 27	13 25	19 49	21 19	4 31	6 01	10 44	17 57	22 51	.....	89	16 57.9	-27 53	7.2
Sat Apr 27/Sun Apr 28	13 29	19 50	21 20	4 29	5 59	10 49	17 59	23 54	.....	81	17 56.7	-29 05	7.2
Sun Apr 28/Mon Apr 29	13 33	19 51	21 22	4 28	5 58	10 54	18 02	0 50	.....	73	18 56.8	-28 41	7.1
Mon Apr 29/Tue Apr 30	13 37	19 52	21 23	4 26	5 57	11 00	18 04	1 40	.....	62	19 56.5	-26 39	7.1
Tue Apr 30/Wed May 01	13 41	19 53	21 24	4 25	5 56	11 05	18 07	2 21	.....	52	20 54.4	-23 05	7.0

Calendar for CA iTel, west longitude (h.m.s) = 7 57 36, latitude (d.m) = 37 04.2
Rise/set times in Pacific time (8 hr W), for 1405 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.

***** 2024 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
Wed May 01/Thu May 02	13 45	19 54	21 25	4 23	5 55	11 10	18 09	2 56	.....	40	21 49.9	-18 12	7.0
Thu May 02/Fri May 03	13 49	19 55	21 27	4 22	5 54	11 15	18 12	3 27	.....	30	22 43.0	-12 20	6.9
Fri May 03/Sat May 04	13 53	19 56	21 28	4 20	5 53	11 21	18 14	3 55	.....	20	23 34.6	- 5 46	6.9
Sat May 04/Sun May 05	13 57	19 57	21 29	4 19	5 52	11 26	18 17	4 22	.....	11	0 25.7	1 07	6.8
Sun May 05/Mon May 06	14 01	19 57	21 31	4 17	5 51	11 31	18 19	4 50	.....	5	1 17.5	7 58	6.8
Mon May 06/Tue May 07	14 05	19 58	21 32	4 16	5 50	11 36	18 22	5 21	18 43	1	2 10.9	14 20	6.7
Tue May 07/Wed May 08	14 09	19 59	21 33	4 15	5 49	11 42	18 24	5 56	19 59	0	3 06.9	19 51	6.7
Wed May 08/Thu May 09	14 13	20 00	21 34	4 13	5 48	11 47	18 27	.....	21 15	2	4 05.5	24 06	6.6
Thu May 09/Fri May 10	14 17	20 01	21 36	4 12	5 47	11 52	18 29	.....	22 27	6	5 05.9	26 47	6.6
Fri May 10/Sat May 11	14 21	20 02	21 37	4 11	5 46	11 57	18 32	.....	23 31	12	6 06.7	27 46	6.6
Sat May 11/Sun May 12	14 25	20 03	21 38	4 09	5 45	12 02	18 35	.....	0 26	20	7 05.9	27 06	6.5
Sun May 12/Mon May 13	14 29	20 04	21 40	4 08	5 44	12 08	18 37	.....	1 10	29	8 02.1	24 57	6.5
Mon May 13/Tue May 14	14 32	20 05	21 41	4 07	5 43	12 13	18 40	.....	1 45	38	8 54.4	21 36	6.4
Tue May 14/Wed May 15	14 36	20 05	21 42	4 06	5 42	12 18	18 43	.....	2 14	48	9 43.0	17 21	6.4
Wed May 15/Thu May 16	14 40	20 06	21 43	4 04	5 41	12 23	18 45	.....	2 39	57	10 28.6	12 27	6.4
Thu May 16/Fri May 17	14 44	20 07	21 45	4 03	5 41	12 28	18 48	.....	3 02	67	11 12.0	7 06	6.3
Fri May 17/Sat May 18	14 48	20 08	21 46	4 02	5 40	12 34	18 51	.....	3 23	75	11 54.3	1 30	6.3
Sat May 18/Sun May 19	14 52	20 09	21 47	4 01	5 39	12 39	18 54	.....	3 44	83	12 36.5	- 4 13	6.2
Sun May 19/Mon May 20	14 56	20 10	21 48	4 00	5 38	12 44	18 57	.....	4 06	90	13 19.7	- 9 53	6.2
Mon May 20/Tue May 21	15 00	20 10	21 49	3 59	5 38	12 49	19 00	.....	4 31	95	14 05.0	-15 17	6.2
Tue May 21/Wed May 22	15 04	20 11	21 51	3 58	5 37	12 54	19 02	18 31	5 00	98	14 53.3	-20 11	6.1
Wed May 22/Thu May 23	15 08	20 12	21 52	3 57	5 37	12 59	19 05	19 36	5 35	100	15 45.3	-24 19	6.1
Thu May 23/Fri May 24	15 12	20 13	21 53	3 56	5 36	13 04	19 08	20 41	6 18	99	16 41.3	-27 21	6.0
Fri May 24/Sat May 25	15 16	20 14	21 54	3 55	5 35	13 10	19 11	21 46	.....	96	17 40.5	-28 58	6.0
Sat May 25/Sun May 26	15 20	20 14	21 55	3 54	5 35	13 15	19 14	22 45	.....	91	18 41.6	-28 58	6.0
Sun May 26/Mon May 27	15 24	20 15	21 56	3 53	5 34	13 20	19 17	23 37	.....	84	19 42.5	-27 16	5.9
Mon May 27/Tue May 28	15 28	20 16	21 57	3 52	5 34	13 25	19 21	0 21	.....	76	20 41.5	-24 00	5.9
Tue May 28/Wed May 29	15 32	20 17	21 58	3 52	5 33	13 30	19 24	0 58	.....	65	21 37.6	-19 22	5.9
