

Sichtbarkeit

Datum/Standort

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

Objekt

Sonne

| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azim | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|------------|------------|------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 01-01-2010 | 18h45m17s | -23°01'54" | 344°18'13" | -61°51'48" | -26.04 m | 0.983 AE | 32.530' | --- | 99 % | + 177.6° |
| 02-01-2010 | 18h49m41s | -22°56'54" | 344°06'44" | -61°45'40" | -26.04 m | 0.983 AE | 32.530' | --- | 98 % | + 163.3° |
| 03-01-2010 | 18h54m06s | -22°51'26" | 343°55'38" | -61°39'05" | -26.04 m | 0.983 AE | 32.530' | --- | 93 % | + 149.1° |
| 04-01-2010 | 18h58m30s | -22°45'32" | 343°44'58" | -61°32'04" | -26.04 m | 0.983 AE | 32.530' | --- | 85 % | + 135.0° |
| 05-01-2010 | 19h02m53s | -22°39'10" | 343°34'43" | -61°24'37" | -26.04 m | 0.983 AE | 32.530' | --- | 76 % | + 121.3° |
| 06-01-2010 | 19h07m17s | -22°32'21" | 343°24'54" | -61°16'44" | -26.04 m | 0.983 AE | 32.529' | --- | 66 % | + 108.1° |
| 07-01-2010 | 19h11m40s | -22°25'05" | 343°15'32" | -61°08'25" | -26.04 m | 0.983 AE | 32.529' | --- | 55 % | + 95.2° |
| 08-01-2010 | 19h16m02s | -22°17'23" | 343°06'37" | -60°59'40" | -26.04 m | 0.983 AE | 32.528' | --- | 44 % | + 82.8° |
| 09-01-2010 | 19h20m24s | -22°09'15" | 342°58'10" | -60°50'31" | -26.04 m | 0.983 AE | 32.527' | --- | 34 % | + 70.8° |
| 10-01-2010 | 19h24m45s | -22°00'40" | 342°50'11" | -60°40'58" | -26.04 m | 0.983 AE | 32.526' | --- | 24 % | + 59.1° |
| 11-01-2010 | 19h29m06s | -21°51'40" | 342°42'41" | -60°31'00" | -26.04 m | 0.984 AE | 32.524' | --- | 16 % | + 47.8° |
| 12-01-2010 | 19h33m26s | -21°42'14" | 342°35'41" | -60°20'38" | -26.04 m | 0.984 AE | 32.523' | --- | 10 % | + 36.5° |
| 13-01-2010 | 19h37m46s | -21°32'22" | 342°29'10" | -60°09'53" | -26.04 m | 0.984 AE | 32.521' | --- | 4 % | + 25.5° |
| 14-01-2010 | 19h42m05s | -21°22'06" | 342°23'09" | -59°58'45" | -26.04 m | 0.984 AE | 32.520' | --- | 1 % | + 14.6° |
| 15-01-2010 | 19h46m23s | -21°11'25" | 342°17'38" | -59°47'15" | -26.04 m | 0.984 AE | 32.518' | --- | 0 % | + 3.8° |
| 16-01-2010 | 19h50m41s | -21°00'19" | 342°12'38" | -59°35'22" | -26.04 m | 0.984 AE | 32.516' | --- | 0 % | + 6.9° |
| 17-01-2010 | 19h54m58s | -20°48'50" | 342°08'08" | -59°23'08" | -26.04 m | 0.984 AE | 32.514' | --- | 2 % | + 17.6° |
| 18-01-2010 | 19h59m14s | -20°36'56" | 342°04'08" | -59°10'32" | -26.04 m | 0.984 AE | 32.511' | --- | 6 % | + 28.3° |
| 19-01-2010 | 20h03m30s | -20°24'39" | 342°00'38" | -58°57'36" | -26.04 m | 0.984 AE | 32.509' | --- | 11 % | + 39.0° |
| 20-01-2010 | 20h07m45s | -20°11'59" | 341°57'39" | -58°44'18" | -26.03 m | 0.984 AE | 32.507' | --- | 18 % | + 49.8° |
| 21-01-2010 | 20h11m59s | -19°58'57" | 341°55'10" | -58°30'41" | -26.03 m | 0.984 AE | 32.504' | --- | 26 % | + 60.8° |
| 22-01-2010 | 20h16m13s | -19°45'32" | 341°53'10" | -58°16'45" | -26.03 m | 0.984 AE | 32.501' | --- | 35 % | + 71.9° |
| 23-01-2010 | 20h20m25s | -19°31'45" | 341°51'40" | -58°02'29" | -26.03 m | 0.984 AE | 32.498' | --- | 45 % | + 83.4° |
| 24-01-2010 | 20h24m37s | -19°17'37" | 341°50'39" | -57°47'54" | -26.03 m | 0.984 AE | 32.495' | --- | 55 % | + 95.2° |
| 25-01-2010 | 20h28m48s | -19°03'07" | 341°50'07" | -57°33'01" | -26.03 m | 0.984 AE | 32.492' | --- | 65 % | + 107.5° |
| 26-01-2010 | 20h32m58s | -18°48'16" | 341°50'03" | -57°17'49" | -26.03 m | 0.985 AE | 32.489' | --- | 75 % | + 120.3° |
| 27-01-2010 | 20h37m07s | -18°33'05" | 341°50'27" | -57°02'20" | -26.03 m | 0.985 AE | 32.485' | --- | 84 % | + 133.6° |
| 28-01-2010 | 20h41m16s | -18°17'34" | 341°51'18" | -56°46'34" | -26.03 m | 0.985 AE | 32.481' | --- | 92 % | + 147.3° |
| 29-01-2010 | 20h45m24s | -18°01'43" | 341°52'36" | -56°30'31" | -26.03 m | 0.985 AE | 32.477' | --- | 97 % | + 161.5° |
| 30-01-2010 | 20h49m31s | -17°45'33" | 341°54'19" | -56°14'11" | -26.03 m | 0.985 AE | 32.473' | --- | 99 % | + 175.5° |

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| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azm | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|------------|------------|------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 31-01-2010 | 20h53m37s | -17°29'04" | 341°56'28" | -55°57'36" | -26.03 m | 0.985 AE | 32.469' | --- | 99 % | + 169.2° |
| 01-02-2010 | 20h57m42s | -17°12'16" | 341°59'01" | -55°40'44" | -26.03 m | 0.985 AE | 32.464' | --- | 95 % | + 154.9° |
| 02-02-2010 | 21h01m46s | -16°55'10" | 342°01'58" | -55°23'36" | -26.03 m | 0.985 AE | 32.460' | --- | 89 % | + 140.9° |
| 03-02-2010 | 21h05m50s | -16°37'46" | 342°05'18" | -55°06'14" | -26.03 m | 0.986 AE | 32.455' | --- | 81 % | + 127.4° |
| 04-02-2010 | 21h09m53s | -16°20'05" | 342°09'00" | -54°48'36" | -26.03 m | 0.986 AE | 32.450' | --- | 71 % | + 114.3° |
| 05-02-2010 | 21h13m55s | -16°02'06" | 342°13'03" | -54°30'44" | -26.03 m | 0.986 AE | 32.444' | --- | 60 % | + 101.7° |
| 06-02-2010 | 21h17m56s | -15°43'51" | 342°17'28" | -54°12'37" | -26.03 m | 0.986 AE | 32.439' | --- | 50 % | + 89.6° |
| 07-02-2010 | 21h21m57s | -15°25'20" | 342°22'13" | -53°54'17" | -26.03 m | 0.986 AE | 32.434' | --- | 40 % | + 78.0° |
| 08-02-2010 | 21h25m56s | -15°06'32" | 342°27'17" | -53°35'43" | -26.03 m | 0.986 AE | 32.428' | --- | 30 % | + 66.6° |
| 09-02-2010 | 21h29m55s | -14°47'30" | 342°32'41" | -53°16'56" | -26.03 m | 0.987 AE | 32.422' | --- | 22 % | + 55.5° |
| 10-02-2010 | 21h33m54s | -14°28'12" | 342°38'22" | -52°57'56" | -26.03 m | 0.987 AE | 32.416' | --- | 14 % | + 44.7° |
| 11-02-2010 | 21h37m51s | -14°08'39" | 342°44'21" | -52°38'44" | -26.03 m | 0.987 AE | 32.410' | --- | 8 % | + 33.9° |
| 12-02-2010 | 21h41m48s | -13°48'53" | 342°50'37" | -52°19'20" | -26.03 m | 0.987 AE | 32.404' | --- | 4 % | + 23.3° |
| 13-02-2010 | 21h45m43s | -13°28'53" | 342°57'10" | -51°59'44" | -26.03 m | 0.987 AE | 32.398' | --- | 1 % | + 12.7° |
| 14-02-2010 | 21h49m39s | -13°08'39" | 343°03'58" | -51°39'57" | -26.03 m | 0.988 AE | 32.392' | --- | 0 % | + 3.0° |
| 15-02-2010 | 21h53m33s | -12°48'13" | 343°11'01" | -51°19'59" | -26.03 m | 0.988 AE | 32.385' | --- | 0 % | + 9.3° |
| 16-02-2010 | 21h57m27s | -12°27'34" | 343°18'19" | -50°59'51" | -26.03 m | 0.988 AE | 32.379' | --- | 3 % | + 19.9° |
| 17-02-2010 | 22h01m20s | -12°06'44" | 343°25'50" | -50°39'32" | -26.03 m | 0.988 AE | 32.373' | --- | 7 % | + 30.7° |
| 18-02-2010 | 22h05m12s | -11°45'42" | 343°33'35" | -50°19'03" | -26.03 m | 0.988 AE | 32.366' | --- | 13 % | + 41.8° |
| 19-02-2010 | 22h09m03s | -11°24'28" | 343°41'32" | -49°58'25" | -26.03 m | 0.989 AE | 32.359' | --- | 20 % | + 53.0° |
| 20-02-2010 | 22h12m54s | -11°03'05" | 343°49'41" | -49°37'38" | -26.02 m | 0.989 AE | 32.353' | --- | 29 % | + 64.5° |
| 21-02-2010 | 22h16m44s | -10°41'30" | 343°58'01" | -49°16'41" | -26.02 m | 0.989 AE | 32.346' | --- | 38 % | + 76.2° |
| 22-02-2010 | 22h20m34s | -10°19'47" | 344°06'32" | -48°55'37" | -26.02 m | 0.989 AE | 32.339' | --- | 49 % | + 88.4° |
| 23-02-2010 | 22h24m23s | -9°57'53" | 344°15'13" | -48°34'24" | -26.02 m | 0.989 AE | 32.332' | --- | 60 % | + 100.9° |
| 24-02-2010 | 22h28m11s | -9°35'51" | 344°24'03" | -48°13'04" | -26.02 m | 0.990 AE | 32.325' | --- | 70 % | + 114.0° |
| 25-02-2010 | 22h31m59s | -9°13'40" | 344°33'02" | -47°51'36" | -26.02 m | 0.990 AE | 32.317' | --- | 80 % | + 127.4° |
| 26-02-2010 | 22h35m46s | -8°51'21" | 344°42'09" | -47°30'01" | -26.02 m | 0.990 AE | 32.310' | --- | 89 % | + 141.2° |
| 27-02-2010 | 22h39m32s | -8°28'54" | 344°51'23" | -47°08'18" | -26.02 m | 0.990 AE | 32.303' | --- | 95 % | + 155.3° |
| 28-02-2010 | 22h43m18s | -8°06'20" | 345°00'44" | -46°46'30" | -26.02 m | 0.990 AE | 32.295' | --- | 99 % | + 169.1° |
| 01-03-2010 | 22h47m03s | -7°43'38" | 345°10'11" | -46°24'35" | -26.02 m | 0.991 AE | 32.287' | --- | 99 % | + 173.6° |

