

Aufgang/Untergang

Datum/Standort

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

Objekt

Planet:
 Venus

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
01-01-2010	08:24	128°09' 36"	12:21	+15°54' 07"	16:18	231°51' 57"	08:31	16:32	17:37	09:01
02-01-2010	08:25	128°04' 30"	12:22	+15°57' 02"	16:20	231°57' 30"	08:31	16:34	19:06	09:34
03-01-2010	08:27	127°58' 03"	12:24	+16°00' 41"	16:22	232°04' 24"	08:31	16:35	20:34	10:00
04-01-2010	08:28	127°50' 16"	12:26	+16°05' 03"	16:24	232°12' 37"	08:30	16:36	21:59	10:21
05-01-2010	08:29	127°41' 11"	12:27	+16°10' 10"	16:26	232°22' 09"	08:30	16:37	23:21	10:39
06-01-2010	08:30	127°30' 47"	12:29	+16°16' 00"	16:28	232°33' 00"	08:30	16:38	---	10:56
07-01-2010	08:30	127°19' 06"	12:30	+16°22' 33"	16:30	232°45' 08"	08:30	16:39	00:41	11:15
08-01-2010	08:31	127°06' 08"	12:32	+16°29' 49"	16:33	232°58' 32"	08:29	16:41	01:59	11:35
09-01-2010	08:32	126°51' 54"	12:33	+16°37' 48"	16:35	233°13' 12"	08:29	16:42	03:16	12:00
10-01-2010	08:32	126°36' 26"	12:35	+16°46' 29"	16:37	233°29' 06"	08:28	16:43	04:29	12:30
11-01-2010	08:33	126°19' 45"	12:36	+16°55' 52"	16:40	233°46' 14"	08:28	16:45	05:37	13:10
12-01-2010	08:33	126°01' 51"	12:38	+17°05' 56"	16:42	234°04' 33"	08:27	16:46	06:36	13:59
13-01-2010	08:33	125°42' 47"	12:39	+17°16' 42"	16:45	234°24' 03"	08:26	16:48	07:23	14:57
14-01-2010	08:34	125°22' 34"	12:40	+17°28' 08"	16:48	234°44' 43"	08:26	16:49	08:01	16:02
15-01-2010	08:34	125°01' 12"	12:42	+17°40' 15"	16:50	235°06' 30"	08:25	16:51	08:29	17:10
16-01-2010	08:34	124°38' 44"	12:43	+17°53' 01"	16:53	235°29' 24"	08:24	16:52	08:52	18:18
17-01-2010	08:34	124°15' 10"	12:45	+18°06' 26"	16:56	235°53' 22"	08:23	16:54	09:10	19:27
18-01-2010	08:34	123°50' 33"	12:46	+18°20' 29"	16:59	236°18' 24"	08:22	16:55	09:26	20:34
19-01-2010	08:34	123°24' 54"	12:47	+18°35' 11"	17:02	236°44' 28"	08:21	16:57	09:40	21:41
20-01-2010	08:33	122°58' 15"	12:49	+18°50' 30"	17:05	237°11' 32"	08:20	16:58	09:54	22:49
21-01-2010	08:33	122°30' 37"	12:50	+19°06' 26"	17:07	237°39' 34"	08:19	17:00	10:09	23:58
22-01-2010	08:33	122°02' 02"	12:51	+19°22' 58"	17:10	238°08' 34"	08:18	17:02	10:26	---
23-01-2010	08:32	121°32' 31"	12:53	+19°40' 05"	17:13	238°38' 29"	08:17	17:03	10:46	01:10
24-01-2010	08:32	121°02' 07"	12:54	+19°57' 47"	17:16	239°09' 17"	08:16	17:05	11:12	02:25
25-01-2010	08:31	120°30' 50"	12:55	+20°16' 03"	17:20	239°40' 58"	08:15	17:07	11:48	03:40
26-01-2010	08:31	119°58' 42"	12:56	+20°34' 53"	17:23	240°13' 29"	08:13	17:08	12:36	04:53
27-01-2010	08:30	119°25' 45"	12:57	+20°54' 15"	17:26	240°46' 49"	08:12	17:10	13:41	05:57
28-01-2010	08:29	118°52' 00"	12:59	+21°14' 09"	17:29	241°20' 57"	08:11	17:12	15:00	06:49
29-01-2010	08:28	118°17' 29"	13:00	+21°34' 35"	17:32	241°55' 51"	08:10	17:13	16:28	07:28
30-01-2010	08:27	117°42' 14"	13:01	+21°55' 31"	17:35	242°31' 28"	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	08:27	117°06' 15"	13:02	+22°16' 57"	17:38	243°07' 49"	08:07	17:17	19:29	08:22
01-02-2010	08:26	116°29' 35"	13:03	+22°38' 53"	17:41	243°44' 51"	08:05	17:19	20:55	08:42
02-02-2010	08:25	115°52' 15"	13:04	+23°01' 16"	17:44	244°22' 34"	08:04	17:20	22:19	09:01
03-02-2010	08:23	115°14' 16"	13:05	+23°24' 08"	17:48	245°00' 54"	08:02	17:22	23:41	09:19
04-02-2010	08:22	114°35' 39"	13:06	+23°47' 26"	17:51	245°39' 52"	08:01	17:24	---	09:40
05-02-2010	08:21	113°56' 27"	13:07	+24°11' 10"	17:54	246°19' 26"	07:59	17:26	01:01	10:03
06-02-2010	08:20	113°16' 40"	13:08	+24°35' 20"	17:57	246°59' 33"	07:57	17:27	02:18	10:32
07-02-2010	08:19	112°36' 20"	13:09	+24°59' 54"	18:00	247°40' 14"	07:56	17:29	03:29	11:09
08-02-2010	08:17	111°55' 28"	13:10	+25°24' 53"	18:04	248°21' 27"	07:54	17:31	04:31	11:55
09-02-2010	08:16	111°14' 05"	13:11	+25°50' 14"	18:07	249°03' 09"	07:52	17:33	05:22	12:50
10-02-2010	08:15	110°32' 13"	13:12	+26°15' 57"	18:10	249°45' 21"	07:51	17:35	06:02	13:53
11-02-2010	08:13	109°49' 52"	13:13	+26°42' 02"	18:13	250°28' 01"	07:49	17:36	06:33	15:00
12-02-2010	08:12	109°07' 05"	13:14	+27°08' 28"	18:16	251°11' 07"	07:47	17:38	06:58	16:08
13-02-2010	08:10	108°23' 53"	13:14	+27°35' 13"	18:19	251°54' 39"	07:45	17:40	07:17	17:17
14-02-2010	08:09	107°40' 15"	13:15	+28°02' 18"	18:23	252°38' 35"	07:44	17:42	07:34	18:24
15-02-2010	08:07	106°56' 15"	13:16	+28°29' 41"	18:26	253°22' 53"	07:42	17:43	07:49	19:32
16-02-2010	08:06	106°11' 52"	13:17	+28°57' 21"	18:29	254°07' 34"	07:40	17:45	08:03	20:39
17-02-2010	08:04	105°27' 09"	13:18	+29°25' 19"	18:32	254°52' 35"	07:38	17:47	08:18	21:48
18-02-2010	08:03	104°42' 05"	13:18	+29°53' 32"	18:35	255°37' 57"	07:36	17:49	08:34	22:58
19-02-2010	08:01	103°56' 42"	13:19	+30°22' 00"	18:38	256°23' 36"	07:34	17:50	08:52	---
20-02-2010	07:59	103°11' 02"	13:20	+30°50' 43"	18:42	257°09' 34"	07:32	17:52	09:16	00:11
21-02-2010	07:58	102°25' 04"	13:21	+31°19' 39"	18:45	257°55' 47"	07:30	17:54	09:46	01:24
22-02-2010	07:56	101°38' 51"	13:21	+31°48' 48"	18:48	258°42' 17"	07:28	17:56	10:28	02:36
23-02-2010	07:54	100°52' 23"	13:22	+32°18' 09"	18:51	259°29' 01"	07:26	17:57	11:23	03:42
24-02-2010	07:52	100°05' 41"	13:23	+32°47' 42"	18:54	260°15' 58"	07:24	17:59	12:32	04:37
25-02-2010	07:51	99°18' 46"	13:23	+33°17' 25"	18:57	261°03' 09"	07:22	18:01	13:54	05:21
26-02-2010	07:49	98°31' 39"	13:24	+33°47' 18"	19:00	261°50' 31"	07:20	18:02	15:22	05:55
27-02-2010	07:47	97°44' 21"	13:25	+34°17' 19"	19:04	262°38' 04"	07:18	18:04	16:51	06:21
28-02-2010	07:45	96°56' 52"	13:25	+34°47' 30"	19:07	263°25' 47"	07:16	18:06	18:20	06:43
01-03-2010	07:43	96°09' 14"	13:26	+35°17' 48"	19:10	264°13' 39"	07:14	18:08	19:46	07:03

