

Aufgang/Untergang

Datum/Standort

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

Objekt

Planet:
 Saturn

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
01-01-2010	00:01	88° 49 ' 18"	06:05	+39° 50 ' 04"	12:09	271° 10 ' 20"	08:31	16:32	17:37	09:01
02-01-2010	23:57(-1T)	88° 49 ' 45"	06:01	+39° 49 ' 49"	12:06	271° 09 ' 57"	08:31	16:34	19:06	09:34
03-01-2010	23:54(-1T)	88° 50 ' 07"	05:58	+39° 49 ' 36"	12:02	271° 09 ' 38"	08:31	16:35	20:34	10:00
04-01-2010	23:50(-1T)	88° 50 ' 26"	05:54	+39° 49 ' 26"	11:58	271° 09 ' 22"	08:30	16:36	21:59	10:21
05-01-2010	23:46(-1T)	88° 50 ' 40"	05:50	+39° 49 ' 19"	11:54	271° 09 ' 11"	08:30	16:37	23:21	10:39
06-01-2010	23:42(-1T)	88° 50 ' 51"	05:46	+39° 49 ' 14"	11:50	271° 09 ' 04"	08:30	16:38	---	10:56
07-01-2010	23:38(-1T)	88° 50 ' 57"	05:42	+39° 49 ' 12"	11:46	271° 09 ' 01"	08:30	16:39	00:41	11:15
08-01-2010	23:34(-1T)	88° 50 ' 59"	05:38	+39° 49 ' 12"	11:42	271° 09 ' 02"	08:29	16:41	01:59	11:35
09-01-2010	23:30(-1T)	88° 50 ' 57"	05:34	+39° 49 ' 15"	11:38	271° 09 ' 07"	08:29	16:42	03:16	12:00
10-01-2010	23:26(-1T)	88° 50 ' 52"	05:30	+39° 49 ' 20"	11:34	271° 09 ' 16"	08:28	16:43	04:29	12:30
11-01-2010	23:23(-1T)	88° 50 ' 42"	05:27	+39° 49 ' 28"	11:31	271° 09 ' 29"	08:28	16:45	05:37	13:10
12-01-2010	23:19(-1T)	88° 50 ' 28"	05:23	+39° 49 ' 39"	11:27	271° 09 ' 46"	08:27	16:46	06:36	13:59
13-01-2010	23:15(-1T)	88° 50 ' 10"	05:19	+39° 49 ' 52"	11:23	271° 10 ' 07"	08:26	16:48	07:23	14:57
14-01-2010	23:11(-1T)	88° 49 ' 48"	05:15	+39° 50 ' 08"	11:19	271° 10 ' 33"	08:26	16:49	08:01	16:02
15-01-2010	23:07(-1T)	88° 49 ' 22"	05:11	+39° 50 ' 26"	11:15	271° 11 ' 02"	08:25	16:51	08:29	17:10
16-01-2010	23:03(-1T)	88° 48 ' 52"	05:07	+39° 50 ' 47"	11:11	271° 11 ' 35"	08:24	16:52	08:52	18:18
17-01-2010	22:59(-1T)	88° 48 ' 17"	05:03	+39° 51 ' 11"	11:07	271° 12 ' 13"	08:23	16:54	09:10	19:27
18-01-2010	22:55(-1T)	88° 47 ' 39"	04:59	+39° 51 ' 37"	11:03	271° 12 ' 54"	08:22	16:55	09:26	20:34
19-01-2010	22:51(-1T)	88° 46 ' 57"	04:55	+39° 52 ' 05"	10:59	271° 13 ' 39"	08:21	16:57	09:40	21:41
20-01-2010	22:47(-1T)	88° 46 ' 11"	04:51	+39° 52 ' 36"	10:55	271° 14 ' 28"	08:20	16:58	09:54	22:49
21-01-2010	22:43(-1T)	88° 45 ' 21"	04:47	+39° 53 ' 10"	10:51	271° 15 ' 21"	08:19	17:00	10:09	23:58
22-01-2010	22:39(-1T)	88° 44 ' 28"	04:43	+39° 53 ' 46"	10:48	271° 16 ' 18"	08:18	17:02	10:26	---
23-01-2010	22:35(-1T)	88° 43 ' 30"	04:39	+39° 54 ' 24"	10:44	271° 17 ' 19"	08:17	17:03	10:46	01:10
24-01-2010	22:31(-1T)	88° 42 ' 28"	04:35	+39° 55 ' 05"	10:40	271° 18 ' 24"	08:16	17:05	11:12	02:25
25-01-2010	22:27(-1T)	88° 41 ' 23"	04:31	+39° 55 ' 48"	10:36	271° 19 ' 32"	08:15	17:07	11:48	03:40
26-01-2010	22:23(-1T)	88° 40 ' 14"	04:27	+39° 56 ' 34"	10:32	271° 20 ' 44"	08:13	17:08	12:36	04:53
27-01-2010	22:19(-1T)	88° 39 ' 01"	04:23	+39° 57 ' 22"	10:28	271° 22 ' 00"	08:12	17:10	13:41	05:57
28-01-2010	22:15(-1T)	88° 37 ' 45"	04:19	+39° 58 ' 12"	10:24	271° 23 ' 19"	08:11	17:12	15:00	06:49
29-01-2010	22:10(-1T)	88° 36 ' 25"	04:15	+39° 59 ' 05"	10:20	271° 24 ' 42"	08:10	17:13	16:28	07:28
30-01-2010	22:06(-1T)	88° 35 ' 01"	04:11	+39° 59 ' 59"	10:16	271° 26 ' 09"	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	22:02(-1T)	88°33'33"	04:07	+40°00'57"	10:12	271°27'39"	08:07	17:17	19:29	08:22
01-02-2010	21:58(-1T)	88°32'02"	04:03	+40°01'56"	10:08	271°29'13"	08:05	17:19	20:55	08:42
02-02-2010	21:54(-1T)	88°30'28"	03:59	+40°02'58"	10:04	271°30'50"	08:04	17:20	22:19	09:01
03-02-2010	21:50(-1T)	88°28'50"	03:55	+40°04'01"	10:00	271°32'31"	08:02	17:22	23:41	09:19
04-02-2010	21:46(-1T)	88°27'09"	03:51	+40°05'07"	09:56	271°34'15"	08:01	17:24	---	09:40
05-02-2010	21:42(-1T)	88°25'24"	03:47	+40°06'15"	09:52	271°36'02"	07:59	17:26	01:01	10:03
06-02-2010	21:37(-1T)	88°22'57"	03:43	+40°07'26"	09:48	271°37'53"	07:57	17:27	02:18	10:32
