










2020 January

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
30	31	1 Venus 34.6° E Moon Apogee 22:30	2	 3 First Quarter 01:45	4 Quadrantids 05:38	5 Perihelion 06:59
6	7	8	9 Moon A Node 20:29	 10 Moon N Dec 03:03 Mercury Super 12:01 Pen Lunar Ec 16:10 Full Moon 16:21	11 Moon-Beehive 20:54	12
13 Saturn Sun 11:23 Moon Perigee 17:20	14	15	16	 17 Last Quarter 09:58 Mars-Antares 20:03	18	19
20 Moon-Mars 16:13	21	22 Moon D Node 17:31 Moon-Jupiter 23:42	23 Moon S Dec 00:37	 24 New Moon 18:42	25	26
27	28 Moon-Venus 04:29	29 Moon Apogee 18:28	30	31	 1 Venus 40.4° E First Quarter 22:42	2

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2020 February

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
27	28 <u>Moon-Venus</u> 04:29	29 <u>Moon Apogee</u> 18:28	30	31	 1 <u>Venus</u> 40.4° E <u>First Quarter</u> 22:42	2
3	4	5	6 <u>Moon A Node</u> 05:59 <u>Moon N Dec</u> 13:10	7	8 <u>Moon-Beehive</u> 07:16	 9 <u>Full Moon</u> 04:33
10 <u>Mercury East</u> 10:59 <u>Moon Perigee</u> 17:30	11	12	13	14	 15 <u>Last Quarter</u> 19:17	16
17	18 <u>Moon-Mars</u> 10:18 <u>Moon D Node</u> 21:12	19 <u>Moon S Dec</u> 05:58 <u>Moon-Jupiter</u> 16:36	20 <u>Moon-Saturn</u> 10:47	21	22	 23 <u>New Moon</u> 12:32
24	25 <u>Mercury Infer</u> 22:37	26 <u>Moon Apogee</u> 08:35	27 <u>Moon-Venus</u> 08:51	28	29	1 <u>Venus</u> 44.6° E




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2020 March

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
24	25	26	27	28	29	1
	<u>Mercury Infer</u> 22:37	<u>Moon Apogee</u> 08:35	<u>Moon-Venus</u> 08:51			<u>Venus</u> 44.6° E
 2	3	4	5	6	7	8
<u>First Quarter</u> 16:57		<u>Moon A Node</u> 11:58 <u>Moon N Dec</u> 22:34		<u>Moon-Beehive</u> 18:08		<u>Neptune Sun</u> 09:09
 9	10	11	12	13	14	15
<u>Full Moon</u> 14:48	<u>Moon Perigee</u> 03:33					
 16	17	18	19	20	21	22
<u>Last Quarter</u> 06:34 <u>Moon D Node</u> 22:00	<u>Moon S Dec</u> 11:07	<u>Moon-Mars</u> 05:19 <u>Moon-Jupiter</u> 07:18 <u>Moon-Saturn</u> 21:04		<u>Spring Eq</u> 00:50 <u>Mars-Jup</u> 07:24	<u>Moon-Mercury</u> 14:48	
23	 24	25	26	27	28	29
<u>Mercury West</u> 22:59	<u>New Moon</u> 06:28 <u>Moon Apogee</u> 12:23 <u>Venus East</u> 18:59					
30	31	 1	2	3	4	5
	<u>Moon A Node</u> 13:51 <u>Mars-Sat</u> 17:00	<u>Moon N Dec</u> 06:12 <u>First Quarter</u> 07:21 <u>Venus</u> 45.9° E		<u>Moon-Beehive</u> 03:24 <u>Venus-M45</u> 11:39		

