

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 1°3'13"S
 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-01-2010	9h29m56s	+18°44' 48"	110°53' 46"	+39°57' 33"	-0.76 m	0.739 AE	12.7"	+ 141.4°	99 %	+ 36.2°
02-01-2010	9h29m20s	+18°50' 09"	111°55' 11"	+40°42' 00"	-0.79 m	0.734 AE	12.8"	+ 142.6°	98 %	+ 21.1°
03-01-2010	9h28m42s	+18°55' 44"	112°58' 13"	+41°26' 50"	-0.81 m	0.729 AE	12.9"	+ 143.8°	93 %	+ 8.1°
04-01-2010	9h28m00s	+19°01' 32"	114°02' 57"	+42°12' 02"	-0.84 m	0.724 AE	12.9"	+ 145.0°	85 %	+ 12.5°
05-01-2010	9h27m14s	+19°07' 32"	115°09' 27"	+42°57' 33"	-0.86 m	0.719 AE	13.0"	+ 146.2°	76 %	+ 26.4°
06-01-2010	9h26m26s	+19°13' 45"	116°17' 49"	+43°43' 21"	-0.88 m	0.715 AE	13.1"	+ 147.4°	66 %	+ 40.5°
07-01-2010	9h25m34s	+19°20' 10"	117°28' 10"	+44°29' 24"	-0.91 m	0.711 AE	13.2"	+ 148.6°	55 %	+ 54.4°
08-01-2010	9h24m39s	+19°26' 46"	118°40' 37"	+45°15' 39"	-0.93 m	0.706 AE	13.3"	+ 149.9°	44 %	+ 67.9°
09-01-2010	9h23m41s	+19°33' 32"	119°55' 14"	+46°02' 02"	-0.95 m	0.702 AE	13.3"	+ 151.1°	34 %	+ 81.1°
10-01-2010	9h22m39s	+19°40' 28"	121°12' 11"	+46°48' 30"	-0.97 m	0.699 AE	13.4"	+ 152.4°	24 %	+ 94.0°
11-01-2010	9h21m35s	+19°47' 33"	122°31' 33"	+47°34' 58"	-0.99 m	0.695 AE	13.5"	+ 153.7°	16 %	+ 106.6°
12-01-2010	9h20m27s	+19°54' 47"	123°53' 28"	+48°21' 24"	-1.02 m	0.691 AE	13.5"	+ 154.9°	10 %	+ 119.0°
13-01-2010	9h19m17s	+20°02' 07"	125°18' 04"	+49°07' 43"	-1.04 m	0.688 AE	13.6"	+ 156.3°	4 %	+ 131.3°
14-01-2010	9h18m04s	+20°09' 35"	126°45' 29"	+49°53' 49"	-1.06 m	0.685 AE	13.7"	+ 157.6°	1 %	+ 143.3°
15-01-2010	9h16m48s	+20°17' 07"	128°15' 50"	+50°39' 37"	-1.08 m	0.682 AE	13.7"	+ 158.9°	0 %	+ 155.2°
16-01-2010	9h15m29s	+20°24' 45"	129°49' 17"	+51°25' 03"	-1.10 m	0.679 AE	13.8"	+ 160.2°	0 %	+ 166.6°
17-01-2010	9h14m08s	+20°32' 26"	131°25' 56"	+52°09' 59"	-1.12 m	0.677 AE	13.8"	+ 161.5°	2 %	+ 174.0°
18-01-2010	9h12m45s	+20°40' 09"	133°05' 57"	+52°54' 21"	-1.14 m	0.675 AE	13.9"	+ 162.8°	6 %	+ 166.6°
19-01-2010	9h11m19s	+20°47' 54"	134°49' 26"	+53°38' 00"	-1.15 m	0.673 AE	13.9"	+ 164.1°	11 %	+ 155.2°
20-01-2010	9h09m51s	+20°55' 40"	136°36' 32"	+54°20' 52"	-1.17 m	0.671 AE	14.0"	+ 165.4°	18 %	+ 143.2°
21-01-2010	9h08m21s	+21°03' 24"	138°27' 21"	+55°02' 47"	-1.19 m	0.669 AE	14.0"	+ 166.8°	26 %	+ 131.1°
22-01-2010	9h06m50s	+21°11' 08"	140°21' 59"	+55°43' 39"	-1.20 m	0.668 AE	14.0"	+ 168.1°	35 %	+ 118.6°
23-01-2010	9h05m17s	+21°18' 48"	142°20' 31"	+56°23' 21"	-1.22 m	0.667 AE	14.1"	+ 169.3°	45 %	+ 105.8°
24-01-2010	9h03m43s	+21°26' 25"	144°23' 03"	+57°01' 43"	-1.23 m	0.666 AE	14.1"	+ 170.6°	55 %	+ 92.7°
25-01-2010	9h02m07s	+21°33' 56"	146°29' 36"	+57°38' 39"	-1.25 m	0.665 AE	14.1"	+ 171.8°	65 %	+ 79.1°
26-01-2010	9h00m30s	+21°41' 22"	148°40' 11"	+58°13' 59"	-1.26 m	0.664 AE	14.1"	+ 172.9°	75 %	+ 65.0°
27-01-2010	8h58m53s	+21°48' 42"	150°54' 48"	+58°47' 37"	-1.27 m	0.664 AE	14.1"	+ 173.9°	84 %	+ 50.4°
28-01-2010	8h57m14s	+21°55' 54"	153°13' 22"	+59°19' 23"	-1.28 m	0.664 AE	14.1"	+ 174.8°	92 %	+ 35.4°
29-01-2010	8h55m36s	+22°02' 57"	155°35' 48"	+59°49' 10"	-1.28 m	0.664 AE	14.1"	+ 175.3°	97 %	+ 20.3°
30-01-2010	8h53m57s	+22°09' 51"	158°01' 57"	+60°16' 50"	-1.28 m	0.664 AE	14.1"	+ 175.5°	99 %	+ 7.5°

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 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
31-01-2010	8h52m18s	+22°16' 35"	160°31' 38"	+60°42' 16"	-1.27 m	0.665 AE	14.1"	+ 175.2°	99 %	+ 14.2°
01-02-2010	8h50m38s	+22°23' 08"	163°04' 35"	+61°05' 20"	-1.26 m	0.666 AE	14.1"	+ 174.6°	95 %	+ 29.1°
02-02-2010	8h49m00s	+22°29' 30"	165°40' 30"	+61°25' 58"	-1.25 m	0.667 AE	14.0"	+ 173.7°	89 %	+ 44.2°
03-02-2010	8h47m21s	+22°35' 40"	168°19' 01"	+61°44' 03"	-1.24 m	0.668 AE	14.0"	+ 172.6°	81 %	+ 59.0°
04-02-2010	8h45m44s	+22°41' 37"	170°59' 44"	+61°59' 30"	-1.22 m	0.670 AE	14.0"	+ 171.4°	71 %	+ 73.4°
05-02-2010	8h44m07s	+22°47' 21"	173°42' 12"	+62°12' 17"	-1.20 m	0.671 AE	14.0"	+ 170.3°	60 %	+ 87.3°
06-02-2010	8h42m31s	+22°52' 52"	176°25' 54"	+62°22' 20"	-1.18 m	0.673 AE	13.9"	+ 169.0°	50 %	+ 100.7°
07-02-2010	8h40m56s	+22°58' 08"	179°10' 19"	+62°29' 37"	-1.16 m	0.676 AE	13.9"	+ 167.7°	40 %	+ 113.7°
08-02-2010	8h39m23s	+23°03' 09"	181°54' 55"	+62°34' 09"	-1.14 m	0.678 AE	13.8"	+ 166.4°	30 %	+ 126.4°
09-02-2010	8h37m52s	+23°07' 56"	184°39' 08"	+62°35' 56"	-1.12 m	0.681 AE	13.8"	+ 165.1°	22 %	+ 138.7°
10-02-2010	8h36m22s	+23°12' 28"	187°22' 25"	+62°35' 00"	-1.10 m	0.683 AE	13.7"	+ 163.8°	14 %	+ 150.8°
11-02-2010	8h34m54s	+23°16' 44"	190°04' 16"	+62°31' 25"	-1.08 m	0.686 AE	13.6"	+ 162.5°	8 %	+ 162.6°
12-02-2010	8h33m28s	+23°20' 44"	192°44' 09"	+62°25' 14"	-1.06 m	0.690 AE	13.6"	+ 161.2°	4 %	+ 173.1°
13-02-2010	8h32m04s	+23°24' 29"	195°21' 37"	+62°16' 33"	-1.03 m	0.693 AE	13.5"	+ 159.9°	1 %	+ 171.0°
14-02-2010	8h30m43s	+23°27' 57"	197°56' 16"	+62°05' 28"	-1.01 m	0.697 AE	13.4"	+ 158.6°	0 %	+ 159.9°
