

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 50°28'24"N
 Län.: 7°51'7"O

Objekt

Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-01-2010	21h55m39s	-13°36'43"	288°53'01"	-32°05'48"	-1.96 m	5.637 AE	35.0"	+45.9°	99 %	+136.4°
02-01-2010	21h56m26s	-13°32'32"	289°38'56"	-32°30'58"	-1.95 m	5.648 AE	34.9"	+45.1°	98 %	+151.4°
03-01-2010	21h57m13s	-13°28'18"	290°25'09"	-32°55'55"	-1.95 m	5.659 AE	34.8"	+44.3°	93 %	+166.1°
04-01-2010	21h58m01s	-13°24'02"	291°11'40"	-33°20'39"	-1.95 m	5.670 AE	34.8"	+43.5°	85 %	+175.2°
05-01-2010	21h58m48s	-13°19'44"	291°58'31"	-33°45'09"	-1.94 m	5.681 AE	34.7"	+42.7°	76 %	+163.2°
06-01-2010	21h59m37s	-13°15'23"	292°45'41"	-34°09'25"	-1.94 m	5.691 AE	34.6"	+41.9°	66 %	+149.4°
07-01-2010	22h00m25s	-13°11'01"	293°33'12"	-34°33'27"	-1.94 m	5.701 AE	34.6"	+41.1°	55 %	+135.9°
08-01-2010	22h01m14s	-13°06'37"	294°21'02"	-34°57'14"	-1.93 m	5.712 AE	34.5"	+40.3°	44 %	+122.8°
09-01-2010	22h02m03s	-13°02'11"	295°09'14"	-35°20'46"	-1.93 m	5.722 AE	34.5"	+39.5°	34 %	+110.0°
10-01-2010	22h02m52s	-12°57'43"	295°57'47"	-35°44'03"	-1.93 m	5.731 AE	34.4"	+38.6°	24 %	+97.5°
11-01-2010	22h03m41s	-12°53'12"	296°46'42"	-36°07'04"	-1.93 m	5.741 AE	34.3"	+37.9°	16 %	+85.4°
12-01-2010	22h04m31s	-12°48'40"	297°35'59"	-36°29'49"	-1.92 m	5.751 AE	34.3"	+37.0°	10 %	+73.4°
13-01-2010	22h05m21s	-12°44'07"	298°25'38"	-36°52'18"	-1.92 m	5.760 AE	34.2"	+36.2°	4 %	+61.6°
14-01-2010	22h06m11s	-12°39'31"	299°15'40"	-37°14'30"	-1.92 m	5.769 AE	34.2"	+35.4°	1 %	+50.0°
15-01-2010	22h07m02s	-12°34'53"	300°06'06"	-37°36'26"	-1.91 m	5.778 AE	34.1"	+34.6°	0 %	+38.5°
16-01-2010	22h07m52s	-12°30'14"	300°56'55"	-37°58'04"	-1.91 m	5.787 AE	34.1"	+33.8°	0 %	+27.0°
17-01-2010	22h08m43s	-12°25'33"	301°48'08"	-38°19'25"	-1.91 m	5.795 AE	34.0"	+33.0°	2 %	+15.8°
18-01-2010	22h09m34s	-12°20'51"	302°39'45"	-38°40'27"	-1.91 m	5.804 AE	34.0"	+32.3°	6 %	+5.4°
19-01-2010	22h10m25s	-12°16'06"	303°31'47"	-39°01'11"	-1.90 m	5.812 AE	33.9"	+31.4°	11 %	+8.6°
20-01-2010	22h11m17s	-12°11'20"	304°24'14"	-39°21'37"	-1.90 m	5.820 AE	33.9"	+30.6°	18 %	+19.6°
21-01-2010	22h12m08s	-12°06'33"	305°17'06"	-39°41'43"	-1.90 m	5.828 AE	33.8"	+29.9°	26 %	+31.3°
22-01-2010	22h13m00s	-12°01'43"	306°10'24"	-40°01'30"	-1.90 m	5.836 AE	33.8"	+29.1°	35 %	+43.1°
23-01-2010	22h13m52s	-11°56'53"	307°04'07"	-40°20'57"	-1.90 m	5.843 AE	33.7"	+28.3°	45 %	+55.3°
24-01-2010	22h14m44s	-11°52'00"	307°58'16"	-40°40'03"	-1.89 m	5.850 AE	33.7"	+27.5°	55 %	+67.9°
25-01-2010	22h15m36s	-11°47'07"	308°52'52"	-40°58'49"	-1.89 m	5.858 AE	33.7"	+26.7°	65 %	+80.9°
26-01-2010	22h16m28s	-11°42'12"	309°47'53"	-41°17'14"	-1.89 m	5.865 AE	33.6"	+25.9°	75 %	+94.5°
27-01-2010	22h17m21s	-11°37'15"	310°43'21"	-41°35'17"	-1.89 m	5.871 AE	33.6"	+25.1°	84 %	+108.5°
28-01-2010	22h18m14s	-11°32'17"	311°39'15"	-41°52'58"	-1.89 m	5.878 AE	33.5"	+24.4°	92 %	+123.0°
29-01-2010	22h19m06s	-11°27'18"	312°35'36"	-42°10'17"	-1.89 m	5.884 AE	33.5"	+23.6°	97 %	+137.9°
30-01-2010	22h19m59s	-11°22'18"	313°32'23"	-42°27'14"	-1.88 m	5.890 AE	33.5"	+22.8°	99 %	+152.9°

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Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
31-01-2010	22h20m52s	-11° 17 ' 16"	314° 29 ' 37"	-42° 43 ' 47"	-1.88 m	5.896 AE	33.4"	+ 22.0°	99 %	+ 167.7°
01-02-2010	22h21m45s	-11° 12 ' 13"	315° 27 ' 18"	-42° 59 ' 56"	-1.88 m	5.902 AE	33.4"	+ 21.2°	95 %	+ 173.7°
02-02-2010	22h22m39s	-11° 07 ' 08"	316° 25 ' 24"	-43° 15 ' 41"	-1.88 m	5.908 AE	33.4"	+ 20.4°	89 %	+ 160.7°
03-02-2010	22h23m32s	-11° 02 ' 03"	317° 23 ' 57"	-43° 31 ' 02"	-1.88 m	5.913 AE	33.3"	+ 19.6°	81 %	+ 146.6°
04-02-2010	22h24m26s	-10° 56 ' 56"	318° 22 ' 56"	-43° 45 ' 57"	-1.88 m	5.918 AE	33.3"	+ 18.9°	71 %	+ 132.9°
05-02-2010	22h25m19s	-10° 51 ' 48"	319° 22 ' 21"	-44° 00 ' 28"	-1.88 m	5.923 AE	33.3"	+ 18.1°	60 %	+ 119.6°
06-02-2010	22h26m13s	-10° 46 ' 39"	320° 22 ' 12"	-44° 14 ' 32"	-1.88 m	5.928 AE	33.3"	+ 17.3°	50 %	+ 106.8°
07-02-2010	22h27m07s	-10° 41 ' 28"	321° 22 ' 28"	-44° 28 ' 10"	-1.88 m	5.932 AE	33.2"	+ 16.6°	40 %	+ 94.4°
08-02-2010	22h28m00s	-10° 36 ' 17"	322° 23 ' 08"	-44° 41 ' 22"	-1.87 m	5.937 AE	33.2"	+ 15.8°	30 %	+ 82.3°
09-02-2010	22h28m54s	-10° 31 ' 05"	323° 24 ' 14"	-44° 54 ' 06"	-1.87 m	5.941 AE	33.2"	+ 15.0°	22 %	+ 70.5°
10-02-2010	22h29m48s	-10° 25 ' 52"	324° 25 ' 44"	-45° 06 ' 23"	-1.87 m	5.945 AE	33.2"	+ 14.2°	14 %	+ 58.8°
11-02-2010	22h30m42s	-10° 20 ' 37"	325° 27 ' 37"	-45° 18 ' 11"	-1.87 m	5.949 AE	33.1"	+ 13.4°	8 %	+ 47.4°
12-02-2010	22h31m37s	-10° 15 ' 22"	326° 29 ' 54"	-45° 29 ' 32"	-1.87 m	5.952 AE	33.1"	+ 12.7°	4 %	+ 36.0°
13-02-2010	22h32m31s	-10° 10 ' 06"	327° 32 ' 33"	-45° 40 ' 24"	-1.87 m	5.955 AE	33.1"	+ 11.9°	1 %	+ 24.6°
14-02-2010	22h33m25s	-10° 04 ' 49"	328° 35 ' 35"	-45° 50 ' 46"	-1.87 m	5.959 AE	33.1"	+ 11.1°	0 %	+ 13.5°
15-02-2010	22h34m19s	- 9° 59 ' 31"	329° 38 ' 58"	-46° 00 ' 40"	-1.87 m	5.961 AE	33.1"	+ 10.4°	0 %	+ 4.3°
16-02-2010	22h35m14s	- 9° 54 ' 12"	330° 42 ' 41"	-46° 10 ' 03"	-1.87 m	5.964 AE	33.1"	+ 9.6°	3 %	+ 11.0°
17-02-2010	22h36m08s	- 9° 48 ' 53"	331° 46 ' 45"	-46° 18 ' 56"	-1.87 m	5.967 AE	33.0"	+ 8.8°	7 %	+ 22.3°
18-02-2010	22h37m02s	- 9° 43 ' 33"	332° 51 ' 08"	-46° 27 ' 19"	-1.87 m	5.969 AE	33.0"	+ 8.1°	13 %	+ 33.9°
19-02-2010	22h37m57s	- 9° 38 ' 12"	333° 55 ' 50"	-46° 35 ' 10"	-1.87 m	5.971 AE	33.0"	+ 7.3°	20 %	+ 45.9°
20-02-2010	22h38m51s	- 9° 32 ' 51"	335° 00 ' 49"	-46° 42 ' 31"	-1.87 m	5.973 AE	33.0"	+ 6.5°	29 %	+ 58.1°
21-02-2010	22h39m46s	- 9° 27 ' 29"	336° 06 ' 04"	-46° 49 ' 20"	-1.87 m	5.975 AE	33.0"	+ 5.8°	38 %	+ 70.6°
22-02-2010	22h40m40s	- 9° 22 ' 07"	337° 11 ' 36"	-46° 55 ' 37"	-1.87 m	5.976 AE	33.0"	+ 5.0°	49 %	+ 83.5°
23-02-2010	22h41m35s	- 9° 16 ' 43"	338° 17 ' 22"	-47° 01 ' 23"	-1.87 m	5.977 AE	33.0"	+ 4.3°	60 %	+ 96.8°
24-02-2010	22h42m29s	- 9° 11 ' 20"	339° 23 ' 22"	-47° 06 ' 35"	-1.87 m	5.978 AE	33.0"	+ 3.5°	70 %	+ 110.5°
25-02-2010	22h43m24s	- 9° 05 ' 56"	340° 29 ' 34"	-47° 11 ' 16"	-1.87 m	5.979 AE	33.0"	+ 2.8°	80 %	+ 124.7°
26-02-2010	22h44m18s	- 9° 00 ' 31"	341° 35 ' 58"	-47° 15 ' 23"	-1.87 m	5.980 AE	33.0"	+ 2.1°	89 %	+ 139.3°
27-02-2010	22h45m12s	- 8° 55 ' 07"	342° 42 ' 32"	-47° 18 ' 57"	-1.87 m	5.980 AE	33.0"	+ 1.5°	95 %	+ 154.0°
28-02-2010	22h46m07s	- 8° 49 ' 41"	343° 49 ' 16"	-47° 21 ' 58"	-1.87 m	5.981 AE	33.0"	+ 1.0°	99 %	+ 168.4°
01-03-2010	22h47m01s	- 8° 44 ' 16"	344° 56 ' 07"	-47° 24 ' 26"	-1.87 m	5.981 AE	33.0"	+ 1.0°	99 %	+ 172.7°