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02-03-2010	07:42	95°21' 27"	13:27	+35°48' 12"	19:13	265°01' 40"	07:12	18:09	21:12	07:22
03-03-2010	07:40	94°33' 32"	13:27	+36°18' 43"	19:16	265°49' 48"	07:10	18:11	22:36	07:42
04-03-2010	07:38	93°45' 30"	13:28	+36°49' 19"	19:19	266°38' 03"	07:08	18:13	23:57	08:05
05-03-2010	07:36	92°57' 22"	13:28	+37°20' 00"	19:22	267°26' 24"	07:06	18:14	---	08:33
06-03-2010	07:34	92°09' 09"	13:29	+37°50' 45"	19:25	268°14' 50"	07:04	18:16	01:13	09:08
07-03-2010	07:32	91°20' 50"	13:30	+38°21' 33"	19:28	269°03' 20"	07:01	18:18	02:20	09:51
08-03-2010	07:30	90°32' 28"	13:30	+38°52' 24"	19:31	269°51' 53"	06:59	18:19	03:16	10:44
09-03-2010	07:28	89°44' 04"	13:31	+39°23' 17"	19:34	270°40' 29"	06:57	18:21	04:01	11:45
10-03-2010	07:26	88°55' 36"	13:31	+39°54' 10"	19:38	271°29' 07"	06:55	18:23	04:35	12:50
11-03-2010	07:25	88°07' 08"	13:32	+40°25' 03"	19:41	272°17' 46"	06:53	18:24	05:02	13:58
12-03-2010	07:23	87°18' 39"	13:33	+40°55' 57"	19:44	273°06' 25"	06:51	18:26	05:23	15:06
13-03-2010	07:21	86°30' 10"	13:33	+41°26' 49"	19:47	273°55' 03"	06:48	18:28	05:41	16:14
14-03-2010	07:19	85°41' 43"	13:34	+41°57' 38"	19:50	274°43' 40"	06:46	18:29	05:56	17:21
15-03-2010	07:17	84°53' 17"	13:34	+42°28' 26"	19:53	275°32' 14"	06:44	18:31	06:11	18:29
16-03-2010	07:15	84°04' 54"	13:35	+42°59' 09"	19:56	276°20' 46"	06:42	18:33	06:26	19:38
17-03-2010	07:13	83°16' 35"	13:35	+43°29' 49"	19:59	277°09' 13"	06:40	18:34	06:42	20:48
18-03-2010	07:11	82°28' 20"	13:36	+44°00' 23"	20:02	277°57' 35"	06:37	18:36	07:00	22:00
19-03-2010	07:09	81°40' 11"	13:37	+44°30' 52"	20:05	278°45' 51"	06:35	18:37	07:22	23:14
20-03-2010	07:07	80°52' 07"	13:37	+45°01' 15"	20:09	279°34' 01"	06:33	18:39	07:50	---
21-03-2010	07:06	80°04' 11"	13:38	+45°31' 30"	20:12	280°22' 03"	06:31	18:41	08:28	00:26
22-03-2010	07:04	79°16' 22"	13:38	+46°01' 37"	20:15	281°09' 57"	06:29	18:42	09:17	01:32
23-03-2010	07:02	78°28' 43"	13:39	+46°31' 35"	20:18	281°57' 41"	06:26	18:44	10:20	02:30
24-03-2010	07:00	77°41' 12"	13:40	+47°01' 24"	20:21	282°45' 16"	06:24	18:46	11:34	03:16
25-03-2010	06:58	76°53' 52"	13:40	+47°31' 03"	20:24	283°32' 39"	06:22	18:47	12:56	03:53
26-03-2010	06:56	76°06' 44"	13:41	+48°00' 31"	20:27	284°19' 51"	06:20	18:49	14:22	04:21
27-03-2010	06:54	75°19' 48"	13:42	+48°29' 47"	20:30	285°06' 49"	06:18	18:50	15:48	04:44
28-03-2010	07:53	74°33' 05"	14:42	+48°58' 51"	21:34	285°53' 34"	07:15	19:52	18:13	06:05
29-03-2010	07:51	73°46' 36"	14:43	+49°27' 42"	21:37	286°40' 04"	07:13	19:54	19:39	06:24
30-03-2010	07:49	73°00' 21"	14:44	+49°56' 19"	21:40	287°26' 18"	07:11	19:55	21:04	06:44
31-03-2010	07:47	72°14' 23"	14:44	+50°24' 42"	21:43	288°12' 16"	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	07:46	71°28'42"	14:45	+50°52'49"	21:46	288°57'56"	07:07	19:58	23:48	07:31
02-04-2010	07:44	70°43'19"	14:46	+51°20'40"	21:49	289°43'18"	07:04	20:00	---	08:04
03-04-2010	07:42	69°58'14"	14:47	+51°48'14"	21:52	290°28'20"	07:02	20:02	01:01	08:44
04-04-2010	07:40	69°13'30"	14:47	+52°15'31"	21:56	291°13'01"	07:00	20:03	02:04	09:35
05-04-2010	07:39	68°29'06"	14:48	+52°42'30"	21:59	291°57'20"	06:58	20:05	02:55	10:34
06-04-2010	07:37	67°45'05"	14:49	+53°09'09"	22:02	292°41'16"	06:56	20:06	03:33	11:39
07-04-2010	07:36	67°01'27"	14:50	+53°35'29"	22:05	293°24'48"	06:54	20:08	04:03	12:46
08-04-2010	07:34	66°18'14"	14:50	+54°01'28"	22:08	294°07'55"	06:51	20:10	04:26	13:54
09-04-2010	07:32	65°35'26"	14:51	+54°27'06"	22:12	294°50'35"	06:49	20:11	04:46	15:02
10-04-2010	07:31	64°53'05"	14:52	+54°52'22"	22:15	295°32'47"	06:47	20:13	05:02	16:09
11-04-2010	07:29	64°11'12"	14:53	+55°17'16"	22:18	296°14'30"	06:45	20:14	05:17	17:17
12-04-2010	07:28	63°29'48"	14:54	+55°41'45"	22:21	296°55'42"	06:43	20:16	05:32	18:25
13-04-2010	07:27	62°48'56"	14:55	+56°05'51"	22:24	297°36'23"	06:41	20:18	05:48	19:35
14-04-2010	07:25	62°08'35"	14:56	+56°29'31"	22:27	298°16'30"	06:39	20:19	06:06	20:48
15-04-2010	07:24	61°28'48"	14:57	+56°52'45"	22:31	298°56'03"	06:37	20:21	06:27	22:01
16-04-2010	07:23	60°49'36"	14:57	+57°15'33"	22:34	299°34'59"	06:35	20:22	06:54	23:15
17-04-2010	07:21	60°11'00"	14:58	+57°37'54"	22:37	300°13'18"	06:32	20:24	07:29	---
18-04-2010	07:20	59°33'01"	14:59	+57°59'47"	22:40	300°50'58"	06:30	20:26	08:15	00:24
19-04-2010	07:19	58°55'43"	15:00	+58°21'11"	22:43	301°27'58"	06:28	20:27	09:14	01:25
20-04-2010	07:18	58°19'04"	15:01	+58°42'06"	22:46	302°04'15"	06:26	20:29	10:25	02:14
21-04-2010	07:17	57°43'09"	15:02	+59°02'30"	22:49	302°39'48"	06:24	20:30	11:43	02:53
22-04-2010	07:16	57°07'57"	15:04	+59°22'24"	22:53	303°14'37"	06:22	20:32	13:05	03:23
23-04-2010	07:15	56°33'31"	15:05	+59°41'46"	22:56	303°48'38"	06:20	20:33	14:28	03:47
24-04-2010	07:14	55°59'52"	15:06	+60°00'36"	22:59	304°21'51"	06:18	20:35	15:51	04:08
25-04-2010	07:13	55°27'01"	15:07	+60°18'53"	23:02	304°54'13"	06:17	20:37	17:13	04:27
26-04-2010	07:12	54°55'01"	15:08	+60°36'37"	23:05	305°25'44"	06:15	20:38	18:36	04:46
27-04-2010	07:12	54°23'53"	15:09	+60°53'47"	23:08	305°56'21"	06:13	20:40	19:59	05:07
28-04-2010	07:11	53°53'39"	15:10	+61°10'22"	23:11	306°26'03"	06:11	20:41	21:21	05:30
29-04-2010	07:10	53°24'20"	15:11	+61°26'21"	23:13	306°54'48"	06:09	20:43	22:38	06:00
30-04-2010	07:10	52°55'58"	15:13	+61°41'45"	23:16	307°22'34"	06:07	20:44	23:47	06:37