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| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azim | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|-------------|-------------|-------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 02-03-2010 | 22h50m48s | - 7°20' 50" | 345°19' 44" | -46°02' 33" | -26.02 m | 0.991 AE | 32.279' | --- | 97 % | + 160.8° |
| 03-03-2010 | 22h54m32s | - 6°57' 56" | 345°29' 21" | -45°40' 26" | -26.02 m | 0.991 AE | 32.271' | --- | 92 % | + 147.3° |
| 04-03-2010 | 22h58m16s | - 6°34' 55" | 345°39' 01" | -45°18' 14" | -26.02 m | 0.991 AE | 32.263' | --- | 85 % | + 134.1° |
| 05-03-2010 | 23h02m00s | - 6°11' 49" | 345°48' 46" | -44°55' 56" | -26.02 m | 0.992 AE | 32.255' | --- | 76 % | + 121.3° |
| 06-03-2010 | 23h05m42s | - 5°48' 38" | 345°58' 33" | -44°33' 33" | -26.02 m | 0.992 AE | 32.246' | --- | 67 % | + 109.1° |
| 07-03-2010 | 23h09m25s | - 5°25' 21" | 346°08' 22" | -44°11' 05" | -26.02 m | 0.992 AE | 32.238' | --- | 57 % | + 97.3° |
| 08-03-2010 | 23h13m07s | - 5°02' 00" | 346°18' 13" | -43°48' 34" | -26.02 m | 0.993 AE | 32.229' | --- | 47 % | + 85.9° |
| 09-03-2010 | 23h16m49s | - 4°38' 36" | 346°28' 05" | -43°25' 58" | -26.02 m | 0.993 AE | 32.221' | --- | 37 % | + 74.8° |
| 10-03-2010 | 23h20m31s | - 4°15' 07" | 346°37' 58" | -43°03' 18" | -26.02 m | 0.993 AE | 32.212' | --- | 28 % | + 64.0° |
| 11-03-2010 | 23h24m12s | - 3°51' 35" | 346°47' 52" | -42°40' 36" | -26.01 m | 0.993 AE | 32.203' | --- | 20 % | + 53.3° |
| 12-03-2010 | 23h27m53s | - 3°28' 00" | 346°57' 45" | -42°17' 50" | -26.01 m | 0.994 AE | 32.194' | --- | 13 % | + 42.6° |
| 13-03-2010 | 23h31m33s | - 3°04' 23" | 347°07' 37" | -41°55' 01" | -26.01 m | 0.994 AE | 32.186' | --- | 7 % | + 32.0° |
| 14-03-2010 | 23h35m13s | - 2°40' 44" | 347°17' 29" | -41°32' 10" | -26.01 m | 0.994 AE | 32.177' | --- | 3 % | + 21.4° |
| 15-03-2010 | 23h38m53s | - 2°17' 03" | 347°27' 19" | -41°09' 18" | -26.01 m | 0.994 AE | 32.168' | --- | 0 % | + 11.0° |
| 16-03-2010 | 23h42m33s | - 1°53' 20" | 347°37' 08" | -40°46' 23" | -26.01 m | 0.995 AE | 32.159' | --- | 0 % | + 4.0° |
| 17-03-2010 | 23h46m13s | - 1°29' 37" | 347°46' 54" | -40°23' 28" | -26.01 m | 0.995 AE | 32.150' | --- | 1 % | + 12.4° |
| 18-03-2010 | 23h49m52s | - 1°05' 53" | 347°56' 38" | -40°00' 31" | -26.01 m | 0.995 AE | 32.142' | --- | 4 % | + 23.4° |
| 19-03-2010 | 23h53m31s | - 0°42' 09" | 348°06' 19" | -39°37' 34" | -26.01 m | 0.995 AE | 32.133' | --- | 9 % | + 34.8° |
| 20-03-2010 | 23h57m10s | - 0°18' 25" | 348°15' 57" | -39°14' 37" | -26.01 m | 0.996 AE | 32.124' | --- | 16 % | + 46.4° |
| 21-03-2010 | 0h00m49s | + 0°05' 17" | 348°25' 31" | -38°51' 39" | -26.01 m | 0.996 AE | 32.115' | --- | 24 % | + 58.3° |
| 22-03-2010 | 0h04m28s | + 0°28' 59" | 348°35' 02" | -38°28' 43" | -26.01 m | 0.996 AE | 32.106' | --- | 34 % | + 70.5° |
| 23-03-2010 | 0h08m07s | + 0°52' 40" | 348°44' 28" | -38°05' 47" | -26.01 m | 0.997 AE | 32.097' | --- | 44 % | + 83.0° |
| 24-03-2010 | 0h11m45s | + 1°16' 19" | 348°53' 50" | -37°42' 52" | -26.01 m | 0.997 AE | 32.089' | --- | 55 % | + 95.8° |
| 25-03-2010 | 0h15m24s | + 1°39' 56" | 349°03' 08" | -37°19' 58" | -26.01 m | 0.997 AE | 32.080' | --- | 66 % | + 109.0° |
| 26-03-2010 | 0h19m02s | + 2°03' 30" | 349°12' 20" | -36°57' 07" | -26.01 m | 0.997 AE | 32.071' | --- | 77 % | + 122.5° |
| 27-03-2010 | 0h22m40s | + 2°27' 02" | 349°21' 27" | -36°34' 17" | -26.01 m | 0.998 AE | 32.062' | --- | 86 % | + 136.2° |
| 28-03-2010 | 0h26m19s | + 2°50' 31" | 349°30' 28" | -36°11' 30" | -26.00 m | 0.998 AE | 32.053' | --- | 93 % | + 150.0° |
| 29-03-2010 | 0h29m48s | + 3°12' 58" | 331°54' 31" | -32°40' 48" | -26.00 m | 0.998 AE | 32.044' | --- | 97 % | + 163.2° |
| 30-03-2010 | 0h33m26s | + 3°36' 19" | 332°07' 55" | -32°19' 52" | -26.00 m | 0.999 AE | 32.035' | --- | 99 % | + 174.0° |
| 31-03-2010 | 0h37m05s | + 3°59' 37" | 332°21' 11" | -31°58' 58" | -26.00 m | 0.999 AE | 32.026' | --- | 98 % | + 166.9° |

