

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 5°15'43"N
 Län.: 86°54'27"W

Objekt

Zwergplanet:
 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-01-2010	18h13m52s	-18° 17 ' 32"	359° 47 ' 48"	-57° 49 ' 08"	14.10 m	32.735 AE	0.10"	+ 8.7°	99 %	+ 169.1°
02-01-2010	18h14m01s	-18° 17 ' 34"	1° 29 ' 10"	-57° 48 ' 45"	14.10 m	32.733 AE	0.10"	+ 9.6°	98 %	+ 155.0°
03-01-2010	18h14m10s	-18° 17 ' 35"	3° 10 ' 28"	-57° 47 ' 18"	14.10 m	32.731 AE	0.10"	+ 10.4°	93 %	+ 140.1°
04-01-2010	18h14m19s	-18° 17 ' 36"	4° 51 ' 37"	-57° 44 ' 47"	14.10 m	32.729 AE	0.10"	+ 11.3°	85 %	+ 125.2°
05-01-2010	18h14m28s	-18° 17 ' 37"	6° 32 ' 30"	-57° 41 ' 12"	14.10 m	32.726 AE	0.10"	+ 12.1°	76 %	+ 110.7°
06-01-2010	18h14m37s	-18° 17 ' 38"	8° 13 ' 04"	-57° 36 ' 34"	14.10 m	32.723 AE	0.10"	+ 13.0°	66 %	+ 96.5°
07-01-2010	18h14m46s	-18° 17 ' 38"	9° 53 ' 13"	-57° 30 ' 52"	14.10 m	32.720 AE	0.10"	+ 13.9°	55 %	+ 82.8°
08-01-2010	18h14m55s	-18° 17 ' 39"	11° 32 ' 53"	-57° 24 ' 08"	14.10 m	32.716 AE	0.10"	+ 14.9°	44 %	+ 69.5°
09-01-2010	18h15m04s	-18° 17 ' 39"	13° 11 ' 58"	-57° 16 ' 23"	14.10 m	32.712 AE	0.10"	+ 15.8°	34 %	+ 56.7°
10-01-2010	18h15m13s	-18° 17 ' 39"	14° 50 ' 24"	-57° 07 ' 36"	14.10 m	32.708 AE	0.10"	+ 16.7°	24 %	+ 44.2°
11-01-2010	18h15m21s	-18° 17 ' 38"	16° 28 ' 07"	-56° 57 ' 50"	14.11 m	32.704 AE	0.10"	+ 17.6°	16 %	+ 32.0°
12-01-2010	18h15m30s	-18° 17 ' 38"	18° 05 ' 03"	-56° 47 ' 03"	14.11 m	32.699 AE	0.10"	+ 18.6°	10 %	+ 20.4°
13-01-2010	18h15m39s	-18° 17 ' 37"	19° 41 ' 09"	-56° 35 ' 19"	14.11 m	32.695 AE	0.10"	+ 19.6°	4 %	+ 10.0°
14-01-2010	18h15m48s	-18° 17 ' 37"	21° 16 ' 21"	-56° 22 ' 37"	14.11 m	32.689 AE	0.10"	+ 20.5°	1 %	+ 8.5°
15-01-2010	18h15m56s	-18° 17 ' 36"	22° 50 ' 36"	-56° 09 ' 00"	14.11 m	32.684 AE	0.10"	+ 21.4°	0 %	+ 17.9°
16-01-2010	18h16m05s	-18° 17 ' 35"	24° 23 ' 51"	-55° 54 ' 27"	14.11 m	32.678 AE	0.10"	+ 22.4°	0 %	+ 29.0°
17-01-2010	18h16m14s	-18° 17 ' 33"	25° 56 ' 03"	-55° 39 ' 00"	14.11 m	32.672 AE	0.10"	+ 23.4°	2 %	+ 40.4°
18-01-2010	18h16m22s	-18° 17 ' 32"	27° 27 ' 12"	-55° 22 ' 41"	14.11 m	32.666 AE	0.10"	+ 24.3°	6 %	+ 51.9°
19-01-2010	18h16m31s	-18° 17 ' 31"	28° 57 ' 14"	-55° 05 ' 31"	14.11 m	32.659 AE	0.10"	+ 25.3°	11 %	+ 63.5°
20-01-2010	18h16m39s	-18° 17 ' 29"	30° 26 ' 08"	-54° 47 ' 30"	14.11 m	32.653 AE	0.10"	+ 26.3°	18 %	+ 75.2°
21-01-2010	18h16m48s	-18° 17 ' 27"	31° 53 ' 53"	-54° 28 ' 41"	14.11 m	32.645 AE	0.10"	+ 27.2°	26 %	+ 87.0°
22-01-2010	18h16m56s	-18° 17 ' 25"	33° 20 ' 27"	-54° 09 ' 05"	14.11 m	32.638 AE	0.10"	+ 28.2°	35 %	+ 99.1°
23-01-2010	18h17m04s	-18° 17 ' 23"	34° 45 ' 51"	-53° 48 ' 43"	14.11 m	32.631 AE	0.10"	+ 29.1°	45 %	+ 111.5°
24-01-2010	18h17m12s	-18° 17 ' 20"	36° 10 ' 02"	-53° 27 ' 36"	14.11 m	32.623 AE	0.10"	+ 30.1°	55 %	+ 124.2°
25-01-2010	18h17m21s	-18° 17 ' 18"	37° 33 ' 02"	-53° 05 ' 45"	14.12 m	32.615 AE	0.10"	+ 31.1°	65 %	+ 137.3°
26-01-2010	18h17m29s	-18° 17 ' 15"	38° 54 ' 50"	-52° 43 ' 13"	14.12 m	32.606 AE	0.10"	+ 32.1°	75 %	+ 150.8°
27-01-2010	18h17m37s	-18° 17 ' 13"	40° 15 ' 26"	-52° 20 ' 00"	14.12 m	32.598 AE	0.10"	+ 33.0°	84 %	+ 164.5°
28-01-2010	18h17m45s	-18° 17 ' 10"	41° 34 ' 50"	-51° 56 ' 08"	14.12 m	32.589 AE	0.10"	+ 34.0°	92 %	+ 173.9°
29-01-2010	18h17m52s	-18° 17 ' 07"	42° 53 ' 03"	-51° 31 ' 38"	14.12 m	32.580 AE	0.10"	+ 35.0°	97 %	+ 163.2°
30-01-2010	18h18m00s	-18° 17 ' 04"	44° 10 ' 05"	-51° 06 ' 32"	14.12 m	32.570 AE	0.10"	+ 36.0°	99 %	+ 148.4°

