

**Human Performance Group Chairman's Factual Report**

**Gray Summit, Missouri  
HWY-10-MH-018**

**Attachment 22: Astronomical Data**

(3; pages)

**U.S. Naval Observatory  
Astronomical Applications Department**

**Sun and Moon Data for One Day**

The following information is provided for Pacific, Franklin County, Missouri (longitude W90.8, latitude N38.5):

Thursday		
5 August 2010	Central Daylight Time	
	<b>SUN</b>	
Begin civil twilight		5:39 a.m.
Sunrise		6:08 a.m.
Sun transit		1:09 p.m.
Sunset		8:09 p.m.
End civil twilight		8:38 p.m.
	<b>MOON</b>	
Moonset		3:28 p.m. on preceding day
Moonrise		1:04 a.m.
Moon transit		8:46 a.m.
Moonset		4:30 p.m.
Moonrise		2:00 a.m. on following day

Phase of the Moon on 5 August: waning crescent with 25% of the Moon's visible disk illuminated.

Last quarter Moon on 2 August 2010 at 11:59 p.m. Central Daylight Time.

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

PACIFIC, MISSOURI

° / ° /  
 W 90 45, N38 29

Altitude and Azimuth of the Sun  
 Aug 5, 2010  
 Central Standard Time

	Altitude	Azimuth
		(E of N)
h m	°	°
04:04	-12.0	56.7
04:05	-11.8	56.9
04:06	-11.6	57.1
04:07	-11.5	57.2
04:08	-11.3	57.4
04:09	-11.1	57.6
04:10	-11.0	57.8
04:11	-10.8	58.0
04:12	-10.6	58.1
04:13	-10.5	58.3
04:14	-10.3	58.5
04:15	-10.1	58.6
04:16	-10.0	58.8
04:17	-9.8	59.0
04:18	-9.6	59.2
04:19	-9.5	59.3
04:20	-9.3	59.5
04:21	-9.1	59.7
04:22	-9.0	59.9
04:23	-8.8	60.0
04:24	-8.6	60.2
04:25	-8.5	60.4
04:26	-8.3	60.5
04:27	-8.1	60.7
04:28	-7.9	60.9
04:29	-7.8	61.0
04:30	-7.6	61.2
04:31	-7.4	61.4
04:32	-7.3	61.6
04:33	-7.1	61.7
04:34	-6.9	61.9
04:35	-6.7	62.1
04:36	-6.6	62.2
04:37	-6.4	62.4
04:38	-6.2	62.6
04:39	-6.1	62.7
04:40	-5.9	62.9
04:41	-5.7	63.0
04:42	-5.5	63.2
04:43	-5.4	63.4
04:44	-5.2	63.5
04:45	-5.0	63.7
04:46	-4.8	63.9
04:47	-4.7	64.0

04:48	-4.5	64.2
04:49	-4.3	64.4
04:50	-4.1	64.5
04:51	-3.9	64.7
04:52	-3.8	64.8
04:53	-3.6	65.0
04:54	-3.4	65.2
04:55	-3.2	65.3
04:56	-3.1	65.5
04:57	-2.9	65.6
04:58	-2.7	65.8
04:59	-2.5	66.0
05:00	-2.3	66.1
05:01	-2.2	66.3
05:02	-2.0	66.4
05:03	-1.8	66.6
05:04	-1.6	66.8
05:05	-1.4	66.9
05:06	-1.3	67.1
05:07	-1.1	67.2
05:08	-0.9	67.4
05:09	-0.1	67.5
05:10	0.0	67.7
05:11	0.2	67.9
05:12	0.3	68.0
05:13	0.5	68.2
05:14	0.6	68.3
05:15	0.8	68.5
05:16	1.0	68.6
05:17	1.1	68.8
05:18	1.3	68.9
05:19	1.4	69.1
05:20	1.6	69.2
05:21	1.8	69.4
05:22	2.0	69.6
05:23	2.1	69.7
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05:32	3.7	71.1
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05:37	4.6	71.8
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05:43	5.7	72.7
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05:45	6.0	73.0
05:46	6.2	73.2
05:47	6.4	73.3

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09:27	48.6	109.9
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09:46	52.1	114.6
09:47	52.2	114.9



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09:49	52.6	115.4
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09:52	53.1	116.2
09:53	53.3	116.5
09:54	53.5	116.7
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10:08	55.9	120.8
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10:13	56.7	122.3
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10:17	57.4	123.6
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10:28	59.1	127.3
10:29	59.3	127.7
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10:31	59.6	128.4
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10:43	61.4	133.0
10:44	61.5	133.4
10:45	61.6	133.8
10:46	61.8	134.2
10:47	61.9	134.6