15-02-2010	8h29m24s	+23°31' 10"	200°27' 43"	+61°52' 06"	-0.98 m	0.701 AE	13.4"	+ 157.3°	0 %	+ 148.2°
16-02-2010	8h28m08s	+23°34' 07"	202°55' 40"	+61°36' 33"	-0.96 m	0.705 AE	13.3"	+ 156.1°	3 %	+ 136.2°
17-02-2010	8h26m54s	+23°36' 48"	205°19' 51"	+61°18' 57"	-0.94 m	0.709 AE	13.2"	+ 154.8°	7 %	+ 124.1°
18-02-2010	8h25m43s	+23°39' 14"	207°40' 05"	+60°59' 27"	-0.91 m	0.713 AE	13.1"	+ 153.6°	13 %	+ 111.8°
19-02-2010	8h24m36s	+23°41' 24"	209°56' 12"	+60°38' 10"	-0.88 m	0.718 AE	13.0"	+ 152.3°	20 %	+ 99.3°
20-02-2010	8h23m31s	+23°43' 19"	212°08' 08"	+60°15' 14"	-0.86 m	0.723 AE	13.0"	+ 151.1°	29 %	+ 86.7°
21-02-2010	8h22m29s	+23°44' 58"	214°15' 48"	+59°50' 47"	-0.83 m	0.728 AE	12.9"	+ 149.8°	38 %	+ 73.7°
22-02-2010	8h21m31s	+23°46' 23"	216°19' 13"	+59°24' 57"	-0.81 m	0.733 AE	12.8"	+ 148.6°	49 %	+ 60.4°
23-02-2010	8h20m35s	+23°47' 33"	218°18' 23"	+58°57' 52"	-0.78 m	0.738 AE	12.7"	+ 147.4°	60 %	+ 46.6°
24-02-2010	8h19m43s	+23°48' 29"	220°13' 22"	+58°29' 38"	-0.75 m	0.743 AE	12.6"	+ 146.2°	70 %	+ 32.6°
25-02-2010	8h18m55s	+23°49' 11"	222°04' 13"	+58°00' 23"	-0.73 m	0.749 AE	12.5"	+ 145.1°	80 %	+ 18.3°
26-02-2010	8h18m09s	+23°49' 39"	223°51' 04"	+57°30' 13"	-0.70 m	0.755 AE	12.4"	+ 143.9°	89 %	+ 6.1°
27-02-2010	8h17m27s	+23°49' 53"	225°34' 01"	+56°59' 14"	-0.67 m	0.761 AE	12.3"	+ 142.7°	95 %	+ 14.2°
28-02-2010	8h16m48s	+23°49' 55"	227°13' 11"	+56°27' 32"	-0.65 m	0.767 AE	12.2"	+ 141.6°	99 %	+ 29.1°
01-03-2010	8h16m13s	+23°49' 44"	228°48' 42"	+55°55' 13"	-0.62 m	0.773 AE	12.1"	+ 140.5°	99 %	+ 44.4°

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 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
02-03-2010	8h15m41s	+23°49' 21"	230°20' 43"	+55°22' 20"	-0.59 m	0.779 AE	12.0"	+ 139.3°	97 %	+ 59.5°
03-03-2010	8h15m12s	+23°48' 46"	231°49' 21"	+54°49' 00"	-0.57 m	0.786 AE	11.9"	+ 138.3°	92 %	+ 74.3°
04-03-2010	8h14m46s	+23°47' 59"	233°14' 45"	+54°15' 15"	-0.54 m	0.792 AE	11.8"	+ 137.2°	85 %	+ 88.7°
05-03-2010	8h14m24s	+23°47' 01"	234°37' 02"	+53°41' 10"	-0.51 m	0.799 AE	11.7"	+ 136.1°	76 %	+ 102.5°
06-03-2010	8h14m05s	+23°45' 51"	235°56' 22"	+53°06' 48"	-0.49 m	0.806 AE	11.6"	+ 135.0°	67 %	+ 115.8°
07-03-2010	8h13m50s	+23°44' 31"	237°12' 52"	+52°32' 13"	-0.46 m	0.813 AE	11.5"	+ 134.0°	57 %	+ 128.7°
08-03-2010	8h13m37s	+23°43' 00"	238°26' 39"	+51°57' 27"	-0.43 m	0.820 AE	11.4"	+ 132.9°	47 %	+ 141.1°
09-03-2010	8h13m28s	+23°41' 18"	239°37' 51"	+51°22' 34"	-0.41 m	0.827 AE	11.3"	+ 131.9°	37 %	+ 153.1°
10-03-2010	8h13m22s	+23°39' 26"	240°46' 36"	+50°47' 35"	-0.38 m	0.834 AE	11.2"	+ 130.9°	28 %	+ 164.8°
11-03-2010	8h13m19s	+23°37' 24"	241°52' 59"	+50°12' 33"	-0.35 m	0.842 AE	11.1"	+ 129.9°	20 %	+ 175.0°
12-03-2010	8h13m19s	+23°35' 13"	242°57' 08"	+49°37' 30"	-0.33 m	0.849 AE	11.0"	+ 128.9°	13 %	+ 170.4°
13-03-2010	8h13m23s	+23°32' 52"	243°59' 09"	+49°02' 28"	-0.30 m	0.857 AE	10.9"	+ 128.0°	7 %	+ 159.3°
14-03-2010	8h13m29s	+23°30' 21"	244°59' 07"	+48°27' 28"	-0.27 m	0.865 AE	10.8"	+ 127.0°	3 %	+ 147.7°
15-03-2010	8h13m39s	+23°27' 41"	245°57' 09"	+47°52' 32"	-0.25 m	0.872 AE	10.7"	+ 126.1°	0 %	+ 136.0°
16-03-2010	8h13m51s	+23°24' 53"	246°53' 20"	+47°17' 40"	-0.22 m	0.880 AE	10.6"	+ 125.1°	0 %	+ 124.2°
17-03-2010	8h14m06s	+23°21' 55"	247°47' 46"	+46°42' 55"	-0.20 m	0.888 AE	10.5"	+ 124.2°	1 %	+ 112.2°
18-03-2010	8h14m25s	+23°18' 49"	248°40' 30"	+46°08' 17"	-0.17 m	0.896 AE	10.5"	+ 123.3°	4 %	+ 100.0°
19-03-2010	8h14m46s	+23°15' 34"	249°31' 39"	+45°33' 46"	-0.15 m	0.904 AE	10.4"	+ 122.4°	9 %	+ 87.7°
20-03-2010	8h15m09s	+23°12' 11"	250°21' 16"	+44°59' 24"	-0.12 m	0.912 AE	10.3"	+ 121.5°	16 %	+ 75.1°
21-03-2010	8h15m36s	+23°08' 39"	251°09' 25"	+44°25' 11"	-0.10 m	0.921 AE	10.2"	+ 120.6°	24 %	+ 62.3°
22-03-2010	8h16m05s	+23°05' 00"	251°56' 12"	+43°51' 08"	-0.07 m	0.929 AE	10.1"	+ 119.8°	34 %	+ 49.3°
23-03-2010	8h16m37s	+23°01' 13"	252°41' 38"	+43°17' 15"	-0.05 m	0.937 AE	10.00"	+ 118.9°	44 %	+ 36.0°
24-03-2010	8h17m11s	+22°57' 17"	253°25' 49"	+42°43' 32"	-0.02 m	0.946 AE	9.91"	+ 118.1°	55 %	+ 22.4°
25-03-2010	8h17m48s	+22°53' 15"	254°08' 48"	+42°10' 00"	0.00 m	0.954 AE	9.82"	+ 117.2°	66 %	+ 9.3°
26-03-2010	8h18m28s	+22°49' 04"	254°50' 38"	+41°36' 39"	0.02 m	0.963 AE	9.73"	+ 116.4°	77 %	+ 8.3°
27-03-2010	8h19m09s	+22°44' 47"	255°31' 22"	+41°03' 28"	0.05 m	0.971 AE	9.65"	+ 115.6°	86 %	+ 21.8°
28-03-2010	8h19m53s	+22°40' 22"	256°11' 04"	+40°30' 29"	0.07 m	0.980 AE	9.56"	+ 114.8°	93 %	+ 36.3°
29-03-2010	8h20m38s	+22°36' 01"	241°54' 05"	+48°54' 31"	0.09 m	0.988 AE	9.48"	+ 114.0°	97 %	+ 50.5°
30-03-2010	8h21m26s	+22°31' 22"	242°41' 54"	+48°24' 19"	0.12 m	0.997 AE	9.40"	+ 113.2°	99 %	+ 65.2°
31-03-2010	8h22m16s	+22°26' 36"	243°28' 20"	+47°54' 09"	0.14 m	1.005 AE	9.32"	+ 112.4°	98 %	+ 79.6°

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	RA	Dek							Phase	Winkel
01-04-2010	8h23m09s	+22°21' 43"	244°13' 29"	+47°24' 03"	0.16 m	1.014 AE	9.24"	+ 111.7°	95 %	+ 93.7°
