

Aufgang/Untergang

Datum/Standort

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

Objekt

Zwergplanet:
 Ceres

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
01-01-2010	05:23	116°49' 51"	09:59	+22°21' 33"	14:34	243°06' 40"	08:31	16:32	17:37	09:01
02-01-2010	05:21	116°58' 53"	09:56	+22°16' 12"	14:31	242°57' 41"	08:31	16:34	19:06	09:34
03-01-2010	05:19	117°07' 48"	09:54	+22°10' 55"	14:28	242°48' 49"	08:31	16:35	20:34	10:00
04-01-2010	05:17	117°16' 36"	09:52	+22°05' 43"	14:26	242°40' 04"	08:30	16:36	21:59	10:21
05-01-2010	05:16	117°25' 17"	09:49	+22°00' 35"	14:23	242°31' 26"	08:30	16:37	23:21	10:39
06-01-2010	05:14	117°33' 52"	09:47	+21°55' 31"	14:20	242°22' 54"	08:30	16:38	---	10:56
07-01-2010	05:12	117°42' 19"	09:45	+21°50' 32"	14:17	242°14' 30"	08:30	16:39	00:41	11:15
08-01-2010	05:10	117°50' 40"	09:42	+21°45' 37"	14:14	242°06' 12"	08:29	16:41	01:59	11:35
09-01-2010	05:08	117°58' 53"	09:40	+21°40' 46"	14:12	241°58' 02"	08:29	16:42	03:16	12:00
10-01-2010	05:06	118°07' 00"	09:38	+21°36' 00"	14:09	241°49' 58"	08:28	16:43	04:29	12:30
11-01-2010	05:04	118°15' 00"	09:35	+21°31' 18"	14:06	241°42' 01"	08:28	16:45	05:37	13:10
12-01-2010	05:03	118°22' 53"	09:33	+21°26' 40"	14:03	241°34' 11"	08:27	16:46	06:36	13:59
13-01-2010	05:01	118°30' 39"	09:31	+21°22' 07"	14:01	241°26' 28"	08:26	16:48	07:23	14:57
14-01-2010	04:59	118°38' 18"	09:28	+21°17' 37"	13:58	241°18' 51"	08:26	16:49	08:01	16:02
15-01-2010	04:57	118°45' 51"	09:26	+21°13' 12"	13:55	241°11' 21"	08:25	16:51	08:29	17:10
16-01-2010	04:55	118°53' 16"	09:24	+21°08' 51"	13:52	241°03' 59"	08:24	16:52	08:52	18:18
17-01-2010	04:53	119°00' 35"	09:21	+21°04' 35"	13:49	240°56' 42"	08:23	16:54	09:10	19:27
18-01-2010	04:51	119°07' 47"	09:19	+21°00' 22"	13:47	240°49' 33"	08:22	16:55	09:26	20:34
19-01-2010	04:49	119°14' 53"	09:17	+20°56' 13"	13:44	240°42' 30"	08:21	16:57	09:40	21:41
20-01-2010	04:47	119°21' 52"	09:14	+20°52' 09"	13:41	240°35' 34"	08:20	16:58	09:54	22:49
21-01-2010	04:45	119°28' 44"	09:12	+20°48' 08"	13:38	240°28' 44"	08:19	17:00	10:09	23:58
22-01-2010	04:43	119°35' 30"	09:09	+20°44' 12"	13:36	240°22' 01"	08:18	17:02	10:26	---
23-01-2010	04:41	119°42' 09"	09:07	+20°40' 19"	13:33	240°15' 24"	08:17	17:03	10:46	01:10
24-01-2010	04:39	119°48' 42"	09:05	+20°36' 31"	13:30	240°08' 54"	08:16	17:05	11:12	02:25
25-01-2010	04:37	119°55' 09"	09:02	+20°32' 46"	13:27	240°02' 30"	08:15	17:07	11:48	03:40
26-01-2010	04:35	120°01' 29"	09:00	+20°29' 05"	13:24	239°56' 12"	08:13	17:08	12:36	04:53
27-01-2010	04:33	120°07' 43"	08:57	+20°25' 28"	13:22	239°50' 01"	08:12	17:10	13:41	05:57
28-01-2010	04:31	120°13' 51"	08:55	+20°21' 55"	13:19	239°43' 56"	08:11	17:12	15:00	06:49
29-01-2010	04:29	120°19' 52"	08:52	+20°18' 25"	13:16	239°37' 56"	08:10	17:13	16:28	07:28
30-01-2010	04:27	120°25' 48"	08:50	+20°14' 59"	13:13	239°32' 03"	08:08	17:15	17:59	07:58

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 Ceres

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
31-01-2010	04:25	120°31'37"	08:48	+20°11'37"	13:11	239°26'16"	08:07	17:17	19:29	08:22
01-02-2010	04:22	120°37'21"	08:45	+20°08'18"	13:08	239°20'35"	08:05	17:19	20:55	08:42
02-02-2010	04:20	120°42'58"	08:43	+20°05'03"	13:05	239°15'00"	08:04	17:20	22:19	09:01
03-02-2010	04:18	120°48'30"	08:40	+20°01'51"	13:02	239°09'30"	08:02	17:22	23:41	09:19
04-02-2010	04:16	120°53'56"	08:38	+19°58'43"	12:59	239°04'07"	08:01	17:24	---	09:40
05-02-2010	04:14	120°59'16"	08:35	+19°55'38"	12:57	238°58'49"	07:59	17:26	01:01	10:03
06-02-2010	04:12	121°04'31"	08:33	+19°52'36"	12:54	238°53'36"	07:57	17:27	02:18	10:32
07-02-2010	04:09	121°09'40"	08:30	+19°49'38"	12:51	238°48'29"	07:56	17:29	03:29	11:09
08-02-2010	04:07	121°14'43"	08:28	+19°46'43"	12:48	238°43'28"	07:54	17:31	04:31	11:55
09-02-2010	04:05	121°19'42"	08:25	+19°43'51"	12:45	238°38'31"	07:52	17:33	05:22	12:50
10-02-2010	04:03	121°24'35"	08:23	+19°41'03"	12:43	238°33'41"	07:51	17:35	06:02	13:53
11-02-2010	04:00	121°29'22"	08:20	+19°38'17"	12:40	238°28'55"	07:49	17:36	06:33	15:00
12-02-2010	03:58	121°34'05"	08:18	+19°35'35"	12:37	238°24'14"	07:47	17:38	06:58	16:08
13-02-2010	03:56	121°38'43"	08:15	+19°32'55"	12:34	238°19'38"	07:45	17:40	07:17	17:17
14-02-2010	03:54	121°43'15"	08:13	+19°30'19"	12:31	238°15'07"	07:44	17:42	07:34	18:24
15-02-2010	03:51	121°47'43"	08:10	+19°27'45"	12:29	238°10'41"	07:42	17:43	07:49	19:32
16-02-2010	03:49	121°52'07"	08:07	+19°25'14"	12:26	238°06'20"	07:40	17:45	08:03	20:39
17-02-2010	03:47	121°56'25"	08:05	+19°22'46"	12:23	238°02'03"	07:38	17:47	08:18	21:48
18-02-2010	03:44	122°00'39"	08:02	+19°20'20"	12:20	237°57'50"	07:36	17:49	08:34	22:58
19-02-2010	03:42	122°04'49"	08:00	+19°17'57"	12:17	237°53'42"	07:34	17:50	08:52	---
20-02-2010	03:39	122°08'55"	07:57	+19°15'36"	12:14	237°49'38"	07:32	17:52	09:16	00:11
21-02-2010	03:37	122°12'57"	07:54	+19°13'18"	12:11	237°45'38"	07:30	17:54	09:46	01:24
22-02-2010	03:35	122°16'54"	07:52	+19°11'02"	12:09	237°41'42"	07:28	17:56	10:28	02:36
23-02-2010	03:32	122°20'48"	07:49	+19°08'48"	12:06	237°37'49"	07:26	17:57	11:23	03:42
24-02-2010	03:30	122°24'38"	07:46	+19°06'37"	12:03	237°34'01"	07:24	17:59	12:32	04:37
25-02-2010	03:27	122°28'24"	07:44	+19°04'27"	12:00	237°30'16"	07:22	18:01	13:54	05:21
26-02-2010	03:25	122°32'07"	07:41	+19°02'20"	11:57	237°26'34"	07:20	18:02	15:22	05:55
27-02-2010	03:22	122°35'47"	07:38	+19°00'15"	11:54	237°22'56"	07:18	18:04	16:51	06:21
28-02-2010	03:20	122°39'23"	07:35	+18°58'11"	11:51	237°19'20"	07:16	18:06	18:20	06:43
01-03-2010	03:17	122°42'56"	07:33	+18°56'10"	11:48	237°15'48"	07:14	18:08	19:46	07:03