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|-----------------------|-----------------|---------------|---------------|---------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 01-04-2010 | 0h40m43s | + 4° 22 ' 50" | 332° 34 ' 18" | -31° 38 ' 07" | -26.00 m | 0.999 AE | 32.016' | --- | 95 % | + 154.3° |
| 02-04-2010 | 0h44m22s | + 4° 45 ' 59" | 332° 47 ' 15" | -31° 17 ' 17" | -26.00 m | 0.999 AE | 32.007' | --- | 89 % | + 141.7° |
| 03-04-2010 | 0h48m01s | + 5° 09 ' 02" | 333° 00 ' 03" | -30° 56 ' 31" | -26.00 m | 1.000 AE | 31.998' | --- | 82 % | + 129.4° |
| 04-04-2010 | 0h51m40s | + 5° 32 ' 00" | 333° 12 ' 40" | -30° 35 ' 48" | -26.00 m | 1.000 AE | 31.989' | --- | 73 % | + 117.5° |
| 05-04-2010 | 0h55m19s | + 5° 54 ' 53" | 333° 25 ' 06" | -30° 15 ' 08" | -26.00 m | 1.000 AE | 31.979' | --- | 64 % | + 106.0° |
| 06-04-2010 | 0h58m58s | + 6° 17 ' 39" | 333° 37 ' 22" | -29° 54 ' 32" | -26.00 m | 1.001 AE | 31.970' | --- | 54 % | + 94.8° |
| 07-04-2010 | 1h02m37s | + 6° 40 ' 19" | 333° 49 ' 27" | -29° 34 ' 00" | -26.00 m | 1.001 AE | 31.960' | --- | 45 % | + 83.9° |
| 08-04-2010 | 1h06m17s | + 7° 02 ' 52" | 334° 01 ' 21" | -29° 13 ' 32" | -26.00 m | 1.001 AE | 31.951' | --- | 35 % | + 73.2° |
| 09-04-2010 | 1h09m57s | + 7° 25 ' 18" | 334° 13 ' 03" | -28° 53 ' 09" | -26.00 m | 1.001 AE | 31.942' | --- | 27 % | + 62.5° |
| 10-04-2010 | 1h13m37s | + 7° 47 ' 37" | 334° 24 ' 33" | -28° 32 ' 51" | -26.00 m | 1.002 AE | 31.933' | --- | 19 % | + 51.8° |
| 11-04-2010 | 1h17m18s | + 8° 09 ' 48" | 334° 35 ' 52" | -28° 12 ' 38" | -26.00 m | 1.002 AE | 31.923' | --- | 12 % | + 41.1° |
| 12-04-2010 | 1h20m59s | + 8° 31 ' 51" | 334° 46 ' 59" | -27° 52 ' 30" | -25.99 m | 1.002 AE | 31.914' | --- | 6 % | + 30.2° |
| 13-04-2010 | 1h24m40s | + 8° 53 ' 45" | 334° 57 ' 53" | -27° 32 ' 29" | -25.99 m | 1.003 AE | 31.905' | --- | 2 % | + 19.3° |
| 14-04-2010 | 1h28m21s | + 9° 15 ' 30" | 335° 08 ' 35" | -27° 12 ' 34" | -25.99 m | 1.003 AE | 31.896' | --- | 0 % | + 8.6° |
| 15-04-2010 | 1h32m03s | + 9° 37 ' 06" | 335° 19 ' 05" | -26° 52 ' 45" | -25.99 m | 1.003 AE | 31.887' | --- | 0 % | + 5.9° |
| 16-04-2010 | 1h35m45s | + 9° 58 ' 33" | 335° 29 ' 22" | -26° 33 ' 03" | -25.99 m | 1.003 AE | 31.878' | --- | 2 % | + 16.4° |
| 17-04-2010 | 1h39m28s | +10° 19 ' 49" | 335° 39 ' 27" | -26° 13 ' 29" | -25.99 m | 1.004 AE | 31.869' | --- | 6 % | + 28.2° |
| 18-04-2010 | 1h43m10s | +10° 40 ' 55" | 335° 49 ' 19" | -25° 54 ' 02" | -25.99 m | 1.004 AE | 31.861' | --- | 12 % | + 40.4° |
| 19-04-2010 | 1h46m54s | +11° 01 ' 51" | 335° 58 ' 58" | -25° 34 ' 43" | -25.99 m | 1.004 AE | 31.852' | --- | 20 % | + 52.9° |
| 20-04-2010 | 1h50m37s | +11° 22 ' 35" | 336° 08 ' 24" | -25° 15 ' 33" | -25.99 m | 1.005 AE | 31.843' | --- | 29 % | + 65.6° |
| 21-04-2010 | 1h54m21s | +11° 43 ' 08" | 336° 17 ' 37" | -24° 56 ' 31" | -25.99 m | 1.005 AE | 31.835' | --- | 40 % | + 78.5° |
| 22-04-2010 | 1h58m06s | +12° 03 ' 29" | 336° 26 ' 37" | -24° 37 ' 38" | -25.99 m | 1.005 AE | 31.827' | --- | 51 % | + 91.6° |
| 23-04-2010 | 2h01m51s | +12° 23 ' 39" | 336° 35 ' 24" | -24° 18 ' 55" | -25.99 m | 1.005 AE | 31.818' | --- | 63 % | + 104.9° |
| 24-04-2010 | 2h05m36s | +12° 43 ' 36" | 336° 43 ' 57" | -24° 00 ' 21" | -25.99 m | 1.006 AE | 31.810' | --- | 73 % | + 118.3° |
| 25-04-2010 | 2h09m22s | +13° 03 ' 20" | 336° 52 ' 18" | -23° 41 ' 57" | -25.99 m | 1.006 AE | 31.802' | --- | 83 % | + 131.8° |
| 26-04-2010 | 2h13m08s | +13° 22 ' 52" | 337° 00 ' 24" | -23° 23 ' 44" | -25.99 m | 1.006 AE | 31.793' | --- | 91 % | + 145.2° |
| 27-04-2010 | 2h16m54s | +13° 42 ' 10" | 337° 08 ' 18" | -23° 05 ' 40" | -25.99 m | 1.006 AE | 31.785' | --- | 96 % | + 158.4° |
| 28-04-2010 | 2h20m42s | +14° 01 ' 15" | 337° 15 ' 57" | -22° 47 ' 48" | -25.99 m | 1.007 AE | 31.777' | --- | 99 % | + 170.7° |
| 29-04-2010 | 2h24m29s | +14° 20 ' 06" | 337° 23 ' 23" | -22° 30 ' 07" | -25.99 m | 1.007 AE | 31.769' | --- | 99 % | + 172.3° |
| 30-04-2010 | 2h28m18s | +14° 38 ' 42" | 337° 30 ' 34" | -22° 12 ' 37" | -25.98 m | 1.007 AE | 31.760' | --- | 97 % | + 161.0° |

Sichtbarkeit

Datum/Standort

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

Objekt

Sonne

| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azim | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|-------------|-------------|-------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 01-05-2010 | 2h32m06s | +14°57' 05" | 337°37' 32" | -21°55' 18" | -25.98 m | 1.007 AE | 31.752' | --- | 93 % | + 148.9° |
| 02-05-2010 | 2h35m55s | +15°15' 12" | 337°44' 15" | -21°38' 12" | -25.98 m | 1.008 AE | 31.744' | --- | 87 % | + 137.1° |
| 03-05-2010 | 2h39m45s | +15°33' 05" | 337°50' 44" | -21°21' 18" | -25.98 m | 1.008 AE | 31.736' | --- | 79 % | + 125.6° |
| 04-05-2010 | 2h43m36s | +15°50' 42" | 337°56' 59" | -21°04' 36" | -25.98 m | 1.008 AE | 31.728' | --- | 71 % | + 114.3° |
| 05-05-2010 | 2h47m27s | +16°08' 03" | 338°02' 59" | -20°48' 07" | -25.98 m | 1.008 AE | 31.720' | --- | 62 % | + 103.3° |
| 06-05-2010 | 2h51m18s | +16°25' 09" | 338°08' 45" | -20°31' 51" | -25.98 m | 1.009 AE | 31.712' | --- | 52 % | + 92.5° |
| 07-05-2010 | 2h55m10s | +16°41' 58" | 338°14' 17" | -20°15' 49" | -25.98 m | 1.009 AE | 31.704' | --- | 43 % | + 81.7° |
| 08-05-2010 | 2h59m03s | +16°58' 30" | 338°19' 35" | -20°00' 01" | -25.98 m | 1.009 AE | 31.697' | --- | 33 % | + 71.0° |
| 09-05-2010 | 3h02m56s | +17°14' 46" | 338°24' 38" | -19°44' 27" | -25.98 m | 1.009 AE | 31.689' | --- | 25 % | + 60.1° |
| 10-05-2010 | 3h06m50s | +17°30' 44" | 338°29' 27" | -19°29' 07" | -25.98 m | 1.010 AE | 31.682' | --- | 17 % | + 49.1° |
| 11-05-2010 | 3h10m44s | +17°46' 25" | 338°34' 02" | -19°14' 03" | -25.98 m | 1.010 AE | 31.674' | --- | 10 % | + 37.9° |
| 12-05-2010 | 3h14m39s | +18°01' 47" | 338°38' 23" | -18°59' 13" | -25.98 m | 1.010 AE | 31.667' | --- | 5 % | + 26.4° |
| 13-05-2010 | 3h18m35s | +18°16' 52" | 338°42' 29" | -18°44' 39" | -25.98 m | 1.010 AE | 31.660' | --- | 1 % | + 14.7° |
| 14-05-2010 | 3h22m31s | +18°31' 38" | 338°46' 22" | -18°30' 21" | -25.98 m | 1.011 AE | 31.653' | --- | 0 % | + 3.8° |
| 15-05-2010 | 3h26m28s | +18°46' 05" | 338°50' 01" | -18°16' 19" | -25.98 m | 1.011 AE | 31.646' | --- | 0 % | + 10.7° |
| 16-05-2010 | 3h30m25s | +19°00' 14" | 338°53' 27" | -18°02' 33" | -25.98 m | 1.011 AE | 31.639' | --- | 4 % | + 23.1° |
| 17-05-2010 | 3h34m23s | +19°14' 02" | 338°56' 39" | -17°49' 05" | -25.98 m | 1.011 AE | 31.633' | --- | 9 % | + 36.0° |
| 18-05-2010 | 3h38m22s | +19°27' 32" | 338°59' 37" | -17°35' 53" | -25.98 m | 1.011 AE | 31.626' | --- | 17 % | + 49.0° |
| 19-05-2010 | 3h42m21s | +19°40' 41" | 339°02' 23" | -17°22' 59" | -25.97 m | 1.012 AE | 31.620' | --- | 27 % | + 62.2° |
| 20-05-2010 | 3h46m20s | +19°53' 30" | 339°04' 55" | -17°10' 22" | -25.97 m | 1.012 AE | 31.614' | --- | 37 % | + 75.5° |
| 21-05-2010 | 3h50m20s | +20°05' 59" | 339°07' 15" | -16°58' 04" | -25.97 m | 1.012 AE | 31.608' | --- | 49 % | + 88.8° |
| 22-05-2010 | 3h54m21s | +20°18' 07" | 339°09' 22" | -16°46' 04" | -25.97 m | 1.012 AE | 31.602' | --- | 60 % | + 102.0° |
| 23-05-2010 | 3h58m22s | +20°29' 54" | 339°11' 16" | -16°34' 22" | -25.97 m | 1.012 AE | 31.596' | --- | 71 % | + 115.2° |
| 24-05-2010 | 4h02m23s | +20°41' 21" | 339°12' 58" | -16°23' 00" | -25.97 m | 1.013 AE | 31.591' | --- | 81 % | + 128.3° |
| 25-05-2010 | 4h06m25s | +20°52' 25" | 339°14' 28" | -16°11' 56" | -25.97 m | 1.013 AE | 31.585' | --- | 89 % | + 141.3° |
| 26-05-2010 | 4h10m28s | +21°03' 09" | 339°15' 45" | -16°01' 12" | -25.97 m | 1.013 AE | 31.580' | --- | 94 % | + 154.1° |
| 27-05-2010 | 4h14m31s | +21°13' 30" | 339°16' 51" | -15°50' 47" | -25.97 m | 1.013 AE | 31.574' | --- | 98 % | + 166.5° |
| 28-05-2010 | 4h18m34s | +21°23' 29" | 339°17' 44" | -15°40' 42" | -25.97 m | 1.013 AE | 31.569' | --- | 99 % | + 176.1° |
| 29-05-2010 | 4h22m38s | +21°33' 07" | 339°18' 25" | -15°30' 57" | -25.97 m | 1.013 AE | 31.563' | --- | 98 % | + 167.7° |
| 30-05-2010 | 4h26m43s | +21°42' 22" | 339°18' 55" | -15°21' 32" | -25.97 m | 1.014 AE | 31.558' | --- | 95 % | + 156.2° |