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2020 April

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
30	31 <u>Moon A Node</u> 13:51 <u>Mars-Sat</u> 17:00	1  <u>Moon N Dec</u> 06:12 <u>First Quarter</u> 07:21 <u>Venus</u> 45.9° E	2	3 <u>Moon-Beehive</u> 03:24 <u>Venus-M45</u> 11:39	4	5
6	7  <u>Moon Perigee</u> 15:08 <u>Full Moon</u> 23:35	8	9	10	11	12 <u>Moon D Node</u> 23:58
13 <u>Moon S Dec</u> 18:03	14  <u>Last Quarter</u> 19:56 <u>Moon-Jupiter</u> 20:04	15 <u>Moon-Saturn</u> 06:26	16 <u>Moon-Mars</u> 01:33	17	18	19
20 <u>Moon Apogee</u> 16:01	21	22  <u>Lyrids</u> 03:07 <u>New Moon</u> 23:26	23	24	25	26 <u>Uranus Sun</u> 07:19 <u>Moon-Venus</u> 12:23
27 <u>Moon A Node</u> 14:54	28 <u>Moon N Dec</u> 12:23	29	30  <u>Moon-Beehive</u> 10:17 <u>First Quarter</u> 17:38	1 <u>Venus</u> 38° E	2	3

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2020 May

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
27 <u>Moon A Node</u> 14:54	28 <u>Moon N Dec</u> 12:23	29	 30 <u>Moon-Beehive</u> 10:17 <u>First Quarter</u> 17:38	1 <u>Venus</u> 38° E	2	3
4 <u>Eta Aquarids</u> 16:21 <u>Mercury Super</u> 18:22	5	6 <u>Moon Perigee</u> 00:03	 7 <u>Full Moon</u> 07:45	8	9	10 <u>Moon D Node</u> 06:01
11 <u>Moon S Dec</u> 03:13	12 <u>Moon-Jupiter</u> 06:40 <u>Moon-Saturn</u> 15:18	13	 14 <u>Last Quarter</u> 11:03 <u>Moon-Mars</u> 23:01	15	16	17 <u>Jup-Sat</u> 22:13
18 <u>Moon Apogee</u> 04:45	19	20	21	 22 <u>Mercury-Ven</u> 06:37 <u>New Moon</u> 14:39	23 <u>Moon-Venus</u> 23:40	24 <u>Moon-Mercury</u> 07:53 <u>Moon A Node</u> 18:34
25 <u>Moon N Dec</u> 18:16	26	27 <u>Moon-Beehive</u> 15:44	28	29	 30 <u>First Quarter</u> 00:30	31

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2020 June

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1 <u>Venus 3.7° E</u>	2	3 <u>Moon Perigee 00:36</u> <u>Venus Infer 14:42</u>	4 <u>Mercury East 09:59</u>	5  <u>Full Moon 16:12</u> <u>Pen Lunar Ec 16:25</u>	6 <u>Moon D Node 15:10</u>	7 <u>Moon S Dec 13:22</u>
8 <u>Moon-Jupiter 14:19</u> <u>Moon-Saturn 23:19</u>	9	10	11	12 <u>Moon-Mars 20:53</u>	13  <u>Last Quarter 03:24</u>	14 <u>Moon Apogee 21:56</u>
15	16	17	18	19 <u>Moon-Venus 05:52</u>	20 <u>Summer Sol 18:43</u>	21  <u>Moon A Node 01:24</u> <u>Ann Solar Ec 03:40</u> <u>New Moon 03:41</u>
22 <u>Moon N Dec 00:56</u>	23 <u>Moon-Beehive 21:33</u>	24	25	26	27	28  <u>First Quarter 05:16</u>
29 <u>Moon Perigee 23:09</u>	30 <u>Mercury Infer 23:45</u>	1 <u>Venus 34.3° W</u>	2	3	4 <u>Moon D Node 00:18</u> <u>Aphelion 11:59</u> <u>Moon S Dec 22:37</u>	5  <u>Pen Lunar Ec 01:30</u> <u>Full Moon 01:44</u> <u>Moon-Jupiter 18:37</u>