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	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
02-03-2010	03:15	122°46' 27"	07:30	+18°54' 10"	11:45	237°12' 19"	07:12	18:09	21:12	07:22
03-03-2010	03:12	122°49' 54"	07:27	+18°52' 11"	11:42	237°08' 53"	07:10	18:11	22:36	07:42
04-03-2010	03:10	122°53' 19"	07:24	+18°50' 15"	11:39	237°05' 29"	07:08	18:13	23:57	08:05
05-03-2010	03:07	122°56' 41"	07:22	+18°48' 20"	11:36	237°02' 08"	07:06	18:14	---	08:33
06-03-2010	03:04	123°00' 00"	07:19	+18°46' 26"	11:33	236°58' 49"	07:04	18:16	01:13	09:08
07-03-2010	03:02	123°03' 18"	07:16	+18°44' 34"	11:30	236°55' 33"	07:01	18:18	02:20	09:51
08-03-2010	02:59	123°06' 33"	07:13	+18°42' 42"	11:27	236°52' 18"	06:59	18:19	03:16	10:44
09-03-2010	02:57	123°09' 46"	07:10	+18°40' 52"	11:24	236°49' 06"	06:57	18:21	04:01	11:45
10-03-2010	02:54	123°12' 58"	07:08	+18°39' 04"	11:21	236°45' 55"	06:55	18:23	04:35	12:50
11-03-2010	02:51	123°16' 07"	07:05	+18°37' 16"	11:18	236°42' 46"	06:53	18:24	05:02	13:58
12-03-2010	02:48	123°19' 16"	07:02	+18°35' 29"	11:15	236°39' 38"	06:51	18:26	05:23	15:06
13-03-2010	02:46	123°22' 23"	06:59	+18°33' 42"	11:12	236°36' 32"	06:48	18:28	05:41	16:14
14-03-2010	02:43	123°25' 28"	06:56	+18°31' 57"	11:09	236°33' 26"	06:46	18:29	05:56	17:21
15-03-2010	02:40	123°28' 33"	06:53	+18°30' 12"	11:06	236°30' 22"	06:44	18:31	06:11	18:29
16-03-2010	02:38	123°31' 37"	06:50	+18°28' 27"	11:03	236°27' 18"	06:42	18:33	06:26	19:38
17-03-2010	02:35	123°34' 40"	06:47	+18°26' 43"	10:59	236°24' 16"	06:40	18:34	06:42	20:48
18-03-2010	02:32	123°37' 43"	06:44	+18°25' 00"	10:56	236°21' 13"	06:37	18:36	07:00	22:00
19-03-2010	02:29	123°40' 45"	06:41	+18°23' 16"	10:53	236°18' 11"	06:35	18:37	07:22	23:14
20-03-2010	02:26	123°43' 47"	06:38	+18°21' 33"	10:50	236°15' 09"	06:33	18:39	07:50	---
21-03-2010	02:23	123°46' 49"	06:35	+18°19' 50"	10:47	236°12' 07"	06:31	18:41	08:28	00:26
22-03-2010	02:21	123°49' 51"	06:32	+18°18' 06"	10:43	236°09' 05"	06:29	18:42	09:17	01:32
23-03-2010	02:18	123°52' 54"	06:29	+18°16' 23"	10:40	236°06' 02"	06:26	18:44	10:20	02:30
24-03-2010	02:15	123°55' 57"	06:26	+18°14' 39"	10:37	236°02' 59"	06:24	18:46	11:34	03:16
25-03-2010	02:12	123°59' 00"	06:23	+18°12' 55"	10:34	235°59' 55"	06:22	18:47	12:56	03:53
26-03-2010	02:09	124°02' 05"	06:20	+18°11' 11"	10:30	235°56' 51"	06:20	18:49	14:22	04:21
27-03-2010	02:06	124°05' 10"	06:16	+18°09' 26"	10:27	235°53' 45"	06:18	18:50	15:48	04:44
28-03-2010	02:03	124°08' 16"	07:13	+18°07' 40"	11:24	235°50' 38"	07:15	19:52	18:13	06:05
29-03-2010	03:00	124°11' 24"	07:10	+18°05' 54"	11:20	235°47' 30"	07:13	19:54	19:39	06:24
30-03-2010	02:57	124°14' 33"	07:07	+18°04' 07"	11:17	235°44' 21"	07:11	19:55	21:04	06:44
31-03-2010	02:54	124°17' 44"	07:04	+18°02' 19"	11:13	235°41' 10"	07:09	19:57	22:27	07:05