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Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
02-03-2010	22h47m56s	- 8°38' 50"	346°03' 05"	-47°26' 20"	-1.87 m	5.980 AE	33.0"	+ 1.5°	97 %	+ 159.5°
03-03-2010	22h48m50s	- 8°33' 24"	347°10' 09"	-47°27' 40"	-1.87 m	5.980 AE	33.0"	+ 2.1°	92 %	+ 145.3°
04-03-2010	22h49m44s	- 8°27' 57"	348°17' 16"	-47°28' 27"	-1.87 m	5.980 AE	33.0"	+ 2.8°	85 %	+ 131.3°
05-03-2010	22h50m39s	- 8°22' 31"	349°24' 27"	-47°28' 39"	-1.87 m	5.979 AE	33.0"	+ 3.5°	76 %	+ 117.8°
06-03-2010	22h51m33s	- 8°17' 04"	350°31' 39"	-47°28' 18"	-1.87 m	5.978 AE	33.0"	+ 4.3°	67 %	+ 104.8°
07-03-2010	22h52m27s	- 8°11' 37"	351°38' 52"	-47°27' 22"	-1.87 m	5.977 AE	33.0"	+ 5.0°	57 %	+ 92.3°
08-03-2010	22h53m21s	- 8°06' 10"	352°46' 04"	-47°25' 52"	-1.87 m	5.975 AE	33.0"	+ 5.8°	47 %	+ 80.2°
09-03-2010	22h54m15s	- 8°00' 42"	353°53' 13"	-47°23' 48"	-1.87 m	5.973 AE	33.0"	+ 6.5°	37 %	+ 68.3°
10-03-2010	22h55m09s	- 7°55' 15"	355°00' 19"	-47°21' 10"	-1.87 m	5.972 AE	33.0"	+ 7.3°	28 %	+ 56.7°
11-03-2010	22h56m03s	- 7°49' 48"	356°07' 21"	-47°17' 58"	-1.87 m	5.970 AE	33.0"	+ 8.0°	20 %	+ 45.3°
12-03-2010	22h56m57s	- 7°44' 21"	357°14' 16"	-47°14' 12"	-1.87 m	5.967 AE	33.0"	+ 8.8°	13 %	+ 33.9°
13-03-2010	22h57m51s	- 7°38' 53"	358°21' 05"	-47°09' 52"	-1.87 m	5.965 AE	33.1"	+ 9.6°	7 %	+ 22.6°
14-03-2010	22h58m45s	- 7°33' 26"	359°27' 45"	-47°04' 58"	-1.87 m	5.962 AE	33.1"	+ 10.3°	3 %	+ 11.6°
15-03-2010	22h59m38s	- 7°27' 59"	0°34' 15"	-46°59' 31"	-1.87 m	5.959 AE	33.1"	+ 11.1°	0 %	+ 4.5°
16-03-2010	23h00m32s	- 7°22' 33"	1°40' 35"	-46°53' 30"	-1.87 m	5.956 AE	33.1"	+ 11.8°	0 %	+ 13.3°
17-03-2010	23h01m26s	- 7°17' 06"	2°46' 43"	-46°46' 55"	-1.87 m	5.953 AE	33.1"	+ 12.6°	1 %	+ 24.8°
18-03-2010	23h02m19s	- 7°11' 40"	3°52' 38"	-46°39' 48"	-1.88 m	5.950 AE	33.1"	+ 13.3°	4 %	+ 36.7°
19-03-2010	23h03m12s	- 7°06' 14"	4°58' 19"	-46°32' 07"	-1.88 m	5.946 AE	33.2"	+ 14.1°	9 %	+ 48.8°
20-03-2010	23h04m05s	- 7°00' 48"	6°03' 46"	-46°23' 54"	-1.88 m	5.942 AE	33.2"	+ 14.8°	16 %	+ 61.2°
21-03-2010	23h04m59s	- 6°55' 23"	7°08' 56"	-46°15' 08"	-1.88 m	5.938 AE	33.2"	+ 15.6°	24 %	+ 73.9°
22-03-2010	23h05m51s	- 6°49' 58"	8°13' 50"	-46°05' 50"	-1.88 m	5.934 AE	33.2"	+ 16.3°	34 %	+ 86.8°
23-03-2010	23h06m44s	- 6°44' 34"	9°18' 25"	-45°56' 00"	-1.88 m	5.929 AE	33.2"	+ 17.1°	44 %	+ 100.1°
24-03-2010	23h07m37s	- 6°39' 10"	10°22' 42"	-45°45' 38"	-1.88 m	5.925 AE	33.3"	+ 17.9°	55 %	+ 113.7°
25-03-2010	23h08m30s	- 6°33' 46"	11°26' 40"	-45°34' 44"	-1.88 m	5.920 AE	33.3"	+ 18.6°	66 %	+ 127.6°
26-03-2010	23h09m22s	- 6°28' 24"	12°30' 17"	-45°23' 20"	-1.88 m	5.915 AE	33.3"	+ 19.4°	77 %	+ 141.7°
27-03-2010	23h10m14s	- 6°23' 01"	13°33' 34"	-45°11' 24"	-1.88 m	5.910 AE	33.4"	+ 20.1°	86 %	+ 156.0°
28-03-2010	23h11m07s	- 6°17' 40"	14°36' 28"	-44°58' 58"	-1.89 m	5.904 AE	33.4"	+ 20.9°	93 %	+ 169.6°
29-03-2010	23h11m56s	- 6°12' 32"	354°25' 05"	-45°36' 50"	-1.89 m	5.899 AE	33.4"	+ 21.6°	97 %	+ 171.7°
30-03-2010	23h12m48s	- 6°07' 12"	355°31' 00"	-45°34' 05"	-1.89 m	5.893 AE	33.5"	+ 22.4°	99 %	+ 158.7°
31-03-2010	23h13m40s	- 6°01' 52"	356°36' 52"	-45°30' 47"	-1.89 m	5.887 AE	33.5"	+ 23.1°	98 %	+ 144.6°