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Zwergplanet:
 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
31-01-2010	18h18m08s	-18° 17 ' 01"	45° 25 ' 57"	-50° 40 ' 49"	14.12 m	32.561 AE	0.10"	+ 36.9°	99 %	+ 133.1°
01-02-2010	18h18m16s	-18° 16 ' 57"	46° 40 ' 40"	-50° 14 ' 33"	14.12 m	32.551 AE	0.10"	+ 37.9°	95 %	+ 117.9°
02-02-2010	18h18m23s	-18° 16 ' 54"	47° 54 ' 15"	-49° 47 ' 44"	14.12 m	32.541 AE	0.10"	+ 38.9°	89 %	+ 103.0°
03-02-2010	18h18m31s	-18° 16 ' 50"	49° 06 ' 43"	-49° 20 ' 23"	14.12 m	32.531 AE	0.10"	+ 39.9°	81 %	+ 88.5°
04-02-2010	18h18m38s	-18° 16 ' 46"	50° 18 ' 05"	-48° 52 ' 31"	14.12 m	32.520 AE	0.10"	+ 40.8°	71 %	+ 74.5°
05-02-2010	18h18m45s	-18° 16 ' 43"	51° 28 ' 22"	-48° 24 ' 10"	14.12 m	32.510 AE	0.10"	+ 41.8°	60 %	+ 61.1°
06-02-2010	18h18m53s	-18° 16 ' 39"	52° 37 ' 35"	-47° 55 ' 20"	14.12 m	32.499 AE	0.10"	+ 42.8°	50 %	+ 48.1°
07-02-2010	18h19m00s	-18° 16 ' 35"	53° 45 ' 47"	-47° 26 ' 03"	14.12 m	32.487 AE	0.10"	+ 43.8°	40 %	+ 35.7°
08-02-2010	18h19m07s	-18° 16 ' 31"	54° 52 ' 58"	-46° 56 ' 20"	14.12 m	32.476 AE	0.10"	+ 44.7°	30 %	+ 23.8°
09-02-2010	18h19m14s	-18° 16 ' 26"	55° 59 ' 10"	-46° 26 ' 12"	14.12 m	32.465 AE	0.10"	+ 45.7°	22 %	+ 12.8°
10-02-2010	18h19m21s	-18° 16 ' 22"	57° 04 ' 24"	-45° 55 ' 39"	14.12 m	32.453 AE	0.10"	+ 46.7°	14 %	+ 7.1°
11-02-2010	18h19m28s	-18° 16 ' 18"	58° 08 ' 41"	-45° 24 ' 44"	14.12 m	32.441 AE	0.10"	+ 47.7°	8 %	+ 14.7°
12-02-2010	18h19m34s	-18° 16 ' 13"	59° 12 ' 04"	-44° 53 ' 26"	14.12 m	32.429 AE	0.10"	+ 48.6°	4 %	+ 25.6°
13-02-2010	18h19m41s	-18° 16 ' 08"	60° 14 ' 33"	-44° 21 ' 46"	14.12 m	32.416 AE	0.10"	+ 49.6°	1 %	+ 36.9°
14-02-2010	18h19m47s	-18° 16 ' 04"	61° 16 ' 11"	-43° 49 ' 46"	14.12 m	32.404 AE	0.10"	+ 50.6°	0 %	+ 48.4°
15-02-2010	18h19m54s	-18° 15 ' 59"	62° 16 ' 58"	-43° 17 ' 26"	14.12 m	32.391 AE	0.10"	+ 51.6°	0 %	+ 60.0°
16-02-2010	18h20m00s	-18° 15 ' 54"	63° 16 ' 56"	-42° 44 ' 48"	14.12 m	32.378 AE	0.10"	+ 52.5°	3 %	+ 71.7°
17-02-2010	18h20m06s	-18° 15 ' 49"	64° 16 ' 07"	-42° 11 ' 51"	14.12 m	32.365 AE	0.10"	+ 53.5°	7 %	+ 83.5°
18-02-2010	18h20m12s	-18° 15 ' 44"	65° 14 ' 32"	-41° 38 ' 37"	14.12 m	32.352 AE	0.10"	+ 54.5°	13 %	+ 95.5°
19-02-2010	18h20m18s	-18° 15 ' 39"	66° 12 ' 12"	-41° 05 ' 07"	14.12 m	32.338 AE	0.10"	+ 55.5°	20 %	+ 107.6°
20-02-2010	18h20m24s	-18° 15 ' 34"	67° 09 ' 09"	-40° 31 ' 21"	14.12 m	32.324 AE	0.10"	+ 56.5°	29 %	+ 120.0°
21-02-2010	18h20m30s	-18° 15 ' 29"	68° 05 ' 25"	-39° 57 ' 19"	14.12 m	32.311 AE	0.10"	+ 57.5°	38 %	+ 132.7°
22-02-2010	18h20m36s	-18° 15 ' 24"	69° 01 ' 01"	-39° 23 ' 04"	14.12 m	32.297 AE	0.10"	+ 58.4°	49 %	+ 145.7°
23-02-2010	18h20m41s	-18° 15 ' 19"	69° 55 ' 58"	-38° 48 ' 34"	14.12 m	32.283 AE	0.10"	+ 59.4°	60 %	+ 158.9°
24-02-2010	18h20m47s	-18° 15 ' 14"	70° 50 ' 17"	-38° 13 ' 52"	14.12 m	32.268 AE	0.10"	+ 60.4°	70 %	+ 171.4°
25-02-2010	18h20m52s	-18° 15 ' 08"	71° 44 ' 00"	-37° 38 ' 57"	14.12 m	32.254 AE	0.10"	+ 61.4°	80 %	+ 170.0°
26-02-2010	18h20m57s	-18° 15 ' 03"	72° 37 ' 08"	-37° 03 ' 51"	14.12 m	32.240 AE	0.10"	+ 62.4°	89 %	+ 156.3°
27-02-2010	18h21m02s	-18° 14 ' 58"	73° 29 ' 43"	-36° 28 ' 33"	14.12 m	32.225 AE	0.10"	+ 63.3°	95 %	+ 141.4°
28-02-2010	18h21m07s	-18° 14 ' 52"	74° 21 ' 46"	-35° 53 ' 05"	14.12 m	32.210 AE	0.10"	+ 64.3°	99 %	+ 126.2°
01-03-2010	18h21m12s	-18° 14 ' 47"	75° 13 ' 17"	-35° 17 ' 26"	14.12 m	32.195 AE	0.10"	+ 65.3°	99 %	+ 110.9°

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 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
02-03-2010	18h21m17s	-18° 14 ' 41"	76° 04 ' 19"	-34° 41 ' 38"	14.12 m	32.180 AE	0.10"	+ 66.3°	97 %	+ 95.9°
03-03-2010	18h21m22s	-18° 14 ' 36"	76° 54 ' 52"	-34° 05 ' 41"	14.12 m	32.165 AE	0.10"	+ 67.3°	92 %	+ 81.2°
04-03-2010	18h21m26s	-18° 14 ' 30"	77° 44 ' 58"	-33° 29 ' 36"	14.12 m	32.150 AE	0.10"	+ 68.2°	85 %	+ 67.0°
05-03-2010	18h21m30s	-18° 14 ' 25"	78° 34 ' 37"	-32° 53 ' 22"	14.12 m	32.134 AE	0.10"	+ 69.2°	76 %	+ 53.3°
06-03-2010	18h21m35s	-18° 14 ' 20"	79° 23 ' 51"	-32° 17 ' 01"	14.11 m	32.119 AE	0.10"	+ 70.2°	67 %	+ 40.2°
07-03-2010	18h21m39s	-18° 14 ' 14"	80° 12 ' 41"	-31° 40 ' 34"	14.11 m	32.103 AE	0.10"	+ 71.2°	57 %	+ 27.7°
08-03-2010	18h21m43s	-18° 14 ' 09"	81° 01 ' 08"	-31° 03 ' 59"	14.11 m	32.088 AE	0.10"	+ 72.2°	47 %	+ 16.0°
09-03-2010	18h21m47s	-18° 14 ' 03"	81° 49 ' 13"	-30° 27 ' 19"	14.11 m	32.072 AE	0.10"	+ 73.1°	37 %	+ 7.3°
10-03-2010	18h21m51s	-18° 13 ' 58"	82° 36 ' 57"	-29° 50 ' 33"	14.11 m	32.056 AE	0.10"	+ 74.1°	28 %	+ 11.7°
11-03-2010	18h21m54s	-18° 13 ' 52"	83° 24 ' 21"	-29° 13 ' 42"	14.11 m	32.040 AE	0.10"	+ 75.1°	20 %	+ 22.3°
12-03-2010	18h21m58s	-18° 13 ' 47"	84° 11 ' 26"	-28° 36 ' 46"	14.11 m	32.024 AE	0.10"	+ 76.1°	13 %	+ 33.6°
13-03-2010	18h22m01s	-18° 13 ' 41"	84° 58 ' 12"	-27° 59 ' 46"	14.11 m	32.008 AE	0.10"	+ 77.0°	7 %	+ 45.0°
14-03-2010	18h22m04s	-18° 13 ' 36"	85° 44 ' 42"	-27° 22 ' 42"	14.11 m	31.992 AE	0.10"	+ 78.0°	3 %	+ 56.6°
15-03-2010	18h22m08s	-18° 13 ' 30"	86° 30 ' 56"	-26° 45 ' 35"	14.11 m	31.976 AE	0.10"	+ 79.0°	0 %	+ 68.3°
16-03-2010	18h22m11s	-18° 13 ' 25"	87° 16 ' 54"	-26° 08 ' 25"	14.11 m	31.959 AE	0.10"	+ 80.0°	0 %	+ 80.2°
17-03-2010	18h22m13s	-18° 13 ' 20"	88° 02 ' 38"	-25° 31 ' 12"	14.11 m	31.943 AE	0.10"	+ 81.0°	1 %	+ 92.2°
18-03-2010	18h22m16s	-18° 13 ' 14"	88° 48 ' 08"	-24° 53 ' 56"	14.11 m	31.927 AE	0.10"	+ 82.0°	4 %	+ 104.4°
19-03-2010	18h22m19s	-18° 13 ' 09"	89° 33 ' 26"	-24° 16 ' 39"	14.10 m	31.910 AE	0.10"	+ 82.9°	9 %	+ 116.8°
20-03-2010	18h22m21s	-18° 13 ' 04"	90° 18 ' 32"	-23° 39 ' 21"	14.10 m	31.894 AE	0.10"	+ 83.9°	16 %	+ 129.4°
21-03-2010	18h22m24s	-18° 12 ' 59"	91° 03 ' 26"	-23° 02 ' 01"	14.10 m	31.877 AE	0.10"	+ 84.9°	24 %	+ 142.3°
22-03-2010	18h22m26s	-18° 12 ' 54"	91° 48 ' 11"	-22° 24 ' 41"	14.10 m	31.861 AE	0.10"	+ 85.9°	34 %	+ 155.3°
23-03-2010	18h22m28s	-18° 12 ' 49"	92° 32 ' 45"	-21° 47 ' 20"	14.10 m	31.844 AE	0.10"	+ 86.9°	44 %	+ 168.0°
24-03-2010	18h22m30s	-18° 12 ' 44"	93° 17 ' 12"	-21° 10 ' 00"	14.10 m	31.828 AE	0.10"	+ 87.8°	55 %	+ 173.6°
25-03-2010	18h22m32s	-18° 12 ' 39"	94° 01 ' 30"	-20° 32 ' 40"	14.10 m	31.811 AE	0.10"	+ 88.8°	66 %	+ 161.7°
26-03-2010	18h22m33s	-18° 12 ' 34"	94° 45 ' 40"	-19° 55 ' 20"	14.10 m	31.795 AE	0.10"	+ 89.8°	77 %	+ 147.6°
27-03-2010	18h22m35s	-18° 12 ' 29"	95° 29 ' 45"	-19° 18 ' 02"	14.10 m	31.778 AE	0.10"	+ 90.8°	86 %	+ 133.0°
28-03-2010	18h22m36s	-18° 12 ' 24"	96° 13 ' 43"	-18° 40 ' 45"	14.10 m	31.761 AE	0.10"	+ 91.8°	93 %	+ 118.1°
29-03-2010	18h22m37s	-18° 12 ' 20"	85° 24 ' 55"	-27° 36 ' 46"	14.09 m	31.746 AE	0.10"	+ 92.7°	97 %	+ 103.7°
30-03-2010	18h22m38s	-18° 12 ' 15"	86° 11 ' 40"	-26° 59 ' 21"	14.09 m	31.729 AE	0.10"	+ 93.7°	99 %	+ 88.8°
31-03-2010	18h22m39s	-18° 12 ' 11"	86° 58 ' 10"	-26° 21 ' 53"	14.09 m	31.713 AE	0.10"	+ 94.7°	98 %	+ 74.2°

