

## Aufgang/Untergang

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 1°3'13"S  
 Län.: 25°26' 6"W

### Objekt

Planet:  
 Jupiter

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
01-01-2010	10:45	110°54' 56"	15:40	+25°57' 35"	20:35	249°07' 53"	08:31	16:32	17:37	09:01
02-01-2010	10:41	110°48' 04"	15:37	+26°01' 48"	20:32	249°14' 47"	08:31	16:34	19:06	09:34
03-01-2010	10:38	110°41' 08"	15:33	+26°06' 03"	20:29	249°21' 44"	08:31	16:35	20:34	10:00
04-01-2010	10:34	110°34' 10"	15:30	+26°10' 20"	20:27	249°28' 44"	08:30	16:36	21:59	10:21
05-01-2010	10:31	110°27' 08"	15:27	+26°14' 38"	20:24	249°35' 48"	08:30	16:37	23:21	10:39
06-01-2010	10:27	110°20' 03"	15:24	+26°18' 59"	20:21	249°42' 54"	08:30	16:38	---	10:56
07-01-2010	10:24	110°12' 55"	15:21	+26°23' 22"	20:18	249°50' 04"	08:30	16:39	00:41	11:15
08-01-2010	10:20	110°05' 44"	15:18	+26°27' 47"	20:16	249°57' 16"	08:29	16:41	01:59	11:35
09-01-2010	10:16	109°58' 30"	15:15	+26°32' 14"	20:13	250°04' 32"	08:29	16:42	03:16	12:00
10-01-2010	10:13	109°51' 13"	15:12	+26°36' 43"	20:10	250°11' 50"	08:28	16:43	04:29	12:30
11-01-2010	10:09	109°43' 53"	15:08	+26°41' 14"	20:07	250°19' 11"	08:28	16:45	05:37	13:10
12-01-2010	10:06	109°36' 30"	15:05	+26°45' 46"	20:05	250°26' 36"	08:27	16:46	06:36	13:59
13-01-2010	10:02	109°29' 04"	15:02	+26°50' 21"	20:02	250°34' 03"	08:26	16:48	07:23	14:57
14-01-2010	09:59	109°21' 36"	14:59	+26°54' 57"	19:59	250°41' 32"	08:26	16:49	08:01	16:02
15-01-2010	09:55	109°14' 05"	14:56	+26°59' 35"	19:57	250°49' 05"	08:25	16:51	08:29	17:10
16-01-2010	09:52	109°06' 32"	14:53	+27°04' 15"	19:54	250°56' 40"	08:24	16:52	08:52	18:18
17-01-2010	09:48	108°58' 55"	14:50	+27°08' 56"	19:51	251°04' 17"	08:23	16:54	09:10	19:27
18-01-2010	09:45	108°51' 17"	14:47	+27°13' 39"	19:49	251°11' 57"	08:22	16:55	09:26	20:34
19-01-2010	09:41	108°43' 36"	14:44	+27°18' 24"	19:46	251°19' 39"	08:21	16:57	09:40	21:41
20-01-2010	09:38	108°35' 52"	14:41	+27°23' 10"	19:43	251°27' 24"	08:20	16:58	09:54	22:49
21-01-2010	09:35	108°28' 06"	14:38	+27°27' 58"	19:41	251°35' 11"	08:19	17:00	10:09	23:58
22-01-2010	09:31	108°20' 18"	14:34	+27°32' 48"	19:38	251°43' 01"	08:18	17:02	10:26	---
23-01-2010	09:28	108°12' 27"	14:31	+27°37' 39"	19:35	251°50' 52"	08:17	17:03	10:46	01:10
24-01-2010	09:24	108°04' 35"	14:28	+27°42' 31"	19:33	251°58' 46"	08:16	17:05	11:12	02:25
25-01-2010	09:21	107°56' 40"	14:25	+27°47' 25"	19:30	252°06' 42"	08:15	17:07	11:48	03:40
26-01-2010	09:17	107°48' 43"	14:22	+27°52' 20"	19:27	252°14' 40"	08:13	17:08	12:36	04:53
27-01-2010	09:14	107°40' 44"	14:19	+27°57' 17"	19:25	252°22' 40"	08:12	17:10	13:41	05:57
28-01-2010	09:10	107°32' 44"	14:16	+28°02' 15"	19:22	252°30' 42"	08:11	17:12	15:00	06:49
29-01-2010	09:07	107°24' 41"	14:13	+28°07' 15"	19:20	252°38' 46"	08:10	17:13	16:28	07:28
30-01-2010	09:03	107°16' 36"	14:10	+28°12' 15"	19:17	252°46' 52"	08:08	17:15	17:59	07:58

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	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
31-01-2010	09:00	107°08' 30"	14:07	+28°17' 17"	19:14	252°54' 59"	08:07	17:17	19:29	08:22
01-02-2010	08:56	107°00' 21"	14:04	+28°22' 20"	19:12	253°03' 09"	08:05	17:19	20:55	08:42
02-02-2010	08:53	106°52' 11"	14:01	+28°27' 25"	19:09	253°11' 20"	08:04	17:20	22:19	09:01
03-02-2010	08:49	106°43' 59"	13:58	+28°32' 31"	19:06	253°19' 33"	08:02	17:22	23:41	09:19
04-02-2010	08:46	106°35' 46"	13:55	+28°37' 37"	19:04	253°27' 47"	08:01	17:24	---	09:40
05-02-2010	08:42	106°27' 31"	13:52	+28°42' 45"	19:01	253°36' 03"	07:59	17:26	01:01	10:03
06-02-2010	08:39	106°19' 14"	13:49	+28°47' 54"	18:59	253°44' 21"	07:57	17:27	02:18	10:32
07-02-2010	08:35	106°10' 56"	13:46	+28°53' 05"	18:56	253°52' 40"	07:56	17:29	03:29	11:09
08-02-2010	08:32	106°02' 36"	13:43	+28°58' 16"	18:53	254°01' 01"	07:54	17:31	04:31	11:55
09-02-2010	08:28	105°54' 14"	13:40	+29°03' 28"	18:51	254°09' 23"	07:52	17:33	05:22	12:50
10-02-2010	08:25	105°45' 52"	13:36	+29°08' 41"	18:48	254°17' 47"	07:51	17:35	06:02	13:53
11-02-2010	08:21	105°37' 28"	13:33	+29°13' 55"	18:46	254°26' 12"	07:49	17:36	06:33	15:00
12-02-2010	08:18	105°29' 03"	13:30	+29°19' 11"	18:43	254°34' 38"	07:47	17:38	06:58	16:08
13-02-2010	08:14	105°20' 36"	13:27	+29°24' 27"	18:41	254°43' 05"	07:45	17:40	07:17	17:17
14-02-2010	08:11	105°12' 09"	13:24	+29°29' 43"	18:38	254°51' 33"	07:44	17:42	07:34	18:24
15-02-2010	08:07	105°03' 40"	13:21	+29°35' 01"	18:35	255°00' 03"	07:42	17:43	07:49	19:32
16-02-2010	08:04	104°55' 10"	13:18	+29°40' 19"	18:33	255°08' 33"	07:40	17:45	08:03	20:39
17-02-2010	08:00	104°46' 40"	13:15	+29°45' 38"	18:30	255°17' 05"	07:38	17:47	08:18	21:48
18-02-2010	07:57	104°38' 08"	13:12	+29°50' 58"	18:28	255°25' 37"	07:36	17:49	08:34	22:58
19-02-2010	07:54	104°29' 36"	13:09	+29°56' 18"	18:25	255°34' 10"	07:34	17:50	08:52	---
20-02-2010	07:50	104°21' 02"	13:06	+30°01' 39"	18:22	255°42' 44"	07:32	17:52	09:16	00:11
21-02-2010	07:47	104°12' 29"	13:03	+30°07' 01"	18:20	255°51' 19"	07:30	17:54	09:46	01:24
22-02-2010	07:43	104°03' 54"	13:00	+30°12' 23"	18:17	255°59' 54"	07:28	17:56	10:28	02:36
23-02-2010	07:40	103°55' 19"	12:57	+30°17' 46"	18:15	256°08' 30"	07:26	17:57	11:23	03:42
24-02-2010	07:36	103°46' 43"	12:54	+30°23' 09"	18:12	256°17' 06"	07:24	17:59	12:32	04:37
25-02-2010	07:33	103°38' 06"	12:51	+30°28' 33"	18:10	256°25' 43"	07:22	18:01	13:54	05:21
26-02-2010	07:29	103°29' 29"	12:48	+30°33' 57"	18:07	256°34' 20"	07:20	18:02	15:22	05:55
27-02-2010	07:26	103°20' 52"	12:45	+30°39' 21"	18:04	256°42' 58"	07:18	18:04	16:51	06:21
28-02-2010	07:22	103°12' 14"	12:42	+30°44' 46"	18:02	256°51' 37"	07:16	18:06	18:20	06:43
01-03-2010	07:19	103°03' 36"	12:39	+30°50' 11"	17:59	257°00' 15"	07:14	18:08	19:46	07:03