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	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
01-04-2010	02:51	124°20'56"	07:00	+18°00'30"	11:10	235°37'57"	07:07	19:58	23:48	07:31
02-04-2010	02:48	124°24'10"	06:57	+17°58'40"	11:07	235°34'42"	07:04	20:00	---	08:04
03-04-2010	02:45	124°27'27"	06:54	+17°56'49"	11:03	235°31'25"	07:02	20:02	01:01	08:44
04-04-2010	02:42	124°30'45"	06:50	+17°54'57"	11:00	235°28'05"	07:00	20:03	02:04	09:35
05-04-2010	02:38	124°34'06"	06:47	+17°53'04"	10:56	235°24'44"	06:58	20:05	02:55	10:34
06-04-2010	02:35	124°37'29"	06:44	+17°51'09"	10:52	235°21'20"	06:56	20:06	03:33	11:39
07-04-2010	02:32	124°40'55"	06:40	+17°49'12"	10:49	235°17'53"	06:54	20:08	04:03	12:46
08-04-2010	02:29	124°44'24"	06:37	+17°47'14"	10:45	235°14'23"	06:51	20:10	04:26	13:54
09-04-2010	02:26	124°47'56"	06:34	+17°45'15"	10:42	235°10'50"	06:49	20:11	04:46	15:02
10-04-2010	02:23	124°51'31"	06:30	+17°43'13"	10:38	235°07'13"	06:47	20:13	05:02	16:09
11-04-2010	02:19	124°55'10"	06:27	+17°41'10"	10:34	235°03'34"	06:45	20:14	05:17	17:17
12-04-2010	02:16	124°58'52"	06:23	+17°39'05"	10:31	234°59'51"	06:43	20:16	05:32	18:25
13-04-2010	02:13	125°02'37"	06:20	+17°36'58"	10:27	234°56'04"	06:41	20:18	05:48	19:35
14-04-2010	02:09	125°06'27"	06:16	+17°34'49"	10:23	234°52'51"	06:39	20:19	06:06	20:48
15-04-2010	02:06	125°10'20"	06:13	+17°32'38"	10:19	234°48'50"	06:37	20:21	06:27	22:01
16-04-2010	02:03	125°14'17"	06:09	+17°30'25"	10:16	234°44'45"	06:35	20:22	06:54	23:15
17-04-2010	01:59	125°18'18"	06:05	+17°28'09"	10:12	234°40'36"	06:32	20:24	07:29	---
18-04-2010	01:56	125°22'23"	06:02	+17°25'52"	10:08	234°36'22"	06:30	20:26	08:15	00:24
19-04-2010	01:53	125°26'33"	05:58	+17°23'31"	10:04	234°32'05"	06:28	20:27	09:14	01:25
20-04-2010	01:49	125°30'47"	05:55	+17°21'09"	10:00	234°27'42"	06:26	20:29	10:25	02:14
21-04-2010	01:46	125°35'05"	05:51	+17°18'44"	09:56	234°23'16"	06:24	20:30	11:43	02:53
22-04-2010	01:42	125°39'28"	05:47	+17°16'17"	09:52	234°18'44"	06:22	20:32	13:05	03:23
23-04-2010	01:39	125°43'56"	05:43	+17°13'47"	09:48	234°14'08"	06:20	20:33	14:28	03:47
24-04-2010	01:35	125°48'29"	05:40	+17°11'14"	09:44	234°09'27"	06:18	20:35	15:51	04:08
25-04-2010	01:32	125°53'06"	05:36	+17°08'39"	09:40	234°04'41"	06:17	20:37	17:13	04:27
26-04-2010	01:28	125°57'48"	05:32	+17°06'01"	09:36	234°00'35"	06:15	20:38	18:36	04:46
27-04-2010	01:25	126°02'35"	05:28	+17°03'21"	09:31	233°55'47"	06:13	20:40	19:59	05:07
28-04-2010	01:21	126°07'26"	05:24	+17°00'38"	09:27	233°50'54"	06:11	20:41	21:21	05:30
29-04-2010	01:17	126°12'23"	05:20	+16°57'53"	09:23	233°45'55"	06:09	20:43	22:38	06:00
30-04-2010	01:14	126°17'25"	05:16	+16°55'05"	09:19	233°40'52"	06:07	20:44	23:47	06:37

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	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
01-05-2010	01:10	126°22' 31"	05:12	+16°52' 14"	09:15	233°35' 44"	06:05	20:46	---	07:24
02-05-2010	01:06	126°27' 43"	05:08	+16°49' 21"	09:10	233°30' 31"	06:04	20:48	00:44	08:20
03-05-2010	01:03	126°32' 59"	05:04	+16°46' 25"	09:06	233°25' 13"	06:02	20:49	01:28	09:24
04-05-2010	00:59	126°38' 21"	05:00	+16°43' 26"	09:02	233°19' 50"	06:00	20:51	02:02	10:32
05-05-2010	00:55	126°43' 48"	04:56	+16°40' 25"	08:57	233°14' 22"	05:58	20:52	02:28	11:40
06-05-2010	00:51	126°49' 19"	04:52	+16°37' 21"	08:53	233°08' 49"	05:57	20:54	02:49	12:48
07-05-2010	00:48	126°54' 20"	04:48	+16°34' 15"	08:48	233°03' 11"	05:55	20:55	03:07	13:56
08-05-2010	00:44	127°00' 07"	04:44	+16°31' 06"	08:44	232°57' 28"	05:53	20:57	03:22	15:02
09-05-2010	00:40	127°05' 58"	04:40	+16°27' 55"	08:39	232°51' 41"	05:52	20:58	03:37	16:10
10-05-2010	00:36	127°11' 53"	04:36	+16°24' 41"	08:35	232°45' 49"	05:50	21:00	03:53	17:19
11-05-2010	00:32	127°17' 54"	04:31	+16°21' 25"	08:30	232°39' 53"	05:49	21:01	04:10	18:30
12-05-2010	00:28	127°23' 59"	04:27	+16°18' 07"	08:25	232°33' 52"	05:47	21:03	04:30	19:44
13-05-2010	00:24	127°30' 08"	04:23	+16°14' 47"	08:21	232°27' 46"	05:46	21:04	04:55	20:59
14-05-2010	00:21	127°36' 21"	04:18	+16°11' 24"	08:16	232°21' 37"	05:44	21:06	05:27	22:11
15-05-2010	00:17	127°42' 39"	04:14	+16°07' 59"	08:11	232°15' 23"	05:43	21:07	06:10	23:17
16-05-2010	00:13	127°49' 00"	04:10	+16°04' 33"	08:06	232°09' 06"	05:41	21:09	07:06	---
17-05-2010	00:09	127°55' 25"	04:05	+16°01' 04"	08:02	232°02' 45"	05:40	21:10	08:15	00:11
18-05-2010	00:05	128°01' 54"	04:01	+15°57' 34"	07:57	231°56' 20"	05:39	21:11	09:33	00:53
19-05-2010	00:01	128°08' 26"	03:56	+15°54' 02"	07:52	231°49' 52"	05:37	21:13	10:54	01:26
20-05-2010	23:56(-1T)	128°15' 01"	03:52	+15°50' 29"	07:47	231°43' 21"	05:36	21:14	12:17	01:52
21-05-2010	23:52(-1T)	128°21' 39"	03:47	+15°46' 54"	07:42	231°36' 47"	05:35	21:15	13:38	02:13
22-05-2010	23:48(-1T)	128°27' 39"	03:43	+15°43' 19"	07:37	231°30' 11"	05:34	21:17	14:59	02:32
23-05-2010	23:44(-1T)	128°34' 18"	03:38	+15°39' 42"	07:32	231°23' 32"	05:32	21:18	16:19	02:51
24-05-2010	23:40(-1T)	128°40' 58"	03:34	+15°36' 04"	07:27	231°16' 51"	05:31	21:19	17:40	03:10
25-05-2010	23:36(-1T)	128°47' 41"	03:29	+15°32' 25"	07:22	231°10' 08"	05:30	21:20	19:00	03:32
26-05-2010	23:32(-1T)	128°54' 25"	03:24	+15°28' 46"	07:17	231°03' 23"	05:29	21:22	20:18	03:59
27-05-2010	23:27(-1T)	129°01' 11"	03:20	+15°25' 06"	07:12	230°56' 37"	05:28	21:23	21:30	04:32
28-05-2010	23:23(-1T)	129°07' 58"	03:15	+15°21' 25"	07:07	230°49' 50"	05:27	21:24	22:32	05:14
29-05-2010	23:19(-1T)	129°14' 46"	03:11	+15°17' 45"	07:02	230°43' 02"	05:26	21:25	23:21	06:07
30-05-2010	23:15(-1T)	129°21' 35"	03:06	+15°14' 04"	06:57	230°36' 14"	05:26	21:26	---	07:08

