

Sichtbarkeit

Datum/Standort

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

Objekt

Planet:
 Uranus

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-01-2010	23h35m47s	- 3°25' 43"	275°05' 26"	-8°37' 21"	5.88 m	20.368 AE	3.46"	+ 72.7°	99 %	+ 109.7°
02-01-2010	23h35m53s	- 3°25' 05"	275°50' 56"	-9°13' 26"	5.88 m	20.384 AE	3.46"	+ 71.7°	98 %	+ 124.9°
03-01-2010	23h35m59s	- 3°24' 25"	276°36' 32"	-9°49' 25"	5.88 m	20.401 AE	3.46"	+ 70.7°	93 %	+ 140.0°
04-01-2010	23h36m05s	- 3°23' 45"	277°22' 14"	-10°25' 19"	5.88 m	20.417 AE	3.45"	+ 69.7°	85 %	+ 154.8°
05-01-2010	23h36m11s	- 3°23' 03"	278°08' 04"	-11°01' 07"	5.88 m	20.433 AE	3.45"	+ 68.7°	76 %	+ 168.5°
06-01-2010	23h36m17s	- 3°22' 20"	278°54' 01"	-11°36' 48"	5.89 m	20.449 AE	3.45"	+ 67.7°	66 %	+ 172.7°
07-01-2010	23h36m24s	- 3°21' 36"	279°40' 06"	-12°12' 22"	5.89 m	20.465 AE	3.44"	+ 66.7°	55 %	+ 160.9°
08-01-2010	23h36m30s	- 3°20' 51"	280°26' 21"	-12°47' 49"	5.89 m	20.481 AE	3.44"	+ 65.7°	44 %	+ 147.9°
09-01-2010	23h36m37s	- 3°20' 05"	281°12' 45"	-13°23' 08"	5.89 m	20.497 AE	3.44"	+ 64.8°	34 %	+ 135.1°
10-01-2010	23h36m44s	- 3°19' 18"	281°59' 20"	-13°58' 19"	5.89 m	20.512 AE	3.44"	+ 63.8°	24 %	+ 122.6°
11-01-2010	23h36m51s	- 3°18' 30"	282°46' 05"	-14°33' 21"	5.89 m	20.528 AE	3.43"	+ 62.8°	16 %	+ 110.3°
12-01-2010	23h36m58s	- 3°17' 41"	283°33' 02"	-15°08' 14"	5.90 m	20.543 AE	3.43"	+ 61.8°	10 %	+ 98.1°
13-01-2010	23h37m05s	- 3°16' 51"	284°20' 11"	-15°42' 58"	5.90 m	20.558 AE	3.43"	+ 60.8°	4 %	+ 86.2°
14-01-2010	23h37m13s	- 3°16' 01"	285°07' 33"	-16°17' 33"	5.90 m	20.573 AE	3.43"	+ 59.8°	1 %	+ 74.4°
15-01-2010	23h37m21s	- 3°15' 09"	285°55' 08"	-16°51' 57"	5.90 m	20.588 AE	3.42"	+ 58.8°	0 %	+ 62.6°
16-01-2010	23h37m29s	- 3°14' 16"	286°42' 57"	-17°26' 10"	5.90 m	20.603 AE	3.42"	+ 57.9°	0 %	+ 51.0°
17-01-2010	23h37m37s	- 3°13' 22"	287°31' 01"	-18°00' 13"	5.90 m	20.617 AE	3.42"	+ 56.9°	2 %	+ 39.4°
18-01-2010	23h37m45s	- 3°12' 27"	288°19' 21"	-18°34' 04"	5.90 m	20.632 AE	3.42"	+ 55.9°	6 %	+ 27.9°
19-01-2010	23h37m53s	- 3°11' 32"	289°07' 56"	-19°07' 44"	5.91 m	20.646 AE	3.41"	+ 54.9°	11 %	+ 16.6°
20-01-2010	23h38m01s	- 3°10' 35"	289°56' 48"	-19°41' 11"	5.91 m	20.660 AE	3.41"	+ 53.9°	18 %	+ 6.4°
21-01-2010	23h38m10s	- 3°09' 38"	290°45' 58"	-20°14' 25"	5.91 m	20.674 AE	3.41"	+ 53.0°	26 %	+ 9.3°
22-01-2010	23h38m19s	- 3°08' 39"	291°35' 25"	-20°47' 27"	5.91 m	20.688 AE	3.41"	+ 52.0°	35 %	+ 20.6°
23-01-2010	23h38m28s	- 3°07' 40"	292°25' 11"	-21°20' 15"	5.91 m	20.702 AE	3.40"	+ 51.0°	45 %	+ 32.8°
24-01-2010	23h38m37s	- 3°06' 40"	293°15' 16"	-21°52' 48"	5.91 m	20.715 AE	3.40"	+ 50.0°	55 %	+ 45.5°
25-01-2010	23h38m46s	- 3°05' 39"	294°05' 40"	-22°25' 08"	5.91 m	20.728 AE	3.40"	+ 49.0°	65 %	+ 58.6°
26-01-2010	23h38m55s	- 3°04' 38"	294°56' 26"	-22°57' 12"	5.92 m	20.741 AE	3.40"	+ 48.1°	75 %	+ 72.3°
27-01-2010	23h39m04s	- 3°03' 35"	295°47' 32"	-23°29' 01"	5.92 m	20.754 AE	3.40"	+ 47.1°	84 %	+ 86.5°
28-01-2010	23h39m14s	- 3°02' 32"	296°39' 00"	-24°00' 33"	5.92 m	20.767 AE	3.39"	+ 46.1°	92 %	+ 101.2°
29-01-2010	23h39m23s	- 3°01' 28"	297°30' 50"	-24°31' 50"	5.92 m	20.779 AE	3.39"	+ 45.1°	97 %	+ 116.3°
30-01-2010	23h39m33s	- 3°00' 24"	298°23' 04"	-25°02' 49"	5.92 m	20.791 AE	3.39"	+ 44.2°	99 %	+ 131.6°

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Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
31-01-2010	23h39m43s	- 2°59' 18"	299°15' 40"	-25°33' 31"	5.92 m	20.803 AE	3.39"	+ 43.2°	99 %	+ 146.9°
01-02-2010	23h39m53s	- 2°58' 12"	300°08' 41"	-26°03' 55"	5.92 m	20.815 AE	3.39"	+ 42.2°	95 %	+ 161.8°
02-02-2010	23h40m03s	- 2°57' 05"	301°02' 07"	-26°34' 00"	5.92 m	20.827 AE	3.38"	+ 41.3°	89 %	+ 173.7°
03-02-2010	23h40m13s	- 2°55' 58"	301°55' 57"	-27°03' 46"	5.92 m	20.838 AE	3.38"	+ 40.3°	81 %	+ 166.3°
04-02-2010	23h40m23s	- 2°54' 49"	302°50' 14"	-27°33' 13"	5.93 m	20.849 AE	3.38"	+ 39.3°	71 %	+ 153.0°
05-02-2010	23h40m34s	- 2°53' 41"	303°44' 57"	-28°02' 19"	5.93 m	20.860 AE	3.38"	+ 38.4°	60 %	+ 139.7°
06-02-2010	23h40m44s	- 2°52' 31"	304°40' 06"	-28°31' 05"	5.93 m	20.871 AE	3.38"	+ 37.4°	50 %	+ 126.8°
07-02-2010	23h40m55s	- 2°51' 21"	305°35' 43"	-28°59' 29"	5.93 m	20.881 AE	3.38"	+ 36.4°	40 %	+ 114.2°
08-02-2010	23h41m06s	- 2°50' 10"	306°31' 48"	-29°27' 31"	5.93 m	20.892 AE	3.37"	+ 35.5°	30 %	+ 102.0°
09-02-2010	23h41m16s	- 2°48' 59"	307°28' 21"	-29°55' 11"	5.93 m	20.902 AE	3.37"	+ 34.5°	22 %	+ 90.0°
10-02-2010	23h41m27s	- 2°47' 47"	308°25' 23"	-30°22' 27"	5.93 m	20.911 AE	3.37"	+ 33.5°	14 %	+ 78.2°
11-02-2010	23h41m38s	- 2°46' 34"	309°22' 54"	-30°49' 20"	5.93 m	20.921 AE	3.37"	+ 32.6°	8 %	+ 66.5°
12-02-2010	23h41m49s	- 2°45' 21"	310°20' 55"	-31°15' 48"	5.93 m	20.930 AE	3.37"	+ 31.6°	4 %	+ 54.9°
13-02-2010	23h42m01s	- 2°44' 07"	311°19' 26"	-31°41' 51"	5.93 m	20.939 AE	3.37"	+ 30.7°	1 %	+ 43.4°
14-02-2010	23h42m12s	- 2°42' 53"	312°18' 27"	-32°07' 29"	5.94 m	20.948 AE	3.36"	+ 29.7°	0 %	+ 31.8°
15-02-2010	23h42m23s	- 2°41' 38"	313°17' 59"	-32°32' 40"	5.94 m	20.957 AE	3.36"	+ 28.8°	0 %	+ 20.4°
16-02-2010	23h42m35s	- 2°40' 23"	314°18' 02"	-32°57' 25"	5.94 m	20.965 AE	3.36"	+ 27.8°	3 %	+ 9.4°
17-02-2010	23h42m46s	- 2°39' 07"	315°18' 36"	-33°21' 42"	5.94 m	20.973 AE	3.36"	+ 26.8°	7 %	+ 6.2°
18-02-2010	23h42m58s	- 2°37' 51"	316°19' 41"	-33°45' 30"	5.94 m	20.981 AE	3.36"	+ 25.9°	13 %	+ 16.5°
19-02-2010	23h43m09s	- 2°36' 35"	317°21' 18"	-34°08' 50"	5.94 m	20.988 AE	3.36"	+ 24.9°	20 %	+ 28.4°
20-02-2010	23h43m21s	- 2°35' 18"	318°23' 27"	-34°31' 40"	5.94 m	20.996 AE	3.36"	+ 24.0°	29 %	+ 40.7°
21-02-2010	23h43m33s	- 2°34' 00"	319°26' 07"	-34°54' 00"	5.94 m	21.003 AE	3.36"	+ 23.0°	38 %	+ 53.4°
22-02-2010	23h43m45s	- 2°32' 42"	320°29' 20"	-35°15' 49"	5.94 m	21.009 AE	3.35"	+ 22.1°	49 %	+ 66.4°
23-02-2010	23h43m57s	- 2°31' 24"	321°33' 04"	-35°37' 07"	5.94 m	21.016 AE	3.35"	+ 21.1°	60 %	+ 79.9°
24-02-2010	23h44m09s	- 2°30' 06"	322°37' 20"	-35°57' 52"	5.94 m	21.022 AE	3.35"	+ 20.1°	70 %	+ 93.8°
25-02-2010	23h44m21s	- 2°28' 47"	323°42' 08"	-36°18' 04"	5.94 m	21.028 AE	3.35"	+ 19.2°	80 %	+ 108.2°
26-02-2010	23h44m33s	- 2°27' 28"	324°47' 27"	-36°37' 43"	5.94 m	21.034 AE	3.35"	+ 18.3°	89 %	+ 123.0°
27-02-2010	23h44m45s	- 2°26' 09"	325°53' 17"	-36°56' 48"	5.94 m	21.039 AE	3.35"	+ 17.3°	95 %	+ 138.0°
28-02-2010	23h44m57s	- 2°24' 49"	326°59' 39"	-37°15' 17"	5.94 m	21.045 AE	3.35"	+ 16.4°	99 %	+ 153.1°
01-03-2010	23h45m09s	- 2°23' 29"	328°06' 31"	-37°33' 11"	5.94 m	21.049 AE	3.35"	+ 15.4°	99 %	+ 167.5°