07-02-2010	21:33(-1T)	88°21'04"	03:39	+40°08'38"	09:44	271°39'47"	07:56	17:29	03:29	11:09
08-02-2010	21:29(-1T)	88°19'08"	03:35	+40°09'52"	09:40	271°41'44"	07:54	17:31	04:31	11:55
09-02-2010	21:25(-1T)	88°17'08"	03:31	+40°11'09"	09:36	271°43'45"	07:52	17:33	05:22	12:50
10-02-2010	21:21(-1T)	88°15'06"	03:26	+40°12'27"	09:32	271°45'48"	07:51	17:35	06:02	13:53
11-02-2010	21:16(-1T)	88°13'01"	03:22	+40°13'47"	09:28	271°47'54"	07:49	17:36	06:33	15:00
12-02-2010	21:12(-1T)	88°10'52"	03:18	+40°15'10"	09:24	271°50'04"	07:47	17:38	06:58	16:08
13-02-2010	21:08(-1T)	88°08'41"	03:14	+40°16'34"	09:20	271°52'16"	07:45	17:40	07:17	17:17
14-02-2010	21:04(-1T)	88°06'27"	03:10	+40°17'59"	09:16	271°54'31"	07:44	17:42	07:34	18:24
15-02-2010	20:59(-1T)	88°04'10"	03:06	+40°19'27"	09:12	271°56'49"	07:42	17:43	07:49	19:32
16-02-2010	20:55(-1T)	88°01'50"	03:02	+40°20'56"	09:08	271°59'10"	07:40	17:45	08:03	20:39
17-02-2010	20:51(-1T)	87°59'28"	02:58	+40°22'27"	09:04	272°01'33"	07:38	17:47	08:18	21:48
18-02-2010	20:47(-1T)	87°57'03"	02:54	+40°24'00"	09:00	272°03'59"	07:36	17:49	08:34	22:58
19-02-2010	20:42(-1T)	87°54'36"	02:49	+40°25'34"	08:56	272°06'27"	07:34	17:50	08:52	---
20-02-2010	20:38(-1T)	87°52'06"	02:45	+40°27'09"	08:52	272°08'58"	07:32	17:52	09:16	00:11
21-02-2010	20:34(-1T)	87°49'34"	02:41	+40°28'47"	08:48	272°11'30"	07:30	17:54	09:46	01:24
22-02-2010	20:30(-1T)	87°47'00"	02:37	+40°30'25"	08:44	272°14'05"	07:28	17:56	10:28	02:36
23-02-2010	20:25(-1T)	87°44'23"	02:33	+40°32'05"	08:40	272°16'42"	07:26	17:57	11:23	03:42
24-02-2010	20:21(-1T)	87°41'45"	02:29	+40°33'46"	08:36	272°19'22"	07:24	17:59	12:32	04:37
25-02-2010	20:17(-1T)	87°39'04"	02:24	+40°35'28"	08:32	272°22'03"	07:22	18:01	13:54	05:21
26-02-2010	20:12(-1T)	87°36'22"	02:20	+40°37'12"	08:28	272°24'46"	07:20	18:02	15:22	05:55
27-02-2010	20:08(-1T)	87°33'38"	02:16	+40°38'57"	08:24	272°27'30"	07:18	18:04	16:51	06:21
28-02-2010	20:04(-1T)	87°30'52"	02:12	+40°40'42"	08:20	272°30'17"	07:16	18:06	18:20	06:43
01-03-2010	20:00(-1T)	87°28'04"	02:08	+40°42'29"	08:16	272°33'05"	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	19:55(-1T)	87°25'15"	02:04	+40°44'17"	08:12	272°35'54"	07:12	18:09	21:12	07:22
03-03-2010	19:51(-1T)	87°22'25"	01:59	+40°46'06"	08:08	272°38'46"	07:10	18:11	22:36	07:42
04-03-2010	19:47(-1T)	87°19'33"	01:55	+40°47'55"	08:04	272°41'38"	07:08	18:13	23:57	08:05
05-03-2010	19:42(-1T)	87°16'39"	01:51	+40°49'46"	08:00	272°44'32"	07:06	18:14	---	08:33
06-03-2010	19:38(-1T)	87°13'45"	01:47	+40°51'37"	07:56	272°47'27"	07:04	18:16	01:13	09:08
07-03-2010	19:33(-1T)	87°10'49"	01:43	+40°53'29"	07:52	272°50'23"	07:01	18:18	02:20	09:51
08-03-2010	19:29(-1T)	87°07'52"	01:38	+40°55'21"	07:48	272°53'20"	06:59	18:19	03:16	10:44
09-03-2010	19:25(-1T)	87°04'55"	01:34	+40°57'14"	07:44	272°56'18"	06:57	18:21	04:01	11:45
10-03-2010	19:20(-1T)	87°01'56"	01:30	+40°59'08"	07:40	272°59'16"	06:55	18:23	04:35	12:50
11-03-2010	19:16(-1T)	86°58'57"	01:26	+41°01'02"	07:35	273°02'16"	06:53	18:24	05:02	13:58
12-03-2010	19:12(-1T)	86°55'57"	01:22	+41°02'57"	07:31	273°05'16"	06:51	18:26	05:23	15:06
13-03-2010	19:07(-1T)	86°52'56"	01:17	+41°04'52"	07:27	273°08'16"	06:48	18:28	05:41	16:14
14-03-2010	19:03(-1T)	86°49'55"	01:13	+41°06'47"	07:23	273°11'17"	06:46	18:29	05:56	17:21
15-03-2010	18:59(-1T)	86°46'54"	01:09	+41°08'42"	07:19	273°14'19"	06:44	18:31	06:11	18:29
16-03-2010	18:54(-1T)	86°43'53"	01:05	+41°10'37"	07:15	273°17'20"	06:42	18:33	06:26	19:38
17-03-2010	18:50(-1T)	86°40'51"	01:01	+41°12'33"	07:11	273°20'22"	06:40	18:34	06:42	20:48
18-03-2010	18:46(-1T)	86°37'49"	00:56	+41°14'28"	07:07	273°23'23"	06:37	18:36	07:00	22:00
19-03-2010	18:41(-1T)	86°34'48"	00:52	+41°16'24"	07:03	273°26'25"	06:35	18:37	07:22	23:14
20-03-2010	18:37(-1T)	86°31'46"	00:48	+41°18'19"	06:59	273°29'26"	06:33	18:39	07:50	---
