



Lever/Coucher

Date/position

Date: 01-01-2010
Période : 365 jours
Lat : 48°51'59"N
Lon : 2°20' 0"E

Objet

Planète:
Jupiter

Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
01-01-2010	11:03	110° 13' 15"	16:02	+27° 34' 03"	21:01	249° 49' 30"	08:46	17:02	18:07	09:16
02-01-2010	10:59	110° 06' 38"	15:59	+27° 38' 16"	20:58	249° 56' 09"	08:46	17:03	19:35	09:51
03-01-2010	10:56	109° 59' 58"	15:55	+27° 42' 31"	20:55	250° 02' 50"	08:46	17:04	21:01	10:19
04-01-2010	10:52	109° 53' 14"	15:52	+27° 46' 48"	20:52	250° 09' 35"	08:45	17:05	22:24	10:41
05-01-2010	10:49	109° 46' 28"	15:49	+27° 51' 07"	20:50	250° 16' 23"	08:45	17:06	23:44	11:01
06-01-2010	10:45	109° 39' 39"	15:46	+27° 55' 27"	20:47	250° 23' 14"	08:45	17:07	---	11:20
07-01-2010	10:42	109° 32' 46"	15:43	+27° 59' 50"	20:44	250° 30' 08"	08:45	17:08	01:02	11:40
08-01-2010	10:38	109° 25' 51"	15:40	+28° 04' 15"	20:41	250° 37' 04"	08:44	17:10	02:18	12:03
09-01-2010	10:35	109° 18' 53"	15:37	+28° 08' 42"	20:38	250° 44' 04"	08:44	17:11	03:33	12:29
10-01-2010	10:31	109° 11' 51"	15:34	+28° 13' 11"	20:36	250° 51' 07"	08:43	17:12	04:45	13:01
11-01-2010	10:28	109° 04' 48"	15:30	+28° 17' 42"	20:33	250° 58' 12"	08:43	17:14	05:51	13:42
12-01-2010	10:25	108° 57' 41"	15:27	+28° 22' 14"	20:30	251° 05' 20"	08:42	17:15	06:49	14:31
13-01-2010	10:21	108° 50' 31"	15:24	+28° 26' 49"	20:28	251° 12' 31"	08:42	17:16	07:37	15:29
14-01-2010	10:18	108° 43' 19"	15:21	+28° 31' 25"	20:25	251° 19' 44"	08:41	17:18	08:15	16:33
15-01-2010	10:14	108° 36' 05"	15:18	+28° 36' 03"	20:22	251° 27' 00"	08:40	17:19	08:45	17:39
16-01-2010	10:11	108° 28' 47"	15:15	+28° 40' 43"	20:19	251° 34' 19"	08:40	17:21	09:09	18:46
17-01-2010	10:07	108° 21' 28"	15:12	+28° 45' 24"	20:17	251° 41' 40"	08:39	17:22	09:29	19:53
18-01-2010	10:04	108° 14' 05"	15:09	+28° 50' 08"	20:14	251° 49' 03"	08:38	17:23	09:46	20:59
19-01-2010	10:00	108° 06' 41"	15:06	+28° 54' 52"	20:11	251° 56' 29"	08:37	17:25	10:02	22:04
20-01-2010	09:57	107° 59' 14"	15:03	+28° 59' 39"	20:09	252° 03' 57"	08:36	17:26	10:17	23:10
21-01-2010	09:53	107° 51' 45"	15:00	+29° 04' 27"	20:06	252° 11' 28"	08:35	17:28	10:34	---
22-01-2010	09:50	107° 44' 13"	14:56	+29° 09' 16"	20:03	252° 19' 01"	08:34	17:30	10:52	00:18
23-01-2010	09:46	107° 36' 39"	14:53	+29° 14' 07"	20:01	252° 26' 35"	08:33	17:31	11:14	01:29
24-01-2010	09:43	107° 29' 04"	14:50	+29° 19' 00"	19:58	252° 34' 12"	08:32	17:33	11:42	02:42
25-01-2010	09:39	107° 21' 26"	14:47	+29° 23' 54"	19:55	252° 41' 51"	08:31	17:34	12:19	03:56
26-01-2010	09:36	107° 13' 46"	14:44	+29° 28' 49"	19:53	252° 49' 32"	08:30	17:36	13:08	05:07
27-01-2010	09:32	107° 06' 04"	14:41	+29° 33' 46"	19:50	252° 57' 15"	08:29	17:37	14:13	06:11
28-01-2010	09:29	106° 58' 20"	14:38	+29° 38' 44"	19:47	253° 05' 00"	08:28	17:39	15:31	07:04
29-01-2010	09:26	106° 50' 35"	14:35	+29° 43' 43"	19:45	253° 12' 47"	08:26	17:41	16:58	07:45
30-01-2010	09:22	106° 42' 47"	14:32	+29° 48' 44"	19:42	253° 20' 35"	08:25	17:42	18:27	08:16



