

## Sichtbarkeit

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 5°1'52"N  
 Län.: 127°33'46"W

### Objekt

Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-01-2010	16h13m23s	-17°07'46"	46°39'56"	-48°55'40"	8.95 m	3.438 AE	0.39"	+36.0°	99 %	+141.6°
02-01-2010	16h15m02s	-17°13'10"	47°27'41"	-48°44'16"	8.95 m	3.431 AE	0.39"	+36.6°	98 %	+126.9°
03-01-2010	16h16m40s	-17°18'29"	48°15'07"	-48°32'34"	8.96 m	3.424 AE	0.39"	+37.3°	93 %	+112.2°
04-01-2010	16h18m18s	-17°23'43"	49°02'13"	-48°20'34"	8.96 m	3.416 AE	0.39"	+37.9°	85 %	+97.6°
05-01-2010	16h19m56s	-17°28'54"	49°48'59"	-48°08'16"	8.96 m	3.409 AE	0.39"	+38.5°	76 %	+83.5°
06-01-2010	16h21m33s	-17°34'00"	50°35'25"	-47°55'39"	8.96 m	3.401 AE	0.40"	+39.1°	66 %	+69.7°
07-01-2010	16h23m11s	-17°39'01"	51°21'31"	-47°42'45"	8.97 m	3.393 AE	0.40"	+39.7°	55 %	+56.4°
08-01-2010	16h24m48s	-17°43'58"	52°07'16"	-47°29'33"	8.97 m	3.385 AE	0.40"	+40.3°	44 %	+43.6°
09-01-2010	16h26m25s	-17°48'51"	52°52'42"	-47°16'04"	8.97 m	3.377 AE	0.40"	+41.0°	34 %	+31.3°
10-01-2010	16h28m02s	-17°53'40"	53°37'49"	-47°02'18"	8.97 m	3.369 AE	0.40"	+41.6°	24 %	+19.6°
11-01-2010	16h29m38s	-17°58'24"	54°22'35"	-46°48'15"	8.97 m	3.361 AE	0.40"	+42.2°	16 %	+9.8°
12-01-2010	16h31m14s	-18°03'04"	55°07'02"	-46°33'56"	8.97 m	3.352 AE	0.40"	+42.8°	10 %	+9.6°
13-01-2010	16h32m50s	-18°07'39"	55°51'09"	-46°19'20"	8.98 m	3.344 AE	0.40"	+43.5°	4 %	+19.0°
14-01-2010	16h34m26s	-18°12'11"	56°34'57"	-46°04'27"	8.98 m	3.335 AE	0.40"	+44.1°	1 %	+29.9°
15-01-2010	16h36m01s	-18°16'38"	57°18'26"	-45°49'19"	8.98 m	3.327 AE	0.40"	+44.7°	0 %	+41.0°
16-01-2010	16h37m36s	-18°21'01"	58°01'36"	-45°33'55"	8.98 m	3.318 AE	0.41"	+45.4°	0 %	+52.1°
17-01-2010	16h39m11s	-18°25'20"	58°44'27"	-45°18'15"	8.98 m	3.309 AE	0.41"	+46.0°	2 %	+63.3°
18-01-2010	16h40m46s	-18°29'34"	59°26'59"	-45°02'19"	8.98 m	3.300 AE	0.41"	+46.6°	6 %	+74.5°
19-01-2010	16h42m20s	-18°33'45"	60°09'13"	-44°46'08"	8.98 m	3.291 AE	0.41"	+47.3°	11 %	+85.8°
20-01-2010	16h43m54s	-18°37'51"	60°51'09"	-44°29'42"	8.98 m	3.281 AE	0.41"	+47.9°	18 %	+97.2°
21-01-2010	16h45m27s	-18°41'54"	61°32'47"	-44°13'02"	8.98 m	3.272 AE	0.41"	+48.5°	26 %	+108.7°
22-01-2010	16h47m00s	-18°45'52"	62°14'08"	-43°56'06"	8.98 m	3.263 AE	0.41"	+49.2°	35 %	+120.4°
23-01-2010	16h48m33s	-18°49'47"	62°55'11"	-43°38'56"	8.98 m	3.253 AE	0.41"	+49.8°	45 %	+132.4°
24-01-2010	16h50m06s	-18°53'37"	63°35'57"	-43°21'31"	8.98 m	3.243 AE	0.41"	+50.5°	55 %	+144.7°
25-01-2010	16h51m38s	-18°57'24"	64°16'26"	-43°03'53"	8.98 m	3.234 AE	0.42"	+51.1°	65 %	+157.3°
26-01-2010	16h53m09s	-19°01'06"	64°56'39"	-42°46'00"	8.98 m	3.224 AE	0.42"	+51.8°	75 %	+169.5°
27-01-2010	16h54m41s	-19°04'45"	65°36'36"	-42°27'53"	8.98 m	3.214 AE	0.42"	+52.4°	84 %	+171.8°
28-01-2010	16h56m11s	-19°08'20"	66°16'16"	-42°09'33"	8.98 m	3.204 AE	0.42"	+53.0°	92 %	+159.2°
29-01-2010	16h57m42s	-19°11'52"	66°55'41"	-41°50'59"	8.98 m	3.194 AE	0.42"	+53.7°	97 %	+144.8°
30-01-2010	16h59m12s	-19°15'19"	67°34'50"	-41°32'12"	8.97 m	3.183 AE	0.42"	+54.4°	99 %	+129.9°

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### Objekt

Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
31-01-2010	17h00m42s	-19° 18 ' 43"	68° 13 ' 45"	-41° 13 ' 12"	8.97 m	3.173 AE	0.42"	+ 55.0°	99 %	+ 114.8°
01-02-2010	17h02m11s	-19° 22 ' 04"	68° 52 ' 24"	-40° 53 ' 59"	8.97 m	3.163 AE	0.43"	+ 55.7°	95 %	+ 99.9°
02-02-2010	17h03m40s	-19° 25 ' 21"	69° 30 ' 50"	-40° 34 ' 33"	8.97 m	3.152 AE	0.43"	+ 56.3°	89 %	+ 85.3°
03-02-2010	17h05m08s	-19° 28 ' 34"	70° 09 ' 01"	-40° 14 ' 54"	8.97 m	3.142 AE	0.43"	+ 57.0°	81 %	+ 71.1°
04-02-2010	17h06m36s	-19° 31 ' 44"	70° 46 ' 59"	-39° 55 ' 03"	8.96 m	3.131 AE	0.43"	+ 57.6°	71 %	+ 57.5°
05-02-2010	17h08m03s	-19° 34 ' 50"	71° 24 ' 43"	-39° 34 ' 59"	8.96 m	3.120 AE	0.43"	+ 58.3°	60 %	+ 44.4°
06-02-2010	17h09m30s	-19° 37 ' 53"	72° 02 ' 14"	-39° 14 ' 43"	8.96 m	3.110 AE	0.43"	+ 59.0°	50 %	+ 31.8°
07-02-2010	17h10m56s	-19° 40 ' 53"	72° 39 ' 34"	-38° 54 ' 14"	8.96 m	3.099 AE	0.43"	+ 59.6°	40 %	+ 19.9°
08-02-2010	17h12m22s	-19° 43 ' 49"	73° 16 ' 40"	-38° 33 ' 34"	8.95 m	3.088 AE	0.44"	+ 60.3°	30 %	+ 9.4°
09-02-2010	17h13m48s	-19° 46 ' 42"	73° 53 ' 36"	-38° 12 ' 41"	8.95 m	3.077 AE	0.44"	+ 61.0°	22 %	+ 8.1°
10-02-2010	17h15m13s	-19° 49 ' 32"	74° 30 ' 20"	-37° 51 ' 37"	8.95 m	3.065 AE	0.44"	+ 61.7°	14 %	+ 17.7°
11-02-2010	17h16m37s	-19° 52 ' 19"	75° 06 ' 53"	-37° 30 ' 21"	8.95 m	3.054 AE	0.44"	+ 62.4°	8 %	+ 28.6°
12-02-2010	17h18m01s	-19° 55 ' 03"	75° 43 ' 16"	-37° 08 ' 53"	8.94 m	3.043 AE	0.44"	+ 63.0°	4 %	+ 39.8°
13-02-2010	17h19m24s	-19° 57 ' 44"	76° 19 ' 29"	-36° 47 ' 13"	8.94 m	3.031 AE	0.44"	+ 63.7°	1 %	+ 51.0°
14-02-2010	17h20m47s	-20° 00 ' 22"	76° 55 ' 32"	-36° 25 ' 22"	8.93 m	3.020 AE	0.45"	+ 64.4°	0 %	+ 62.3°
15-02-2010	17h22m09s	-20° 02 ' 57"	77° 31 ' 26"	-36° 03 ' 20"	8.93 m	3.008 AE	0.45"	+ 65.1°	0 %	+ 73.6°
16-02-2010	17h23m30s	-20° 05 ' 29"	78° 07 ' 11"	-35° 41 ' 06"	8.93 m	2.997 AE	0.45"	+ 65.8°	3 %	+ 85.0°
17-02-2010	17h24m51s	-20° 07 ' 59"	78° 42 ' 48"	-35° 18 ' 42"	8.92 m	2.985 AE	0.45"	+ 66.5°	7 %	+ 96.6°
18-02-2010	17h26m11s	-20° 10 ' 26"	79° 18 ' 18"	-34° 56 ' 06"	8.92 m	2.973 AE	0.45"	+ 67.2°	13 %	+ 108.3°
19-02-2010	17h27m30s	-20° 12 ' 50"	79° 53 ' 39"	-34° 33 ' 19"	8.91 m	2.962 AE	0.45"	+ 67.8°	20 %	+ 120.2°
20-02-2010	17h28m49s	-20° 15 ' 12"	80° 28 ' 54"	-34° 10 ' 21"	8.91 m	2.950 AE	0.46"	+ 68.5°	29 %	+ 132.3°
21-02-2010	17h30m08s	-20° 17 ' 31"	81° 04 ' 02"	-33° 47 ' 12"	8.90 m	2.938 AE	0.46"	+ 69.2°	38 %	+ 144.7°
22-02-2010	17h31m25s	-20° 19 ' 48"	81° 39 ' 03"	-33° 23 ' 53"	8.90 m	2.926 AE	0.46"	+ 69.9°	49 %	+ 157.4°
23-02-2010	17h32m42s	-20° 22 ' 02"	82° 13 ' 59"	-33° 00 ' 23"	8.89 m	2.914 AE	0.46"	+ 70.6°	60 %	+ 170.0°
24-02-2010	17h33m58s	-20° 24 ' 15"	82° 48 ' 50"	-32° 36 ' 42"	8.89 m	2.902 AE	0.46"	+ 71.3°	70 %	+ 173.3°
25-02-2010	17h35m13s	-20° 26 ' 25"	83° 23 ' 35"	-32° 12 ' 52"	8.88 m	2.890 AE	0.47"	+ 72.0°	80 %	+ 160.3°
26-02-2010	17h36m28s	-20° 28 ' 33"	83° 58 ' 16"	-31° 48 ' 51"	8.88 m	2.877 AE	0.47"	+ 72.8°	89 %	+ 146.0°
27-02-2010	17h37m42s	-20° 30 ' 40"	84° 32 ' 52"	-31° 24 ' 40"	8.87 m	2.865 AE	0.47"	+ 73.5°	95 %	+ 131.2°
28-02-2010	17h38m55s	-20° 32 ' 44"	85° 07 ' 25"	-31° 00 ' 18"	8.86 m	2.853 AE	0.47"	+ 74.2°	99 %	+ 116.1°
01-03-2010	17h40m08s	-20° 34 ' 46"	85° 41 ' 55"	-30° 35 ' 47"	8.86 m	2.841 AE	0.47"	+ 74.9°	99 %	+ 101.1°