21-03-2010	18:32(-1T)	86°28'45"	00:44	+41°20'14"	06:55	273°32'27"	06:31	18:41	08:28	00:26
22-03-2010	18:28(-1T)	86°25'44"	00:39	+41°22'09"	06:51	273°35'28"	06:29	18:42	09:17	01:32
23-03-2010	18:24(-1T)	86°22'44"	00:35	+41°24'04"	06:47	273°38'28"	06:26	18:44	10:20	02:30
24-03-2010	18:19(-1T)	86°19'44"	00:31	+41°25'58"	06:43	273°41'27"	06:24	18:46	11:34	03:16
25-03-2010	18:15(-1T)	86°16'45"	00:27	+41°27'52"	06:39	273°44'26"	06:22	18:47	12:56	03:53
26-03-2010	18:11(-1T)	86°13'46"	00:23	+41°29'45"	06:35	273°47'24"	06:20	18:49	14:22	04:21
27-03-2010	18:06(-1T)	86°10'49"	00:18	+41°31'38"	06:30	273°50'21"	06:18	18:50	15:48	04:44
28-03-2010	18:02(-1T)	86°07'52"	00:14	+41°33'30"	07:26	273°53'17"	07:15	19:52	18:13	06:05
29-03-2010	18:57(-1T)	86°04'56"	01:10	+41°35'21"	07:22	273°56'12"	07:13	19:54	19:39	06:24
30-03-2010	18:53(-1T)	86°02'02"	01:06	+41°37'12"	07:18	273°59'06"	07:11	19:55	21:04	06:44
31-03-2010	18:49(-1T)	85°59'09"	01:02	+41°39'02"	07:14	274°01'59"	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	18:44(-1T)	85°56' 17"	00:57	+41°40' 51"	07:10	274°04' 50"	07:07	19:58	23:48	07:31
02-04-2010	18:40(-1T)	85°53' 26"	00:53	+41°42' 39"	07:06	274°07' 40"	07:04	20:00	---	08:04
03-04-2010	18:36(-1T)	85°50' 37"	00:49	+41°44' 26"	07:02	274°10' 29"	07:02	20:02	01:01	08:44
04-04-2010	18:31(-1T)	85°47' 49"	00:45	+41°46' 12"	06:58	274°13' 16"	07:00	20:03	02:04	09:35
05-04-2010	18:27(-1T)	85°45' 03"	00:40	+41°47' 58"	06:54	274°16' 01"	06:58	20:05	02:55	10:34
06-04-2010	18:23(-1T)	85°42' 19"	00:36	+41°49' 42"	06:50	274°18' 45"	06:56	20:06	03:33	11:39
07-04-2010	18:18(-1T)	85°39' 36"	00:32	+41°51' 25"	06:46	274°21' 26"	06:54	20:08	04:03	12:46
08-04-2010	18:14(-1T)	85°36' 56"	00:28	+41°53' 06"	06:42	274°24' 06"	06:51	20:10	04:26	13:54
09-04-2010	18:10(-1T)	85°34' 17"	00:24	+41°54' 47"	06:38	274°26' 44"	06:49	20:11	04:46	15:02
10-04-2010	18:05(-1T)	85°31' 40"	00:19	+41°56' 26"	06:34	274°29' 20"	06:47	20:13	05:02	16:09
11-04-2010	18:01(-1T)	85°29' 06"	00:15	+41°58' 04"	06:30	274°31' 53"	06:45	20:14	05:17	17:17
12-04-2010	17:57(-1T)	85°26' 33"	00:11	+41°59' 40"	06:25	274°34' 24"	06:43	20:16	05:32	18:25
13-04-2010	17:52(-1T)	85°24' 03"	00:07	+42°01' 15"	06:21	274°36' 53"	06:41	20:18	05:48	19:35
14-04-2010	17:48(-1T)	85°21' 36"	00:03	+42°02' 48"	06:17	274°39' 20"	06:39	20:19	06:06	20:48
14-04-2010	17:44	85°19' 11"	23:59	+42°04' 20"	06:13(+1T)	274°41' 44"	06:39	20:19	06:06	20:48
15-04-2010	17:39	85°16' 48"	23:54	+42°05' 50"	06:09(+1T)	274°44' 06"	06:37	20:21	06:27	22:01
16-04-2010	17:35	85°14' 28"	23:50	+42°07' 19"	06:05(+1T)	274°46' 24"	06:35	20:22	06:54	23:15
17-04-2010	17:31	85°12' 11"	23:46	+42°08' 45"	06:01(+1T)	274°48' 41"	06:32	20:24	07:29	---
18-04-2010	17:26	85°09' 56"	23:42	+42°10' 10"	05:57(+1T)	274°50' 54"	06:30	20:26	08:15	00:24
19-04-2010	17:22	85°07' 44"	23:38	+42°11' 33"	05:53(+1T)	274°53' 04"	06:28	20:27	09:14	01:25
20-04-2010	17:18	85°05' 35"	23:34	+42°12' 55"	05:49(+1T)	274°55' 12"	06:26	20:29	10:25	02:14
21-04-2010	17:14	85°03' 29"	23:29	+42°14' 14"	05:45(+1T)	274°57' 17"	06:24	20:30	11:43	02:53
22-04-2010	17:09	85°01' 27"	23:25	+42°15' 32"	05:41(+1T)	274°59' 18"	06:22	20:32	13:05	03:23
23-04-2010	17:05	84°59' 27"	23:21	+42°16' 47"	05:37(+1T)	275°01' 17"	06:20	20:33	14:28	03:47
24-04-2010	17:01	84°57' 30"	23:17	+42°18' 01"	05:33(+1T)	275°03' 13"	06:18	20:35	15:51	04:08
25-04-2010	16:57	84°55' 36"	23:13	+42°19' 13"	05:29(+1T)	275°05' 05"	06:17	20:37	17:13	04:27
26-04-2010	16:52	84°53' 46"	23:09	+42°20' 22"	05:25(+1T)	275°06' 54"	06:15	20:38	18:36	04:46
27-04-2010	16:48	84°51' 58"	23:05	+42°21' 30"	05:21(+1T)	275°08' 40"	06:13	20:40	19:59	05:07
28-04-2010	16:44	84°50' 14"	23:00	+42°22' 35"	05:17(+1T)	275°10' 23"	06:11	20:41	21:21	05:30
29-04-2010	16:40	84°48' 34"	22:56	+42°23' 39"	05:13(+1T)	275°12' 02"	06:09	20:43	22:38	06:00