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	RA	Dek							Phase	Winkel
02-03-2010	23h45m21s	- 2°22' 09"	329°13' 53"	-37°50' 29"	5.94 m	21.054 AE	3.35"	+ 14.5°	97 %	+ 172.7°
03-03-2010	23h45m34s	- 2°20' 48"	330°21' 45"	-38°07' 10"	5.94 m	21.058 AE	3.35"	+ 13.5°	92 %	+ 160.2°
04-03-2010	23h45m46s	- 2°19' 28"	331°30' 06"	-38°23' 13"	5.94 m	21.063 AE	3.35"	+ 12.6°	85 %	+ 146.4°
05-03-2010	23h45m58s	- 2°18' 07"	332°38' 55"	-38°38' 38"	5.95 m	21.066 AE	3.35"	+ 11.6°	76 %	+ 132.8°
06-03-2010	23h46m11s	- 2°16' 46"	333°48' 13"	-38°53' 24"	5.95 m	21.070 AE	3.35"	+ 10.7°	67 %	+ 119.7°
07-03-2010	23h46m23s	- 2°15' 25"	334°57' 57"	-39°07' 31"	5.95 m	21.073 AE	3.34"	+ 9.8°	57 %	+ 107.0°
08-03-2010	23h46m36s	- 2°14' 03"	336°08' 08"	-39°20' 58"	5.95 m	21.076 AE	3.34"	+ 8.8°	47 %	+ 94.7°
09-03-2010	23h46m48s	- 2°12' 42"	337°18' 44"	-39°33' 45"	5.95 m	21.079 AE	3.34"	+ 7.9°	37 %	+ 82.7°
10-03-2010	23h47m01s	- 2°11' 20"	338°29' 45"	-39°45' 50"	5.95 m	21.081 AE	3.34"	+ 6.9°	28 %	+ 70.9°
11-03-2010	23h47m13s	- 2°09' 58"	339°41' 09"	-39°57' 14"	5.95 m	21.084 AE	3.34"	+ 6.0°	20 %	+ 59.2°
12-03-2010	23h47m26s	- 2°08' 36"	340°52' 55"	-40°07' 55"	5.95 m	21.085 AE	3.34"	+ 5.0°	13 %	+ 47.7°
13-03-2010	23h47m38s	- 2°07' 15"	342°05' 03"	-40°17' 54"	5.95 m	21.087 AE	3.34"	+ 4.1°	7 %	+ 36.1°
14-03-2010	23h47m51s	- 2°05' 53"	343°17' 30"	-40°27' 10"	5.95 m	21.088 AE	3.34"	+ 3.2°	3 %	+ 24.6°
15-03-2010	23h48m04s	- 2°04' 31"	344°30' 17"	-40°35' 42"	5.95 m	21.089 AE	3.34"	+ 2.3°	0 %	+ 13.3°
16-03-2010	23h48m16s	- 2°03' 09"	345°43' 20"	-40°43' 30"	5.95 m	21.090 AE	3.34"	+ 1.4°	0 %	+ 4.8°
17-03-2010	23h48m29s	- 2°01' 47"	346°56' 40"	-40°50' 35"	5.95 m	21.091 AE	3.34"	+ 0.8°	1 %	+ 12.4°
18-03-2010	23h48m41s	- 2°00' 25"	348°10' 14"	-40°56' 54"	5.95 m	21.091 AE	3.34"	+ 0.9°	4 %	+ 24.2°
19-03-2010	23h48m54s	- 1°59' 03"	349°24' 01"	-41°02' 29"	5.95 m	21.091 AE	3.34"	+ 1.7°	9 %	+ 36.4°
20-03-2010	23h49m07s	- 1°57' 41"	350°38' 00"	-41°07' 18"	5.95 m	21.091 AE	3.34"	+ 2.6°	16 %	+ 49.0°
21-03-2010	23h49m19s	- 1°56' 19"	351°52' 09"	-41°11' 22"	5.95 m	21.090 AE	3.34"	+ 3.5°	24 %	+ 61.8°
22-03-2010	23h49m32s	- 1°54' 58"	353°06' 26"	-41°14' 40"	5.95 m	21.089 AE	3.34"	+ 4.4°	34 %	+ 74.9°
23-03-2010	23h49m44s	- 1°53' 36"	354°20' 50"	-41°17' 12"	5.95 m	21.088 AE	3.34"	+ 5.3°	44 %	+ 88.3°
24-03-2010	23h49m57s	- 1°52' 15"	355°35' 20"	-41°18' 58"	5.95 m	21.086 AE	3.34"	+ 6.3°	55 %	+ 102.1°
25-03-2010	23h50m09s	- 1°50' 53"	356°49' 52"	-41°19' 58"	5.95 m	21.085 AE	3.34"	+ 7.2°	66 %	+ 116.2°
26-03-2010	23h50m22s	- 1°49' 32"	358°04' 27"	-41°20' 12"	5.95 m	21.083 AE	3.34"	+ 8.1°	77 %	+ 130.6°
27-03-2010	23h50m34s	- 1°48' 11"	359°19' 02"	-41°19' 40"	5.95 m	21.080 AE	3.34"	+ 9.1°	86 %	+ 145.1°
28-03-2010	23h50m47s	- 1°46' 50"	0°33' 35"	-41°18' 22"	5.95 m	21.078 AE	3.34"	+ 10.0°	93 %	+ 159.6°
29-03-2010	23h50m59s	- 1°45' 33"	342°02' 28"	-39°55' 23"	5.95 m	21.075 AE	3.34"	+ 10.9°	97 %	+ 172.2°
30-03-2010	23h51m11s	- 1°44' 13"	343°14' 35"	-40°04' 43"	5.95 m	21.072 AE	3.34"	+ 11.8°	99 %	+ 168.3°
31-03-2010	23h51m24s	- 1°42' 53"	344°27' 01"	-40°13' 19"	5.95 m	21.069 AE	3.35"	+ 12.8°	98 %	+ 154.7°