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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	18h22m40s	-18° 12 ' 06"	87° 44 ' 24"	-25° 44 ' 22"	14.09 m	31.696 AE	0.10"	+ 95.7°	95 %	+ 60.0°
02-04-2010	18h22m41s	-18° 12 ' 02"	88° 30 ' 24"	-25° 06 ' 49"	14.09 m	31.680 AE	0.10"	+ 96.6°	89 %	+ 46.3°
03-04-2010	18h22m42s	-18° 11 ' 58"	89° 16 ' 11"	-24° 29 ' 14"	14.09 m	31.663 AE	0.10"	+ 97.6°	82 %	+ 33.1°
04-04-2010	18h22m42s	-18° 11 ' 54"	90° 01 ' 46"	-23° 51 ' 37"	14.09 m	31.647 AE	0.10"	+ 98.6°	73 %	+ 20.7°
05-04-2010	18h22m43s	-18° 11 ' 50"	90° 47 ' 09"	-23° 13 ' 59"	14.09 m	31.631 AE	0.10"	+ 99.6°	64 %	+ 9.7°
06-04-2010	18h22m43s	-18° 11 ' 46"	91° 32 ' 21"	-22° 36 ' 20"	14.09 m	31.614 AE	0.10"	+ 100.5°	54 %	+ 8.5°
07-04-2010	18h22m43s	-18° 11 ' 42"	92° 17 ' 23"	-21° 58 ' 41"	14.08 m	31.598 AE	0.10"	+ 101.5°	45 %	+ 18.4°
08-04-2010	18h22m43s	-18° 11 ' 38"	93° 02 ' 16"	-21° 21 ' 02"	14.08 m	31.582 AE	0.10"	+ 102.5°	35 %	+ 29.6°
09-04-2010	18h22m43s	-18° 11 ' 34"	93° 47 ' 01"	-20° 43 ' 23"	14.08 m	31.566 AE	0.10"	+ 103.5°	27 %	+ 41.1°
10-04-2010	18h22m42s	-18° 11 ' 31"	94° 31 ' 38"	-20° 05 ' 45"	14.08 m	31.550 AE	0.10"	+ 104.5°	19 %	+ 52.6°
11-04-2010	18h22m42s	-18° 11 ' 27"	95° 16 ' 08"	-19° 28 ' 09"	14.08 m	31.534 AE	0.10"	+ 105.4°	12 %	+ 64.3°
12-04-2010	18h22m41s	-18° 11 ' 24"	96° 00 ' 32"	-18° 50 ' 33"	14.08 m	31.518 AE	0.10"	+ 106.4°	6 %	+ 76.2°
13-04-2010	18h22m41s	-18° 11 ' 21"	96° 44 ' 51"	-18° 13 ' 00"	14.08 m	31.502 AE	0.10"	+ 107.4°	2 %	+ 88.2°
14-04-2010	18h22m40s	-18° 11 ' 18"	97° 29 ' 05"	-17° 35 ' 29"	14.07 m	31.486 AE	0.10"	+ 108.4°	0 %	+ 100.5°
15-04-2010	18h22m39s	-18° 11 ' 15"	98° 13 ' 15"	-16° 58 ' 00"	14.07 m	31.471 AE	0.10"	+ 109.3°	0 %	+ 113.0°
16-04-2010	18h22m38s	-18° 11 ' 12"	98° 57 ' 21"	-16° 20 ' 35"	14.07 m	31.455 AE	0.10"	+ 110.3°	2 %	+ 125.7°
17-04-2010	18h22m36s	-18° 11 ' 09"	99° 41 ' 25"	-15° 43 ' 13"	14.07 m	31.440 AE	0.10"	+ 111.3°	6 %	+ 138.7°
18-04-2010	18h22m35s	-18° 11 ' 07"	100° 25 ' 26"	-15° 05 ' 54"	14.07 m	31.424 AE	0.11"	+ 112.3°	12 %	+ 151.8°
19-04-2010	18h22m34s	-18° 11 ' 04"	101° 09 ' 26"	-14° 28 ' 40"	14.07 m	31.409 AE	0.11"	+ 113.3°	20 %	+ 164.8°
20-04-2010	18h22m32s	-18° 11 ' 02"	101° 53 ' 26"	-13° 51 ' 31"	14.07 m	31.394 AE	0.11"	+ 114.3°	29 %	+ 174.8°
21-04-2010	18h22m30s	-18° 11 ' 00"	102° 37 ' 25"	-13° 14 ' 26"	14.06 m	31.379 AE	0.11"	+ 115.2°	40 %	+ 165.6°
22-04-2010	18h22m28s	-18° 10 ' 58"	103° 21 ' 25"	-12° 37 ' 27"	14.06 m	31.364 AE	0.11"	+ 116.2°	51 %	+ 152.0°
23-04-2010	18h22m26s	-18° 10 ' 56"	104° 05 ' 25"	-12° 00 ' 33"	14.06 m	31.350 AE	0.11"	+ 117.2°	63 %	+ 137.9°
24-04-2010	18h22m24s	-18° 10 ' 54"	104° 49 ' 28"	-11° 23 ' 46"	14.06 m	31.335 AE	0.11"	+ 118.2°	73 %	+ 123.5°
25-04-2010	18h22m22s	-18° 10 ' 53"	105° 33 ' 32"	-10° 47 ' 05"	14.06 m	31.321 AE	0.11"	+ 119.2°	83 %	+ 109.1°
26-04-2010	18h22m20s	-18° 10 ' 51"	106° 17 ' 39"	-10° 10 ' 31"	14.06 m	31.306 AE	0.11"	+ 120.1°	91 %	+ 94.5°
27-04-2010	18h22m17s	-18° 10 ' 50"	107° 01 ' 50"	-9° 34 ' 04"	14.05 m	31.292 AE	0.11"	+ 121.1°	96 %	+ 80.2°
28-04-2010	18h22m15s	-18° 10 ' 49"	107° 46 ' 05"	-8° 57 ' 44"	14.05 m	31.278 AE	0.11"	+ 122.1°	99 %	+ 65.9°
29-04-2010	18h22m12s	-18° 10 ' 48"	108° 30 ' 24"	-8° 21 ' 33"	14.05 m	31.264 AE	0.11"	+ 123.1°	99 %	+ 52.0°
30-04-2010	18h22m09s	-18° 10 ' 47"	109° 14 ' 48"	-7° 45 ' 30"	14.05 m	31.251 AE	0.11"	+ 124.0°	97 %	+ 38.5°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 5°15'43"N
 Län.: 86°54'27"W