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Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
02-03-2010	17h41m20s	-20°36'47"	86°16'21"	-30°11'06"	8.85 m	2.828 AE	0.48"	+75.6°	97 %	+86.3°
03-03-2010	17h42m31s	-20°38'46"	86°50'45"	-29°46'16"	8.84 m	2.816 AE	0.48"	+76.3°	92 %	+71.8°
04-03-2010	17h43m41s	-20°40'43"	87°25'07"	-29°21'15"	8.84 m	2.803 AE	0.48"	+77.1°	85 %	+57.8°
05-03-2010	17h44m50s	-20°42'39"	87°59'27"	-28°56'06"	8.83 m	2.791 AE	0.48"	+77.8°	76 %	+44.4°
06-03-2010	17h45m59s	-20°44'33"	88°33'46"	-28°30'46"	8.82 m	2.778 AE	0.48"	+78.5°	67 %	+31.5°
07-03-2010	17h47m06s	-20°46'26"	89°08'05"	-28°05'17"	8.81 m	2.766 AE	0.49"	+79.3°	57 %	+19.2°
08-03-2010	17h48m13s	-20°48'18"	89°42'23"	-27°39'39"	8.81 m	2.753 AE	0.49"	+80.0°	47 %	+8.1°
09-03-2010	17h49m19s	-20°50'09"	90°16'41"	-27°13'52"	8.80 m	2.740 AE	0.49"	+80.8°	37 %	+7.5°
10-03-2010	17h50m24s	-20°51'58"	90°51'01"	-26°47'55"	8.79 m	2.728 AE	0.49"	+81.5°	28 %	+17.9°
11-03-2010	17h51m29s	-20°53'47"	91°25'21"	-26°21'49"	8.78 m	2.715 AE	0.50"	+82.3°	20 %	+29.1°
12-03-2010	17h52m32s	-20°55'34"	91°59'43"	-25°55'34"	8.77 m	2.702 AE	0.50"	+83.0°	13 %	+40.4°
13-03-2010	17h53m34s	-20°57'21"	92°34'08"	-25°29'11"	8.77 m	2.689 AE	0.50"	+83.8°	7 %	+51.7°
14-03-2010	17h54m36s	-20°59'07"	93°08'35"	-25°02'38"	8.76 m	2.677 AE	0.50"	+84.5°	3 %	+63.2°
15-03-2010	17h55m36s	-21°00'52"	93°43'05"	-24°35'57"	8.75 m	2.664 AE	0.50"	+85.3°	0 %	+74.7°
16-03-2010	17h56m35s	-21°02'37"	94°17'39"	-24°09'07"	8.74 m	2.651 AE	0.51"	+86.0°	0 %	+86.4°
17-03-2010	17h57m34s	-21°04'21"	94°52'17"	-23°42'09"	8.73 m	2.638 AE	0.51"	+86.8°	1 %	+98.3°
18-03-2010	17h58m31s	-21°06'05"	95°26'59"	-23°15'02"	8.72 m	2.625 AE	0.51"	+87.6°	4 %	+110.3°
19-03-2010	17h59m28s	-21°07'49"	96°01'47"	-22°47'47"	8.71 m	2.613 AE	0.51"	+88.3°	9 %	+122.6°
20-03-2010	18h00m23s	-21°09'33"	96°36'40"	-22°20'24"	8.70 m	2.600 AE	0.52"	+89.1°	16 %	+135.0°
21-03-2010	18h01m17s	-21°11'16"	97°11'40"	-21°52'53"	8.69 m	2.587 AE	0.52"	+89.9°	24 %	+147.7°
22-03-2010	18h02m11s	-21°13'00"	97°46'45"	-21°25'14"	8.68 m	2.574 AE	0.52"	+90.7°	34 %	+160.7°
23-03-2010	18h03m03s	-21°14'43"	98°21'58"	-20°57'28"	8.67 m	2.561 AE	0.52"	+91.5°	44 %	+173.5°
24-03-2010	18h03m54s	-21°16'27"	98°57'19"	-20°29'34"	8.66 m	2.548 AE	0.53"	+92.3°	55 %	+171.6°
25-03-2010	18h04m44s	-21°18'11"	99°32'47"	-20°01'32"	8.65 m	2.535 AE	0.53"	+93.1°	66 %	+157.9°
26-03-2010	18h05m33s	-21°19'56"	100°08'23"	-19°33'24"	8.64 m	2.523 AE	0.53"	+93.9°	77 %	+143.6°
27-03-2010	18h06m20s	-21°21'41"	100°44'09"	-19°05'09"	8.63 m	2.510 AE	0.54"	+94.7°	86 %	+129.0°
28-03-2010	18h07m07s	-21°23'27"	101°20'04"	-18°36'46"	8.61 m	2.497 AE	0.54"	+95.5°	93 %	+114.2°
29-03-2010	18h07m50s	-21°25'08"	90°45'33"	-27°37'49"	8.60 m	2.485 AE	0.54"	+96.3°	97 %	+99.8°
30-03-2010	18h08m34s	-21°26'55"	91°23'42"	-27°08'32"	8.59 m	2.472 AE	0.54"	+97.1°	99 %	+85.1°
31-03-2010	18h09m17s	-21°28'43"	92°01'56"	-26°39'04"	8.58 m	2.459 AE	0.55"	+97.9°	98 %	+70.6°