Wed May 29/Thu May 30	15 36	20 17	21 59	3 51	5 33	13 35	19 27	1 29	.....	54	22 30.8	-13 44	5.9
Thu May 30/Fri May 31	15 39	20 18	22 00	3 50	5 33	13 40	19 30	1 57	.....	43	23 21.9	- 7 24	5.8
Fri May 31/Sat Jun 01	15 43	20 19	22 01	3 49	5 32	13 45	19 33	2 24	.....	32	0 11.9	- 0 44	5.8

***** 2024 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
Sat Jun 01/Sun Jun 02	15 47	20 19	22 02	3 49	5 32	13 49	19 37	2 50	.....	22	1 02.1	5 58	5.8
Sun Jun 02/Mon Jun 03	15 51	20 20	22 03	3 48	5 32	13 54	19 40	3 19	.....	13	1 53.6	12 20	5.7
Mon Jun 03/Tue Jun 04	15 55	20 21	22 04	3 48	5 31	13 59	19 44	3 51	17 38	6	2 47.5	18 01	5.7
Tue Jun 04/Wed Jun 05	15 59	20 21	22 05	3 47	5 31	14 04	19 47	4 30	18 52	2	3 44.2	22 37	5.7
Wed Jun 05/Thu Jun 06	16 03	20 22	22 06	3 47	5 31	14 09	19 51	5 16	20 06	0	4 43.5	25 49	5.7
Thu Jun 06/Fri Jun 07	16 07	20 22	22 07	3 46	5 31	14 13	19 54	6 10	21 14	1	5 44.1	27 24	5.7
Fri Jun 07/Sat Jun 08	16 11	20 23	22 07	3 46	5 31	14 18	19 58	.....	22 13	4	6 44.1	27 18	5.6
Sat Jun 08/Sun Jun 09	16 15	20 23	22 08	3 46	5 30	14 23	20 01	.....	23 02	9	7 41.8	25 37	5.6
Sun Jun 09/Mon Jun 10	16 19	20 24	22 09	3 45	5 30	14 27	20 05	.....	23 42	15	8 35.9	22 37	5.6
Mon Jun 10/Tue Jun 11	16 23	20 24	22 09	3 45	5 30	14 32	20 09	.....	0 14	23	9 26.2	18 37	5.6
Tue Jun 11/Wed Jun 12	16 27	20 25	22 10	3 45	5 30	14 37	20 12	.....	0 41	32	10 12.9	13 53	5.6
Wed Jun 12/Thu Jun 13	16 31	20 25	22 11	3 45	5 30	14 41	20 16	.....	1 04	41	10 57.1	8 39	5.6
Thu Jun 13/Fri Jun 14	16 35	20 26	22 11	3 45	5 30	14 46	20 20	.....	1 26	50	11 39.5	3 08	5.6
Fri Jun 14/Sat Jun 15	16 39	20 26	22 12	3 45	5 30	14 50	20 24	.....	1 47	60	12 21.5	- 2 31	5.5
Sat Jun 15/Sun Jun 16	16 43	20 26	22 12	3 45	5 30	14 54	20 28	.....	2 08	69	13 03.9	- 8 10	5.5
Sun Jun 16/Mon Jun 17	16 47	20 27	22 13	3 45	5 30	14 59	20 32	.....	2 32	77	13 48.1	-13 36	5.5
Mon Jun 17/Tue Jun 18	16 50	20 27	22 13	3 45	5 31	15 03	20 36	.....	2 59	85	14 35.0	-18 40	5.5
Tue Jun 18/Wed Jun 19	16 54	20 27	22 13	3 45	5 31	15 07	20 40	.....	3 32	92	15 25.6	-23 04	5.5
Wed Jun 19/Thu Jun 20	16 58	20 28	22 13	3 45	5 31	15 12	20 44	18 27	4 11	96	16 20.5	-26 31	5.5
Thu Jun 20/Fri Jun 21	17 02	20 28	22 14	3 45	5 31	15 16	20 48	19 33	5 00	99	17 19.5	-28 39	5.5
Fri Jun 21/Sat Jun 22	17 06	20 28	22 14	3 46	5 31	15 20	20 52	20 35	5 59	100	18 21.3	-29 11	5.5
Sat Jun 22/Sun Jun 23	17 10	20 28	22 14	3 46	5 32	15 24	20 57	21 31	.....	98	19 23.9	-27 57	5.5
Sun Jun 23/Mon Jun 24	17 14	20 28	22 14	3 46	5 32	15 28	21 01	22 19	.....	93	20 25.1	-25 00	5.5
Mon Jun 24/Tue Jun 25	17 18	20 28	22 14	3 47	5 32	15 32	21 05	22 58	.....	87	21 23.3	-20 34	5.5
Tue Jun 25/Wed Jun 26	17 22	20 28	22 14	3 47	5 33	15 36	21 10	23 32	.....	78	22 18.3	-15 01	5.5
Wed Jun 26/Thu Jun 27	17 26	20 29	22 14	3 48	5 33	15 40	21 14	0 01	.....	68	23 10.5	- 8 43	5.6
Thu Jun 27/Fri Jun 28	17 30	20 29	22 14	3 48	5 33	15 44	21 19	0 27	.....	57	0 00.9	- 2 02	5.6
Fri Jun 28/Sat Jun 29	17 34	20 29	22 14	3 49	5 34	15 47	21 23	0 54	.....	45	0 50.7	4 39	5.6
Sat Jun 29/Sun Jun 30	17 38	20 28	22 14	3 49	5 34	15 51	21 28	1 21	.....	34	1 41.3	11 02	5.6
Sun Jun 30/Mon Jul 01	17 42	20 28	22 13	3 50	5 35	15 55	21 32	1 51	.....	24	2 33.7	16 47	5.6

Calendar for CA iTel, west longitude (h.m.s) = 7 57 36, latitude (d.m) = 37 04.2
Rise/set times in Pacific time (8 hr W), for 1405 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.