Objekt

Zwergplanet:
 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
01-05-2010	18h22m06s	-18° 10 ' 46"	109° 59 ' 18"	-7° 09 ' 36"	14.05 m	31.237 AE	0.11 "	+ 125.0°	93 %	+ 25.4°
02-05-2010	18h22m03s	-18° 10 ' 46"	110° 43 ' 54"	-6° 33 ' 52"	14.05 m	31.224 AE	0.11 "	+ 126.0°	87 %	+ 13.4°
03-05-2010	18h22m00s	-18° 10 ' 45"	111° 28 ' 36"	-5° 58 ' 16"	14.04 m	31.210 AE	0.11 "	+ 127.0°	79 %	+ 6.7°
04-05-2010	18h21m57s	-18° 10 ' 45"	112° 13 ' 26"	-5° 22 ' 51"	14.04 m	31.197 AE	0.11 "	+ 127.9°	71 %	+ 14.8°
05-05-2010	18h21m53s	-18° 10 ' 45"	112° 58 ' 24"	-4° 47 ' 37"	14.04 m	31.185 AE	0.11 "	+ 128.9°	62 %	+ 26.1°
06-05-2010	18h21m50s	-18° 10 ' 45"	113° 43 ' 29"	-4° 12 ' 33"	14.04 m	31.172 AE	0.11 "	+ 129.9°	52 %	+ 37.7°
07-05-2010	18h21m46s	-18° 10 ' 45"	114° 28 ' 44"	-3° 37 ' 41"	14.04 m	31.160 AE	0.11 "	+ 130.9°	43 %	+ 49.3°
08-05-2010	18h21m43s	-18° 10 ' 46"	115° 14 ' 07"	-3° 03 ' 00"	14.04 m	31.147 AE	0.11 "	+ 131.8°	33 %	+ 61.0°
09-05-2010	18h21m39s	-18° 10 ' 46"	115° 59 ' 40"	-2° 28 ' 32"	14.04 m	31.135 AE	0.11 "	+ 132.8°	25 %	+ 72.8°
10-05-2010	18h21m35s	-18° 10 ' 47"	116° 45 ' 24"	-1° 54 ' 16"	14.03 m	31.123 AE	0.11 "	+ 133.8°	17 %	+ 84.7°
11-05-2010	18h21m31s	-18° 10 ' 48"	117° 31 ' 18"	-1° 20 ' 13"	14.03 m	31.112 AE	0.11 "	+ 134.8°	10 %	+ 96.9°
12-05-2010	18h21m27s	-18° 10 ' 49"	118° 17 ' 23"	-0° 46 ' 24"	14.03 m	31.100 AE	0.11 "	+ 135.7°	5 %	+ 109.4°
13-05-2010	18h21m23s	-18° 10 ' 50"	119° 03 ' 39"	-0° 12 ' 48"	14.03 m	31.089 AE	0.11 "	+ 136.7°	1 %	+ 122.1°
14-05-2010	18h21m18s	-18° 10 ' 52"	119° 50 ' 08"	+0° 20 ' 32"	14.03 m	31.078 AE	0.11 "	+ 137.7°	0 %	+ 135.2°
15-05-2010	18h21m14s	-18° 10 ' 53"	120° 36 ' 49"	+0° 53 ' 38"	14.03 m	31.067 AE	0.11 "	+ 138.7°	0 %	+ 148.5°
16-05-2010	18h21m10s	-18° 10 ' 55"	121° 23 ' 43"	+1° 26 ' 28"	14.02 m	31.056 AE	0.11 "	+ 139.6°	4 %	+ 161.9°
17-05-2010	18h21m05s	-18° 10 ' 57"	122° 10 ' 50"	+1° 59 ' 03"	14.02 m	31.046 AE	0.11 "	+ 140.6°	9 %	+ 173.9°
18-05-2010	18h21m00s	-18° 10 ' 59"	122° 58 ' 11"	+2° 31 ' 22"	14.02 m	31.036 AE	0.11 "	+ 141.6°	17 %	+ 168.4°
19-05-2010	18h20m56s	-18° 11 ' 02"	123° 45 ' 45"	+3° 03 ' 24"	14.02 m	31.026 AE	0.11 "	+ 142.6°	27 %	+ 154.8°
20-05-2010	18h20m51s	-18° 11 ' 04"	124° 33 ' 34"	+3° 35 ' 08"	14.02 m	31.016 AE	0.11 "	+ 143.5°	37 %	+ 140.8°
21-05-2010	18h20m46s	-18° 11 ' 07"	125° 21 ' 38"	+4° 06 ' 35"	14.02 m	31.007 AE	0.11 "	+ 144.5°	49 %	+ 126.6°
22-05-2010	18h20m41s	-18° 11 ' 09"	126° 09 ' 57"	+4° 37 ' 44"	14.01 m	30.998 AE	0.11 "	+ 145.5°	60 %	+ 112.4°
23-05-2010	18h20m36s	-18° 11 ' 12"	126° 58 ' 32"	+5° 08 ' 34"	14.01 m	30.989 AE	0.11 "	+ 146.4°	71 %	+ 98.3°
24-05-2010	18h20m31s	-18° 11 ' 16"	127° 47 ' 22"	+5° 39 ' 04"	14.01 m	30.980 AE	0.11 "	+ 147.4°	81 %	+ 84.2°
25-05-2010	18h20m26s	-18° 11 ' 19"	128° 36 ' 29"	+6° 09 ' 15"	14.01 m	30.972 AE	0.11 "	+ 148.4°	89 %	+ 70.3°
26-05-2010	18h20m20s	-18° 11 ' 23"	129° 25 ' 52"	+6° 39 ' 06"	14.01 m	30.963 AE	0.11 "	+ 149.3°	94 %	+ 56.5°
27-05-2010	18h20m15s	-18° 11 ' 26"	130° 15 ' 32"	+7° 08 ' 36"	14.01 m	30.955 AE	0.11 "	+ 150.3°	98 %	+ 43.0°
28-05-2010	18h20m10s	-18° 11 ' 30"	131° 05 ' 28"	+7° 37 ' 44"	14.00 m	30.948 AE	0.11 "	+ 151.3°	99 %	+ 29.9°
29-05-2010	18h20m04s	-18° 11 ' 34"	131° 55 ' 42"	+8° 06 ' 31"	14.00 m	30.940 AE	0.11 "	+ 152.2°	98 %	+ 17.4°
30-05-2010	18h19m59s	-18° 11 ' 38"	132° 46 ' 14"	+8° 34 ' 56"	14.00 m	30.933 AE	0.11 "	+ 153.2°	95 %	+ 7.4°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 5°15'43"N
 Län.: 86°54'27"W

Objekt

Zwergplanet:
 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
31-05-2010	18h19m53s	-18° 11 ' 43"	133° 37 ' 03"	+9° 02 ' 57"	14.00 m	30.926 AE	0.11 "	+ 154.2°	91 %	+ 11.4°
01-06-2010	18h19m47s	-18° 11 ' 47"	134° 28 ' 11"	+9° 30 ' 35"	14.00 m	30.919 AE	0.11 "	+ 155.1°	84 %	+ 22.6°
02-06-2010	18h19m42s	-18° 11 ' 52"	135° 19 ' 37"	+9° 57 ' 50"	14.00 m	30.913 AE	0.11 "	+ 156.1°	77 %	+ 34.3°
03-06-2010	18h19m36s	-18° 11 ' 57"	136° 11 ' 21"	+10° 24 ' 39"	13.99 m	30.907 AE	0.11 "	+ 157.0°	68 %	+ 46.0°
04-06-2010	18h19m30s	-18° 12 ' 02"	137° 03 ' 23"	+10° 51 ' 04"	13.99 m	30.901 AE	0.11 "	+ 158.0°	59 %	+ 57.7°
05-06-2010	18h19m24s	-18° 12 ' 07"	137° 55 ' 45"	+11° 17 ' 03"	13.99 m	30.895 AE	0.11 "	+ 158.9°	50 %	+ 69.4°
06-06-2010	18h19m18s	-18° 12 ' 13"	138° 48 ' 25"	+11° 42 ' 36"	13.99 m	30.890 AE	0.11 "	+ 159.9°	40 %	+ 81.3°
07-06-2010	18h19m12s	-18° 12 ' 19"	139° 41 ' 24"	+12° 07 ' 43"	13.99 m	30.885 AE	0.11 "	+ 160.8°	31 %	+ 93.3°
08-06-2010	18h19m06s	-18° 12 ' 24"	140° 34 ' 42"	+12° 32 ' 22"	13.99 m	30.880 AE	0.11 "	+ 161.8°	22 %	+ 105.6°
09-06-2010	18h19m00s	-18° 12 ' 30"	141° 28 ' 19"	+12° 56 ' 33"	13.99 m	30.876 AE	0.11 "	+ 162.7°	14 %	+ 118.2°
10-06-2010	18h18m54s	-18° 12 ' 37"	142° 22 ' 15"	+13° 20 ' 17"	13.98 m	30.871 AE	0.11 "	+ 163.6°	7 %	+ 131.1°
11-06-2010	18h18m48s	-18° 12 ' 43"	143° 16 ' 30"	+13° 43 ' 31"	13.98 m	30.867 AE	0.11 "	+ 164.6°	3 %	+ 144.4°
12-06-2010	18h18m42s	-18° 12 ' 49"	144° 11 ' 04"	+14° 06 ' 16"	13.98 m	30.864 AE	0.11 "	+ 165.5°	0 %	+ 157.9°
13-06-2010	18h18m35s	-18° 12 ' 56"	145° 05 ' 57"	+14° 28 ' 31"	13.98 m	30.860 AE	0.11 "	+ 166.4°	0 %	+ 171.1°
14-06-2010	18h18m29s	-18° 13 ' 03"	146° 01 ' 09"	+14° 50 ' 16"	13.98 m	30.857 AE	0.11 "	+ 167.3°	2 %	+ 171.6°
15-06-2010	18h18m23s	-18° 13 ' 10"	146° 56 ' 40"	+15° 11 ' 29"	13.98 m	30.854 AE	0.11 "	+ 168.2°	7 %	+ 158.2°
16-06-2010	18h18m17s	-18° 13 ' 17"	147° 52 ' 29"	+15° 32 ' 11"	13.98 m	30.852 AE	0.11 "	+ 169.1°	15 %	+ 143.8°
17-06-2010	18h18m10s	-18° 13 ' 25"	148° 48 ' 37"	+15° 52 ' 21"	13.97 m	30.850 AE	0.11 "	+ 169.9°	24 %	+ 129.5°
18-06-2010	18h18m04s	-18° 13 ' 32"	149° 45 ' 03"	+16° 11 ' 59"	13.97 m	30.848 AE	0.11 "	+ 170.8°	35 %	+ 115.2°
19-06-2010	18h17m58s	-18° 13 ' 40"	150° 41 ' 47"	+16° 31 ' 03"	13.97 m	30.846 AE	0.11 "	+ 171.5°	47 %	+ 101.0°
20-06-2010	18h17m51s	-18° 13 ' 48"	151° 38 ' 49"	+16° 49 ' 34"	13.97 m	30.845 AE	0.11 "	+ 172.3°	58 %	+ 87.0°
21-06-2010	18h17m45s	-18° 13 ' 56"	152° 36 ' 09"	+17° 07 ' 31"	13.97 m	30.844 AE	0.11 "	+ 173.0°	69 %	+ 73.2°
22-06-2010	18h17m38s	-18° 14 ' 04"	153° 33 ' 46"	+17° 24 ' 53"	13.97 m	30.843 AE	0.11 "	+ 173.6°	78 %	+ 59.6°
23-06-2010	18h17m32s	-18° 14 ' 12"	154° 31 ' 39"	+17° 41 ' 40"	13.97 m	30.842 AE	0.11 "	+ 174.2°	86 %	+ 46.3°
24-06-2010	18h17m25s	-18° 14 ' 21"	155° 29 ' 49"	+17° 57 ' 52"	13.97 m	30.842 AE	0.11 "	+ 174.6°	93 %	+ 33.3°
25-06-2010	18h17m19s	-18° 14 ' 30"	156° 28 ' 16"	+18° 13 ' 28"	13.97 m	30.842 AE	0.11 "	+ 174.8°	97 %	+ 20.7°
26-06-2010	18h17m13s	-18° 14 ' 38"	157° 26 ' 57"	+18° 28 ' 27"	13.97 m	30.843 AE	0.11 "	+ 174.9°	99 %	+ 9.6°
27-06-2010	18h17m06s	-18° 14 ' 47"	158° 25 ' 55"	+18° 42 ' 50"	13.97 m	30.843 AE	0.11 "	+ 174.8°	99 %	+ 8.8°
28-06-2010	18h17m00s	-18° 14 ' 57"	159° 25 ' 06"	+18° 56 ' 35"	13.97 m	30.844 AE	0.11 "	+ 174.4°	97 %	+ 19.3°
29-06-2010	18h16m53s	-18° 15 ' 06"	160° 24 ' 32"	+19° 09 ' 42"	13.97 m	30.846 AE	0.11 "	+ 174.0°	94 %	+ 31.0°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 5°15'43"N
 Län.: 86°54'27"W