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	RA	Dek							Phase	Winkel
01-04-2010	23h14m32s	- 5°56' 34"	357°42' 40"	-45°26' 56"	-1.89 m	5.881 AE	33.5"	+ 23.9°	95 %	+ 130.7°
02-04-2010	23h15m23s	- 5°51' 16"	358°48' 22"	-45°22' 31"	-1.89 m	5.875 AE	33.6"	+ 24.6°	89 %	+ 117.1°
03-04-2010	23h16m14s	- 5°45' 58"	359°53' 59"	-45°17' 34"	-1.90 m	5.868 AE	33.6"	+ 25.4°	82 %	+ 104.0°
04-04-2010	23h17m06s	- 5°40' 42"	0°59' 28"	-45°12' 04"	-1.90 m	5.862 AE	33.6"	+ 26.1°	73 %	+ 91.4°
05-04-2010	23h17m56s	- 5°35' 26"	2°04' 48"	-45°06' 01"	-1.90 m	5.855 AE	33.7"	+ 26.9°	64 %	+ 79.1°
06-04-2010	23h18m47s	- 5°30' 12"	3°09' 59"	-44°59' 25"	-1.90 m	5.848 AE	33.7"	+ 27.6°	54 %	+ 67.2°
07-04-2010	23h19m38s	- 5°24' 58"	4°15' 00"	-44°52' 17"	-1.90 m	5.840 AE	33.8"	+ 28.4°	45 %	+ 55.5°
08-04-2010	23h20m28s	- 5°19' 46"	5°19' 49"	-44°44' 37"	-1.91 m	5.833 AE	33.8"	+ 29.1°	35 %	+ 44.1°
09-04-2010	23h21m18s	- 5°14' 34"	6°24' 26"	-44°36' 24"	-1.91 m	5.825 AE	33.8"	+ 29.9°	27 %	+ 32.7°
10-04-2010	23h22m08s	- 5°09' 23"	7°28' 50"	-44°27' 39"	-1.91 m	5.817 AE	33.9"	+ 30.7°	19 %	+ 21.4°
11-04-2010	23h22m58s	- 5°04' 14"	8°32' 59"	-44°18' 22"	-1.91 m	5.809 AE	33.9"	+ 31.4°	12 %	+ 10.5°
12-04-2010	23h23m48s	- 4°59' 06"	9°36' 54"	-44°08' 34"	-1.91 m	5.801 AE	34.0"	+ 32.2°	6 %	+ 5.3°
13-04-2010	23h24m37s	- 4°53' 59"	10°40' 33"	-43°58' 14"	-1.92 m	5.793 AE	34.0"	+ 32.9°	2 %	+ 15.0°
14-04-2010	23h25m26s	- 4°48' 53"	11°43' 55"	-43°47' 23"	-1.92 m	5.784 AE	34.1"	+ 33.7°	0 %	+ 26.7°
15-04-2010	23h26m15s	- 4°43' 49"	12°47' 00"	-43°36' 01"	-1.92 m	5.776 AE	34.1"	+ 34.5°	0 %	+ 38.9°
16-04-2010	23h27m04s	- 4°38' 46"	13°49' 47"	-43°24' 09"	-1.93 m	5.767 AE	34.2"	+ 35.2°	2 %	+ 51.4°
17-04-2010	23h27m53s	- 4°33' 44"	14°52' 16"	-43°11' 46"	-1.93 m	5.758 AE	34.2"	+ 36.0°	6 %	+ 64.1°
18-04-2010	23h28m41s	- 4°28' 44"	15°54' 25"	-42°58' 53"	-1.93 m	5.749 AE	34.3"	+ 36.7°	12 %	+ 77.1°
19-04-2010	23h29m29s	- 4°23' 45"	16°56' 15"	-42°45' 31"	-1.93 m	5.739 AE	34.3"	+ 37.5°	20 %	+ 90.4°
20-04-2010	23h30m17s	- 4°18' 47"	17°57' 44"	-42°31' 38"	-1.94 m	5.730 AE	34.4"	+ 38.3°	29 %	+ 103.8°
21-04-2010	23h31m04s	- 4°13' 52"	18°58' 53"	-42°17' 17"	-1.94 m	5.720 AE	34.5"	+ 39.0°	40 %	+ 117.5°
22-04-2010	23h31m52s	- 4°08' 57"	19°59' 41"	-42°02' 27"	-1.94 m	5.710 AE	34.5"	+ 39.8°	51 %	+ 131.3°
23-04-2010	23h32m39s	- 4°04' 05"	21°00' 06"	-41°47' 08"	-1.95 m	5.700 AE	34.6"	+ 40.5°	63 %	+ 145.2°
24-04-2010	23h33m26s	- 3°59' 14"	22°00' 10"	-41°31' 21"	-1.95 m	5.690 AE	34.6"	+ 41.3°	73 %	+ 159.0°
25-04-2010	23h34m12s	- 3°54' 25"	22°59' 52"	-41°15' 06"	-1.95 m	5.680 AE	34.7"	+ 42.1°	83 %	+ 171.4°
26-04-2010	23h34m58s	- 3°49' 37"	23°59' 11"	-40°58' 24"	-1.96 m	5.669 AE	34.8"	+ 42.8°	91 %	+ 169.2°
27-04-2010	23h35m44s	- 3°44' 51"	24°58' 06"	-40°41' 15"	-1.96 m	5.659 AE	34.8"	+ 43.6°	96 %	+ 156.2°
28-04-2010	23h36m30s	- 3°40' 07"	25°56' 39"	-40°23' 38"	-1.96 m	5.648 AE	34.9"	+ 44.4°	99 %	+ 142.4°
29-04-2010	23h37m16s	- 3°35' 25"	26°54' 49"	-40°05' 35"	-1.97 m	5.637 AE	35.0"	+ 45.1°	99 %	+ 128.8°
30-04-2010	23h38m01s	- 3°30' 44"	27°52' 34"	-39°47' 06"	-1.97 m	5.626 AE	35.0"	+ 45.9°	97 %	+ 115.4°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 50°28'24"N
 Län.: 7°51'7"O

Objekt

Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-05-2010	23h38m45s	- 3°26' 06"	28°49' 57"	-39°28' 12"	-1.98 m	5.615 AE	35.1"	+ 46.7°	93 %	+ 102.3°
02-05-2010	23h39m30s	- 3°21' 29"	29°46' 55"	-39°08' 52"	-1.98 m	5.604 AE	35.2"	+ 47.5°	87 %	+ 89.7°
03-05-2010	23h40m14s	- 3°16' 54"	30°43' 30"	-38°49' 06"	-1.98 m	5.592 AE	35.3"	+ 48.2°	79 %	+ 77.3°
04-05-2010	23h40m58s	- 3°12' 21"	31°39' 41"	-38°28' 57"	-1.99 m	5.581 AE	35.3"	+ 49.0°	71 %	+ 65.3°
05-05-2010	23h41m42s	- 3°07' 51"	32°35' 28"	-38°08' 23"	-1.99 m	5.569 AE	35.4"	+ 49.8°	62 %	+ 53.6°
06-05-2010	23h42m25s	- 3°03' 22"	33°30' 52"	-37°47' 25"	-2.00 m	5.557 AE	35.5"	+ 50.5°	52 %	+ 42.0°
07-05-2010	23h43m08s	- 2°58' 56"	34°25' 52"	-37°26' 03"	-2.00 m	5.545 AE	35.6"	+ 51.3°	43 %	+ 30.6°
08-05-2010	23h43m51s	- 2°54' 31"	35°20' 29"	-37°04' 18"	-2.00 m	5.533 AE	35.6"	+ 52.1°	33 %	+ 19.3°
09-05-2010	23h44m33s	- 2°50' 09"	36°14' 43"	-36°42' 11"	-2.01 m	5.521 AE	35.7"	+ 52.9°	25 %	+ 8.7°
10-05-2010	23h45m15s	- 2°45' 49"	37°08' 33"	-36°19' 41"	-2.01 m	5.508 AE	35.8"	+ 53.6°	17 %	+ 7.0°
11-05-2010	23h45m57s	- 2°41' 32"	38°02' 01"	-35°56' 48"	-2.02 m	5.496 AE	35.9"	+ 54.4°	10 %	+ 17.6°
12-05-2010	23h46m38s	- 2°37' 17"	38°55' 06"	-35°33' 34"	-2.02 m	5.483 AE	36.0"	+ 55.2°	5 %	+ 29.6°
13-05-2010	23h47m19s	- 2°33' 04"	39°47' 48"	-35°09' 59"	-2.03 m	5.470 AE	36.0"	+ 56.0°	1 %	+ 42.0°
14-05-2010	23h48m00s	- 2°28' 53"	40°40' 09"	-34°46' 02"	-2.03 m	5.457 AE	36.1"	+ 56.8°	0 %	+ 54.9°
15-05-2010	23h48m40s	- 2°24' 45"	41°32' 07"	-34°21' 45"	-2.04 m	5.444 AE	36.2"	+ 57.5°	0 %	+ 68.0°
16-05-2010	23h49m20s	- 2°20' 40"	42°23' 44"	-33°57' 07"	-2.04 m	5.431 AE	36.3"	+ 58.3°	4 %	+ 81.5°
17-05-2010	23h49m59s	- 2°16' 37"	43°15' 00"	-33°32' 09"	-2.05 m	5.418 AE	36.4"	+ 59.1°	9 %	+ 95.1°
18-05-2010	23h50m38s	- 2°12' 37"	44°05' 55"	-33°06' 52"	-2.05 m	5.405 AE	36.5"	+ 59.9°	17 %	+ 108.9°
19-05-2010	23h51m17s	- 2°08' 39"	44°56' 29"	-32°41' 15"	-2.06 m	5.391 AE	36.6"	+ 60.7°	27 %	+ 122.8°
20-05-2010	23h51m55s	- 2°04' 44"	45°46' 43"	-32°15' 19"	-2.06 m	5.378 AE	36.7"	+ 61.5°	37 %	+ 136.7°
21-05-2010	23h52m33s	- 2°00' 52"	46°36' 37"	-31°49' 04"	-2.07 m	5.364 AE	36.8"	+ 62.3°	49 %	+ 150.5°
22-05-2010	23h53m11s	- 1°57' 03"	47°26' 12"	-31°22' 30"	-2.07 m	5.350 AE	36.8"	+ 63.1°	60 %	+ 163.8°
23-05-2010	23h53m48s	- 1°53' 16"	48°15' 27"	-30°55' 38"	-2.08 m	5.336 AE	36.9"	+ 63.9°	71 %	+ 173.0°
24-05-2010	23h54m24s	- 1°49' 32"	49°04' 24"	-30°28' 29"	-2.08 m	5.322 AE	37.0"	+ 64.7°	81 %	+ 164.9°
25-05-2010	23h55m01s	- 1°45' 51"	49°53' 03"	-30°01' 02"	-2.09 m	5.308 AE	37.1"	+ 65.5°	89 %	+ 151.9°
26-05-2010	23h55m37s	- 1°42' 13"	50°41' 23"	-29°33' 17"	-2.09 m	5.294 AE	37.2"	+ 66.3°	94 %	+ 138.6°
27-05-2010	23h56m12s	- 1°38' 38"	51°29' 26"	-29°05' 16"	-2.10 m	5.280 AE	37.3"	+ 67.1°	98 %	+ 125.3°
28-05-2010	23h56m47s	- 1°35' 05"	52°17' 12"	-28°36' 58"	-2.11 m	5.266 AE	37.4"	+ 67.9°	99 %	+ 112.2°
29-05-2010	23h57m21s	- 1°31' 36"	53°04' 41"	-28°08' 23"	-2.11 m	5.251 AE	37.5"	+ 68.7°	98 %	+ 99.3°
30-05-2010	23h57m55s	- 1°28' 10"	53°51' 54"	-27°39' 32"	-2.12 m	5.237 AE	37.6"	+ 69.5°	95 %	+ 86.8°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 50°28'24"N
 Län.: 7°51'7"O