***** 2024 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
Mon Jul 01/Tue Jul 02	17 46	20 28	22 13	3 51	5 35	15 58	21 37	2 26	.....	15	3 28.6	21 35	5.6
Tue Jul 02/Wed Jul 03	17 50	20 28	22 13	3 51	5 36	16 02	21 41	3 08	17 51	8	4 26.1	25 05	5.6
Wed Jul 03/Thu Jul 04	17 54	20 28	22 12	3 52	5 36	16 06	21 46	3 59	19 00	3	5 25.4	27 05	5.7
Thu Jul 04/Fri Jul 05	17 57	20 28	22 12	3 53	5 37	16 09	21 51	4 57	20 02	1	6 25.1	27 27	5.7
Fri Jul 05/Sat Jul 06	18 01	20 28	22 12	3 54	5 37	16 13	21 56	6 01	20 54	0	7 23.2	26 13	5.7
Sat Jul 06/Sun Jul 07	18 05	20 27	22 11	3 54	5 38	16 16	22 00	.....	21 37	2	8 18.3	23 35	5.7
Sun Jul 07/Mon Jul 08	18 09	20 27	22 10	3 55	5 39	16 19	22 05	.....	22 12	6	9 09.7	19 51	5.7
Mon Jul 08/Tue Jul 09	18 13	20 27	22 10	3 56	5 39	16 23	22 10	.....	22 41	11	9 57.5	15 17	5.8
Tue Jul 09/Wed Jul 10	18 17	20 26	22 09	3 57	5 40	16 26	22 15	.....	23 06	18	10 42.4	10 10	5.8
Wed Jul 10/Thu Jul 11	18 21	20 26	22 09	3 58	5 41	16 29	22 20	.....	23 28	26	11 25.2	4 43	5.8
Thu Jul 11/Fri Jul 12	18 25	20 26	22 08	3 59	5 41	16 33	22 25	.....	23 49	34	12 07.0	- 0 53	5.9
Fri Jul 12/Sat Jul 13	18 29	20 25	22 07	4 00	5 42	16 36	22 30	.....	0 11	43	12 48.8	- 6 30	5.9
Sat Jul 13/Sun Jul 14	18 33	20 25	22 06	4 01	5 43	16 39	22 35	.....	0 33	53	13 31.8	-11 57	5.9
Sun Jul 14/Mon Jul 15	18 37	20 24	22 05	4 02	5 43	16 42	22 40	.....	0 58	62	14 16.9	-17 05	5.9
Mon Jul 15/Tue Jul 16	18 41	20 24	22 05	4 03	5 44	16 45	22 45	.....	1 28	72	15 05.4	-21 41	6.0
Tue Jul 16/Wed Jul 17	18 45	20 23	22 04	4 04	5 45	16 48	22 50	.....	2 04	80	15 58.0	-25 28	6.0
Wed Jul 17/Thu Jul 18	18 49	20 23	22 03	4 05	5 45	16 51	22 55	.....	2 48	88	16 55.1	-28 06	6.0
Thu Jul 18/Fri Jul 19	18 53	20 22	22 02	4 06	5 46	16 54	23 00	18 20	3 43	94	17 56.0	-29 16	6.1
Fri Jul 19/Sat Jul 20	18 57	20 21	22 01	4 08	5 47	16 57	23 05	19 19	4 48	98	18 59.1	-28 41	6.1
Sat Jul 20/Sun Jul 21	19 01	20 21	22 00	4 09	5 48	17 00	23 10	20 11	6 00	100	20 02.0	-26 17	6.1
Sun Jul 21/Mon Jul 22	19 05	20 20	21 59	4 10	5 49	17 03	23 15	20 55	.....	99	21 02.9	-22 13	6.2
Mon Jul 22/Tue Jul 23	19 08	20 19	21 58	4 11	5 49	17 06	23 20	21 31	.....	95	22 00.6	-16 47	6.2
Tue Jul 23/Wed Jul 24	19 12	20 19	21 56	4 12	5 50	17 08	23 25	22 02	.....	89	22 55.2	-10 26	6.3
Wed Jul 24/Thu Jul 25	19 16	20 18	21 55	4 13	5 51	17 11	23 30	22 30	.....	80	23 47.4	- 3 36	6.3
Thu Jul 25/Fri Jul 26	19 20	20 17	21 54	4 15	5 52	17 14	23 36	22 57	.....	70	0 38.6	3 19	6.3
Fri Jul 26/Sat Jul 27	19 24	20 16	21 53	4 16	5 53	17 17	23 41	23 24	.....	59	1 29.8	9 55	6.4
Sat Jul 27/Sun Jul 28	19 28	20 15	21 52	4 17	5 53	17 19	23 46	23 53	.....	48	2 22.2	15 53	6.4
Sun Jul 28/Mon Jul 29	19 32	20 14	21 50	4 18	5 54	17 22	23 51	0 27	.....	37	3 16.5	20 54	6.5
Mon Jul 29/Tue Jul 30	19 36	20 13	21 49	4 19	5 55	17 25	23 56	1 06	.....	26	4 13.2	24 39	6.5
Tue Jul 30/Wed Jul 31	19 40	20 13	21 48	4 21	5 56	17 27	0 01	1 53	.....	18	5 11.6	26 57	6.5
Wed Jul 31/Thu Aug 01	19 44	20 12	21 46	4 22	5 57	17 30	0 07	2 48	17 55	10	6 10.5	27 38	6.6