Objekt

Zwergplanet:
 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
30-06-2010	18h16m47s	-18° 15 ' 15"	161° 24 ' 12"	+19° 22 ' 12"	13.97 m	30.847 AE	0.11"	+ 173.5°	89 %	+ 42.8°
01-07-2010	18h16m41s	-18° 15 ' 25"	162° 24 ' 04"	+19° 34 ' 03"	13.97 m	30.849 AE	0.11"	+ 172.8°	82 %	+ 54.6°
02-07-2010	18h16m34s	-18° 15 ' 35"	163° 24 ' 09"	+19° 45 ' 15"	13.97 m	30.851 AE	0.11"	+ 172.1°	74 %	+ 66.4°
03-07-2010	18h16m28s	-18° 15 ' 45"	164° 24 ' 26"	+19° 55 ' 48"	13.97 m	30.853 AE	0.11"	+ 171.3°	66 %	+ 78.2°
04-07-2010	18h16m21s	-18° 15 ' 55"	165° 24 ' 54"	+20° 05 ' 42"	13.98 m	30.856 AE	0.11"	+ 170.5°	56 %	+ 90.1°
05-07-2010	18h16m15s	-18° 16 ' 05"	166° 25 ' 33"	+20° 14 ' 56"	13.98 m	30.859 AE	0.11"	+ 169.7°	47 %	+ 102.2°
06-07-2010	18h16m09s	-18° 16 ' 15"	167° 26 ' 21"	+20° 23 ' 30"	13.98 m	30.862 AE	0.11"	+ 168.8°	37 %	+ 114.5°
07-07-2010	18h16m02s	-18° 16 ' 26"	168° 27 ' 18"	+20° 31 ' 24"	13.98 m	30.866 AE	0.11"	+ 168.0°	27 %	+ 127.1°
08-07-2010	18h15m56s	-18° 16 ' 37"	169° 28 ' 24"	+20° 38 ' 37"	13.98 m	30.870 AE	0.11"	+ 167.1°	18 %	+ 140.0°
09-07-2010	18h15m50s	-18° 16 ' 47"	170° 29 ' 37"	+20° 45 ' 10"	13.98 m	30.874 AE	0.11"	+ 166.2°	11 %	+ 153.3°
10-07-2010	18h15m44s	-18° 16 ' 58"	171° 30 ' 57"	+20° 51 ' 01"	13.98 m	30.878 AE	0.11"	+ 165.3°	4 %	+ 166.8°
11-07-2010	18h15m38s	-18° 17 ' 10"	172° 32 ' 22"	+20° 56 ' 11"	13.99 m	30.883 AE	0.11"	+ 164.3°	1 %	+ 174.7°
12-07-2010	18h15m31s	-18° 17 ' 21"	173° 33 ' 53"	+21° 00 ' 40"	13.99 m	30.888 AE	0.11"	+ 163.4°	0 %	+ 162.7°
13-07-2010	18h15m25s	-18° 17 ' 32"	174° 35 ' 28"	+21° 04 ' 28"	13.99 m	30.893 AE	0.11"	+ 162.5°	1 %	+ 148.2°
14-07-2010	18h15m19s	-18° 17 ' 44"	175° 37 ' 06"	+21° 07 ' 34"	13.99 m	30.899 AE	0.11"	+ 161.6°	6 %	+ 133.5°
15-07-2010	18h15m13s	-18° 17 ' 55"	176° 38 ' 47"	+21° 09 ' 59"	13.99 m	30.905 AE	0.11"	+ 160.6°	13 %	+ 118.7°
16-07-2010	18h15m07s	-18° 18 ' 07"	177° 40 ' 30"	+21° 11 ' 42"	13.99 m	30.911 AE	0.11"	+ 159.7°	22 %	+ 104.2°
17-07-2010	18h15m01s	-18° 18 ' 19"	178° 42 ' 13"	+21° 12 ' 43"	13.99 m	30.917 AE	0.11"	+ 158.7°	33 %	+ 89.9°
18-07-2010	18h14m55s	-18° 18 ' 31"	179° 43 ' 57"	+21° 13 ' 03"	14.00 m	30.924 AE	0.11"	+ 157.8°	44 %	+ 75.9°
19-07-2010	18h14m50s	-18° 18 ' 43"	180° 45 ' 39"	+21° 12 ' 41"	14.00 m	30.931 AE	0.11"	+ 156.8°	55 %	+ 62.2°
20-07-2010	18h14m44s	-18° 18 ' 55"	181° 47 ' 20"	+21° 11 ' 37"	14.00 m	30.938 AE	0.11"	+ 155.9°	66 %	+ 48.9°
21-07-2010	18h14m38s	-18° 19 ' 08"	182° 48 ' 58"	+21° 09 ' 52"	14.00 m	30.945 AE	0.11"	+ 154.9°	75 %	+ 35.9°
22-07-2010	18h14m32s	-18° 19 ' 20"	183° 50 ' 33"	+21° 07 ' 25"	14.00 m	30.953 AE	0.11"	+ 153.9°	84 %	+ 23.4°
23-07-2010	18h14m27s	-18° 19 ' 33"	184° 52 ' 03"	+21° 04 ' 17"	14.00 m	30.961 AE	0.11"	+ 153.0°	90 %	+ 11.8°
24-07-2010	18h14m21s	-18° 19 ' 45"	185° 53 ' 28"	+21° 00 ' 27"	14.01 m	30.969 AE	0.11"	+ 152.0°	95 %	+ 7.3°
25-07-2010	18h14m16s	-18° 19 ' 58"	186° 54 ' 48"	+20° 55 ' 57"	14.01 m	30.978 AE	0.11"	+ 151.1°	98 %	+ 16.5°
26-07-2010	18h14m10s	-18° 20 ' 11"	187° 56 ' 00"	+20° 50 ' 46"	14.01 m	30.986 AE	0.11"	+ 150.1°	99 %	+ 28.1°
27-07-2010	18h14m05s	-18° 20 ' 24"	188° 57 ' 05"	+20° 44 ' 54"	14.01 m	30.995 AE	0.11"	+ 149.2°	99 %	+ 39.9°
28-07-2010	18h14m00s	-18° 20 ' 37"	189° 58 ' 02"	+20° 38 ' 21"	14.01 m	31.005 AE	0.11"	+ 148.2°	96 %	+ 51.8°
29-07-2010	18h13m55s	-18° 20 ' 51"	190° 58 ' 49"	+20° 31 ' 08"	14.02 m	31.014 AE	0.11"	+ 147.2°	92 %	+ 63.6°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 5°15'43"N
 Län.: 86°54'27"W