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01-05-2010	07:09	52°28'35"	15:14	+61°56'32"	23:19	307°49'20"	06:05	20:46	---	07:24
02-05-2010	07:09	52°02'12"	15:15	+62°10'43"	23:22	308°15'05"	06:04	20:48	00:44	08:20
03-05-2010	07:09	51°36'52"	15:16	+62°24'15"	23:25	308°39'45"	06:02	20:49	01:28	09:24
04-05-2010	07:08	51°12'35"	15:17	+62°37'10"	23:27	309°03'21"	06:00	20:51	02:02	10:32
05-05-2010	07:08	50°49'24"	15:19	+62°49'26"	23:30	309°25'49"	05:58	20:52	02:28	11:40
06-05-2010	07:08	50°27'19"	15:20	+63°01'03"	23:33	309°47'09"	05:57	20:54	02:49	12:48
07-05-2010	07:08	50°06'23"	15:21	+63°12'00"	23:35	310°07'19"	05:55	20:55	03:07	13:56
08-05-2010	07:08	49°46'38"	15:22	+63°22'18"	23:38	310°26'17"	05:53	20:57	03:22	15:02
09-05-2010	07:08	49°28'03"	15:24	+63°31'55"	23:40	310°44'03"	05:52	20:58	03:37	16:10
10-05-2010	07:09	49°10'42"	15:25	+63°40'52"	23:42	311°00'34"	05:50	21:00	03:53	17:19
11-05-2010	07:09	48°54'36"	15:26	+63°49'07"	23:45	311°15'50"	05:49	21:01	04:10	18:30
12-05-2010	07:09	48°39'45"	15:28	+63°56'41"	23:47	311°29'49"	05:47	21:03	04:30	19:44
13-05-2010	07:10	48°26'10"	15:29	+64°03'34"	23:49	311°42'30"	05:46	21:04	04:55	20:59
14-05-2010	07:10	48°13'54"	15:30	+64°09'44"	23:51	311°53'52"	05:44	21:06	05:27	22:11
15-05-2010	07:11	48°02'57"	15:32	+64°15'12"	23:53	312°03'54"	05:43	21:07	06:10	23:17
16-05-2010	07:12	47°53'20"	15:33	+64°19'58"	23:55	312°12'35"	05:41	21:09	07:06	---
17-05-2010	07:13	47°45'03"	15:34	+64°24'01"	23:57	312°19'55"	05:40	21:10	08:15	00:11
18-05-2010	07:13	47°38'08"	15:36	+64°27'22"	23:58	312°25'53"	05:39	21:11	09:33	00:53
19-05-2010	07:14	47°32'35"	15:37	+64°29'59"	00:00(+1T)	312°30'29"	05:37	21:13	10:54	01:26
20-05-2010	07:16	47°28'25"	15:38	+64°31'54"	00:01(+1T)	312°33'42"	05:36	21:14	12:17	01:52
21-05-2010	07:17	47°25'36"	15:40	+64°33'06"	00:03(+1T)	312°35'32"	05:35	21:15	13:38	02:13
22-05-2010	07:18	47°24'11"	15:41	+64°33'35"	00:04(+1T)	312°35'59"	05:34	21:17	14:59	02:32
23-05-2010	07:19	47°24'09"	15:42	+64°33'22"	00:06(+1T)	312°35'03"	05:32	21:18	16:19	02:51
24-05-2010	07:21	47°25'30"	15:44	+64°32'25"	00:07(+1T)	312°32'45"	05:31	21:19	17:40	03:10
25-05-2010	07:22	47°28'13"	15:45	+64°30'46"	00:08(+1T)	312°29'04"	05:30	21:20	19:00	03:32
26-05-2010	07:24	47°32'18"	15:46	+64°28'24"	00:09(+1T)	312°24'01"	05:29	21:22	20:18	03:59
27-05-2010	07:25	47°37'46"	15:48	+64°25'19"	00:10(+1T)	312°17'37"	05:28	21:23	21:30	04:32
28-05-2010	07:27	47°44'35"	15:49	+64°21'32"	00:10(+1T)	312°09'53"	05:27	21:24	22:32	05:14
29-05-2010	07:29	47°52'44"	15:50	+64°17'04"	00:11(+1T)	312°00'48"	05:26	21:25	23:21	06:07
30-05-2010	07:31	48°02'13"	15:52	+64°11'53"	00:12(+1T)	311°50'25"	05:26	21:26	---	07:08