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	RA	Dek							Phase	Winkel
01-04-2010	23h51m36s	- 1°41' 33"	345°39' 46"	-40°21' 12"	5.95 m	21.065 AE	3.35"	+ 13.7°	95 %	+ 140.8°
02-04-2010	23h51m48s	- 1°40' 13"	346°52' 47"	-40°28' 22"	5.94 m	21.061 AE	3.35"	+ 14.6°	89 %	+ 127.1°
03-04-2010	23h52m01s	- 1°38' 54"	348°06' 03"	-40°34' 47"	5.94 m	21.057 AE	3.35"	+ 15.5°	82 %	+ 113.8°
04-04-2010	23h52m13s	- 1°37' 35"	349°19' 33"	-40°40' 28"	5.94 m	21.052 AE	3.35"	+ 16.5°	73 %	+ 101.0°
05-04-2010	23h52m25s	- 1°36' 16"	350°33' 15"	-40°45' 24"	5.94 m	21.048 AE	3.35"	+ 17.4°	64 %	+ 88.6°
06-04-2010	23h52m37s	- 1°34' 58"	351°47' 09"	-40°49' 35"	5.94 m	21.043 AE	3.35"	+ 18.3°	54 %	+ 76.5°
07-04-2010	23h52m49s	- 1°33' 40"	353°01' 11"	-40°53' 00"	5.94 m	21.038 AE	3.35"	+ 19.3°	45 %	+ 64.7°
08-04-2010	23h53m01s	- 1°32' 22"	354°15' 21"	-40°55' 40"	5.94 m	21.032 AE	3.35"	+ 20.2°	35 %	+ 53.0°
09-04-2010	23h53m13s	- 1°31' 05"	355°29' 38"	-40°57' 34"	5.94 m	21.026 AE	3.35"	+ 21.1°	27 %	+ 41.5°
10-04-2010	23h53m25s	- 1°29' 48"	356°43' 59"	-40°58' 43"	5.94 m	21.020 AE	3.35"	+ 22.0°	19 %	+ 29.9°
11-04-2010	23h53m37s	- 1°28' 32"	357°58' 23"	-40°59' 06"	5.94 m	21.014 AE	3.35"	+ 23.0°	12 %	+ 18.4°
12-04-2010	23h53m49s	- 1°27' 16"	359°12' 48"	-40°58' 42"	5.94 m	21.008 AE	3.36"	+ 23.9°	6 %	+ 7.7°
13-04-2010	23h54m01s	- 1°26' 00"	0°27' 12"	-40°57' 33"	5.94 m	21.001 AE	3.36"	+ 24.8°	2 %	+ 7.7°
14-04-2010	23h54m12s	- 1°24' 45"	1°41' 35"	-40°55' 37"	5.94 m	20.994 AE	3.36"	+ 25.8°	0 %	+ 18.9°
15-04-2010	23h54m24s	- 1°23' 30"	2°55' 54"	-40°52' 56"	5.94 m	20.987 AE	3.36"	+ 26.7°	0 %	+ 31.2°
16-04-2010	23h54m36s	- 1°22' 16"	4°10' 07"	-40°49' 29"	5.94 m	20.979 AE	3.36"	+ 27.6°	2 %	+ 43.8°
17-04-2010	23h54m47s	- 1°21' 02"	5°24' 14"	-40°45' 16"	5.94 m	20.971 AE	3.36"	+ 28.5°	6 %	+ 56.7°
18-04-2010	23h54m58s	- 1°19' 49"	6°38' 12"	-40°40' 18"	5.94 m	20.963 AE	3.36"	+ 29.5°	12 %	+ 69.9°
19-04-2010	23h55m10s	- 1°18' 36"	7°51' 59"	-40°34' 34"	5.94 m	20.955 AE	3.36"	+ 30.4°	20 %	+ 83.3°
20-04-2010	23h55m21s	- 1°17' 24"	9°05' 36"	-40°28' 05"	5.94 m	20.947 AE	3.36"	+ 31.3°	29 %	+ 96.9°
21-04-2010	23h55m32s	- 1°16' 13"	10°18' 59"	-40°20' 51"	5.93 m	20.938 AE	3.37"	+ 32.2°	40 %	+ 110.7°
22-04-2010	23h55m43s	- 1°15' 02"	11°32' 08"	-40°12' 53"	5.93 m	20.929 AE	3.37"	+ 33.2°	51 %	+ 124.7°
23-04-2010	23h55m54s	- 1°13' 52"	12°45' 01"	-40°04' 10"	5.93 m	20.920 AE	3.37"	+ 34.1°	63 %	+ 138.8°
24-04-2010	23h56m05s	- 1°12' 42"	13°57' 36"	-39°54' 44"	5.93 m	20.910 AE	3.37"	+ 35.0°	73 %	+ 152.9°
25-04-2010	23h56m16s	- 1°11' 33"	15°09' 53"	-39°44' 33"	5.93 m	20.901 AE	3.37"	+ 35.9°	83 %	+ 166.6°
26-04-2010	23h56m27s	- 1°10' 24"	16°21' 51"	-39°33' 40"	5.93 m	20.891 AE	3.37"	+ 36.9°	91 %	+ 173.1°
27-04-2010	23h56m37s	- 1°09' 17"	17°33' 27"	-39°22' 04"	5.93 m	20.881 AE	3.38"	+ 37.8°	96 %	+ 161.8°
28-04-2010	23h56m48s	- 1°08' 09"	18°44' 41"	-39°09' 46"	5.93 m	20.871 AE	3.38"	+ 38.7°	99 %	+ 148.1°
29-04-2010	23h56m58s	- 1°07' 03"	19°55' 32"	-38°56' 47"	5.93 m	20.860 AE	3.38"	+ 39.6°	99 %	+ 134.3°
30-04-2010	23h57m09s	- 1°05' 57"	21°05' 59"	-38°43' 06"	5.93 m	20.850 AE	3.38"	+ 40.6°	97 %	+ 120.7°

Sichtbarkeit

Datum/Standort

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

Objekt

Planet:
 Uranus

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-05-2010	23h57m19s	- 1°04' 52"	22°16' 01"	-38°28' 44"	5.93 m	20.839 AE	3.38"	+ 41.5°	93 %	+ 107.6°
02-05-2010	23h57m29s	- 1°03' 47"	23°25' 37"	-38°13' 42"	5.92 m	20.828 AE	3.38"	+ 42.4°	87 %	+ 94.7°
03-05-2010	23h57m39s	- 1°02' 44"	24°34' 46"	-37°58' 01"	5.92 m	20.816 AE	3.39"	+ 43.3°	79 %	+ 82.2°
04-05-2010	23h57m49s	- 1°01' 41"	25°43' 27"	-37°41' 41"	5.92 m	20.805 AE	3.39"	+ 44.3°	71 %	+ 70.1°
05-05-2010	23h57m59s	- 1°00' 39"	26°51' 41"	-37°24' 42"	5.92 m	20.793 AE	3.39"	+ 45.2°	62 %	+ 58.2°
06-05-2010	23h58m08s	- 0°59' 37"	27°59' 26"	-37°07' 06"	5.92 m	20.781 AE	3.39"	+ 46.1°	52 %	+ 46.4°
07-05-2010	23h58m18s	- 0°58' 36"	29°06' 42"	-36°48' 52"	5.92 m	20.769 AE	3.39"	+ 47.0°	43 %	+ 34.8°
08-05-2010	23h58m27s	- 0°57' 37"	30°13' 28"	-36°30' 02"	5.92 m	20.757 AE	3.40"	+ 48.0°	33 %	+ 23.3°
09-05-2010	23h58m37s	- 0°56' 37"	31°19' 44"	-36°10' 37"	5.92 m	20.744 AE	3.40"	+ 48.9°	25 %	+ 12.0°
10-05-2010	23h58m46s	- 0°55' 39"	32°25' 30"	-35°50' 35"	5.91 m	20.732 AE	3.40"	+ 49.8°	17 %	+ 5.0°
11-05-2010	23h58m55s	- 0°54' 42"	33°30' 45"	-35°30' 00"	5.91 m	20.719 AE	3.40"	+ 50.7°	10 %	+ 14.0°
12-05-2010	23h59m04s	- 0°53' 45"	34°35' 29"	-35°08' 50"	5.91 m	20.706 AE	3.40"	+ 51.7°	5 %	+ 26.0°
13-05-2010	23h59m13s	- 0°52' 49"	35°39' 42"	-34°47' 08"	5.91 m	20.693 AE	3.41"	+ 52.6°	1 %	+ 38.6°
14-05-2010	23h59m21s	- 0°51' 54"	36°43' 24"	-34°24' 52"	5.91 m	20.679 AE	3.41"	+ 53.5°	0 %	+ 51.6°
15-05-2010	23h59m30s	- 0°51' 00"	37°46' 35"	-34°02' 05"	5.91 m	20.666 AE	3.41"	+ 54.4°	0 %	+ 64.9°
16-05-2010	23h59m38s	- 0°50' 07"	38°49' 15"	-33°38' 47"	5.91 m	20.652 AE	3.41"	+ 55.4°	4 %	+ 78.5°
17-05-2010	23h59m47s	- 0°49' 15"	39°51' 24"	-33°14' 57"	5.91 m	20.638 AE	3.42"	+ 56.3°	9 %	+ 92.3°
18-05-2010	23h59m55s	- 0°48' 24"	40°53' 02"	-32°50' 39"	5.90 m	20.624 AE	3.42"	+ 57.2°	17 %	+ 106.3°
19-05-2010	0h00m03s	- 0°47' 33"	41°54' 09"	-32°25' 50"	5.90 m	20.610 AE	3.42"	+ 58.1°	27 %	+ 120.3°
20-05-2010	0h00m11s	- 0°46' 44"	42°54' 45"	-32°00' 33"	5.90 m	20.596 AE	3.42"	+ 59.1°	37 %	+ 134.3°
21-05-2010	0h00m19s	- 0°45' 55"	43°54' 51"	-31°34' 49"	5.90 m	20.581 AE	3.42"	+ 60.0°	49 %	+ 148.3°
22-05-2010	0h00m26s	- 0°45' 08"	44°54' 27"	-31°08' 36"	5.90 m	20.567 AE	3.43"	+ 60.9°	60 %	+ 161.9°
23-05-2010	0h00m34s	- 0°44' 21"	45°53' 32"	-30°41' 58"	5.90 m	20.552 AE	3.43"	+ 61.9°	71 %	+ 172.8°
24-05-2010	0h00m41s	- 0°43' 35"	46°52' 09"	-30°14' 53"	5.90 m	20.537 AE	3.43"	+ 62.8°	81 %	+ 166.7°
25-05-2010	0h00m48s	- 0°42' 51"	47°50' 16"	-29°47' 23"	5.89 m	20.523 AE	3.43"	+ 63.7°	89 %	+ 153.7°
26-05-2010	0h00m55s	- 0°42' 07"	48°47' 54"	-29°19' 28"	5.89 m	20.507 AE	3.44"	+ 64.7°	94 %	+ 140.2°
27-05-2010	0h01m02s	- 0°41' 24"	49°45' 03"	-28°51' 09"	5.89 m	20.492 AE	3.44"	+ 65.6°	98 %	+ 126.8°
28-05-2010	0h01m09s	- 0°40' 43"	50°41' 45"	-28°22' 26"	5.89 m	20.477 AE	3.44"	+ 66.5°	99 %	+ 113.6°
29-05-2010	0h01m15s	- 0°40' 02"	51°37' 59"	-27°53' 20"	5.89 m	20.462 AE	3.44"	+ 67.4°	98 %	+ 100.6°
30-05-2010	0h01m22s	- 0°39' 22"	52°33' 46"	-27°23' 53"	5.89 m	20.446 AE	3.45"	+ 68.4°	95 %	+ 87.9°