10:48	62.1	135.0
10:49	62.2	135.5
10:50	62.3	135.9
10:51	62.5	136.3
10:52	62.6	136.7
10:53	62.7	137.2
10:54	62.9	137.6
10:55	63.0	138.0
10:56	63.1	138.5
10:57	63.3	138.9
10:58	63.4	139.4
10:59	63.5	139.8
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11:02	63.9	141.2
11:03	64.0	141.7
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11:07	64.5	143.6
11:08	64.6	144.1
11:09	64.7	144.6
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11:11	64.9	145.6
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11:13	65.2	146.6
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11:15	65.4	147.6
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11:17	65.6	148.6
11:18	65.7	149.2
11:19	65.8	149.7
11:20	65.9	150.2
11:21	66.0	150.8
11:22	66.1	151.3
11:23	66.2	151.9
11:24	66.2	152.4
11:25	66.3	153.0
11:26	66.4	153.5
11:27	66.5	154.1
11:28	66.6	154.6
11:29	66.7	155.2
11:30	66.8	155.8
11:31	66.8	156.3
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11:35	67.1	158.7
11:36	67.2	159.3
11:37	67.3	159.8
11:38	67.3	160.4
11:39	67.4	161.0
11:40	67.5	161.6
11:41	67.5	162.2
11:42	67.6	162.9
11:43	67.6	163.5
11:44	67.7	164.1
11:45	67.8	164.7
11:46	67.8	165.3
11:47	67.9	165.9

11:48	67.9	166.6
11:49	67.9	167.2
11:50	68.0	167.8
11:51	68.0	168.4
11:52	68.1	169.1
11:53	68.1	169.7
11:54	68.1	170.3
11:55	68.2	171.0
11:56	68.2	171.6
11:57	68.2	172.3
11:58	68.2	172.9
11:59	68.3	173.5
12:00	68.3	174.2
12:01	68.3	174.8
12:02	68.3	175.5
12:03	68.3	176.1
12:04	68.3	176.8
12:05	68.4	177.4
12:06	68.4	178.1
12:07	68.4	178.7
12:08	68.4	179.4
12:09	68.4	180.0
12:10	68.4	180.7
12:11	68.4	181.3
12:12	68.4	182.0
12:13	68.4	182.6
12:14	68.3	183.3
12:15	68.3	183.9
12:16	68.3	184.6
12:17	68.3	185.2
12:18	68.3	185.8
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12:20	68.2	187.1
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12:23	68.2	189.0
12:24	68.1	189.7
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12:27	68.0	191.6
12:28	68.0	192.2
12:29	67.9	192.8
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12:31	67.8	194.1
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12:34	67.7	195.9
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12:36	67.6	197.2
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12:38	67.5	198.4
12:39	67.4	199.0
12:40	67.3	199.6
12:41	67.3	200.2
12:42	67.2	200.8
12:43	67.1	201.4
12:44	67.1	201.9
12:45	67.0	202.5
12:46	66.9	203.1
12:47	66.8	203.7

12:48	66.7	204.2
12:49	66.7	204.8
12:50	66.6	205.4
12:51	66.5	205.9
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12:55	66.1	208.2
12:56	66.0	208.7
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12:59	65.8	210.3
13:00	65.7	210.8
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13:06	65.0	213.9
13:07	64.9	214.4
13:08	64.8	214.9
13:09	64.7	215.4
13:10	64.6	215.9
13:11	64.5	216.4
13:12	64.3	216.9
13:13	64.2	217.4
13:14	64.1	217.8
13:15	64.0	218.3
13:16	63.9	218.8
13:17	63.7	219.2
13:18	63.6	219.7
13:19	63.5	220.2
13:20	63.4	220.6
13:21	63.2	221.1
13:22	63.1	221.5
13:23	63.0	221.9
13:24	62.8	222.4
13:25	62.7	222.8
13:26	62.6	223.3
13:27	62.4	223.7
13:28	62.3	224.1
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13:30	62.0	224.9
13:31	61.9	225.4
13:32	61.8	225.8
13:33	61.6	226.2
13:34	61.5	226.6
13:35	61.3	227.0
13:36	61.2	227.4
13:37	61.0	227.8
13:38	60.9	228.2
13:39	60.7	228.6
13:40	60.6	228.9
13:41	60.5	229.3
13:42	60.3	229.7
13:43	60.2	230.1
13:44	60.0	230.5
13:45	59.9	230.8
13:46	59.7	231.2
13:47	59.5	231.6

13:48	59.4	231.9
13:49	59.2	232.3
13:50	59.1	232.6
13:51	58.9	233.0
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20:12	-11.8	302.8
20:13	-11.9	303.0

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