Aufgang/Untergang

Datum/Standort

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Objekt

Planet:
 Venus

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
31-05-2010	07:33	48°13'01"	15:53	+64°06'01"	00:12(+1T)	311°38'43"	05:25	21:27	00:00	08:16
01-06-2010	07:35	48°25'07"	15:54	+63°59'28"	00:13(+1T)	311°25'44"	05:24	21:28	00:29	09:25
02-06-2010	07:37	48°38'30"	15:55	+63°52'13"	00:13(+1T)	311°11'30"	05:23	21:29	00:52	10:34
03-06-2010	07:39	48°53'08"	15:57	+63°44'18"	00:13(+1T)	310°56'02"	05:23	21:30	01:11	11:41
04-06-2010	07:41	49°09'00"	15:58	+63°35'43"	00:14(+1T)	310°39'20"	05:22	21:31	01:27	12:48
05-06-2010	07:43	49°26'06"	15:59	+63°26'28"	00:14(+1T)	310°21'27"	05:21	21:32	01:42	13:54
06-06-2010	07:46	49°44'23"	16:00	+63°16'33"	00:14(+1T)	310°02'23"	05:21	21:33	01:57	15:02
07-06-2010	07:48	50°03'51"	16:01	+63°06'00"	00:13(+1T)	309°42'11"	05:20	21:34	02:13	16:11
08-06-2010	07:51	50°24'26"	16:02	+62°54'48"	00:13(+1T)	309°20'51"	05:20	21:35	02:32	17:24
09-06-2010	07:53	50°46'09"	16:03	+62°42'58"	00:13(+1T)	308°58'26"	05:19	21:36	02:54	18:38
10-06-2010	07:55	51°08'57"	16:05	+62°30'30"	00:13(+1T)	308°34'57"	05:19	21:36	03:23	19:52
11-06-2010	07:58	51°32'49"	16:06	+62°17'26"	00:12(+1T)	308°10'26"	05:19	21:37	04:02	21:01
12-06-2010	08:01	51°57'43"	16:07	+62°03'45"	00:12(+1T)	307°44'55"	05:19	21:38	04:53	22:02
13-06-2010	08:03	52°23'37"	16:08	+61°49'28"	00:11(+1T)	307°18'25"	05:18	21:38	05:58	22:50
14-06-2010	08:06	52°50'29"	16:09	+61°34'36"	00:10(+1T)	306°50'58"	05:18	21:39	07:15	23:27
15-06-2010	08:08	53°18'18"	16:10	+61°19'10"	00:10(+1T)	306°22'36"	05:18	21:39	08:38	23:55
16-06-2010	08:11	53°47'03"	16:11	+61°03'09"	00:09(+1T)	305°53'20"	05:18	21:40	10:03	---
17-06-2010	08:14	54°16'40"	16:12	+60°46'36"	00:08(+1T)	305°23'13"	05:18	21:40	11:26	00:19
18-06-2010	08:17	54°47'09"	16:12	+60°29'29"	00:07(+1T)	304°52'16"	05:18	21:40	12:48	00:39
19-06-2010	08:19	55°18'28"	16:13	+60°11'51"	00:06(+1T)	304°20'30"	05:18	21:41	14:08	00:57
20-06-2010	08:22	55°50'34"	16:14	+59°53'42"	00:05(+1T)	303°47'58"	05:18	21:41	15:28	01:16
21-06-2010	08:25	56°23'27"	16:15	+59°35'02"	00:04(+1T)	303°14'41"	05:18	21:41	16:47	01:37
22-06-2010	08:28	56°57'05"	16:16	+59°15'52"	00:03(+1T)	302°40'41"	05:19	21:41	18:04	02:01
23-06-2010	08:30	57°31'26"	16:17	+58°56'13"	00:01(+1T)	302°05'59"	05:19	21:42	19:17	02:32
24-06-2010	08:33	58°06'28"	16:17	+58°36'05"	00:00(+1T)	301°30'37"	05:19	21:42	20:22	03:10
25-06-2010	08:36	58°42'10"	16:18	+58°15'30"	23:59	300°54'36"	05:20	21:42	21:16	03:58
26-06-2010	08:39	59°18'31"	16:19	+57°54'27"	23:57	300°17'58"	05:20	21:42	21:58	04:56
27-06-2010	08:41	59°55'28"	16:19	+57°32'58"	23:56	299°40'44"	05:20	21:42	22:30	06:01
28-06-2010	08:44	60°33'01"	16:20	+57°11'04"	23:54	299°02'56"	05:21	21:41	22:55	07:10
29-06-2010	08:47	61°11'09"	16:21	+56°48'44"	23:53	298°24'35"	05:21	21:41	23:16	08:19