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30-04-2010	16:36	84°46'56"	22:52	+42°24'40"	05:09(+1T)	275°13'38"	06:07	20:44	23:47	06:37
01-05-2010	16:31	84°45'22"	22:48	+42°25'39"	05:05(+1T)	275°15'10"	06:05	20:46	---	07:24
02-05-2010	16:27	84°43'52"	22:44	+42°26'36"	05:01(+1T)	275°16'40"	06:04	20:48	00:44	08:20
03-05-2010	16:23	84°42'25"	22:40	+42°27'31"	04:57(+1T)	275°18'05"	06:02	20:49	01:28	09:24
04-05-2010	16:19	84°41'39"	22:36	+42°28'23"	04:53(+1T)	275°19'27"	06:00	20:51	02:02	10:32
05-05-2010	16:15	84°40'17"	22:32	+42°29'13"	04:48(+1T)	275°20'46"	05:58	20:52	02:28	11:40
06-05-2010	16:11	84°39'00"	22:28	+42°30'01"	04:44(+1T)	275°22'01"	05:57	20:54	02:49	12:48
07-05-2010	16:07	84°37'45"	22:23	+42°30'47"	04:40(+1T)	275°23'12"	05:55	20:55	03:07	13:56
08-05-2010	16:02	84°36'35"	22:19	+42°31'30"	04:36(+1T)	275°24'19"	05:53	20:57	03:22	15:02
09-05-2010	15:58	84°35'28"	22:15	+42°32'11"	04:32(+1T)	275°25'23"	05:52	20:58	03:37	16:10
10-05-2010	15:54	84°34'25"	22:11	+42°32'49"	04:28(+1T)	275°26'23"	05:50	21:00	03:53	17:19
11-05-2010	15:50	84°33'25"	22:07	+42°33'25"	04:24(+1T)	275°27'20"	05:49	21:01	04:10	18:30
12-05-2010	15:46	84°32'30"	22:03	+42°33'59"	04:20(+1T)	275°28'12"	05:47	21:03	04:30	19:44
13-05-2010	15:42	84°31'38"	21:59	+42°34'30"	04:16(+1T)	275°29'01"	05:46	21:04	04:55	20:59
14-05-2010	15:38	84°30'50"	21:55	+42°34'59"	04:12(+1T)	275°29'46"	05:44	21:06	05:27	22:11
15-05-2010	15:34	84°30'06"	21:51	+42°35'26"	04:08(+1T)	275°30'27"	05:43	21:07	06:10	23:17
16-05-2010	15:30	84°29'25"	21:47	+42°35'50"	04:04(+1T)	275°31'04"	05:41	21:09	07:06	---
17-05-2010	15:26	84°28'49"	21:43	+42°36'11"	04:00(+1T)	275°31'38"	05:40	21:10	08:15	00:11
18-05-2010	15:22	84°28'16"	21:39	+42°36'30"	03:56(+1T)	275°32'07"	05:39	21:11	09:33	00:53
19-05-2010	15:17	84°27'48"	21:35	+42°36'47"	03:52(+1T)	275°32'33"	05:37	21:13	10:54	01:26
20-05-2010	15:13	84°27'23"	21:31	+42°37'01"	03:49(+1T)	275°32'54"	05:36	21:14	12:17	01:52
21-05-2010	15:09	84°27'02"	21:27	+42°37'12"	03:45(+1T)	275°33'12"	05:35	21:15	13:38	02:13
22-05-2010	15:05	84°26'45"	21:23	+42°37'22"	03:41(+1T)	275°33'26"	05:34	21:17	14:59	02:32
23-05-2010	15:01	84°26'32"	21:19	+42°37'28"	03:37(+1T)	275°33'36"	05:32	21:18	16:19	02:51
24-05-2010	14:57	84°26'23"	21:15	+42°37'32"	03:33(+1T)	275°33'42"	05:31	21:19	17:40	03:10
25-05-2010	14:53	84°26'17"	21:11	+42°37'34"	03:29(+1T)	275°33'44"	05:30	21:20	19:00	03:32
26-05-2010	14:50	84°26'16"	21:07	+42°37'33"	03:25(+1T)	275°33'42"	05:29	21:22	20:18	03:59
27-05-2010	14:46	84°26'18"	21:03	+42°37'30"	03:21(+1T)	275°33'37"	05:28	21:23	21:30	04:32
28-05-2010	14:42	84°26'25"	20:59	+42°37'25"	03:17(+1T)	275°33'27"	05:27	21:24	22:32	05:14
29-05-2010	14:38	84°26'35"	20:55	+42°37'16"	03:13(+1T)	275°33'14"	05:26	21:25	23:21	06:07