Objekt

Zwergplanet:
 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
30-07-2010	18h13m50s	-18°21'04"	191°59'26"	+20°23'16"	14.02 m	31.024 AE	0.11"	+146.3°	87 %	+75.4°
31-07-2010	18h13m44s	-18°21'18"	192°59'53"	+20°14'43"	14.02 m	31.034 AE	0.11"	+145.3°	80 %	+87.3°
01-08-2010	18h13m40s	-18°21'31"	194°00'09"	+20°05'32"	14.02 m	31.044 AE	0.11"	+144.3°	71 %	+99.2°
02-08-2010	18h13m35s	-18°21'45"	195°00'13"	+19°55'41"	14.02 m	31.054 AE	0.11"	+143.4°	62 %	+111.3°
03-08-2010	18h13m30s	-18°21'58"	196°00'04"	+19°45'12"	14.02 m	31.065 AE	0.11"	+142.4°	53 %	+123.6°
04-08-2010	18h13m25s	-18°22'12"	196°59'42"	+19°34'04"	14.03 m	31.076 AE	0.11"	+141.4°	42 %	+136.2°
05-08-2010	18h13m20s	-18°22'26"	197°59'06"	+19°22'18"	14.03 m	31.087 AE	0.11"	+140.5°	32 %	+149.1°
06-08-2010	18h13m16s	-18°22'40"	198°58'15"	+19°09'55"	14.03 m	31.098 AE	0.11"	+139.5°	22 %	+162.2°
07-08-2010	18h13m11s	-18°22'54"	199°57'10"	+18°56'55"	14.03 m	31.110 AE	0.11"	+138.6°	14 %	+174.2°
08-08-2010	18h13m07s	-18°23'08"	200°55'49"	+18°43'18"	14.03 m	31.122 AE	0.11"	+137.6°	7 %	+167.9°
09-08-2010	18h13m03s	-18°23'23"	201°54'12"	+18°29'05"	14.03 m	31.134 AE	0.11"	+136.6°	2 %	+153.8°
10-08-2010	18h12m59s	-18°23'37"	202°52'19"	+18°14'15"	14.04 m	31.146 AE	0.11"	+135.7°	0 %	+139.0°
11-08-2010	18h12m55s	-18°23'51"	203°50'09"	+17°58'51"	14.04 m	31.159 AE	0.11"	+134.7°	1 %	+124.0°
12-08-2010	18h12m51s	-18°24'06"	204°47'41"	+17°42'51"	14.04 m	31.171 AE	0.11"	+133.7°	5 %	+109.0°
13-08-2010	18h12m47s	-18°24'20"	205°44'56"	+17°26'18"	14.04 m	31.184 AE	0.11"	+132.7°	11 %	+94.2°
14-08-2010	18h12m43s	-18°24'35"	206°41'53"	+17°09'10"	14.04 m	31.197 AE	0.11"	+131.8°	20 %	+79.7°
15-08-2010	18h12m39s	-18°24'50"	207°38'32"	+16°51'29"	14.05 m	31.210 AE	0.11"	+130.8°	30 %	+65.5°
16-08-2010	18h12m36s	-18°25'04"	208°34'52"	+16°33'14"	14.05 m	31.224 AE	0.11"	+129.8°	41 %	+51.9°
17-08-2010	18h12m32s	-18°25'19"	209°30'54"	+16°14'28"	14.05 m	31.237 AE	0.11"	+128.9°	51 %	+38.6°
18-08-2010	18h12m29s	-18°25'34"	210°26'37"	+15°55'09"	14.05 m	31.251 AE	0.11"	+127.9°	62 %	+25.9°
19-08-2010	18h12m26s	-18°25'49"	211°22'00"	+15°35'20"	14.05 m	31.265 AE	0.11"	+126.9°	71 %	+14.0°
20-08-2010	18h12m22s	-18°26'04"	212°17'04"	+15°14'59"	14.05 m	31.279 AE	0.11"	+126.0°	80 %	+6.5°
21-08-2010	18h12m19s	-18°26'19"	213°11'49"	+14°54'08"	14.06 m	31.294 AE	0.11"	+125.0°	87 %	+14.0°
22-08-2010	18h12m16s	-18°26'34"	214°06'14"	+14°32'47"	14.06 m	31.308 AE	0.11"	+124.0°	93 %	+25.3°
23-08-2010	18h12m14s	-18°26'49"	215°00'19"	+14°10'57"	14.06 m	31.323 AE	0.11"	+123.1°	97 %	+37.1°
24-08-2010	18h12m11s	-18°27'04"	215°54'05"	+13°48'38"	14.06 m	31.338 AE	0.11"	+122.1°	99 %	+48.9°
25-08-2010	18h12m08s	-18°27'19"	216°47'31"	+13°25'52"	14.06 m	31.353 AE	0.11"	+121.1°	99 %	+60.8°
26-08-2010	18h12m06s	-18°27'34"	217°40'38"	+13°02'37"	14.06 m	31.368 AE	0.11"	+120.2°	98 %	+72.6°
27-08-2010	18h12m04s	-18°27'50"	218°33'25"	+12°38'55"	14.07 m	31.383 AE	0.11"	+119.2°	95 %	+84.5°
28-08-2010	18h12m01s	-18°28'05"	219°25'52"	+12°14'47"	14.07 m	31.398 AE	0.11"	+118.2°	90 %	+96.4°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 5°15'43"N
 Län.: 86°54'27"W

Objekt

Zwergplanet:
 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
29-08-2010	18h11m59s	-18°28'20"	220°18'00"	+11°50'13"	14.07 m	31.414 AE	0.11"	+117.3°	84 %	+108.5°
30-08-2010	18h11m57s	-18°28'35"	221°09'48"	+11°25'13"	14.07 m	31.430 AE	0.11"	+116.3°	77 %	+120.7°
31-08-2010	18h11m55s	-18°28'51"	222°01'17"	+10°59'49"	14.07 m	31.445 AE	0.10"	+115.3°	68 %	+133.0°
01-09-2010	18h11m54s	-18°29'06"	222°52'26"	+10°34'00"	14.07 m	31.461 AE	0.10"	+114.3°	58 %	+145.6°
02-09-2010	18h11m52s	-18°29'21"	223°43'17"	+10°07'47"	14.08 m	31.477 AE	0.10"	+113.4°	48 %	+158.3°
03-09-2010	18h11m51s	-18°29'37"	224°33'49"	+9°41'10"	14.08 m	31.494 AE	0.10"	+112.4°	37 %	+170.9°
04-09-2010	18h11m49s	-18°29'52"	225°24'02"	+9°14'11"	14.08 m	31.510 AE	0.10"	+111.4°	27 %	+172.4°
05-09-2010	18h11m48s	-18°30'07"	226°13'57"	+8°46'50"	14.08 m	31.526 AE	0.10"	+110.5°	17 %	+159.3°
06-09-2010	18h11m47s	-18°30'23"	227°03'34"	+8°19'07"	14.08 m	31.543 AE	0.10"	+109.5°	9 %	+145.0°
07-09-2010	18h11m46s	-18°30'38"	227°52'52"	+7°51'02"	14.08 m	31.559 AE	0.10"	+108.5°	3 %	+130.2°
08-09-2010	18h11m45s	-18°30'53"	228°41'53"	+7°22'37"	14.09 m	31.576 AE	0.10"	+107.6°	0 %	+115.2°
09-09-2010	18h11m44s	-18°31'09"	229°30'36"	+6°53'51"	14.09 m	31.593 AE	0.10"	+106.6°	0 %	+100.1°
10-09-2010	18h11m44s	-18°31'24"	230°19'02"	+6°24'46"	14.09 m	31.610 AE	0.10"	+105.6°	3 %	+85.2°
11-09-2010	18h11m43s	-18°31'40"	231°07'12"	+5°55'21"	14.09 m	31.627 AE	0.10"	+104.6°	9 %	+70.6°
12-09-2010	18h11m43s	-18°31'55"	231°55'04"	+5°25'38"	14.09 m	31.644 AE	0.10"	+103.7°	17 %	+56.4°
13-09-2010	18h11m43s	-18°32'10"	232°42'41"	+4°55'36"	14.09 m	31.661 AE	0.10"	+102.7°	26 %	+42.6°
14-09-2010	18h11m42s	-18°32'26"	233°30'01"	+4°25'16"	14.10 m	31.678 AE	0.10"	+101.7°	36 %	+29.4°
15-09-2010	18h11m42s	-18°32'41"	234°17'06"	+3°54'39"	14.10 m	31.695 AE	0.10"	+100.8°	46 %	+16.9°
16-09-2010	18h11m43s	-18°32'56"	235°03'56"	+3°23'45"	14.10 m	31.712 AE	0.10"	+99.8°	56 %	+6.8°
17-09-2010	18h11m43s	-18°33'11"	235°50'31"	+2°52'35"	14.10 m	31.730 AE	0.10"	+98.8°	66 %	+11.1°
18-09-2010	18h11m43s	-18°33'26"	236°36'52"	+2°21'09"	14.10 m	31.747 AE	0.10"	+97.8°	75 %	+22.3°
19-09-2010	18h11m44s	-18°33'42"	237°22'58"	+1°49'27"	14.10 m	31.764 AE	0.10"	+96.9°	83 %	+34.0°
20-09-2010	18h11m45s	-18°33'57"	238°08'51"	+1°17'30"	14.10 m	31.782 AE	0.10"	+95.9°	89 %	+45.8°
21-09-2010	18h11m46s	-18°34'12"	238°54'31"	+0°45'18"	14.10 m	31.799 AE	0.10"	+94.9°	94 %	+57.6°
22-09-2010	18h11m46s	-18°34'27"	239°39'58"	+0°12'53"	14.11 m	31.817 AE	0.10"	+94.0°	97 %	+69.5°
23-09-2010	18h11m48s	-18°34'42"	240°25'12"	-0°19'46"	14.11 m	31.834 AE	0.10"	+93.0°	99 %	+81.4°
24-09-2010	18h11m49s	-18°34'57"	241°10'14"	-0°52'39"	14.11 m	31.852 AE	0.10"	+92.0°	99 %	+93.4°
25-09-2010	18h11m50s	-18°35'12"	241°55'05"	-1°25'45"	14.11 m	31.869 AE	0.10"	+91.0°	97 %	+105.5°
26-09-2010	18h11m52s	-18°35'26"	242°39'45"	-1°59'04"	14.11 m	31.887 AE	0.10"	+90.1°	93 %	+117.7°
27-09-2010	18h11m53s	-18°35'41"	243°24'14"	-2°32'34"	14.11 m	31.904 AE	0.10"	+89.1°	88 %	+130.0°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 5°15'43"N
 Län.: 86°54'27"W