Aufgang/Untergang

Datum/Standort

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

Objekt

Zwergplanet:
 Ceres

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
31-05-2010	23:10(-1T)	129°28'24"	03:01	+15°10'23"	06:52	230°29'25"	05:25	21:27	00:00	08:16
01-06-2010	23:06(-1T)	129°35'13"	02:56	+15°06'43"	06:47	230°22'36"	05:24	21:28	00:29	09:25
02-06-2010	23:02(-1T)	129°42'02"	02:52	+15°03'03"	06:41	230°15'47"	05:23	21:29	00:52	10:34
03-06-2010	22:57(-1T)	129°48'51"	02:47	+14°59'23"	06:36	230°08'59"	05:23	21:30	01:11	11:41
04-06-2010	22:53(-1T)	129°55'38"	02:42	+14°55'45"	06:31	230°02'12"	05:22	21:31	01:27	12:48
05-06-2010	22:48(-1T)	130°02'25"	02:37	+14°52'07"	06:26	229°55'26"	05:21	21:32	01:42	13:54
06-06-2010	22:44(-1T)	130°09'11"	02:32	+14°48'30"	06:21	229°48'41"	05:21	21:33	01:57	15:02
07-06-2010	22:40(-1T)	130°15'55"	02:28	+14°44'54"	06:15	229°41'58"	05:20	21:34	02:13	16:11
08-06-2010	22:35(-1T)	130°22'37"	02:23	+14°41'19"	06:10	229°35'17"	05:20	21:35	02:32	17:24
09-06-2010	22:31(-1T)	130°29'16"	02:18	+14°37'46"	06:05	229°28'38"	05:19	21:36	02:54	18:38
10-06-2010	22:26(-1T)	130°35'54"	02:13	+14°34'14"	06:00	229°22'01"	05:19	21:36	03:23	19:52
11-06-2010	22:22(-1T)	130°42'28"	02:08	+14°30'45"	05:54	229°15'28"	05:19	21:37	04:02	21:01
12-06-2010	22:17(-1T)	130°49'00"	02:03	+14°27'17"	05:49	229°08'58"	05:19	21:38	04:53	22:02
13-06-2010	22:13(-1T)	130°55'28"	01:58	+14°23'51"	05:44	229°02'31"	05:18	21:38	05:58	22:50
14-06-2010	22:08(-1T)	131°01'53"	01:54	+14°20'27"	05:38	228°56'07"	05:18	21:39	07:15	23:27
15-06-2010	22:04(-1T)	131°08'14"	01:49	+14°17'05"	05:33	228°49'47"	05:18	21:39	08:38	23:55
16-06-2010	21:59(-1T)	131°14'31"	01:44	+14°13'46"	05:28	228°43'32"	05:18	21:40	10:03	---
17-06-2010	21:55(-1T)	131°20'44"	01:39	+14°10'29"	05:23	228°37'20"	05:18	21:40	11:26	00:19
18-06-2010	21:50(-1T)	131°26'53"	01:34	+14°07'15"	05:17	228°31'14"	05:18	21:40	12:48	00:39
19-06-2010	21:46(-1T)	131°32'57"	01:29	+14°04'03"	05:12	228°25'11"	05:18	21:41	14:08	00:57
20-06-2010	21:41(-1T)	131°38'56"	01:24	+14°00'54"	05:07	228°19'14"	05:18	21:41	15:28	01:16
21-06-2010	21:37(-1T)	131°44'50"	01:19	+13°57'48"	05:01	228°13'21"	05:18	21:41	16:47	01:37
22-06-2010	21:32(-1T)	131°50'40"	01:14	+13°54'45"	04:56	228°07'34"	05:19	21:41	18:04	02:01
23-06-2010	21:28(-1T)	131°56'24"	01:09	+13°51'45"	04:51	228°01'51"	05:19	21:42	19:17	02:32
24-06-2010	21:23(-1T)	132°02'03"	01:04	+13°48'47"	04:46	227°56'14"	05:19	21:42	20:22	03:10
25-06-2010	21:19(-1T)	132°07'36"	01:00	+13°45'53"	04:40	227°50'43"	05:20	21:42	21:16	03:58
26-06-2010	21:14(-1T)	132°13'04"	00:55	+13°43'02"	04:35	227°45'16"	05:20	21:42	21:58	04:56
27-06-2010	21:09(-1T)	132°18'27"	00:50	+13°40'13"	04:30	227°39'55"	05:20	21:42	22:30	06:01
28-06-2010	21:05(-1T)	132°23'44"	00:45	+13°37'28"	04:25	227°34'40"	05:21	21:41	22:55	07:10
29-06-2010	21:00(-1T)	132°28'56"	00:40	+13°34'46"	04:20	227°29'30"	05:21	21:41	23:16	08:19