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Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-04-2010	18h09m59s	-21°30'32"	92°40'14"	-26°09'26"	8.57 m	2.446 AE	0.55"	+ 98.7°	95 %	+ 56.5°
02-04-2010	18h10m40s	-21°32'22"	93°18'38"	-25°39'37"	8.56 m	2.434 AE	0.55"	+ 99.6°	89 %	+ 42.9°
03-04-2010	18h11m19s	-21°34'13"	93°57'07"	-25°09'39"	8.54 m	2.421 AE	0.56"	+ 100.4°	82 %	+ 29.7°
04-04-2010	18h11m57s	-21°36'05"	94°35'43"	-24°39'31"	8.53 m	2.408 AE	0.56"	+ 101.3°	73 %	+ 17.0°
05-04-2010	18h12m34s	-21°37'58"	95°14'25"	-24°09'14"	8.52 m	2.396 AE	0.56"	+ 102.1°	64 %	+ 5.6°
06-04-2010	18h13m09s	-21°39'53"	95°53'15"	-23°38'47"	8.50 m	2.383 AE	0.56"	+ 102.9°	54 %	+ 8.6°
07-04-2010	18h13m44s	-21°41'49"	96°32'12"	-23°08'11"	8.49 m	2.371 AE	0.57"	+ 103.8°	45 %	+ 19.9°
08-04-2010	18h14m16s	-21°43'47"	97°11'19"	-22°37'26"	8.48 m	2.358 AE	0.57"	+ 104.7°	35 %	+ 31.5°
09-04-2010	18h14m48s	-21°45'46"	97°50'35"	-22°06'32"	8.46 m	2.346 AE	0.57"	+ 105.5°	27 %	+ 43.0°
10-04-2010	18h15m18s	-21°47'47"	98°30'00"	-21°35'30"	8.45 m	2.334 AE	0.58"	+ 106.4°	19 %	+ 54.6°
11-04-2010	18h15m46s	-21°49'50"	99°09'36"	-21°04'19"	8.44 m	2.321 AE	0.58"	+ 107.3°	12 %	+ 66.2°
12-04-2010	18h16m14s	-21°51'55"	99°49'23"	-20°33'00"	8.42 m	2.309 AE	0.58"	+ 108.1°	6 %	+ 78.0°
13-04-2010	18h16m40s	-21°54'02"	100°29'21"	-20°01'34"	8.41 m	2.297 AE	0.59"	+ 109.0°	2 %	+ 90.0°
14-04-2010	18h17m04s	-21°56'11"	101°09'31"	-19°29'59"	8.39 m	2.285 AE	0.59"	+ 109.9°	0 %	+ 102.3°
15-04-2010	18h17m27s	-21°58'21"	101°49'55"	-18°58'17"	8.38 m	2.273 AE	0.59"	+ 110.8°	0 %	+ 114.7°
16-04-2010	18h17m48s	-22°00'35"	102°30'31"	-18°26'29"	8.36 m	2.261 AE	0.59"	+ 111.7°	2 %	+ 127.5°
17-04-2010	18h18m08s	-22°02'50"	103°11'22"	-17°54'33"	8.35 m	2.249 AE	0.60"	+ 112.6°	6 %	+ 140.4°
18-04-2010	18h18m27s	-22°05'07"	103°52'27"	-17°22'31"	8.33 m	2.237 AE	0.60"	+ 113.5°	12 %	+ 153.6°
19-04-2010	18h18m44s	-22°07'27"	104°33'46"	-16°50'23"	8.32 m	2.225 AE	0.60"	+ 114.4°	20 %	+ 167.0°
20-04-2010	18h18m59s	-22°09'50"	105°15'22"	-16°18'10"	8.30 m	2.214 AE	0.61"	+ 115.3°	29 %	+ 178.4°
21-04-2010	18h19m13s	-22°12'14"	105°57'14"	-15°45'51"	8.29 m	2.202 AE	0.61"	+ 116.3°	40 %	+ 165.3°
22-04-2010	18h19m25s	-22°14'42"	106°39'22"	-15°13'27"	8.27 m	2.191 AE	0.61"	+ 117.2°	51 %	+ 151.2°
23-04-2010	18h19m36s	-22°17'11"	107°21'47"	-14°40'59"	8.25 m	2.179 AE	0.62"	+ 118.1°	63 %	+ 136.9°
24-04-2010	18h19m45s	-22°19'44"	108°04'31"	-14°08'27"	8.24 m	2.168 AE	0.62"	+ 119.1°	73 %	+ 122.5°
25-04-2010	18h19m53s	-22°22'18"	108°47'33"	-13°35'51"	8.22 m	2.157 AE	0.62"	+ 120.0°	83 %	+ 108.0°
26-04-2010	18h19m59s	-22°24'56"	109°30'53"	-13°03'13"	8.20 m	2.146 AE	0.63"	+ 121.0°	91 %	+ 93.5°
27-04-2010	18h20m04s	-22°27'36"	110°14'33"	-12°30'31"	8.19 m	2.135 AE	0.63"	+ 121.9°	96 %	+ 79.0°
28-04-2010	18h20m06s	-22°30'19"	110°58'34"	-11°57'48"	8.17 m	2.124 AE	0.63"	+ 122.9°	99 %	+ 64.7°
29-04-2010	18h20m08s	-22°33'04"	111°42'55"	-11°25'03"	8.15 m	2.114 AE	0.64"	+ 123.8°	99 %	+ 50.7°
30-04-2010	18h20m07s	-22°35'52"	112°27'37"	-10°52'17"	8.14 m	2.103 AE	0.64"	+ 124.8°	97 %	+ 37.0°

## Sichtbarkeit

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 5°1'52"N  
 Län.: 127°33'46"W

### Objekt

Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-05-2010	18h20m06s	-22°38'42"	113°12'41"	-10°19'31"	8.12 m	2.093 AE	0.64"	+125.8°	93 %	+23.7°
02-05-2010	18h20m02s	-22°41'36"	113°58'08"	-9°46'44"	8.10 m	2.083 AE	0.65"	+126.8°	87 %	+10.8°
03-05-2010	18h19m57s	-22°44'32"	114°43'58"	-9°13'59"	8.08 m	2.073 AE	0.65"	+127.8°	79 %	+3.0°
04-05-2010	18h19m50s	-22°47'30"	115°30'11"	-8°41'14"	8.06 m	2.063 AE	0.65"	+128.8°	71 %	+14.5°
05-05-2010	18h19m42s	-22°50'31"	116°16'49"	-8°08'32"	8.05 m	2.053 AE	0.65"	+129.8°	62 %	+26.4°
06-05-2010	18h19m31s	-22°53'35"	117°03'51"	-7°35'52"	8.03 m	2.043 AE	0.66"	+130.8°	52 %	+38.3°
07-05-2010	18h19m20s	-22°56'41"	117°51'19"	-7°03'16"	8.01 m	2.034 AE	0.66"	+131.8°	43 %	+50.1°
08-05-2010	18h19m06s	-22°59'50"	118°39'13"	-6°30'43"	7.99 m	2.024 AE	0.66"	+132.8°	33 %	+61.9°
09-05-2010	18h18m51s	-23°03'02"	119°27'33"	-5°58'16"	7.97 m	2.015 AE	0.67"	+133.8°	25 %	+73.8°
10-05-2010	18h18m34s	-23°06'15"	120°16'20"	-5°25'54"	7.95 m	2.006 AE	0.67"	+134.9°	17 %	+85.9°
11-05-2010	18h18m16s	-23°09'32"	121°05'34"	-4°53'39"	7.93 m	1.997 AE	0.67"	+135.9°	10 %	+98.2°
12-05-2010	18h17m56s	-23°12'50"	121°55'17"	-4°21'31"	7.91 m	1.988 AE	0.68"	+137.0°	5 %	+110.8°
13-05-2010	18h17m34s	-23°16'11"	122°45'27"	-3°49'31"	7.90 m	1.980 AE	0.68"	+138.0°	1 %	+123.7°
14-05-2010	18h17m11s	-23°19'34"	123°36'07"	-3°17'41"	7.88 m	1.972 AE	0.68"	+139.1°	0 %	+137.0°
15-05-2010	18h16m46s	-23°22'59"	124°27'15"	-2°46'00"	7.86 m	1.964 AE	0.68"	+140.2°	0 %	+150.5°
16-05-2010	18h16m20s	-23°26'26"	125°18'53"	-2°14'31"	7.84 m	1.956 AE	0.69"	+141.2°	4 %	+164.3°
17-05-2010	18h15m52s	-23°29'54"	126°11'01"	-1°43'14"	7.82 m	1.948 AE	0.69"	+142.3°	9 %	+178.3°
18-05-2010	18h15m22s	-23°33'25"	127°03'38"	-1°12'10"	7.80 m	1.940 AE	0.69"	+143.4°	17 %	+167.5°
19-05-2010	18h14m51s	-23°36'57"	127°56'46"	-0°41'20"	7.78 m	1.933 AE	0.70"	+144.4°	27 %	+153.2°
20-05-2010	18h14m19s	-23°40'31"	128°50'24"	-0°10'45"	7.76 m	1.926 AE	0.70"	+145.5°	37 %	+138.8°
21-05-2010	18h13m45s	-23°44'06"	129°44'33"	+0°19'32"	7.74 m	1.919 AE	0.70"	+146.6°	49 %	+124.5°
22-05-2010	18h13m09s	-23°47'42"	130°39'13"	+0°49'33"	7.71 m	1.912 AE	0.70"	+147.7°	60 %	+110.1°
23-05-2010	18h12m32s	-23°51'20"	131°34'24"	+1°19'15"	7.69 m	1.906 AE	0.71"	+148.8°	71 %	+95.7°
24-05-2010	18h11m54s	-23°54'58"	132°30'06"	+1°48'37"	7.67 m	1.900 AE	0.71"	+149.9°	81 %	+81.4°
25-05-2010	18h11m14s	-23°58'38"	133°26'18"	+2°17'38"	7.65 m	1.894 AE	0.71"	+151.1°	89 %	+67.3°
26-05-2010	18h10m33s	-24°02'18"	134°23'02"	+2°46'17"	7.63 m	1.888 AE	0.71"	+152.2°	94 %	+53.3°
27-05-2010	18h09m51s	-24°05'58"	135°20'17"	+3°14'32"	7.61 m	1.883 AE	0.71"	+153.3°	98 %	+39.5°
28-05-2010	18h09m07s	-24°09'39"	136°18'02"	+3°42'23"	7.59 m	1.877 AE	0.72"	+154.4°	99 %	+25.9°
29-05-2010	18h08m22s	-24°13'21"	137°16'19"	+4°09'48"	7.57 m	1.872 AE	0.72"	+155.5°	98 %	+12.7°
30-05-2010	18h07m36s	-24°17'02"	138°15'06"	+4°36'46"	7.54 m	1.867 AE	0.72"	+156.7°	95 %	+1.0°