Objekt

Zwergplanet:
 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
28-09-2010	18h11m55s	-18°35'56"	244°08'33"	-3°06'17"	14.11 m	31.922 AE	0.10"	+88.1°	81 %	+142.5°
29-09-2010	18h11m57s	-18°36'11"	244°52'42"	-3°40'11"	14.11 m	31.939 AE	0.10"	+87.2°	72 %	+155.2°
30-09-2010	18h11m59s	-18°36'25"	245°36'42"	-4°14'15"	14.12 m	31.957 AE	0.10"	+86.2°	63 %	+167.8°
01-10-2010	18h12m01s	-18°36'40"	246°20'33"	-4°48'31"	14.12 m	31.974 AE	0.10"	+85.2°	52 %	+175.1°
02-10-2010	18h12m03s	-18°36'54"	247°04'15"	-5°22'56"	14.12 m	31.992 AE	0.10"	+84.3°	41 %	+163.8°
03-10-2010	18h12m06s	-18°37'08"	247°47'50"	-5°57'32"	14.12 m	32.009 AE	0.10"	+83.3°	30 %	+150.1°
04-10-2010	18h12m08s	-18°37'23"	248°31'18"	-6°32'17"	14.12 m	32.026 AE	0.10"	+82.3°	20 %	+135.9°
05-10-2010	18h12m11s	-18°37'37"	249°14'39"	-7°07'10"	14.12 m	32.044 AE	0.10"	+81.3°	12 %	+121.4°
06-10-2010	18h12m14s	-18°37'51"	249°57'53"	-7°42'13"	14.12 m	32.061 AE	0.10"	+80.4°	5 %	+106.6°
07-10-2010	18h12m17s	-18°38'05"	250°41'01"	-8°17'24"	14.12 m	32.078 AE	0.10"	+79.4°	1 %	+91.8°
08-10-2010	18h12m20s	-18°38'19"	251°24'05"	-8°52'43"	14.12 m	32.096 AE	0.10"	+78.4°	0 %	+77.0°
09-10-2010	18h12m23s	-18°38'33"	252°07'03"	-9°28'09"	14.12 m	32.113 AE	0.10"	+77.5°	2 %	+62.5°
10-10-2010	18h12m26s	-18°38'47"	252°49'57"	-10°03'43"	14.13 m	32.130 AE	0.10"	+76.5°	6 %	+48.2°
11-10-2010	18h12m30s	-18°39'01"	253°32'48"	-10°39'24"	14.13 m	32.147 AE	0.10"	+75.5°	13 %	+34.5°
12-10-2010	18h12m33s	-18°39'14"	254°15'35"	-11°15'11"	14.13 m	32.164 AE	0.10"	+74.5°	21 %	+21.3°
13-10-2010	18h12m37s	-18°39'28"	254°58'20"	-11°51'05"	14.13 m	32.181 AE	0.10"	+73.6°	30 %	+9.3°
14-10-2010	18h12m41s	-18°39'41"	255°41'02"	-12°27'04"	14.13 m	32.197 AE	0.10"	+72.6°	40 %	+7.6°
15-10-2010	18h12m45s	-18°39'54"	256°23'43"	-13°03'09"	14.13 m	32.214 AE	0.10"	+71.6°	50 %	+18.4°
16-10-2010	18h12m49s	-18°40'07"	257°06'23"	-13°39'19"	14.13 m	32.231 AE	0.10"	+70.7°	59 %	+30.2°
17-10-2010	18h12m53s	-18°40'20"	257°49'03"	-14°15'35"	14.13 m	32.247 AE	0.10"	+69.7°	69 %	+42.0°
18-10-2010	18h12m57s	-18°40'33"	258°31'44"	-14°51'54"	14.13 m	32.264 AE	0.10"	+68.7°	77 %	+53.8°
19-10-2010	18h13m02s	-18°40'46"	259°14'25"	-15°28'18"	14.13 m	32.280 AE	0.10"	+67.8°	84 %	+65.6°
20-10-2010	18h13m06s	-18°40'59"	259°57'07"	-16°04'46"	14.13 m	32.296 AE	0.10"	+66.8°	90 %	+77.5°
21-10-2010	18h13m11s	-18°41'11"	260°39'52"	-16°41'18"	14.13 m	32.312 AE	0.10"	+65.8°	95 %	+89.5°
22-10-2010	18h13m16s	-18°41'24"	261°22'39"	-17°17'52"	14.13 m	32.328 AE	0.10"	+64.8°	98 %	+101.6°
23-10-2010	18h13m21s	-18°41'36"	262°05'30"	-17°54'30"	14.13 m	32.344 AE	0.10"	+63.9°	99 %	+113.9°
24-10-2010	18h13m26s	-18°41'48"	262°48'24"	-18°31'10"	14.14 m	32.360 AE	0.10"	+62.9°	99 %	+126.4°
25-10-2010	18h13m31s	-18°42'00"	263°31'24"	-19°07'53"	14.14 m	32.375 AE	0.10"	+61.9°	96 %	+139.0°
26-10-2010	18h13m36s	-18°42'12"	264°14'28"	-19°44'37"	14.14 m	32.391 AE	0.10"	+61.0°	91 %	+151.8°
27-10-2010	18h13m42s	-18°42'24"	264°57'39"	-20°21'23"	14.14 m	32.406 AE	0.10"	+60.0°	85 %	+164.6°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 5°15'43"N
 Län.: 86°54'27"W

Objekt

Zwergplanet:
 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
28-10-2010	18h13m47s	-18°42'36"	265°40'57"	-20°58'11"	14.14 m	32.421 AE	0.10"	+59.0°	77 %	+175.5°
29-10-2010	18h13m53s	-18°42'47"	266°24'21"	-21°34'59"	14.14 m	32.436 AE	0.10"	+58.0°	67 %	+167.3°
30-10-2010	18h13m58s	-18°42'59"	267°07'54"	-22°11'48"	14.14 m	32.451 AE	0.10"	+57.1°	56 %	+154.1°
31-10-2010	18h14m04s	-18°43'10"	267°51'36"	-22°48'37"	14.14 m	32.466 AE	0.10"	+56.1°	45 %	+140.3°
01-11-2010	18h14m10s	-18°43'22"	280°37'53"	-32°56'56"	14.14 m	32.481 AE	0.10"	+55.1°	34 %	+125.7°
02-11-2010	18h14m16s	-18°43'32"	281°26'48"	-33°33'04"	14.14 m	32.495 AE	0.10"	+54.1°	23 %	+111.4°
03-11-2010	18h14m22s	-18°43'43"	282°16'09"	-34°09'05"	14.14 m	32.509 AE	0.10"	+53.1°	14 %	+97.0°
04-11-2010	18h14m29s	-18°43'54"	283°05'56"	-34°44'58"	14.14 m	32.523 AE	0.10"	+52.2°	7 %	+82.6°
05-11-2010	18h14m35s	-18°44'04"	283°56'12"	-35°20'43"	14.14 m	32.537 AE	0.10"	+51.2°	2 %	+68.2°
06-11-2010	18h14m41s	-18°44'15"	284°46'57"	-35°56'19"	14.14 m	32.551 AE	0.10"	+50.2°	0 %	+53.9°
07-11-2010	18h14m48s	-18°44'25"	285°38'13"	-36°31'46"	14.14 m	32.564 AE	0.10"	+49.3°	0 %	+39.9°
08-11-2010	18h14m55s	-18°44'35"	286°30'00"	-37°07'03"	14.14 m	32.578 AE	0.10"	+48.3°	4 %	+26.4°
09-11-2010	18h15m01s	-18°44'45"	287°22'20"	-37°42'10"	14.14 m	32.591 AE	0.10"	+47.3°	9 %	+13.5°
10-11-2010	18h15m08s	-18°44'54"	288°15'14"	-38°17'05"	14.14 m	32.604 AE	0.10"	+46.3°	16 %	+5.1°
11-11-2010	18h15m15s	-18°45'04"	289°08'44"	-38°51'49"	14.14 m	32.616 AE	0.10"	+45.4°	24 %	+14.1°
12-11-2010	18h15m22s	-18°45'13"	290°02'51"	-39°26'21"	14.14 m	32.629 AE	0.10"	+44.4°	33 %	+26.0°
13-11-2010	18h15m29s	-18°45'22"	290°57'36"	-40°00'40"	14.14 m	32.641 AE	0.10"	+43.4°	43 %	+37.9°
14-11-2010	18h15m36s	-18°45'31"	291°53'01"	-40°34'46"	14.14 m	32.653 AE	0.10"	+42.4°	52 %	+49.7°
15-11-2010	18h15m43s	-18°45'40"	292°49'07"	-41°08'37"	14.14 m	32.665 AE	0.10"	+41.5°	61 %	+61.5°
16-11-2010	18h15m51s	-18°45'49"	293°45'56"	-41°42'14"	14.14 m	32.677 AE	0.10"	+40.5°	70 %	+73.3°
17-11-2010	18h15m58s	-18°45'57"	294°43'28"	-42°15'35"	14.14 m	32.688 AE	0.10"	+39.5°	79 %	+85.2°
18-11-2010	18h16m06s	-18°46'05"	295°41'46"	-42°48'40"	14.14 m	32.699 AE	0.10"	+38.5°	86 %	+97.2°
19-11-2010	18h16m13s	-18°46'13"	296°40'51"	-43°21'28"	14.14 m	32.710 AE	0.10"	+37.6°	92 %	+109.4°
20-11-2010	18h16m21s	-18°46'21"	297°40'44"	-43°53'58"	14.14 m	32.721 AE	0.10"	+36.6°	96 %	+121.9°
21-11-2010	18h16m29s	-18°46'29"	298°41'28"	-44°26'10"	14.14 m	32.731 AE	0.10"	+35.6°	99 %	+134.6°
22-11-2010	18h16m36s	-18°46'37"	299°43'03"	-44°58'03"	14.14 m	32.742 AE	0.10"	+34.7°	99 %	+147.6°
23-11-2010	18h16m44s	-18°46'44"	300°45'31"	-45°29'35"	14.14 m	32.752 AE	0.10"	+33.7°	98 %	+160.7°
24-11-2010	18h16m52s	-18°46'51"	301°48'54"	-46°00'46"	14.14 m	32.761 AE	0.10"	+32.7°	94 %	+173.3°
25-11-2010	18h17m00s	-18°46'58"	302°53'13"	-46°31'35"	14.14 m	32.771 AE	0.10"	+31.8°	88 %	+170.7°
26-11-2010	18h17m08s	-18°47'05"	303°58'30"	-47°02'01"	14.14 m	32.780 AE	0.10"	+30.8°	80 %	+157.4°