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Jupiter

Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
31-01-2010	09:19	106° 34' 58"	14:29	+29° 53' 46"	19:39	253° 28' 26"	08:24	17:44	19:54	08:42
01-02-2010	09:15	106° 27' 07"	14:26	+29° 58' 49"	19:37	253° 36' 18"	08:22	17:46	21:19	09:04
02-02-2010	09:12	106° 19' 14"	14:23	+30° 03' 54"	19:34	253° 44' 12"	08:21	17:47	22:41	09:24
03-02-2010	09:08	106° 11' 19"	14:20	+30° 08' 59"	19:31	253° 52' 07"	08:20	17:49	---	09:44
04-02-2010	09:05	106° 03' 23"	14:17	+30° 14' 06"	19:29	254° 00' 04"	08:18	17:51	00:01	10:07
05-02-2010	09:01	105° 55' 25"	14:14	+30° 19' 14"	19:26	254° 08' 03"	08:17	17:52	01:19	10:32
06-02-2010	08:58	105° 47' 26"	14:11	+30° 24' 23"	19:24	254° 16' 04"	08:15	17:54	02:34	11:03
07-02-2010	08:54	105° 39' 25"	14:08	+30° 29' 33"	19:21	254° 24' 05"	08:14	17:56	03:43	11:41
08-02-2010	08:51	105° 31' 23"	14:05	+30° 34' 45"	19:18	254° 32' 09"	08:12	17:57	04:44	12:27
09-02-2010	08:48	105° 23' 19"	14:02	+30° 39' 57"	19:16	254° 40' 13"	08:10	17:59	05:35	13:23
10-02-2010	08:44	105° 15' 14"	13:59	+30° 45' 10"	19:13	254° 48' 19"	08:09	18:01	06:16	14:24
11-02-2010	08:41	105° 07' 07"	13:55	+30° 50' 24"	19:10	254° 56' 26"	08:07	18:02	06:49	15:30
12-02-2010	08:37	104° 59' 00"	13:52	+30° 55' 39"	19:08	255° 04' 35"	08:06	18:04	07:14	16:37
13-02-2010	08:34	104° 50' 51"	13:49	+31° 00' 55"	19:05	255° 12' 45"	08:04	18:06	07:35	17:43
14-02-2010	08:30	104° 42' 41"	13:46	+31° 06' 12"	19:03	255° 20' 55"	08:02	18:07	07:53	18:50
15-02-2010	08:27	104° 34' 30"	13:43	+31° 11' 30"	19:00	255° 29' 07"	08:00	18:09	08:10	19:55
16-02-2010	08:23	104° 26' 18"	13:40	+31° 16' 48"	18:57	255° 37' 20"	07:59	18:11	08:25	21:01
17-02-2010	08:20	104° 18' 05"	13:37	+31° 22' 07"	18:55	255° 45' 34"	07:57	18:12	08:41	22:09
18-02-2010	08:16	104° 09' 51"	13:34	+31° 27' 27"	18:52	255° 53' 48"	07:55	18:14	08:59	23:17
19-02-2010	08:13	104° 01' 36"	13:31	+31° 32' 47"	18:50	256° 02' 04"	07:53	18:15	09:19	---
20-02-2010	08:10	103° 53' 21"	13:28	+31° 38' 09"	18:47	256° 10' 20"	07:51	18:17	09:44	00:28
21-02-2010	08:06	103° 45' 04"	13:25	+31° 43' 30"	18:44	256° 18' 37"	07:50	18:19	10:17	01:40
22-02-2010	08:03	103° 36' 47"	13:22	+31° 48' 52"	18:42	256° 26' 54"	07:48	18:20	10:59	02:51
23-02-2010	07:59	103° 28' 30"	13:19	+31° 54' 15"	18:39	256° 35' 12"	07:46	18:22	11:55	03:56
24-02-2010	07:56	103° 20' 12"	13:16	+31° 59' 38"	18:37	256° 43' 31"	07:44	18:24	13:04	04:52
25-02-2010	07:52	103° 11' 53"	13:13	+32° 05' 02"	18:34	256° 51' 50"	07:42	18:25	14:24	05:36
26-02-2010	07:49	103° 03' 34"	13:10	+32° 10' 26"	18:31	257° 00' 10"	07:40	18:27	15:50	06:12
27-02-2010	07:45	102° 55' 14"	13:07	+32° 15' 50"	18:29	257° 08' 30"	07:38	18:28	17:18	06:40
28-02-2010	07:42	102° 46' 54"	13:04	+32° 21' 15"	18:26	257° 16' 51"	07:36	18:30	18:44	07:04
01-03-2010	07:38	102° 38' 33"	13:01	+32° 26' 40"	18:24	257° 25' 12"	07:34	18:32	20:09	07:25