Sichtbarkeit

Datum/Standort

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

Objekt

Sonne

| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azim | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|------------|------------|------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 31-05-2010 | 4h30m47s | +21°51'14" | 339°19'12" | -15°12'28" | -25.97 m | 1.014 AE | 31.553' | --- | 91 % | + 144.8° |
| 01-06-2010 | 4h34m53s | +21°59'43" | 339°19'19" | -15°03'44" | -25.97 m | 1.014 AE | 31.548' | --- | 84 % | + 133.5° |
| 02-06-2010 | 4h38m58s | +22°07'50" | 339°19'14" | -14°55'21" | -25.97 m | 1.014 AE | 31.543' | --- | 77 % | + 122.5° |
| 03-06-2010 | 4h43m04s | +22°15'34" | 339°18'58" | -14°47'20" | -25.97 m | 1.014 AE | 31.538' | --- | 68 % | + 111.6° |
| 04-06-2010 | 4h47m11s | +22°22'54" | 339°18'30" | -14°39'39" | -25.97 m | 1.014 AE | 31.534' | --- | 59 % | + 100.7° |
| 05-06-2010 | 4h51m18s | +22°29'50" | 339°17'52" | -14°32'21" | -25.97 m | 1.015 AE | 31.529' | --- | 50 % | + 89.9° |
| 06-06-2010 | 4h55m25s | +22°36'23" | 339°17'04" | -14°25'24" | -25.97 m | 1.015 AE | 31.525' | --- | 40 % | + 78.9° |
| 07-06-2010 | 4h59m32s | +22°42'33" | 339°16'05" | -14°18'48" | -25.97 m | 1.015 AE | 31.520' | --- | 31 % | + 67.8° |
| 08-06-2010 | 5h03m40s | +22°48'18" | 339°14'56" | -14°12'35" | -25.97 m | 1.015 AE | 31.516' | --- | 22 % | + 56.5° |
| 09-06-2010 | 5h07m48s | +22°53'39" | 339°13'38" | -14°06'45" | -25.97 m | 1.015 AE | 31.512' | --- | 14 % | + 44.8° |
| 10-06-2010 | 5h11m57s | +22°58'36" | 339°12'09" | -14°01'17" | -25.97 m | 1.015 AE | 31.508' | --- | 7 % | + 32.8° |
| 11-06-2010 | 5h16m05s | +23°03'09" | 339°10'32" | -13°56'11" | -25.97 m | 1.015 AE | 31.505' | --- | 3 % | + 20.4° |
| 12-06-2010 | 5h20m14s | +23°07'17" | 339°08'46" | -13°51'29" | -25.97 m | 1.015 AE | 31.501' | --- | 0 % | + 7.6° |
| 13-06-2010 | 5h24m23s | +23°11'01" | 339°06'51" | -13°47'09" | -25.97 m | 1.016 AE | 31.498' | --- | 0 % | + 5.6° |
| 14-06-2010 | 5h28m32s | +23°14'21" | 339°04'47" | -13°43'13" | -25.97 m | 1.016 AE | 31.495' | --- | 2 % | + 18.9° |
| 15-06-2010 | 5h32m42s | +23°17'16" | 339°02'36" | -13°39'40" | -25.97 m | 1.016 AE | 31.492' | --- | 7 % | + 32.4° |
| 16-06-2010 | 5h36m51s | +23°19'46" | 339°00'17" | -13°36'31" | -25.97 m | 1.016 AE | 31.489' | --- | 15 % | + 46.0° |
| 17-06-2010 | 5h41m01s | +23°21'51" | 338°57'51" | -13°33'45" | -25.97 m | 1.016 AE | 31.487' | --- | 24 % | + 59.5° |
| 18-06-2010 | 5h45m10s | +23°23'32" | 338°55'18" | -13°31'23" | -25.97 m | 1.016 AE | 31.484' | --- | 35 % | + 72.9° |
| 19-06-2010 | 5h49m20s | +23°24'47" | 338°52'38" | -13°29'24" | -25.97 m | 1.016 AE | 31.482' | --- | 47 % | + 86.2° |
| 20-06-2010 | 5h53m30s | +23°25'39" | 338°49'52" | -13°27'50" | -25.97 m | 1.016 AE | 31.480' | --- | 58 % | + 99.3° |
| 21-06-2010 | 5h57m39s | +23°26'05" | 338°47'00" | -13°26'39" | -25.97 m | 1.016 AE | 31.478' | --- | 69 % | + 112.2° |
| 22-06-2010 | 6h01m49s | +23°26'06" | 338°44'02" | -13°25'53" | -25.96 m | 1.016 AE | 31.476' | --- | 78 % | + 124.8° |
| 23-06-2010 | 6h05m58s | +23°25'43" | 338°40'59" | -13°25'30" | -25.96 m | 1.016 AE | 31.474' | --- | 86 % | + 137.3° |
| 24-06-2010 | 6h10m08s | +23°24'55" | 338°37'50" | -13°25'32" | -25.96 m | 1.016 AE | 31.473' | --- | 93 % | + 149.6° |
| 25-06-2010 | 6h14m17s | +23°23'43" | 338°34'36" | -13°25'58" | -25.96 m | 1.016 AE | 31.471' | --- | 97 % | + 161.6° |
| 26-06-2010 | 6h18m26s | +23°22'05" | 338°31'17" | -13°26'48" | -25.96 m | 1.016 AE | 31.470' | --- | 99 % | + 173.3° |
| 27-06-2010 | 6h22m35s | +23°20'03" | 338°27'54" | -13°28'02" | -25.96 m | 1.017 AE | 31.468' | --- | 99 % | + 174.7° |
| 28-06-2010 | 6h26m44s | +23°17'37" | 338°24'26" | -13°29'40" | -25.96 m | 1.017 AE | 31.467' | --- | 97 % | + 163.4° |
| 29-06-2010 | 6h30m53s | +23°14'46" | 338°20'54" | -13°31'43" | -25.96 m | 1.017 AE | 31.466' | --- | 94 % | + 152.2° |