Sichtbarkeit

Datum/Standort

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

Objekt

Planet:
 Uranus

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
31-05-2010	0h01m28s	- 0°38' 43"	53°29' 06"	-26°54' 03"	5.88 m	20.431 AE	3.45"	+ 69.3°	91 %	+ 75.5°
01-06-2010	0h01m34s	- 0°38' 06"	54°24' 01"	-26°23' 52"	5.88 m	20.415 AE	3.45"	+ 70.2°	84 %	+ 63.3°
02-06-2010	0h01m40s	- 0°37' 29"	55°18' 30"	-25°53' 21"	5.88 m	20.399 AE	3.46"	+ 71.2°	77 %	+ 51.4°
03-06-2010	0h01m46s	- 0°36' 53"	56°12' 33"	-25°22' 29"	5.88 m	20.383 AE	3.46"	+ 72.1°	68 %	+ 39.6°
04-06-2010	0h01m52s	- 0°36' 19"	57°06' 13"	-24°51' 19"	5.88 m	20.367 AE	3.46"	+ 73.0°	59 %	+ 28.0°
05-06-2010	0h01m57s	- 0°35' 45"	57°59' 28"	-24°19' 49"	5.88 m	20.351 AE	3.46"	+ 74.0°	50 %	+ 16.5°
06-06-2010	0h02m02s	- 0°35' 13"	58°52' 21"	-23°48' 01"	5.87 m	20.335 AE	3.47"	+ 74.9°	40 %	+ 6.3°
07-06-2010	0h02m08s	- 0°34' 42"	59°44' 50"	-23°15' 55"	5.87 m	20.319 AE	3.47"	+ 75.8°	31 %	+ 9.5°
08-06-2010	0h02m13s	- 0°34' 11"	60°36' 58"	-22°43' 32"	5.87 m	20.303 AE	3.47"	+ 76.8°	22 %	+ 21.0°
09-06-2010	0h02m17s	- 0°33' 42"	61°28' 44"	-22°10' 52"	5.87 m	20.286 AE	3.47"	+ 77.7°	14 %	+ 33.3°
10-06-2010	0h02m22s	- 0°33' 14"	62°20' 10"	-21°37' 55"	5.87 m	20.270 AE	3.48"	+ 78.6°	7 %	+ 46.2°
11-06-2010	0h02m27s	- 0°32' 47"	63°11' 15"	-21°04' 43"	5.87 m	20.253 AE	3.48"	+ 79.6°	3 %	+ 59.4°
12-06-2010	0h02m31s	- 0°32' 21"	64°02' 00"	-20°31' 16"	5.86 m	20.237 AE	3.48"	+ 80.5°	0 %	+ 73.1°
13-06-2010	0h02m35s	- 0°31' 57"	64°52' 27"	-19°57' 34"	5.86 m	20.220 AE	3.49"	+ 81.4°	0 %	+ 87.0°
14-06-2010	0h02m39s	- 0°31' 33"	65°42' 35"	-19°23' 38"	5.86 m	20.204 AE	3.49"	+ 82.4°	2 %	+ 101.2°
15-06-2010	0h02m43s	- 0°31' 11"	66°32' 26"	-18°49' 28"	5.86 m	20.187 AE	3.49"	+ 83.3°	7 %	+ 115.6°
16-06-2010	0h02m46s	- 0°30' 49"	67°22' 00"	-18°15' 04"	5.86 m	20.170 AE	3.49"	+ 84.3°	15 %	+ 130.0°
17-06-2010	0h02m50s	- 0°30' 29"	68°11' 17"	-17°40' 28"	5.86 m	20.154 AE	3.50"	+ 85.2°	24 %	+ 144.2°
18-06-2010	0h02m53s	- 0°30' 10"	69°00' 18"	-17°05' 39"	5.85 m	20.137 AE	3.50"	+ 86.1°	35 %	+ 158.1°
19-06-2010	0h02m56s	- 0°29' 52"	69°49' 05"	-16°30' 39"	5.85 m	20.120 AE	3.50"	+ 87.1°	47 %	+ 170.5°
20-06-2010	0h02m59s	- 0°29' 35"	70°37' 37"	-15°55' 26"	5.85 m	20.104 AE	3.51"	+ 88.0°	58 %	+ 169.9°
21-06-2010	0h03m02s	- 0°29' 20"	71°25' 55"	-15°20' 03"	5.85 m	20.087 AE	3.51"	+ 89.0°	69 %	+ 157.7°
22-06-2010	0h03m05s	- 0°29' 05"	72°14' 00"	-14°44' 29"	5.85 m	20.070 AE	3.51"	+ 89.9°	78 %	+ 144.5°
23-06-2010	0h03m07s	- 0°28' 52"	73°01' 53"	-14°08' 45"	5.84 m	20.053 AE	3.51"	+ 90.8°	86 %	+ 131.3°
24-06-2010	0h03m09s	- 0°28' 40"	73°49' 34"	-13°32' 52"	5.84 m	20.037 AE	3.52"	+ 91.8°	93 %	+ 118.2°
25-06-2010	0h03m11s	- 0°28' 29"	74°37' 03"	-12°56' 49"	5.84 m	20.020 AE	3.52"	+ 92.7°	97 %	+ 105.3°
26-06-2010	0h03m13s	- 0°28' 19"	75°24' 22"	-12°20' 37"	5.84 m	20.003 AE	3.52"	+ 93.7°	99 %	+ 92.6°
27-06-2010	0h03m15s	- 0°28' 10"	76°11' 31"	-11°44' 16"	5.84 m	19.986 AE	3.53"	+ 94.6°	99 %	+ 80.1°
28-06-2010	0h03m16s	- 0°28' 02"	76°58' 31"	-11°07' 48"	5.84 m	19.970 AE	3.53"	+ 95.6°	97 %	+ 67.8°
29-06-2010	0h03m18s	- 0°27' 56"	77°45' 22"	-10°31' 12"	5.83 m	19.953 AE	3.53"	+ 96.5°	94 %	+ 55.8°