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	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
02-03-2010	07:15	102°54' 58"	12:36	+30°55' 36"	17:57	257°08' 54"	07:12	18:09	21:12	07:22
03-03-2010	07:12	102°46' 19"	12:33	+31°01' 02"	17:54	257°17' 33"	07:10	18:11	22:36	07:42
04-03-2010	07:08	102°37' 40"	12:30	+31°06' 28"	17:52	257°26' 12"	07:08	18:13	23:57	08:05
05-03-2010	07:05	102°29' 01"	12:27	+31°11' 54"	17:49	257°34' 52"	07:06	18:14	---	08:33
06-03-2010	07:01	102°20' 22"	12:24	+31°17' 20"	17:46	257°43' 31"	07:04	18:16	01:13	09:08
07-03-2010	06:58	102°11' 43"	12:21	+31°22' 46"	17:44	257°52' 11"	07:01	18:18	02:20	09:51
08-03-2010	06:54	102°03' 03"	12:18	+31°28' 13"	17:41	258°00' 51"	06:59	18:19	03:16	10:44
09-03-2010	06:51	101°54' 24"	12:15	+31°33' 39"	17:39	258°09' 30"	06:57	18:21	04:01	11:45
10-03-2010	06:47	101°45' 45"	12:12	+31°39' 06"	17:36	258°18' 10"	06:55	18:23	04:35	12:50
11-03-2010	06:44	101°37' 06"	12:09	+31°44' 33"	17:33	258°26' 49"	06:53	18:24	05:02	13:58
12-03-2010	06:40	101°28' 27"	12:06	+31°49' 59"	17:31	258°35' 28"	06:51	18:26	05:23	15:06
13-03-2010	06:37	101°19' 49"	12:02	+31°55' 26"	17:28	258°44' 06"	06:48	18:28	05:41	16:14
14-03-2010	06:33	101°11' 11"	11:59	+32°00' 52"	17:26	258°52' 45"	06:46	18:29	05:56	17:21
15-03-2010	06:30	101°02' 33"	11:56	+32°06' 18"	17:23	259°01' 23"	06:44	18:31	06:11	18:29
16-03-2010	06:26	100°53' 55"	11:53	+32°11' 44"	17:21	259°10' 00"	06:42	18:33	06:26	19:38
17-03-2010	06:23	100°45' 19"	11:50	+32°17' 10"	17:18	259°18' 37"	06:40	18:34	06:42	20:48
18-03-2010	06:19	100°36' 42"	11:47	+32°22' 35"	17:15	259°27' 13"	06:37	18:36	07:00	22:00
19-03-2010	06:16	100°28' 07"	11:44	+32°28' 00"	17:13	259°35' 49"	06:35	18:37	07:22	23:14
20-03-2010	06:12	100°19' 32"	11:41	+32°33' 25"	17:10	259°44' 24"	06:33	18:39	07:50	---
21-03-2010	06:09	100°10' 58"	11:38	+32°38' 50"	17:08	259°52' 58"	06:31	18:41	08:28	00:26
22-03-2010	06:05	100°02' 24"	11:35	+32°44' 13"	17:05	260°01' 31"	06:29	18:42	09:17	01:32
23-03-2010	06:02	99°53' 52"	11:32	+32°49' 37"	17:02	260°10' 04"	06:26	18:44	10:20	02:30
24-03-2010	05:58	99°45' 20"	11:29	+32°55' 00"	17:00	260°18' 35"	06:24	18:46	11:34	03:16
25-03-2010	05:55	99°36' 50"	11:26	+33°00' 22"	16:57	260°27' 05"	06:22	18:47	12:56	03:53
26-03-2010	05:51	99°28' 20"	11:23	+33°05' 44"	16:54	260°35' 35"	06:20	18:49	14:22	04:21
27-03-2010	05:48	99°19' 52"	11:20	+33°11' 05"	16:52	260°44' 03"	06:18	18:50	15:48	04:44
28-03-2010	06:44	99°11' 24"	12:17	+33°16' 26"	17:49	260°52' 30"	07:15	19:52	18:13	06:05
29-03-2010	06:41	99°02' 58"	12:14	+33°21' 46"	17:47	261°00' 56"	07:13	19:54	19:39	06:24
30-03-2010	06:37	98°54' 33"	12:11	+33°27' 05"	17:44	261°09' 21"	07:11	19:55	21:04	06:44
31-03-2010	06:34	98°46' 09"	12:07	+33°32' 24"	17:41	261°17' 45"	07:09	19:57	22:27	07:05