02-04-2010	8h24m04s	+22°16' 43"	244°57' 22"	+46°53' 59"	0.18 m	1.023 AE	9.16"	+ 110.9°	89 %	+ 107.3°
03-04-2010	8h25m00s	+22°11' 36"	245°40' 04"	+46°23' 59"	0.20 m	1.032 AE	9.08"	+ 110.2°	82 %	+ 120.4°
04-04-2010	8h25m59s	+22°06' 22"	246°21' 37"	+45°54' 03"	0.23 m	1.041 AE	9.00"	+ 109.4°	73 %	+ 133.1°
05-04-2010	8h26m59s	+22°01' 01"	247°02' 05"	+45°24' 10"	0.25 m	1.050 AE	8.93"	+ 108.7°	64 %	+ 145.3°
06-04-2010	8h28m02s	+21°55' 34"	247°41' 29"	+44°54' 22"	0.27 m	1.059 AE	8.85"	+ 108.0°	54 %	+ 157.1°
07-04-2010	8h29m06s	+21°49' 59"	248°19' 53"	+44°24' 38"	0.29 m	1.067 AE	8.78"	+ 107.2°	45 %	+ 168.5°
08-04-2010	8h30m12s	+21°44' 18"	248°57' 19"	+43°54' 59"	0.31 m	1.076 AE	8.70"	+ 106.5°	35 %	+ 176.3°
09-04-2010	8h31m20s	+21°38' 30"	249°33' 48"	+43°25' 25"	0.33 m	1.085 AE	8.63"	+ 105.8°	27 %	+ 167.5°
10-04-2010	8h32m29s	+21°32' 35"	250°09' 25"	+42°55' 55"	0.35 m	1.094 AE	8.56"	+ 105.1°	19 %	+ 156.3°
11-04-2010	8h33m40s	+21°26' 33"	250°44' 10"	+42°26' 30"	0.37 m	1.104 AE	8.49"	+ 104.4°	12 %	+ 144.9°
12-04-2010	8h34m53s	+21°20' 25"	251°18' 05"	+41°57' 09"	0.39 m	1.113 AE	8.42"	+ 103.8°	6 %	+ 133.4°
13-04-2010	8h36m07s	+21°14' 09"	251°51' 13"	+41°27' 54"	0.41 m	1.122 AE	8.35"	+ 103.1°	2 %	+ 121.6°
14-04-2010	8h37m23s	+21°07' 47"	252°23' 36"	+40°58' 43"	0.43 m	1.131 AE	8.28"	+ 102.4°	0 %	+ 109.6°
15-04-2010	8h38m40s	+21°01' 18"	252°55' 14"	+40°29' 37"	0.45 m	1.140 AE	8.22"	+ 101.8°	0 %	+ 97.4°
16-04-2010	8h39m59s	+20°54' 43"	253°26' 11"	+40°00' 35"	0.47 m	1.149 AE	8.15"	+ 101.1°	2 %	+ 85.0°
17-04-2010	8h41m19s	+20°48' 01"	253°56' 26"	+39°31' 38"	0.49 m	1.158 AE	8.09"	+ 100.5°	6 %	+ 72.3°
18-04-2010	8h42m41s	+20°41' 12"	254°26' 03"	+39°02' 46"	0.51 m	1.167 AE	8.03"	+ 99.8°	12 %	+ 59.4°
19-04-2010	8h44m04s	+20°34' 16"	254°55' 02"	+38°33' 58"	0.52 m	1.176 AE	7.96"	+ 99.2°	20 %	+ 46.3°
20-04-2010	8h45m28s	+20°27' 13"	255°23' 25"	+38°05' 14"	0.54 m	1.186 AE	7.90"	+ 98.5°	29 %	+ 33.0°
21-04-2010	8h46m54s	+20°20' 04"	255°51' 13"	+37°36' 34"	0.56 m	1.195 AE	7.84"	+ 97.9°	40 %	+ 19.8°
22-04-2010	8h48m20s	+20°12' 49"	256°18' 29"	+37°07' 58"	0.58 m	1.204 AE	7.78"	+ 97.3°	51 %	+ 7.4°
23-04-2010	8h49m48s	+20°05' 26"	256°45' 12"	+36°39' 25"	0.59 m	1.213 AE	7.72"	+ 96.7°	63 %	+ 10.0°
24-04-2010	8h51m17s	+19°57' 58"	257°11' 24"	+36°10' 57"	0.61 m	1.222 AE	7.67"	+ 96.1°	73 %	+ 23.3°
25-04-2010	8h52m48s	+19°50' 22"	257°37' 06"	+35°42' 31"	0.63 m	1.231 AE	7.61"	+ 95.5°	83 %	+ 37.2°
26-04-2010	8h54m19s	+19°42' 41"	258°02' 21"	+35°14' 10"	0.64 m	1.240 AE	7.55"	+ 94.9°	91 %	+ 51.3°
27-04-2010	8h55m51s	+19°34' 53"	258°27' 07"	+34°45' 51"	0.66 m	1.249 AE	7.50"	+ 94.3°	96 %	+ 65.3°
28-04-2010	8h57m25s	+19°26' 58"	258°51' 27"	+34°17' 35"	0.68 m	1.259 AE	7.44"	+ 93.7°	99 %	+ 79.2°
29-04-2010	8h58m59s	+19°18' 57"	259°15' 22"	+33°49' 22"	0.69 m	1.268 AE	7.39"	+ 93.2°	99 %	+ 92.8°
30-04-2010	9h00m34s	+19°10' 49"	259°38' 52"	+33°21' 11"	0.71 m	1.277 AE	7.34"	+ 92.6°	97 %	+ 106.0°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 1°3'13"S
 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-05-2010	9h02m11s	+19°02' 36"	260°01' 59"	+32°53' 03"	0.72 m	1.286 AE	7.29"	+ 92.0°	93 %	+ 118.9°
02-05-2010	9h03m48s	+18°54' 15"	260°24' 42"	+32°24' 57"	0.74 m	1.295 AE	7.23"	+ 91.5°	87 %	+ 131.4°
03-05-2010	9h05m26s	+18°45' 48"	260°47' 03"	+31°56' 54"	0.76 m	1.304 AE	7.18"	+ 90.9°	79 %	+ 143.5°
04-05-2010	9h07m05s	+18°37' 15"	261°09' 03"	+31°28' 52"	0.77 m	1.313 AE	7.13"	+ 90.3°	71 %	+ 155.3°
05-05-2010	9h08m45s	+18°28' 36"	261°30' 41"	+31°00' 53"	0.79 m	1.322 AE	7.09"	+ 89.8°	62 %	+ 166.6°
06-05-2010	9h10m25s	+18°19' 50"	261°52' 00"	+30°32' 55"	0.80 m	1.331 AE	7.04"	+ 89.3°	52 %	+ 175.9°
07-05-2010	9h12m07s	+18°10' 57"	262°12' 59"	+30°04' 59"	0.81 m	1.340 AE	6.99"	+ 88.7°	43 %	+ 169.4°
08-05-2010	9h13m49s	+18°01' 59"	262°33' 38"	+29°37' 05"	0.83 m	1.349 AE	6.94"	+ 88.2°	33 %	+ 158.5°
09-05-2010	9h15m32s	+17°52' 53"	262°54' 00"	+29°09' 11"	0.84 m	1.358 AE	6.90"	+ 87.6°	25 %	+ 147.2°
10-05-2010	9h17m15s	+17°43' 42"	263°14' 03"	+28°41' 20"	0.86 m	1.367 AE	6.85"	+ 87.1°	17 %	+ 135.7°
11-05-2010	9h19m00s	+17°34' 24"	263°33' 49"	+28°13' 29"	0.87 m	1.376 AE	6.81"	+ 86.6°	10 %	+ 123.9°
12-05-2010	9h20m45s	+17°24' 59"	263°53' 18"	+27°45' 40"	0.88 m	1.385 AE	6.76"	+ 86.1°	5 %	+ 111.9°
13-05-2010	9h22m31s	+17°15' 28"	264°12' 32"	+27°17' 51"	0.90 m	1.394 AE	6.72"	+ 85.5°	1 %	+ 99.6°
14-05-2010	9h24m17s	+17°05' 51"	264°31' 29"	+26°50' 04"	0.91 m	1.403 AE	6.68"	+ 85.0°	0 %	+ 87.0°
15-05-2010	9h26m05s	+16°56' 08"	264°50' 11"	+26°22' 17"	0.92 m	1.412 AE	6.64"	+ 84.5°	0 %	+ 74.0°
16-05-2010	9h27m52s	+16°46' 18"	265°08' 38"	+25°54' 31"	0.94 m	1.420 AE	6.60"	+ 84.0°	4 %	+ 60.9°
17-05-2010	9h29m41s	+16°36' 22"	265°26' 50"	+25°26' 45"	0.95 m	1.429 AE	6.55"	+ 83.5°	9 %	+ 47.5°
