

Aufgang/Untergang

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 0°45'21"S
 Län.: 4°13'28"W

Objekt

Planet:
 Uranus

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

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

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

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

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Datum: 01-01-2010
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Objekt

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

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Objekt

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

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Objekt

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

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Objekt

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

Aufgang/Untergang

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 0°45'21"S
 Län.: 4°13'28"W

Objekt

Planet:
 Uranus

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

Aufgang/Untergang

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 0°45'21"S
 Län.: 4°13'28"W

Objekt

Planet:
 Uranus

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

Aufgang/Untergang

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 0°45'21"S
 Län.: 4°13'28"W

Objekt

Planet:
 Uranus

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

Aufgang/Untergang

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 0°45'21"S
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Objekt

Planet:
 Uranus

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
26-12-2010	12:04	92° 20 ' 50"	17:57	+37° 35 ' 48"	23:51	267° 39 ' 44"	08:30	16:27	23:20	11:03
27-12-2010	12:00	92° 20 ' 06"	17:53	+37° 36 ' 16"	23:47	267° 40 ' 29"	08:31	16:28	---	11:23
28-12-2010	11:56	92° 19 ' 21"	17:50	+37° 36 ' 45"	23:43	267° 41 ' 16"	08:31	16:29	00:41	11:44
29-12-2010	11:52	92° 18 ' 34"	17:46	+37° 37 ' 15"	23:39	267° 42 ' 05"	08:31	16:29	02:01	12:06
30-12-2010	11:49	92° 17 ' 45"	17:42	+37° 37 ' 46"	23:35	267° 42 ' 55"	08:31	16:30	03:21	12:34
31-12-2010	11:45	92° 16 ' 54"	17:38	+37° 38 ' 19"	23:32	267° 43 ' 25"	08:31	16:31	04:39	13:07