Objekt

Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
31-05-2010	23h58m29s	- 1°24' 46"	54°38' 51"	-27°10' 26"	-2.12 m	5.222 AE	37.8"	+ 70.3°	91 %	+ 74.5°
01-06-2010	23h59m02s	- 1°21' 26"	55°25' 32"	-26°41' 04"	-2.13 m	5.208 AE	37.9"	+ 71.1°	84 %	+ 62.4°
02-06-2010	23h59m35s	- 1°18' 09"	56°11' 59"	-26°11' 26"	-2.13 m	5.193 AE	38.0"	+ 71.9°	77 %	+ 50.6°
03-06-2010	0h00m07s	- 1°14' 56"	56°58' 12"	-25°41' 34"	-2.14 m	5.178 AE	38.1"	+ 72.7°	68 %	+ 39.0°
04-06-2010	0h00m39s	- 1°11' 45"	57°44' 11"	-25°11' 26"	-2.15 m	5.164 AE	38.2"	+ 73.5°	59 %	+ 27.5°
05-06-2010	0h01m10s	- 1°08' 38"	58°29' 56"	-24°41' 04"	-2.15 m	5.149 AE	38.3"	+ 74.3°	50 %	+ 16.3°
06-06-2010	0h01m41s	- 1°05' 34"	59°15' 28"	-24°10' 28"	-2.16 m	5.134 AE	38.4"	+ 75.2°	40 %	+ 6.5°
07-06-2010	0h02m11s	- 1°02' 34"	60°00' 49"	-23°39' 38"	-2.16 m	5.119 AE	38.5"	+ 76.0°	31 %	+ 9.9°
08-06-2010	0h02m41s	- 0°59' 37"	60°45' 57"	-23°08' 34"	-2.17 m	5.104 AE	38.6"	+ 76.8°	22 %	+ 21.1°
09-06-2010	0h03m10s	- 0°56' 43"	61°30' 54"	-22°37' 17"	-2.18 m	5.089 AE	38.7"	+ 77.6°	14 %	+ 33.4°
10-06-2010	0h03m39s	- 0°53' 53"	62°15' 40"	-22°05' 46"	-2.18 m	5.074 AE	38.9"	+ 78.5°	7 %	+ 46.0°
11-06-2010	0h04m07s	- 0°51' 07"	63°00' 16"	-21°34' 02"	-2.19 m	5.058 AE	39.0"	+ 79.3°	3 %	+ 59.2°
12-06-2010	0h04m34s	- 0°48' 24"	63°44' 42"	-21°02' 05"	-2.20 m	5.043 AE	39.1"	+ 80.1°	0 %	+ 72.7°
13-06-2010	0h05m02s	- 0°45' 44"	64°28' 59"	-20°29' 56"	-2.20 m	5.028 AE	39.2"	+ 81.0°	0 %	+ 86.6°
14-06-2010	0h05m28s	- 0°43' 09"	65°13' 07"	-19°57' 34"	-2.21 m	5.013 AE	39.3"	+ 81.8°	2 %	+ 100.7°
15-06-2010	0h05m54s	- 0°40' 37"	65°57' 06"	-19°25' 00"	-2.22 m	4.997 AE	39.5"	+ 82.7°	7 %	+ 114.9°
16-06-2010	0h06m20s	- 0°38' 09"	66°40' 58"	-18°52' 14"	-2.22 m	4.982 AE	39.6"	+ 83.5°	15 %	+ 129.2°
17-06-2010	0h06m45s	- 0°35' 45"	67°24' 43"	-18°19' 16"	-2.23 m	4.967 AE	39.7"	+ 84.3°	24 %	+ 143.3°
18-06-2010	0h07m09s	- 0°33' 24"	68°08' 21"	-17°46' 07"	-2.24 m	4.951 AE	39.8"	+ 85.2°	35 %	+ 157.1°
19-06-2010	0h07m33s	- 0°31' 08"	68°51' 53"	-17°12' 47"	-2.24 m	4.936 AE	39.9"	+ 86.0°	47 %	+ 169.4°
20-06-2010	0h07m56s	- 0°28' 55"	69°35' 20"	-16°39' 16"	-2.25 m	4.920 AE	40.1"	+ 86.9°	58 %	+ 170.3°
21-06-2010	0h08m18s	- 0°26' 46"	70°18' 41"	-16°05' 33"	-2.26 m	4.905 AE	40.2"	+ 87.7°	69 %	+ 158.7°
22-06-2010	0h08m40s	- 0°24' 41"	71°01' 57"	-15°31' 41"	-2.26 m	4.889 AE	40.3"	+ 88.6°	78 %	+ 145.7°
23-06-2010	0h09m02s	- 0°22' 40"	71°45' 10"	-14°57' 38"	-2.27 m	4.874 AE	40.4"	+ 89.5°	86 %	+ 132.6°
24-06-2010	0h09m23s	- 0°20' 43"	72°28' 18"	-14°23' 25"	-2.28 m	4.859 AE	40.6"	+ 90.3°	93 %	+ 119.6°
25-06-2010	0h09m43s	- 0°18' 50"	73°11' 24"	-13°49' 02"	-2.28 m	4.843 AE	40.7"	+ 91.2°	97 %	+ 106.8°
26-06-2010	0h10m02s	- 0°17' 01"	73°54' 27"	-13°14' 29"	-2.29 m	4.828 AE	40.8"	+ 92.0°	99 %	+ 94.2°
27-06-2010	0h10m21s	- 0°15' 17"	74°37' 28"	-12°39' 47"	-2.30 m	4.812 AE	41.0"	+ 92.9°	99 %	+ 81.8°
28-06-2010	0h10m40s	- 0°13' 36"	75°20' 28"	-12°04' 55"	-2.31 m	4.797 AE	41.1"	+ 93.8°	97 %	+ 69.6°
29-06-2010	0h10m57s	- 0°12' 00"	76°03' 26"	-11°29' 55"	-2.31 m	4.781 AE	41.2"	+ 94.7°	94 %	+ 57.6°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 50°28'24"N
 Län.: 7°51'7"O