18-05-2010	9h31m30s	+16°26' 20"	265°44' 49"	+24°59' 00"	0.96 m	1.438 AE	6.51"	+ 83.0°	17 %	+ 34.1°
19-05-2010	9h33m19s	+16°16' 11"	266°02' 35"	+24°31' 15"	0.97 m	1.447 AE	6.48"	+ 82.5°	27 %	+ 20.7°
20-05-2010	9h35m10s	+16°05' 57"	266°20' 08"	+24°03' 30"	0.98 m	1.455 AE	6.44"	+ 82.0°	37 %	+ 8.4°
21-05-2010	9h37m00s	+15°55' 36"	266°37' 28"	+23°35' 45"	1.00 m	1.464 AE	6.40"	+ 81.5°	49 %	+ 9.5°
22-05-2010	9h38m52s	+15°45' 10"	266°54' 36"	+23°08' 00"	1.01 m	1.473 AE	6.36"	+ 81.1°	60 %	+ 22.1°
23-05-2010	9h40m43s	+15°34' 37"	267°11' 32"	+22°40' 16"	1.02 m	1.482 AE	6.32"	+ 80.6°	71 %	+ 35.5°
24-05-2010	9h42m36s	+15°23' 59"	267°28' 18"	+22°12' 30"	1.03 m	1.490 AE	6.29"	+ 80.1°	81 %	+ 49.0°
25-05-2010	9h44m28s	+15°13' 14"	267°44' 52"	+21°44' 45"	1.04 m	1.499 AE	6.25"	+ 79.6°	89 %	+ 62.4°
26-05-2010	9h46m21s	+15°02' 24"	268°01' 16"	+21°16' 59"	1.05 m	1.507 AE	6.21"	+ 79.2°	94 %	+ 75.7°
27-05-2010	9h48m15s	+14°51' 28"	268°17' 30"	+20°49' 13"	1.06 m	1.516 AE	6.18"	+ 78.7°	98 %	+ 88.8°
28-05-2010	9h50m09s	+14°40' 27"	268°33' 34"	+20°21' 26"	1.07 m	1.524 AE	6.15"	+ 78.2°	99 %	+ 101.6°
29-05-2010	9h52m04s	+14°29' 20"	268°49' 29"	+19°53' 38"	1.08 m	1.533 AE	6.11"	+ 77.8°	98 %	+ 114.2°
30-05-2010	9h53m59s	+14°18' 07"	269°05' 14"	+19°25' 50"	1.09 m	1.541 AE	6.08"	+ 77.3°	95 %	+ 126.4°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 1°3'13"S
 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
31-05-2010	9h55m54s	+14°06' 48"	269°20' 50"	+18°58' 01"	1.10 m	1.550 AE	6.05"	+ 76.8°	91 %	+ 138.3°
01-06-2010	9h57m50s	+13°55' 24"	269°36' 17"	+18°30' 11"	1.11 m	1.558 AE	6.01"	+ 76.4°	84 %	+ 150.0°
02-06-2010	9h59m46s	+13°43' 54"	269°51' 36"	+18°02' 20"	1.12 m	1.566 AE	5.98"	+ 76.0°	77 %	+ 161.3°
03-06-2010	10h01m42s	+13°32' 18"	270°06' 47"	+17°34' 29"	1.13 m	1.575 AE	5.95"	+ 75.5°	68 %	+ 172.0°
04-06-2010	10h03m39s	+13°20' 37"	270°21' 49"	+17°06' 37"	1.14 m	1.583 AE	5.92"	+ 75.0°	59 %	+ 173.8°
05-06-2010	10h05m37s	+13°08' 51"	270°36' 43"	+16°38' 43"	1.15 m	1.591 AE	5.89"	+ 74.6°	50 %	+ 163.7°
06-06-2010	10h07m34s	+12°56' 59"	270°51' 30"	+16°10' 49"	1.16 m	1.599 AE	5.86"	+ 74.2°	40 %	+ 152.6°
07-06-2010	10h09m32s	+12°45' 01"	271°06' 09"	+15°42' 54"	1.17 m	1.608 AE	5.83"	+ 73.7°	31 %	+ 141.1°
08-06-2010	10h11m31s	+12°32' 58"	271°20' 40"	+15°14' 58"	1.18 m	1.616 AE	5.80"	+ 73.3°	22 %	+ 129.4°
09-06-2010	10h13m29s	+12°20' 50"	271°35' 05"	+14°47' 01"	1.19 m	1.624 AE	5.77"	+ 72.9°	14 %	+ 117.3°
10-06-2010	10h15m28s	+12°08' 37"	271°49' 22"	+14°19' 03"	1.20 m	1.632 AE	5.74"	+ 72.4°	7 %	+ 105.0°
11-06-2010	10h17m28s	+11°56' 18"	272°03' 33"	+13°51' 04"	1.21 m	1.640 AE	5.71"	+ 72.0°	3 %	+ 92.2°
12-06-2010	10h19m28s	+11°43' 54"	272°17' 36"	+13°23' 04"	1.21 m	1.648 AE	5.68"	+ 71.6°	0 %	+ 79.0°
13-06-2010	10h21m28s	+11°31' 25"	272°31' 34"	+12°55' 03"	1.22 m	1.656 AE	5.66"	+ 71.2°	0 %	+ 65.6°
14-06-2010	10h23m28s	+11°18' 50"	272°45' 25"	+12°27' 01"	1.23 m	1.664 AE	5.63"	+ 70.7°	2 %	+ 51.9°
15-06-2010	10h25m29s	+11°06' 11"	272°59' 10"	+11°58' 58"	1.24 m	1.672 AE	5.60"	+ 70.3°	7 %	+ 38.1°
16-06-2010	10h27m30s	+10°53' 27"	273°12' 49"	+11°30' 54"	1.25 m	1.679 AE	5.58"	+ 69.9°	15 %	+ 24.4°
17-06-2010	10h29m31s	+10°40' 37"	273°26' 22"	+11°02' 49"	1.25 m	1.687 AE	5.55"	+ 69.5°	24 %	+ 11.6°
18-06-2010	10h31m33s	+10°27' 43"	273°39' 50"	+10°34' 43"	1.26 m	1.695 AE	5.53"	+ 69.1°	35 %	+ 7.5°
19-06-2010	10h33m35s	+10°14' 44"	273°53' 12"	+10°06' 36"	1.27 m	1.703 AE	5.50"	+ 68.7°	47 %	+ 18.9°
20-06-2010	10h35m37s	+10°01' 41"	274°06' 30"	+9°38' 28"	1.28 m	1.710 AE	5.48"	+ 68.3°	58 %	+ 31.9°
21-06-2010	10h37m39s	+ 9°48' 33"	274°19' 42"	+9°10' 19"	1.28 m	1.718 AE	5.45"	+ 67.8°	69 %	+ 45.0°
22-06-2010	10h39m42s	+ 9°35' 20"	274°32' 50"	+8°42' 09"	1.29 m	1.726 AE	5.43"	+ 67.4°	78 %	+ 57.9°
23-06-2010	10h41m45s	+ 9°22' 03"	274°45' 52"	+8°13' 58"	1.30 m	1.733 AE	5.40"	+ 67.0°	86 %	+ 70.7°
24-06-2010	10h43m48s	+ 9°08' 42"	274°58' 51"	+7°45' 46"	1.30 m	1.741 AE	5.38"	+ 66.6°	93 %	+ 83.3°
25-06-2010	10h45m52s	+ 8°55' 16"	275°11' 45"	+7°17' 33"	1.31 m	1.748 AE	5.36"	+ 66.2°	97 %	+ 95.7°
26-06-2010	10h47m55s	+ 8°41' 46"	275°24' 34"	+6°49' 19"	1.32 m	1.756 AE	5.34"	+ 65.8°	99 %	+ 107.8°
27-06-2010	10h49m59s	+ 8°28' 12"	275°37' 19"	+6°21' 04"	1.32 m	1.763 AE	5.31"	+ 65.5°	99 %	+ 119.8°
28-06-2010	10h52m04s	+ 8°14' 34"	275°50' 01"	+5°52' 48"	1.33 m	1.770 AE	5.29"	+ 65.0°	97 %	+ 131.5°
29-06-2010	10h54m08s	+ 8°00' 51"	276°02' 38"	+5°24' 32"	1.34 m	1.778 AE	5.27"	+ 64.7°	94 %	+ 143.0°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 1°3'13"S
 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
30-06-2010	10h56m13s	+ 7° 47 ' 04"	276° 15 ' 11"	+4° 56 ' 15"	1.34 m	1.785 AE	5.25"	+ 64.3°	89 %	+ 154.3°
01-07-2010	10h58m18s	+ 7° 33 ' 14"	276° 27 ' 40"	+4° 27 ' 57"	1.35 m	1.792 AE	5.23"	+ 63.9°	82 %	+ 165.3°
02-07-2010	11h00m23s	+ 7° 19 ' 19"	276° 40 ' 05"	+3° 59 ' 38"	1.35 m	1.799 AE	5.21"	+ 63.5°	74 %	+ 174.6°