Sichtbarkeit

Datum/Standort

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

Objekt

Planet:
 Uranus

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
30-06-2010	0h03m19s	- 0°27' 50"	78°32' 05"	-9°54' 29"	5.83 m	19.936 AE	3.54"	+ 97.5°	89 %	+ 43.8°
01-07-2010	0h03m20s	- 0°27' 46"	79°18' 41"	-9°17' 38"	5.83 m	19.920 AE	3.54"	+ 98.4°	82 %	+ 32.1°
02-07-2010	0h03m21s	- 0°27' 43"	80°05' 10"	-8°40' 42"	5.83 m	19.903 AE	3.54"	+ 99.4°	74 %	+ 20.5°
03-07-2010	0h03m21s	- 0°27' 41"	80°51' 33"	-8°03' 39"	5.83 m	19.887 AE	3.54"	+ 100.3°	66 %	+ 9.5°
04-07-2010	0h03m22s	- 0°27' 41"	81°37' 51"	-7°26' 31"	5.82 m	19.870 AE	3.55"	+ 101.3°	56 %	+ 6.4°
05-07-2010	0h03m22s	- 0°27' 41"	82°24' 04"	-6°49' 18"	5.82 m	19.854 AE	3.55"	+ 102.2°	47 %	+ 16.7°
06-07-2010	0h03m22s	- 0°27' 43"	83°10' 13"	-6°12' 00"	5.82 m	19.838 AE	3.55"	+ 103.2°	37 %	+ 28.7°
07-07-2010	0h03m22s	- 0°27' 45"	83°56' 19"	-5°34' 37"	5.82 m	19.821 AE	3.56"	+ 104.1°	27 %	+ 41.2°
08-07-2010	0h03m22s	- 0°27' 49"	84°42' 22"	-4°57' 11"	5.82 m	19.805 AE	3.56"	+ 105.1°	18 %	+ 54.1°
09-07-2010	0h03m22s	- 0°27' 54"	85°28' 23"	-4°19' 41"	5.82 m	19.789 AE	3.56"	+ 106.0°	11 %	+ 67.5°
10-07-2010	0h03m21s	- 0°28' 01"	86°14' 22"	-3°42' 07"	5.81 m	19.773 AE	3.56"	+ 107.0°	4 %	+ 81.3°
11-07-2010	0h03m20s	- 0°28' 08"	87°00' 21"	-3°04' 31"	5.81 m	19.757 AE	3.57"	+ 108.0°	1 %	+ 95.5°
12-07-2010	0h03m19s	- 0°28' 16"	87°46' 19"	-2°26' 53"	5.81 m	19.741 AE	3.57"	+ 108.9°	0 %	+ 110.1°
13-07-2010	0h03m18s	- 0°28' 26"	88°32' 18"	-1°49' 12"	5.81 m	19.725 AE	3.57"	+ 109.9°	1 %	+ 124.8°
14-07-2010	0h03m17s	- 0°28' 37"	89°18' 18"	-1°11' 30"	5.81 m	19.710 AE	3.58"	+ 110.8°	6 %	+ 139.5°
15-07-2010	0h03m15s	- 0°28' 49"	90°04' 20"	-0°33' 47"	5.80 m	19.694 AE	3.58"	+ 111.8°	13 %	+ 153.9°
16-07-2010	0h03m14s	- 0°29' 02"	90°50' 24"	+0°03' 56"	5.80 m	19.679 AE	3.58"	+ 112.8°	22 %	+ 167.4°
17-07-2010	0h03m12s	- 0°29' 16"	91°36' 32"	+0°41' 40"	5.80 m	19.663 AE	3.58"	+ 113.7°	33 %	+ 172.1°
18-07-2010	0h03m10s	- 0°29' 31"	92°22' 43"	+1°19' 25"	5.80 m	19.648 AE	3.59"	+ 114.7°	44 %	+ 160.9°
19-07-2010	0h03m08s	- 0°29' 47"	93°08' 59"	+1°57' 09"	5.80 m	19.633 AE	3.59"	+ 115.7°	55 %	+ 147.7°
20-07-2010	0h03m05s	- 0°30' 05"	93°55' 19"	+2°34' 51"	5.80 m	19.618 AE	3.59"	+ 116.6°	66 %	+ 134.5°
21-07-2010	0h03m03s	- 0°30' 23"	94°41' 46"	+3°12' 33"	5.79 m	19.603 AE	3.60"	+ 117.6°	75 %	+ 121.5°
22-07-2010	0h03m00s	- 0°30' 43"	95°28' 18"	+3°50' 13"	5.79 m	19.588 AE	3.60"	+ 118.5°	84 %	+ 108.7°
23-07-2010	0h02m57s	- 0°31' 03"	96°14' 58"	+4°27' 50"	5.79 m	19.574 AE	3.60"	+ 119.5°	90 %	+ 96.0°
24-07-2010	0h02m54s	- 0°31' 25"	97°01' 46"	+5°05' 25"	5.79 m	19.559 AE	3.60"	+ 120.5°	95 %	+ 83.6°
25-07-2010	0h02m51s	- 0°31' 48"	97°48' 42"	+5°42' 57"	5.79 m	19.545 AE	3.61"	+ 121.5°	98 %	+ 71.3°
26-07-2010	0h02m48s	- 0°32' 11"	98°35' 47"	+6°20' 25"	5.79 m	19.531 AE	3.61"	+ 122.4°	99 %	+ 59.2°
27-07-2010	0h02m44s	- 0°32' 36"	99°23' 02"	+6°57' 49"	5.78 m	19.517 AE	3.61"	+ 123.4°	99 %	+ 47.2°
28-07-2010	0h02m41s	- 0°33' 02"	100°10' 27"	+7°35' 09"	5.78 m	19.503 AE	3.61"	+ 124.4°	96 %	+ 35.4°
29-07-2010	0h02m37s	- 0°33' 29"	100°58' 04"	+8°12' 24"	5.78 m	19.489 AE	3.62"	+ 125.3°	92 %	+ 23.7°

Sichtbarkeit

Datum/Standort

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

Objekt

Planet:
 Uranus

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
30-07-2010	0h02m33s	- 0°33' 56"	101°45' 52"	+8°49' 34"	5.78 m	19.475 AE	3.62"	+ 126.3°	87 %	+ 12.3°
31-07-2010	0h02m29s	- 0°34' 25"	102°33' 53"	+9°26' 37"	5.78 m	19.462 AE	3.62"	+ 127.3°	80 %	+ 5.1°
01-08-2010	0h02m24s	- 0°34' 55"	103°22' 07"	+10°03' 34"	5.78 m	19.449 AE	3.62"	+ 128.3°	71 %	+ 13.6°
02-08-2010	0h02m20s	- 0°35' 26"	104°10' 34"	+10°40' 25"	5.77 m	19.436 AE	3.63"	+ 129.2°	62 %	+ 25.2°
03-08-2010	0h02m15s	- 0°35' 58"	104°59' 17"	+11°17' 08"	5.77 m	19.423 AE	3.63"	+ 130.2°	53 %	+ 37.4°
04-08-2010	0h02m11s	- 0°36' 30"	105°48' 14"	+11°53' 43"	5.77 m	19.410 AE	3.63"	+ 131.2°	42 %	+ 50.0°
05-08-2010	0h02m06s	- 0°37' 04"	106°37' 28"	+12°30' 09"	5.77 m	19.398 AE	3.63"	+ 132.2°	32 %	+ 62.9°
06-08-2010	0h02m01s	- 0°37' 38"	107°26' 58"	+13°06' 27"	5.77 m	19.386 AE	3.64"	+ 133.2°	22 %	+ 76.3°
07-08-2010	0h01m56s	- 0°38' 14"	108°16' 46"	+13°42' 35"	5.77 m	19.374 AE	3.64"	+ 134.1°	14 %	+ 90.2°
08-08-2010	0h01m50s	- 0°38' 50"	109°06' 52"	+14°18' 34"	5.77 m	19.362 AE	3.64"	+ 135.1°	7 %	+ 104.4°
09-08-2010	0h01m45s	- 0°39' 27"	109°57' 17"	+14°54' 21"	5.76 m	19.350 AE	3.64"	+ 136.1°	2 %	+ 119.1°
10-08-2010	0h01m39s	- 0°40' 05"	110°48' 01"	+15°29' 58"	5.76 m	19.339 AE	3.64"	+ 137.1°	0 %	+ 133.9°
11-08-2010	0h01m33s	- 0°40' 44"	111°39' 05"	+16°05' 22"	5.76 m	19.327 AE	3.65"	+ 138.1°	1 %	+ 148.8°
12-08-2010	0h01m28s	- 0°41' 24"	112°30' 30"	+16°40' 35"	5.76 m	19.316 AE	3.65"	+ 139.1°	5 %	+ 163.2°
13-08-2010	0h01m22s	- 0°42' 05"	113°22' 17"	+17°15' 35"	5.76 m	19.306 AE	3.65"	+ 140.1°	11 %	+ 173.2°
14-08-2010	0h01m15s	- 0°42' 46"	114°14' 26"	+17°50' 21"	5.76 m	19.295 AE	3.65"	+ 141.0°	20 %	+ 164.4°
15-08-2010	0h01m09s	- 0°43' 28"	115°06' 58"	+18°24' 52"	5.76 m	19.285 AE	3.65"	+ 142.0°	30 %	+ 151.0°
16-08-2010	0h01m03s	- 0°44' 11"	115°59' 53"	+18°59' 10"	5.76 m	19.275 AE	3.66"	+ 143.0°	41 %	+ 137.5°
17-08-2010	0h00m56s	- 0°44' 55"	116°53' 13"	+19°33' 11"	5.75 m	19.265 AE	3.66"	+ 144.0°	51 %	+ 124.2°
18-08-2010	0h00m50s	- 0°45' 40"	117°46' 58"	+20°06' 57"	5.75 m	19.255 AE	3.66"	+ 145.0°	62 %	+ 111.3°
19-08-2010	0h00m43s	- 0°46' 25"	118°41' 08"	+20°40' 26"	5.75 m	19.246 AE	3.66"	+ 146.0°	71 %	+ 98.6°
20-08-2010	0h00m36s	- 0°47' 11"	119°35' 45"	+21°13' 37"	5.75 m	19.237 AE	3.66"	+ 147.0°	80 %	+ 86.2°
21-08-2010	0h00m29s	- 0°47' 57"	120°30' 49"	+21°46' 31"	5.75 m	19.228 AE	3.67"	+ 148.0°	87 %	+ 73.9°
22-08-2010	0h00m22s	- 0°48' 44"	121°26' 20"	+22°19' 05"	5.75 m	19.219 AE	3.67"	+ 149.0°	93 %	+ 61.8°
23-08-2010	0h00m15s	- 0°49' 32"	122°22' 20"	+22°51' 20"	5.75 m	19.211 AE	3.67"	+ 150.0°	97 %	+ 49.8°
24-08-2010	0h00m08s	- 0°50' 21"	123°18' 48"	+23°23' 15"	5.75 m	19.203 AE	3.67"	+ 151.0°	99 %	+ 37.9°
25-08-2010	0h00m00s	- 0°51' 10"	124°15' 46"	+23°54' 48"	5.74 m	19.195 AE	3.67"	+ 151.9°	99 %	+ 26.1°
26-08-2010	23h59m53s	- 0°51' 59"	125°13' 13"	+24°26' 00"	5.74 m	19.187 AE	3.67"	+ 152.9°	98 %	+ 14.6°
27-08-2010	23h59m45s	- 0°52' 50"	126°11' 12"	+24°56' 50"	5.74 m	19.180 AE	3.67"	+ 153.9°	95 %	+ 5.3°
28-08-2010	23h59m38s	- 0°53' 40"	127°09' 41"	+25°27' 16"	5.74 m	19.173 AE	3.68"	+ 154.9°	90 %	+ 11.4°