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 Jupiter

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	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
01-04-2010	06:30	98°37' 47"	12:04	+33°37' 41"	17:39	261°26' 07"	07:07	19:58	23:48	07:31
02-04-2010	06:27	98°29' 26"	12:01	+33°42' 58"	17:36	261°34' 28"	07:04	20:00	---	08:04
03-04-2010	06:23	98°21' 06"	11:58	+33°48' 15"	17:33	261°42' 47"	07:02	20:02	01:01	08:44
04-04-2010	06:20	98°12' 47"	11:55	+33°53' 30"	17:31	261°51' 05"	07:00	20:03	02:04	09:35
05-04-2010	06:16	98°04' 31"	11:52	+33°58' 44"	17:28	261°59' 21"	06:58	20:05	02:55	10:34
06-04-2010	06:13	97°56' 15"	11:49	+34°03' 58"	17:25	262°07' 36"	06:56	20:06	03:33	11:39
07-04-2010	06:09	97°48' 02"	11:46	+34°09' 10"	17:23	262°15' 49"	06:54	20:08	04:03	12:46
08-04-2010	06:06	97°39' 50"	11:43	+34°14' 22"	17:20	262°24' 01"	06:51	20:10	04:26	13:54
09-04-2010	06:02	97°31' 39"	11:40	+34°19' 32"	17:17	262°32' 10"	06:49	20:11	04:46	15:02
10-04-2010	05:59	97°23' 31"	11:37	+34°24' 41"	17:15	262°40' 18"	06:47	20:13	05:02	16:09
11-04-2010	05:55	97°15' 25"	11:33	+34°29' 49"	17:12	262°48' 24"	06:45	20:14	05:17	17:17
12-04-2010	05:52	97°07' 20"	11:30	+34°34' 56"	17:09	262°56' 28"	06:43	20:16	05:32	18:25
13-04-2010	05:48	96°59' 17"	11:27	+34°40' 02"	17:07	263°04' 30"	06:41	20:18	05:48	19:35
14-04-2010	05:45	96°51' 17"	11:24	+34°45' 07"	17:04	263°12' 30"	06:39	20:19	06:06	20:48
15-04-2010	05:41	96°43' 18"	11:21	+34°50' 10"	17:01	263°20' 28"	06:37	20:21	06:27	22:01
16-04-2010	05:38	96°35' 22"	11:18	+34°55' 12"	16:58	263°28' 23"	06:35	20:22	06:54	23:15
17-04-2010	05:34	96°27' 28"	11:15	+35°00' 12"	16:56	263°36' 16"	06:32	20:24	07:29	---
18-04-2010	05:30	96°19' 37"	11:12	+35°05' 11"	16:53	263°44' 07"	06:30	20:26	08:15	00:24
19-04-2010	05:27	96°11' 47"	11:08	+35°10' 08"	16:50	263°51' 55"	06:28	20:27	09:14	01:25
20-04-2010	05:23	96°04' 00"	11:05	+35°15' 04"	16:47	263°59' 41"	06:26	20:29	10:25	02:14
21-04-2010	05:20	95°56' 16"	11:02	+35°19' 59"	16:45	264°07' 25"	06:24	20:30	11:43	02:53
22-04-2010	05:16	95°48' 34"	10:59	+35°24' 52"	16:42	264°15' 05"	06:22	20:32	13:05	03:23
23-04-2010	05:13	95°40' 55"	10:56	+35°29' 43"	16:39	264°22' 44"	06:20	20:33	14:28	03:47
24-04-2010	05:09	95°33' 18"	10:53	+35°34' 32"	16:36	264°30' 19"	06:18	20:35	15:51	04:08
25-04-2010	05:06	95°25' 44"	10:50	+35°39' 20"	16:34	264°37' 52"	06:17	20:37	17:13	04:27
26-04-2010	05:02	95°18' 13"	10:46	+35°44' 07"	16:31	264°45' 22"	06:15	20:38	18:36	04:46
27-04-2010	04:59	95°10' 45"	10:43	+35°48' 51"	16:28	264°52' 50"	06:13	20:40	19:59	05:07
28-04-2010	04:55	95°03' 19"	10:40	+35°53' 34"	16:25	265°00' 14"	06:11	20:41	21:21	05:30
29-04-2010	04:51	94°55' 56"	10:37	+35°58' 15"	16:23	265°07' 36"	06:09	20:43	22:38	06:00
30-04-2010	04:48	94°48' 37"	10:34	+36°02' 54"	16:20	265°14' 54"	06:07	20:44	23:47	06:37

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01-05-2010	04:44	94° 41 ' 20"	10:31	+36° 07 ' 31"	16:17	265° 22 ' 10"	06:05	20:46	---	07:24
02-05-2010	04:41	94° 34 ' 06"	10:27	+36° 12 ' 06"	16:14	265° 29 ' 22"	06:04	20:48	00:44	08:20
03-05-2010	04:37	94° 26 ' 55"	10:24	+36° 16 ' 39"	16:11	265° 36 ' 32"	06:02	20:49	01:28	09:24
04-05-2010	04:34	94° 19 ' 48"	10:21	+36° 21 ' 11"	16:08	265° 43 ' 38"	06:00	20:51	02:02	10:32
05-05-2010	04:30	94° 12 ' 44"	10:18	+36° 25 ' 40"	16:06	265° 50 ' 41"	05:58	20:52	02:28	11:40
06-05-2010	04:26	94° 05 ' 43"	10:14	+36° 30 ' 07"	16:03	265° 57 ' 40"	05:57	20:54	02:49	12:48
07-05-2010	04:23	93° 58 ' 45"	10:11	+36° 34 ' 32"	16:00	266° 04 ' 36"	05:55	20:55	03:07	13:56
08-05-2010	04:19	93° 51 ' 51"	10:08	+36° 38 ' 55"	15:57	266° 11 ' 29"	05:53	20:57	03:22	15:02
09-05-2010	04:16	93° 45 ' 01"	10:05	+36° 43 ' 15"	15:54	266° 18 ' 18"	05:52	20:58	03:37	16:10
10-05-2010	04:12	93° 38 ' 14"	10:02	+36° 47 ' 34"	15:51	266° 25 ' 03"	05:50	21:00	03:53	17:19
11-05-2010	04:09	93° 31 ' 30"	09:58	+36° 51 ' 50"	15:48	266° 31 ' 45"	05:49	21:01	04:10	18:30
12-05-2010	04:05	93° 24 ' 50"	09:55	+36° 56 ' 03"	15:45	266° 38 ' 23"	05:47	21:03	04:30	19:44
13-05-2010	04:01	93° 18 ' 14"	09:52	+37° 00 ' 15"	15:42	266° 44 ' 58"	05:46	21:04	04:55	20:59
14-05-2010	03:58	93° 11 ' 42"	09:48	+37° 04 ' 23"	15:40	266° 51 ' 28"	05:44	21:06	05:27	22:11
15-05-2010	03:54	93° 05 ' 14"	09:45	+37° 08 ' 30"	15:37	266° 57 ' 54"	05:43	21:07	06:10	23:17
16-05-2010	03:51	92° 58 ' 50"	09:42	+37° 12 ' 33"	15:34	267° 04 ' 17"	05:41	21:09	07:06	---
17-05-2010	03:47	92° 52 ' 30"	09:39	+37° 16 ' 35"	15:31	267° 10 ' 35"	05:40	21:10	08:15	00:11
18-05-2010	03:43	92° 46 ' 14"	09:35	+37° 20 ' 33"	15:28	267° 16 ' 49"	05:39	21:11	09:33	00:53
19-05-2010	03:40	92° 40 ' 02"	09:32	+37° 24 ' 29"	15:25	267° 22 ' 59"	05:37	21:13	10:54	01:26
20-05-2010	03:36	92° 33 ' 54"	09:29	+37° 28 ' 23"	15:22	267° 29 ' 05"	05:36	21:14	12:17	01:52
21-05-2010	03:33	92° 27 ' 51"	09:25	+37° 32 ' 13"	15:19	267° 35 ' 07"	05:35	21:15	13:38	02:13
22-05-2010	03:29	92° 21 ' 51"	09:22	+37° 36 ' 01"	15:16	267° 41 ' 04"	05:34	21:17	14:59	02:32
23-05-2010	03:25	92° 15 ' 57"	09:19	+37° 39 ' 46"	15:13	267° 46 ' 57"	05:32	21:18	16:19	02:51
24-05-2010	03:22	92° 10 ' 06"	09:15	+37° 43 ' 29"	15:10	267° 52 ' 45"	05:31	21:19	17:40	03:10
25-05-2010	03:18	92° 04 ' 20"	09:12	+37° 47 ' 08"	15:07	267° 58 ' 29"	05:30	21:20	19:00	03:32
26-05-2010	03:14	91° 58 ' 39"	09:09	+37° 50 ' 45"	15:04	268° 04 ' 08"	05:29	21:22	20:18	03:59
27-05-2010	03:11	91° 53 ' 02"	09:05	+37° 54 ' 18"	15:01	268° 09 ' 43"	05:28	21:23	21:30	04:32
28-05-2010	03:07	91° 47 ' 30"	09:02	+37° 57 ' 49"	14:57	268° 15 ' 13"	05:27	21:24	22:32	05:14
29-05-2010	03:03	91° 42 ' 02"	08:59	+38° 01 ' 17"	14:54	268° 20 ' 38"	05:26	21:25	23:21	06:07
30-05-2010	03:00	91° 36 ' 40"	08:55	+38° 04 ' 41"	14:51	268° 25 ' 58"	05:26	21:26	---	07:08