***** 2024 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
Thu Aug 01/Fri Aug 02	19 48	20 11	21 45	4 23	5 58	17 32	0 12	3 50	18 49	5	7 08.3	26 46	6.6
Fri Aug 02/Sat Aug 03	19 52	20 10	21 44	4 24	5 58	17 35	0 17	4 54	19 35	1	8 03.6	24 28	6.7
Sat Aug 03/Sun Aug 04	19 56	20 09	21 42	4 26	5 59	17 38	0 22	5 59	20 12	0	8 55.5	21 00	6.7
Sun Aug 04/Mon Aug 05	20 00	20 08	21 41	4 27	6 00	17 40	0 27	.....	20 43	1	9 44.0	16 38	6.8
Mon Aug 05/Tue Aug 06	20 04	20 06	21 39	4 28	6 01	17 43	0 32	.....	21 08	3	10 29.4	11 39	6.8
Tue Aug 06/Wed Aug 07	20 08	20 05	21 38	4 29	6 02	17 45	0 38	.....	21 31	7	11 12.5	6 15	6.9
Wed Aug 07/Thu Aug 08	20 12	20 04	21 36	4 30	6 03	17 47	0 43	.....	21 53	13	11 54.3	0 41	6.9
Thu Aug 08/Fri Aug 09	20 15	20 03	21 35	4 32	6 03	17 50	0 48	.....	22 14	20	12 35.8	- 4 56	6.9
Fri Aug 09/Sat Aug 10	20 19	20 02	21 33	4 33	6 04	17 52	0 53	.....	22 35	28	13 17.8	-10 24	7.0
Sat Aug 10/Sun Aug 11	20 23	20 01	21 32	4 34	6 05	17 55	0 58	.....	22 59	37	14 01.5	-15 35	7.0
Sun Aug 11/Mon Aug 12	20 27	20 00	21 30	4 35	6 06	17 57	1 03	.....	23 26	46	14 47.9	-20 18	7.1
Mon Aug 12/Tue Aug 13	20 31	19 58	21 29	4 37	6 07	18 00	1 09	.....	23 59	56	15 37.8	-24 18	7.1
Tue Aug 13/Wed Aug 14	20 35	19 57	21 27	4 38	6 08	18 02	1 14	.....	0 38	66	16 32.0	-27 20	7.2
Wed Aug 14/Thu Aug 15	20 39	19 56	21 26	4 39	6 09	18 04	1 19	.....	1 27	75	17 30.3	-29 04	7.2
Thu Aug 15/Fri Aug 16	20 43	19 55	21 24	4 40	6 09	18 07	1 24	.....	2 27	84	18 31.6	-29 12	7.3
Fri Aug 16/Sat Aug 17	20 47	19 53	21 22	4 41	6 10	18 09	1 29	17 59	3 36	91	19 34.3	-27 34	7.3
Sat Aug 17/Sun Aug 18	20 51	19 52	21 21	4 43	6 11	18 11	1 34	18 46	4 50	97	20 36.3	-24 09	7.4
Sun Aug 18/Mon Aug 19	20 55	19 51	21 19	4 44	6 12	18 14	1 39	19 26	6 07	99	21 36.0	-19 10	7.4
Mon Aug 19/Tue Aug 20	20 59	19 50	21 17	4 45	6 13	18 16	1 44	20 00	.....	99	22 33.0	-12 58	7.5
Tue Aug 20/Wed Aug 21	21 03	19 48	21 16	4 46	6 14	18 18	1 50	20 30	.....	96	23 27.7	- 6 02	7.5
Wed Aug 21/Thu Aug 22	21 07	19 47	21 14	4 47	6 14	18 20	1 55	20 58	.....	91	0 20.9	1 11	7.6
Thu Aug 22/Fri Aug 23	21 11	19 45	21 12	4 48	6 15	18 23	2 00	21 25	.....	82	1 13.8	8 13	7.6
Fri Aug 23/Sat Aug 24	21 15	19 44	21 11	4 49	6 16	18 25	2 05	21 54	.....	73	2 07.6	14 38	7.6
Sat Aug 24/Sun Aug 25	21 19	19 43	21 09	4 51	6 17	18 27	2 10	22 27	.....	62	3 03.0	20 04	7.7
Sun Aug 25/Mon Aug 26	21 22	19 41	21 07	4 52	6 18	18 29	2 15	23 05	.....	51	4 00.3	24 13	7.7
Mon Aug 26/Tue Aug 27	21 26	19 40	21 06	4 53	6 19	18 32	2 20	23 50	.....	40	4 59.2	26 52	7.8
Tue Aug 27/Wed Aug 28	21 30	19 39	21 04	4 54	6 19	18 34	2 25	0 43	.....	30	5 58.3	27 53	7.8
Wed Aug 28/Thu Aug 29	21 34	19 37	21 02	4 55	6 20	18 36	2 30	1 42	.....	21	6 56.4	27 18	7.9
Thu Aug 29/Fri Aug 30	21 38	19 36	21 01	4 56	6 21	18 38	2 35	2 46	17 35	13	7 51.9	25 17	7.9
Fri Aug 30/Sat Aug 31	21 42	19 34	20 59	4 57	6 22	18 41	2 40	3 50	18 14	7	8 44.1	22 03	8.0
Sat Aug 31/Sun Sep 01	21 46	19 33	20 57	4 58	6 23	18 43	2 45	4 54	18 46	3	9 32.8	17 53	8.0

Calendar for CA iTel, west longitude (h.m.s) = 7 57 36, latitude (d.m) = 37 04.2
Rise/set times in Pacific time (8 hr W), for 1405 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.