03-07-2010	11h02m29s	+ 7° 05 ' 21"	276° 52 ' 27"	+3° 31 ' 19"	1.36 m	1.806 AE	5.19"	+ 63.1°	66 %	+ 170.2°
04-07-2010	11h04m34s	+ 6° 51 ' 19"	277° 04 ' 44"	+3° 03 ' 00"	1.37 m	1.813 AE	5.17"	+ 62.7°	56 %	+ 159.6°
05-07-2010	11h06m40s	+ 6° 37 ' 13"	277° 16 ' 58"	+2° 34 ' 40"	1.37 m	1.820 AE	5.15"	+ 62.4°	47 %	+ 148.3°
06-07-2010	11h08m47s	+ 6° 23 ' 03"	277° 29 ' 08"	+2° 06 ' 19"	1.38 m	1.827 AE	5.13"	+ 62.0°	37 %	+ 136.6°
07-07-2010	11h10m53s	+ 6° 08 ' 49"	277° 41 ' 15"	+1° 37 ' 58"	1.38 m	1.834 AE	5.11"	+ 61.6°	27 %	+ 124.6°
08-07-2010	11h13m00s	+ 5° 54 ' 32"	277° 53 ' 18"	+1° 09 ' 37"	1.39 m	1.841 AE	5.09"	+ 61.2°	18 %	+ 112.2°
09-07-2010	11h15m07s	+ 5° 40 ' 12"	278° 05 ' 17"	+0° 41 ' 16"	1.39 m	1.848 AE	5.07"	+ 60.8°	11 %	+ 99.4°
10-07-2010	11h17m14s	+ 5° 25 ' 47"	278° 17 ' 13"	+0° 12 ' 55"	1.40 m	1.855 AE	5.05"	+ 60.5°	4 %	+ 86.1°
11-07-2010	11h19m22s	+ 5° 11 ' 20"	278° 29 ' 06"	-0° 15 ' 25"	1.40 m	1.862 AE	5.03"	+ 60.1°	1 %	+ 72.5°
12-07-2010	11h21m30s	+ 4° 56 ' 49"	278° 40 ' 55"	-0° 43 ' 47"	1.41 m	1.868 AE	5.01"	+ 59.7°	0 %	+ 58.6°
13-07-2010	11h23m38s	+ 4° 42 ' 15"	278° 52 ' 40"	-1° 12 ' 08"	1.41 m	1.875 AE	5.00"	+ 59.4°	1 %	+ 44.5°
14-07-2010	11h25m46s	+ 4° 27 ' 38"	279° 04 ' 23"	-1° 40 ' 29"	1.41 m	1.882 AE	4.98"	+ 59.0°	6 %	+ 30.4°
15-07-2010	11h27m55s	+ 4° 12 ' 58"	279° 16 ' 02"	-2° 08 ' 50"	1.42 m	1.888 AE	4.96"	+ 58.6°	13 %	+ 16.9°
16-07-2010	11h30m04s	+ 3° 58 ' 14"	279° 27 ' 38"	-2° 37 ' 10"	1.42 m	1.895 AE	4.94"	+ 58.3°	22 %	+ 6.8°
17-07-2010	11h32m13s	+ 3° 43 ' 28"	279° 39 ' 11"	-3° 05 ' 30"	1.43 m	1.901 AE	4.93"	+ 57.9°	33 %	+ 13.9°
18-07-2010	11h34m22s	+ 3° 28 ' 40"	279° 50 ' 41"	-3° 33 ' 49"	1.43 m	1.908 AE	4.91"	+ 57.5°	44 %	+ 26.5°
19-07-2010	11h36m32s	+ 3° 13 ' 48"	280° 02 ' 08"	-4° 02 ' 08"	1.44 m	1.914 AE	4.89"	+ 57.2°	55 %	+ 39.3°
20-07-2010	11h38m42s	+ 2° 58 ' 54"	280° 13 ' 33"	-4° 30 ' 26"	1.44 m	1.921 AE	4.88"	+ 56.8°	66 %	+ 52.0°
21-07-2010	11h40m52s	+ 2° 43 ' 57"	280° 24 ' 55"	-4° 58 ' 44"	1.44 m	1.927 AE	4.86"	+ 56.5°	75 %	+ 64.4°
22-07-2010	11h43m03s	+ 2° 28 ' 58"	280° 36 ' 14"	-5° 27 ' 00"	1.45 m	1.933 AE	4.85"	+ 56.1°	84 %	+ 76.7°
23-07-2010	11h45m13s	+ 2° 13 ' 57"	280° 47 ' 30"	-5° 55 ' 16"	1.45 m	1.939 AE	4.83"	+ 55.7°	90 %	+ 88.7°
24-07-2010	11h47m24s	+ 1° 58 ' 54"	280° 58 ' 44"	-6° 23 ' 31"	1.45 m	1.946 AE	4.82"	+ 55.4°	95 %	+ 100.5°
25-07-2010	11h49m35s	+ 1° 43 ' 48"	281° 09 ' 55"	-6° 51 ' 45"	1.46 m	1.952 AE	4.80"	+ 55.0°	98 %	+ 112.2°
26-07-2010	11h51m47s	+ 1° 28 ' 40"	281° 21 ' 03"	-7° 19 ' 57"	1.46 m	1.958 AE	4.79"	+ 54.7°	99 %	+ 123.7°
27-07-2010	11h53m59s	+ 1° 13 ' 30"	281° 32 ' 09"	-7° 48 ' 08"	1.46 m	1.964 AE	4.77"	+ 54.3°	99 %	+ 135.0°
28-07-2010	11h56m11s	+ 0° 58 ' 18"	281° 43 ' 12"	-8° 16 ' 18"	1.47 m	1.970 AE	4.76"	+ 54.0°	96 %	+ 146.3°
29-07-2010	11h58m23s	+ 0° 43 ' 05"	281° 54 ' 12"	-8° 44 ' 26"	1.47 m	1.976 AE	4.74"	+ 53.6°	92 %	+ 157.4°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 1°3'13"S
 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
30-07-2010	12h00m36s	+ 0°27' 49"	282°05' 10"	-9°12' 33"	1.47 m	1.981 AE	4.73"	+ 53.3°	87 %	+ 168.1°
31-07-2010	12h02m49s	+ 0°12' 32"	282°16' 05"	-9°40' 38"	1.47 m	1.987 AE	4.71"	+ 52.9°	80 %	+ 175.2°
01-08-2010	12h05m02s	- 0°02' 46"	282°26' 57"	-10°08' 41"	1.48 m	1.993 AE	4.70"	+ 52.6°	71 %	+ 167.3°
02-08-2010	12h07m16s	- 0°18' 06"	282°37' 46"	-10°36' 42"	1.48 m	1.999 AE	4.69"	+ 52.2°	62 %	+ 156.3°
03-08-2010	12h09m30s	- 0°33' 28"	282°48' 33"	-11°04' 41"	1.48 m	2.005 AE	4.67"	+ 51.9°	53 %	+ 144.7°
04-08-2010	12h11m44s	- 0°48' 51"	282°59' 17"	-11°32' 37"	1.49 m	2.010 AE	4.66"	+ 51.5°	42 %	+ 132.8°
05-08-2010	12h13m58s	- 1°04' 16"	283°09' 58"	-12°00' 32"	1.49 m	2.016 AE	4.65"	+ 51.2°	32 %	+ 120.5°
06-08-2010	12h16m13s	- 1°19' 42"	283°20' 36"	-12°28' 23"	1.49 m	2.021 AE	4.63"	+ 50.9°	22 %	+ 107.7°
07-08-2010	12h18m28s	- 1°35' 08"	283°31' 11"	-12°56' 13"	1.49 m	2.027 AE	4.62"	+ 50.5°	14 %	+ 94.5°
08-08-2010	12h20m44s	- 1°50' 36"	283°41' 44"	-13°23' 59"	1.49 m	2.032 AE	4.61"	+ 50.2°	7 %	+ 80.9°
09-08-2010	12h23m00s	- 2°06' 05"	283°52' 13"	-13°51' 43"	1.50 m	2.038 AE	4.60"	+ 49.9°	2 %	+ 66.9°
10-08-2010	12h25m16s	- 2°21' 35"	284°02' 40"	-14°19' 24"	1.50 m	2.043 AE	4.59"	+ 49.5°	0 %	+ 52.6°
11-08-2010	12h27m32s	- 2°37' 06"	284°13' 03"	-14°47' 01"	1.50 m	2.048 AE	4.57"	+ 49.2°	1 %	+ 38.3°
12-08-2010	12h29m49s	- 2°52' 37"	284°23' 24"	-15°14' 35"	1.50 m	2.054 AE	4.56"	+ 48.9°	5 %	+ 24.3°
13-08-2010	12h32m07s	- 3°08' 08"	284°33' 42"	-15°42' 06"	1.50 m	2.059 AE	4.55"	+ 48.5°	11 %	+ 11.2°
14-08-2010	12h34m24s	- 3°23' 41"	284°43' 57"	-16°09' 34"	1.50 m	2.064 AE	4.54"	+ 48.2°	20 %	+ 7.9°
15-08-2010	12h36m42s	- 3°39' 13"	284°54' 10"	-16°36' 58"	1.51 m	2.069 AE	4.53"	+ 47.9°	30 %	+ 19.3°
16-08-2010	12h39m00s	- 3°54' 45"	285°04' 19"	-17°04' 18"	1.51 m	2.074 AE	4.52"	+ 47.5°	41 %	+ 32.0°