## Sichtbarkeit

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 5°1'52"N  
 Län.: 127°33'46"W

### Objekt

Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
31-05-2010	18h06m49s	-24° 20 ' 43"	139° 14 ' 24"	+5° 03 ' 16"	7.52 m	1.863 AE	0.72"	+ 157.8°	91 %	+ 13.1°
01-06-2010	18h06m01s	-24° 24 ' 24"	140° 14 ' 12"	+5° 29 ' 16"	7.50 m	1.859 AE	0.72"	+ 158.9°	84 %	+ 25.5°
02-06-2010	18h05m11s	-24° 28 ' 05"	141° 14 ' 29"	+5° 54 ' 46"	7.48 m	1.854 AE	0.72"	+ 160.1°	77 %	+ 37.7°
03-06-2010	18h04m21s	-24° 31 ' 46"	142° 15 ' 16"	+6° 19 ' 43"	7.46 m	1.851 AE	0.73"	+ 161.2°	68 %	+ 49.8°
04-06-2010	18h03m29s	-24° 35 ' 25"	143° 16 ' 32"	+6° 44 ' 08"	7.43 m	1.847 AE	0.73"	+ 162.4°	59 %	+ 61.8°
05-06-2010	18h02m37s	-24° 39 ' 04"	144° 18 ' 17"	+7° 07 ' 58"	7.41 m	1.844 AE	0.73"	+ 163.5°	50 %	+ 73.8°
06-06-2010	18h01m44s	-24° 42 ' 42"	145° 20 ' 29"	+7° 31 ' 12"	7.39 m	1.841 AE	0.73"	+ 164.7°	40 %	+ 85.9°
07-06-2010	18h00m50s	-24° 46 ' 19"	146° 23 ' 08"	+7° 53 ' 49"	7.36 m	1.838 AE	0.73"	+ 165.8°	31 %	+ 98.2°
08-06-2010	17h59m55s	-24° 49 ' 54"	147° 26 ' 13"	+8° 15 ' 49"	7.34 m	1.836 AE	0.73"	+ 167.0°	22 %	+ 110.7°
09-06-2010	17h58m59s	-24° 53 ' 28"	148° 29 ' 44"	+8° 37 ' 09"	7.31 m	1.833 AE	0.73"	+ 168.1°	14 %	+ 123.6°
10-06-2010	17h58m03s	-24° 57 ' 01"	149° 33 ' 39"	+8° 57 ' 49"	7.29 m	1.831 AE	0.73"	+ 169.3°	7 %	+ 136.8°
11-06-2010	17h57m07s	-25° 00 ' 31"	150° 37 ' 58"	+9° 17 ' 48"	7.26 m	1.830 AE	0.73"	+ 170.4°	3 %	+ 150.3°
12-06-2010	17h56m09s	-25° 04 ' 00"	151° 42 ' 39"	+9° 37 ' 04"	7.23 m	1.828 AE	0.74"	+ 171.6°	0 %	+ 164.3°
13-06-2010	17h55m11s	-25° 07 ' 27"	152° 47 ' 41"	+9° 55 ' 37"	7.20 m	1.827 AE	0.74"	+ 172.7°	0 %	+ 178.0°
14-06-2010	17h54m13s	-25° 10 ' 52"	153° 53 ' 04"	+10° 13 ' 25"	7.17 m	1.826 AE	0.74"	+ 173.8°	2 %	+ 166.8°
15-06-2010	17h53m15s	-25° 14 ' 14"	154° 58 ' 45"	+10° 30 ' 28"	7.14 m	1.826 AE	0.74"	+ 174.9°	7 %	+ 152.1°
16-06-2010	17h52m16s	-25° 17 ' 35"	156° 04 ' 43"	+10° 46 ' 44"	7.11 m	1.826 AE	0.74"	+ 176.0°	15 %	+ 137.4°
17-06-2010	17h51m17s	-25° 20 ' 52"	157° 10 ' 57"	+11° 02 ' 13"	7.08 m	1.826 AE	0.74"	+ 176.9°	24 %	+ 122.7°
18-06-2010	17h50m18s	-25° 24 ' 07"	158° 17 ' 26"	+11° 16 ' 54"	7.06 m	1.826 AE	0.74"	+ 177.7°	35 %	+ 108.1°
19-06-2010	17h49m19s	-25° 27 ' 20"	159° 24 ' 08"	+11° 30 ' 47"	7.05 m	1.826 AE	0.74"	+ 177.9°	47 %	+ 93.6°
20-06-2010	17h48m20s	-25° 30 ' 30"	160° 31 ' 01"	+11° 43 ' 50"	7.06 m	1.827 AE	0.74"	+ 177.6°	58 %	+ 79.3°
21-06-2010	17h47m21s	-25° 33 ' 36"	161° 38 ' 04"	+11° 56 ' 04"	7.09 m	1.828 AE	0.74"	+ 176.8°	69 %	+ 65.3°
22-06-2010	17h46m22s	-25° 36 ' 40"	162° 45 ' 16"	+12° 07 ' 26"	7.13 m	1.830 AE	0.73"	+ 175.8°	78 %	+ 51.4°
23-06-2010	17h45m23s	-25° 39 ' 42"	163° 52 ' 34"	+12° 17 ' 58"	7.16 m	1.831 AE	0.73"	+ 174.8°	86 %	+ 37.8°
24-06-2010	17h44m25s	-25° 42 ' 40"	164° 59 ' 58"	+12° 27 ' 39"	7.19 m	1.833 AE	0.73"	+ 173.7°	93 %	+ 24.4°
25-06-2010	17h43m27s	-25° 45 ' 35"	166° 07 ' 24"	+12° 36 ' 28"	7.22 m	1.836 AE	0.73"	+ 172.6°	97 %	+ 11.1°
26-06-2010	17h42m29s	-25° 48 ' 27"	167° 14 ' 53"	+12° 44 ' 25"	7.25 m	1.838 AE	0.73"	+ 171.4°	99 %	+ 1.9°
27-06-2010	17h41m31s	-25° 51 ' 16"	168° 22 ' 22"	+12° 51 ' 31"	7.28 m	1.841 AE	0.73"	+ 170.3°	99 %	+ 14.6°
28-06-2010	17h40m35s	-25° 54 ' 02"	169° 29 ' 49"	+12° 57 ' 44"	7.31 m	1.844 AE	0.73"	+ 169.2°	97 %	+ 27.2°
29-06-2010	17h39m38s	-25° 56 ' 45"	170° 37 ' 13"	+13° 03 ' 05"	7.34 m	1.847 AE	0.73"	+ 168.0°	94 %	+ 39.6°

## Sichtbarkeit

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 5°1'52"N  
 Län.: 127°33'46"W