Aufgang/Untergang

Datum/Standort

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

Objekt

Zwergplanet:
 Ceres

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
30-06-2010	20:56(-1T)	132°34' 02"	00:35	+13°32' 07"	04:14	227°24' 26"	05:22	21:41	23:33	09:27
01-07-2010	20:51(-1T)	132°39' 03"	00:30	+13°29' 30"	04:09	227°19' 27"	05:23	21:41	23:48	10:34
02-07-2010	20:47(-1T)	132°43' 58"	00:26	+13°26' 57"	04:04	227°14' 34"	05:23	21:41	---	11:41
03-07-2010	20:42(-1T)	132°48' 47"	00:21	+13°24' 27"	03:59	227°09' 46"	05:24	21:40	00:03	12:47
04-07-2010	20:38(-1T)	132°53' 31"	00:16	+13°22' 00"	03:54	227°05' 03"	05:25	21:40	00:19	13:55
05-07-2010	20:33(-1T)	132°58' 10"	00:11	+13°19' 36"	03:49	227°00' 26"	05:26	21:39	00:36	15:04
06-07-2010	20:29(-1T)	133°02' 44"	00:06	+13°17' 14"	03:44	226°55' 55"	05:26	21:39	00:56	16:16
07-07-2010	20:24(-1T)	133°07' 12"	00:02	+13°14' 56"	03:39	226°51' 28"	05:27	21:38	01:21	17:29
07-07-2010	20:20	133°11' 35"	23:57	+13°12' 40"	03:34(+1T)	226°47' 07"	05:27	21:38	01:21	17:29
08-07-2010	20:15	133°15' 53"	23:52	+13°10' 27"	03:29(+1T)	226°42' 50"	05:28	21:38	01:54	18:41
09-07-2010	20:11	133°20' 06"	23:47	+13°08' 16"	03:24(+1T)	226°38' 39"	05:29	21:37	02:38	19:46
10-07-2010	20:07	133°24' 14"	23:43	+13°06' 09"	03:19(+1T)	226°34' 32"	05:30	21:36	03:37	20:40
11-07-2010	20:02	133°28' 18"	23:38	+13°04' 03"	03:14(+1T)	226°30' 30"	05:31	21:36	04:49	21:23
12-07-2010	19:58	133°32' 17"	23:33	+13°02' 01"	03:09(+1T)	226°26' 33"	05:32	21:35	06:12	21:56
13-07-2010	19:53	133°36' 11"	23:29	+13°00' 00"	03:04(+1T)	226°22' 39"	05:33	21:34	07:39	22:22
14-07-2010	19:49	133°40' 01"	23:24	+12°58' 02"	02:59(+1T)	226°18' 51"	05:34	21:33	09:06	22:43
15-07-2010	19:45	133°43' 47"	23:20	+12°56' 06"	02:54(+1T)	226°15' 06"	05:35	21:32	10:31	23:03
16-07-2010	19:40	133°47' 29"	23:15	+12°54' 12"	02:50(+1T)	226°11' 25"	05:36	21:31	11:54	23:22
17-07-2010	19:36	133°51' 08"	23:11	+12°52' 20"	02:45(+1T)	226°07' 48"	05:38	21:30	13:15	23:43
18-07-2010	19:32	133°54' 42"	23:06	+12°50' 31"	02:40(+1T)	226°04' 15"	05:39	21:29	14:36	---
19-07-2010	19:28	133°58' 13"	23:02	+12°48' 43"	02:36(+1T)	226°00' 45"	05:40	21:28	15:54	00:06
20-07-2010	19:23	134°01' 41"	22:57	+12°46' 56"	02:31(+1T)	225°57' 18"	05:41	21:27	17:08	00:34
21-07-2010	19:19	134°05' 05"	22:53	+12°45' 12"	02:26(+1T)	225°53' 54"	05:42	21:26	18:15	01:10
22-07-2010	19:15	134°08' 27"	22:48	+12°43' 29"	02:22(+1T)	225°50' 34"	05:44	21:25	19:12	01:54
23-07-2010	19:11	134°11' 46"	22:44	+12°41' 48"	02:17(+1T)	225°47' 16"	05:45	21:23	19:57	02:48
24-07-2010	19:07	134°15' 02"	22:40	+12°40' 08"	02:12(+1T)	225°44' 01"	05:46	21:22	20:32	03:50
25-07-2010	19:02	134°18' 15"	22:35	+12°38' 29"	02:08(+1T)	225°40' 48"	05:48	21:21	21:00	04:58
26-07-2010	18:58	134°22' 01"	22:31	+12°36' 52"	02:03(+1T)	225°37' 37"	05:49	21:19	21:21	06:07
27-07-2010	18:54	134°25' 04"	22:27	+12°35' 15"	01:59(+1T)	225°34' 29"	05:50	21:18	21:39	07:15
28-07-2010	18:50	134°28' 05"	22:23	+12°33' 40"	01:55(+1T)	225°31' 23"	05:52	21:17	21:55	08:23

Aufgang/Untergang

Datum/Standort

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

Objekt

Zwergplanet:
 Ceres

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
29-07-2010	18:46	134°31' 04"	22:18	+12°32' 06"	01:50(+1T)	225°28' 19"	05:53	21:15	22:11	09:29
30-07-2010	18:42	134°34' 01"	22:14	+12°30' 33"	01:46(+1T)	225°25' 16"	05:54	21:14	22:26	10:35
31-07-2010	18:38	134°36' 56"	22:10	+12°29' 01"	01:41(+1T)	225°22' 15"	05:56	21:12	22:42	11:42
01-08-2010	18:34	134°39' 50"	22:06	+12°27' 30"	01:37(+1T)	225°19' 16"	05:57	21:11	23:00	12:50
02-08-2010	18:30	134°42' 42"	22:02	+12°25' 59"	01:33(+1T)	225°16' 18"	05:59	21:09	23:22	13:59
03-08-2010	18:26	134°45' 33"	21:58	+12°24' 30"	01:28(+1T)	225°13' 21"	06:00	21:07	23:51	15:10
04-08-2010	18:23	134°48' 22"	21:53	+12°23' 01"	01:24(+1T)	225°10' 26"	06:02	21:06	---	16:21
05-08-2010	18:19	134°51' 10"	21:49	+12°21' 32"	01:20(+1T)	225°07' 32"	06:03	21:04	00:29	17:28
06-08-2010	18:15	134°53' 58"	21:45	+12°20' 04"	01:16(+1T)	225°04' 38"	06:05	21:02	01:19	18:26
07-08-2010	18:11	134°57' 23"	21:41	+12°18' 37"	01:12(+1T)	225°01' 46"	06:06	21:01	02:23	19:14
08-08-2010	18:07	135°00' 15"	21:37	+12°17' 10"	01:08(+1T)	224°58' 55"	06:07	20:59	03:41	19:51
09-08-2010	18:04	135°03' 06"	21:34	+12°15' 44"	01:03(+1T)	224°55' 31"	06:09	20:57	05:06	20:21
10-08-2010	18:00	135°05' 56"	21:30	+12°14' 18"	00:59(+1T)	224°52' 48"	06:10	20:55	06:34	20:45
11-08-2010	17:56	135°08' 46"	21:26	+12°12' 52"	00:55(+1T)	224°50' 05"	06:12	20:54	08:02	21:07
12-08-2010	17:53	135°11' 34"	21:22	+12°11' 27"	00:51(+1T)	224°47' 23"	06:13	20:52	09:29	21:27
13-08-2010	17:49	135°14' 23"	21:18	+12°10' 02"	00:47(+1T)	224°44' 41"	06:15	20:50	10:54	21:47
14-08-2010	17:45	135°17' 10"	21:14	+12°08' 38"	00:43(+1T)	224°42' 00"	06:16	20:48	12:18	22:10
15-08-2010	17:42	135°19' 58"	21:11	+12°07' 13"	00:39(+1T)	224°39' 20"	06:18	20:46	13:40	22:38
16-08-2010	17:38	135°22' 44"	21:07	+12°05' 49"	00:35(+1T)	224°36' 40"	06:19	20:44	14:57	23:11
17-08-2010	17:35	135°25' 31"	21:03	+12°04' 26"	00:32(+1T)	224°34' 00"	06:21	20:42	16:07	23:53
18-08-2010	17:31	135°28' 16"	20:59	+12°03' 02"	00:28(+1T)	224°31' 20"	06:22	20:40	17:08	---
19-08-2010	17:28	135°31' 02"	20:56	+12°01' 39"	00:24(+1T)	224°28' 41"	06:24	20:38	17:56	00:44
20-08-2010	17:24	135°33' 47"	20:52	+12°00' 16"	00:20(+1T)	224°26' 03"	06:26	20:36	18:34	01:43
21-08-2010	17:21	135°36' 31"	20:48	+11°58' 54"	00:16(+1T)	224°22' 41"	06:27	20:34	19:04	02:49
22-08-2010	17:17	135°39' 15"	20:45	+11°57' 31"	00:12(+1T)	224°19' 57"	06:29	20:32	19:27	03:57
23-08-2010	17:14	135°41' 59"	20:41	+11°56' 09"	00:09(+1T)	224°17' 14"	06:30	20:30	19:46	05:05
24-08-2010	17:10	135°44' 42"	20:38	+11°54' 48"	00:05(+1T)	224°14' 31"	06:32	20:28	20:03	06:13
25-08-2010	17:07	135°47' 25"	20:34	+11°53' 26"	00:01(+1T)	224°11' 48"	06:33	20:26	20:19	07:20
26-08-2010	17:04	135°50' 07"	20:31	+11°52' 05"	23:58	224°09' 06"	06:35	20:24	20:34	08:26
27-08-2010	17:01	135°52' 48"	20:27	+11°50' 44"	23:54	224°06' 25"	06:36	20:22	20:49	09:32