17-08-2010	12h41m19s	- 4°10' 18"	285°14' 26"	-17°31' 34"	1.51 m	2.079 AE	4.51"	+ 47.2°	51 %	+ 44.5°
18-08-2010	12h43m38s	- 4°25' 50"	285°24' 30"	-17°58' 47"	1.51 m	2.084 AE	4.49"	+ 46.9°	62 %	+ 56.8°
19-08-2010	12h45m58s	- 4°41' 22"	285°34' 31"	-18°25' 55"	1.51 m	2.089 AE	4.48"	+ 46.5°	71 %	+ 68.8°
20-08-2010	12h48m18s	- 4°56' 54"	285°44' 29"	-18°52' 59"	1.51 m	2.094 AE	4.47"	+ 46.2°	80 %	+ 80.6°
21-08-2010	12h50m38s	- 5°12' 26"	285°54' 25"	-19°19' 59"	1.51 m	2.099 AE	4.46"	+ 45.9°	87 %	+ 92.2°
22-08-2010	12h52m58s	- 5°27' 57"	286°04' 18"	-19°46' 54"	1.51 m	2.104 AE	4.45"	+ 45.6°	93 %	+ 103.6°
23-08-2010	12h55m19s	- 5°43' 27"	286°14' 08"	-20°13' 44"	1.52 m	2.108 AE	4.44"	+ 45.2°	97 %	+ 115.0°
24-08-2010	12h57m41s	- 5°58' 57"	286°23' 55"	-20°40' 30"	1.52 m	2.113 AE	4.43"	+ 44.9°	99 %	+ 126.2°
25-08-2010	13h00m02s	- 6°14' 26"	286°33' 39"	-21°07' 11"	1.52 m	2.118 AE	4.42"	+ 44.6°	99 %	+ 137.4°
26-08-2010	13h02m25s	- 6°29' 54"	286°43' 20"	-21°33' 46"	1.52 m	2.122 AE	4.41"	+ 44.3°	98 %	+ 148.6°
27-08-2010	13h04m47s	- 6°45' 21"	286°52' 58"	-22°00' 17"	1.52 m	2.127 AE	4.40"	+ 44.0°	95 %	+ 159.7°
28-08-2010	13h07m10s	- 7°00' 46"	287°02' 33"	-22°26' 42"	1.52 m	2.131 AE	4.40"	+ 43.6°	90 %	+ 170.5°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 1°3'13"S
 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
29-08-2010	13h09m34s	- 7°16' 11"	287°12' 05"	-22°53' 01"	1.52 m	2.136 AE	4.39"	+ 43.3°	84 %	+ 174.7°
30-08-2010	13h11m58s	- 7°31' 34"	287°21' 33"	-23°19' 15"	1.52 m	2.140 AE	4.38"	+ 43.0°	77 %	+ 164.8°
31-08-2010	13h14m22s	- 7°46' 56"	287°30' 59"	-23°45' 23"	1.52 m	2.145 AE	4.37"	+ 42.7°	68 %	+ 153.4°
01-09-2010	13h16m47s	- 8°02' 16"	287°40' 21"	-24°11' 25"	1.52 m	2.149 AE	4.36"	+ 42.4°	58 %	+ 141.5°
02-09-2010	13h19m12s	- 8°17' 35"	287°49' 39"	-24°37' 21"	1.52 m	2.153 AE	4.35"	+ 42.0°	48 %	+ 129.2°
03-09-2010	13h21m38s	- 8°32' 51"	287°58' 55"	-25°03' 11"	1.52 m	2.157 AE	4.34"	+ 41.7°	37 %	+ 116.6°
04-09-2010	13h24m04s	- 8°48' 06"	288°08' 06"	-25°28' 54"	1.52 m	2.162 AE	4.33"	+ 41.4°	27 %	+ 103.5°
05-09-2010	13h26m31s	- 9°03' 19"	288°17' 15"	-25°54' 30"	1.52 m	2.166 AE	4.33"	+ 41.1°	17 %	+ 90.0°
06-09-2010	13h28m58s	- 9°18' 29"	288°26' 20"	-26°20' 00"	1.52 m	2.170 AE	4.32"	+ 40.8°	9 %	+ 76.2°
07-09-2010	13h31m26s	- 9°33' 38"	288°35' 21"	-26°45' 23"	1.52 m	2.174 AE	4.31"	+ 40.5°	3 %	+ 62.0°
08-09-2010	13h33m54s	- 9°48' 44"	288°44' 18"	-27°10' 38"	1.52 m	2.178 AE	4.30"	+ 40.2°	0 %	+ 47.7°
09-09-2010	13h36m23s	-10°03' 47"	288°53' 12"	-27°35' 46"	1.52 m	2.182 AE	4.29"	+ 39.9°	0 %	+ 33.4°
10-09-2010	13h38m52s	-10°18' 47"	289°02' 03"	-28°00' 47"	1.52 m	2.186 AE	4.29"	+ 39.5°	3 %	+ 19.4°
11-09-2010	13h41m22s	-10°33' 45"	289°10' 50"	-28°25' 41"	1.52 m	2.190 AE	4.28"	+ 39.2°	9 %	+ 7.2°
12-09-2010	13h43m52s	-10°48' 40"	289°19' 33"	-28°50' 26"	1.52 m	2.193 AE	4.27"	+ 38.9°	17 %	+ 10.6°
13-09-2010	13h46m23s	-11°03' 31"	289°28' 13"	-29°15' 04"	1.52 m	2.197 AE	4.26"	+ 38.6°	26 %	+ 22.9°
14-09-2010	13h48m54s	-11°18' 19"	289°36' 50"	-29°39' 34"	1.52 m	2.201 AE	4.26"	+ 38.3°	36 %	+ 35.4°
15-09-2010	13h51m26s	-11°33' 04"	289°45' 23"	-30°03' 55"	1.52 m	2.205 AE	4.25"	+ 38.0°	46 %	+ 47.7°
16-09-2010	13h53m58s	-11°47' 45"	289°53' 52"	-30°28' 08"	1.51 m	2.208 AE	4.24"	+ 37.7°	56 %	+ 59.6°
17-09-2010	13h56m31s	-12°02' 22"	290°02' 18"	-30°52' 13"	1.51 m	2.212 AE	4.24"	+ 37.4°	66 %	+ 71.3°
18-09-2010	13h59m05s	-12°16' 55"	290°10' 41"	-31°16' 09"	1.51 m	2.215 AE	4.23"	+ 37.1°	75 %	+ 82.7°
19-09-2010	14h01m39s	-12°31' 25"	290°19' 00"	-31°39' 57"	1.51 m	2.219 AE	4.22"	+ 36.8°	83 %	+ 94.0°
20-09-2010	14h04m13s	-12°45' 50"	290°27' 16"	-32°03' 35"	1.51 m	2.222 AE	4.22"	+ 36.5°	89 %	+ 105.3°
21-09-2010	14h06m48s	-13°00' 11"	290°35' 28"	-32°27' 05"	1.51 m	2.226 AE	4.21"	+ 36.2°	94 %	+ 116.5°
22-09-2010	14h09m24s	-13°14' 27"	290°43' 36"	-32°50' 25"	1.51 m	2.229 AE	4.20"	+ 35.9°	97 %	+ 127.7°
23-09-2010	14h12m00s	-13°28' 39"	290°51' 41"	-33°13' 36"	1.51 m	2.232 AE	4.20"	+ 35.6°	99 %	+ 138.9°
24-09-2010	14h14m37s	-13°42' 46"	290°59' 43"	-33°36' 37"	1.51 m	2.235 AE	4.19"	+ 35.3°	99 %	+ 150.3°
25-09-2010	14h17m15s	-13°56' 48"	291°07' 41"	-33°59' 29"	1.51 m	2.239 AE	4.18"	+ 35.0°	97 %	+ 161.6°
26-09-2010	14h19m52s	-14°10' 45"	291°15' 35"	-34°22' 11"	1.50 m	2.242 AE	4.18"	+ 34.7°	93 %	+ 172.7°
27-09-2010	14h22m31s	-14°24' 37"	291°23' 26"	-34°44' 42"	1.50 m	2.245 AE	4.17"	+ 34.4°	88 %	+ 173.7°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 1°3'13"S
 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
28-09-2010	14h25m10s	-14°38' 24"	291°31' 13"	-35°07' 04"	1.50 m	2.248 AE	4.17"	+ 34.1°	81 %	+ 162.5°
29-09-2010	14h27m50s	-14°52' 05"	291°38' 56"	-35°29' 15"	1.50 m	2.251 AE	4.16"	+ 33.8°	72 %	+ 150.5°
30-09-2010	14h30m30s	-15°05' 41"	291°46' 36"	-35°51' 15"	1.50 m	2.254 AE	4.16"	+ 33.5°	63 %	+ 138.2°
01-10-2010	14h33m11s	-15°19' 10"	291°54' 13"	-36°13' 05"	1.50 m	2.257 AE	4.15"	+ 33.2°	52 %	+ 125.6°