Sichtbarkeit

Datum/Standort

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

Objekt

Sonne

| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azim | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|------------|------------|------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 30-06-2010 | 6h35m02s | +23°11'30" | 338°17'19" | -13°34'09" | -25.96 m | 1.017 AE | 31.465' | --- | 89 % | + 141.2° |
| 01-07-2010 | 6h39m10s | +23°07'50" | 338°13'39" | -13°37'00" | -25.96 m | 1.017 AE | 31.464' | --- | 82 % | + 130.2° |
| 02-07-2010 | 6h43m18s | +23°03'46" | 338°09'56" | -13°40'15" | -25.96 m | 1.017 AE | 31.464' | --- | 74 % | + 119.3° |
| 03-07-2010 | 6h47m26s | +22°59'17" | 338°06'10" | -13°43'55" | -25.96 m | 1.017 AE | 31.463' | --- | 66 % | + 108.4° |
| 04-07-2010 | 6h51m33s | +22°54'25" | 338°02'21" | -13°47'58" | -25.96 m | 1.017 AE | 31.463' | --- | 56 % | + 97.5° |
| 05-07-2010 | 6h55m41s | +22°49'08" | 337°58'29" | -13°52'26" | -25.96 m | 1.017 AE | 31.462' | --- | 47 % | + 86.3° |
| 06-07-2010 | 6h59m48s | +22°43'28" | 337°54'35" | -13°57'17" | -25.96 m | 1.017 AE | 31.462' | --- | 37 % | + 74.9° |
| 07-07-2010 | 7h03m54s | +22°37'24" | 337°50'39" | -14°02'32" | -25.96 m | 1.017 AE | 31.462' | --- | 27 % | + 63.2° |
| 08-07-2010 | 7h08m01s | +22°30'56" | 337°46'41" | -14°08'12" | -25.96 m | 1.017 AE | 31.462' | --- | 18 % | + 51.1° |
| 09-07-2010 | 7h12m07s | +22°24'05" | 337°42'41" | -14°14'15" | -25.96 m | 1.017 AE | 31.463' | --- | 11 % | + 38.6° |
| 10-07-2010 | 7h16m12s | +22°16'50" | 337°38'40" | -14°20'42" | -25.96 m | 1.017 AE | 31.463' | --- | 4 % | + 25.7° |
| 11-07-2010 | 7h20m17s | +22°09'13" | 337°34'38" | -14°27'32" | -25.96 m | 1.017 AE | 31.464' | --- | 1 % | + 12.4° |
| 12-07-2010 | 7h24m22s | +22°01'12" | 337°30'36" | -14°34'46" | -25.96 m | 1.017 AE | 31.465' | --- | 0 % | + 2.1° |
| 13-07-2010 | 7h28m26s | +21°52'49" | 337°26'33" | -14°42'24" | -25.96 m | 1.017 AE | 31.466' | --- | 1 % | + 15.3° |
| 14-07-2010 | 7h32m30s | +21°44'04" | 337°22'30" | -14°50'24" | -25.96 m | 1.017 AE | 31.467' | --- | 6 % | + 29.2° |
| 15-07-2010 | 7h36m33s | +21°34'56" | 337°18'27" | -14°58'48" | -25.96 m | 1.017 AE | 31.468' | --- | 13 % | + 43.0° |
| 16-07-2010 | 7h40m36s | +21°25'26" | 337°14'26" | -15°07'35" | -25.96 m | 1.016 AE | 31.470' | --- | 22 % | + 56.7° |
| 17-07-2010 | 7h44m38s | +21°15'35" | 337°10'25" | -15°16'45" | -25.96 m | 1.016 AE | 31.472' | --- | 33 % | + 70.1° |
| 18-07-2010 | 7h48m40s | +21°05'21" | 337°06'25" | -15°26'17" | -25.96 m | 1.016 AE | 31.474' | --- | 44 % | + 83.2° |
| 19-07-2010 | 7h52m41s | +20°54'47" | 337°02'26" | -15°36'12" | -25.96 m | 1.016 AE | 31.476' | --- | 55 % | + 96.0° |
| 20-07-2010 | 7h56m41s | +20°43'51" | 336°58'30" | -15°46'29" | -25.97 m | 1.016 AE | 31.478' | --- | 66 % | + 108.5° |
| 21-07-2010 | 8h00m41s | +20°32'35" | 336°54'35" | -15°57'08" | -25.97 m | 1.016 AE | 31.481' | --- | 75 % | + 120.6° |
| 22-07-2010 | 8h04m41s | +20°20'58" | 336°50'41" | -16°08'09" | -25.97 m | 1.016 AE | 31.483' | --- | 84 % | + 132.6° |
| 23-07-2010 | 8h08m39s | +20°09'01" | 336°46'50" | -16°19'32" | -25.97 m | 1.016 AE | 31.486' | --- | 90 % | + 144.3° |
| 24-07-2010 | 8h12m37s | +19°56'43" | 336°43'01" | -16°31'17" | -25.97 m | 1.016 AE | 31.489' | --- | 95 % | + 155.8° |
| 25-07-2010 | 8h16m35s | +19°44'06" | 336°39'15" | -16°43'23" | -25.97 m | 1.016 AE | 31.492' | --- | 98 % | + 167.2° |
| 26-07-2010 | 8h20m32s | +19°31'08" | 336°35'31" | -16°55'50" | -25.97 m | 1.016 AE | 31.495' | --- | 99 % | + 178.1° |
| 27-07-2010 | 8h24m29s | +19°17'52" | 336°31'49" | -17°08'38" | -25.97 m | 1.016 AE | 31.498' | --- | 99 % | + 170.4° |
| 28-07-2010 | 8h28m24s | +19°04'16" | 336°28'10" | -17°21'46" | -25.97 m | 1.015 AE | 31.501' | --- | 96 % | + 159.4° |
| 29-07-2010 | 8h32m20s | +18°50'22" | 336°24'34" | -17°35'15" | -25.97 m | 1.015 AE | 31.504' | --- | 92 % | + 148.5° |

Sichtbarkeit

Datum/Standort

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

Objekt

Sonne

| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azm | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|------------|------------|------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 30-07-2010 | 8h36m14s | +18°36'08" | 336°21'00" | -17°49'04" | -25.97 m | 1.015 AE | 31.507' | --- | 87 % | + 137.6° |
| 31-07-2010 | 8h40m08s | +18°21'37" | 336°17'30" | -18°03'13" | -25.97 m | 1.015 AE | 31.511' | --- | 80 % | + 126.6° |
| 01-08-2010 | 8h44m02s | +18°06'47" | 336°14'02" | -18°17'42" | -25.97 m | 1.015 AE | 31.514' | --- | 71 % | + 115.6° |
| 02-08-2010 | 8h47m55s | +17°51'40" | 336°10'38" | -18°32'30" | -25.97 m | 1.015 AE | 31.518' | --- | 62 % | + 104.4° |
| 03-08-2010 | 8h51m47s | +17°36'15" | 336°07'16" | -18°47'37" | -25.97 m | 1.015 AE | 31.522' | --- | 53 % | + 93.0° |
| 04-08-2010 | 8h55m38s | +17°20'32" | 336°03'58" | -19°03'03" | -25.97 m | 1.015 AE | 31.526' | --- | 42 % | + 81.4° |
| 05-08-2010 | 8h59m30s | +17°04'33" | 336°00'43" | -19°18'48" | -25.97 m | 1.015 AE | 31.530' | --- | 32 % | + 69.3° |
| 06-08-2010 | 9h03m20s | +16°48'17" | 335°57'32" | -19°34'51" | -25.97 m | 1.014 AE | 31.534' | --- | 22 % | + 56.9° |
| 07-08-2010 | 9h07m10s | +16°31'45" | 335°54'24" | -19°51'12" | -25.97 m | 1.014 AE | 31.539' | --- | 14 % | + 44.0° |
| 08-08-2010 | 9h10m59s | +16°14'56" | 335°51'19" | -20°07'51" | -25.97 m | 1.014 AE | 31.543' | --- | 7 % | + 30.7° |
| 09-08-2010 | 9h14m48s | +15°57'52" | 335°48'18" | -20°24'47" | -25.97 m | 1.014 AE | 31.548' | --- | 2 % | + 17.1° |
| 10-08-2010 | 9h18m36s | +15°40'32" | 335°45'21" | -20°42'01" | -25.97 m | 1.014 AE | 31.553' | --- | 0 % | + 4.8° |
| 11-08-2010 | 9h22m24s | +15°22'58" | 335°42'28" | -20°59'31" | -25.97 m | 1.014 AE | 31.558' | --- | 1 % | + 12.1° |
| 12-08-2010 | 9h26m11s | +15°05'09" | 335°39'39" | -21°17'17" | -25.97 m | 1.013 AE | 31.563' | --- | 5 % | + 25.8° |
| 13-08-2010 | 9h29m57s | +14°47'05" | 335°36'54" | -21°35'20" | -25.97 m | 1.013 AE | 31.569' | --- | 11 % | + 39.6° |
| 14-08-2010 | 9h33m43s | +14°28'47" | 335°34'13" | -21°53'38" | -25.97 m | 1.013 AE | 31.574' | --- | 20 % | + 53.2° |
| 15-08-2010 | 9h37m29s | +14°10'16" | 335°31'36" | -22°12'12" | -25.97 m | 1.013 AE | 31.580' | --- | 30 % | + 66.3° |
| 16-08-2010 | 9h41m13s | +13°51'31" | 335°29'04" | -22°31'01" | -25.97 m | 1.013 AE | 31.586' | --- | 41 % | + 79.1° |
| 17-08-2010 | 9h44m58s | +13°32'33" | 335°26'35" | -22°50'05" | -25.97 m | 1.013 AE | 31.592' | --- | 51 % | + 91.5° |
| 18-08-2010 | 9h48m41s | +13°13'22" | 335°24'11" | -23°09'23" | -25.97 m | 1.012 AE | 31.598' | --- | 62 % | + 103.6° |
| 19-08-2010 | 9h52m24s | +12°53'59" | 335°21'51" | -23°28'56" | -25.97 m | 1.012 AE | 31.604' | --- | 71 % | + 115.3° |
| 20-08-2010 | 9h56m07s | +12°34'24" | 335°19'36" | -23°48'42" | -25.97 m | 1.012 AE | 31.611' | --- | 80 % | + 126.8° |
| 21-08-2010 | 9h59m49s | +12°14'37" | 335°17'24" | -24°08'42" | -25.97 m | 1.012 AE | 31.617' | --- | 87 % | + 138.1° |
| 22-08-2010 | 10h03m31s | +11°54'38" | 335°15'16" | -24°28'55" | -25.98 m | 1.012 AE | 31.623' | --- | 93 % | + 149.2° |
| 23-08-2010 | 10h07m12s | +11°34'28" | 335°13'12" | -24°49'20" | -25.98 m | 1.011 AE | 31.630' | --- | 97 % | + 160.2° |
| 24-08-2010 | 10h10m53s | +11°14'07" | 335°11'11" | -25°09'58" | -25.98 m | 1.011 AE | 31.637' | --- | 99 % | + 170.8° |
| 25-08-2010 | 10h14m33s | +10°53'35" | 335°09'14" | -25°30'48" | -25.98 m | 1.011 AE | 31.643' | --- | 99 % | + 176.1° |
| 26-08-2010 | 10h18m13s | +10°32'54" | 335°07'20" | -25°51'50" | -25.98 m | 1.011 AE | 31.650' | --- | 98 % | + 166.3° |
| 27-08-2010 | 10h21m53s | +10°12'02" | 335°05'29" | -26°13'03" | -25.98 m | 1.010 AE | 31.657' | --- | 95 % | + 155.5° |
| 28-08-2010 | 10h25m32s | +9°51'00" | 335°03'42" | -26°34'27" | -25.98 m | 1.010 AE | 31.664' | --- | 90 % | + 144.6° |