## Aufgang/Untergang

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 1°3'13"S  
 Län.: 25°26' 6"W

### Objekt

Planet:  
 Jupiter

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
31-05-2010	02:56	91°31' 22"	08:52	+38°08' 03"	14:48	268°31' 14"	05:25	21:27	00:00	08:16
01-06-2010	02:53	91°26' 09"	08:49	+38°11' 21"	14:45	268°36' 25"	05:24	21:28	00:29	09:25
02-06-2010	02:49	91°21' 01"	08:45	+38°14' 37"	14:42	268°41' 30"	05:23	21:29	00:52	10:34
03-06-2010	02:45	91°15' 58"	08:42	+38°17' 49"	14:39	268°46' 31"	05:23	21:30	01:11	11:41
04-06-2010	02:42	91°11' 00"	08:38	+38°20' 58"	14:36	268°51' 27"	05:22	21:31	01:27	12:48
05-06-2010	02:38	91°06' 07"	08:35	+38°24' 03"	14:32	268°56' 17"	05:21	21:32	01:42	13:54
06-06-2010	02:34	91°01' 19"	08:32	+38°27' 05"	14:29	269°01' 02"	05:21	21:33	01:57	15:02
07-06-2010	02:31	90°56' 37"	08:28	+38°30' 04"	14:26	269°05' 42"	05:20	21:34	02:13	16:11
08-06-2010	02:27	90°52' 00"	08:25	+38°33' 00"	14:23	269°10' 16"	05:20	21:35	02:32	17:24
09-06-2010	02:23	90°47' 29"	08:21	+38°35' 51"	14:20	269°14' 45"	05:19	21:36	02:54	18:38
10-06-2010	02:20	90°43' 03"	08:18	+38°38' 40"	14:16	269°19' 08"	05:19	21:36	03:23	19:52
11-06-2010	02:16	90°38' 42"	08:14	+38°41' 25"	14:13	269°23' 26"	05:19	21:37	04:02	21:01
12-06-2010	02:12	90°34' 28"	08:11	+38°44' 06"	14:10	269°27' 38"	05:19	21:38	04:53	22:02
13-06-2010	02:08	90°30' 18"	08:07	+38°46' 44"	14:07	269°31' 44"	05:18	21:38	05:58	22:50
14-06-2010	02:05	90°26' 15"	08:04	+38°49' 18"	14:03	269°35' 44"	05:18	21:39	07:15	23:27
15-06-2010	02:01	90°22' 18"	08:00	+38°51' 48"	14:00	269°39' 39"	05:18	21:39	08:38	23:55
16-06-2010	01:57	90°18' 26"	07:57	+38°54' 14"	13:57	269°43' 28"	05:18	21:40	10:03	---
17-06-2010	01:54	90°14' 40"	07:53	+38°56' 37"	13:53	269°47' 10"	05:18	21:40	11:26	00:19
18-06-2010	01:50	90°10' 23"	07:50	+38°58' 56"	13:50	269°50' 47"	05:18	21:40	12:48	00:39
19-06-2010	01:46	90°06' 50"	07:46	+39°01' 11"	13:47	269°54' 18"	05:18	21:41	14:08	00:57
20-06-2010	01:42	90°03' 23"	07:43	+39°03' 22"	13:43	269°57' 42"	05:18	21:41	15:28	01:16
21-06-2010	01:39	90°00' 02"	07:39	+39°05' 29"	13:40	270°01' 01"	05:18	21:41	16:47	01:37
22-06-2010	01:35	89°56' 48"	07:36	+39°07' 33"	13:36	270°04' 13"	05:19	21:41	18:04	02:01
23-06-2010	01:31	89°53' 40"	07:32	+39°09' 32"	13:33	270°07' 19"	05:19	21:42	19:17	02:32
24-06-2010	01:27	89°50' 37"	07:28	+39°11' 28"	13:30	270°10' 19"	05:19	21:42	20:22	03:10
25-06-2010	01:24	89°47' 42"	07:25	+39°13' 19"	13:26	270°13' 12"	05:20	21:42	21:16	03:58
26-06-2010	01:20	89°44' 52"	07:21	+39°15' 06"	13:23	270°15' 59"	05:20	21:42	21:58	04:56
27-06-2010	01:16	89°42' 09"	07:18	+39°16' 49"	13:19	270°18' 40"	05:20	21:42	22:30	06:01
28-06-2010	01:12	89°39' 33"	07:14	+39°18' 29"	13:16	270°21' 14"	05:21	21:41	22:55	07:10
29-06-2010	01:09	89°37' 03"	07:10	+39°20' 04"	13:12	270°23' 42"	05:21	21:41	23:16	08:19

## Aufgang/Untergang

### Datum/Standort

Datum: 01-01-2010  
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### Objekt