02-10-2010	14h35m53s	-15°32' 34"	292°01' 45"	-36°34' 44"	1.49 m	2.260 AE	4.14"	+ 32.9°	41 %	+ 112.7°
03-10-2010	14h38m35s	-15°45' 52"	292°09' 15"	-36°56' 12"	1.49 m	2.263 AE	4.14"	+ 32.6°	30 %	+ 99.4°
04-10-2010	14h41m18s	-15°59' 03"	292°16' 40"	-37°17' 28"	1.49 m	2.266 AE	4.13"	+ 32.3°	20 %	+ 85.8°
05-10-2010	14h44m02s	-16°12' 09"	292°24' 02"	-37°38' 34"	1.49 m	2.269 AE	4.13"	+ 32.0°	12 %	+ 71.9°
06-10-2010	14h46m46s	-16°25' 07"	292°31' 21"	-37°59' 28"	1.49 m	2.271 AE	4.12"	+ 31.7°	5 %	+ 57.8°
07-10-2010	14h49m31s	-16°37' 59"	292°38' 36"	-38°20' 10"	1.49 m	2.274 AE	4.12"	+ 31.4°	1 %	+ 43.6°
08-10-2010	14h52m16s	-16°50' 43"	292°45' 48"	-38°40' 40"	1.48 m	2.277 AE	4.11"	+ 31.1°	0 %	+ 29.6°
09-10-2010	14h55m02s	-17°03' 21"	292°52' 56"	-39°00' 58"	1.48 m	2.279 AE	4.11"	+ 30.8°	2 %	+ 15.9°
10-10-2010	14h57m49s	-17°15' 51"	293°00' 02"	-39°21' 05"	1.48 m	2.282 AE	4.11"	+ 30.5°	6 %	+ 4.4°
11-10-2010	15h00m36s	-17°28' 14"	293°07' 05"	-39°40' 59"	1.48 m	2.285 AE	4.10"	+ 30.2°	13 %	+ 12.2°
12-10-2010	15h03m24s	-17°40' 29"	293°14' 04"	-40°00' 40"	1.48 m	2.287 AE	4.10"	+ 29.9°	21 %	+ 24.6°
13-10-2010	15h06m13s	-17°52' 37"	293°21' 02"	-40°20' 10"	1.47 m	2.289 AE	4.09"	+ 29.6°	30 %	+ 36.9°
14-10-2010	15h09m02s	-18°04' 36"	293°27' 56"	-40°39' 26"	1.47 m	2.292 AE	4.09"	+ 29.4°	40 %	+ 48.9°
15-10-2010	15h11m52s	-18°16' 28"	293°34' 48"	-40°58' 30"	1.47 m	2.294 AE	4.08"	+ 29.1°	50 %	+ 60.5°
16-10-2010	15h14m43s	-18°28' 10"	293°41' 38"	-41°17' 22"	1.47 m	2.297 AE	4.08"	+ 28.8°	59 %	+ 72.0°
17-10-2010	15h17m34s	-18°39' 45"	293°48' 26"	-41°36' 00"	1.46 m	2.299 AE	4.07"	+ 28.5°	69 %	+ 83.2°
18-10-2010	15h20m26s	-18°51' 10"	293°55' 11"	-41°54' 25"	1.46 m	2.301 AE	4.07"	+ 28.2°	77 %	+ 94.4°
19-10-2010	15h23m19s	-19°02' 27"	294°01' 55"	-42°12' 37"	1.46 m	2.303 AE	4.07"	+ 27.9°	84 %	+ 105.6°
20-10-2010	15h26m12s	-19°13' 35"	294°08' 37"	-42°30' 35"	1.46 m	2.306 AE	4.06"	+ 27.6°	90 %	+ 116.8°
21-10-2010	15h29m06s	-19°24' 34"	294°15' 17"	-42°48' 20"	1.45 m	2.308 AE	4.06"	+ 27.4°	95 %	+ 128.1°
22-10-2010	15h32m00s	-19°35' 23"	294°21' 56"	-43°05' 52"	1.45 m	2.310 AE	4.06"	+ 27.1°	98 %	+ 139.6°
23-10-2010	15h34m56s	-19°46' 03"	294°28' 33"	-43°23' 10"	1.45 m	2.312 AE	4.05"	+ 26.8°	99 %	+ 151.3°
24-10-2010	15h37m51s	-19°56' 33"	294°35' 09"	-43°40' 13"	1.45 m	2.314 AE	4.05"	+ 26.5°	99 %	+ 163.0°
25-10-2010	15h40m48s	-20°06' 53"	294°41' 44"	-43°57' 03"	1.44 m	2.316 AE	4.05"	+ 26.2°	96 %	+ 174.8°
26-10-2010	15h43m45s	-20°17' 03"	294°48' 19"	-44°13' 39"	1.44 m	2.318 AE	4.04"	+ 25.9°	91 %	+ 172.4°
27-10-2010	15h46m43s	-20°27' 03"	294°54' 52"	-44°30' 01"	1.44 m	2.320 AE	4.04"	+ 25.6°	85 %	+ 160.1°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 1°3'13"S
 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
28-10-2010	15h49m41s	-20°36' 53"	295°01' 25"	-44°46' 08"	1.44 m	2.322 AE	4.04"	+ 25.4°	77 %	+ 147.6°
29-10-2010	15h52m40s	-20°46' 32"	295°07' 58"	-45°02' 01"	1.43 m	2.324 AE	4.03"	+ 25.1°	67 %	+ 134.8°
30-10-2010	15h55m40s	-20°56' 00"	295°14' 31"	-45°17' 39"	1.43 m	2.325 AE	4.03"	+ 24.8°	56 %	+ 121.9°
31-10-2010	15h58m41s	-21°05' 18"	295°21' 03"	-45°33' 03"	1.43 m	2.327 AE	4.03"	+ 24.5°	45 %	+ 108.7°
01-11-2010	16h01m49s	-21°14' 46"	313°26' 57"	-53°41' 23"	1.42 m	2.329 AE	4.02"	+ 24.2°	34 %	+ 94.7°
02-11-2010	16h04m51s	-21°23' 41"	313°38' 16"	-53°55' 27"	1.42 m	2.331 AE	4.02"	+ 23.9°	23 %	+ 81.1°
03-11-2010	16h07m53s	-21°32' 24"	313°49' 35"	-54°09' 16"	1.42 m	2.332 AE	4.02"	+ 23.7°	14 %	+ 67.3°
04-11-2010	16h10m56s	-21°40' 56"	314°00' 56"	-54°22' 49"	1.41 m	2.334 AE	4.01"	+ 23.4°	7 %	+ 53.5°
05-11-2010	16h14m00s	-21°49' 16"	314°12' 18"	-54°36' 07"	1.41 m	2.336 AE	4.01"	+ 23.1°	2 %	+ 39.8°
06-11-2010	16h17m04s	-21°57' 24"	314°23' 41"	-54°49' 10"	1.41 m	2.337 AE	4.01"	+ 22.8°	0 %	+ 26.2°
07-11-2010	16h20m09s	-22°05' 20"	314°35' 06"	-55°01' 57"	1.41 m	2.339 AE	4.01"	+ 22.6°	0 %	+ 12.9°
08-11-2010	16h23m14s	-22°13' 03"	314°46' 34"	-55°14' 28"	1.40 m	2.340 AE	4.00"	+ 22.3°	4 %	+ 2.1°
09-11-2010	16h26m20s	-22°20' 34"	314°58' 03"	-55°26' 44"	1.40 m	2.342 AE	4.00"	+ 22.0°	9 %	+ 13.2°
10-11-2010	16h29m27s	-22°27' 53"	315°09' 35"	-55°38' 43"	1.40 m	2.343 AE	4.00"	+ 21.7°	16 %	+ 25.4°
11-11-2010	16h32m34s	-22°34' 59"	315°21' 10"	-55°50' 27"	1.39 m	2.344 AE	4.00"	+ 21.4°	24 %	+ 37.3°
12-11-2010	16h35m42s	-22°41' 52"	315°32' 48"	-56°01' 55"	1.39 m	2.346 AE	3.99"	+ 21.2°	33 %	+ 49.0°
13-11-2010	16h38m51s	-22°48' 32"	315°44' 29"	-56°13' 07"	1.39 m	2.347 AE	3.99"	+ 20.9°	43 %	+ 60.4°
14-11-2010	16h41m59s	-22°54' 58"	315°56' 15"	-56°24' 03"	1.38 m	2.348 AE	3.99"	+ 20.6°	52 %	+ 71.5°
15-11-2010	16h45m09s	-23°01' 11"	316°08' 04"	-56°34' 43"	1.38 m	2.350 AE	3.99"	+ 20.4°	61 %	+ 82.7°
16-11-2010	16h48m19s	-23°07' 11"	316°19' 57"	-56°45' 06"	1.38 m	2.351 AE	3.98"	+ 20.1°	70 %	+ 93.8°