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Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
02-03-2010	07:35	102° 30' 13"	12:58	+32° 32' 05"	18:21	257° 33' 33"	07:32	18:33	21:32	07:46
03-03-2010	07:32	102° 21' 52"	12:55	+32° 37' 31"	18:18	257° 41' 54"	07:30	18:35	22:54	08:08
04-03-2010	07:28	102° 13' 30"	12:52	+32° 42' 57"	18:16	257° 50' 16"	07:28	18:36	---	08:33
05-03-2010	07:25	102° 05' 09"	12:49	+32° 48' 23"	18:13	257° 58' 38"	07:26	18:38	00:13	09:02
06-03-2010	07:21	101° 56' 47"	12:46	+32° 53' 49"	18:11	258° 07' 00"	07:24	18:39	01:28	09:39
07-03-2010	07:18	101° 48' 26"	12:43	+32° 59' 15"	18:08	258° 15' 22"	07:22	18:41	02:34	10:23
08-03-2010	07:14	101° 40' 04"	12:40	+33° 04' 42"	18:05	258° 23' 44"	07:20	18:43	03:30	11:16
09-03-2010	07:11	101° 31' 42"	12:37	+33° 10' 08"	18:03	258° 32' 06"	07:18	18:44	04:15	12:16
10-03-2010	07:07	101° 23' 21"	12:34	+33° 15' 35"	18:00	258° 40' 27"	07:16	18:46	04:50	13:21
11-03-2010	07:04	101° 14' 59"	12:31	+33° 21' 02"	17:58	258° 48' 49"	07:14	18:47	05:18	14:27
12-03-2010	07:00	101° 06' 38"	12:28	+33° 26' 28"	17:55	258° 57' 11"	07:12	18:49	05:41	15:34
13-03-2010	06:57	100° 58' 17"	12:25	+33° 31' 55"	17:52	259° 05' 32"	07:10	18:50	06:00	16:40
14-03-2010	06:53	100° 49' 56"	12:21	+33° 37' 21"	17:50	259° 13' 53"	07:08	18:52	06:17	17:46
15-03-2010	06:50	100° 41' 36"	12:18	+33° 42' 47"	17:47	259° 22' 13"	07:06	18:53	06:33	18:52
16-03-2010	06:47	100° 33' 16"	12:15	+33° 48' 13"	17:44	259° 30' 33"	07:04	18:55	06:49	19:59
17-03-2010	06:43	100° 24' 56"	12:12	+33° 53' 39"	17:42	259° 38' 53"	07:01	18:56	07:06	21:08
18-03-2010	06:40	100° 16' 37"	12:09	+33° 59' 04"	17:39	259° 47' 12"	06:59	18:58	07:26	22:18
19-03-2010	06:36	100° 08' 19"	12:06	+34° 04' 29"	17:37	259° 55' 30"	06:57	19:00	07:50	23:30
20-03-2010	06:33	100° 00' 01"	12:03	+34° 09' 54"	17:34	260° 03' 48"	06:55	19:01	08:20	---
21-03-2010	06:29	99° 51' 44"	12:00	+34° 15' 19"	17:31	260° 12' 04"	06:53	19:03	08:59	00:41
22-03-2010	06:26	99° 43' 28"	11:57	+34° 20' 43"	17:29	260° 20' 21"	06:51	19:04	09:49	01:47
23-03-2010	06:22	99° 35' 13"	11:54	+34° 26' 06"	17:26	260° 28' 36"	06:49	19:06	10:52	02:44
24-03-2010	06:19	99° 26' 58"	11:51	+34° 31' 29"	17:23	260° 36' 50"	06:47	19:07	12:05	03:31
25-03-2010	06:15	99° 18' 45"	11:48	+34° 36' 51"	17:21	260° 45' 04"	06:45	19:09	13:25	04:09
26-03-2010	06:12	99° 10' 32"	11:45	+34° 42' 13"	17:18	260° 53' 16"	06:43	19:10	14:49	04:39
27-03-2010	06:08	99° 02' 21"	11:42	+34° 47' 34"	17:15	261° 01' 27"	06:40	19:12	16:13	05:04
28-03-2010	07:05	98° 54' 10"	12:39	+34° 52' 55"	18:13	261° 09' 38"	07:38	20:13	18:37	06:26
29-03-2010	07:01	98° 46' 01"	12:36	+34° 58' 15"	18:10	261° 17' 47"	07:36	20:15	20:00	06:47
30-03-2010	06:58	98° 37' 53"	12:33	+35° 03' 34"	18:07	261° 25' 55"	07:34	20:16	21:23	07:09
31-03-2010	06:54	98° 29' 46"	12:30	+35° 08' 53"	18:05	261° 34' 02"	07:32	20:18	22:45	07:32