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2020 July

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
29 <u>Moon Perigee</u> 23:09	30 <u>Mercury Infer</u> 23:45	1 <u>Venus</u> 34.3° W	2	3	4 <u>Moon D Node</u> 00:18 <u>Aphelion</u> 11:59 <u>Moon S Dec</u> 22:37	5  <u>Pen Lunar Ec</u> 01:30 <u>Full Moon</u> 01:44 <u>Moon-Jupiter</u> 18:37
6 <u>Moon-Saturn</u> 05:45	7	8	9	10	11 <u>Venus-Aldeb.</u> 09:17 <u>Moon-Mars</u> 16:36	12  <u>Moon Apogee</u> 16:27 <u>Last Quarter</u> 20:29
13	14 <u>Jupiter Opp</u> 04:03	15	16	17 <u>Moon-Venus</u> 04:26	18 <u>Moon A Node</u> 09:33	19 <u>Moon N Dec</u> 08:51
 20 <u>New Moon</u> 14:33 <u>Saturn Opp</u> 18:33	21	22 <u>Mercury West</u> 11:59	23	24	25 <u>Moon Perigee</u> 01:54	26
 27 <u>First Quarter</u> 09:32 <u>Delta Aquarids</u> 18:08	28	29	30	31 <u>Moon D Node</u> 06:32	1 <u>Moon S Dec</u> 05:47 <u>Venus</u> 45.2° W <u>Mercury Pol.</u> 17:14 <u>Moon-Jupiter</u> 20:30	2 <u>Moon-Saturn</u> 10:17

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2020 August

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
 27 <u>First Quarter</u> 09:32 <u>Delta Aquarids</u> 18:08	28	29	30	31 <u>Moon D Node</u> 06:32	1 <u>Moon S Dec</u> 05:47 <u>Venus</u> 45.2° W <u>Mercury-Pol.</u> 17:14 <u>Moon-Jupiter</u> 20:30	2 <u>Moon-Saturn</u> 10:17
 3 <u>Full Moon</u> 12:59	4	5	6	7	8	9 <u>Moon-Mars</u> 04:57 <u>Moon Apogee</u> 10:51
10	 11 <u>Last Quarter</u> 13:45	12 <u>Perseids</u> 10:02 <u>Venus West</u> 21:59	13	14 <u>Moon A Node</u> 16:22	15 <u>Moon-Venus</u> 10:01 <u>Moon N Dec</u> 17:40	16
17 <u>Mercury Super</u> 11:47	 18 <u>New Moon</u> 23:41	19	20	21 <u>Moon Perigee</u> 07:59	22	23
24	 25 <u>First Quarter</u> 14:58	26	27 <u>Moon D Node</u> 08:52	28 <u>Moon S Dec</u> 11:06 <u>Moon-Jupiter</u> 22:33	29 <u>Moon-Saturn</u> 13:40	30
31	1 <u>Venus</u> 44.7° W	 2 <u>Full Moon</u> 02:22	3	4	5	6 <u>Moon-Mars</u> 01:42 <u>Moon Apogee</u> 03:31

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2020 September

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
31	1 <u>Venus 44.7° W</u>	2  <u>Full Moon 02:22</u>	3	4	5	6 <u>Moon-Mars 01:42</u> <u>Moon Apogee 03:31</u>
7	8	9	10  <u>Last Quarter 06:26</u> <u>Moon A Node 20:05</u>	11 <u>Neptune Opp 16:15</u>	12 <u>Moon N Dec 02:25</u> <u>Venus-M44 21:10</u>	13
14 <u>Moon-Beehive 00:19</u> <u>Moon-Venus 01:43</u>	15	16	17  <u>New Moon 08:00</u>	18 <u>Moon Perigee 10:44</u>	19	20
21	22 <u>Mercury-Spica 03:06</u> <u>Autumn Eq 10:31</u>	23  <u>Moon D Node 09:33</u> <u>First Quarter 22:55</u>	24 <u>Moon S Dec 16:11</u>	25 <u>Moon-Jupiter 03:46</u> <u>Moon-Saturn 17:46</u>	26	27
28	29	30	1  <u>Venus 40.3° W</u> <u>Mercury East 12:59</u> <u>Full Moon 18:05</u>	2 <u>Venus-Reg. 14:09</u>	3 <u>Moon-Mars 00:21</u> <u>Moon Apogee 14:22</u>	4