Sichtbarkeit

Datum/Standort

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

Objekt

Sonne

| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azim | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|-------------|-------------|-------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 29-08-2010 | 10h29m11s | + 9°29' 49" | 335°01' 57" | -26°56' 01" | -25.98 m | 1.010 AE | 31.671' | --- | 84 % | + 133.5° |
| 30-08-2010 | 10h32m49s | + 9°08' 28" | 335°00' 15" | -27°17' 46" | -25.98 m | 1.010 AE | 31.678' | --- | 77 % | + 122.3° |
| 31-08-2010 | 10h36m27s | + 8°46' 59" | 334°58' 35" | -27°39' 41" | -25.98 m | 1.010 AE | 31.685' | --- | 68 % | + 110.8° |
| 01-09-2010 | 10h40m05s | + 8°25' 21" | 334°56' 57" | -28°01' 46" | -25.98 m | 1.009 AE | 31.692' | --- | 58 % | + 99.2° |
| 02-09-2010 | 10h43m43s | + 8°03' 35" | 334°55' 22" | -28°23' 59" | -25.98 m | 1.009 AE | 31.699' | --- | 48 % | + 87.2° |
| 03-09-2010 | 10h47m20s | + 7°41' 41" | 334°53' 48" | -28°46' 21" | -25.98 m | 1.009 AE | 31.706' | --- | 37 % | + 74.8° |
| 04-09-2010 | 10h50m57s | + 7°19' 40" | 334°52' 16" | -29°08' 52" | -25.98 m | 1.009 AE | 31.714' | --- | 27 % | + 62.1° |
| 05-09-2010 | 10h54m34s | + 6°57' 31" | 334°50' 46" | -29°31' 31" | -25.98 m | 1.008 AE | 31.721' | --- | 17 % | + 49.0° |
| 06-09-2010 | 10h58m10s | + 6°35' 16" | 334°49' 16" | -29°54' 17" | -25.98 m | 1.008 AE | 31.729' | --- | 9 % | + 35.5° |
| 07-09-2010 | 11h01m47s | + 6°12' 53" | 334°47' 48" | -30°17' 10" | -25.98 m | 1.008 AE | 31.737' | --- | 3 % | + 21.8° |
| 08-09-2010 | 11h05m23s | + 5°50' 25" | 334°46' 21" | -30°40' 10" | -25.98 m | 1.008 AE | 31.745' | --- | 0 % | + 8.9° |
| 09-09-2010 | 11h08m59s | + 5°27' 51" | 334°44' 55" | -31°03' 17" | -25.98 m | 1.007 AE | 31.753' | --- | 0 % | + 8.9° |
| 10-09-2010 | 11h12m35s | + 5°05' 11" | 334°43' 30" | -31°26' 29" | -25.98 m | 1.007 AE | 31.761' | --- | 3 % | + 21.7° |
| 11-09-2010 | 11h16m10s | + 4°42' 27" | 334°42' 05" | -31°49' 48" | -25.99 m | 1.007 AE | 31.769' | --- | 9 % | + 35.2° |
| 12-09-2010 | 11h19m46s | + 4°19' 37" | 334°40' 41" | -32°13' 11" | -25.99 m | 1.007 AE | 31.777' | --- | 17 % | + 48.4° |
| 13-09-2010 | 11h23m21s | + 3°56' 43" | 334°39' 17" | -32°36' 39" | -25.99 m | 1.006 AE | 31.786' | --- | 26 % | + 61.2° |
| 14-09-2010 | 11h26m57s | + 3°33' 45" | 334°37' 53" | -33°00' 11" | -25.99 m | 1.006 AE | 31.794' | --- | 36 % | + 73.6° |
| 15-09-2010 | 11h30m32s | + 3°10' 44" | 334°36' 29" | -33°23' 48" | -25.99 m | 1.006 AE | 31.803' | --- | 46 % | + 85.6° |
| 16-09-2010 | 11h34m07s | + 2°47' 38" | 334°35' 04" | -33°47' 27" | -25.99 m | 1.006 AE | 31.812' | --- | 56 % | + 97.3° |
| 17-09-2010 | 11h37m42s | + 2°24' 30" | 334°33' 39" | -34°11' 11" | -25.99 m | 1.005 AE | 31.821' | --- | 66 % | + 108.7° |
| 18-09-2010 | 11h41m17s | + 2°01' 19" | 334°32' 12" | -34°34' 56" | -25.99 m | 1.005 AE | 31.829' | --- | 75 % | + 119.8° |
| 19-09-2010 | 11h44m52s | + 1°38' 06" | 334°30' 44" | -34°58' 45" | -25.99 m | 1.005 AE | 31.838' | --- | 83 % | + 130.8° |
| 20-09-2010 | 11h48m27s | + 1°14' 50" | 334°29' 14" | -35°22' 35" | -25.99 m | 1.004 AE | 31.847' | --- | 89 % | + 141.7° |
| 21-09-2010 | 11h52m03s | + 0°51' 33" | 334°27' 42" | -35°46' 26" | -25.99 m | 1.004 AE | 31.856' | --- | 94 % | + 152.5° |
| 22-09-2010 | 11h55m38s | + 0°28' 14" | 334°26' 08" | -36°10' 19" | -25.99 m | 1.004 AE | 31.865' | --- | 97 % | + 163.2° |
| 23-09-2010 | 11h59m13s | + 0°04' 54" | 334°24' 30" | -36°34' 13" | -25.99 m | 1.004 AE | 31.874' | --- | 99 % | + 173.2° |
| 24-09-2010 | 12h02m49s | - 0°18' 26" | 334°22' 49" | -36°58' 07" | -25.99 m | 1.003 AE | 31.882' | --- | 99 % | + 172.8° |
| 25-09-2010 | 12h06m24s | - 0°41' 47" | 334°21' 04" | -37°22' 01" | -25.99 m | 1.003 AE | 31.891' | --- | 97 % | + 162.5° |
| 26-09-2010 | 12h10m00s | - 1°05' 09" | 334°19' 16" | -37°45' 54" | -25.99 m | 1.003 AE | 31.900' | --- | 93 % | + 151.4° |
| 27-09-2010 | 12h13m36s | - 1°28' 31" | 334°17' 22" | -38°09' 47" | -25.99 m | 1.002 AE | 31.909' | --- | 88 % | + 140.1° |