Aufgang/Untergang

Datum/Standort

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

Objekt

Planet:
 Saturn

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
30-05-2010	14:34	84°26'49"	20:51	+42°37'06"	03:09(+1T)	275°32'56"	05:26	21:26	---	07:08
31-05-2010	14:30	84°27'07"	20:47	+42°36'53"	03:05(+1T)	275°32'35"	05:25	21:27	00:00	08:16
01-06-2010	14:26	84°27'29"	20:43	+42°36'37"	03:01(+1T)	275°32'10"	05:24	21:28	00:29	09:25
02-06-2010	14:22	84°27'55"	20:40	+42°36'19"	02:57(+1T)	275°31'41"	05:23	21:29	00:52	10:34
03-06-2010	14:18	84°28'25"	20:36	+42°35'59"	02:53(+1T)	275°31'09"	05:23	21:30	01:11	11:41
04-06-2010	14:14	84°28'58"	20:32	+42°35'36"	02:49(+1T)	275°30'32"	05:22	21:31	01:27	12:48
05-06-2010	14:10	84°29'35"	20:28	+42°35'11"	02:45(+1T)	275°29'51"	05:21	21:32	01:42	13:54
06-06-2010	14:06	84°30'17"	20:24	+42°34'43"	02:41(+1T)	275°29'07"	05:21	21:33	01:57	15:02
07-06-2010	14:03	84°31'02"	20:20	+42°34'13"	02:37(+1T)	275°28'19"	05:20	21:34	02:13	16:11
08-06-2010	13:59	84°31'50"	20:16	+42°33'40"	02:33(+1T)	275°27'27"	05:20	21:35	02:32	17:24
09-06-2010	13:55	84°32'43"	20:12	+42°33'05"	02:29(+1T)	275°26'31"	05:19	21:36	02:54	18:38
10-06-2010	13:51	84°33'40"	20:08	+42°32'27"	02:26(+1T)	275°25'32"	05:19	21:36	03:23	19:52
11-06-2010	13:47	84°34'40"	20:04	+42°31'48"	02:22(+1T)	275°24'29"	05:19	21:37	04:02	21:01
12-06-2010	13:43	84°35'44"	20:01	+42°31'05"	02:18(+1T)	275°23'21"	05:19	21:38	04:53	22:02
13-06-2010	13:40	84°36'52"	19:57	+42°30'21"	02:14(+1T)	275°22'11"	05:18	21:38	05:58	22:50
14-06-2010	13:36	84°38'03"	19:53	+42°29'34"	02:10(+1T)	275°20'56"	05:18	21:39	07:15	23:27
15-06-2010	13:32	84°39'18"	19:49	+42°28'44"	02:06(+1T)	275°19'38"	05:18	21:39	08:38	23:55
16-06-2010	13:28	84°40'37"	19:45	+42°27'53"	02:02(+1T)	275°18'16"	05:18	21:40	10:03	---
17-06-2010	13:25	84°42'00"	19:41	+42°26'59"	01:58(+1T)	275°16'51"	05:18	21:40	11:26	00:19
18-06-2010	13:21	84°43'26"	19:38	+42°26'03"	01:54(+1T)	275°15'21"	05:18	21:40	12:48	00:39
19-06-2010	13:17	84°44'56"	19:34	+42°25'04"	01:50(+1T)	275°13'49"	05:18	21:41	14:08	00:57
20-06-2010	13:13	84°46'29"	19:30	+42°24'03"	01:46(+1T)	275°12'12"	05:18	21:41	15:28	01:16
21-06-2010	13:10	84°48'06"	19:26	+42°23'00"	01:43(+1T)	275°10'33"	05:18	21:41	16:47	01:37
22-06-2010	13:06	84°49'47"	19:22	+42°21'55"	01:39(+1T)	275°08'49"	05:19	21:41	18:04	02:01
23-06-2010	13:02	84°51'31"	19:19	+42°20'48"	01:35(+1T)	275°07'03"	05:19	21:42	19:17	02:32
24-06-2010	12:59	84°53'58"	19:15	+42°19'38"	01:31(+1T)	275°05'13"	05:19	21:42	20:22	03:10
25-06-2010	12:55	84°55'50"	19:11	+42°18'26"	01:27(+1T)	275°03'19"	05:20	21:42	21:16	03:58
26-06-2010	12:51	84°57'46"	19:07	+42°17'12"	01:23(+1T)	275°01'22"	05:20	21:42	21:58	04:56
27-06-2010	12:48	84°59'45"	19:03	+42°15'56"	01:19(+1T)	274°59'22"	05:20	21:42	22:30	06:01
28-06-2010	12:44	85°01'47"	19:00	+42°14'38"	01:15(+1T)	274°57'18"	05:21	21:41	22:55	07:10

Aufgang/Untergang

Datum/Standort

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

Planet:
 Saturn

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
29-06-2010	12:40	85°03'53"	18:56	+42°13'18"	01:12(+1T)	274°55'12"	05:21	21:41	23:16	08:19
30-06-2010	12:37	85°06'01"	18:52	+42°11'55"	01:08(+1T)	274°53'02"	05:22	21:41	23:33	09:27
01-07-2010	12:33	85°08'14"	18:48	+42°10'31"	01:04(+1T)	274°50'48"	05:23	21:41	23:48	10:34
02-07-2010	12:29	85°10'29"	18:45	+42°09'05"	01:00(+1T)	274°48'32"	05:23	21:41	---	11:41
03-07-2010	12:26	85°12'47"	18:41	+42°07'36"	00:56(+1T)	274°46'12"	05:24	21:40	00:03	12:47
04-07-2010	12:22	85°15'09"	18:37	+42°06'06"	00:52(+1T)	274°43'49"	05:25	21:40	00:19	13:55
05-07-2010	12:18	85°17'34"	18:33	+42°04'33"	00:48(+1T)	274°41'23"	05:26	21:39	00:36	15:04
06-07-2010	12:15	85°20'02"	18:30	+42°02'59"	00:45(+1T)	274°38'54"	05:26	21:39	00:56	16:16
07-07-2010	12:11	85°22'33"	18:26	+42°01'22"	00:41(+1T)	274°36'22"	05:27	21:38	01:21	17:29
08-07-2010	12:08	85°25'07"	18:22	+41°59'44"	00:37(+1T)	274°33'46"	05:28	21:38	01:54	18:41
09-07-2010	12:04	85°27'44"	18:19	+41°58'04"	00:33(+1T)	274°31'08"	05:29	21:37	02:38	19:46
10-07-2010	12:01	85°30'24"	18:15	+41°56'21"	00:29(+1T)	274°28'27"	05:30	21:36	03:37	20:40
11-07-2010	11:57	85°33'07"	18:11	+41°54'37"	00:25(+1T)	274°25'43"	05:31	21:36	04:49	21:23
12-07-2010	11:53	85°35'53"	18:07	+41°52'52"	00:22(+1T)	274°22'56"	05:32	21:35	06:12	21:56
13-07-2010	11:50	85°38'42"	18:04	+41°51'04"	00:18(+1T)	274°20'06"	05:33	21:34	07:39	22:22
14-07-2010	11:46	85°41'34"	18:00	+41°49'14"	00:14(+1T)	274°17'13"	05:34	21:33	09:06	22:43
15-07-2010	11:43	85°44'29"	17:56	+41°47'23"	00:10(+1T)	274°14'18"	05:35	21:32	10:31	23:03
16-07-2010	11:39	85°47'26"	17:53	+41°45'30"	00:06(+1T)	274°11'20"	05:36	21:31	11:54	23:22
17-07-2010	11:36	85°50'26"	17:49	+41°43'35"	00:02(+1T)	274°08'19"	05:38	21:30	13:15	23:43
18-07-2010	11:32	85°53'28"	17:45	+41°41'39"	23:59	274°05'15"	05:39	21:29	14:36	---
19-07-2010	11:29	85°56'34"	17:42	+41°39'41"	23:55	274°02'09"	05:40	21:28	15:54	00:06
20-07-2010	11:25	85°59'41"	17:38	+41°37'41"	23:51	273°59'00"	05:41	21:27	17:08	00:34
21-07-2010	11:22	86°02'52"	17:34	+41°35'40"	23:47	273°55'49"	05:42	21:26	18:15	01:10
22-07-2010	11:18	86°06'05"	17:31	+41°33'37"	23:43	273°52'35"	05:44	21:25	19:12	01:54
23-07-2010	11:15	86°09'20"	17:27	+41°31'32"	23:40	273°49'19"	05:45	21:23	19:57	02:48
24-07-2010	11:11	86°12'38"	17:24	+41°29'26"	23:36	273°46'00"	05:46	21:22	20:32	03:50
25-07-2010	11:08	86°15'58"	17:20	+41°27'19"	23:32	273°42'39"	05:48	21:21	21:00	04:58
26-07-2010	11:04	86°19'21"	17:16	+41°25'09"	23:28	273°39'16"	05:49	21:19	21:21	06:07
27-07-2010	11:01	86°22'46"	17:13	+41°22'59"	23:24	273°35'50"	05:50	21:18	21:39	07:15
28-07-2010	10:58	86°26'13"	17:09	+41°20'47"	23:21	273°32'22"	05:52	21:17	21:55	08:23

