

NASA - SKYCAL - Sky Events Calendar

2023

	Date	Local Time	Event		Date	Local Time	Event
Jan	01 Su	07:25	Moon Ascending Node		03 Mo	04:39	Full Moon
	05 Th	19:08	Moon North Dec.: 27.4° N		04 Tu	15:28	Moon Perigee: 360200 km
	06 Fr	15:08	Full Moon		09 Su	18:48	Last Quarter
	08 Su	01:19	Moon Apogee: 406500 km		10 Mo	18:23	Moon Ascending Node
	14 Sa	18:10	Last Quarter		15 Sa	19:40	Moon North Dec.: 27.8° N
	15 Su	22:32	Moon Descending Node		17 Mo	11:32	New Moon
	19 Th	21:06	Moon South Dec.: 27.5° S		19 We	23:56	Moon Apogee: 406300 km
	21 Sa	12:53	New Moon		25 Tu	08:05	Moon Descending Node
	21 Sa	12:58	Moon Perigee: 356600 km		25 Tu	15:07	First Quarter
	28 Sa	07:19	First Quarter		28 Fr	08:35	Delta Aquarid Shower: ZHR = 20
	28 Sa	08:05	Moon Ascending Node		30 Su	04:13	Moon South Dec.: 27.9° S
Feb	02 Th	00:18	Moon North Dec.: 27.5° N	Aug	01 Tu	11:31	Full Moon
	04 Sa	00:55	Moon Apogee: 406500 km		01 Tu	22:52	Moon Perigee: 357300 km
	05 Su	10:29	Full Moon		06 Su	19:46	Moon Ascending Node
	11 Sa	23:31	Moon Descending Node		08 Tu	03:28	Last Quarter
	13 Mo	08:01	Last Quarter		12 Sa	00:39	Moon North Dec.: 28° N
	16 Th	06:36	Moon South Dec.: 27.6° S		13 Su	00:29	Perseid Shower: ZHR = 90
	19 Su	01:06	Moon Perigee: 358300 km		16 We	02:38	New Moon
	19 Su	23:06	New Moon		16 We	04:55	Moon Apogee: 406600 km
	24 Fr	10:56	Moon Ascending Node		21 Mo	09:23	Moon Descending Node
	27 Mo	00:06	First Quarter		24 Th	02:57	First Quarter
Mar	01 We	06:09	Moon North Dec.: 27.7° N		26 Sa	13:22	Moon South Dec.: 28.1° S
	03 Fr	10:01	Moon Apogee: 405900 km		30 We	08:51	Moon Perigee: 357200 km
	07 Tu	04:40	Full Moon		30 We	18:35	Full Moon
	11 Sa	00:53	Moon Descending Node	Sep	03 Su	00:44	Moon Ascending Node
	14 Tu	19:08	Last Quarter		06 We	15:21	Last Quarter
	15 We	14:43	Moon South Dec.: 27.8° S		08 Fr	06:18	Moon North Dec.: 28.2° N
	19 Su	08:16	Moon Perigee: 362700 km		12 Tu	08:42	Moon Apogee: 406300 km
	21 Tu	10:23	New Moon		14 Th	18:40	New Moon
	23 Th	19:08	Moon Ascending Node		17 Su	12:18	Moon Descending Node
	28 Tu	14:29	Moon North Dec.: 27.9° N		22 Fr	12:32	First Quarter
	28 Tu	19:32	First Quarter		22 Fr	20:42	Moon South Dec.: 28.3° S
	31 Fr	04:18	Moon Apogee: 404900 km		27 We	18:05	Moon Perigee: 359900 km
Apr	05 We	21:34	Full Moon		29 Fr	02:57	Full Moon
	07 Fr	06:51	Moon Descending Node		30 Sa	09:49	Moon Ascending Node
	11 Tu	20:15	Moon South Dec.: 27.9° S	Oct	05 Th	13:31	Moon North Dec.: 28.3° N
	13 Th	02:11	Last Quarter		06 Fr	06:48	Last Quarter

Date	Local Time	Event
15 Sa	19:22	Moon Perigee: 368000 km
19 We	21:12	New Moon
20 Th	04:32	Moon Ascending Node
22 Sa	17:35	Lyrid Shower: ZHR = 20
24 Mo	22:53	Moon North Dec.: 28° N
27 Th	14:20	First Quarter
27 Th	23:43	Moon Apogee: 404300 km
May 04 Th	14:57	Moon Descending Node
05 Fr	06:49	Eta Aquarid Shower: ZHR = 60
05 Fr	10:34	Full Moon
09 Tu	02:01	Moon South Dec.: 27.9° S
10 We	21:57	Moon Perigee: 369300 km
12 Fr	07:28	Last Quarter
17 We	12:36	Moon Ascending Node
19 Fr	08:53	New Moon
22 Mo	07:08	Moon North Dec.: 27.9° N
25 Th	18:39	Moon Apogee: 404500 km
27 Sa	08:22	First Quarter
31 We	23:22	Moon Descending Node
Jun 03 Sa	20:42	Full Moon
05 Mo	09:21	Moon South Dec.: 27.9° S
06 Tu	16:07	Moon Perigee: 364900 km
10 Sa	12:31	Last Quarter
13 Tu	17:05	Moon Ascending Node
17 Sa	21:37	New Moon
18 Su	14:07	Moon North Dec.: 27.8° N
22 Th	11:31	Moon Apogee: 405400 km
26 Mo	00:50	First Quarter
28 We	05:22	Moon Descending Node
Jul 02 Su	18:23	Moon South Dec.: 27.8° S

Date	Local Time	Event
09 Mo	20:41	Moon Apogee: 405400 km
14 Sa	10:55	New Moon
14 Sa	18:11	Moon Descending Node
20 Fr	02:19	Moon South Dec.: 28.3° S
21 Sa	20:29	First Quarter
25 We	19:53	Moon Perigee: 364900 km
27 Fr	20:14	Moon Ascending Node
28 Sa	13:24	Full Moon
Nov 01 We	21:12	Moon North Dec.: 28.3° N
05 Su	00:37	Last Quarter
06 Mo	13:49	Moon Apogee: 404600 km
11 Sa	00:49	Moon Descending Node
13 Mo	01:27	New Moon
16 Th	06:45	Moon South Dec.: 28.2° S
20 Mo	02:50	First Quarter
21 Tu	13:03	Moon Perigee: 369800 km
24 Fr	03:02	Moon Ascending Node
27 Mo	01:16	Full Moon
29 We	06:08	Moon North Dec.: 28.2° N
Dec 04 Mo	10:42	Moon Apogee: 404300 km
04 Mo	21:49	Last Quarter
08 Fr	07:24	Moon Descending Node
12 Tu	15:32	New Moon
13 We	13:51	Moon South Dec.: 28.2° S
16 Sa	10:53	Moon Perigee: 367900 km
19 Tu	10:39	First Quarter
21 Th	05:54	Moon Ascending Node
26 Tu	13:50	Moon North Dec.: 28.1° N
26 Tu	16:33	Full Moon

*All event times are given for UTC-8:00: Pacific Standard Time (PST) **with** Daylight Saving Time (DST) on for part of the year.*

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All SKYCAL astronomical calculations are by Fred Espenak, and he assumes full responsibility for their accuracy. Special thanks to National Space Club summer intern **Sumit Dutta** for his valuable assistance in developing the Sky Events Calendar (July 2007).

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