17-11-2010	16h51m29s	-23°12' 57"	316°31' 56"	-56°55' 13"	1.37 m	2.352 AE	3.98"	+ 19.8°	79 %	+ 105.0°
18-11-2010	16h54m40s	-23°18' 30"	316°43' 59"	-57°05' 04"	1.37 m	2.353 AE	3.98"	+ 19.6°	86 %	+ 116.4°
19-11-2010	16h57m52s	-23°23' 48"	316°56' 07"	-57°14' 38"	1.37 m	2.354 AE	3.98"	+ 19.3°	92 %	+ 128.0°
20-11-2010	17h01m04s	-23°28' 52"	317°08' 21"	-57°23' 56"	1.36 m	2.355 AE	3.98"	+ 19.0°	96 %	+ 139.8°
21-11-2010	17h04m17s	-23°33' 43"	317°20' 40"	-57°32' 58"	1.36 m	2.357 AE	3.98"	+ 18.8°	99 %	+ 151.8°
22-11-2010	17h07m29s	-23°38' 18"	317°33' 06"	-57°41' 42"	1.36 m	2.358 AE	3.97"	+ 18.5°	99 %	+ 164.2°
23-11-2010	17h10m43s	-23°42' 40"	317°45' 37"	-57°50' 11"	1.35 m	2.359 AE	3.97"	+ 18.2°	98 %	+ 176.8°
24-11-2010	17h13m57s	-23°46' 47"	317°58' 15"	-57°58' 22"	1.35 m	2.360 AE	3.97"	+ 17.9°	94 %	+ 170.3°
25-11-2010	17h17m11s	-23°50' 39"	318°11' 00"	-58°06' 17"	1.34 m	2.361 AE	3.97"	+ 17.7°	88 %	+ 157.3°
26-11-2010	17h20m26s	-23°54' 16"	318°23' 52"	-58°13' 55"	1.34 m	2.362 AE	3.97"	+ 17.4°	80 %	+ 144.2°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 1°3'13"S
 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
27-11-2010	17h23m41s	-23°57' 39"	318°36' 52"	-58°21' 16"	1.34 m	2.362 AE	3.97"	+ 17.1°	71 %	+ 131.0°
28-11-2010	17h26m57s	-24°00' 46"	318°49' 59"	-58°28' 20"	1.33 m	2.363 AE	3.96"	+ 16.9°	60 %	+ 117.7°
29-11-2010	17h30m13s	-24°03' 38"	319°03' 13"	-58°35' 07"	1.33 m	2.364 AE	3.96"	+ 16.6°	48 %	+ 104.3°
30-11-2010	17h33m29s	-24°06' 15"	319°16' 36"	-58°41' 38"	1.33 m	2.365 AE	3.96"	+ 16.4°	37 %	+ 90.9°
01-12-2010	17h36m46s	-24°08' 37"	319°30' 07"	-58°47' 51"	1.32 m	2.366 AE	3.96"	+ 16.1°	26 %	+ 77.5°
02-12-2010	17h40m03s	-24°10' 43"	319°43' 47"	-58°53' 47"	1.32 m	2.367 AE	3.96"	+ 15.8°	17 %	+ 64.2°
03-12-2010	17h43m21s	-24°12' 33"	319°57' 36"	-58°59' 27"	1.32 m	2.367 AE	3.96"	+ 15.6°	9 %	+ 50.9°
04-12-2010	17h46m38s	-24°14' 09"	320°11' 34"	-59°04' 49"	1.31 m	2.368 AE	3.96"	+ 15.3°	3 %	+ 37.7°
05-12-2010	17h49m57s	-24°15' 28"	320°25' 42"	-59°09' 54"	1.31 m	2.369 AE	3.95"	+ 15.0°	0 %	+ 24.8°
06-12-2010	17h53m15s	-24°16' 31"	320°40' 00"	-59°14' 43"	1.30 m	2.369 AE	3.95"	+ 14.8°	0 %	+ 12.0°
07-12-2010	17h56m34s	-24°17' 19"	320°54' 29"	-59°19' 14"	1.30 m	2.370 AE	3.95"	+ 14.5°	1 %	+ 0.4°
08-12-2010	17h59m53s	-24°17' 51"	321°09' 07"	-59°23' 28"	1.30 m	2.371 AE	3.95"	+ 14.3°	5 %	+ 12.6°
09-12-2010	18h03m12s	-24°18' 07"	321°23' 57"	-59°27' 26"	1.29 m	2.371 AE	3.95"	+ 14.0°	11 %	+ 24.4°
10-12-2010	18h06m31s	-24°18' 07"	321°38' 58"	-59°31' 06"	1.29 m	2.372 AE	3.95"	+ 13.8°	18 %	+ 36.0°
11-12-2010	18h09m51s	-24°17' 50"	321°54' 10"	-59°34' 30"	1.29 m	2.372 AE	3.95"	+ 13.5°	26 %	+ 47.4°
12-12-2010	18h13m11s	-24°17' 18"	322°09' 34"	-59°37' 36"	1.28 m	2.373 AE	3.95"	+ 13.2°	35 %	+ 58.5°
13-12-2010	18h16m31s	-24°16' 30"	322°25' 10"	-59°40' 26"	1.28 m	2.373 AE	3.95"	+ 13.0°	44 %	+ 69.6°
14-12-2010	18h19m51s	-24°15' 25"	322°40' 58"	-59°42' 59"	1.27 m	2.374 AE	3.95"	+ 12.7°	53 %	+ 80.7°
15-12-2010	18h23m11s	-24°14' 04"	322°56' 59"	-59°45' 15"	1.27 m	2.374 AE	3.95"	+ 12.5°	63 %	+ 91.8°
16-12-2010	18h26m31s	-24°12' 27"	323°13' 12"	-59°47' 15"	1.27 m	2.375 AE	3.94"	+ 12.2°	71 %	+ 103.2°
17-12-2010	18h29m52s	-24°10' 34"	323°29' 37"	-59°48' 57"	1.26 m	2.375 AE	3.94"	+ 11.9°	80 %	+ 114.7°
18-12-2010	18h33m13s	-24°08' 25"	323°46' 16"	-59°50' 23"	1.26 m	2.376 AE	3.94"	+ 11.7°	87 %	+ 126.6°
19-12-2010	18h36m33s	-24°05' 59"	324°03' 07"	-59°51' 32"	1.25 m	2.376 AE	3.94"	+ 11.4°	93 %	+ 138.8°
20-12-2010	18h39m54s	-24°03' 17"	324°20' 11"	-59°52' 24"	1.25 m	2.376 AE	3.94"	+ 11.2°	97 %	+ 151.3°
21-12-2010	18h43m15s	-24°00' 19"	324°37' 29"	-59°53' 00"	1.25 m	2.377 AE	3.94"	+ 10.9°	99 %	+ 164.2°
22-12-2010	18h46m36s	-23°57' 04"	324°54' 59"	-59°53' 19"	1.24 m	2.377 AE	3.94"	+ 10.7°	99 %	+ 176.8°
23-12-2010	18h49m56s	-23°53' 33"	325°12' 43"	-59°53' 21"	1.24 m	2.377 AE	3.94"	+ 10.4°	96 %	+ 168.7°
24-12-2010	18h53m17s	-23°49' 46"	325°30' 40"	-59°53' 06"	1.23 m	2.377 AE	3.94"	+ 10.2°	91 %	+ 155.2°
25-12-2010	18h56m38s	-23°45' 43"	325°48' 50"	-59°52' 35"	1.23 m	2.378 AE	3.94"	+ 9.9°	83 %	+ 141.6°
26-12-2010	18h59m59s	-23°41' 24"	326°07' 13"	-59°51' 47"	1.23 m	2.378 AE	3.94"	+ 9.7°	74 %	+ 128.0°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 1°3'13"S
 Län.: 25°26' 6"W

Objekt

Planet:
 Mars

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
27-12-2010	19h03m19s	-23° 36 ' 48"	326° 25 ' 49"	-59° 50 ' 43"	1.22 m	2.378 AE	3.94"	+ 9.5°	63 %	+ 114.4°
28-12-2010	19h06m40s	-23° 31 ' 57"	326° 44 ' 38"	-59° 49 ' 22"	1.22 m	2.378 AE	3.94"	+ 9.2°	52 %	+ 101.0°
29-12-2010	19h10m01s	-23° 26 ' 49"	327° 03 ' 40"	-59° 47 ' 45"	1.22 m	2.378 AE	3.94"	+ 9.0°	41 %	+ 87.8°
30-12-2010	19h13m21s	-23° 21 ' 25"	327° 22 ' 56"	-59° 45 ' 51"	1.21 m	2.379 AE	3.94"	+ 8.7°	30 %	+ 74.8°
31-12-2010	19h16m42s	-23° 15 ' 45"	327° 42 ' 24"	-59° 43 ' 41"	1.21 m	2.379 AE	3.94"	+ 8.5°	20 %	+ 61.9°