Sichtbarkeit

Datum/Standort

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

Objekt

Planet:
 Uranus

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
29-08-2010	23h59m30s	- 0°54' 32"	128°08' 42"	+25°57' 18"	5.74 m	19.166 AE	3.68"	+ 155.9°	84 %	+ 22.9°
30-08-2010	23h59m22s	- 0°55' 23"	129°08' 15"	+26°26' 55"	5.74 m	19.160 AE	3.68"	+ 156.9°	77 %	+ 34.9°
31-08-2010	23h59m14s	- 0°56' 16"	130°08' 21"	+26°56' 07"	5.74 m	19.153 AE	3.68"	+ 157.9°	68 %	+ 47.2°
01-09-2010	23h59m06s	- 0°57' 09"	131°09' 00"	+27°24' 52"	5.74 m	19.147 AE	3.68"	+ 158.9°	58 %	+ 59.9°
02-09-2010	23h58m58s	- 0°58' 02"	132°10' 12"	+27°53' 10"	5.74 m	19.142 AE	3.68"	+ 160.0°	48 %	+ 72.8°
03-09-2010	23h58m50s	- 0°58' 55"	133°11' 58"	+28°21' 00"	5.74 m	19.136 AE	3.68"	+ 161.0°	37 %	+ 86.1°
04-09-2010	23h58m42s	- 0°59' 50"	134°14' 18"	+28°48' 21"	5.74 m	19.131 AE	3.68"	+ 162.0°	27 %	+ 99.9°
05-09-2010	23h58m33s	- 1°00' 44"	135°17' 12"	+29°15' 12"	5.74 m	19.126 AE	3.69"	+ 163.0°	17 %	+ 114.0°
06-09-2010	23h58m25s	- 1°01' 39"	136°20' 41"	+29°41' 32"	5.74 m	19.122 AE	3.69"	+ 164.0°	9 %	+ 128.5°
07-09-2010	23h58m17s	- 1°02' 34"	137°24' 44"	+30°07' 21"	5.73 m	19.117 AE	3.69"	+ 165.0°	3 %	+ 143.3°
08-09-2010	23h58m08s	- 1°03' 29"	138°29' 23"	+30°32' 37"	5.73 m	19.113 AE	3.69"	+ 166.0°	0 %	+ 157.9°
09-09-2010	23h58m00s	- 1°04' 25"	139°34' 36"	+30°57' 20"	5.73 m	19.110 AE	3.69"	+ 167.0°	0 %	+ 171.2°
10-09-2010	23h57m51s	- 1°05' 21"	140°40' 24"	+31°21' 29"	5.73 m	19.106 AE	3.69"	+ 168.0°	3 %	+ 168.8°
11-09-2010	23h57m43s	- 1°06' 17"	141°46' 47"	+31°45' 03"	5.73 m	19.103 AE	3.69"	+ 169.0°	9 %	+ 155.3°
12-09-2010	23h57m34s	- 1°07' 14"	142°53' 45"	+32°08' 01"	5.73 m	19.100 AE	3.69"	+ 170.0°	17 %	+ 141.3°
13-09-2010	23h57m25s	- 1°08' 11"	144°01' 18"	+32°30' 23"	5.73 m	19.098 AE	3.69"	+ 171.1°	26 %	+ 127.6°
14-09-2010	23h57m16s	- 1°09' 07"	145°09' 25"	+32°52' 07"	5.73 m	19.095 AE	3.69"	+ 172.1°	36 %	+ 114.2°
15-09-2010	23h57m08s	- 1°10' 04"	146°18' 06"	+33°13' 12"	5.73 m	19.093 AE	3.69"	+ 173.1°	46 %	+ 101.2°
16-09-2010	23h56m59s	- 1°11' 01"	147°27' 21"	+33°33' 38"	5.73 m	19.092 AE	3.69"	+ 174.1°	56 %	+ 88.5°
17-09-2010	23h56m50s	- 1°11' 59"	148°37' 10"	+33°53' 24"	5.73 m	19.091 AE	3.69"	+ 175.1°	66 %	+ 76.2°
18-09-2010	23h56m41s	- 1°12' 56"	149°47' 30"	+34°12' 29"	5.73 m	19.089 AE	3.69"	+ 176.1°	75 %	+ 64.0°
19-09-2010	23h56m33s	- 1°13' 53"	150°58' 24"	+34°30' 53"	5.73 m	19.089 AE	3.69"	+ 177.1°	83 %	+ 52.0°
20-09-2010	23h56m24s	- 1°14' 50"	152°09' 48"	+34°48' 33"	5.73 m	19.088 AE	3.69"	+ 178.0°	89 %	+ 40.2°
21-09-2010	23h56m15s	- 1°15' 48"	153°21' 43"	+35°05' 31"	5.73 m	19.088 AE	3.69"	+ 178.9°	94 %	+ 28.4°
22-09-2010	23h56m06s	- 1°16' 45"	154°34' 09"	+35°21' 44"	5.73 m	19.088 AE	3.69"	+ 179.2°	97 %	+ 16.8°
23-09-2010	23h55m57s	- 1°17' 42"	155°47' 03"	+35°37' 12"	5.73 m	19.089 AE	3.69"	+ 178.5°	99 %	+ 6.4°
24-09-2010	23h55m48s	- 1°18' 39"	157°00' 25"	+35°51' 55"	5.73 m	19.090 AE	3.69"	+ 177.6°	99 %	+ 9.5°
25-09-2010	23h55m40s	- 1°19' 36"	158°14' 14"	+36°05' 51"	5.73 m	19.091 AE	3.69"	+ 176.6°	97 %	+ 20.9°
26-09-2010	23h55m31s	- 1°20' 33"	159°28' 28"	+36°19' 01"	5.73 m	19.092 AE	3.69"	+ 175.6°	93 %	+ 32.9°
27-09-2010	23h55m22s	- 1°21' 30"	160°43' 07"	+36°31' 23"	5.73 m	19.094 AE	3.69"	+ 174.6°	88 %	+ 45.3°