Objekt

Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
30-06-2010	0h11m15s	- 0°10' 27"	76°46' 25"	-10°54' 46"	-2.32 m	4.766 AE	41.4"	+ 95.5°	89 %	+ 45.8°
01-07-2010	0h11m31s	- 0°08' 59"	77°29' 24"	-10°19' 29"	-2.33 m	4.751 AE	41.5"	+ 96.4°	82 %	+ 34.1°
02-07-2010	0h11m47s	- 0°07' 36"	78°12' 23"	-9°44' 03"	-2.33 m	4.735 AE	41.6"	+ 97.3°	74 %	+ 22.6°
03-07-2010	0h12m02s	- 0°06' 16"	78°55' 24"	-9°08' 30"	-2.34 m	4.720 AE	41.8"	+ 98.2°	66 %	+ 11.6°
04-07-2010	0h12m17s	- 0°05' 01"	79°38' 27"	-8°32' 48"	-2.35 m	4.705 AE	41.9"	+ 99.1°	56 %	+ 5.9°
05-07-2010	0h12m30s	- 0°03' 50"	80°21' 32"	-7°57' 00"	-2.36 m	4.689 AE	42.0"	+ 100.0°	47 %	+ 14.8°
06-07-2010	0h12m44s	- 0°02' 44"	81°04' 41"	-7°21' 03"	-2.36 m	4.674 AE	42.2"	+ 100.8°	37 %	+ 26.5°
07-07-2010	0h12m56s	- 0°01' 42"	81°47' 53"	-6°45' 00"	-2.37 m	4.659 AE	42.3"	+ 101.8°	27 %	+ 38.9°
08-07-2010	0h13m08s	- 0°00' 45"	82°31' 10"	-6°08' 51"	-2.38 m	4.644 AE	42.5"	+ 102.7°	18 %	+ 51.8°
09-07-2010	0h13m19s	+ 0°00' 07"	83°14' 32"	-5°32' 34"	-2.38 m	4.629 AE	42.6"	+ 103.6°	11 %	+ 65.1°
10-07-2010	0h13m30s	+ 0°00' 55"	83°57' 59"	-4°56' 12"	-2.39 m	4.614 AE	42.7"	+ 104.5°	4 %	+ 78.8°
11-07-2010	0h13m39s	+ 0°01' 39"	84°41' 32"	-4°19' 44"	-2.40 m	4.599 AE	42.9"	+ 105.4°	1 %	+ 93.0°
12-07-2010	0h13m48s	+ 0°02' 19"	85°25' 12"	-3°43' 10"	-2.41 m	4.584 AE	43.0"	+ 106.3°	0 %	+ 107.5°
13-07-2010	0h13m57s	+ 0°02' 53"	86°09' 00"	-3°06' 30"	-2.41 m	4.569 AE	43.1"	+ 107.2°	1 %	+ 122.1°
14-07-2010	0h14m04s	+ 0°03' 23"	86°52' 56"	-2°29' 46"	-2.42 m	4.555 AE	43.3"	+ 108.1°	6 %	+ 136.7°
15-07-2010	0h14m11s	+ 0°03' 49"	87°37' 00"	-1°52' 57"	-2.43 m	4.540 AE	43.4"	+ 109.1°	13 %	+ 151.1°
16-07-2010	0h14m18s	+ 0°04' 10"	88°21' 13"	-1°16' 04"	-2.44 m	4.526 AE	43.6"	+ 110.0°	22 %	+ 164.7°
17-07-2010	0h14m23s	+ 0°04' 26"	89°05' 37"	-0°39' 07"	-2.44 m	4.511 AE	43.7"	+ 110.9°	33 %	+ 172.4°
18-07-2010	0h14m28s	+ 0°04' 37"	89°50' 11"	-0°02' 06"	-2.45 m	4.497 AE	43.8"	+ 111.8°	44 %	+ 163.2°
19-07-2010	0h14m32s	+ 0°04' 44"	90°34' 56"	+0°34' 58"	-2.46 m	4.482 AE	44.0"	+ 112.8°	55 %	+ 150.3°
20-07-2010	0h14m36s	+ 0°04' 47"	91°19' 52"	+1°12' 05"	-2.47 m	4.468 AE	44.1"	+ 113.7°	66 %	+ 137.2°
21-07-2010	0h14m38s	+ 0°04' 44"	92°05' 01"	+1°49' 15"	-2.47 m	4.454 AE	44.3"	+ 114.7°	75 %	+ 124.3°
22-07-2010	0h14m40s	+ 0°04' 38"	92°50' 23"	+2°26' 27"	-2.48 m	4.440 AE	44.4"	+ 115.6°	84 %	+ 111.5°
23-07-2010	0h14m41s	+ 0°04' 26"	93°35' 59"	+3°03' 41"	-2.49 m	4.426 AE	44.5"	+ 116.6°	90 %	+ 99.0°
24-07-2010	0h14m42s	+ 0°04' 10"	94°21' 50"	+3°40' 56"	-2.49 m	4.413 AE	44.7"	+ 117.5°	95 %	+ 86.5°
25-07-2010	0h14m42s	+ 0°03' 49"	95°07' 55"	+4°18' 13"	-2.50 m	4.399 AE	44.8"	+ 118.5°	98 %	+ 74.3°
26-07-2010	0h14m41s	+ 0°03' 24"	95°54' 16"	+4°55' 29"	-2.51 m	4.386 AE	45.0"	+ 119.5°	99 %	+ 62.2°
27-07-2010	0h14m39s	+ 0°02' 54"	96°40' 54"	+5°32' 46"	-2.52 m	4.372 AE	45.1"	+ 120.4°	99 %	+ 50.2°
28-07-2010	0h14m37s	+ 0°02' 19"	97°27' 49"	+6°10' 03"	-2.52 m	4.359 AE	45.2"	+ 121.4°	96 %	+ 38.4°
29-07-2010	0h14m34s	+ 0°01' 40"	98°15' 02"	+6°47' 19"	-2.53 m	4.346 AE	45.4"	+ 122.3°	92 %	+ 26.7°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 50°28'24"N
 Län.: 7°51'7"O

Objekt

Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
30-07-2010	0h14m30s	+ 0°00' 56"	99°02' 34"	+7°24' 33"	-2.54 m	4.333 AE	45.5"	+ 123.3°	87 %	+ 15.3°
31-07-2010	0h14m25s	+ 0°00' 08"	99°50' 25"	+8°01' 45"	-2.54 m	4.320 AE	45.6"	+ 124.3°	80 %	+ 6.2°
01-08-2010	0h14m20s	- 0°00' 45"	100°38' 36"	+8°38' 55"	-2.55 m	4.308 AE	45.8"	+ 125.3°	71 %	+ 11.2°
02-08-2010	0h14m14s	- 0°01' 42"	101°27' 08"	+9°16' 03"	-2.56 m	4.295 AE	45.9"	+ 126.3°	62 %	+ 22.5°
03-08-2010	0h14m08s	- 0°02' 44"	102°16' 02"	+9°53' 06"	-2.57 m	4.283 AE	46.0"	+ 127.3°	53 %	+ 34.6°
04-08-2010	0h14m00s	- 0°03' 51"	103°05' 19"	+10°30' 06"	-2.57 m	4.271 AE	46.2"	+ 128.3°	42 %	+ 47.1°
05-08-2010	0h13m52s	- 0°05' 02"	103°54' 58"	+11°07' 01"	-2.58 m	4.259 AE	46.3"	+ 129.3°	32 %	+ 60.0°
06-08-2010	0h13m43s	- 0°06' 18"	104°45' 02"	+11°43' 51"	-2.59 m	4.247 AE	46.4"	+ 130.3°	22 %	+ 73.4°
07-08-2010	0h13m34s	- 0°07' 38"	105°35' 31"	+12°20' 35"	-2.59 m	4.235 AE	46.5"	+ 131.3°	14 %	+ 87.3°
08-08-2010	0h13m24s	- 0°09' 03"	106°26' 25"	+12°57' 13"	-2.60 m	4.224 AE	46.7"	+ 132.3°	7 %	+ 101.6°
09-08-2010	0h13m13s	- 0°10' 32"	107°17' 46"	+13°33' 43"	-2.61 m	4.212 AE	46.8"	+ 133.3°	2 %	+ 116.2°
10-08-2010	0h13m01s	- 0°12' 05"	108°09' 33"	+14°10' 06"	-2.61 m	4.201 AE	46.9"	+ 134.3°	0 %	+ 131.1°
11-08-2010	0h12m49s	- 0°13' 43"	109°01' 49"	+14°46' 20"	-2.62 m	4.190 AE	47.0"	+ 135.3°	1 %	+ 145.9°
12-08-2010	0h12m36s	- 0°15' 25"	109°54' 34"	+15°22' 24"	-2.63 m	4.180 AE	47.2"	+ 136.3°	5 %	+ 160.3°
13-08-2010	0h12m22s	- 0°17' 11"	110°47' 47"	+15°58' 19"	-2.63 m	4.169 AE	47.3"	+ 137.3°	11 %	+ 171.8°
14-08-2010	0h12m08s	- 0°19' 01"	111°41' 31"	+16°34' 02"	-2.64 m	4.159 AE	47.4"	+ 138.4°	20 %	+ 166.4°
15-08-2010	0h11m53s	- 0°20' 55"	112°35' 46"	+17°09' 35"	-2.64 m	4.149 AE	47.5"	+ 139.4°	30 %	+ 153.3°
16-08-2010	0h11m37s	- 0°22' 53"	113°30' 33"	+17°44' 54"	-2.65 m	4.139 AE	47.6"	+ 140.4°	41 %	+ 139.9°
17-08-2010	0h11m21s	- 0°24' 55"	114°25' 52"	+18°20' 00"	-2.66 m	4.129 AE	47.7"	+ 141.5°	51 %	+ 126.7°
18-08-2010	0h11m04s	- 0°27' 00"	115°21' 44"	+18°54' 52"	-2.66 m	4.120 AE	47.9"	+ 142.5°	62 %	+ 113.7°
19-08-2010	0h10m46s	- 0°29' 10"	116°18' 11"	+19°29' 29"	-2.67 m	4.111 AE	48.0"	+ 143.6°	71 %	+ 101.0°
20-08-2010	0h10m28s	- 0°31' 23"	117°15' 11"	+20°03' 50"	-2.67 m	4.102 AE	48.1"	+ 144.6°	80 %	+ 88.5°
21-08-2010	0h10m10s	- 0°33' 40"	118°12' 47"	+20°37' 54"	-2.68 m	4.093 AE	48.2"	+ 145.6°	87 %	+ 76.2°
22-08-2010	0h09m50s	- 0°36' 00"	119°10' 59"	+21°11' 40"	-2.68 m	4.084 AE	48.3"	+ 146.7°	93 %	+ 64.1°
23-08-2010	0h09m30s	- 0°38' 24"	120°09' 48"	+21°45' 07"	-2.69 m	4.076 AE	48.4"	+ 147.7°	97 %	+ 52.1°
24-08-2010	0h09m10s	- 0°40' 50"	121°09' 14"	+22°18' 15"	-2.69 m	4.068 AE	48.5"	+ 148.8°	99 %	+ 40.1°
25-08-2010	0h08m49s	- 0°43' 21"	122°09' 18"	+22°51' 01"	-2.70 m	4.060 AE	48.6"	+ 149.8°	99 %	+ 28.3°
26-08-2010	0h08m28s	- 0°45' 54"	123°10' 01"	+23°23' 26"	-2.71 m	4.053 AE	48.6"	+ 150.9°	98 %	+ 16.8°
27-08-2010	0h08m06s	- 0°48' 30"	124°11' 23"	+23°55' 27"	-2.71 m	4.046 AE	48.7"	+ 152.0°	95 %	+ 6.9°
28-08-2010	0h07m43s	- 0°51' 10"	125°13' 25"	+24°27' 05"	-2.71 m	4.039 AE	48.8"	+ 153.1°	90 %	+ 10.2°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 50°28'24"N
 Län.: 7°51'7"O