Aufgang/Untergang

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Objekt

Planet:
 Venus

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
30-06-2010	08:50	61°49'49"	16:21	+56°26'00"	23:51	297°45'43"	05:22	21:41	23:33	09:27
01-07-2010	08:53	62°29'00"	16:22	+56°02'52"	23:49	297°06'20"	05:23	21:41	23:48	10:34
02-07-2010	08:55	63°08'41"	16:22	+55°39'22"	23:48	296°26'27"	05:23	21:41	---	11:41
03-07-2010	08:58	63°48'52"	16:23	+55°15'29"	23:46	295°46'08"	05:24	21:40	00:03	12:47
04-07-2010	09:01	64°29'30"	16:23	+54°51'14"	23:44	295°05'21"	05:25	21:40	00:19	13:55
05-07-2010	09:04	65°10'34"	16:24	+54°26'39"	23:42	294°24'09"	05:26	21:39	00:36	15:04
06-07-2010	09:06	65°52'03"	16:24	+54°01'44"	23:40	293°42'33"	05:26	21:39	00:56	16:16
07-07-2010	09:09	66°33'56"	16:24	+53°36'29"	23:38	293°00'34"	05:27	21:38	01:21	17:29
08-07-2010	09:12	67°16'13"	16:25	+53°10'56"	23:37	292°18'12"	05:28	21:38	01:54	18:41
09-07-2010	09:14	67°58'51"	16:25	+52°45'04"	23:35	291°35'30"	05:29	21:37	02:38	19:46
10-07-2010	09:17	68°41'49"	16:25	+52°18'55"	23:33	290°52'28"	05:30	21:36	03:37	20:40
11-07-2010	09:20	69°25'08"	16:26	+51°52'30"	23:30	290°09'07"	05:31	21:36	04:49	21:23
12-07-2010	09:22	70°08'45"	16:26	+51°25'49"	23:28	289°25'28"	05:32	21:35	06:12	21:56
13-07-2010	09:25	70°52'39"	16:26	+50°58'52"	23:26	288°41'33"	05:33	21:34	07:39	22:22
14-07-2010	09:27	71°36'50"	16:26	+50°31'41"	23:24	287°57'22"	05:34	21:33	09:06	22:43
15-07-2010	09:30	72°21'16"	16:27	+50°04'17"	23:22	287°12'56"	05:35	21:32	10:31	23:03
16-07-2010	09:33	73°05'57"	16:27	+49°36'39"	23:20	286°28'16"	05:36	21:31	11:54	23:22
17-07-2010	09:35	73°50'51"	16:27	+49°08'49"	23:17	285°43'23"	05:38	21:30	13:15	23:43
18-07-2010	09:38	74°35'58"	16:27	+48°40'48"	23:15	284°58'19"	05:39	21:29	14:36	---
19-07-2010	09:40	75°21'16"	16:27	+48°12'36"	23:13	284°13'03"	05:40	21:28	15:54	00:06
20-07-2010	09:43	76°06'46"	16:27	+47°44'13"	23:11	283°27'37"	05:41	21:27	17:08	00:34
21-07-2010	09:45	76°52'25"	16:27	+47°15'41"	23:08	282°42'02"	05:42	21:26	18:15	01:10
22-07-2010	09:48	77°38'13"	16:27	+46°47'00"	23:06	281°56'18"	05:44	21:25	19:12	01:54
23-07-2010	09:50	78°24'10"	16:27	+46°18'11"	23:03	281°10'26"	05:45	21:23	19:57	02:48
24-07-2010	09:52	79°10'14"	16:27	+45°49'15"	23:01	280°24'27"	05:46	21:22	20:32	03:50
25-07-2010	09:55	79°56'26"	16:27	+45°20'11"	22:59	279°38'22"	05:48	21:21	21:00	04:58
26-07-2010	09:57	80°42'43"	16:27	+44°51'01"	22:56	278°52'11"	05:49	21:19	21:21	06:07
27-07-2010	09:59	81°29'05"	16:27	+44°21'46"	22:54	278°05'55"	05:50	21:18	21:39	07:15
28-07-2010	10:02	82°15'33"	16:27	+43°52'26"	22:51	277°19'34"	05:52	21:17	21:55	08:23
29-07-2010	10:04	83°02'04"	16:27	+43°23'01"	22:49	276°33'11"	05:53	21:15	22:11	09:29

Aufgang/Untergang

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Objekt

Planet:
 Venus

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
30-07-2010	10:06	83°48'39"	16:27	+42°53'32"	22:46	275°46'44"	05:54	21:14	22:26	10:35
31-07-2010	10:09	84°35'16"	16:27	+42°24'00"	22:44	275°00'15"	05:56	21:12	22:42	11:42
01-08-2010	10:11	85°21'55"	16:27	+41°54'26"	22:41	274°13'44"	05:57	21:11	23:00	12:50
02-08-2010	10:13	86°08'36"	16:26	+41°24'50"	22:38	273°27'12"	05:59	21:09	23:22	13:59
03-08-2010	10:15	86°55'17"	16:26	+40°55'12"	22:36	272°40'40"	06:00	21:07	23:51	15:10
04-08-2010	10:17	87°41'58"	16:26	+40°25'33"	22:33	271°54'08"	06:02	21:06	---	16:21
05-08-2010	10:20	88°28'39"	16:26	+39°55'55"	22:30	271°07'38"	06:03	21:04	00:29	17:28
06-08-2010	10:22	89°15'19"	16:25	+39°26'17"	22:28	270°21'08"	06:05	21:02	01:19	18:26
07-08-2010	10:24	90°01'56"	16:25	+38°56'39"	22:25	269°34'41"	06:06	21:01	02:23	19:14
08-08-2010	10:26	90°48'31"	16:25	+38°27'04"	22:22	268°48'17"	06:07	20:59	03:41	19:51
09-08-2010	10:28	91°35'03"	16:24	+37°57'31"	22:20	268°01'56"	06:09	20:57	05:06	20:21
10-08-2010	10:30	92°21'31"	16:24	+37°28'01"	22:17	267°15'40"	06:10	20:55	06:34	20:45
11-08-2010	10:32	93°07'54"	16:24	+36°58'34"	22:14	266°29'29"	06:12	20:54	08:02	21:07
12-08-2010	10:34	93°54'11"	16:23	+36°29'12"	22:11	265°43'23"	06:13	20:52	09:29	21:27
13-08-2010	10:36	94°40'23"	16:23	+35°59'54"	22:09	264°57'24"	06:15	20:50	10:54	21:47
14-08-2010	10:38	95°26'27"	16:22	+35°30'42"	22:06	264°11'32"	06:16	20:48	12:18	22:10
15-08-2010	10:40	96°12'24"	16:22	+35°01'37"	22:03	263°25'48"	06:18	20:46	13:40	22:38
16-08-2010	10:42	96°58'13"	16:22	+34°32'38"	22:00	262°40'13"	06:19	20:44	14:57	23:11
17-08-2010	10:44	97°43'52"	16:21	+34°03'47"	21:57	261°54'47"	06:21	20:42	16:07	23:53
18-08-2010	10:46	98°29'21"	16:21	+33°35'04"	21:54	261°09'32"	06:22	20:40	17:08	---
19-08-2010	10:47	99°14'40"	16:20	+33°06'29"	21:52	260°24'27"	06:24	20:38	17:56	00:44
20-08-2010	10:49	99°59'47"	16:19	+32°38'04"	21:49	259°39'34"	06:26	20:36	18:34	01:43
21-08-2010	10:51	100°44'43"	16:19	+32°09'50"	21:46	258°54'53"	06:27	20:34	19:04	02:49
22-08-2010	10:53	101°29'25"	16:18	+31°41'45"	21:43	258°10'25"	06:29	20:32	19:27	03:57
23-08-2010	10:54	102°13'54"	16:18	+31°13'52"	21:40	257°26'11"	06:30	20:30	19:46	05:05
24-08-2010	10:56	102°58'08"	16:17	+30°46'11"	21:37	256°42'12"	06:32	20:28	20:03	06:13
25-08-2010	10:58	103°42'08"	16:16	+30°18'42"	21:34	255°58'28"	06:33	20:26	20:19	07:20
26-08-2010	10:59	104°25'51"	16:16	+29°51'26"	21:31	255°15'01"	06:35	20:24	20:34	08:26
27-08-2010	11:01	105°09'18"	16:15	+29°24'24"	21:28	254°31'50"	06:36	20:22	20:49	09:32
28-08-2010	11:02	105°52'27"	16:14	+28°57'37"	21:25	253°48'57"	06:38	20:20	21:07	10:39