***** 2024 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
Sun Sep 01/Mon Sep 02	21 50	19 31	20 56	4 59	6 24	18 45	2 50	5 55	19 12	1	10 18.5	13 01	8.1
Mon Sep 02/Tue Sep 03	21 54	19 30	20 54	5 00	6 24	18 47	2 55	6 54	19 36	0	11 01.9	7 43	8.1
Tue Sep 03/Wed Sep 04	21 58	19 28	20 52	5 01	6 25	18 50	3 00	.....	19 58	1	11 43.7	2 10	8.2
Wed Sep 04/Thu Sep 05	22 02	19 27	20 50	5 02	6 26	18 52	3 05	.....	20 18	4	12 25.0	- 3 27	8.2
Thu Sep 05/Fri Sep 06	22 06	19 25	20 49	5 03	6 27	18 54	3 10	.....	20 40	9	13 06.5	- 8 58	8.2
Fri Sep 06/Sat Sep 07	22 10	19 24	20 47	5 04	6 28	18 56	3 15	.....	21 02	15	13 49.3	-14 13	8.3
Sat Sep 07/Sun Sep 08	22 14	19 22	20 45	5 05	6 29	18 59	3 20	.....	21 28	22	14 34.3	-19 01	8.3
Sun Sep 08/Mon Sep 09	22 18	19 21	20 44	5 06	6 29	19 01	3 25	.....	21 57	31	15 22.2	-23 11	8.4
Mon Sep 09/Tue Sep 10	22 22	19 19	20 42	5 07	6 30	19 03	3 30	.....	22 33	40	16 13.8	-26 28	8.4
Tue Sep 10/Wed Sep 11	22 26	19 18	20 40	5 08	6 31	19 05	3 35	.....	23 17	50	17 09.1	-28 36	8.5
Wed Sep 11/Thu Sep 12	22 30	19 16	20 39	5 09	6 32	19 08	3 40	.....	0 11	60	18 07.7	-29 20	8.5
Thu Sep 12/Fri Sep 13	22 33	19 15	20 37	5 10	6 33	19 10	3 45	.....	1 14	70	19 08.2	-28 26	8.6
Fri Sep 13/Sat Sep 14	22 37	19 13	20 35	5 11	6 33	19 12	3 50	.....	2 24	80	20 09.0	-25 49	8.6
Sat Sep 14/Sun Sep 15	22 41	19 12	20 33	5 12	6 34	19 14	3 55	17 19	3 39	88	21 08.6	-21 34	8.6
Sun Sep 15/Mon Sep 16	22 45	19 10	20 32	5 13	6 35	19 17	3 59	17 55	4 55	95	22 06.2	-15 55	8.7
Mon Sep 16/Tue Sep 17	22 49	19 09	20 30	5 14	6 36	19 19	4 04	18 27	6 10	99	23 02.0	- 9 13	8.7
Tue Sep 17/Wed Sep 18	22 53	19 07	20 28	5 15	6 37	19 21	4 09	18 55	.....	100	23 56.5	- 1 56	8.8
Wed Sep 18/Thu Sep 19	22 57	19 06	20 27	5 16	6 38	19 23	4 14	19 24	.....	98	0 50.9	5 27	8.8
Thu Sep 19/Fri Sep 20	23 01	19 04	20 25	5 17	6 38	19 26	4 19	19 53	.....	93	1 46.1	12 25	8.9
Fri Sep 20/Sat Sep 21	23 05	19 03	20 24	5 18	6 39	19 28	4 24	20 25	.....	85	2 43.0	18 31	8.9
Sat Sep 21/Sun Sep 22	23 09	19 01	20 22	5 19	6 40	19 30	4 29	21 01	.....	76	3 42.1	23 19	9.0
Sun Sep 22/Mon Sep 23	23 13	18 59	20 20	5 20	6 41	19 33	4 34	21 45	.....	65	4 42.7	26 32	9.0
Mon Sep 23/Tue Sep 24	23 17	18 58	20 19	5 21	6 42	19 35	4 39	22 36	.....	55	5 43.7	28 01	9.0
Tue Sep 24/Wed Sep 25	23 21	18 56	20 17	5 22	6 42	19 37	4 43	23 35	.....	44	6 43.4	27 48	9.1
Wed Sep 25/Thu Sep 26	23 25	18 55	20 15	5 23	6 43	19 40	4 48	0 38	.....	34	7 40.3	26 03	9.1
Thu Sep 26/Fri Sep 27	23 29	18 53	20 14	5 24	6 44	19 42	4 53	1 43	.....	25	8 33.5	23 02	9.2
Fri Sep 27/Sat Sep 28	23 33	18 52	20 12	5 24	6 45	19 44	4 58	2 46	16 49	17	9 22.9	19 02	9.2
Sat Sep 28/Sun Sep 29	23 37	18 50	20 11	5 25	6 46	19 47	5 03	3 48	17 17	10	10 09.0	14 18	9.2
Sun Sep 29/Mon Sep 30	23 40	18 49	20 09	5 26	6 47	19 49	5 08	4 47	17 41	5	10 52.6	9 06	9.3
Mon Sep 30/Tue Oct 01	23 44	18 47	20 08	5 27	6 48	19 51	5 12	5 45	18 03	2	11 34.5	3 36	9.3

***** 2024 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
Tue Oct 01/Wed Oct 02	23 48	18 46	20 06	5 28	6 48	19 54	5 17	6 42	18 24	0	12 15.7	- 2 00	9.4