Sichtbarkeit

Datum/Standort

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

Objekt

Sonne

| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azm | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|-------------|-------------|-------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 28-09-2010 | 12h17m12s | - 1°51' 52" | 334°15' 24" | -38°33' 38" | -26.00 m | 1.002 AE | 31.918' | --- | 81 % | + 128.5° |
| 29-09-2010 | 12h20m48s | - 2°15' 12" | 334°13' 19" | -38°57' 28" | -26.00 m | 1.002 AE | 31.927' | --- | 72 % | + 116.8° |
| 30-09-2010 | 12h24m25s | - 2°38' 31" | 334°11' 10" | -39°21' 15" | -26.00 m | 1.002 AE | 31.936' | --- | 63 % | + 104.8° |
| 01-10-2010 | 12h28m02s | - 3°01' 49" | 334°08' 53" | -39°45' 00" | -26.00 m | 1.001 AE | 31.945' | --- | 52 % | + 92.4° |
| 02-10-2010 | 12h31m39s | - 3°25' 05" | 334°06' 30" | -40°08' 41" | -26.00 m | 1.001 AE | 31.953' | --- | 41 % | + 79.8° |
| 03-10-2010 | 12h35m17s | - 3°48' 19" | 334°04' 00" | -40°32' 19" | -26.00 m | 1.001 AE | 31.962' | --- | 30 % | + 66.8° |
| 04-10-2010 | 12h38m54s | - 4°11' 31" | 334°01' 22" | -40°55' 54" | -26.00 m | 1.001 AE | 31.971' | --- | 20 % | + 53.6° |
| 05-10-2010 | 12h42m33s | - 4°34' 39" | 333°58' 36" | -41°19' 23" | -26.00 m | 1.000 AE | 31.980' | --- | 12 % | + 40.1° |
| 06-10-2010 | 12h46m11s | - 4°57' 44" | 333°55' 42" | -41°42' 48" | -26.00 m | 1.000 AE | 31.989' | --- | 5 % | + 26.5° |
| 07-10-2010 | 12h49m50s | - 5°20' 46" | 333°52' 39" | -42°06' 08" | -26.00 m | 1.000 AE | 31.998' | --- | 1 % | + 13.2° |
| 08-10-2010 | 12h53m29s | - 5°43' 43" | 333°49' 27" | -42°29' 22" | -26.00 m | 0.999 AE | 32.008' | --- | 0 % | + 5.9° |
| 09-10-2010 | 12h57m09s | - 6°06' 36" | 333°46' 05" | -42°52' 30" | -26.00 m | 0.999 AE | 32.017' | --- | 2 % | + 16.5° |
| 10-10-2010 | 13h00m49s | - 6°29' 24" | 333°42' 34" | -43°15' 31" | -26.00 m | 0.999 AE | 32.026' | --- | 6 % | + 29.4° |
| 11-10-2010 | 13h04m30s | - 6°52' 07" | 333°38' 53" | -43°38' 25" | -26.00 m | 0.999 AE | 32.035' | --- | 13 % | + 42.1° |
| 12-10-2010 | 13h08m11s | - 7°14' 44" | 333°35' 02" | -44°01' 11" | -26.00 m | 0.998 AE | 32.045' | --- | 21 % | + 54.5° |
| 13-10-2010 | 13h11m53s | - 7°37' 16" | 333°31' 00" | -44°23' 49" | -26.00 m | 0.998 AE | 32.054' | --- | 30 % | + 66.6° |
| 14-10-2010 | 13h15m35s | - 7°59' 40" | 333°26' 47" | -44°46' 19" | -26.01 m | 0.998 AE | 32.063' | --- | 40 % | + 78.2° |
| 15-10-2010 | 13h19m18s | - 8°21' 58" | 333°22' 23" | -45°08' 40" | -26.01 m | 0.997 AE | 32.073' | --- | 50 % | + 89.6° |
| 16-10-2010 | 13h23m01s | - 8°44' 09" | 333°17' 46" | -45°30' 51" | -26.01 m | 0.997 AE | 32.082' | --- | 59 % | + 100.7° |
| 17-10-2010 | 13h26m45s | - 9°06' 13" | 333°12' 58" | -45°52' 53" | -26.01 m | 0.997 AE | 32.091' | --- | 69 % | + 111.7° |
| 18-10-2010 | 13h30m29s | - 9°28' 08" | 333°07' 56" | -46°14' 45" | -26.01 m | 0.996 AE | 32.100' | --- | 77 % | + 122.5° |
| 19-10-2010 | 13h34m14s | - 9°49' 55" | 333°02' 42" | -46°36' 25" | -26.01 m | 0.996 AE | 32.110' | --- | 84 % | + 133.4° |
| 20-10-2010 | 13h37m59s | -10°11' 34" | 332°57' 14" | -46°57' 55" | -26.01 m | 0.996 AE | 32.119' | --- | 90 % | + 144.3° |
| 21-10-2010 | 13h41m45s | -10°33' 04" | 332°51' 31" | -47°19' 13" | -26.01 m | 0.996 AE | 32.128' | --- | 95 % | + 155.2° |
| 22-10-2010 | 13h45m32s | -10°54' 24" | 332°45' 35" | -47°40' 18" | -26.01 m | 0.995 AE | 32.137' | --- | 98 % | + 166.1° |
| 23-10-2010 | 13h49m19s | -11°15' 35" | 332°39' 23" | -48°01' 11" | -26.01 m | 0.995 AE | 32.146' | --- | 99 % | + 175.5° |
| 24-10-2010 | 13h53m08s | -11°36' 35" | 332°32' 56" | -48°21' 51" | -26.01 m | 0.995 AE | 32.155' | --- | 99 % | + 169.6° |
| 25-10-2010 | 13h56m56s | -11°57' 25" | 332°26' 13" | -48°42' 18" | -26.01 m | 0.995 AE | 32.163' | --- | 96 % | + 158.3° |
| 26-10-2010 | 14h00m46s | -12°18' 04" | 332°19' 15" | -49°02' 30" | -26.01 m | 0.994 AE | 32.172' | --- | 91 % | + 146.5° |
| 27-10-2010 | 14h04m36s | -12°38' 32" | 332°11' 59" | -49°22' 28" | -26.01 m | 0.994 AE | 32.181' | --- | 85 % | + 134.5° |

Sichtbarkeit

Datum/Standort

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

Objekt

Sonne

| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azm | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|------------|------------|------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 28-10-2010 | 14h08m27s | -12°58'48" | 332°04'27" | -49°42'11" | -26.01 m | 0.994 AE | 32.189' | --- | 77 % | + 122.3° |
| 29-10-2010 | 14h12m19s | -13°18'52" | 331°56'37" | -50°01'39" | -26.01 m | 0.993 AE | 32.198' | --- | 67 % | + 109.8° |
| 30-10-2010 | 14h16m11s | -13°38'44" | 331°48'30" | -50°20'50" | -26.01 m | 0.993 AE | 32.206' | --- | 56 % | + 97.1° |
| 31-10-2010 | 14h20m05s | -13°58'23" | 331°40'04" | -50°39'45" | -26.02 m | 0.993 AE | 32.214' | --- | 45 % | + 84.3° |
| 01-11-2010 | 14h24m09s | -14°18'36" | 354°59'55" | -53°45'07" | -26.02 m | 0.993 AE | 32.223' | --- | 34 % | + 70.6° |
| 02-11-2010 | 14h28m04s | -14°37'48" | 354°58'42" | -54°04'18" | -26.02 m | 0.992 AE | 32.231' | --- | 23 % | + 57.3° |
| 03-11-2010 | 14h32m00s | -14°56'45" | 354°57'07" | -54°23'14" | -26.02 m | 0.992 AE | 32.239' | --- | 14 % | + 43.9° |
| 04-11-2010 | 14h35m56s | -15°15'27" | 354°55'13" | -54°41'55" | -26.02 m | 0.992 AE | 32.247' | --- | 7 % | + 30.5° |
| 05-11-2010 | 14h39m54s | -15°33'55" | 354°52'57" | -55°00'20" | -26.02 m | 0.992 AE | 32.255' | --- | 2 % | + 17.3° |
| 06-11-2010 | 14h43m52s | -15°52'07" | 354°50'19" | -55°18'29" | -26.02 m | 0.991 AE | 32.263' | --- | 0 % | + 5.5° |
| 07-11-2010 | 14h47m51s | -16°10'04" | 354°47'20" | -55°36'21" | -26.02 m | 0.991 AE | 32.271' | --- | 0 % | + 10.7° |
| 08-11-2010 | 14h51m51s | -16°27'44" | 354°43'58" | -55°53'56" | -26.02 m | 0.991 AE | 32.279' | --- | 4 % | + 22.9° |
| 09-11-2010 | 14h55m52s | -16°45'08" | 354°40'14" | -56°11'14" | -26.02 m | 0.991 AE | 32.287' | --- | 9 % | + 35.2° |
| 10-11-2010 | 14h59m54s | -17°02'14" | 354°36'08" | -56°28'14" | -26.02 m | 0.990 AE | 32.295' | --- | 16 % | + 47.1° |
| 11-11-2010 | 15h03m56s | -17°19'03" | 354°31'38" | -56°44'55" | -26.02 m | 0.990 AE | 32.303' | --- | 24 % | + 58.8° |
| 12-11-2010 | 15h07m59s | -17°35'34" | 354°26'45" | -57°01'18" | -26.02 m | 0.990 AE | 32.311' | --- | 33 % | + 70.1° |
| 13-11-2010 | 15h12m04s | -17°51'47" | 354°21'29" | -57°17'22" | -26.02 m | 0.990 AE | 32.319' | --- | 43 % | + 81.2° |
| 14-11-2010 | 15h16m09s | -18°07'41" | 354°15'48" | -57°33'06" | -26.02 m | 0.990 AE | 32.326' | --- | 52 % | + 92.1° |
| 15-11-2010 | 15h20m14s | -18°23'16" | 354°09'44" | -57°48'30" | -26.02 m | 0.989 AE | 32.334' | --- | 61 % | + 102.9° |
| 16-11-2010 | 15h24m21s | -18°38'32" | 354°03'16" | -58°03'34" | -26.02 m | 0.989 AE | 32.341' | --- | 70 % | + 113.8° |
| 17-11-2010 | 15h28m28s | -18°53'28" | 353°56'24" | -58°18'17" | -26.02 m | 0.989 AE | 32.348' | --- | 79 % | + 124.7° |
| 18-11-2010 | 15h32m37s | -19°08'03" | 353°49'07" | -58°32'38" | -26.02 m | 0.989 AE | 32.356' | --- | 86 % | + 135.8° |
| 19-11-2010 | 15h36m46s | -19°22'19" | 353°41'26" | -58°46'38" | -26.03 m | 0.988 AE | 32.363' | --- | 92 % | + 147.0° |
| 20-11-2010 | 15h40m56s | -19°36'13" | 353°33'21" | -59°00'16" | -26.03 m | 0.988 AE | 32.369' | --- | 96 % | + 158.5° |
| 21-11-2010 | 15h45m06s | -19°49'46" | 353°24'51" | -59°13'31" | -26.03 m | 0.988 AE | 32.376' | --- | 99 % | + 170.2° |
| 22-11-2010 | 15h49m18s | -20°02'57" | 353°15'56" | -59°26'23" | -26.03 m | 0.988 AE | 32.383' | --- | 99 % | + 176.5° |
| 23-11-2010 | 15h53m30s | -20°15'47" | 353°06'38" | -59°38'53" | -26.03 m | 0.988 AE | 32.389' | --- | 98 % | + 164.9° |
| 24-11-2010 | 15h57m43s | -20°28'14" | 352°56'55" | -59°50'58" | -26.03 m | 0.987 AE | 32.395' | --- | 94 % | + 152.5° |
| 25-11-2010 | 16h01m57s | -20°40'19" | 352°46'49" | -60°02'39" | -26.03 m | 0.987 AE | 32.401' | --- | 88 % | + 139.8° |
| 26-11-2010 | 16h06m12s | -20°52'00" | 352°36'18" | -60°13'56" | -26.03 m | 0.987 AE | 32.407' | --- | 80 % | + 126.9° |