Aufgang/Untergang

Datum/Standort

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

Objekt

Zwergplanet:
 Ceres

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
28-08-2010	16:57	135°55' 29"	20:24	+11°49' 24"	23:50	224°03' 44"	06:38	20:20	21:07	10:39
29-08-2010	16:54	135°58' 10"	20:20	+11°48' 04"	23:47	224°01' 04"	06:39	20:18	21:28	11:47
30-08-2010	16:51	136°00' 49"	20:17	+11°46' 44"	23:43	223°58' 25"	06:41	20:16	21:54	12:57
31-08-2010	16:48	136°03' 28"	20:13	+11°45' 25"	23:40	223°55' 47"	06:42	20:14	22:27	14:06
01-09-2010	16:44	136°06' 06"	20:10	+11°44' 06"	23:36	223°53' 09"	06:44	20:12	23:10	15:13
02-09-2010	16:41	136°08' 43"	20:07	+11°42' 48"	23:33	223°50' 32"	06:45	20:09	---	16:13
03-09-2010	16:38	136°11' 19"	20:03	+11°41' 31"	23:29	223°47' 57"	06:47	20:07	00:07	17:04
04-09-2010	16:35	136°13' 54"	20:00	+11°40' 13"	23:26	223°45' 22"	06:48	20:05	01:16	17:45
05-09-2010	16:32	136°16' 28"	19:57	+11°38' 57"	23:22	223°42' 49"	06:50	20:03	02:35	18:18
06-09-2010	16:29	136°19' 00"	19:54	+11°37' 41"	23:19	223°40' 16"	06:51	20:01	04:00	18:45
07-09-2010	16:26	136°21' 32"	19:51	+11°36' 26"	23:15	223°37' 45"	06:53	19:58	05:28	19:07
08-09-2010	16:23	136°24' 02"	19:47	+11°35' 12"	23:12	223°35' 16"	06:54	19:56	06:56	19:29
09-09-2010	16:19	136°26' 30"	19:44	+11°33' 58"	23:09	223°32' 48"	06:56	19:54	08:23	19:50
10-09-2010	16:16	136°28' 57"	19:41	+11°32' 45"	23:05	223°30' 21"	06:57	19:52	09:50	20:12
11-09-2010	16:13	136°31' 23"	19:38	+11°31' 33"	23:02	223°27' 56"	06:59	19:50	11:15	20:38
12-09-2010	16:10	136°33' 46"	19:35	+11°30' 22"	22:59	223°25' 33"	07:00	19:47	12:37	21:10
13-09-2010	16:08	136°36' 08"	19:32	+11°29' 12"	22:55	223°23' 12"	07:02	19:45	13:53	21:50
14-09-2010	16:05	136°38' 28"	19:28	+11°28' 03"	22:52	223°20' 52"	07:03	19:43	14:59	22:39
15-09-2010	16:02	136°40' 46"	19:25	+11°26' 54"	22:49	223°18' 35"	07:05	19:41	15:52	23:37
16-09-2010	15:59	136°43' 02"	19:22	+11°25' 47"	22:46	223°16' 19"	07:07	19:38	16:34	---
17-09-2010	15:56	136°45' 16"	19:19	+11°24' 41"	22:43	223°14' 06"	07:08	19:36	17:06	00:41
18-09-2010	15:53	136°47' 28"	19:16	+11°23' 36"	22:39	223°11' 55"	07:10	19:34	17:32	01:48
19-09-2010	15:50	136°49' 37"	19:13	+11°22' 33"	22:36	223°09' 47"	07:11	19:32	17:52	02:56
20-09-2010	15:47	136°51' 44"	19:10	+11°21' 30"	22:33	223°07' 41"	07:13	19:30	18:10	04:04
21-09-2010	15:44	136°53' 48"	19:07	+11°20' 29"	22:30	223°05' 38"	07:14	19:27	18:26	05:10
22-09-2010	15:42	136°55' 49"	19:04	+11°19' 30"	22:27	223°03' 37"	07:16	19:25	18:41	06:17
23-09-2010	15:39	136°57' 48"	19:01	+11°18' 31"	22:24	223°01' 39"	07:17	19:23	18:57	07:23
24-09-2010	15:36	136°59' 44"	18:58	+11°17' 35"	22:21	222°59' 44"	07:19	19:21	19:15	08:30
25-09-2010	15:33	137°01' 36"	18:55	+11°16' 39"	22:18	222°57' 52"	07:20	19:18	19:35	09:38
26-09-2010	15:30	137°03' 26"	18:53	+11°15' 46"	22:15	222°56' 04"	07:22	19:16	19:59	10:47