### Objekt

Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
30-06-2010	17h38m43s	-25°59'25"	171°44'32"	+13°07'33"	7.37 m	1.851 AE	0.73"	+166.9°	89 %	+51.8°
01-07-2010	17h37m48s	-26°02'01"	172°51'45"	+13°11'10"	7.39 m	1.855 AE	0.72"	+165.8°	82 %	+63.9°
02-07-2010	17h36m54s	-26°04'35"	173°58'49"	+13°13'55"	7.42 m	1.859 AE	0.72"	+164.6°	74 %	+76.0°
03-07-2010	17h36m00s	-26°07'06"	175°05'43"	+13°15'48"	7.45 m	1.863 AE	0.72"	+163.4°	66 %	+88.0°
04-07-2010	17h35m08s	-26°09'34"	176°12'26"	+13°16'50"	7.47 m	1.868 AE	0.72"	+162.3°	56 %	+100.1°
05-07-2010	17h34m16s	-26°11'58"	177°18'56"	+13°17'00"	7.50 m	1.873 AE	0.72"	+161.2°	47 %	+112.4°
06-07-2010	17h33m25s	-26°14'20"	178°25'11"	+13°16'21"	7.52 m	1.878 AE	0.72"	+160.1°	37 %	+124.9°
07-07-2010	17h32m35s	-26°16'39"	179°31'09"	+13°14'51"	7.55 m	1.883 AE	0.71"	+158.9°	27 %	+137.8°
08-07-2010	17h31m47s	-26°18'55"	180°36'49"	+13°12'31"	7.57 m	1.889 AE	0.71"	+157.8°	18 %	+151.0°
09-07-2010	17h30m59s	-26°21'09"	181°42'11"	+13°09'23"	7.60 m	1.895 AE	0.71"	+156.7°	11 %	+164.5°
10-07-2010	17h30m13s	-26°23'20"	182°47'11"	+13°05'27"	7.62 m	1.901 AE	0.71"	+155.5°	4 %	+177.3°
11-07-2010	17h29m27s	-26°25'28"	183°51'49"	+13°00'42"	7.64 m	1.907 AE	0.70"	+154.4°	1 %	+166.5°
12-07-2010	17h28m43s	-26°27'33"	184°56'04"	+12°55'11"	7.67 m	1.914 AE	0.70"	+153.3°	0 %	+151.8°
13-07-2010	17h28m01s	-26°29'37"	185°59'54"	+12°48'55"	7.69 m	1.921 AE	0.70"	+152.2°	1 %	+136.9°
14-07-2010	17h27m19s	-26°31'37"	187°03'18"	+12°41'52"	7.72 m	1.928 AE	0.70"	+151.1°	6 %	+121.9°
15-07-2010	17h26m39s	-26°33'36"	188°06'15"	+12°34'06"	7.74 m	1.935 AE	0.69"	+150.0°	13 %	+107.0°
16-07-2010	17h26m00s	-26°35'32"	189°08'43"	+12°25'36"	7.76 m	1.943 AE	0.69"	+148.9°	22 %	+92.2°
17-07-2010	17h25m23s	-26°37'26"	190°10'43"	+12°16'24"	7.78 m	1.951 AE	0.69"	+147.8°	33 %	+77.7°
18-07-2010	17h24m47s	-26°39'18"	191°12'12"	+12°06'31"	7.81 m	1.959 AE	0.69"	+146.7°	44 %	+63.5°
19-07-2010	17h24m13s	-26°41'08"	192°13'11"	+11°55'57"	7.83 m	1.967 AE	0.68"	+145.7°	55 %	+49.7°
20-07-2010	17h23m40s	-26°42'57"	193°13'38"	+11°44'43"	7.85 m	1.975 AE	0.68"	+144.6°	66 %	+36.1°
21-07-2010	17h23m08s	-26°44'43"	194°13'32"	+11°32'51"	7.87 m	1.984 AE	0.68"	+143.5°	75 %	+22.9°
22-07-2010	17h22m38s	-26°46'28"	195°12'54"	+11°20'22"	7.90 m	1.993 AE	0.67"	+142.5°	84 %	+9.9°
23-07-2010	17h22m10s	-26°48'11"	196°11'43"	+11°07'16"	7.92 m	2.002 AE	0.67"	+141.4°	90 %	+3.0°
24-07-2010	17h21m43s	-26°49'53"	197°09'58"	+10°53'34"	7.94 m	2.011 AE	0.67"	+140.3°	95 %	+15.5°
25-07-2010	17h21m18s	-26°51'33"	198°07'38"	+10°39'19"	7.96 m	2.021 AE	0.67"	+139.3°	98 %	+27.9°
26-07-2010	17h20m54s	-26°53'12"	199°04'44"	+10°24'30"	7.98 m	2.030 AE	0.66"	+138.3°	99 %	+40.2°
27-07-2010	17h20m32s	-26°54'49"	200°01'16"	+10°09'09"	8.00 m	2.040 AE	0.66"	+137.2°	99 %	+52.3°
28-07-2010	17h20m11s	-26°56'26"	200°57'12"	+9°53'17"	8.02 m	2.050 AE	0.66"	+136.2°	96 %	+64.3°
29-07-2010	17h19m52s	-26°58'01"	201°52'33"	+9°36'54"	8.05 m	2.060 AE	0.65"	+135.2°	92 %	+76.3°

## Sichtbarkeit

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 5°1'52"N  
 Län.: 127°33'46"W

### Objekt

Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
30-07-2010	17h19m35s	-26°59'35"	202°47'18"	+9°20'03"	8.07 m	2.070 AE	0.65"	+134.2°	87 %	+88.3°
31-07-2010	17h19m19s	-27°01'08"	203°41'28"	+9°02'43"	8.09 m	2.081 AE	0.65"	+133.2°	80 %	+100.2°
01-08-2010	17h19m05s	-27°02'41"	204°35'02"	+8°44'56"	8.11 m	2.092 AE	0.64"	+132.2°	71 %	+112.2°
02-08-2010	17h18m53s	-27°04'12"	205°28'01"	+8°26'43"	8.13 m	2.102 AE	0.64"	+131.2°	62 %	+124.4°
03-08-2010	17h18m42s	-27°05'43"	206°20'24"	+8°08'06"	8.15 m	2.113 AE	0.64"	+130.2°	53 %	+136.7°
04-08-2010	17h18m33s	-27°07'13"	207°12'12"	+7°49'04"	8.17 m	2.124 AE	0.63"	+129.2°	42 %	+149.4°
05-08-2010	17h18m25s	-27°08'42"	208°03'24"	+7°29'38"	8.19 m	2.136 AE	0.63"	+128.2°	32 %	+162.3°
06-08-2010	17h18m19s	-27°10'11"	208°54'01"	+7°09'51"	8.21 m	2.147 AE	0.63"	+127.2°	22 %	+175.0°
07-08-2010	17h18m15s	-27°11'39"	209°44'03"	+6°49'43"	8.23 m	2.159 AE	0.62"	+126.3°	14 %	+169.6°
08-08-2010	17h18m12s	-27°13'06"	210°33'30"	+6°29'14"	8.25 m	2.170 AE	0.62"	+125.3°	7 %	+155.5°
09-08-2010	17h18m11s	-27°14'33"	211°22'23"	+6°08'26"	8.26 m	2.182 AE	0.62"	+124.3°	2 %	+140.9°
10-08-2010	17h18m12s	-27°16'00"	212°10'41"	+5°47'19"	8.28 m	2.194 AE	0.61"	+123.4°	0 %	+125.9°
11-08-2010	17h18m14s	-27°17'26"	212°58'24"	+5°25'55"	8.30 m	2.206 AE	0.61"	+122.4°	1 %	+110.9°
12-08-2010	17h18m18s	-27°18'52"	213°45'34"	+5°04'14"	8.32 m	2.219 AE	0.61"	+121.5°	5 %	+95.8°
13-08-2010	17h18m23s	-27°20'17"	214°32'11"	+4°42'17"	8.34 m	2.231 AE	0.60"	+120.6°	11 %	+81.0°
14-08-2010	17h18m30s	-27°21'42"	215°18'14"	+4°20'05"	8.36 m	2.243 AE	0.60"	+119.6°	20 %	+66.5°
15-08-2010	17h18m39s	-27°23'07"	216°03'45"	+3°57'38"	8.38 m	2.256 AE	0.60"	+118.7°	30 %	+52.4°
16-08-2010	17h18m49s	-27°24'31"	216°48'43"	+3°34'58"	8.39 m	2.269 AE	0.59"	+117.8°	41 %	+38.6°
17-08-2010	17h19m00s	-27°25'55"	217°33'10"	+3°12'05"	8.41 m	2.281 AE	0.59"	+116.9°	51 %	+25.3°
18-08-2010	17h19m14s	-27°27'19"	218°17'06"	+2°48'59"	8.43 m	2.294 AE	0.59"	+116.0°	62 %	+12.4°
19-08-2010	17h19m28s	-27°28'43"	219°00'30"	+2°25'42"	8.45 m	2.307 AE	0.58"	+115.1°	71 %	+1.8°
20-08-2010	17h19m45s	-27°30'06"	219°43'24"	+2°02'14"	8.46 m	2.320 AE	0.58"	+114.2°	80 %	+12.9°
21-08-2010	17h20m02s	-27°31'29"	220°25'49"	+1°38'36"	8.48 m	2.333 AE	0.58"	+113.3°	87 %	+25.0°
22-08-2010	17h20m22s	-27°32'52"	221°07'44"	+1°14'48"	8.50 m	2.346 AE	0.57"	+112.4°	93 %	+37.0°
23-08-2010	17h20m42s	-27°34'14"	221°49'10"	+0°50'50"	8.51 m	2.360 AE	0.57"	+111.5°	97 %	+49.0°
24-08-2010	17h21m05s	-27°35'37"	222°30'09"	+0°26'44"	8.53 m	2.373 AE	0.57"	+110.6°	99 %	+60.9°
25-08-2010	17h21m28s	-27°36'58"	223°10'39"	+0°02'31"	8.55 m	2.387 AE	0.56"	+109.8°	99 %	+72.7°
26-08-2010	17h21m53s	-27°38'20"	223°50'42"	-0°21'50"	8.56 m	2.400 AE	0.56"	+108.9°	98 %	+84.5°
27-08-2010	17h22m20s	-27°39'41"	224°30'18"	-0°46'18"	8.58 m	2.414 AE	0.56"	+108.0°	95 %	+96.3°
28-08-2010	17h22m47s	-27°41'02"	225°09'28"	-1°10'53"	8.59 m	2.427 AE	0.55"	+107.2°	90 %	+108.2°

## Sichtbarkeit

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 5°1'52"N  
 Län.: 127°33'46"W