Aufgang/Untergang

Datum/Standort

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

Objekt

Planet:
 Saturn

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
29-07-2010	10:54	86°29' 42"	17:05	+41°18' 33"	23:17	273°28' 52"	05:53	21:15	22:11	09:29
30-07-2010	10:51	86°33' 14"	17:02	+41°16' 18"	23:13	273°25' 20"	05:54	21:14	22:26	10:35
31-07-2010	10:47	86°36' 48"	16:58	+41°14' 02"	23:09	273°21' 45"	05:56	21:12	22:42	11:42
01-08-2010	10:44	86°40' 24"	16:55	+41°11' 45"	23:05	273°18' 08"	05:57	21:11	23:00	12:50
02-08-2010	10:40	86°44' 02"	16:51	+41°09' 25"	23:02	273°14' 29"	05:59	21:09	23:22	13:59
03-08-2010	10:37	86°47' 42"	16:47	+41°07' 05"	22:58	273°10' 49"	06:00	21:07	23:51	15:10
04-08-2010	10:34	86°51' 25"	16:44	+41°04' 43"	22:54	273°07' 06"	06:02	21:06	---	16:21
05-08-2010	10:30	86°55' 09"	16:40	+41°02' 21"	22:50	273°03' 21"	06:03	21:04	00:29	17:28
06-08-2010	10:27	86°58' 56"	16:37	+40°59' 56"	22:46	272°59' 34"	06:05	21:02	01:19	18:26
07-08-2010	10:23	87°02' 44"	16:33	+40°57' 31"	22:43	272°55' 45"	06:06	21:01	02:23	19:14
08-08-2010	10:20	87°06' 34"	16:29	+40°55' 04"	22:39	272°51' 54"	06:07	20:59	03:41	19:51
09-08-2010	10:17	87°10' 26"	16:26	+40°52' 36"	22:35	272°48' 01"	06:09	20:57	05:06	20:21
10-08-2010	10:13	87°14' 20"	16:22	+40°50' 07"	22:31	272°44' 07"	06:10	20:55	06:34	20:45
11-08-2010	10:10	87°18' 16"	16:19	+40°47' 37"	22:28	272°40' 11"	06:12	20:54	08:02	21:07
12-08-2010	10:07	87°22' 13"	16:15	+40°45' 06"	22:24	272°36' 13"	06:13	20:52	09:29	21:27
13-08-2010	10:03	87°26' 12"	16:12	+40°42' 34"	22:20	272°32' 13"	06:15	20:50	10:54	21:47
14-08-2010	10:00	87°30' 13"	16:08	+40°40' 01"	22:16	272°28' 12"	06:16	20:48	12:18	22:10
15-08-2010	09:57	87°34' 15"	16:04	+40°37' 26"	22:13	272°24' 10"	06:18	20:46	13:40	22:38
16-08-2010	09:53	87°38' 19"	16:01	+40°34' 51"	22:09	272°20' 05"	06:19	20:44	14:57	23:11
17-08-2010	09:50	87°42' 24"	15:57	+40°32' 15"	22:05	272°16' 00"	06:21	20:42	16:07	23:53
18-08-2010	09:47	87°46' 31"	15:54	+40°29' 38"	22:01	272°11' 52"	06:22	20:40	17:08	---
19-08-2010	09:43	87°50' 39"	15:50	+40°26' 59"	21:57	272°07' 44"	06:24	20:38	17:56	00:44
20-08-2010	09:40	87°54' 49"	15:47	+40°24' 20"	21:54	272°03' 34"	06:26	20:36	18:34	01:43
21-08-2010	09:37	87°59' 00"	15:43	+40°21' 41"	21:50	271°59' 22"	06:27	20:34	19:04	02:49
22-08-2010	09:33	88°03' 12"	15:40	+40°19' 00"	21:46	271°55' 10"	06:29	20:32	19:27	03:57
23-08-2010	09:30	88°07' 26"	15:36	+40°16' 18"	21:42	271°50' 56"	06:30	20:30	19:46	05:05
24-08-2010	09:27	88°11' 41"	15:33	+40°13' 36"	21:39	271°46' 41"	06:32	20:28	20:03	06:13
25-08-2010	09:23	88°15' 57"	15:29	+40°10' 53"	21:35	271°42' 25"	06:33	20:26	20:19	07:20
26-08-2010	09:20	88°20' 14"	15:26	+40°08' 09"	21:31	271°38' 07"	06:35	20:24	20:34	08:26
27-08-2010	09:17	88°24' 32"	15:22	+40°05' 25"	21:27	271°33' 49"	06:36	20:22	20:49	09:32