Objekt

Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
29-08-2010	0h07m20s	- 0°53' 52"	126°16' 06"	+24°58' 17"	-2.72 m	4.032 AE	48.9"	+ 154.1°	84 %	+ 21.3°
30-08-2010	0h06m57s	- 0°56' 37"	127°19' 29"	+25°29' 03"	-2.72 m	4.025 AE	49.0"	+ 155.2°	77 %	+ 33.3°
31-08-2010	0h06m33s	- 0°59' 25"	128°23' 33"	+25°59' 22"	-2.73 m	4.019 AE	49.1"	+ 156.3°	68 %	+ 45.6°
01-09-2010	0h06m08s	- 1°02' 15"	129°28' 18"	+26°29' 12"	-2.73 m	4.013 AE	49.1"	+ 157.3°	58 %	+ 58.3°
02-09-2010	0h05m43s	- 1°05' 08"	130°33' 45"	+26°58' 32"	-2.74 m	4.007 AE	49.2"	+ 158.4°	48 %	+ 71.3°
03-09-2010	0h05m18s	- 1°08' 03"	131°39' 54"	+27°27' 22"	-2.74 m	4.002 AE	49.3"	+ 159.5°	37 %	+ 84.7°
04-09-2010	0h04m52s	- 1°11' 00"	132°46' 45"	+27°55' 39"	-2.74 m	3.997 AE	49.3"	+ 160.6°	27 %	+ 98.5°
05-09-2010	0h04m26s	- 1°13' 59"	133°54' 19"	+28°23' 24"	-2.75 m	3.992 AE	49.4"	+ 161.7°	17 %	+ 112.7°
06-09-2010	0h04m00s	- 1°17' 01"	135°02' 35"	+28°50' 34"	-2.75 m	3.987 AE	49.4"	+ 162.8°	9 %	+ 127.3°
07-09-2010	0h03m33s	- 1°20' 04"	136°11' 34"	+29°17' 08"	-2.76 m	3.983 AE	49.5"	+ 163.8°	3 %	+ 142.1°
08-09-2010	0h03m06s	- 1°23' 08"	137°21' 14"	+29°43' 06"	-2.76 m	3.979 AE	49.5"	+ 164.9°	0 %	+ 156.8°
09-09-2010	0h02m39s	- 1°26' 15"	138°31' 37"	+30°08' 25"	-2.76 m	3.975 AE	49.6"	+ 166.0°	0 %	+ 169.9°
10-09-2010	0h02m11s	- 1°29' 22"	139°42' 42"	+30°33' 06"	-2.77 m	3.972 AE	49.6"	+ 167.1°	3 %	+ 168.9°
11-09-2010	0h01m43s	- 1°32' 31"	140°54' 27"	+30°57' 06"	-2.77 m	3.969 AE	49.7"	+ 168.2°	9 %	+ 155.8°
12-09-2010	0h01m15s	- 1°35' 41"	142°06' 54"	+31°20' 24"	-2.77 m	3.966 AE	49.7"	+ 169.3°	17 %	+ 141.8°
13-09-2010	0h00m46s	- 1°38' 52"	143°20' 01"	+31°43' 00"	-2.77 m	3.963 AE	49.7"	+ 170.4°	26 %	+ 128.0°
14-09-2010	0h00m18s	- 1°42' 04"	144°33' 47"	+32°04' 52"	-2.78 m	3.961 AE	49.8"	+ 171.5°	36 %	+ 114.6°
15-09-2010	23h59m49s	- 1°45' 16"	145°48' 12"	+32°25' 59"	-2.78 m	3.959 AE	49.8"	+ 172.6°	46 %	+ 101.5°
16-09-2010	23h59m20s	- 1°48' 29"	147°03' 15"	+32°46' 20"	-2.78 m	3.958 AE	49.8"	+ 173.6°	56 %	+ 88.8°
17-09-2010	23h58m51s	- 1°51' 42"	148°18' 54"	+33°05' 54"	-2.78 m	3.956 AE	49.8"	+ 174.7°	66 %	+ 76.4°
18-09-2010	23h58m22s	- 1°54' 55"	149°35' 10"	+33°24' 40"	-2.78 m	3.955 AE	49.8"	+ 175.7°	75 %	+ 64.2°
19-09-2010	23h57m53s	- 1°58' 09"	150°52' 00"	+33°42' 37"	-2.78 m	3.954 AE	49.9"	+ 176.7°	83 %	+ 52.1°
20-09-2010	23h57m23s	- 2°01' 22"	152°09' 23"	+33°59' 43"	-2.79 m	3.954 AE	49.9"	+ 177.6°	89 %	+ 40.2°
21-09-2010	23h56m54s	- 2°04' 35"	153°27' 18"	+34°15' 58"	-2.79 m	3.954 AE	49.9"	+ 178.3°	94 %	+ 28.3°
22-09-2010	23h56m24s	- 2°07' 48"	154°45' 43"	+34°31' 22"	-2.79 m	3.954 AE	49.9"	+ 178.3°	97 %	+ 16.7°
23-09-2010	23h55m55s	- 2°11' 00"	156°04' 37"	+34°45' 53"	-2.79 m	3.955 AE	49.9"	+ 177.7°	99 %	+ 6.9°
24-09-2010	23h55m26s	- 2°14' 12"	157°23' 58"	+34°59' 30"	-2.78 m	3.955 AE	49.8"	+ 176.8°	99 %	+ 10.4°
25-09-2010	23h54m56s	- 2°17' 22"	158°43' 44"	+35°12' 12"	-2.78 m	3.956 AE	49.8"	+ 175.8°	97 %	+ 21.6°
26-09-2010	23h54m27s	- 2°20' 32"	160°03' 53"	+35°24' 00"	-2.78 m	3.958 AE	49.8"	+ 174.8°	93 %	+ 33.7°
27-09-2010	23h53m58s	- 2°23' 41"	161°24' 24"	+35°34' 53"	-2.78 m	3.959 AE	49.8"	+ 173.7°	88 %	+ 46.1°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 50°28'24"N
 Län.: 7°51'7"O