### Objekt

Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
29-08-2010	17h23m17s	-27° 42 ' 23"	225° 48 ' 13"	-1° 35 ' 33"	8.61 m	2.441 AE	0.55"	+ 106.3°	84 %	+ 120.2°
30-08-2010	17h23m47s	-27° 43 ' 43"	226° 26 ' 32"	-2° 00 ' 19"	8.62 m	2.455 AE	0.55"	+ 105.5°	77 %	+ 132.3°
31-08-2010	17h24m19s	-27° 45 ' 03"	227° 04 ' 26"	-2° 25 ' 11"	8.64 m	2.469 AE	0.54"	+ 104.6°	68 %	+ 144.5°
01-09-2010	17h24m52s	-27° 46 ' 22"	227° 41 ' 56"	-2° 50 ' 06"	8.65 m	2.482 AE	0.54"	+ 103.8°	58 %	+ 156.9°
02-09-2010	17h25m27s	-27° 47 ' 41"	228° 19 ' 02"	-3° 15 ' 06"	8.67 m	2.496 AE	0.54"	+ 102.9°	48 %	+ 169.4°
03-09-2010	17h26m03s	-27° 48 ' 59"	228° 55 ' 46"	-3° 40 ' 10"	8.68 m	2.510 AE	0.54"	+ 102.1°	37 %	+ 174.9°
04-09-2010	17h26m40s	-27° 50 ' 17"	229° 32 ' 06"	-4° 05 ' 17"	8.70 m	2.524 AE	0.53"	+ 101.3°	27 %	+ 162.6°
05-09-2010	17h27m18s	-27° 51 ' 34"	230° 08 ' 04"	-4° 30 ' 26"	8.71 m	2.538 AE	0.53"	+ 100.5°	17 %	+ 148.7°
06-09-2010	17h27m58s	-27° 52 ' 50"	230° 43 ' 40"	-4° 55 ' 39"	8.73 m	2.552 AE	0.53"	+ 99.6°	9 %	+ 134.4°
07-09-2010	17h28m39s	-27° 54 ' 06"	231° 18 ' 55"	-5° 20 ' 53"	8.74 m	2.567 AE	0.52"	+ 98.8°	3 %	+ 119.7°
08-09-2010	17h29m21s	-27° 55 ' 21"	231° 53 ' 49"	-5° 46 ' 10"	8.75 m	2.581 AE	0.52"	+ 98.0°	0 %	+ 104.8°
09-09-2010	17h30m05s	-27° 56 ' 36"	232° 28 ' 23"	-6° 11 ' 27"	8.77 m	2.595 AE	0.52"	+ 97.2°	0 %	+ 89.8°
10-09-2010	17h30m49s	-27° 57 ' 50"	233° 02 ' 36"	-6° 36 ' 46"	8.78 m	2.609 AE	0.52"	+ 96.4°	3 %	+ 75.1°
11-09-2010	17h31m35s	-27° 59 ' 02"	233° 36 ' 31"	-7° 02 ' 06"	8.79 m	2.623 AE	0.51"	+ 95.6°	9 %	+ 60.6°
12-09-2010	17h32m22s	-28° 00 ' 14"	234° 10 ' 06"	-7° 27 ' 27"	8.81 m	2.638 AE	0.51"	+ 94.8°	17 %	+ 46.5°
13-09-2010	17h33m10s	-28° 01 ' 25"	234° 43 ' 23"	-7° 52 ' 48"	8.82 m	2.652 AE	0.51"	+ 94.0°	26 %	+ 32.8°
14-09-2010	17h33m59s	-28° 02 ' 36"	235° 16 ' 22"	-8° 18 ' 09"	8.83 m	2.666 AE	0.50"	+ 93.2°	36 %	+ 19.6°
15-09-2010	17h34m50s	-28° 03 ' 45"	235° 49 ' 04"	-8° 43 ' 30"	8.84 m	2.680 AE	0.50"	+ 92.4°	46 %	+ 7.1°
16-09-2010	17h35m41s	-28° 04 ' 53"	236° 21 ' 29"	-9° 08 ' 51"	8.85 m	2.695 AE	0.50"	+ 91.7°	56 %	+ 6.5°
17-09-2010	17h36m34s	-28° 06 ' 00"	236° 53 ' 37"	-9° 34 ' 11"	8.87 m	2.709 AE	0.50"	+ 90.9°	66 %	+ 18.3°
18-09-2010	17h37m27s	-28° 07 ' 06"	237° 25 ' 29"	-9° 59 ' 30"	8.88 m	2.723 AE	0.49"	+ 90.1°	75 %	+ 30.2°
19-09-2010	17h38m22s	-28° 08 ' 11"	237° 57 ' 06"	-10° 24 ' 49"	8.89 m	2.738 AE	0.49"	+ 89.3°	83 %	+ 41.9°
20-09-2010	17h39m18s	-28° 09 ' 14"	238° 28 ' 28"	-10° 50 ' 06"	8.90 m	2.752 AE	0.49"	+ 88.6°	89 %	+ 53.6°
21-09-2010	17h40m15s	-28° 10 ' 16"	238° 59 ' 35"	-11° 15 ' 22"	8.91 m	2.766 AE	0.49"	+ 87.8°	94 %	+ 65.3°
22-09-2010	17h41m12s	-28° 11 ' 17"	239° 30 ' 28"	-11° 40 ' 37"	8.92 m	2.780 AE	0.48"	+ 87.0°	97 %	+ 77.0°
23-09-2010	17h42m11s	-28° 12 ' 17"	240° 01 ' 07"	-12° 05 ' 49"	8.93 m	2.795 AE	0.48"	+ 86.3°	99 %	+ 88.8°
24-09-2010	17h43m11s	-28° 13 ' 15"	240° 31 ' 33"	-12° 31 ' 01"	8.94 m	2.809 AE	0.48"	+ 85.5°	99 %	+ 100.6°
25-09-2010	17h44m12s	-28° 14 ' 11"	241° 01 ' 46"	-12° 56 ' 10"	8.95 m	2.823 AE	0.48"	+ 84.8°	97 %	+ 112.5°
26-09-2010	17h45m13s	-28° 15 ' 07"	241° 31 ' 47"	-13° 21 ' 17"	8.96 m	2.837 AE	0.47"	+ 84.0°	93 %	+ 124.5°
27-09-2010	17h46m16s	-28° 16 ' 00"	242° 01 ' 35"	-13° 46 ' 22"	8.97 m	2.852 AE	0.47"	+ 83.3°	88 %	+ 136.6°

## Sichtbarkeit

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 5°1'52"N  
 Län.: 127°33'46"W