Wed Oct 02/Thu Oct 03	23 52	18 44	20 05	5 29	6 49	19 56	5 22	.....	18 45	0	12 57.0	- 7 33	9.4
Thu Oct 03/Fri Oct 04	23 56	18 43	20 03	5 30	6 50	19 59	5 27	.....	19 07	2	13 39.3	-12 53	9.4
Fri Oct 04/Sat Oct 05	0 00	18 41	20 02	5 31	6 51	20 01	5 32	.....	19 31	5	14 23.6	-17 48	9.5
Sat Oct 05/Sun Oct 06	0 04	18 40	20 00	5 32	6 52	20 04	5 37	.....	20 00	11	15 10.5	-22 07	9.5
Sun Oct 06/Mon Oct 07	0 08	18 39	19 59	5 32	6 53	20 06	5 41	.....	20 33	17	16 00.6	-25 36	9.6
Mon Oct 07/Tue Oct 08	0 12	18 37	19 57	5 33	6 54	20 09	5 46	.....	21 14	25	16 54.0	-28 00	9.6
Tue Oct 08/Wed Oct 09	0 16	18 36	19 56	5 34	6 54	20 11	5 51	.....	22 03	34	17 50.3	-29 07	9.6
Wed Oct 09/Thu Oct 10	0 20	18 34	19 54	5 35	6 55	20 14	5 56	.....	23 01	44	18 48.5	-28 44	9.7
Thu Oct 10/Fri Oct 11	0 24	18 33	19 53	5 36	6 56	20 16	6 01	.....	0 06	55	19 47.1	-26 46	9.7
Fri Oct 11/Sat Oct 12	0 28	18 31	19 52	5 37	6 57	20 19	6 06	.....	1 17	65	20 45.0	-23 15	9.8
Sat Oct 12/Sun Oct 13	0 32	18 30	19 50	5 38	6 58	20 21	6 10	.....	2 29	76	21 41.3	-18 19	9.8
Sun Oct 13/Mon Oct 14	0 36	18 29	19 49	5 39	6 59	20 24	6 15	16 23	3 43	85	22 36.2	-12 14	9.8
Mon Oct 14/Tue Oct 15	0 40	18 27	19 48	5 39	7 00	20 27	6 20	16 52	4 57	93	23 30.0	- 5 19	9.9
Tue Oct 15/Wed Oct 16	0 44	18 26	19 46	5 40	7 01	20 29	6 25	17 20	6 12	98	0 23.9	2 01	9.9
Wed Oct 16/Thu Oct 17	0 48	18 25	19 45	5 41	7 02	20 32	6 30	17 48	7 29	100	1 18.9	9 17	9.9
Thu Oct 17/Fri Oct 18	0 51	18 23	19 44	5 42	7 03	20 34	6 34	18 19	.....	99	2 16.0	15 58	10.0
Fri Oct 18/Sat Oct 19	0 55	18 22	19 42	5 43	7 04	20 37	6 39	18 54	.....	95	3 15.9	21 33	10.0
Sat Oct 19/Sun Oct 20	0 59	18 21	19 41	5 44	7 05	20 40	6 44	19 36	.....	88	4 18.3	25 35	10.0
Sun Oct 20/Mon Oct 21	1 03	18 19	19 40	5 45	7 05	20 43	6 49	20 26	.....	80	5 21.8	27 49	10.1
Mon Oct 21/Tue Oct 22	1 07	18 18	19 39	5 46	7 06	20 45	6 54	21 23	.....	70	6 24.5	28 10	10.1
Tue Oct 22/Wed Oct 23	1 11	18 17	19 38	5 46	7 07	20 48	6 59	22 27	.....	60	7 24.3	26 48	10.1
Wed Oct 23/Thu Oct 24	1 15	18 16	19 37	5 47	7 08	20 51	7 03	23 33	.....	50	8 20.0	24 02	10.2
Thu Oct 24/Fri Oct 25	1 19	18 15	19 35	5 48	7 09	20 54	7 08	0 38	.....	40	9 11.2	20 11	10.2
Fri Oct 25/Sat Oct 26	1 23	18 13	19 34	5 49	7 10	20 57	7 13	1 41	.....	31	9 58.6	15 34	10.2
Sat Oct 26/Sun Oct 27	1 27	18 12	19 33	5 50	7 11	20 59	7 18	2 40	.....	22	10 42.9	10 27	10.3
Sun Oct 27/Mon Oct 28	1 31	18 11	19 32	5 51	7 12	21 02	7 23	3 38	16 08	15	11 25.1	5 00	10.3
Mon Oct 28/Tue Oct 29	1 35	18 10	19 31	5 52	7 13	21 05	7 28	4 35	16 30	9	12 06.4	- 0 35	10.3
Tue Oct 29/Wed Oct 30	1 39	18 09	19 30	5 53	7 14	21 08	7 32	5 32	16 50	4	12 47.6	- 6 09	10.4
Wed Oct 30/Thu Oct 31	1 43	18 08	19 29	5 54	7 15	21 11	7 37	6 30	17 12	1	13 29.7	-11 32	10.4
Thu Oct 31/Fri Nov 01	1 47	18 07	19 28	5 54	7 16	21 14	7 42	7 30	17 36	0	14 13.6	-16 33	10.4

Calendar for CA iTel, west longitude (h.m.s) = 7 57 36, latitude (d.m) = 37 04.2
Rise/set times in Pacific time (8 hr W), for 1405 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.