Aufgang/Untergang

Datum/Standort

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Objekt

Planet:
 Venus

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
29-08-2010	11:04	106°35' 17"	16:13	+28°31' 04"	21:22	253°06' 23"	06:39	20:18	21:28	11:47
30-08-2010	11:05	107°17' 49"	16:13	+28°04' 47"	21:19	252°24' 08"	06:41	20:16	21:54	12:57
31-08-2010	11:07	108°00' 00"	16:12	+27°38' 46"	21:16	251°42' 13"	06:42	20:14	22:27	14:06
01-09-2010	11:08	108°41' 50"	16:11	+27°13' 02"	21:13	251°00' 40"	06:44	20:12	23:10	15:13
02-09-2010	11:09	109°23' 18"	16:10	+26°47' 35"	21:09	250°19' 29"	06:45	20:09	---	16:13
03-09-2010	11:11	110°04' 23"	16:09	+26°22' 27"	21:06	249°38' 42"	06:47	20:07	00:07	17:04
04-09-2010	11:12	110°45' 04"	16:08	+25°57' 37"	21:03	248°58' 19"	06:48	20:05	01:16	17:45
05-09-2010	11:13	111°25' 19"	16:07	+25°33' 07"	21:00	248°18' 21"	06:50	20:03	02:35	18:18
06-09-2010	11:14	112°05' 09"	16:06	+25°08' 57"	20:57	247°38' 50"	06:51	20:01	04:00	18:45
07-09-2010	11:15	112°44' 31"	16:05	+24°45' 09"	20:53	246°59' 46"	06:53	19:58	05:28	19:07
08-09-2010	11:16	113°23' 24"	16:04	+24°21' 42"	20:50	246°21' 12"	06:54	19:56	06:56	19:29
09-09-2010	11:17	114°01' 47"	16:02	+23°58' 37"	20:47	245°43' 08"	06:56	19:54	08:23	19:50
10-09-2010	11:18	114°39' 38"	16:01	+23°35' 56"	20:44	245°05' 36"	06:57	19:52	09:50	20:12
11-09-2010	11:19	115°16' 56"	16:00	+23°13' 39"	20:40	244°28' 38"	06:59	19:50	11:15	20:38
12-09-2010	11:20	115°53' 40"	15:59	+22°51' 48"	20:37	243°52' 15"	07:00	19:47	12:37	21:10
13-09-2010	11:20	116°29' 47"	15:57	+22°30' 22"	20:33	243°16' 28"	07:02	19:45	13:53	21:50
14-09-2010	11:21	117°05' 16"	15:56	+22°09' 24"	20:30	242°41' 20"	07:03	19:43	14:59	22:39
15-09-2010	11:21	117°40' 05"	15:54	+21°48' 53"	20:26	242°06' 52"	07:05	19:41	15:52	23:37
16-09-2010	11:22	118°14' 12"	15:53	+21°28' 51"	20:23	241°33' 07"	07:07	19:38	16:34	---
17-09-2010	11:22	118°47' 35"	15:51	+21°09' 20"	20:19	241°00' 06"	07:08	19:36	17:06	00:41
18-09-2010	11:22	119°20' 13"	15:49	+20°50' 19"	20:16	240°27' 51"	07:10	19:34	17:32	01:48
19-09-2010	11:22	119°52' 02"	15:47	+20°31' 51"	20:12	239°56' 25"	07:11	19:32	17:52	02:56
20-09-2010	11:22	120°23' 01"	15:46	+20°13' 55"	20:09	239°25' 49"	07:13	19:30	18:10	04:04
21-09-2010	11:22	120°53' 08"	15:44	+19°56' 35"	20:05	238°56' 07"	07:14	19:27	18:26	05:10
22-09-2010	11:21	121°22' 19"	15:41	+19°39' 49"	20:01	238°27' 21"	07:16	19:25	18:41	06:17
23-09-2010	11:21	121°50' 31"	15:39	+19°23' 41"	19:57	237°59' 34"	07:17	19:23	18:57	07:23
24-09-2010	11:20	122°17' 43"	15:37	+19°08' 11"	19:54	237°32' 48"	07:19	19:21	19:15	08:30
25-09-2010	11:19	122°43' 51"	15:35	+18°53' 21"	19:50	237°07' 38"	07:20	19:18	19:35	09:38
26-09-2010	11:18	123°08' 52"	15:32	+18°39' 13"	19:46	236°42' 56"	07:22	19:16	19:59	10:47
27-09-2010	11:17	123°32' 43"	15:30	+18°25' 47"	19:42	236°19' 24"	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:
 Venus