### Objekt

Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
28-09-2010	17h47m19s	-28° 16 ' 52"	242° 31 ' 12"	-14° 11 ' 24"	8.98 m	2.866 AE	0.47"	+ 82.5°	81 %	+ 148.9°
29-09-2010	17h48m24s	-28° 17 ' 42"	243° 00 ' 38"	-14° 36 ' 24"	8.99 m	2.880 AE	0.47"	+ 81.8°	72 %	+ 161.2°
30-09-2010	17h49m29s	-28° 18 ' 30"	243° 29 ' 52"	-15° 01 ' 21"	9.00 m	2.894 AE	0.46"	+ 81.0°	63 %	+ 172.8°
01-10-2010	17h50m35s	-28° 19 ' 17"	243° 58 ' 56"	-15° 26 ' 15"	9.01 m	2.908 AE	0.46"	+ 80.3°	52 %	+ 170.9°
02-10-2010	17h51m42s	-28° 20 ' 02"	244° 27 ' 50"	-15° 51 ' 06"	9.02 m	2.922 AE	0.46"	+ 79.6°	41 %	+ 158.3°
03-10-2010	17h52m50s	-28° 20 ' 44"	244° 56 ' 35"	-16° 15 ' 54"	9.03 m	2.936 AE	0.46"	+ 78.8°	30 %	+ 144.8°
04-10-2010	17h53m59s	-28° 21 ' 25"	245° 25 ' 09"	-16° 40 ' 39"	9.04 m	2.950 AE	0.46"	+ 78.1°	20 %	+ 130.8°
05-10-2010	17h55m08s	-28° 22 ' 04"	245° 53 ' 35"	-17° 05 ' 21"	9.05 m	2.964 AE	0.45"	+ 77.4°	12 %	+ 116.5°
06-10-2010	17h56m19s	-28° 22 ' 41"	246° 21 ' 52"	-17° 29 ' 59"	9.06 m	2.978 AE	0.45"	+ 76.7°	5 %	+ 102.0°
07-10-2010	17h57m30s	-28° 23 ' 15"	246° 50 ' 01"	-17° 54 ' 33"	9.06 m	2.992 AE	0.45"	+ 76.0°	1 %	+ 87.4°
08-10-2010	17h58m42s	-28° 23 ' 48"	247° 18 ' 02"	-18° 19 ' 04"	9.07 m	3.006 AE	0.45"	+ 75.2°	0 %	+ 72.9°
09-10-2010	17h59m55s	-28° 24 ' 18"	247° 45 ' 55"	-18° 43 ' 31"	9.08 m	3.020 AE	0.45"	+ 74.5°	2 %	+ 58.5°
10-10-2010	18h01m08s	-28° 24 ' 46"	248° 13 ' 42"	-19° 07 ' 55"	9.09 m	3.034 AE	0.44"	+ 73.8°	6 %	+ 44.5°
11-10-2010	18h02m23s	-28° 25 ' 12"	248° 41 ' 21"	-19° 32 ' 14"	9.09 m	3.048 AE	0.44"	+ 73.1°	13 %	+ 30.9°
12-10-2010	18h03m38s	-28° 25 ' 35"	249° 08 ' 54"	-19° 56 ' 30"	9.10 m	3.061 AE	0.44"	+ 72.4°	21 %	+ 17.9°
13-10-2010	18h04m53s	-28° 25 ' 56"	249° 36 ' 21"	-20° 20 ' 42"	9.11 m	3.075 AE	0.44"	+ 71.7°	30 %	+ 6.1°
14-10-2010	18h06m10s	-28° 26 ' 14"	250° 03 ' 42"	-20° 44 ' 50"	9.12 m	3.088 AE	0.44"	+ 71.0°	40 %	+ 8.7°
15-10-2010	18h07m27s	-28° 26 ' 30"	250° 30 ' 57"	-21° 08 ' 54"	9.12 m	3.102 AE	0.43"	+ 70.3°	50 %	+ 20.2°
16-10-2010	18h08m45s	-28° 26 ' 44"	250° 58 ' 08"	-21° 32 ' 54"	9.13 m	3.115 AE	0.43"	+ 69.6°	59 %	+ 31.9°
17-10-2010	18h10m04s	-28° 26 ' 55"	251° 25 ' 14"	-21° 56 ' 50"	9.14 m	3.129 AE	0.43"	+ 68.9°	69 %	+ 43.5°
18-10-2010	18h11m23s	-28° 27 ' 03"	251° 52 ' 16"	-22° 20 ' 42"	9.14 m	3.142 AE	0.43"	+ 68.2°	77 %	+ 55.1°
19-10-2010	18h12m43s	-28° 27 ' 08"	252° 19 ' 14"	-22° 44 ' 29"	9.15 m	3.155 AE	0.43"	+ 67.5°	84 %	+ 66.7°
20-10-2010	18h14m03s	-28° 27 ' 11"	252° 46 ' 09"	-23° 08 ' 13"	9.15 m	3.169 AE	0.42"	+ 66.8°	90 %	+ 78.3°
21-10-2010	18h15m24s	-28° 27 ' 11"	253° 13 ' 00"	-23° 31 ' 52"	9.16 m	3.182 AE	0.42"	+ 66.1°	95 %	+ 90.0°
22-10-2010	18h16m46s	-28° 27 ' 09"	253° 39 ' 49"	-23° 55 ' 27"	9.16 m	3.195 AE	0.42"	+ 65.4°	98 %	+ 101.8°
23-10-2010	18h18m08s	-28° 27 ' 03"	254° 06 ' 34"	-24° 18 ' 58"	9.17 m	3.208 AE	0.42"	+ 64.7°	99 %	+ 113.8°
24-10-2010	18h19m31s	-28° 26 ' 55"	254° 33 ' 18"	-24° 42 ' 24"	9.18 m	3.221 AE	0.42"	+ 64.0°	99 %	+ 126.0°
25-10-2010	18h20m55s	-28° 26 ' 44"	255° 00 ' 00"	-25° 05 ' 46"	9.18 m	3.234 AE	0.42"	+ 63.3°	96 %	+ 138.3°
26-10-2010	18h22m19s	-28° 26 ' 29"	255° 26 ' 40"	-25° 29 ' 04"	9.19 m	3.246 AE	0.41"	+ 62.6°	91 %	+ 150.8°
27-10-2010	18h23m43s	-28° 26 ' 12"	255° 53 ' 19"	-25° 52 ' 17"	9.19 m	3.259 AE	0.41"	+ 62.0°	85 %	+ 163.1°

## Sichtbarkeit

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 5°1'52"N  
 Län.: 127°33'46"W

### Objekt

Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
28-10-2010	18h25m08s	-28° 25 ' 52"	256° 19 ' 57"	-26° 15 ' 25"	9.19 m	3.272 AE	0.41"	+ 61.3°	77 %	+ 173.5°
29-10-2010	18h26m34s	-28° 25 ' 28"	256° 46 ' 34"	-26° 38 ' 30"	9.20 m	3.284 AE	0.41"	+ 60.6°	67 %	+ 168.2°
30-10-2010	18h28m00s	-28° 25 ' 02"	257° 13 ' 11"	-27° 01 ' 29"	9.20 m	3.297 AE	0.41"	+ 59.9°	56 %	+ 155.7°
31-10-2010	18h29m27s	-28° 24 ' 32"	257° 39 ' 49"	-27° 24 ' 24"	9.21 m	3.309 AE	0.41"	+ 59.3°	45 %	+ 142.3°
01-11-2010	18h30m58s	-28° 23 ' 57"	269° 02 ' 29"	-37° 16 ' 27"	9.21 m	3.322 AE	0.40"	+ 58.5°	34 %	+ 128.1°
02-11-2010	18h32m26s	-28° 23 ' 21"	269° 31 ' 30"	-37° 39 ' 42"	9.22 m	3.334 AE	0.40"	+ 57.9°	23 %	+ 114.1°
03-11-2010	18h33m54s	-28° 22 ' 41"	270° 00 ' 37"	-38° 02 ' 51"	9.22 m	3.347 AE	0.40"	+ 57.2°	14 %	+ 100.1°
04-11-2010	18h35m23s	-28° 21 ' 58"	270° 29 ' 52"	-38° 25 ' 52"	9.22 m	3.359 AE	0.40"	+ 56.5°	7 %	+ 86.0°
05-11-2010	18h36m52s	-28° 21 ' 12"	270° 59 ' 14"	-38° 48 ' 47"	9.23 m	3.371 AE	0.40"	+ 55.9°	2 %	+ 71.8°
06-11-2010	18h38m22s	-28° 20 ' 23"	271° 28 ' 44"	-39° 11 ' 34"	9.23 m	3.382 AE	0.40"	+ 55.2°	0 %	+ 57.9°
07-11-2010	18h39m52s	-28° 19 ' 30"	271° 58 ' 22"	-39° 34 ' 15"	9.23 m	3.394 AE	0.40"	+ 54.5°	0 %	+ 44.2°
08-11-2010	18h41m22s	-28° 18 ' 33"	272° 28 ' 09"	-39° 56 ' 48"	9.23 m	3.406 AE	0.39"	+ 53.9°	4 %	+ 30.9°
09-11-2010	18h42m53s	-28° 17 ' 34"	272° 58 ' 05"	-40° 19 ' 15"	9.24 m	3.418 AE	0.39"	+ 53.2°	9 %	+ 18.2°
10-11-2010	18h44m25s	-28° 16 ' 30"	273° 28 ' 10"	-40° 41 ' 34"	9.24 m	3.429 AE	0.39"	+ 52.5°	16 %	+ 7.1°
11-11-2010	18h45m57s	-28° 15 ' 24"	273° 58 ' 26"	-41° 03 ' 47"	9.24 m	3.440 AE	0.39"	+ 51.9°	24 %	+ 9.3°
12-11-2010	18h47m29s	-28° 14 ' 13"	274° 28 ' 53"	-41° 25 ' 52"	9.24 m	3.452 AE	0.39"	+ 51.2°	33 %	+ 20.3°
13-11-2010	18h49m01s	-28° 13 ' 00"	274° 59 ' 30"	-41° 47 ' 51"	9.25 m	3.463 AE	0.39"	+ 50.6°	43 %	+ 31.8°
14-11-2010	18h50m34s	-28° 11 ' 42"	275° 30 ' 19"	-42° 09 ' 42"	9.25 m	3.474 AE	0.39"	+ 49.9°	52 %	+ 43.3°
15-11-2010	18h52m08s	-28° 10 ' 21"	276° 01 ' 19"	-42° 31 ' 26"	9.25 m	3.485 AE	0.39"	+ 49.3°	61 %	+ 54.7°
16-11-2010	18h53m41s	-28° 08 ' 57"	276° 32 ' 32"	-42° 53 ' 03"	9.25 m	3.496 AE	0.38"	+ 48.6°	70 %	+ 66.1°
17-11-2010	18h55m15s	-28° 07 ' 29"	277° 03 ' 58"	-43° 14 ' 32"	9.25 m	3.507 AE	0.38"	+ 47.9°	79 %	+ 77.7°
18-11-2010	18h56m50s	-28° 05 ' 57"	277° 35 ' 37"	-43° 35 ' 54"	9.25 m	3.517 AE	0.38"	+ 47.3°	86 %	+ 89.3°
19-11-2010	18h58m25s	-28° 04 ' 22"	278° 07 ' 30"	-43° 57 ' 09"	9.25 m	3.528 AE	0.38"	+ 46.6°	92 %	+ 101.2°
20-11-2010	19h00m00s	-28° 02 ' 43"	278° 39 ' 37"	-44° 18 ' 16"	9.25 m	3.538 AE	0.38"	+ 46.0°	96 %	+ 113.3°
21-11-2010	19h01m35s	-28° 01 ' 01"	279° 11 ' 59"	-44° 39 ' 16"	9.26 m	3.549 AE	0.38"	+ 45.3°	99 %	+ 125.7°
22-11-2010	19h03m11s	-27° 59 ' 14"	279° 44 ' 36"	-45° 00 ' 09"	9.26 m	3.559 AE	0.38"	+ 44.7°	99 %	+ 138.3°
23-11-2010	19h04m46s	-27° 57 ' 24"	280° 17 ' 29"	-45° 20 ' 53"	9.26 m	3.569 AE	0.38"	+ 44.0°	98 %	+ 151.0°
24-11-2010	19h06m23s	-27° 55 ' 31"	280° 50 ' 38"	-45° 41 ' 30"	9.26 m	3.579 AE	0.38"	+ 43.4°	94 %	+ 163.5°
25-11-2010	19h07m59s	-27° 53 ' 33"	281° 24 ' 03"	-46° 01 ' 59"	9.26 m	3.589 AE	0.37"	+ 42.8°	88 %	+ 172.9°
26-11-2010	19h09m36s	-27° 51 ' 32"	281° 57 ' 46"	-46° 22 ' 20"	9.26 m	3.599 AE	0.37"	+ 42.1°	80 %	+ 166.3°