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	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
01-04-2010	06:51	98° 21' 40"	12:26	+35° 14' 10"	18:02	261° 42' 07"	07:30	20:19	---	08:00
02-04-2010	06:47	98° 13' 35"	12:23	+35° 19' 27"	17:59	261° 50' 11"	07:28	20:21	00:04	08:34
03-04-2010	06:44	98° 05' 32"	12:20	+35° 24' 43"	17:57	261° 58' 14"	07:26	20:22	01:16	09:16
04-04-2010	06:40	97° 57' 30"	12:17	+35° 29' 59"	17:54	262° 06' 16"	07:24	20:24	02:18	10:07
05-04-2010	06:37	97° 49' 30"	12:14	+35° 35' 13"	17:51	262° 14' 15"	07:22	20:25	03:08	11:06
06-04-2010	06:33	97° 41' 31"	12:11	+35° 40' 27"	17:49	262° 22' 14"	07:20	20:27	03:48	12:09
07-04-2010	06:30	97° 33' 34"	12:08	+35° 45' 39"	17:46	262° 30' 11"	07:18	20:28	04:19	13:16
08-04-2010	06:26	97° 25' 38"	12:05	+35° 50' 50"	17:43	262° 38' 06"	07:16	20:30	04:44	14:22
09-04-2010	06:23	97° 17' 44"	12:02	+35° 56' 01"	17:41	262° 45' 59"	07:13	20:31	05:04	15:28
10-04-2010	06:19	97° 09' 52"	11:59	+36° 01' 10"	17:38	262° 53' 51"	07:11	20:33	05:22	16:34
11-04-2010	06:16	97° 02' 01"	11:56	+36° 06' 18"	17:35	263° 01' 41"	07:09	20:34	05:39	17:40
12-04-2010	06:12	96° 54' 12"	11:52	+36° 11' 25"	17:32	263° 09' 29"	07:07	20:35	05:55	18:47
13-04-2010	06:09	96° 46' 26"	11:49	+36° 16' 31"	17:30	263° 17' 15"	07:05	20:37	06:12	19:55
14-04-2010	06:05	96° 38' 41"	11:46	+36° 21' 35"	17:27	263° 24' 59"	07:03	20:38	06:32	21:06
15-04-2010	06:02	96° 30' 58"	11:43	+36° 26' 38"	17:24	263° 32' 41"	07:01	20:40	06:55	22:18
16-04-2010	05:58	96° 23' 18"	11:40	+36° 31' 40"	17:22	263° 40' 21"	07:00	20:41	07:23	23:30
17-04-2010	05:55	96° 15' 40"	11:37	+36° 36' 41"	17:19	263° 47' 58"	06:58	20:43	08:00	---
18-04-2010	05:51	96° 08' 03"	11:34	+36° 41' 40"	17:16	263° 55' 33"	06:56	20:44	08:47	00:39
19-04-2010	05:48	96° 00' 30"	11:31	+36° 46' 37"	17:13	264° 03' 06"	06:54	20:46	09:46	01:39
20-04-2010	05:44	95° 52' 58"	11:27	+36° 51' 33"	17:11	264° 10' 37"	06:52	20:47	10:56	02:29
21-04-2010	05:41	95° 45' 29"	11:24	+36° 56' 27"	17:08	264° 18' 05"	06:50	20:49	12:13	03:09
22-04-2010	05:37	95° 38' 02"	11:21	+37° 01' 20"	17:05	264° 25' 31"	06:48	20:50	13:33	03:41
23-04-2010	05:34	95° 30' 38"	11:18	+37° 06' 11"	17:02	264° 32' 54"	06:46	20:52	14:54	04:06
24-04-2010	05:30	95° 23' 16"	11:15	+37° 11' 01"	16:59	264° 40' 15"	06:44	20:53	16:15	04:29
25-04-2010	05:27	95° 15' 57"	11:12	+37° 15' 49"	16:57	264° 47' 33"	06:42	20:55	17:36	04:50
26-04-2010	05:23	95° 08' 41"	11:08	+37° 20' 35"	16:54	264° 54' 48"	06:41	20:56	18:57	05:10
27-04-2010	05:20	95° 01' 27"	11:05	+37° 25' 19"	16:51	265° 02' 01"	06:39	20:58	20:18	05:33
28-04-2010	05:16	94° 54' 16"	11:02	+37° 30' 02"	16:48	265° 09' 10"	06:37	20:59	21:38	05:58
29-04-2010	05:13	94° 47' 08"	10:59	+37° 34' 43"	16:45	265° 16' 17"	06:35	21:01	22:53	06:29
30-04-2010	05:09	94° 40' 03"	10:56	+37° 39' 22"	16:43	265° 23' 22"	06:34	21:02	---	07:08