Aufgang/Untergang

Datum/Standort

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

Objekt

Planet:
 Saturn

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
28-08-2010	09:13	88°28' 52"	15:18	+40°02' 40"	21:24	271°29' 29"	06:38	20:20	21:07	10:39
29-08-2010	09:10	88°33' 12"	15:15	+39°59' 54"	21:20	271°25' 08"	06:39	20:18	21:28	11:47
30-08-2010	09:07	88°37' 33"	15:11	+39°57' 07"	21:16	271°20' 47"	06:41	20:16	21:54	12:57
31-08-2010	09:03	88°41' 56"	15:08	+39°54' 20"	21:13	271°16' 24"	06:42	20:14	22:27	14:06
01-09-2010	09:00	88°46' 19"	15:04	+39°51' 33"	21:09	271°12' 01"	06:44	20:12	23:10	15:13
02-09-2010	08:57	88°50' 44"	15:01	+39°48' 44"	21:05	271°07' 36"	06:45	20:09	---	16:13
03-09-2010	08:54	88°55' 09"	14:57	+39°45' 55"	21:01	271°03' 11"	06:47	20:07	00:07	17:04
04-09-2010	08:50	88°59' 35"	14:54	+39°43' 06"	20:58	270°58' 45"	06:48	20:05	01:16	17:45
05-09-2010	08:47	89°04' 02"	14:50	+39°40' 16"	20:54	270°54' 18"	06:50	20:03	02:35	18:18
06-09-2010	08:44	89°08' 29"	14:47	+39°37' 26"	20:50	270°49' 50"	06:51	20:01	04:00	18:45
07-09-2010	08:41	89°12' 57"	14:43	+39°34' 35"	20:46	270°45' 22"	06:53	19:58	05:28	19:07
08-09-2010	08:37	89°17' 26"	14:40	+39°31' 44"	20:43	270°40' 53"	06:54	19:56	06:56	19:29
09-09-2010	08:34	89°21' 56"	14:36	+39°28' 52"	20:39	270°36' 24"	06:56	19:54	08:23	19:50
10-09-2010	08:31	89°26' 26"	14:33	+39°26' 00"	20:35	270°31' 54"	06:57	19:52	09:50	20:12
11-09-2010	08:27	89°30' 56"	14:29	+39°23' 08"	20:31	270°27' 23"	06:59	19:50	11:15	20:38
12-09-2010	08:24	89°35' 27"	14:26	+39°20' 16"	20:28	270°22' 52"	07:00	19:47	12:37	21:10
13-09-2010	08:21	89°39' 59"	14:22	+39°17' 23"	20:24	270°18' 21"	07:02	19:45	13:53	21:50
14-09-2010	08:18	89°44' 31"	14:19	+39°14' 30"	20:20	270°13' 49"	07:03	19:43	14:59	22:39
15-09-2010	08:14	89°49' 03"	14:15	+39°11' 37"	20:17	270°09' 17"	07:05	19:41	15:52	23:37
16-09-2010	08:11	89°53' 35"	14:12	+39°08' 43"	20:13	270°04' 45"	07:07	19:38	16:34	---
17-09-2010	08:08	89°58' 08"	14:08	+39°05' 50"	20:09	270°00' 12"	07:08	19:36	17:06	00:41
18-09-2010	08:05	90°02' 41"	14:05	+39°02' 56"	20:05	269°55' 39"	07:10	19:34	17:32	01:48
19-09-2010	08:01	90°07' 14"	14:01	+39°00' 02"	20:02	269°51' 06"	07:11	19:32	17:52	02:56
20-09-2010	07:58	90°11' 47"	13:58	+38°57' 08"	19:58	269°46' 33"	07:13	19:30	18:10	04:04
21-09-2010	07:55	90°16' 21"	13:55	+38°54' 14"	19:54	269°42' 00"	07:14	19:27	18:26	05:10
22-09-2010	07:52	90°20' 54"	13:51	+38°51' 20"	19:51	269°37' 27"	07:16	19:25	18:41	06:17
23-09-2010	07:48	90°25' 28"	13:48	+38°48' 26"	19:47	269°32' 54"	07:17	19:23	18:57	07:23
24-09-2010	07:45	90°30' 01"	13:44	+38°45' 32"	19:43	269°28' 20"	07:19	19:21	19:15	08:30
25-09-2010	07:42	90°34' 34"	13:41	+38°42' 38"	19:39	269°23' 47"	07:20	19:18	19:35	09:38
26-09-2010	07:39	90°39' 08"	13:37	+38°39' 44"	19:36	269°19' 14"	07:22	19:16	19:59	10:47

Aufgang/Untergang

Datum/Standort

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

Objekt

Planet:
 Saturn

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
27-09-2010	07:35	90°43'41"	13:34	+38°36'51"	19:32	269°14'41"	07:23	19:14	20:30	11:56
28-09-2010	07:32	90°48'14"	13:30	+38°33'57"	19:28	269°10'08"	07:25	19:12	21:09	13:03
29-09-2010	07:29	90°52'47"	13:27	+38°31'03"	19:25	269°04'57"	07:26	19:09	22:00	14:05
30-09-2010	07:26	90°57'19"	13:23	+38°28'10"	19:21	269°00'25"	07:28	19:07	23:03	14:58
01-10-2010	07:22	91°01'52"	13:20	+38°25'17"	19:17	268°55'53"	07:30	19:05	---	15:41
02-10-2010	07:19	91°06'24"	13:16	+38°22'24"	19:13	268°51'21"	07:31	19:03	00:16	16:16
03-10-2010	07:16	91°10'55"	13:13	+38°19'31"	19:10	268°46'50"	07:33	19:01	01:35	16:44
04-10-2010	07:13	91°15'27"	13:09	+38°16'38"	19:06	268°42'19"	07:34	18:58	02:59	17:08
05-10-2010	07:09	91°19'57"	13:06	+38°13'46"	19:02	268°37'48"	07:36	18:56	04:24	17:29
06-10-2010	07:06	91°24'28"	13:02	+38°10'54"	18:59	268°33'18"	07:37	18:54	05:49	17:50
07-10-2010	07:03	91°28'57"	12:59	+38°08'03"	18:55	268°28'49"	07:39	18:52	07:16	18:12
08-10-2010	07:00	91°33'27"	12:55	+38°05'11"	18:51	268°24'20"	07:41	18:50	08:42	18:37
09-10-2010	06:56	91°37'55"	12:52	+38°02'21"	18:47	268°19'52"	07:42	18:48	10:08	19:07
10-10-2010	06:53	91°42'23"	12:48	+37°59'30"	18:44	268°15'25"	07:44	18:46	11:29	19:44
11-10-2010	06:50	91°46'50"	12:45	+37°56'41"	18:40	268°10'58"	07:46	18:43	12:41	20:31
12-10-2010	06:47	91°51'16"	12:41	+37°53'51"	18:36	268°06'32"	07:47	18:41	13:42	21:26
13-10-2010	06:43	91°55'42"	12:38	+37°51'02"	18:33	268°02'07"	07:49	18:39	14:29	22:30
14-10-2010	06:40	92°00'06"	12:34	+37°48'14"	18:29	267°57'43"	07:50	18:37	15:06	23:37
15-10-2010	06:37	92°04'30"	12:31	+37°45'27"	18:25	267°53'20"	07:52	18:35	15:34	---
16-10-2010	06:34	92°08'53"	12:27	+37°42'40"	18:21	267°48'58"	07:54	18:33	15:57	00:46
17-10-2010	06:30	92°13'15"	12:24	+37°39'53"	18:18	267°44'37"	07:55	18:31	16:15	01:53
18-10-2010	06:27	92°17'36"	12:20	+37°37'07"	18:14	267°40'16"	07:57	18:29	16:32	03:00
19-10-2010	06:24	92°21'55"	12:17	+37°34'22"	18:10	267°35'57"	07:59	18:27	16:48	04:06
20-10-2010	06:21	92°26'14"	12:14	+37°31'38"	18:07	267°31'39"	08:00	18:25	17:04	05:12
21-10-2010	06:17	92°30'32"	12:10	+37°28'54"	18:03	267°27'22"	08:02	18:23	17:21	06:19
22-10-2010	06:14	92°34'48"	12:07	+37°26'12"	17:59	267°23'07"	08:04	18:21	17:40	07:27
23-10-2010	06:11	92°39'03"	12:03	+37°23'29"	17:55	267°18'52"	08:05	18:19	18:04	08:36
24-10-2010	06:07	92°43'17"	12:00	+37°20'48"	17:52	267°14'39"	08:07	18:17	18:33	09:46
25-10-2010	06:04	92°47'29"	11:56	+37°18'08"	17:48	267°10'27"	08:09	18:15	19:10	10:55
26-10-2010	06:01	92°51'41"	11:53	+37°15'28"	17:44	267°06'17"	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:
 Saturn