Aufgang/Untergang

Datum/Standort

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

Objekt

Zwergplanet:
 Ceres

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
27-09-2010	15:28	137°05' 12"	18:50	+11°14' 53"	22:12	222°54' 18"	07:23	19:14	20:30	11:56
28-09-2010	15:25	137°06' 55"	18:47	+11°14' 03"	22:09	222°52' 37"	07:25	19:12	21:09	13:03
29-09-2010	15:22	137°08' 35"	18:44	+11°13' 14"	22:06	222°50' 58"	07:26	19:09	22:00	14:05
30-09-2010	15:19	137°10' 10"	18:41	+11°12' 27"	22:03	222°49' 23"	07:28	19:07	23:03	14:58
01-10-2010	15:17	137°11' 43"	18:38	+11°11' 42"	22:00	222°47' 52"	07:30	19:05	---	15:41
02-10-2010	15:14	137°13' 11"	18:36	+11°10' 59"	21:57	222°46' 25"	07:31	19:03	00:16	16:16
03-10-2010	15:11	137°14' 36"	18:33	+11°10' 18"	21:54	222°45' 01"	07:33	19:01	01:35	16:44
04-10-2010	15:09	137°15' 56"	18:30	+11°09' 39"	21:51	222°43' 42"	07:34	18:58	02:59	17:08
05-10-2010	15:06	137°17' 12"	18:27	+11°09' 02"	21:49	222°42' 27"	07:36	18:56	04:24	17:29
06-10-2010	15:03	137°18' 24"	18:24	+11°08' 27"	21:46	222°41' 16"	07:37	18:54	05:49	17:50
07-10-2010	15:00	137°19' 32"	18:22	+11°07' 54"	21:43	222°40' 10"	07:39	18:52	07:16	18:12
08-10-2010	14:58	137°20' 35"	18:19	+11°07' 23"	21:40	222°39' 08"	07:41	18:50	08:42	18:37
09-10-2010	14:55	137°21' 34"	18:16	+11°06' 55"	21:37	222°38' 10"	07:42	18:48	10:08	19:07
10-10-2010	14:53	137°22' 28"	18:14	+11°06' 28"	21:35	222°37' 18"	07:44	18:46	11:29	19:44
11-10-2010	14:50	137°23' 17"	18:11	+11°06' 05"	21:32	222°36' 30"	07:46	18:43	12:41	20:31
12-10-2010	14:47	137°24' 02"	18:08	+11°05' 43"	21:29	222°35' 46"	07:47	18:41	13:42	21:26
13-10-2010	14:45	137°24' 41"	18:06	+11°05' 24"	21:26	222°35' 08"	07:49	18:39	14:29	22:30
14-10-2010	14:42	137°25' 16"	18:03	+11°05' 08"	21:24	222°34' 35"	07:50	18:37	15:06	23:37
15-10-2010	14:39	137°25' 45"	18:00	+11°04' 53"	21:21	222°34' 07"	07:52	18:35	15:34	---
16-10-2010	14:37	137°26' 10"	17:58	+11°04' 42"	21:18	222°33' 44"	07:54	18:33	15:57	00:46
17-10-2010	14:34	137°26' 29"	17:55	+11°04' 33"	21:16	222°33' 27"	07:55	18:31	16:15	01:53
18-10-2010	14:32	137°26' 42"	17:52	+11°04' 27"	21:13	222°33' 15"	07:57	18:29	16:32	03:00
19-10-2010	14:29	137°26' 50"	17:50	+11°04' 23"	21:10	222°33' 09"	07:59	18:27	16:48	04:06
20-10-2010	14:26	137°26' 53"	17:47	+11°04' 22"	21:08	222°33' 08"	08:00	18:25	17:04	05:12
21-10-2010	14:24	137°26' 49"	17:45	+11°04' 24"	21:05	222°33' 12"	08:02	18:23	17:21	06:19
22-10-2010	14:21	137°26' 41"	17:42	+11°04' 29"	21:03	222°33' 23"	08:04	18:21	17:40	07:27
23-10-2010	14:19	137°26' 26"	17:39	+11°04' 37"	21:00	222°33' 39"	08:05	18:19	18:04	08:36
24-10-2010	14:16	137°26' 05"	17:37	+11°04' 47"	20:58	222°34' 02"	08:07	18:17	18:33	09:46
25-10-2010	14:14	137°25' 39"	17:34	+11°05' 01"	20:55	222°34' 30"	08:09	18:15	19:10	10:55
26-10-2010	14:11	137°25' 06"	17:32	+11°05' 17"	20:53	222°35' 05"	08:10	18:13	19:58	11:58

Aufgang/Untergang

Datum/Standort

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

Objekt

Zwergplanet:
 Ceres

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
27-10-2010	14:08	137°24' 27"	17:29	+11°05' 37"	20:50	222°35' 45"	08:12	18:11	20:57	12:54
28-10-2010	14:06	137°23' 42"	17:27	+11°05' 59"	20:48	222°36' 32"	08:14	18:09	22:06	13:40
29-10-2010	14:03	137°22' 50"	17:24	+11°06' 25"	20:45	222°37' 25"	08:15	18:08	23:22	14:16
30-10-2010	14:01	137°21' 52"	17:22	+11°06' 54"	20:43	222°38' 25"	08:17	18:06	---	14:46
31-10-2010	12:58	137°20' 48"	16:19	+11°07' 26"	19:40	222°39' 31"	07:19	17:04	00:42	14:10
01-11-2010	12:56	137°19' 37"	16:17	+11°08' 01"	19:38	222°40' 44"	07:20	17:02	01:03	14:32
02-11-2010	12:53	137°18' 20"	16:14	+11°08' 39"	19:36	222°42' 03"	07:22	17:01	02:25	14:52
03-11-2010	12:50	137°16' 56"	16:12	+11°09' 21"	19:33	222°43' 29"	07:24	16:59	03:48	15:13
04-11-2010	12:48	137°15' 25"	16:09	+11°10' 06"	19:31	222°45' 02"	07:26	16:57	05:12	15:36
05-11-2010	12:45	137°13' 47"	16:07	+11°10' 55"	19:29	222°46' 42"	07:27	16:55	06:36	16:03
06-11-2010	12:43	137°12' 03"	16:05	+11°11' 46"	19:26	222°48' 28"	07:29	16:54	08:00	16:36
07-11-2010	12:40	137°10' 11"	16:02	+11°12' 41"	19:24	222°50' 21"	07:31	16:52	09:17	17:19
08-11-2010	12:38	137°08' 13"	16:00	+11°13' 40"	19:22	222°52' 21"	07:32	16:51	10:25	18:12
09-11-2010	12:35	137°06' 08"	15:57	+11°14' 42"	19:19	222°54' 28"	07:34	16:49	11:19	19:13
10-11-2010	12:33	137°03' 56"	15:55	+11°15' 47"	19:17	222°56' 42"	07:36	16:48	12:02	20:21
11-11-2010	12:30	137°01' 37"	15:52	+11°16' 56"	19:15	222°59' 03"	07:37	16:46	12:34	21:31
12-11-2010	12:27	136°59' 11"	15:50	+11°18' 09"	19:13	223°01' 31"	07:39	16:45	12:59	22:40
13-11-2010	12:25	136°56' 38"	15:48	+11°19' 25"	19:10	223°04' 07"	07:41	16:43	13:19	23:47
14-11-2010	12:22	136°53' 58"	15:45	+11°20' 44"	19:08	223°06' 49"	07:42	16:42	13:37	---
15-11-2010	12:20	136°51' 11"	15:43	+11°22' 07"	19:06	223°09' 38"	07:44	16:41	13:53	00:54
16-11-2010	12:17	136°48' 16"	15:41	+11°23' 34"	19:04	223°12' 34"	07:46	16:39	14:09	01:59
17-11-2010	12:15	136°45' 15"	15:38	+11°25' 04"	19:02	223°15' 38"	07:47	16:38	14:25	03:05
18-11-2010	12:12	136°42' 06"	15:36	+11°26' 38"	19:00	223°18' 49"	07:49	16:37	14:44	04:13
19-11-2010	12:10	136°38' 50"	15:33	+11°28' 15"	18:57	223°22' 07"	07:51	16:36	15:06	05:22
20-11-2010	12:07	136°35' 27"	15:31	+11°29' 57"	18:55	223°25' 32"	07:52	16:35	15:33	06:32
21-11-2010	12:04	136°31' 57"	15:29	+11°31' 41"	18:53	223°29' 05"	07:54	16:34	16:08	07:42
22-11-2010	12:02	136°28' 19"	15:26	+11°33' 30"	18:51	223°32' 44"	07:55	16:33	16:53	08:48
23-11-2010	11:59	136°24' 34"	15:24	+11°35' 22"	18:49	223°36' 31"	07:57	16:32	17:50	09:48
24-11-2010	11:57	136°20' 42"	15:22	+11°37' 18"	18:47	223°40' 26"	07:58	16:31	18:57	10:38
25-11-2010	11:54	136°16' 43"	15:19	+11°39' 18"	18:45	223°44' 27"	08:00	16:30	20:12	11:17