Sichtbarkeit

Datum/Standort

Datum: 01-01-2010
 Zeitraum: 1 Jahr
 Br.: 5°15'43"N
 Län.: 86°54'27"W

Objekt

Zwergplanet:
 Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azim	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
27-11-2010	18h17m16s	-18° 47 ' 12"	305° 04 ' 46"	-47° 32 ' 03"	14.14 m	32.789 AE	0.10"	+ 29.8°	71 %	+ 143.6°
28-11-2010	18h17m25s	-18° 47 ' 18"	306° 12 ' 02"	-48° 01 ' 40"	14.14 m	32.798 AE	0.10"	+ 28.9°	60 %	+ 129.7°
29-11-2010	18h17m33s	-18° 47 ' 25"	307° 20 ' 22"	-48° 30 ' 51"	14.14 m	32.806 AE	0.10"	+ 27.9°	48 %	+ 115.7°
30-11-2010	18h17m41s	-18° 47 ' 31"	308° 29 ' 44"	-48° 59 ' 35"	14.13 m	32.815 AE	0.10"	+ 26.9°	37 %	+ 101.6°
01-12-2010	18h17m50s	-18° 47 ' 37"	309° 40 ' 12"	-49° 27 ' 51"	14.13 m	32.823 AE	0.10"	+ 26.0°	26 %	+ 87.5°
02-12-2010	18h17m58s	-18° 47 ' 42"	310° 51 ' 47"	-49° 55 ' 38"	14.13 m	32.830 AE	0.10"	+ 25.0°	17 %	+ 73.5°
03-12-2010	18h18m07s	-18° 47 ' 48"	312° 04 ' 29"	-50° 22 ' 54"	14.13 m	32.838 AE	0.10"	+ 24.1°	9 %	+ 59.6°
04-12-2010	18h18m15s	-18° 47 ' 53"	313° 18 ' 20"	-50° 49 ' 39"	14.13 m	32.845 AE	0.10"	+ 23.1°	3 %	+ 45.8°
05-12-2010	18h18m24s	-18° 47 ' 58"	314° 33 ' 22"	-51° 15 ' 51"	14.13 m	32.852 AE	0.10"	+ 22.1°	0 %	+ 32.2°
06-12-2010	18h18m32s	-18° 48 ' 03"	315° 49 ' 34"	-51° 41 ' 28"	14.13 m	32.859 AE	0.10"	+ 21.2°	0 %	+ 19.0°
07-12-2010	18h18m41s	-18° 48 ' 08"	317° 06 ' 59"	-52° 06 ' 31"	14.13 m	32.865 AE	0.10"	+ 20.2°	1 %	+ 7.1°
08-12-2010	18h18m50s	-18° 48 ' 13"	318° 25 ' 36"	-52° 30 ' 57"	14.13 m	32.871 AE	0.10"	+ 19.3°	5 %	+ 9.0°
09-12-2010	18h18m58s	-18° 48 ' 17"	319° 45 ' 27"	-52° 54 ' 45"	14.13 m	32.877 AE	0.10"	+ 18.3°	11 %	+ 20.7°
10-12-2010	18h19m07s	-18° 48 ' 21"	321° 06 ' 32"	-53° 17 ' 54"	14.13 m	32.883 AE	0.10"	+ 17.4°	18 %	+ 32.8°
11-12-2010	18h19m16s	-18° 48 ' 25"	322° 28 ' 52"	-53° 40 ' 22"	14.13 m	32.888 AE	0.10"	+ 16.4°	26 %	+ 44.8°
12-12-2010	18h19m25s	-18° 48 ' 29"	323° 52 ' 26"	-54° 02 ' 08"	14.13 m	32.893 AE	0.10"	+ 15.5°	35 %	+ 56.6°
13-12-2010	18h19m34s	-18° 48 ' 33"	325° 17 ' 14"	-54° 23 ' 11"	14.13 m	32.898 AE	0.10"	+ 14.5°	44 %	+ 68.3°
14-12-2010	18h19m43s	-18° 48 ' 36"	326° 43 ' 16"	-54° 43 ' 29"	14.13 m	32.902 AE	0.10"	+ 13.6°	53 %	+ 80.1°
15-12-2010	18h19m52s	-18° 48 ' 39"	328° 10 ' 33"	-55° 03 ' 02"	14.12 m	32.906 AE	0.10"	+ 12.7°	63 %	+ 91.9°
16-12-2010	18h20m01s	-18° 48 ' 42"	329° 39 ' 02"	-55° 21 ' 46"	14.12 m	32.910 AE	0.10"	+ 11.8°	71 %	+ 103.9°
17-12-2010	18h20m10s	-18° 48 ' 45"	331° 08 ' 42"	-55° 39 ' 42"	14.12 m	32.914 AE	0.10"	+ 10.9°	80 %	+ 116.2°
18-12-2010	18h20m19s	-18° 48 ' 48"	332° 39 ' 33"	-55° 56 ' 48"	14.12 m	32.917 AE	0.10"	+ 10.0°	87 %	+ 128.7°
19-12-2010	18h20m28s	-18° 48 ' 51"	334° 11 ' 33"	-56° 13 ' 02"	14.12 m	32.920 AE	0.10"	+ 9.1°	93 %	+ 141.6°
20-12-2010	18h20m37s	-18° 48 ' 53"	335° 44 ' 40"	-56° 28 ' 23"	14.12 m	32.923 AE	0.10"	+ 8.3°	97 %	+ 154.8°
21-12-2010	18h20m46s	-18° 48 ' 55"	337° 18 ' 51"	-56° 42 ' 50"	14.12 m	32.925 AE	0.10"	+ 7.5°	99 %	+ 168.1°
22-12-2010	18h20m55s	-18° 48 ' 57"	338° 54 ' 04"	-56° 56 ' 22"	14.12 m	32.927 AE	0.10"	+ 6.7°	99 %	+ 175.3°
23-12-2010	18h21m04s	-18° 48 ' 59"	340° 30 ' 17"	-57° 08 ' 57"	14.12 m	32.929 AE	0.10"	+ 6.0°	96 %	+ 162.7°
24-12-2010	18h21m13s	-18° 49 ' 00"	342° 07 ' 25"	-57° 20 ' 34"	14.12 m	32.930 AE	0.10"	+ 5.4°	91 %	+ 148.5°
25-12-2010	18h21m22s	-18° 49 ' 02"	343° 45 ' 26"	-57° 31 ' 12"	14.12 m	32.932 AE	0.10"	+ 5.0°	83 %	+ 134.2°
26-12-2010	18h21m31s	-18° 49 ' 03"	345° 24 ' 15"	-57° 40 ' 51"	14.12 m	32.933 AE	0.10"	+ 4.6°	74 %	+ 119.9°

Sichtbarkeit**Datum/Standort**

Datum: 01-01-2010
Zeitraum: 1 Jahr
Br.: 5°15'43"N
Län.: 86°54'27"W

Objekt

Zwergplanet:
Pluto

Datum (0:00 Ortszeit)	Scheinbarer Ort		Azm	Höhe	Helligkeit	Entf.	Winkeld.	Sonne Elong.	Mond	
	RA	Dek							Phase	Winkel
27-12-2010	18h21m41s	-18° 49 ' 04"	347° 03 ' 49"	-57° 49 ' 28"	14.12 m	32.933 AE	0.10"	+ 4.5°	63 %	+ 105.7°
28-12-2010	18h21m50s	-18° 49 ' 05"	348° 44 ' 03"	-57° 57 ' 04"	14.12 m	32.934 AE	0.10"	+ 4.6°	52 %	+ 91.6°
29-12-2010	18h21m59s	-18° 49 ' 06"	350° 24 ' 53"	-58° 03 ' 38"	14.12 m	32.934 AE	0.10"	+ 4.9°	41 %	+ 77.6°
30-12-2010	18h22m08s	-18° 49 ' 06"	352° 06 ' 13"	-58° 09 ' 09"	14.12 m	32.934 AE	0.10"	+ 5.3°	30 %	+ 63.9°
31-12-2010	18h22m17s	-18° 49 ' 06"	353° 47 ' 59"	-58° 13 ' 35"	14.12 m	32.933 AE	0.10"	+ 5.9°	20 %	+ 50.3°