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	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
01-05-2010	05:06	94° 33' 00"	10:53	+37° 43' 59"	16:40	265° 30' 23"	06:32	21:04	00:01	07:56
02-05-2010	05:02	94° 26' 01"	10:49	+37° 48' 34"	16:37	265° 37' 21"	06:30	21:05	00:58	08:52
03-05-2010	04:58	94° 19' 04"	10:46	+37° 53' 07"	16:34	265° 44' 16"	06:29	21:06	01:43	09:55
04-05-2010	04:55	94° 12' 11"	10:43	+37° 57' 39"	16:31	265° 51' 09"	06:27	21:08	02:18	11:02
05-05-2010	04:51	94° 05' 20"	10:40	+38° 02' 08"	16:28	265° 57' 58"	06:25	21:09	02:45	12:09
06-05-2010	04:48	93° 58' 33"	10:37	+38° 06' 35"	16:25	266° 04' 43"	06:24	21:11	03:07	13:15
07-05-2010	04:44	93° 51' 49"	10:33	+38° 11' 00"	16:23	266° 11' 26"	06:22	21:12	03:26	14:21
08-05-2010	04:41	93° 45' 09"	10:30	+38° 15' 23"	16:20	266° 18' 05"	06:21	21:14	03:43	15:26
09-05-2010	04:37	93° 38' 32"	10:27	+38° 19' 43"	16:17	266° 24' 41"	06:19	21:15	04:00	16:32
10-05-2010	04:34	93° 31' 58"	10:24	+38° 24' 02"	16:14	266° 31' 13"	06:18	21:16	04:17	17:40
11-05-2010	04:30	93° 25' 28"	10:20	+38° 28' 18"	16:11	266° 37' 41"	06:16	21:18	04:35	18:50
12-05-2010	04:26	93° 19' 01"	10:17	+38° 32' 31"	16:08	266° 44' 07"	06:15	21:19	04:57	20:02
13-05-2010	04:23	93° 12' 38"	10:14	+38° 36' 42"	16:05	266° 50' 28"	06:13	21:21	05:23	21:15
14-05-2010	04:19	93° 06' 19"	10:10	+38° 40' 51"	16:02	266° 56' 45"	06:12	21:22	05:57	22:26
15-05-2010	04:16	93° 00' 03"	10:07	+38° 44' 57"	15:59	267° 02' 59"	06:11	21:23	06:42	23:31
16-05-2010	04:12	92° 53' 52"	10:04	+38° 49' 01"	15:56	267° 09' 09"	06:09	21:25	07:38	---
17-05-2010	04:08	92° 47' 44"	10:01	+38° 53' 02"	15:53	267° 15' 15"	06:08	21:26	08:46	00:25
18-05-2010	04:05	92° 41' 40"	09:57	+38° 57' 01"	15:50	267° 21' 17"	06:07	21:27	10:03	01:09
19-05-2010	04:01	92° 35' 40"	09:54	+39° 00' 57"	15:47	267° 27' 15"	06:06	21:28	11:23	01:43
20-05-2010	03:58	92° 29' 45"	09:51	+39° 04' 50"	15:44	267° 33' 09"	06:04	21:30	12:43	02:10
21-05-2010	03:54	92° 23' 53"	09:47	+39° 08' 41"	15:41	267° 38' 58"	06:03	21:31	14:03	02:34
22-05-2010	03:51	92° 18' 06"	09:44	+39° 12' 29"	15:38	267° 44' 44"	06:02	21:32	15:22	02:54
23-05-2010	03:47	92° 12' 23"	09:41	+39° 16' 14"	15:35	267° 50' 25"	06:01	21:33	16:40	03:15
24-05-2010	03:43	92° 06' 44"	09:37	+39° 19' 56"	15:32	267° 56' 02"	06:00	21:35	17:59	03:36
25-05-2010	03:40	92° 01' 09"	09:34	+39° 23' 35"	15:29	268° 01' 35"	05:59	21:36	19:18	03:59
26-05-2010	03:36	91° 55' 39"	09:31	+39° 27' 12"	15:26	268° 07' 03"	05:58	21:37	20:34	04:28
27-05-2010	03:32	91° 50' 13"	09:27	+39° 30' 45"	15:23	268° 12' 27"	05:57	21:38	21:44	05:02
28-05-2010	03:29	91° 44' 52"	09:24	+39° 34' 16"	15:20	268° 17' 46"	05:56	21:39	22:46	05:46
29-05-2010	03:25	91° 39' 35"	09:21	+39° 37' 44"	15:17	268° 23' 00"	05:56	21:40	23:36	06:39
30-05-2010	03:22	91° 34' 23"	09:17	+39° 41' 08"	15:14	268° 28' 10"	05:55	21:41	---	07:40