Planet:  
 Jupiter

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
30-06-2010	01:05	89°34' 39"	07:07	+39°21' 34"	13:09	270°26' 03"	05:22	21:41	23:33	09:27
01-07-2010	01:01	89°32' 23"	07:03	+39°23' 01"	13:05	270°28' 17"	05:23	21:41	23:48	10:34
02-07-2010	00:57	89°30' 12"	06:59	+39°24' 23"	13:01	270°30' 25"	05:23	21:41	---	11:41
03-07-2010	00:54	89°28' 09"	06:56	+39°25' 41"	12:58	270°32' 25"	05:24	21:40	00:03	12:47
04-07-2010	00:50	89°26' 13"	06:52	+39°26' 55"	12:54	270°34' 19"	05:25	21:40	00:19	13:55
05-07-2010	00:46	89°24' 23"	06:48	+39°28' 04"	12:51	270°36' 06"	05:26	21:39	00:36	15:04
06-07-2010	00:42	89°22' 40"	06:45	+39°29' 09"	12:47	270°37' 47"	05:26	21:39	00:56	16:16
07-07-2010	00:38	89°21' 04"	06:41	+39°30' 09"	12:43	270°39' 20"	05:27	21:38	01:21	17:29
08-07-2010	00:35	89°19' 35"	06:37	+39°31' 05"	12:40	270°40' 46"	05:28	21:38	01:54	18:41
09-07-2010	00:31	89°18' 14"	06:33	+39°31' 57"	12:36	270°42' 05"	05:29	21:37	02:38	19:46
10-07-2010	00:27	89°16' 59"	06:30	+39°32' 44"	12:32	270°43' 56"	05:30	21:36	03:37	20:40
11-07-2010	00:23	89°15' 51"	06:26	+39°33' 26"	12:29	270°44' 58"	05:31	21:36	04:49	21:23
12-07-2010	00:19	89°14' 51"	06:22	+39°34' 04"	12:25	270°45' 52"	05:32	21:35	06:12	21:56
13-07-2010	00:15	89°13' 57"	06:18	+39°34' 38"	12:21	270°46' 40"	05:33	21:34	07:39	22:22
14-07-2010	00:12	89°13' 11"	06:14	+39°35' 06"	12:17	270°47' 20"	05:34	21:33	09:06	22:43
15-07-2010	00:08	89°12' 32"	06:11	+39°35' 31"	12:14	270°47' 53"	05:35	21:32	10:31	23:03
16-07-2010	00:04	89°12' 01"	06:07	+39°35' 50"	12:10	270°48' 19"	05:36	21:31	11:54	23:22
17-07-2010	00:00	89°11' 36"	06:03	+39°36' 05"	12:06	270°48' 38"	05:38	21:30	13:15	23:43
18-07-2010	23:56(-1T)	89°11' 19"	05:59	+39°36' 16"	12:02	270°48' 50"	05:39	21:29	14:36	---
19-07-2010	23:52(-1T)	89°11' 09"	05:55	+39°36' 21"	11:58	270°48' 54"	05:40	21:28	15:54	00:06
20-07-2010	23:48(-1T)	89°11' 06"	05:51	+39°36' 23"	11:54	270°48' 51"	05:41	21:27	17:08	00:34
21-07-2010	23:45(-1T)	89°11' 11"	05:47	+39°36' 19"	11:50	270°48' 41"	05:42	21:26	18:15	01:10
22-07-2010	23:41(-1T)	89°11' 22"	05:44	+39°36' 11"	11:47	270°48' 23"	05:44	21:25	19:12	01:54
23-07-2010	23:37(-1T)	89°11' 41"	05:40	+39°35' 59"	11:43	270°47' 58"	05:45	21:23	19:57	02:48
24-07-2010	23:33(-1T)	89°12' 07"	05:36	+39°35' 42"	11:39	270°47' 26"	05:46	21:22	20:32	03:50
25-07-2010	23:29(-1T)	89°12' 41"	05:32	+39°35' 20"	11:35	270°46' 47"	05:48	21:21	21:00	04:58
26-07-2010	23:25(-1T)	89°13' 22"	05:28	+39°34' 53"	11:31	270°46' 01"	05:49	21:19	21:21	06:07
27-07-2010	23:21(-1T)	89°14' 09"	05:24	+39°34' 22"	11:27	270°45' 07"	05:50	21:18	21:39	07:15
28-07-2010	23:17(-1T)	89°15' 04"	05:20	+39°33' 47"	11:23	270°44' 06"	05:52	21:17	21:55	08:23
29-07-2010	23:13(-1T)	89°16' 07"	05:16	+39°33' 07"	11:19	270°42' 58"	05:53	21:15	22:11	09:29

## Aufgang/Untergang

### Datum/Standort

Datum: 01-01-2010  
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 Br.: 1°3'13"S  
 Län.: 25°26' 6"W

### Objekt

Planet:  
 Jupiter

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
30-07-2010	23:09(-1T)	89° 17 ' 16"	05:12	+39° 32 ' 22"	11:15	270° 41 ' 43"	05:54	21:14	22:26	10:35
31-07-2010	23:05(-1T)	89° 18 ' 33"	05:08	+39° 31 ' 33"	11:10	270° 40 ' 21"	05:56	21:12	22:42	11:42
01-08-2010	23:01(-1T)	89° 19 ' 57"	05:04	+39° 30 ' 39"	11:06	270° 38 ' 51"	05:57	21:11	23:00	12:50
02-08-2010	22:57(-1T)	89° 21 ' 28"	05:00	+39° 29 ' 40"	11:02	270° 37 ' 14"	05:59	21:09	23:22	13:59
03-08-2010	22:54(-1T)	89° 23 ' 06"	04:56	+39° 28 ' 37"	10:58	270° 35 ' 30"	06:00	21:07	23:51	15:10
04-08-2010	22:50(-1T)	89° 24 ' 51"	04:52	+39° 27 ' 30"	10:54	270° 34 ' 18"	06:02	21:06	---	16:21
05-08-2010	22:46(-1T)	89° 26 ' 44"	04:48	+39° 26 ' 18"	10:50	270° 32 ' 24"	06:03	21:04	00:29	17:28
06-08-2010	22:42(-1T)	89° 28 ' 43"	04:44	+39° 25 ' 01"	10:46	270° 30 ' 22"	06:05	21:02	01:19	18:26
07-08-2010	22:38(-1T)	89° 30 ' 49"	04:40	+39° 23 ' 41"	10:41	270° 28 ' 13"	06:06	21:01	02:23	19:14
08-08-2010	22:34(-1T)	89° 33 ' 02"	04:35	+39° 22 ' 15"	10:37	270° 25 ' 57"	06:07	20:59	03:41	19:51
09-08-2010	22:30(-1T)	89° 35 ' 22"	04:31	+39° 20 ' 46"	10:33	270° 23 ' 35"	06:09	20:57	05:06	20:21
10-08-2010	22:26(-1T)	89° 37 ' 49"	04:27	+39° 19 ' 12"	10:29	270° 21 ' 06"	06:10	20:55	06:34	20:45
11-08-2010	22:22(-1T)	89° 40 ' 23"	04:23	+39° 17 ' 34"	10:24	270° 18 ' 30"	06:12	20:54	08:02	21:07
12-08-2010	22:18(-1T)	89° 43 ' 03"	04:19	+39° 15 ' 52"	10:20	270° 15 ' 48"	06:13	20:52	09:29	21:27
13-08-2010	22:14(-1T)	89° 45 ' 49"	04:15	+39° 14 ' 05"	10:16	270° 12 ' 59"	06:15	20:50	10:54	21:47
14-08-2010	22:10(-1T)	89° 48 ' 42"	04:11	+39° 12 ' 15"	10:11	270° 10 ' 04"	06:16	20:48	12:18	22:10
15-08-2010	22:06(-1T)	89° 51 ' 41"	04:06	+39° 10 ' 20"	10:07	270° 07 ' 03"	06:18	20:46	13:40	22:38
16-08-2010	22:02(-1T)	89° 54 ' 47"	04:02	+39° 08 ' 22"	10:03	270° 03 ' 55"	06:19	20:44	14:57	23:11
17-08-2010	21:58(-1T)	89° 57 ' 58"	03:58	+39° 06 ' 20"	09:58	270° 00 ' 42"	06:21	20:42	16:07	23:53
18-08-2010	21:53(-1T)	90° 01 ' 16"	03:54	+39° 04 ' 14"	09:54	269° 57 ' 22"	06:22	20:40	17:08	---
19-08-2010	21:49(-1T)	90° 04 ' 39"	03:50	+39° 02 ' 04"	09:50	269° 53 ' 57"	06:24	20:38	17:56	00:44
20-08-2010	21:45(-1T)	90° 08 ' 08"	03:45	+38° 59 ' 51"	09:45	269° 50 ' 26"	06:26	20:36	18:34	01:43
21-08-2010	21:41(-1T)	90° 11 ' 42"	03:41	+38° 57 ' 34"	09:41	269° 46 ' 50"	06:27	20:34	19:04	02:49
22-08-2010	21:37(-1T)	90° 15 ' 22"	03:37	+38° 55 ' 14"	09:36	269° 43 ' 08"	06:29	20:32	19:27	03:57
23-08-2010	21:33(-1T)	90° 19 ' 08"	03:33	+38° 52 ' 50"	09:32	269° 39 ' 21"	06:30	20:30	19:46	05:05
24-08-2010	21:29(-1T)	90° 22 ' 58"	03:28	+38° 50 ' 23"	09:27	269° 35 ' 29"	06:32	20:28	20:03	06:13
25-08-2010	21:25(-1T)	90° 26 ' 54"	03:24	+38° 47 ' 53"	09:23	269° 31 ' 32"	06:33	20:26	20:19	07:20
26-08-2010	21:21(-1T)	90° 30 ' 54"	03:20	+38° 45 ' 19"	09:18	269° 27 ' 30"	06:35	20:24	20:34	08:26
27-08-2010	21:17(-1T)	90° 35 ' 00"	03:16	+38° 42 ' 43"	09:14	269° 23 ' 23"	06:36	20:22	20:49	09:32
28-08-2010	21:13(-1T)	90° 39 ' 10"	03:11	+38° 40 ' 04"	09:09	269° 19 ' 11"	06:38	20:20	21:07	10:39