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

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
26-11-2010	03:17	94°46'42"	09:03	+35°02'31"	14:49	265°12'22"	08:01	16:29	21:31	11:49
27-11-2010	03:14	94°49'49"	08:59	+36°00'32"	14:45	265°09'16"	08:03	16:28	22:51	12:15
28-11-2010	03:10	94°52'53"	08:56	+35°58'36"	14:41	265°06'13"	08:04	16:27	---	12:37
29-11-2010	03:07	94°55'55"	08:52	+35°56'41"	14:38	265°03'12"	08:06	16:26	00:11	12:57
30-11-2010	03:04	94°58'53"	08:49	+35°54'48"	14:34	265°00'15"	08:07	16:26	01:31	13:17
01-12-2010	03:00	95°01'49"	08:45	+35°52'56"	14:30	264°57'20"	08:09	16:25	02:52	13:38
02-12-2010	02:57	95°04'43"	08:41	+35°51'07"	14:26	264°54'28"	08:10	16:25	04:14	14:02
03-12-2010	02:53	95°07'33"	08:38	+35°49'19"	14:23	264°51'39"	08:11	16:24	05:35	14:32
04-12-2010	02:50	95°10'20"	08:34	+35°47'33"	14:19	264°48'52"	08:13	16:24	06:54	15:10
05-12-2010	02:46	95°13'05"	08:31	+35°45'49"	14:15	264°46'09"	08:14	16:23	08:06	15:57
06-12-2010	02:43	95°15'46"	08:27	+35°44'07"	14:11	264°43'29"	08:15	16:23	09:06	16:55
07-12-2010	02:39	95°18'25"	08:23	+35°42'27"	14:08	264°40'51"	08:16	16:23	09:54	18:01
08-12-2010	02:36	95°21'00"	08:20	+35°40'49"	14:04	264°38'17"	08:17	16:22	10:31	19:11
09-12-2010	02:32	95°23'33"	08:16	+35°39'12"	14:00	264°35'46"	08:18	16:22	11:00	20:22
10-12-2010	02:29	95°26'02"	08:12	+35°37'38"	13:56	264°33'18"	08:20	16:22	11:22	21:31
11-12-2010	02:25	95°28'28"	08:09	+35°36'06"	13:52	264°30'53"	08:21	16:22	11:41	22:39
12-12-2010	02:22	95°30'51"	08:05	+35°34'36"	13:49	264°28'31"	08:22	16:22	11:58	23:45
13-12-2010	02:18	95°33'11"	08:01	+35°33'07"	13:45	264°26'12"	08:22	16:22	12:14	---
14-12-2010	02:15	95°35'27"	07:58	+35°31'41"	13:41	264°23'57"	08:23	16:22	12:30	00:50
15-12-2010	02:11	95°37'40"	07:54	+35°30'17"	13:37	264°21'45"	08:24	16:22	12:47	01:56
16-12-2010	02:07	95°39'50"	07:50	+35°28'55"	13:34	264°19'36"	08:25	16:22	13:07	03:04
17-12-2010	02:04	95°41'57"	07:47	+35°27'35"	13:30	264°17'31"	08:26	16:22	13:32	04:13
18-12-2010	02:00	95°44'00"	07:43	+35°26'17"	13:26	264°15'29"	08:26	16:23	14:03	05:23
19-12-2010	01:57	95°46'00"	07:39	+35°25'02"	13:22	264°13'30"	08:27	16:23	14:44	06:32
20-12-2010	01:53	95°47'57"	07:36	+35°23'48"	13:18	264°11'34"	08:28	16:23	15:36	07:35
21-12-2010	01:50	95°49'50"	07:32	+35°22'37"	13:15	264°09'42"	08:28	16:24	16:41	08:30
22-12-2010	01:46	95°51'40"	07:28	+35°21'28"	13:11	264°07'54"	08:29	16:24	17:55	09:15
23-12-2010	01:42	95°53'26"	07:25	+35°20'21"	13:07	264°06'09"	08:29	16:25	19:16	09:50
24-12-2010	01:39	95°55'09"	07:21	+35°19'16"	13:03	264°04'27"	08:30	16:26	20:38	10:19
25-12-2010	01:35	95°56'48"	07:17	+35°18'14"	12:59	264°02'49"	08:30	16:26	22:00	10:42

Aufgang/Untergang

Datum/Standort

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

Objekt

Planet:
 Saturn

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
26-12-2010	01:31	95° 58 ' 24"	07:13	+35° 17 ' 14"	12:56	264° 01 ' 15"	08:30	16:27	23:20	11:03
27-12-2010	01:28	95° 59 ' 56"	07:10	+35° 16 ' 16"	12:52	263° 59 ' 44"	08:31	16:28	---	11:23
28-12-2010	01:24	96° 01 ' 24"	07:06	+35° 15 ' 20"	12:48	263° 58 ' 17"	08:31	16:29	00:41	11:44
29-12-2010	01:20	96° 02 ' 49"	07:02	+35° 14 ' 27"	12:44	263° 56 ' 53"	08:31	16:29	02:01	12:06
30-12-2010	01:17	96° 04 ' 11"	06:59	+35° 13 ' 36"	12:40	263° 55 ' 33"	08:31	16:30	03:21	12:34
31-12-2010	01:13	96° 05 ' 28"	06:55	+35° 12 ' 47"	12:37	263° 54 ' 17"	08:31	16:31	04:39	13:07