Lever/Coucher

Date/position

Date: 01-01-2010
 Période : 365 jours
 Lat : 48°51'59"N
 Lon : 2°20' 0"E

Objet

Planète:
 Jupiter

Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
31-05-2010	03:18	91° 29' 15"	09:14	+39° 44' 30"	15:10	268° 33' 16"	05:54	21:42	00:15	08:46
01-06-2010	03:14	91° 24' 12"	09:11	+39° 47' 48"	15:07	268° 38' 16"	05:53	21:43	00:45	09:54
02-06-2010	03:11	91° 19' 14"	09:07	+39° 51' 04"	15:04	268° 43' 12"	05:53	21:44	01:10	11:01
03-06-2010	03:07	91° 14' 21"	09:04	+39° 54' 16"	15:01	268° 48' 03"	05:52	21:45	01:30	12:07
04-06-2010	03:03	91° 09' 33"	09:00	+39° 57' 24"	14:58	268° 52' 48"	05:51	21:46	01:48	13:12
05-06-2010	03:00	91° 04' 50"	08:57	+40° 00' 30"	14:55	268° 57' 29"	05:51	21:47	02:04	14:17
06-06-2010	02:56	91° 00' 12"	08:54	+40° 03' 32"	14:51	269° 02' 05"	05:50	21:48	02:21	15:23
07-06-2010	02:52	90° 55' 39"	08:50	+40° 06' 31"	14:48	269° 06' 35"	05:50	21:48	02:38	16:31
08-06-2010	02:49	90° 51' 11"	08:47	+40° 09' 26"	14:45	269° 11' 01"	05:50	21:49	02:58	17:42
09-06-2010	02:45	90° 46' 48"	08:43	+40° 12' 18"	14:42	269° 15' 21"	05:49	21:50	03:22	18:54
10-06-2010	02:41	90° 42' 31"	08:40	+40° 15' 07"	14:39	269° 19' 35"	05:49	21:51	03:53	20:07
11-06-2010	02:38	90° 38' 19"	08:36	+40° 17' 51"	14:35	269° 23' 45"	05:49	21:51	04:33	21:16
12-06-2010	02:34	90° 34' 13"	08:33	+40° 20' 33"	14:32	269° 27' 48"	05:48	21:52	05:25	22:16
13-06-2010	02:30	90° 30' 12"	08:29	+40° 23' 10"	14:29	269° 31' 46"	05:48	21:52	06:30	23:05
14-06-2010	02:27	90° 26' 17"	08:26	+40° 25' 44"	14:25	269° 35' 39"	05:48	21:53	07:46	23:43
15-06-2010	02:23	90° 22' 27"	08:22	+40° 28' 14"	14:22	269° 39' 26"	05:48	21:53	09:07	---
16-06-2010	02:19	90° 18' 43"	08:19	+40° 30' 41"	14:19	269° 43' 07"	05:48	21:54	10:30	00:14
17-06-2010	02:16	90° 15' 05"	08:15	+40° 33' 03"	14:15	269° 46' 42"	05:48	21:54	11:51	00:38
18-06-2010	02:12	90° 11' 32"	08:12	+40° 35' 22"	14:12	269° 50' 12"	05:48	21:55	13:11	01:00
19-06-2010	02:08	90° 08' 06"	08:08	+40° 37' 37"	14:09	269° 53' 36"	05:48	21:55	14:30	01:20