***** 2024 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
Fri Nov 01/Sat Nov 02	1 51	18 06	19 27	5 55	7 17	21 17	7 47	.....	18 03	1	15 00.0	-21 01	10.5
Sat Nov 02/Sun Nov 03*	1 55	18 05	19 26	4 56	6 18	21 20	7 52	.....	18 35	3	15 49.5	-24 42	10.5
Sun Nov 03/Mon Nov 04	2 59	17 04	18 26	4 57	6 19	21 23	7 57	.....	18 13	7	16 45.1	-27 23	10.5
Mon Nov 04/Tue Nov 05	3 03	17 03	18 25	4 58	6 20	21 26	8 01	.....	19 00	13	17 40.5	-28 42	10.6
Tue Nov 05/Wed Nov 06	3 07	17 02	18 24	4 59	6 21	21 30	8 06	.....	19 55	21	18 37.5	-28 34	10.6
Wed Nov 06/Thu Nov 07	3 10	17 01	18 23	5 00	6 22	21 33	8 11	.....	20 57	29	19 34.7	-26 57	10.6
Thu Nov 07/Fri Nov 08	3 14	17 00	18 22	5 01	6 23	21 36	8 16	.....	22 04	39	20 30.9	-23 52	10.6
Fri Nov 08/Sat Nov 09	3 18	16 59	18 22	5 02	6 24	21 39	8 21	.....	23 14	50	21 25.5	-19 27	10.7
Sat Nov 09/Sun Nov 10	3 22	16 58	18 21	5 03	6 25	21 42	8 26	.....	0 25	61	22 18.3	-13 56	10.7
Sun Nov 10/Mon Nov 11	3 26	16 57	18 20	5 03	6 26	21 46	8 30	.....	1 35	72	23 10.1	- 7 33	10.7
Mon Nov 11/Tue Nov 12	3 30	16 57	18 20	5 04	6 27	21 49	8 35	.....	2 47	82	0 01.7	- 0 38	10.7
Tue Nov 12/Wed Nov 13	3 34	16 56	18 19	5 05	6 28	21 52	8 40	.....	4 01	90	0 54.4	6 28	10.8
Wed Nov 13/Thu Nov 14	3 38	16 55	18 18	5 06	6 29	21 55	8 45	.....	5 17	96	1 49.4	13 18	10.8
Thu Nov 14/Fri Nov 15	3 42	16 54	18 18	5 07	6 30	21 59	8 50	15 46	6 36	99	2 47.8	19 22	10.8
Fri Nov 15/Sat Nov 16	3 46	16 54	18 17	5 08	6 32	22 02	8 55	16 24	7 54	100	3 49.7	24 08	10.8
Sat Nov 16/Sun Nov 17	3 50	16 53	18 17	5 09	6 33	22 06	9 00	17 11	.....	97	4 54.4	27 12	10.9
Sun Nov 17/Mon Nov 18	3 54	16 53	18 16	5 10	6 34	22 09	9 04	18 06	.....	92	5 59.7	28 19	10.9
Mon Nov 18/Tue Nov 19	3 58	16 52	18 16	5 11	6 35	22 13	9 09	19 09	.....	84	7 03.0	27 32	10.9
Tue Nov 19/Wed Nov 20	4 02	16 51	18 15	5 11	6 36	22 16	9 14	20 17	.....	76	8 02.3	25 06	10.9
Wed Nov 20/Thu Nov 21	4 06	16 51	18 15	5 12	6 37	22 20	9 19	21 24	.....	66	8 56.8	21 25	11.0
Thu Nov 21/Fri Nov 22	4 10	16 50	18 15	5 13	6 38	22 23	9 24	22 29	.....	56	9 46.5	16 51	11.0
Fri Nov 22/Sat Nov 23	4 14	16 50	18 14	5 14	6 39	22 27	9 28	23 31	.....	47	10 32.5	11 43	11.0
Sat Nov 23/Sun Nov 24	4 17	16 50	18 14	5 15	6 40	22 31	9 33	0 30	.....	37	11 15.8	6 15	11.0
Sun Nov 24/Mon Nov 25	4 21	16 49	18 14	5 16	6 41	22 34	9 38	1 28	.....	28	11 57.6	0 39	11.0
Mon Nov 25/Tue Nov 26	4 25	16 49	18 14	5 17	6 42	22 38	9 43	2 24	.....	20	12 39.0	- 4 57	11.1
Tue Nov 26/Wed Nov 27	4 29	16 48	18 13	5 17	6 42	22 42	9 48	3 22	.....	13	13 21.0	-10 22	11.1
Wed Nov 27/Thu Nov 28	4 33	16 48	18 13	5 18	6 43	22 46	9 52	4 21	.....	8	14 04.6	-15 28	11.1
Thu Nov 28/Fri Nov 29	4 37	16 48	18 13	5 19	6 44	22 49	9 57	5 22	.....	4	14 50.7	-20 03	11.1
Fri Nov 29/Sat Nov 30	4 41	16 48	18 13	5 20	6 45	22 53	10 02	6 25	15 35	1	15 39.9	-23 53	11.1
Sat Nov 30/Sun Dec 01	4 45	16 48	18 13	5 21	6 46	22 57	10 07	7 28	16 12	0	16 32.4	-26 44	11.1