Aufgang/Untergang

Datum/Standort

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

Objekt

Zwergplanet:
 Ceres

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
26-11-2010	11:51	136°12'36"	15:17	+11°41'21"	18:43	223°48'36"	08:01	16:29	21:31	11:49
27-11-2010	11:49	136°08'22"	15:15	+11°43'28"	18:41	223°52'52"	08:03	16:28	22:51	12:15
28-11-2010	11:46	136°04'01"	15:12	+11°45'39"	18:39	223°57'16"	08:04	16:27	---	12:37
29-11-2010	11:44	135°59'32"	15:10	+11°47'54"	18:37	224°01'46"	08:06	16:26	00:11	12:57
30-11-2010	11:41	135°54'57"	15:08	+11°50'12"	18:35	224°06'25"	08:07	16:26	01:31	13:17
01-12-2010	11:38	135°50'13"	15:06	+11°52'34"	18:33	224°11'10"	08:09	16:25	02:52	13:38
02-12-2010	11:36	135°45'23"	15:03	+11°55'00"	18:31	224°16'03"	08:10	16:25	04:14	14:02
03-12-2010	11:33	135°40'25"	15:01	+11°57'30"	18:29	224°21'02"	08:11	16:24	05:35	14:32
04-12-2010	11:31	135°35'20"	14:59	+12°00'04"	18:27	224°26'10"	08:13	16:24	06:54	15:10
05-12-2010	11:28	135°30'08"	14:56	+12°02'41"	18:25	224°31'24"	08:14	16:23	08:06	15:57
06-12-2010	11:25	135°24'49"	14:54	+12°05'22"	18:23	224°36'45"	08:15	16:23	09:06	16:55
07-12-2010	11:23	135°19'23"	14:52	+12°08'07"	18:21	224°42'14"	08:16	16:23	09:54	18:01
08-12-2010	11:20	135°13'50"	14:50	+12°10'56"	18:19	224°47'49"	08:17	16:22	10:31	19:11
09-12-2010	11:17	135°08'09"	14:47	+12°13'48"	18:17	224°53'32"	08:18	16:22	11:00	20:22
10-12-2010	11:15	135°02'22"	14:45	+12°16'45"	18:15	224°59'22"	08:20	16:22	11:22	21:31
11-12-2010	11:12	134°56'28"	14:43	+12°19'45"	18:13	225°05'18"	08:21	16:22	11:41	22:39
12-12-2010	11:09	134°50'26"	14:40	+12°22'48"	18:12	225°11'21"	08:22	16:22	11:58	23:45
13-12-2010	11:07	134°44'18"	14:38	+12°25'56"	18:10	225°17'32"	08:22	16:22	12:14	---
14-12-2010	11:04	134°38'03"	14:36	+12°29'07"	18:08	225°23'49"	08:23	16:22	12:30	00:50
15-12-2010	11:01	134°31'42"	14:34	+12°32'21"	18:06	225°30'13"	08:24	16:22	12:47	01:56
16-12-2010	10:59	134°25'13"	14:31	+12°35'40"	18:04	225°36'43"	08:25	16:22	13:07	03:04
17-12-2010	10:56	134°18'38"	14:29	+12°39'02"	18:02	225°43'21"	08:26	16:22	13:32	04:13
18-12-2010	10:53	134°11'57"	14:27	+12°42'28"	18:00	225°50'04"	08:26	16:23	14:03	05:23
19-12-2010	10:51	134°05'08"	14:25	+12°45'57"	17:59	225°56'55"	08:27	16:23	14:44	06:32
20-12-2010	10:48	133°58'14"	14:22	+12°49'31"	17:57	226°03'52"	08:28	16:23	15:36	07:35
21-12-2010	10:45	133°51'12"	14:20	+12°53'07"	17:55	226°10'55"	08:28	16:24	16:41	08:30
22-12-2010	10:43	133°44'05"	14:18	+12°56'48"	17:53	226°18'05"	08:29	16:24	17:55	09:15
23-12-2010	10:40	133°36'51"	14:16	+13°00'32"	17:51	226°25'22"	08:29	16:25	19:16	09:50
24-12-2010	10:37	133°29'30"	14:13	+13°04'19"	17:50	226°32'44"	08:30	16:26	20:38	10:19
25-12-2010	10:34	133°22'03"	14:11	+13°08'11"	17:48	226°40'13"	08:30	16:26	22:00	10:42

Aufgang/Untergang

Datum/Standort

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

Objekt

Zwergplanet:
 Ceres

Datum	Aufgang		Meridiandurchgang		Untergang		Sonne		Mond	
	Ortszeit	Azm	Ortszeit	Höhe	Ortszeit	Azm	Aufgang	Untergang	Aufgang	Untergang
26-12-2010	10:32	133°14'30"	14:09	+13°12'05"	17:46	226°47'48"	08:30	16:27	23:20	11:03
27-12-2010	10:29	133°06'51"	14:07	+13°16'04"	17:44	226°55'30"	08:31	16:28	---	11:23
28-12-2010	10:26	132°59'06"	14:04	+13°20'06"	17:43	227°03'17"	08:31	16:29	00:41	11:44
29-12-2010	10:23	132°51'14"	14:02	+13°24'11"	17:41	227°11'11"	08:31	16:29	02:01	12:06
30-12-2010	10:21	132°43'17"	14:00	+13°28'20"	17:39	227°19'10"	08:31	16:30	03:21	12:34
31-12-2010	10:18	132°35'14"	13:58	+13°32'32"	17:37	227°27'16"	08:31	16:31	04:39	13:07