## Aufgang/Untergang

### Datum/Standort

Datum: 01-01-2010  
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### Objekt

Planet:  
 Jupiter

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
29-08-2010	21:09(-1T)	90°43' 24"	03:07	+38°37' 22"	09:05	269°14' 56"	06:39	20:18	21:28	11:47
30-08-2010	21:05(-1T)	90°47' 43"	03:03	+38°34' 37"	09:00	269°10' 35"	06:41	20:16	21:54	12:57
31-08-2010	21:00(-1T)	90°52' 06"	02:58	+38°31' 49"	08:56	269°06' 11"	06:42	20:14	22:27	14:06
01-09-2010	20:56(-1T)	90°56' 33"	02:54	+38°28' 59"	08:51	269°01' 43"	06:44	20:12	23:10	15:13
02-09-2010	20:52(-1T)	91°01' 04"	02:50	+38°26' 07"	08:47	268°57' 11"	06:45	20:09	---	16:13
03-09-2010	20:48(-1T)	91°05' 38"	02:45	+38°23' 12"	08:42	268°52' 36"	06:47	20:07	00:07	17:04
04-09-2010	20:44(-1T)	91°10' 16"	02:41	+38°20' 15"	08:37	268°47' 57"	06:48	20:05	01:16	17:45
05-09-2010	20:40(-1T)	91°14' 57"	02:37	+38°17' 16"	08:33	268°43' 15"	06:50	20:03	02:35	18:18
06-09-2010	20:36(-1T)	91°19' 41"	02:32	+38°14' 15"	08:28	268°38' 30"	06:51	20:01	04:00	18:45
07-09-2010	20:32(-1T)	91°24' 28"	02:28	+38°11' 12"	08:24	268°33' 43"	06:53	19:58	05:28	19:07
08-09-2010	20:28(-1T)	91°29' 18"	02:23	+38°08' 08"	08:19	268°28' 52"	06:54	19:56	06:56	19:29
09-09-2010	20:23(-1T)	91°34' 10"	02:19	+38°05' 02"	08:14	268°24' 00"	06:56	19:54	08:23	19:50
10-09-2010	20:19(-1T)	91°39' 04"	02:15	+38°01' 55"	08:10	268°19' 05"	06:57	19:52	09:50	20:12
11-09-2010	20:15(-1T)	91°44' 00"	02:10	+37°58' 47"	08:05	268°14' 09"	06:59	19:50	11:15	20:38
12-09-2010	20:11(-1T)	91°48' 58"	02:06	+37°55' 37"	08:00	268°09' 11"	07:00	19:47	12:37	21:10
13-09-2010	20:07(-1T)	91°53' 57"	02:01	+37°52' 27"	07:56	268°04' 11"	07:02	19:45	13:53	21:50
14-09-2010	20:03(-1T)	91°58' 58"	01:57	+37°49' 16"	07:51	267°59' 11"	07:03	19:43	14:59	22:39
15-09-2010	19:59(-1T)	92°04' 00"	01:53	+37°46' 04"	07:46	267°54' 09"	07:05	19:41	15:52	23:37
16-09-2010	19:54(-1T)	92°09' 02"	01:48	+37°42' 52"	07:42	267°49' 07"	07:07	19:38	16:34	---
17-09-2010	19:50(-1T)	92°14' 05"	01:44	+37°39' 39"	07:37	267°44' 04"	07:08	19:36	17:06	00:41
18-09-2010	19:46(-1T)	92°19' 08"	01:39	+37°36' 26"	07:32	267°39' 01"	07:10	19:34	17:32	01:48
19-09-2010	19:42(-1T)	92°23' 33"	01:35	+37°33' 14"	07:28	267°33' 58"	07:11	19:32	17:52	02:56
20-09-2010	19:38(-1T)	92°28' 36"	01:31	+37°30' 01"	07:23	267°28' 56"	07:13	19:30	18:10	04:04
21-09-2010	19:34(-1T)	92°33' 38"	01:26	+37°26' 48"	07:18	267°23' 53"	07:14	19:27	18:26	05:10
22-09-2010	19:29(-1T)	92°38' 41"	01:22	+37°23' 36"	07:14	267°18' 51"	07:16	19:25	18:41	06:17
23-09-2010	19:25(-1T)	92°43' 42"	01:17	+37°20' 25"	07:09	267°13' 50"	07:17	19:23	18:57	07:23
24-09-2010	19:21(-1T)	92°48' 43"	01:13	+37°17' 14"	07:04	267°08' 51"	07:19	19:21	19:15	08:30
25-09-2010	19:17(-1T)	92°53' 42"	01:08	+37°14' 03"	07:00	267°03' 52"	07:20	19:18	19:35	09:38
26-09-2010	19:13(-1T)	92°58' 40"	01:04	+37°10' 54"	06:55	266°58' 55"	07:22	19:16	19:59	10:47
27-09-2010	19:09(-1T)	93°03' 36"	01:00	+37°07' 46"	06:50	266°53' 59"	07:23	19:14	20:30	11:56

## Aufgang/Untergang

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 1°3'13"S  
 Län.: 25°26' 6"W

