



HUMAN PERFORMANCE FACTORS ATTACHEMENT

USNO Astronomical Data

Randolph, NH

HWY19MH010

(21 pages)

Sun and Moon Data for One Day

U.S. Naval Observatory Astronomical Applications Department

(Longitude W 71° 21', Latitude N 44° 21')

Friday, June 21, 2019

Universal Time - 4h

Sun	
Begin civil twilight	04:24
Sunrise	05:01
Sun transit	12:47
Sunset	20:33
End civil twilight	21:10
Moon	
Moonrise	23:12 on preceding day
Moon transit	04:02
Moonsset	08:56
Moonrise	23:45

Closest Primary Moon Phase: Last Quarter on June 25, 2019 at 05:46

Phase of the Moon on June 21, 2019: Waning Gibbous with 83% of the Moon's visible disk illuminated.



Moon image not available.

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Astronomical Applications Dept.
 U.S. Naval Observatory
 Washington, DC 20392-5420

° ' ° '
 W 71 21, N44 21

Altitude and Azimuth of the Sun
 Jun 21, 2019

Zone: 4h West of Greenwich

	Altitude	Azimuth
		(E of N)
h m	°	°
03:36	-12.0	39.1
03:37	-11.9	39.3
03:38	-11.8	39.5
03:39	-11.7	39.7
03:40	-11.5	39.9
03:41	-11.4	40.1
03:42	-11.3	40.3
03:43	-11.2	40.5
03:44	-11.1	40.7
03:45	-11.0	40.9
03:46	-10.8	41.1
03:47	-10.7	41.3
03:48	-10.6	41.5
03:49	-10.5	41.7
03:50	-10.4	41.9
03:51	-10.3	42.1
03:52	-10.1	42.3
03:53	-10.0	42.5
03:54	-9.9	42.7
03:55	-9.8	42.9
03:56	-9.6	43.1
03:57	-9.5	43.3
03:58	-9.4	43.5
03:59	-9.3	43.7
04:00	-9.2	43.9
04:01	-9.0	44.1
04:02	-8.9	44.3
04:03	-8.8	44.5
04:04	-8.7	44.7
04:05	-8.5	44.8
04:06	-8.4	45.0
04:07	-8.3	45.2
04:08	-8.2	45.4
04:09	-8.0	45.6
04:10	-7.9	45.8
04:11	-7.8	46.0
04:12	-7.6	46.2
04:13	-7.5	46.4
04:14	-7.4	46.6
04:15	-7.3	46.8

04:16	-7.1	47.0
04:17	-7.0	47.1
04:18	-6.9	47.3
04:19	-6.7	47.5
04:20	-6.6	47.7
04:21	-6.5	47.9
04:22	-6.3	48.1
04:23	-6.2	48.3
04:24	-6.1	48.5
04:25	-5.9	48.7
04:26	-5.8	48.8
04:27	-5.7	49.0
04:28	-5.5	49.2
04:29	-5.4	49.4
04:30	-5.3	49.6
04:31	-5.1	49.8
04:32	-5.0	50.0
04:33	-4.8	50.1
04:34	-4.7	50.3
04:35	-4.6	50.5
04:36	-4.4	50.7
04:37	-4.3	50.9
04:38	-4.2	51.1
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04:40	-3.9	51.4
04:41	-3.7	51.6
04:42	-3.6	51.8
04:43	-3.5	52.0
04:44	-3.3	52.1
04:45	-3.2	52.3
04:46	-3.0	52.5
04:47	-2.9	52.7
04:48	-2.7	52.9
04:49	-2.6	53.0
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06:20	11.6	68.4
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09:58	49.8	107.1
09:59	49.9	107.3
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10:15	52.6	111.3

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10:50	58.2	121.5
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10:57	59.3	123.8
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11:03	60.2	125.9
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11:07	60.8	127.4
11:08	60.9	127.7
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11:10	61.2	128.5
11:11	61.3	128.9
11:12	61.5	129.3
11:13	61.6	129.6
11:14	61.7	130.0
11:15	61.9	130.4

11:16	62.0	130.8
11:17	62.1	131.2
11:18	62.3	131.6
11:19	62.4	132.0
11:20	62.5	132.4
11:21	62.7	132.8
11:22	62.8	133.2
11:23	62.9	133.6
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11:26	63.3	134.9
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11:59	66.9	150.8
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12:07	67.5	155.2
12:08	67.6	155.8
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12:11	67.8	157.5
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12:14	68.0	159.3
12:15	68.1	159.9

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12:44	69.1	178.0
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12:48	69.1	180.5
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12:50	69.1	181.8
12:51	69.1	182.4
12:52	69.1	183.1
12:53	69.1	183.7
12:54	69.0	184.4
12:55	69.0	185.0
12:56	69.0	185.6
12:57	69.0	186.3
12:58	69.0	186.9
12:59	69.0	187.6
13:00	68.9	188.2
13:01	68.9	188.8
13:02	68.9	189.5
13:03	68.8	190.1
13:04	68.8	190.7
13:05	68.8	191.3
13:06	68.7	192.0
13:07	68.7	192.6
13:08	68.7	193.2
13:09	68.6	193.8
13:10	68.6	194.4
13:11	68.5	195.1
13:12	68.5	195.7
13:13	68.4	196.3
13:14	68.4	196.9
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13:17	68.2	198.7
13:18	68.2	199.3
13:19	68.1	199.9
13:20	68.0	200.5
13:21	68.0	201.1
13:22	67.9	201.7
13:23	67.8	202.2
13:24	67.8	202.8
13:25	67.7	203.4
13:26	67.6	204.0
13:27	67.6	204.5
13:28	67.5	205.1
13:29	67.4	205.7
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