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
28-09-2010	11:16	123°55' 20"	15:27	+18°13' 06"	19:38	235°57' 08"	07:25	19:12	21:09	13:03
29-09-2010	11:14	124°16' 39"	15:24	+18°01' 11"	19:34	235°36' 10"	07:26	19:09	22:00	14:05
30-09-2010	11:13	124°36' 36"	15:22	+17°50' 04"	19:30	235°16' 35"	07:28	19:07	23:03	14:58
01-10-2010	11:11	124°55' 09"	15:18	+17°39' 47"	19:26	234°58' 26"	07:30	19:05	---	15:41
02-10-2010	11:09	125°12' 11"	15:15	+17°30' 22"	19:22	234°41' 48"	07:31	19:03	00:16	16:16
03-10-2010	11:06	125°27' 40"	15:12	+17°21' 52"	19:17	234°27' 25"	07:33	19:01	01:35	16:44
04-10-2010	11:04	125°41' 30"	15:09	+17°14' 18"	19:13	234°14' 10"	07:34	18:58	02:59	17:08
05-10-2010	11:01	125°53' 37"	15:05	+17°07' 42"	19:09	234°02' 40"	07:36	18:56	04:24	17:29
06-10-2010	10:58	126°03' 57"	15:01	+17°02' 08"	19:05	233°52' 59"	07:37	18:54	05:49	17:50
07-10-2010	10:55	126°12' 23"	14:58	+16°57' 37"	19:00	233°45' 12"	07:39	18:52	07:16	18:12
08-10-2010	10:51	126°18' 52"	14:54	+16°54' 12"	18:56	233°39' 24"	07:41	18:50	08:42	18:37
09-10-2010	10:47	126°22' 50"	14:50	+16°51' 56"	18:52	233°35' 40"	07:42	18:48	10:08	19:07
10-10-2010	10:43	126°26' 13"	14:45	+16°50' 51"	18:47	233°34' 05"	07:44	18:46	11:29	19:44
11-10-2010	10:39	126°25' 44"	14:41	+16°51' 00"	18:43	233°34' 44"	07:46	18:43	12:41	20:31
12-10-2010	10:34	126°23' 35"	14:36	+16°52' 24"	18:38	233°37' 39"	07:47	18:41	13:42	21:26
13-10-2010	10:29	126°19' 06"	14:32	+16°55' 07"	18:34	233°42' 57"	07:49	18:39	14:29	22:30
14-10-2010	10:24	126°12' 13"	14:27	+16°59' 10"	18:30	233°50' 39"	07:50	18:37	15:06	23:37
15-10-2010	10:18	126°02' 54"	14:22	+17°04' 35"	18:25	234°00' 49"	07:52	18:35	15:34	---
16-10-2010	10:13	125°51' 07"	14:17	+17°11' 24"	18:21	234°13' 28"	07:54	18:33	15:57	00:46
17-10-2010	10:07	125°36' 49"	14:11	+17°19' 37"	18:16	234°28' 37"	07:55	18:31	16:15	01:53
18-10-2010	10:00	125°20' 01"	14:06	+17°29' 16"	18:12	234°46' 18"	07:57	18:29	16:32	03:00
19-10-2010	09:53	125°00' 45"	14:00	+17°40' 20"	18:08	235°06' 27"	07:59	18:27	16:48	04:06
20-10-2010	09:47	124°39' 00"	13:55	+17°52' 49"	18:03	235°29' 04"	08:00	18:25	17:04	05:12
21-10-2010	09:39	124°14' 52"	13:49	+18°06' 41"	17:59	235°54' 05"	08:02	18:23	17:21	06:19
22-10-2010	09:32	123°48' 23"	13:43	+18°21' 56"	17:55	236°20' 48"	08:04	18:21	17:40	07:27
23-10-2010	09:24	123°19' 41"	13:37	+18°38' 29"	17:51	236°50' 31"	08:05	18:19	18:04	08:36
24-10-2010	09:17	122°48' 52"	13:31	+18°56' 18"	17:46	237°22' 21"	08:07	18:17	18:33	09:46
25-10-2010	09:09	122°16' 05"	13:25	+19°15' 18"	17:42	237°56' 07"	08:09	18:15	19:10	10:55
26-10-2010	09:01	121°41' 29"	13:19	+19°35' 25"	17:38	238°31' 39"	08:10	18:13	19:58	11:58
27-10-2010	08:53	121°05' 16"	13:13	+19°56' 32"	17:34	239°08' 47"	08:12	18:11	20:57	12:54

Aufgang/Untergang

Datum/Standort

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

Objekt

Planet:
 Venus

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
28-10-2010	08:44	120°27'37"	13:07	+20°18'34"	17:30	239°46'30"	08:14	18:09	22:06	13:40
29-10-2010	08:36	119°48'44"	13:01	+20°41'22"	17:27	240°25'53"	08:15	18:08	23:22	14:16
30-10-2010	08:28	119°08'52"	12:55	+21°04'51"	17:23	241°06'12"	08:17	18:06	---	14:46
31-10-2010	07:19	118°28'14"	11:49	+21°28'50"	16:19	241°47'11"	07:19	17:04	00:42	14:10
01-11-2010	07:11	117°47'04"	11:43	+21°53'14"	16:16	242°28'38"	07:20	17:02	01:03	14:32
02-11-2010	07:03	117°05'36"	11:37	+22°17'52"	16:12	243°10'17"	07:22	17:01	02:25	14:52
03-11-2010	06:55	116°24'04"	11:31	+22°42'37"	16:09	243°51'55"	07:24	16:59	03:48	15:13
04-11-2010	06:47	115°42'42"	11:26	+23°07'20"	16:05	244°33'18"	07:26	16:57	05:12	15:36
05-11-2010	06:39	115°01'42"	11:20	+23°31'53"	16:02	245°14'14"	07:27	16:55	06:36	16:03
06-11-2010	06:31	114°21'18"	11:15	+23°56'09"	15:59	245°54'29"	07:29	16:54	08:00	16:36
07-11-2010	06:24	113°41'40"	11:09	+24°20'00"	15:56	246°33'53"	07:31	16:52	09:17	17:19
08-11-2010	06:16	113°02'59"	11:04	+24°43'20"	15:53	247°12'14"	07:32	16:51	10:25	18:12
09-11-2010	06:09	112°25'26"	10:59	+25°06'01"	15:50	247°49'24"	07:34	16:49	11:19	19:13
10-11-2010	06:02	111°49'09"	10:54	+25°27'58"	15:47	248°25'14"	07:36	16:48	12:02	20:21
11-11-2010	05:56	111°14'16"	10:49	+25°49'06"	15:44	248°59'35"	07:37	16:46	12:34	21:31
12-11-2010	05:49	110°40'55"	10:45	+26°09'20"	15:41	249°32'22"	07:39	16:45	12:59	22:40
13-11-2010	05:43	110°09'11"	10:40	+26°28'36"	15:38	250°03'29"	07:41	16:43	13:19	23:47
14-11-2010	05:37	109°39'10"	10:36	+26°46'51"	15:35	250°32'50"	07:42	16:42	13:37	---
15-11-2010	05:31	109°10'55"	10:32	+27°04'01"	15:33	251°00'24"	07:44	16:41	13:53	00:54
16-11-2010	05:26	108°44'29"	10:28	+27°20'05"	15:30	251°26'05"	07:46	16:39	14:09	01:59
17-11-2010	05:20	108°19'56"	10:24	+27°35'01"	15:27	251°49'54"	07:47	16:38	14:25	03:05
18-11-2010	05:15	107°57'16"	10:20	+27°48'47"	15:25	252°11'47"	07:49	16:37	14:44	04:13
19-11-2010	05:11	107°36'30"	10:16	+28°01'24"	15:22	252°31'46"	07:51	16:36	15:06	05:22
20-11-2010	05:06	107°17'39"	10:13	+28°12'50"	15:20	252°49'49"	07:52	16:35	15:33	06:32
21-11-2010	05:02	107°01'12"	10:09	+28°23'06"	15:17	253°05'59"	07:54	16:34	16:08	07:42
22-11-2010	04:58	106°45'22"	10:06	+28°32'12"	15:15	253°20'14"	07:55	16:33	16:53	08:48
23-11-2010	04:54	106°32'28"	10:03	+28°40'08"	15:13	253°32'39"	07:57	16:32	17:50	09:48
24-11-2010	04:51	106°21'08"	10:00	+28°46'57"	15:10	253°43'13"	07:58	16:31	18:57	10:38
25-11-2010	04:47	106°11'35"	09:58	+28°52'39"	15:08	253°52'00"	08:00	16:30	20:12	11:17
26-11-2010	04:44	106°03'48"	09:55	+28°57'16"	15:06	253°59'02"	08:01	16:29	21:31	11:49