Sichtbarkeit

Datum/Standort

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

Objekt

Planet:
 Uranus

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
28-09-2010	23h55m13s	- 1°22' 27"	161°58' 09"	+36°42' 57"	5.73 m	19.096 AE	3.69"	+ 173.6°	81 %	+ 57.8°
29-09-2010	23h55m04s	- 1°23' 23"	163°13' 33"	+36°53' 42"	5.73 m	19.098 AE	3.69"	+ 172.6°	72 %	+ 70.6°
30-09-2010	23h54m56s	- 1°24' 20"	164°29' 18"	+37°03' 37"	5.73 m	19.101 AE	3.69"	+ 171.6°	63 %	+ 83.6°
01-10-2010	23h54m47s	- 1°25' 16"	165°45' 21"	+37°12' 43"	5.73 m	19.103 AE	3.69"	+ 170.6°	52 %	+ 97.0°
02-10-2010	23h54m38s	- 1°26' 11"	167°01' 41"	+37°20' 59"	5.73 m	19.107 AE	3.69"	+ 169.5°	41 %	+ 110.6°
03-10-2010	23h54m30s	- 1°27' 07"	168°18' 16"	+37°28' 24"	5.73 m	19.110 AE	3.69"	+ 168.5°	30 %	+ 124.5°
04-10-2010	23h54m21s	- 1°28' 02"	169°35' 06"	+37°34' 58"	5.73 m	19.114 AE	3.69"	+ 167.5°	20 %	+ 138.7°
05-10-2010	23h54m12s	- 1°28' 57"	170°52' 07"	+37°40' 41"	5.73 m	19.118 AE	3.69"	+ 166.5°	12 %	+ 153.1°
06-10-2010	23h54m04s	- 1°29' 51"	172°09' 19"	+37°45' 32"	5.73 m	19.122 AE	3.69"	+ 165.4°	5 %	+ 167.0°
07-10-2010	23h53m55s	- 1°30' 46"	173°26' 38"	+37°49' 31"	5.74 m	19.127 AE	3.69"	+ 164.4°	1 %	+ 172.6°
08-10-2010	23h53m47s	- 1°31' 39"	174°44' 05"	+37°52' 38"	5.74 m	19.132 AE	3.68"	+ 163.4°	0 %	+ 160.4°
09-10-2010	23h53m39s	- 1°32' 32"	176°01' 36"	+37°54' 53"	5.74 m	19.137 AE	3.68"	+ 162.4°	2 %	+ 146.2°
10-10-2010	23h53m30s	- 1°33' 25"	177°19' 09"	+37°56' 16"	5.74 m	19.143 AE	3.68"	+ 161.3°	6 %	+ 132.1°
11-10-2010	23h53m22s	- 1°34' 18"	178°36' 44"	+37°56' 47"	5.74 m	19.149 AE	3.68"	+ 160.3°	13 %	+ 118.2°
12-10-2010	23h53m14s	- 1°35' 09"	179°54' 17"	+37°56' 25"	5.74 m	19.155 AE	3.68"	+ 159.3°	21 %	+ 104.8°
13-10-2010	23h53m06s	- 1°36' 01"	181°11' 47"	+37°55' 12"	5.74 m	19.161 AE	3.68"	+ 158.3°	30 %	+ 91.7°
14-10-2010	23h52m58s	- 1°36' 51"	182°29' 12"	+37°53' 06"	5.74 m	19.168 AE	3.68"	+ 157.3°	40 %	+ 79.0°
15-10-2010	23h52m50s	- 1°37' 42"	183°46' 30"	+37°50' 08"	5.74 m	19.175 AE	3.68"	+ 156.2°	50 %	+ 66.7°
16-10-2010	23h52m42s	- 1°38' 31"	185°03' 39"	+37°46' 19"	5.74 m	19.182 AE	3.67"	+ 155.2°	59 %	+ 54.5°
17-10-2010	23h52m34s	- 1°39' 20"	186°20' 37"	+37°41' 38"	5.74 m	19.190 AE	3.67"	+ 154.2°	69 %	+ 42.6°
18-10-2010	23h52m27s	- 1°40' 09"	187°37' 23"	+37°36' 07"	5.74 m	19.197 AE	3.67"	+ 153.2°	77 %	+ 30.8°
19-10-2010	23h52m19s	- 1°40' 56"	188°53' 55"	+37°29' 44"	5.75 m	19.205 AE	3.67"	+ 152.1°	84 %	+ 19.2°
20-10-2010	23h52m12s	- 1°41' 43"	190°10' 11"	+37°22' 32"	5.75 m	19.214 AE	3.67"	+ 151.1°	90 %	+ 8.3°
21-10-2010	23h52m04s	- 1°42' 30"	191°26' 09"	+37°14' 29"	5.75 m	19.222 AE	3.67"	+ 150.1°	95 %	+ 7.6°
22-10-2010	23h51m57s	- 1°43' 15"	192°41' 48"	+37°05' 38"	5.75 m	19.231 AE	3.67"	+ 149.1°	98 %	+ 18.5°
23-10-2010	23h51m50s	- 1°44' 00"	193°57' 06"	+36°55' 57"	5.75 m	19.240 AE	3.66"	+ 148.0°	99 %	+ 30.6°
24-10-2010	23h51m43s	- 1°44' 44"	195°12' 03"	+36°45' 28"	5.75 m	19.250 AE	3.66"	+ 147.0°	99 %	+ 43.0°
25-10-2010	23h51m36s	- 1°45' 28"	196°26' 35"	+36°34' 12"	5.75 m	19.259 AE	3.66"	+ 146.0°	96 %	+ 55.6°
26-10-2010	23h51m29s	- 1°46' 10"	197°40' 43"	+36°22' 08"	5.75 m	19.269 AE	3.66"	+ 144.9°	91 %	+ 68.5°
27-10-2010	23h51m22s	- 1°46' 52"	198°54' 25"	+36°09' 18"	5.76 m	19.279 AE	3.66"	+ 143.9°	85 %	+ 81.6°

Sichtbarkeit

Datum/Standort

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

Objekt

Planet:
 Uranus

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
28-10-2010	23h51m16s	- 1°47' 33"	200°07' 39"	+35°55' 43"	5.76 m	19.290 AE	3.65"	+ 142.9°	77 %	+ 94.8°
29-10-2010	23h51m09s	- 1°48' 13"	201°20' 25"	+35°41' 22"	5.76 m	19.300 AE	3.65"	+ 141.8°	67 %	+ 108.3°
30-10-2010	23h51m03s	- 1°48' 52"	202°32' 41"	+35°26' 18"	5.76 m	19.311 AE	3.65"	+ 140.8°	56 %	+ 121.9°
31-10-2010	23h50m57s	- 1°49' 31"	203°44' 28"	+35°10' 30"	5.76 m	19.322 AE	3.65"	+ 139.8°	45 %	+ 135.7°
01-11-2010	23h50m51s	- 1°50' 10"	221°37' 00"	+29°38' 33"	5.76 m	19.334 AE	3.65"	+ 138.7°	34 %	+ 150.3°
02-11-2010	23h50m45s	- 1°50' 46"	222°39' 36"	+29°12' 07"	5.76 m	19.346 AE	3.64"	+ 137.7°	23 %	+ 164.0°
03-11-2010	23h50m39s	- 1°51' 22"	223°41' 37"	+28°45' 12"	5.76 m	19.358 AE	3.64"	+ 136.7°	14 %	+ 173.7°
04-11-2010	23h50m33s	- 1°51' 57"	224°43' 03"	+28°17' 48"	5.77 m	19.370 AE	3.64"	+ 135.7°	7 %	+ 164.4°
05-11-2010	23h50m28s	- 1°52' 30"	225°43' 54"	+27°49' 58"	5.77 m	19.382 AE	3.64"	+ 134.6°	2 %	+ 150.5°
06-11-2010	23h50m22s	- 1°53' 03"	226°44' 11"	+27°21' 41"	5.77 m	19.394 AE	3.63"	+ 133.6°	0 %	+ 136.4°
07-11-2010	23h50m17s	- 1°53' 35"	227°43' 55"	+26°52' 58"	5.77 m	19.407 AE	3.63"	+ 132.6°	0 %	+ 122.4°
08-11-2010	23h50m12s	- 1°54' 06"	228°43' 05"	+26°23' 51"	5.77 m	19.420 AE	3.63"	+ 131.6°	4 %	+ 108.7°
09-11-2010	23h50m07s	- 1°54' 35"	229°41' 42"	+25°54' 20"	5.77 m	19.433 AE	3.63"	+ 130.5°	9 %	+ 95.3°
10-11-2010	23h50m02s	- 1°55' 04"	230°39' 47"	+25°24' 25"	5.78 m	19.446 AE	3.62"	+ 129.5°	16 %	+ 82.3°
11-11-2010	23h49m58s	- 1°55' 32"	231°37' 21"	+24°54' 09"	5.78 m	19.460 AE	3.62"	+ 128.5°	24 %	+ 69.7°
12-11-2010	23h49m53s	- 1°55' 58"	232°34' 23"	+24°23' 30"	5.78 m	19.473 AE	3.62"	+ 127.5°	33 %	+ 57.4°
13-11-2010	23h49m49s	- 1°56' 24"	233°30' 54"	+23°52' 31"	5.78 m	19.487 AE	3.62"	+ 126.4°	43 %	+ 45.4°
14-11-2010	23h49m45s	- 1°56' 48"	234°26' 56"	+23°21' 12"	5.78 m	19.501 AE	3.61"	+ 125.4°	52 %	+ 33.5°
15-11-2010	23h49m41s	- 1°57' 11"	235°22' 28"	+22°49' 33"	5.78 m	19.516 AE	3.61"	+ 124.4°	61 %	+ 21.9°
16-11-2010	23h49m37s	- 1°57' 34"	236°17' 31"	+22°17' 36"	5.79 m	19.530 AE	3.61"	+ 123.3°	70 %	+ 10.9°
17-11-2010	23h49m34s	- 1°57' 55"	237°12' 07"	+21°45' 21"	5.79 m	19.544 AE	3.61"	+ 122.3°	79 %	+ 6.0°
18-11-2010	23h49m30s	- 1°58' 15"	238°06' 15"	+21°12' 48"	5.79 m	19.559 AE	3.60"	+ 121.3°	86 %	+ 15.6°
19-11-2010	23h49m27s	- 1°58' 34"	238°59' 56"	+20°39' 59"	5.79 m	19.574 AE	3.60"	+ 120.3°	92 %	+ 27.5°
20-11-2010	23h49m24s	- 1°58' 51"	239°53' 11"	+20°06' 54"	5.79 m	19.589 AE	3.60"	+ 119.3°	96 %	+ 39.8°
21-11-2010	23h49m21s	- 1°59' 08"	240°46' 00"	+19°33' 34"	5.79 m	19.604 AE	3.60"	+ 118.2°	99 %	+ 52.5°
22-11-2010	23h49m18s	- 1°59' 23"	241°38' 25"	+18°59' 59"	5.80 m	19.620 AE	3.59"	+ 117.2°	99 %	+ 65.6°
23-11-2010	23h49m15s	- 1°59' 37"	242°30' 25"	+18°26' 10"	5.80 m	19.635 AE	3.59"	+ 116.2°	98 %	+ 78.8°
24-11-2010	23h49m13s	- 1°59' 51"	243°22' 03"	+17°52' 08"	5.80 m	19.651 AE	3.59"	+ 115.2°	94 %	+ 92.3°
25-11-2010	23h49m11s	- 2°00' 02"	244°13' 17"	+17°17' 53"	5.80 m	19.666 AE	3.58"	+ 114.2°	88 %	+ 106.0°
26-11-2010	23h49m09s	- 2°00' 13"	245°04' 10"	+16°43' 26"	5.80 m	19.682 AE	3.58"	+ 113.1°	80 %	+ 119.8°