## Sichtbarkeit

### Datum/Standort

Datum: 01-01-2010  
 Zeitraum: 1 Jahr  
 Br.: 5°1'52"N  
 Län.: 127°33'46"W

### Objekt

Zwergplanet:  
 Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
27-11-2010	19h11m13s	-27° 49 ' 27"	282° 31 ' 46"	-46° 42 ' 33"	9.26 m	3.608 AE	0.37"	+ 41.5°	71 %	+ 153.6°
28-11-2010	19h12m50s	-27° 47 ' 18"	283° 06 ' 05"	-47° 02 ' 38"	9.26 m	3.618 AE	0.37"	+ 40.8°	60 %	+ 140.3°
29-11-2010	19h14m28s	-27° 45 ' 06"	283° 40 ' 42"	-47° 22 ' 34"	9.25 m	3.627 AE	0.37"	+ 40.2°	48 %	+ 126.7°
30-11-2010	19h16m06s	-27° 42 ' 50"	284° 15 ' 38"	-47° 42 ' 22"	9.25 m	3.637 AE	0.37"	+ 39.5°	37 %	+ 113.1°
01-12-2010	19h17m44s	-27° 40 ' 30"	284° 50 ' 54"	-48° 02 ' 02"	9.25 m	3.646 AE	0.37"	+ 38.9°	26 %	+ 99.4°
02-12-2010	19h19m22s	-27° 38 ' 06"	285° 26 ' 29"	-48° 21 ' 33"	9.25 m	3.655 AE	0.37"	+ 38.3°	17 %	+ 85.8°
03-12-2010	19h21m00s	-27° 35 ' 38"	286° 02 ' 26"	-48° 40 ' 55"	9.25 m	3.664 AE	0.37"	+ 37.6°	9 %	+ 72.2°
04-12-2010	19h22m39s	-27° 33 ' 07"	286° 38 ' 43"	-49° 00 ' 08"	9.25 m	3.673 AE	0.37"	+ 37.0°	3 %	+ 58.8°
05-12-2010	19h24m18s	-27° 30 ' 31"	287° 15 ' 23"	-49° 19 ' 13"	9.25 m	3.681 AE	0.37"	+ 36.4°	0 %	+ 45.6°
06-12-2010	19h25m57s	-27° 27 ' 52"	287° 52 ' 24"	-49° 38 ' 08"	9.25 m	3.690 AE	0.36"	+ 35.7°	0 %	+ 32.7°
07-12-2010	19h27m36s	-27° 25 ' 09"	288° 29 ' 49"	-49° 56 ' 54"	9.24 m	3.698 AE	0.36"	+ 35.1°	1 %	+ 20.3°
08-12-2010	19h29m16s	-27° 22 ' 23"	289° 07 ' 36"	-50° 15 ' 31"	9.24 m	3.707 AE	0.36"	+ 34.4°	5 %	+ 9.4°
09-12-2010	19h30m55s	-27° 19 ' 32"	289° 45 ' 48"	-50° 33 ' 58"	9.24 m	3.715 AE	0.36"	+ 33.8°	11 %	+ 8.6°
10-12-2010	19h32m35s	-27° 16 ' 38"	290° 24 ' 24"	-50° 52 ' 15"	9.24 m	3.723 AE	0.36"	+ 33.2°	18 %	+ 18.6°
11-12-2010	19h34m15s	-27° 13 ' 40"	291° 03 ' 25"	-51° 10 ' 23"	9.23 m	3.731 AE	0.36"	+ 32.5°	26 %	+ 29.8°
12-12-2010	19h35m55s	-27° 10 ' 39"	291° 42 ' 51"	-51° 28 ' 21"	9.23 m	3.738 AE	0.36"	+ 31.9°	35 %	+ 41.1°
13-12-2010	19h37m35s	-27° 07 ' 33"	292° 22 ' 44"	-51° 46 ' 09"	9.23 m	3.746 AE	0.36"	+ 31.3°	44 %	+ 52.5°
14-12-2010	19h39m15s	-27° 04 ' 24"	293° 03 ' 03"	-52° 03 ' 46"	9.23 m	3.754 AE	0.36"	+ 30.7°	53 %	+ 63.8°
15-12-2010	19h40m56s	-27° 01 ' 11"	293° 43 ' 50"	-52° 21 ' 14"	9.22 m	3.761 AE	0.36"	+ 30.0°	63 %	+ 75.2°
16-12-2010	19h42m36s	-26° 57 ' 55"	294° 25 ' 04"	-52° 38 ' 30"	9.22 m	3.768 AE	0.36"	+ 29.4°	71 %	+ 86.8°
17-12-2010	19h44m17s	-26° 54 ' 34"	295° 06 ' 47"	-52° 55 ' 36"	9.21 m	3.775 AE	0.36"	+ 28.8°	80 %	+ 98.7°
18-12-2010	19h45m58s	-26° 51 ' 10"	295° 48 ' 58"	-53° 12 ' 30"	9.21 m	3.782 AE	0.36"	+ 28.2°	87 %	+ 110.8°
19-12-2010	19h47m39s	-26° 47 ' 43"	296° 31 ' 39"	-53° 29 ' 13"	9.21 m	3.789 AE	0.35"	+ 27.6°	93 %	+ 123.3°
20-12-2010	19h49m20s	-26° 44 ' 12"	297° 14 ' 49"	-53° 45 ' 45"	9.20 m	3.796 AE	0.35"	+ 26.9°	97 %	+ 136.0°
21-12-2010	19h51m01s	-26° 40 ' 37"	297° 58 ' 30"	-54° 02 ' 05"	9.20 m	3.802 AE	0.35"	+ 26.3°	99 %	+ 149.0°
22-12-2010	19h52m42s	-26° 36 ' 58"	298° 42 ' 42"	-54° 18 ' 13"	9.19 m	3.809 AE	0.35"	+ 25.7°	99 %	+ 161.7°
23-12-2010	19h54m23s	-26° 33 ' 16"	299° 27 ' 25"	-54° 34 ' 08"	9.19 m	3.815 AE	0.35"	+ 25.1°	96 %	+ 171.5°
24-12-2010	19h56m04s	-26° 29 ' 30"	300° 12 ' 40"	-54° 49 ' 52"	9.18 m	3.821 AE	0.35"	+ 24.5°	91 %	+ 166.0°
25-12-2010	19h57m45s	-26° 25 ' 41"	300° 58 ' 27"	-55° 05 ' 22"	9.18 m	3.827 AE	0.35"	+ 23.9°	83 %	+ 153.3°
26-12-2010	19h59m27s	-26° 21 ' 48"	301° 44 ' 46"	-55° 20 ' 39"	9.17 m	3.833 AE	0.35"	+ 23.3°	74 %	+ 139.8°

**Sichtbarkeit****Datum/Standort**

Datum: 01-01-2010  
Zeitraum: 1 Jahr  
Br.: 5°1'52"N  
Län.: 127°33'46"W

**Objekt**

Zwergplanet:  
Ceres

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
27-12-2010	20h01m08s	-26° 17 ' 51"	302° 31 ' 39"	-55° 35 ' 43"	9.17 m	3.839 AE	0.35"	+ 22.6°	63 %	+ 126.1°
28-12-2010	20h02m50s	-26° 13 ' 51"	303° 19 ' 05"	-55° 50 ' 32"	9.16 m	3.844 AE	0.35"	+ 22.0°	52 %	+ 112.5°
29-12-2010	20h04m31s	-26° 09 ' 47"	304° 07 ' 05"	-56° 05 ' 08"	9.16 m	3.850 AE	0.35"	+ 21.4°	41 %	+ 99.0°
30-12-2010	20h06m13s	-26° 05 ' 40"	304° 55 ' 39"	-56° 19 ' 30"	9.15 m	3.855 AE	0.35"	+ 20.8°	30 %	+ 85.7°
31-12-2010	20h07m54s	-26° 01 ' 29"	305° 44 ' 47"	-56° 33 ' 37"	9.15 m	3.860 AE	0.35"	+ 20.2°	20 %	+ 72.6°