### Objekt

Planet:  
 Jupiter

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
28-09-2010	19:04(-1T)	93°08' 31"	00:55	+37°04' 39"	06:46	266°49' 06"	07:25	19:12	21:09	13:03
29-09-2010	19:00(-1T)	93°13' 23"	00:51	+37°01' 33"	06:41	266°44' 15"	07:26	19:09	22:00	14:05
30-09-2010	18:56(-1T)	93°18' 14"	00:46	+36°58' 29"	06:36	266°39' 26"	07:28	19:07	23:03	14:58
01-10-2010	18:52(-1T)	93°23' 01"	00:42	+36°55' 27"	06:32	266°34' 39"	07:30	19:05	---	15:41
02-10-2010	18:48(-1T)	93°27' 46"	00:38	+36°52' 26"	06:27	266°29' 56"	07:31	19:03	00:16	16:16
03-10-2010	18:44(-1T)	93°32' 29"	00:33	+36°49' 27"	06:22	266°25' 15"	07:33	19:01	01:35	16:44
04-10-2010	18:39(-1T)	93°37' 08"	00:29	+36°46' 30"	06:18	266°20' 38"	07:34	18:58	02:59	17:08
05-10-2010	18:35(-1T)	93°41' 43"	00:24	+36°43' 35"	06:13	266°16' 04"	07:36	18:56	04:24	17:29
06-10-2010	18:31(-1T)	93°46' 54"	00:20	+36°40' 43"	06:08	266°11' 34"	07:37	18:54	05:49	17:50
07-10-2010	18:27(-1T)	93°51' 22"	00:16	+36°37' 53"	06:04	266°07' 08"	07:39	18:52	07:16	18:12
08-10-2010	18:23(-1T)	93°55' 46"	00:11	+36°35' 06"	05:59	266°02' 46"	07:41	18:50	08:42	18:37
09-10-2010	18:19(-1T)	94°00' 05"	00:07	+36°32' 21"	05:55	265°58' 28"	07:42	18:48	10:08	19:07
10-10-2010	18:15(-1T)	94°04' 20"	00:02	+36°29' 39"	05:50	265°54' 15"	07:44	18:46	11:29	19:44
10-10-2010	18:10	94°08' 31"	23:58	+36°27' 01"	05:46(+1T)	265°50' 06"	07:44	18:46	11:29	19:44
11-10-2010	18:06	94°12' 37"	23:54	+36°24' 25"	05:41(+1T)	265°46' 02"	07:46	18:43	12:41	20:31
12-10-2010	18:02	94°16' 37"	23:49	+36°21' 52"	05:36(+1T)	265°42' 04"	07:47	18:41	13:42	21:26
13-10-2010	17:58	94°20' 33"	23:45	+36°19' 23"	05:32(+1T)	265°38' 10"	07:49	18:39	14:29	22:30
14-10-2010	17:54	94°24' 23"	23:41	+36°16' 57"	05:27(+1T)	265°34' 22"	07:50	18:37	15:06	23:37
15-10-2010	17:50	94°28' 08"	23:36	+36°14' 35"	05:23(+1T)	265°30' 40"	07:52	18:35	15:34	---
16-10-2010	17:46	94°31' 47"	23:32	+36°12' 16"	05:18(+1T)	265°27' 03"	07:54	18:33	15:57	00:46
17-10-2010	17:42	94°35' 20"	23:28	+36°10' 01"	05:14(+1T)	265°23' 32"	07:55	18:31	16:15	01:53
18-10-2010	17:37	94°38' 48"	23:24	+36°07' 50"	05:09(+1T)	265°20' 07"	07:57	18:29	16:32	03:00
19-10-2010	17:33	94°42' 09"	23:19	+36°05' 43"	05:05(+1T)	265°16' 48"	07:59	18:27	16:48	04:06
20-10-2010	17:29	94°45' 24"	23:15	+36°03' 39"	05:01(+1T)	265°13' 35"	08:00	18:25	17:04	05:12
21-10-2010	17:25	94°48' 33"	23:11	+36°01' 40"	04:56(+1T)	265°10' 28"	08:02	18:23	17:21	06:19
22-10-2010	17:21	94°51' 36"	23:06	+35°59' 44"	04:52(+1T)	265°07' 28"	08:04	18:21	17:40	07:27
23-10-2010	17:17	94°54' 31"	23:02	+35°57' 53"	04:47(+1T)	265°04' 35"	08:05	18:19	18:04	08:36
24-10-2010	17:13	94°57' 21"	22:58	+35°56' 06"	04:43(+1T)	265°01' 48"	08:07	18:17	18:33	09:46
25-10-2010	17:09	95°00' 03"	22:54	+35°54' 23"	04:39(+1T)	264°59' 08"	08:09	18:15	19:10	10:55
26-10-2010	17:05	95°02' 39"	22:49	+35°52' 45"	04:34(+1T)	264°56' 34"	08:10	18:13	19:58	11:58

## Aufgang/Untergang

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 1°3'13"S  
 Län.: 25°26' 6"W

### Objekt

Planet:  
 Jupiter

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
27-10-2010	17:00	95°05' 08"	22:45	+35°51' 11"	04:30(+1T)	264°54' 08"	08:12	18:11	20:57	12:54
28-10-2010	16:56	95°07' 30"	22:41	+35°49' 41"	04:26(+1T)	264°51' 49"	08:14	18:09	22:06	13:40
29-10-2010	16:52	95°09' 45"	22:37	+35°48' 16"	04:21(+1T)	264°49' 37"	08:15	18:08	23:22	14:16
30-10-2010	16:48	95°11' 52"	22:33	+35°46' 56"	04:17(+1T)	264°47' 32"	08:17	18:06	---	14:46
31-10-2010	15:44	95°13' 53"	21:29	+35°45' 40"	03:13(+1T)	264°45' 34"	07:19	17:04	00:42	14:10
01-11-2010	15:40	95°15' 46"	21:24	+35°44' 29"	03:08(+1T)	264°43' 44"	07:20	17:02	01:03	14:32
02-11-2010	15:36	95°17' 31"	21:20	+35°43' 22"	03:04(+1T)	264°42' 01"	07:22	17:01	02:25	14:52
03-11-2010	15:32	95°19' 09"	21:16	+35°42' 20"	03:00(+1T)	264°40' 25"	07:24	16:59	03:48	15:13
04-11-2010	15:28	95°20' 40"	21:12	+35°41' 24"	02:56(+1T)	264°38' 58"	07:26	16:57	05:12	15:36
05-11-2010	15:24	95°22' 02"	21:08	+35°40' 32"	02:52(+1T)	264°37' 38"	07:27	16:55	06:36	16:03
06-11-2010	15:20	95°23' 18"	21:04	+35°39' 44"	02:47(+1T)	264°35' 48"	07:29	16:54	08:00	16:36
07-11-2010	15:16	95°24' 25"	21:00	+35°39' 02"	02:43(+1T)	264°34' 47"	07:31	16:52	09:17	17:19
08-11-2010	15:12	95°25' 25"	20:56	+35°38' 25"	02:39(+1T)	264°33' 54"	07:32	16:51	10:25	18:12
09-11-2010	15:08	95°26' 16"	20:52	+35°37' 53"	02:35(+1T)	264°33' 08"	07:34	16:49	11:19	19:13
10-11-2010	15:04	95°27' 00"	20:48	+35°37' 25"	02:31(+1T)	264°32' 30"	07:36	16:48	12:02	20:21
11-11-2010	15:00	95°27' 36"	20:43	+35°37' 03"	02:27(+1T)	264°32' 00"	07:37	16:46	12:34	21:31
12-11-2010	14:56	95°28' 05"	20:39	+35°36' 45"	02:23(+1T)	264°31' 38"	07:39	16:45	12:59	22:40
13-11-2010	14:52	95°28' 25"	20:35	+35°36' 33"	02:19(+1T)	264°31' 24"	07:41	16:43	13:19	23:47
14-11-2010	14:48	95°28' 38"	20:31	+35°36' 25"	02:15(+1T)	264°31' 18"	07:42	16:42	13:37	---
15-11-2010	14:44	95°28' 42"	20:27	+35°36' 23"	02:11(+1T)	264°31' 19"	07:44	16:41	13:53	00:54
16-11-2010	14:40	95°28' 39"	20:24	+35°36' 25"	02:07(+1T)	264°31' 29"	07:46	16:39	14:09	01:59
17-11-2010	14:36	95°28' 28"	20:20	+35°36' 33"	02:03(+1T)	264°31' 46"	07:47	16:38	14:25	03:05
18-11-2010	14:32	95°28' 10"	20:16	+35°36' 45"	01:59(+1T)	264°32' 10"	07:49	16:37	14:44	04:13
19-11-2010	14:28	95°27' 43"	20:12	+35°37' 03"	01:55(+1T)	264°32' 43"	07:51	16:36	15:06	05:22
20-11-2010	14:24	95°27' 09"	20:08	+35°37' 25"	01:51(+1T)	264°33' 24"	07:52	16:35	15:33	06:32
21-11-2010	14:20	95°26' 27"	20:04	+35°37' 52"	01:48(+1T)	264°34' 12"	07:54	16:34	16:08	07:42
22-11-2010	14:16	95°25' 37"	20:00	+35°38' 24"	01:44(+1T)	264°35' 08"	07:55	16:33	16:53	08:48
23-11-2010	14:12	95°24' 40"	19:56	+35°39' 01"	01:40(+1T)	264°36' 11"	07:57	16:32	17:50	09:48
24-11-2010	14:08	95°23' 34"	19:52	+35°39' 43"	01:36(+1T)	264°37' 22"	07:58	16:31	18:57	10:38
25-11-2010	14:04	95°22' 22"	19:48	+35°40' 30"	01:32(+1T)	264°38' 41"	08:00	16:30	20:12	11:17