Objekt

Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
28-09-2010	23h53m29s	- 2°26' 49"	162°45' 14"	+35°44' 49"	-2.78 m	3.961 AE	49.8"	+ 172.7°	81 %	+ 58.7°
29-09-2010	23h53m00s	- 2°29' 55"	164°06' 20"	+35°53' 48"	-2.78 m	3.964 AE	49.7"	+ 171.6°	72 %	+ 71.5°
30-09-2010	23h52m31s	- 2°33' 00"	165°27' 42"	+36°01' 51"	-2.77 m	3.966 AE	49.7"	+ 170.5°	63 %	+ 84.7°
01-10-2010	23h52m03s	- 2°36' 03"	166°49' 16"	+36°08' 56"	-2.77 m	3.969 AE	49.7"	+ 169.4°	52 %	+ 98.0°
02-10-2010	23h51m34s	- 2°39' 04"	168°11' 00"	+36°15' 04"	-2.77 m	3.972 AE	49.6"	+ 168.3°	41 %	+ 111.7°
03-10-2010	23h51m06s	- 2°42' 04"	169°32' 52"	+36°20' 14"	-2.76 m	3.976 AE	49.6"	+ 167.2°	30 %	+ 125.7°
04-10-2010	23h50m38s	- 2°45' 01"	170°54' 49"	+36°24' 26"	-2.76 m	3.979 AE	49.5"	+ 166.1°	20 %	+ 140.0°
05-10-2010	23h50m10s	- 2°47' 57"	172°16' 48"	+36°27' 40"	-2.76 m	3.983 AE	49.5"	+ 165.0°	12 %	+ 154.3°
06-10-2010	23h49m43s	- 2°50' 50"	173°38' 49"	+36°29' 57"	-2.75 m	3.988 AE	49.4"	+ 163.9°	5 %	+ 167.9°
07-10-2010	23h49m16s	- 2°53' 40"	175°00' 47"	+36°31' 15"	-2.75 m	3.992 AE	49.4"	+ 162.8°	1 %	+ 171.1°
08-10-2010	23h48m49s	- 2°56' 28"	176°22' 40"	+36°31' 36"	-2.75 m	3.997 AE	49.3"	+ 161.7°	0 %	+ 158.6°
09-10-2010	23h48m23s	- 2°59' 13"	177°44' 26"	+36°31' 00"	-2.74 m	4.003 AE	49.3"	+ 160.6°	2 %	+ 144.3°
10-10-2010	23h47m57s	- 3°01' 55"	179°06' 03"	+36°29' 27"	-2.74 m	4.008 AE	49.2"	+ 159.4°	6 %	+ 130.1°
11-10-2010	23h47m31s	- 3°04' 35"	180°27' 28"	+36°26' 57"	-2.74 m	4.014 AE	49.1"	+ 158.3°	13 %	+ 116.2°
12-10-2010	23h47m06s	- 3°07' 11"	181°48' 39"	+36°23' 31"	-2.73 m	4.020 AE	49.0"	+ 157.3°	21 %	+ 102.7°
13-10-2010	23h46m41s	- 3°09' 44"	183°09' 33"	+36°19' 10"	-2.73 m	4.026 AE	49.0"	+ 156.2°	30 %	+ 89.6°
14-10-2010	23h46m16s	- 3°12' 13"	184°30' 09"	+36°13' 54"	-2.72 m	4.033 AE	48.9"	+ 155.1°	40 %	+ 76.8°
15-10-2010	23h45m52s	- 3°14' 39"	185°50' 24"	+36°07' 44"	-2.72 m	4.040 AE	48.8"	+ 154.0°	50 %	+ 64.5°
16-10-2010	23h45m29s	- 3°17' 02"	187°10' 16"	+36°00' 41"	-2.71 m	4.047 AE	48.7"	+ 152.9°	59 %	+ 52.3°
17-10-2010	23h45m06s	- 3°19' 21"	188°29' 43"	+35°52' 45"	-2.71 m	4.054 AE	48.6"	+ 151.8°	69 %	+ 40.3°
18-10-2010	23h44m44s	- 3°21' 37"	189°48' 44"	+35°43' 57"	-2.70 m	4.062 AE	48.5"	+ 150.7°	77 %	+ 28.6°
19-10-2010	23h44m22s	- 3°23' 48"	191°07' 16"	+35°34' 18"	-2.70 m	4.070 AE	48.4"	+ 149.6°	84 %	+ 17.0°
20-10-2010	23h44m00s	- 3°25' 56"	192°25' 19"	+35°23' 49"	-2.69 m	4.078 AE	48.3"	+ 148.5°	90 %	+ 7.1°
21-10-2010	23h43m39s	- 3°28' 00"	193°42' 50"	+35°12' 31"	-2.69 m	4.087 AE	48.2"	+ 147.4°	95 %	+ 10.1°
22-10-2010	23h43m19s	- 3°29' 59"	194°59' 48"	+35°00' 25"	-2.68 m	4.095 AE	48.1"	+ 146.3°	98 %	+ 21.3°
23-10-2010	23h43m00s	- 3°31' 55"	196°16' 11"	+34°47' 32"	-2.68 m	4.104 AE	48.0"	+ 145.3°	99 %	+ 33.4°
24-10-2010	23h42m40s	- 3°33' 46"	197°32' 00"	+34°33' 53"	-2.67 m	4.114 AE	47.9"	+ 144.2°	99 %	+ 45.8°
25-10-2010	23h42m22s	- 3°35' 33"	198°47' 11"	+34°19' 29"	-2.66 m	4.123 AE	47.8"	+ 143.1°	96 %	+ 58.5°
26-10-2010	23h42m04s	- 3°37' 16"	200°01' 46"	+34°04' 21"	-2.66 m	4.133 AE	47.7"	+ 142.0°	91 %	+ 71.4°
27-10-2010	23h41m47s	- 3°38' 55"	201°15' 41"	+33°48' 31"	-2.65 m	4.143 AE	47.6"	+ 140.9°	85 %	+ 84.5°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 50°28'24"N
 Län.: 7°51'7"O

Objekt

Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
28-10-2010	23h41m30s	- 3°40' 29"	202°28' 57"	+33°31' 59"	-2.65 m	4.153 AE	47.5"	+ 139.9°	77 %	+ 97.8°
29-10-2010	23h41m14s	- 3°41' 58"	203°41' 34"	+33°14' 47"	-2.64 m	4.163 AE	47.4"	+ 138.8°	67 %	+ 111.3°
30-10-2010	23h40m59s	- 3°43' 24"	204°53' 29"	+32°56' 56"	-2.63 m	4.174 AE	47.2"	+ 137.8°	56 %	+ 124.9°
31-10-2010	23h40m44s	- 3°44' 44"	206°04' 44"	+32°38' 27"	-2.63 m	4.184 AE	47.1"	+ 136.7°	45 %	+ 138.7°
01-11-2010	23h40m30s	- 3°46' 03"	223°19' 13"	+26°47' 15"	-2.62 m	4.196 AE	47.0"	+ 135.6°	34 %	+ 153.2°
02-11-2010	23h40m17s	- 3°47' 14"	224°21' 07"	+26°18' 40"	-2.61 m	4.207 AE	46.9"	+ 134.5°	23 %	+ 166.5°
03-11-2010	23h40m04s	- 3°48' 20"	225°22' 21"	+25°49' 44"	-2.61 m	4.218 AE	46.7"	+ 133.5°	14 %	+ 172.3°
04-11-2010	23h39m52s	- 3°49' 21"	226°22' 54"	+25°20' 27"	-2.60 m	4.230 AE	46.6"	+ 132.4°	7 %	+ 161.1°
05-11-2010	23h39m41s	- 3°50' 18"	227°22' 47"	+24°50' 51"	-2.59 m	4.242 AE	46.5"	+ 131.4°	2 %	+ 147.2°
06-11-2010	23h39m31s	- 3°51' 09"	228°22' 01"	+24°20' 58"	-2.59 m	4.254 AE	46.3"	+ 130.3°	0 %	+ 133.1°
07-11-2010	23h39m21s	- 3°51' 56"	229°20' 37"	+23°50' 47"	-2.58 m	4.266 AE	46.2"	+ 129.3°	0 %	+ 119.1°
08-11-2010	23h39m12s	- 3°52' 38"	230°18' 35"	+23°20' 20"	-2.57 m	4.278 AE	46.1"	+ 128.2°	4 %	+ 105.4°
09-11-2010	23h39m04s	- 3°53' 14"	231°15' 56"	+22°49' 37"	-2.57 m	4.291 AE	45.9"	+ 127.2°	9 %	+ 92.0°
10-11-2010	23h38m57s	- 3°53' 46"	232°12' 41"	+22°18' 41"	-2.56 m	4.304 AE	45.8"	+ 126.2°	16 %	+ 79.0°
11-11-2010	23h38m50s	- 3°54' 13"	233°08' 51"	+21°47' 31"	-2.55 m	4.317 AE	45.7"	+ 125.1°	24 %	+ 66.4°
12-11-2010	23h38m44s	- 3°54' 35"	234°04' 26"	+21°16' 09"	-2.55 m	4.330 AE	45.5"	+ 124.1°	33 %	+ 54.1°
13-11-2010	23h38m39s	- 3°54' 52"	234°59' 28"	+20°44' 36"	-2.54 m	4.343 AE	45.4"	+ 123.1°	43 %	+ 42.1°
14-11-2010	23h38m34s	- 3°55' 03"	235°53' 56"	+20°12' 51"	-2.53 m	4.356 AE	45.3"	+ 122.1°	52 %	+ 30.3°
15-11-2010	23h38m31s	- 3°55' 10"	236°47' 53"	+19°40' 56"	-2.52 m	4.370 AE	45.1"	+ 121.0°	61 %	+ 18.9°
16-11-2010	23h38m28s	- 3°55' 12"	237°41' 18"	+19°08' 53"	-2.52 m	4.383 AE	45.0"	+ 120.0°	70 %	+ 8.6°
17-11-2010	23h38m26s	- 3°55' 09"	238°34' 13"	+18°36' 40"	-2.51 m	4.397 AE	44.8"	+ 119.0°	79 %	+ 8.5°
18-11-2010	23h38m24s	- 3°55' 00"	239°26' 38"	+18°04' 20"	-2.50 m	4.411 AE	44.7"	+ 118.0°	86 %	+ 19.0°
19-11-2010	23h38m24s	- 3°54' 47"	240°18' 34"	+17°31' 53"	-2.49 m	4.425 AE	44.6"	+ 117.0°	92 %	+ 30.8°
20-11-2010	23h38m24s	- 3°54' 29"	241°10' 03"	+16°59' 19"	-2.49 m	4.439 AE	44.4"	+ 116.0°	96 %	+ 43.2°
21-11-2010	23h38m25s	- 3°54' 06"	242°01' 04"	+16°26' 40"	-2.48 m	4.454 AE	44.3"	+ 115.0°	99 %	+ 55.9°
22-11-2010	23h38m27s	- 3°53' 38"	242°51' 39"	+15°53' 55"	-2.47 m	4.468 AE	44.1"	+ 114.0°	99 %	+ 68.8°
23-11-2010	23h38m29s	- 3°53' 05"	243°41' 48"	+15°21' 06"	-2.47 m	4.483 AE	44.0"	+ 113.0°	98 %	+ 82.1°
24-11-2010	23h38m32s	- 3°52' 27"	244°31' 33"	+14°48' 13"	-2.46 m	4.497 AE	43.8"	+ 112.0°	94 %	+ 95.5°
25-11-2010	23h38m36s	- 3°51' 44"	245°20' 53"	+14°15' 16"	-2.45 m	4.512 AE	43.7"	+ 111.0°	88 %	+ 109.2°
26-11-2010	23h38m41s	- 3°50' 56"	246°09' 51"	+13°42' 17"	-2.44 m	4.527 AE	43.6"	+ 110.0°	80 %	+ 122.9°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 50°28'24"N
 Län.: 7°51'7"O