Aufgang/Untergang

Datum/Standort

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

Objekt

Planet:
 Venus

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
27-11-2010	04:41	105°57' 44"	09:52	+29°00' 48"	15:04	254°04' 22"	08:03	16:28	22:51	12:15
28-11-2010	04:39	105°53' 21"	09:50	+29°03' 19"	15:01	254°08' 03"	08:04	16:27	---	12:37
29-11-2010	04:36	105°50' 34"	09:48	+29°04' 50"	14:59	254°10' 09"	08:06	16:26	00:11	12:57
30-11-2010	04:34	105°49' 22"	09:45	+29°05' 23"	14:57	254°10' 41"	08:07	16:26	01:31	13:17
01-12-2010	04:32	105°49' 40"	09:43	+29°05' 00"	14:55	254°09' 45"	08:09	16:25	02:52	13:38
02-12-2010	04:30	105°51' 25"	09:41	+29°03' 42"	14:53	254°07' 23"	08:10	16:25	04:14	14:02
03-12-2010	04:28	105°54' 35"	09:39	+29°01' 33"	14:51	254°03' 38"	08:11	16:24	05:35	14:32
04-12-2010	04:26	105°59' 04"	09:38	+28°58' 35"	14:49	253°58' 34"	08:13	16:24	06:54	15:10
05-12-2010	04:25	106°04' 52"	09:36	+28°54' 49"	14:47	253°52' 15"	08:14	16:23	08:06	15:57
06-12-2010	04:24	106°11' 52"	09:34	+28°50' 17"	14:45	253°44' 43"	08:15	16:23	09:06	16:55
07-12-2010	04:23	106°20' 04"	09:33	+28°45' 03"	14:43	253°36' 03"	08:16	16:23	09:54	18:01
08-12-2010	04:22	106°29' 23"	09:31	+28°39' 07"	14:41	253°26' 16"	08:17	16:22	10:31	19:11
09-12-2010	04:21	106°39' 46"	09:30	+28°32' 31"	14:39	253°15' 27"	08:18	16:22	11:00	20:22
10-12-2010	04:20	106°51' 10"	09:29	+28°25' 19"	14:37	253°03' 38"	08:20	16:22	11:22	21:31
11-12-2010	04:19	107°03' 32"	09:27	+28°17' 31"	14:35	252°50' 52"	08:21	16:22	11:41	22:39
12-12-2010	04:19	107°16' 49"	09:26	+28°09' 10"	14:33	252°37' 13"	08:22	16:22	11:58	23:45
13-12-2010	04:19	107°30' 59"	09:25	+28°00' 18"	14:31	252°22' 43"	08:22	16:22	12:14	---
14-12-2010	04:18	107°45' 57"	09:24	+27°50' 56"	14:29	252°07' 26"	08:23	16:22	12:30	00:50
15-12-2010	04:18	108°01' 42"	09:23	+27°41' 06"	14:28	251°51' 23"	08:24	16:22	12:47	01:56
16-12-2010	04:18	108°18' 11"	09:22	+27°30' 50"	14:26	251°34' 38"	08:25	16:22	13:07	03:04
17-12-2010	04:18	108°35' 20"	09:21	+27°20' 10"	14:24	251°17' 14"	08:26	16:22	13:32	04:13
18-12-2010	04:18	108°53' 08"	09:21	+27°09' 07"	14:22	250°59' 12"	08:26	16:23	14:03	05:23
19-12-2010	04:19	109°11' 31"	09:20	+26°57' 44"	14:21	250°40' 36"	08:27	16:23	14:44	06:32
20-12-2010	04:19	109°30' 27"	09:19	+26°46' 01"	14:19	250°21' 29"	08:28	16:23	15:36	07:35
21-12-2010	04:20	109°49' 54"	09:19	+26°34' 01"	14:17	250°01' 52"	08:28	16:24	16:41	08:30
22-12-2010	04:20	110°09' 48"	09:18	+26°21' 45"	14:16	249°41' 48"	08:29	16:24	17:55	09:15
23-12-2010	04:21	110°30' 08"	09:18	+26°09' 15"	14:14	249°21' 20"	08:29	16:25	19:16	09:50
24-12-2010	04:21	110°50' 51"	09:17	+25°56' 32"	14:12	249°00' 30"	08:30	16:26	20:38	10:19
25-12-2010	04:22	111°11' 55"	09:17	+25°43' 38"	14:11	248°39' 21"	08:30	16:26	22:00	10:42
26-12-2010	04:23	111°33' 16"	09:16	+25°30' 35"	14:09	248°17' 55"	08:30	16:27	23:20	11:03

Aufgang/Untergang

Datum/Standort

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

Planet:
 Venus

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
27-12-2010	04:24	111°54' 54"	09:16	+25°17' 23"	14:08	247°56' 14"	08:31	16:28	---	11:23
28-12-2010	04:25	112°16' 45"	09:16	+25°04' 05"	14:07	247°34' 20"	08:31	16:29	00:41	11:44
29-12-2010	04:26	112°38' 47"	09:16	+24°50' 41"	14:05	247°12' 16"	08:31	16:29	02:01	12:06
30-12-2010	04:27	113°00' 58"	09:15	+24°37' 14"	14:04	246°50' 05"	08:31	16:30	03:21	12:34
31-12-2010	04:28	113°23' 15"	09:15	+24°23' 44"	14:02	246°27' 47"	08:31	16:31	04:39	13:07