## Aufgang/Untergang

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 1°3'13"S  
 Län.: 25°26' 6"W

### Objekt

Planet:  
 Jupiter

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
26-11-2010	14:01	95°21' 01"	19:44	+35°41' 21"	01:29(+1T)	264°40' 08"	08:01	16:29	21:31	11:49
27-11-2010	13:57	95°19' 33"	19:41	+35°42' 18"	01:25(+1T)	264°41' 42"	08:03	16:28	22:51	12:15
28-11-2010	13:53	95°17' 57"	19:37	+35°43' 19"	01:21(+1T)	264°42' 44"	08:04	16:27	---	12:37
29-11-2010	13:49	95°16' 14"	19:33	+35°44' 25"	01:17(+1T)	264°44' 30"	08:06	16:26	00:11	12:57
30-11-2010	13:45	95°14' 24"	19:29	+35°45' 36"	01:14(+1T)	264°46' 23"	08:07	16:26	01:31	13:17
01-12-2010	13:41	95°12' 25"	19:25	+35°46' 51"	01:10(+1T)	264°48' 24"	08:09	16:25	02:52	13:38
02-12-2010	13:37	95°10' 20"	19:22	+35°48' 12"	01:06(+1T)	264°50' 32"	08:10	16:25	04:14	14:02
03-12-2010	13:33	95°08' 07"	19:18	+35°49' 37"	01:03(+1T)	264°52' 48"	08:11	16:24	05:35	14:32
04-12-2010	13:29	95°05' 46"	19:14	+35°51' 06"	00:59(+1T)	264°55' 10"	08:13	16:24	06:54	15:10
05-12-2010	13:26	95°03' 18"	19:10	+35°52' 41"	00:55(+1T)	264°57' 41"	08:14	16:23	08:06	15:57
06-12-2010	13:22	95°00' 43"	19:07	+35°54' 20"	00:52(+1T)	265°00' 18"	08:15	16:23	09:06	16:55
07-12-2010	13:18	94°58' 01"	19:03	+35°56' 03"	00:48(+1T)	265°03' 03"	08:16	16:23	09:54	18:01
08-12-2010	13:14	94°55' 12"	18:59	+35°57' 51"	00:45(+1T)	265°05' 55"	08:17	16:22	10:31	19:11
09-12-2010	13:10	94°52' 15"	18:56	+35°59' 44"	00:41(+1T)	265°08' 54"	08:18	16:22	11:00	20:22
10-12-2010	13:06	94°49' 11"	18:52	+36°01' 41"	00:38(+1T)	265°12' 00"	08:20	16:22	11:22	21:31
11-12-2010	13:02	94°46' 01"	18:48	+36°03' 43"	00:34(+1T)	265°15' 13"	08:21	16:22	11:41	22:39
12-12-2010	12:59	94°42' 43"	18:45	+36°05' 48"	00:31(+1T)	265°18' 33"	08:22	16:22	11:58	23:45
13-12-2010	12:55	94°39' 19"	18:41	+36°07' 59"	00:27(+1T)	265°21' 59"	08:22	16:22	12:14	---
14-12-2010	12:51	94°35' 48"	18:37	+36°10' 13"	00:24(+1T)	265°25' 33"	08:23	16:22	12:30	00:50
15-12-2010	12:47	94°32' 11"	18:34	+36°12' 32"	00:20(+1T)	265°29' 13"	08:24	16:22	12:47	01:56
16-12-2010	12:43	94°28' 26"	18:30	+36°14' 55"	00:17(+1T)	265°32' 59"	08:25	16:22	13:07	03:04
17-12-2010	12:40	94°24' 35"	18:26	+36°17' 22"	00:14(+1T)	265°36' 52"	08:26	16:22	13:32	04:13
18-12-2010	12:36	94°20' 38"	18:23	+36°19' 53"	00:10(+1T)	265°40' 52"	08:26	16:23	14:03	05:23
19-12-2010	12:32	94°16' 35"	18:19	+36°22' 28"	00:07(+1T)	265°44' 57"	08:27	16:23	14:44	06:32
20-12-2010	12:28	94°12' 25"	18:16	+36°25' 08"	00:04(+1T)	265°49' 10"	08:28	16:23	15:36	07:35
21-12-2010	12:24	94°08' 09"	18:12	+36°27' 51"	00:00(+1T)	265°53' 28"	08:28	16:24	16:41	08:30
22-12-2010	12:21	94°03' 46"	18:09	+36°30' 38"	23:57	265°57' 52"	08:29	16:24	17:55	09:15
23-12-2010	12:17	93°59' 18"	18:05	+36°33' 29"	23:54	266°02' 23"	08:29	16:25	19:16	09:50
24-12-2010	12:13	93°54' 43"	18:02	+36°36' 24"	23:50	266°07' 00"	08:30	16:26	20:38	10:19
25-12-2010	12:09	93°50' 03"	17:58	+36°39' 23"	23:47	266°11' 42"	08:30	16:26	22:00	10:42

## Aufgang/Untergang

### Datum/Standort

Datum: 01-01-2010  
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### Objekt

Planet:  
 Jupiter

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
26-12-2010	12:06	93° 45 ' 16"	17:55	+36° 42 ' 25"	23:44	266° 16 ' 31"	08:30	16:27	23:20	11:03
27-12-2010	12:02	93° 40 ' 24"	17:51	+36° 45 ' 31"	23:41	266° 21 ' 25"	08:31	16:28	---	11:23
28-12-2010	11:58	93° 35 ' 26"	17:48	+36° 48 ' 41"	23:37	266° 26 ' 25"	08:31	16:29	00:41	11:44
29-12-2010	11:54	93° 30 ' 22"	17:44	+36° 51 ' 55"	23:34	266° 31 ' 31"	08:31	16:29	02:01	12:06
30-12-2010	11:51	93° 25 ' 13"	17:41	+36° 55 ' 12"	23:31	266° 36 ' 43"	08:31	16:30	03:21	12:34
31-12-2010	11:47	93° 19 ' 58"	17:37	+36° 58 ' 33"	23:28	266° 42 ' 00"	08:31	16:31	04:39	13:07