Objekt

Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
27-11-2010	23h38m46s	- 3°50' 04"	246°58' 26"	+13°09' 15"	-2.44 m	4.542 AE	43.4"	+ 109.0°	71 %	+ 136.7°
28-11-2010	23h38m53s	- 3°49' 06"	247°46' 39"	+12°36' 12"	-2.43 m	4.557 AE	43.3"	+ 108.0°	60 %	+ 150.4°
29-11-2010	23h39m00s	- 3°48' 04"	248°34' 32"	+12°03' 07"	-2.42 m	4.572 AE	43.1"	+ 107.1°	48 %	+ 163.7°
30-11-2010	23h39m07s	- 3°46' 57"	249°22' 04"	+11°30' 02"	-2.41 m	4.587 AE	43.0"	+ 106.1°	37 %	+ 172.9°
01-12-2010	23h39m16s	- 3°45' 45"	250°09' 17"	+10°56' 56"	-2.41 m	4.602 AE	42.8"	+ 105.1°	26 %	+ 164.8°
02-12-2010	23h39m25s	- 3°44' 29"	250°56' 11"	+10°23' 50"	-2.40 m	4.618 AE	42.7"	+ 104.1°	17 %	+ 151.7°
03-12-2010	23h39m35s	- 3°43' 07"	251°42' 47"	+9°50' 45"	-2.39 m	4.633 AE	42.6"	+ 103.2°	9 %	+ 138.0°
04-12-2010	23h39m45s	- 3°41' 41"	252°29' 05"	+9°17' 42"	-2.38 m	4.648 AE	42.4"	+ 102.2°	3 %	+ 124.3°
05-12-2010	23h39m57s	- 3°40' 10"	253°15' 07"	+8°44' 39"	-2.38 m	4.664 AE	42.3"	+ 101.2°	0 %	+ 110.8°
06-12-2010	23h40m09s	- 3°38' 35"	254°00' 53"	+8°11' 39"	-2.37 m	4.680 AE	42.1"	+ 100.3°	0 %	+ 97.5°
07-12-2010	23h40m22s	- 3°36' 55"	254°46' 23"	+7°38' 41"	-2.36 m	4.695 AE	42.0"	+ 99.3°	1 %	+ 84.4°
08-12-2010	23h40m35s	- 3°35' 10"	255°31' 39"	+7°05' 46"	-2.35 m	4.711 AE	41.8"	+ 98.4°	5 %	+ 71.7°
09-12-2010	23h40m50s	- 3°33' 20"	256°16' 41"	+6°32' 53"	-2.35 m	4.726 AE	41.7"	+ 97.4°	11 %	+ 59.2°
10-12-2010	23h41m04s	- 3°31' 27"	257°01' 30"	+6°00' 05"	-2.34 m	4.742 AE	41.6"	+ 96.5°	18 %	+ 47.0°
11-12-2010	23h41m20s	- 3°29' 28"	257°46' 06"	+5°27' 19"	-2.33 m	4.758 AE	41.4"	+ 95.5°	26 %	+ 35.2°
12-12-2010	23h41m37s	- 3°27' 25"	258°30' 29"	+4°54' 38"	-2.33 m	4.774 AE	41.3"	+ 94.6°	35 %	+ 23.6°
13-12-2010	23h41m54s	- 3°25' 18"	259°14' 42"	+4°22' 01"	-2.32 m	4.790 AE	41.2"	+ 93.7°	44 %	+ 12.7°
14-12-2010	23h42m11s	- 3°23' 07"	259°58' 43"	+3°49' 29"	-2.31 m	4.805 AE	41.0"	+ 92.7°	53 %	+ 6.2°
15-12-2010	23h42m30s	- 3°20' 51"	260°42' 34"	+3°17' 01"	-2.30 m	4.821 AE	40.9"	+ 91.8°	63 %	+ 13.9°
16-12-2010	23h42m49s	- 3°18' 31"	261°26' 16"	+2°44' 39"	-2.30 m	4.837 AE	40.8"	+ 90.9°	71 %	+ 25.1°
17-12-2010	23h43m09s	- 3°16' 07"	262°09' 48"	+2°12' 22"	-2.29 m	4.853 AE	40.6"	+ 89.9°	80 %	+ 37.1°
18-12-2010	23h43m29s	- 3°13' 38"	262°53' 12"	+1°40' 11"	-2.28 m	4.869 AE	40.5"	+ 89.0°	87 %	+ 49.4°
19-12-2010	23h43m50s	- 3°11' 06"	263°36' 28"	+1°08' 06"	-2.28 m	4.885 AE	40.4"	+ 88.1°	93 %	+ 62.2°
20-12-2010	23h44m12s	- 3°08' 29"	264°19' 36"	+0°36' 08"	-2.27 m	4.900 AE	40.2"	+ 87.2°	97 %	+ 75.3°
21-12-2010	23h44m34s	- 3°05' 49"	265°02' 38"	+0°04' 15"	-2.26 m	4.916 AE	40.1"	+ 86.3°	99 %	+ 88.8°
22-12-2010	23h44m57s	- 3°03' 04"	265°45' 34"	-0°27' 29"	-2.25 m	4.932 AE	40.0"	+ 85.3°	99 %	+ 102.7°
23-12-2010	23h45m21s	- 3°00' 15"	266°28' 23"	-0°59' 08"	-2.25 m	4.948 AE	39.8"	+ 84.5°	96 %	+ 116.7°
24-12-2010	23h45m45s	- 2°57' 23"	267°11' 08"	-1°30' 39"	-2.24 m	4.964 AE	39.7"	+ 83.5°	91 %	+ 130.8°
25-12-2010	23h46m10s	- 2°54' 27"	267°53' 48"	-2°02' 03"	-2.23 m	4.979 AE	39.6"	+ 82.6°	83 %	+ 144.9°
26-12-2010	23h46m35s	- 2°51' 27"	268°36' 23"	-2°33' 19"	-2.23 m	4.995 AE	39.5"	+ 81.7°	74 %	+ 158.7°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 50°28'24"N
 Län.: 7°51'7"O

Objekt

Planet:
 Jupiter

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
27-12-2010	23h47m01s	- 2°48' 23"	269° 18' 55"	-3°04' 27"	-2.22 m	5.011 AE	39.3"	+ 80.8°	63 %	+ 170.8°
28-12-2010	23h47m27s	- 2°45' 15"	270°01' 24"	-3°35' 27"	-2.21 m	5.026 AE	39.2"	+ 79.9°	52 %	+ 169.3°
29-12-2010	23h47m55s	- 2°42' 04"	270°43' 49"	-4°06' 19"	-2.21 m	5.042 AE	39.1"	+ 79.0°	41 %	+ 157.0°
30-12-2010	23h48m22s	- 2°38' 49"	271°26' 13"	-4°37' 01"	-2.20 m	5.057 AE	39.0"	+ 78.2°	30 %	+ 143.8°
31-12-2010	23h48m51s	- 2°35' 30"	272°08' 35"	-5°07' 35"	-2.19 m	5.073 AE	38.9"	+ 77.3°	20 %	+ 130.4°