Sichtbarkeit

Datum/Standort

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

Objekt

Planet:
 Uranus

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
27-11-2010	23h49m07s	- 2°00' 23"	245°54' 41"	+16°08' 47"	5.80 m	19.698 AE	3.58"	+ 112.1°	71 %	+ 133.7°
28-11-2010	23h49m05s	- 2°00' 31"	246°44' 52"	+15°33' 57"	5.81 m	19.714 AE	3.58"	+ 111.1°	60 %	+ 147.5°
29-11-2010	23h49m04s	- 2°00' 38"	247°34' 43"	+14°58' 57"	5.81 m	19.730 AE	3.57"	+ 110.1°	48 %	+ 161.1°
30-11-2010	23h49m02s	- 2°00' 44"	248°24' 14"	+14°23' 47"	5.81 m	19.747 AE	3.57"	+ 109.1°	37 %	+ 172.6°
01-12-2010	23h49m01s	- 2°00' 49"	249°13' 28"	+13°48' 27"	5.81 m	19.763 AE	3.57"	+ 108.0°	26 %	+ 167.7°
02-12-2010	23h49m00s	- 2°00' 52"	250°02' 23"	+13°12' 59"	5.81 m	19.779 AE	3.56"	+ 107.0°	17 %	+ 154.6°
03-12-2010	23h49m00s	- 2°00' 54"	250°51' 01"	+12°37' 22"	5.82 m	19.796 AE	3.56"	+ 106.0°	9 %	+ 140.9°
04-12-2010	23h48m59s	- 2°00' 56"	251°39' 23"	+12°01' 38"	5.82 m	19.813 AE	3.56"	+ 105.0°	3 %	+ 127.2°
05-12-2010	23h48m59s	- 2°00' 55"	252°27' 29"	+11°25' 46"	5.82 m	19.829 AE	3.55"	+ 104.0°	0 %	+ 113.6°
06-12-2010	23h48m58s	- 2°00' 54"	253°15' 20"	+10°49' 48"	5.82 m	19.846 AE	3.55"	+ 103.0°	0 %	+ 100.2°
07-12-2010	23h48m58s	- 2°00' 51"	254°02' 57"	+10°13' 43"	5.82 m	19.863 AE	3.55"	+ 101.9°	1 %	+ 87.0°
08-12-2010	23h48m59s	- 2°00' 47"	254°50' 20"	+9°37' 32"	5.82 m	19.880 AE	3.55"	+ 100.9°	5 %	+ 74.2°
09-12-2010	23h48m59s	- 2°00' 42"	255°37' 30"	+9°01' 16"	5.83 m	19.897 AE	3.54"	+ 99.9°	11 %	+ 61.6°
10-12-2010	23h49m00s	- 2°00' 36"	256°24' 28"	+8°24' 55"	5.83 m	19.914 AE	3.54"	+ 98.9°	18 %	+ 49.4°
11-12-2010	23h49m00s	- 2°00' 28"	257°11' 15"	+7°48' 29"	5.83 m	19.931 AE	3.54"	+ 97.9°	26 %	+ 37.5°
12-12-2010	23h49m01s	- 2°00' 19"	257°57' 50"	+7°12' 00"	5.83 m	19.948 AE	3.53"	+ 96.9°	35 %	+ 25.8°
13-12-2010	23h49m02s	- 2°00' 09"	258°44' 15"	+6°35' 27"	5.83 m	19.965 AE	3.53"	+ 95.9°	44 %	+ 14.4°
14-12-2010	23h49m04s	- 1°59' 58"	259°30' 30"	+5°58' 50"	5.84 m	19.983 AE	3.53"	+ 94.8°	53 %	+ 5.8°
15-12-2010	23h49m05s	- 1°59' 45"	260°16' 37"	+5°22' 11"	5.84 m	20.000 AE	3.52"	+ 93.8°	63 %	+ 11.8°
16-12-2010	23h49m07s	- 1°59' 31"	261°02' 35"	+4°45' 30"	5.84 m	20.017 AE	3.52"	+ 92.8°	71 %	+ 23.1°
17-12-2010	23h49m09s	- 1°59' 16"	261°48' 25"	+4°08' 46"	5.84 m	20.034 AE	3.52"	+ 91.8°	80 %	+ 35.1°
18-12-2010	23h49m11s	- 1°59' 00"	262°34' 09"	+3°32' 01"	5.84 m	20.052 AE	3.52"	+ 90.8°	87 %	+ 47.6°
19-12-2010	23h49m13s	- 1°58' 43"	263°19' 46"	+2°55' 15"	5.85 m	20.069 AE	3.51"	+ 89.8°	93 %	+ 60.5°
20-12-2010	23h49m16s	- 1°58' 24"	264°05' 17"	+2°18' 28"	5.85 m	20.086 AE	3.51"	+ 88.8°	97 %	+ 73.7°
21-12-2010	23h49m18s	- 1°58' 04"	264°50' 44"	+1°41' 41"	5.85 m	20.103 AE	3.51"	+ 87.8°	99 %	+ 87.3°
22-12-2010	23h49m21s	- 1°57' 43"	265°36' 06"	+1°04' 54"	5.85 m	20.121 AE	3.50"	+ 86.8°	99 %	+ 101.2°
23-12-2010	23h49m24s	- 1°57' 21"	266°21' 24"	+0°28' 07"	5.85 m	20.138 AE	3.50"	+ 85.8°	96 %	+ 115.4°
24-12-2010	23h49m27s	- 1°56' 57"	267°06' 39"	-0°08' 38"	5.85 m	20.155 AE	3.50"	+ 84.8°	91 %	+ 129.6°
25-12-2010	23h49m31s	- 1°56' 33"	267°51' 52"	-0°45' 23"	5.86 m	20.172 AE	3.49"	+ 83.8°	83 %	+ 143.8°
26-12-2010	23h49m34s	- 1°56' 07"	268°37' 03"	-1°22' 06"	5.86 m	20.189 AE	3.49"	+ 82.8°	74 %	+ 157.8°

Sichtbarkeit

Datum/Standort

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

Objekt

Planet:
 Uranus

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
27-12-2010	23h49m38s	- 1°55 ' 40"	269°22 ' 12"	-1°58 ' 47"	5.86 m	20.206 AE	3.49"	+ 81.8°	63 %	+ 170.5°
28-12-2010	23h49m42s	- 1°55 ' 12"	270°07 ' 21"	-2°35 ' 26"	5.86 m	20.224 AE	3.49"	+ 80.8°	52 %	+ 170.3°
29-12-2010	23h49m46s	- 1°54 ' 42"	270°52 ' 30"	-3°12 ' 02"	5.86 m	20.241 AE	3.48"	+ 79.8°	41 %	+ 157.9°
30-12-2010	23h49m51s	- 1°54 ' 12"	271°37 ' 40"	-3°48 ' 35"	5.87 m	20.258 AE	3.48"	+ 78.8°	30 %	+ 144.5°
31-12-2010	23h49m55s	- 1°53 ' 40"	272°22 ' 51"	-4°25 ' 05"	5.87 m	20.274 AE	3.48"	+ 77.8°	20 %	+ 131.0°