***** 2024 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
Sun Dec 01/Mon Dec 02	4 49	16 47	18 13	5 22	6 47	23 01	10 11	8 28	16 56	1	17 27.8	-28 20	11.1
Mon Dec 02/Tue Dec 03	4 53	16 47	18 13	5 22	6 48	23 05	10 16	.....	17 50	4	18 25.0	-28 30	11.2
Tue Dec 03/Wed Dec 04	4 57	16 47	18 13	5 23	6 49	23 09	10 21	.....	18 51	10	19 22.5	-27 10	11.2
Wed Dec 04/Thu Dec 05	5 01	16 47	18 13	5 24	6 50	23 13	10 26	.....	19 57	16	20 18.9	-24 21	11.2
Thu Dec 05/Fri Dec 06	5 05	16 47	18 13	5 25	6 51	23 17	10 30	.....	21 06	25	21 13.3	-20 14	11.2
Fri Dec 06/Sat Dec 07	5 09	16 47	18 13	5 25	6 51	23 21	10 35	.....	22 15	35	22 05.5	-15 02	11.2
Sat Dec 07/Sun Dec 08	5 13	16 47	18 13	5 26	6 52	23 25	10 40	.....	23 24	46	22 55.9	- 9 01	11.2
Sun Dec 08/Mon Dec 09	5 17	16 47	18 13	5 27	6 53	23 29	10 44	.....	0 33	57	23 45.7	- 2 28	11.2
Mon Dec 09/Tue Dec 10	5 21	16 47	18 14	5 28	6 54	23 33	10 49	.....	1 43	68	0 35.9	4 19	11.2
Tue Dec 10/Wed Dec 11	5 25	16 48	18 14	5 28	6 55	23 37	10 54	.....	2 55	78	1 27.9	11 00	11.2
Wed Dec 11/Thu Dec 12	5 28	16 48	18 14	5 29	6 55	23 42	10 58	.....	4 10	87	2 22.9	17 09	11.2
Thu Dec 12/Fri Dec 13	5 32	16 48	18 14	5 30	6 56	23 46	11 03	.....	5 27	94	3 21.8	22 20	11.3
Fri Dec 13/Sat Dec 14	5 36	16 48	18 15	5 30	6 57	23 50	11 08	.....	6 43	98	4 24.4	26 05	11.3
Sat Dec 14/Sun Dec 15	5 40	16 49	18 15	5 31	6 57	23 54	11 12	15 48	7 52	100	5 29.4	28 03	11.3
Sun Dec 15/Mon Dec 16	5 44	16 49	18 15	5 31	6 58	23 59	11 17	16 48	.....	99	6 34.3	28 03	11.3
Mon Dec 16/Tue Dec 17	5 48	16 49	18 16	5 32	6 59	0 03	11 21	17 55	.....	95	7 36.6	26 14	11.3
Tue Dec 17/Wed Dec 18	5 52	16 50	18 16	5 33	6 59	0 07	11 26	19 05	.....	89	8 34.4	22 56	11.3
Wed Dec 18/Thu Dec 19	5 56	16 50	18 17	5 33	7 00	0 12	11 30	20 13	.....	82	9 27.3	18 32	11.3
Thu Dec 19/Fri Dec 20	6 00	16 50	18 17	5 34	7 00	0 16	11 35	21 17	.....	73	10 15.7	13 26	11.3
Fri Dec 20/Sat Dec 21	6 04	16 51	18 17	5 34	7 01	0 20	11 39	22 19	.....	64	11 00.8	7 56	11.3
Sat Dec 21/Sun Dec 22	6 08	16 51	18 18	5 35	7 01	0 25	11 44	23 17	.....	55	11 43.7	2 16	11.3
Sun Dec 22/Mon Dec 23	6 12	16 52	18 18	5 35	7 02	0 29	11 48	0 14	.....	45	12 25.6	- 3 24	11.3
Mon Dec 23/Tue Dec 24	6 16	16 52	18 19	5 36	7 02	0 34	11 52	1 12	.....	36	13 07.6	- 8 55	11.3
Tue Dec 24/Wed Dec 25	6 20	16 53	18 20	5 36	7 03	0 38	11 57	2 10	.....	28	13 50.8	-14 07	11.3
Wed Dec 25/Thu Dec 26	6 24	16 54	18 20	5 36	7 03	0 43	12 01	3 10	.....	20	14 36.1	-18 51	11.3
Thu Dec 26/Fri Dec 27	6 28	16 54	18 21	5 37	7 03	0 47	12 05	4 12	.....	13	15 24.4	-22 55	11.3
Fri Dec 27/Sat Dec 28	6 32	16 55	18 21	5 37	7 03	0 52	12 10	5 15	.....	7	16 16.2	-26 03	11.3
Sat Dec 28/Sun Dec 29	6 35	16 56	18 22	5 37	7 04	0 57	12 14	6 17	.....	3	17 11.3	-28 01	11.3
Sun Dec 29/Mon Dec 30	6 39	16 56	18 23	5 38	7 04	1 01	12 18	7 15	15 40	1	18 08.8	-28 34	11.2
Mon Dec 30/Tue Dec 31	6 43	16 57	18 23	5 38	7 04	1 06	12 22	8 06	16 40	0	19 07.2	-27 34	11.2
Tue Dec 31/Wed Jan 01	6 47	16 58	18 24	5 38	7 04	1 10	12 26	.....	17 46	2	20 04.9	-25 02	11.2