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2020 October

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
28	29	30	 1 Venus 40.3° W Mercury East 12:59 Full Moon 18:05	2 Venus-Reg. 14:09	3 Moon-Mars 00:21 Moon Apogee 14:22	4
5	6	7 Moon A Node 21:29	8	 9 Moon N Dec 10:07 Last Quarter 21:39	10	11 Moon-Beehive 09:27
12	13 Mars Opp 20:10 Moon-Venus 20:57	14	15	 16 New Moon 16:31 Moon Perigee 20:46	17	18
19	20 Moon D Node 12:53	21 Orionids 02:21 Moon S Dec 23:00	22 Moon-Jupiter 14:10	 23 Moon-Saturn 00:49 First Quarter 10:23	24	25 Mercury Infer 15:14
26	27	28	29 Moon-Mars 13:13	30 Moon Apogee 15:46	 31 Full Moon 11:49 Uranus Opp 13:05	1 Venus 34.2° W


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2020 November

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
26	27	28	29 <u>Moon-Mars</u> 13:13	30 <u>Moon Apogee</u> 15:46	 31 <u>Full Moon</u> 11:49 <u>Uranus Opp</u> 13:05	1 <u>Venus</u> 34.2° W
2	3 <u>Moon A Node</u> 23:39	4	5 <u>S. Taurids</u> 02:50 <u>Moon N Dec</u> 16:30	6	7 <u>Moon-Beehive</u> 16:34	 8 <u>Last Quarter</u> 10:46
9	10 <u>Mercury West</u> 13:59	11	12 <u>N. Taurids</u> 02:06 <u>Moon-Venus</u> 18:31	13	14 <u>Moon Perigee</u> 08:48	 15 <u>New Moon</u> 02:07
16 <u>Venus-Spica</u> 10:24 <u>Moon D Node</u> 21:07	17 <u>Leonids</u> 08:24	18 <u>Moon S Dec</u> 08:27	19 <u>Moon-Jupiter</u> 05:54 <u>Moon-Saturn</u> 11:57	20	21	 22 <u>First Quarter</u> 01:45
23	24	25	26 <u>Moon Apogee</u> 21:29	27	28	29
 30 <u>Full Moon</u> 06:30 <u>Pen Lunar Ec</u> 06:44	1 <u>Moon A Node</u> 04:46 <u>Venus</u> 27.5° W	2 <u>Moon N Dec</u> 22:22	3	4 <u>Moon-Beehive</u> 22:10	5	6

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2020 December

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
 30 <u>Full Moon</u> 06:30 <u>Pen. Lunar Ec</u> 06:44	1 <u>Moon A Node</u> 04:46 <u>Venus</u> 27.5° W	2 <u>Moon N Dec</u> 22:22	3	4 <u>Moon-Beehive</u> 22:10	5	6
 7 <u>Last Quarter</u> 21:37	8	9	10	11	12 <u>Moon-Venus</u> 17:40 <u>Moon Perigee</u> 17:42	13 <u>Geminids</u> 21:35
 14 <u>Moon D Node</u> 08:03 <u>Total Sol Ec</u> 13:15 <u>New Moon</u> 13:17	15 <u>Moon S Dec</u> 19:23	16	17 <u>Moon-Jupiter</u> 01:28 <u>Moon-Saturn</u> 02:25	18	19 <u>Mercury Super</u> 23:56	20
 21 <u>Winter Sol</u> 07:02 <u>First Quarter</u> 20:41	22 <u>Ursids</u> 06:00 <u>Jup-Sat</u> 06:35	23 <u>Venus-Ant.</u> 11:48	24 <u>Moon Apogee</u> 13:32	25	26	27
28 <u>Moon A Node</u> 12:03	29	 30 <u>Full Moon</u> 00:28 <u>Moon N Dec</u> 04:53	31	1 <u>Moon-Beehive</u> 04:05 <u>Venus</u> 20.2° W	2 <u>Perihelion</u> 05:59	3 <u>Quadrantids</u> 11:47

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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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"Sky Events Calendar by Fred Espenak and Sumit Dutta (NASA's GSFC)"

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Website Manager: Robert M. Candey (Robert.M.Candey@nasa.gov)
 Responsible NASA Official: Alex Young (c.a.young@nasa.gov)
 Heliophysics Science Division, Code 670
 NASA Goddard Space Flight Center
 Greenbelt, MD 20771, USA