Sichtbarkeit

Datum/Standort

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

Objekt

Sonne

| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azm | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|------------|------------|------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 27-11-2010 | 16h10m27s | -21°03'18" | 352°25'25" | -60°24'48" | -26.03 m | 0.987 AE | 32.413' | --- | 71 % | + 114.0° |
| 28-11-2010 | 16h14m44s | -21°14'13" | 352°14'09" | -60°35'15" | -26.03 m | 0.987 AE | 32.419' | --- | 60 % | + 100.9° |
| 29-11-2010 | 16h19m00s | -21°24'43" | 352°02'30" | -60°45'16" | -26.03 m | 0.987 AE | 32.424' | --- | 48 % | + 87.8° |
| 30-11-2010 | 16h23m18s | -21°34'50" | 351°50'30" | -60°54'52" | -26.03 m | 0.986 AE | 32.429' | --- | 37 % | + 74.7° |
| 01-12-2010 | 16h27m36s | -21°44'31" | 351°38'10" | -61°04'01" | -26.03 m | 0.986 AE | 32.435' | --- | 26 % | + 61.6° |
| 02-12-2010 | 16h31m55s | -21°53'48" | 351°25'29" | -61°12'43" | -26.03 m | 0.986 AE | 32.440' | --- | 17 % | + 48.5° |
| 03-12-2010 | 16h36m15s | -22°02'40" | 351°12'29" | -61°20'58" | -26.03 m | 0.986 AE | 32.445' | --- | 9 % | + 35.5° |
| 04-12-2010 | 16h40m35s | -22°11'06" | 350°59'12" | -61°28'47" | -26.03 m | 0.986 AE | 32.450' | --- | 3 % | + 22.7° |
| 05-12-2010 | 16h44m56s | -22°19'06" | 350°45'38" | -61°36'07" | -26.03 m | 0.986 AE | 32.454' | --- | 0 % | + 10.1° |
| 06-12-2010 | 16h49m18s | -22°26'40" | 350°31'48" | -61°43'00" | -26.03 m | 0.985 AE | 32.459' | --- | 0 % | + 3.4° |
| 07-12-2010 | 16h53m40s | -22°33'48" | 350°17'45" | -61°49'25" | -26.03 m | 0.985 AE | 32.464' | --- | 1 % | + 14.9° |
| 08-12-2010 | 16h58m02s | -22°40'30" | 350°03'28" | -61°55'21" | -26.03 m | 0.985 AE | 32.468' | --- | 5 % | + 26.8° |
| 09-12-2010 | 17h02m25s | -22°46'45" | 349°49'01" | -62°00'50" | -26.03 m | 0.985 AE | 32.473' | --- | 11 % | + 38.3° |
| 10-12-2010 | 17h06m48s | -22°52'33" | 349°34'23" | -62°05'49" | -26.03 m | 0.985 AE | 32.477' | --- | 18 % | + 49.6° |
| 11-12-2010 | 17h11m12s | -22°57'54" | 349°19'37" | -62°10'20" | -26.03 m | 0.985 AE | 32.481' | --- | 26 % | + 60.7° |
| 12-12-2010 | 17h15m36s | -23°02'48" | 349°04'44" | -62°14'22" | -26.03 m | 0.985 AE | 32.485' | --- | 35 % | + 71.6° |
| 13-12-2010 | 17h20m01s | -23°07'14" | 348°49'46" | -62°17'55" | -26.03 m | 0.985 AE | 32.489' | --- | 44 % | + 82.4° |
| 14-12-2010 | 17h24m26s | -23°11'13" | 348°34'44" | -62°20'58" | -26.03 m | 0.984 AE | 32.493' | --- | 53 % | + 93.3° |
| 15-12-2010 | 17h28m51s | -23°14'44" | 348°19'39" | -62°23'33" | -26.03 m | 0.984 AE | 32.496' | --- | 63 % | + 104.2° |
| 16-12-2010 | 17h33m16s | -23°17'47" | 348°04'34" | -62°25'38" | -26.03 m | 0.984 AE | 32.500' | --- | 71 % | + 115.2° |
| 17-12-2010 | 17h37m42s | -23°20'23" | 347°49'29" | -62°27'14" | -26.03 m | 0.984 AE | 32.503' | --- | 80 % | + 126.5° |
| 18-12-2010 | 17h42m08s | -23°22'30" | 347°34'27" | -62°28'20" | -26.03 m | 0.984 AE | 32.506' | --- | 87 % | + 138.1° |
| 19-12-2010 | 17h46m34s | -23°24'10" | 347°19'28" | -62°28'58" | -26.04 m | 0.984 AE | 32.509' | --- | 93 % | + 150.1° |
| 20-12-2010 | 17h51m00s | -23°25'21" | 347°04'35" | -62°29'06" | -26.04 m | 0.984 AE | 32.512' | --- | 97 % | + 162.4° |
| 21-12-2010 | 17h55m26s | -23°26'04" | 346°49'49" | -62°28'45" | -26.04 m | 0.984 AE | 32.514' | --- | 99 % | + 175.1° |
| 22-12-2010 | 17h59m52s | -23°26'19" | 346°35'11" | -62°27'54" | -26.04 m | 0.984 AE | 32.516' | --- | 99 % | + 171.9° |
| 23-12-2010 | 18h04m19s | -23°26'06" | 346°20'42" | -62°26'35" | -26.04 m | 0.984 AE | 32.518' | --- | 96 % | + 158.7° |
| 24-12-2010 | 18h08m45s | -23°25'25" | 346°06'24" | -62°24'46" | -26.04 m | 0.984 AE | 32.520' | --- | 91 % | + 145.3° |
| 25-12-2010 | 18h13m11s | -23°24'15" | 345°52'19" | -62°22'29" | -26.04 m | 0.984 AE | 32.522' | --- | 83 % | + 131.8° |
| 26-12-2010 | 18h17m37s | -23°22'37" | 345°38'27" | -62°19'43" | -26.04 m | 0.984 AE | 32.523' | --- | 74 % | + 118.5° |

Sichtbarkeit

Datum/Standort

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

Objekt

Sonne

| Datum (0:00 Ortszeit) | Scheinbarer Ort | | Azm | Höhe | Helligkeit | Entf. | Winkeld. | Sonne Elong. | Mond | |
|-----------------------|-----------------|---------------|---------------|---------------|------------|----------|----------|--------------|-------|----------|
| | RA | Dek | | | | | | | Phase | Winkel |
| 27-12-2010 | 18h22m04s | -23° 20 ' 31" | 345° 24 ' 50" | -62° 16 ' 28" | -26.04 m | 0.984 AE | 32.524' | --- | 63 % | + 105.2° |
| 28-12-2010 | 18h26m30s | -23° 17 ' 57" | 345° 11 ' 30" | -62° 12 ' 44" | -26.04 m | 0.983 AE | 32.525' | --- | 52 % | + 92.0° |
| 29-12-2010 | 18h30m56s | -23° 14 ' 54" | 344° 58 ' 27" | -62° 08 ' 33" | -26.04 m | 0.983 AE | 32.526' | --- | 41 % | + 79.0° |
| 30-12-2010 | 18h35m21s | -23° 11 ' 24" | 344° 45 ' 43" | -62° 03 ' 53" | -26.04 m | 0.983 AE | 32.527' | --- | 30 % | + 66.2° |
| 31-12-2010 | 18h39m47s | -23° 07 ' 25" | 344° 33 ' 19" | -61° 58 ' 46" | -26.04 m | 0.983 AE | 32.528' | --- | 20 % | + 53.6° |