20-06-2010	02:04	90° 04' 08"	08:05	+40° 39' 48"	14:05	269° 56' 54"	05:48	21:55	15:48	01:41
21-06-2010	02:01	90° 00' 54"	08:01	+40° 41' 55"	14:02	270° 00' 06"	05:48	21:55	17:05	02:04
22-06-2010	01:57	89° 57' 46"	07:58	+40° 43' 59"	13:58	270° 03' 12"	05:49	21:56	18:21	02:30
23-06-2010	01:53	89° 54' 44"	07:54	+40° 45' 58"	13:55	270° 06' 11"	05:49	21:56	19:32	03:01
24-06-2010	01:50	89° 51' 47"	07:50	+40° 47' 53"	13:52	270° 09' 05"	05:49	21:56	20:36	03:41
25-06-2010	01:46	89° 48' 58"	07:47	+40° 49' 45"	13:48	270° 11' 53"	05:50	21:56	21:30	04:30
26-06-2010	01:42	89° 46' 14"	07:43	+40° 51' 32"	13:45	270° 14' 34"	05:50	21:56	22:12	05:28
27-06-2010	01:38	89° 43' 36"	07:40	+40° 53' 15"	13:41	270° 17' 10"	05:50	21:56	22:46	06:32
28-06-2010	01:35	89° 41' 05"	07:36	+40° 54' 54"	13:38	270° 19' 39"	05:51	21:56	23:13	07:39
29-06-2010	01:31	89° 38' 40"	07:32	+40° 56' 29"	13:34	270° 22' 01"	05:51	21:56	23:34	08:47



Lever/Coucher

Date/position

Date: 01-01-2010
 Période : 365 jours
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 Lon : 2°20' 0"E

Objet

Planète:
 Jupiter

Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
30-06-2010	01:27	89° 36' 21"	07:29	+40° 58' 00"	13:31	270° 24' 18"	05:52	21:55	23:53	09:54
01-07-2010	01:23	89° 34' 09"	07:25	+40° 59' 26"	13:27	270° 26' 28"	05:53	21:55	---	10:59
02-07-2010	01:19	89° 32' 04"	07:21	+41° 00' 48"	13:23	270° 28' 31"	05:53	21:55	00:10	12:04
03-07-2010	01:16	89° 30' 04"	07:18	+41° 02' 06"	13:20	270° 30' 28"	05:54	21:55	00:26	13:09
04-07-2010	01:12	89° 28' 12"	07:14	+41° 03' 20"	13:16	270° 32' 18"	05:55	21:54	00:43	14:15
05-07-2010	01:08	89° 26' 26"	07:10	+41° 04' 29"	13:13	270° 34' 01"	05:55	21:54	01:01	15:23
06-07-2010	01:04	89° 24' 47"	07:07	+41° 05' 34"	13:09	270° 35' 38"	05:56	21:53	01:23	16:34
07-07-2010	01:00	89° 23' 14"	07:03	+41° 06' 34"	13:05	270° 37' 08"	05:57	21:53	01:49	17:45
08-07-2010	00:57	89° 21' 48"	06:59	+41° 07' 30"	13:02	270° 38' 32"	05:58	21:52	02:24	18:56
09-07-2010	00:53	89° 20' 29"	06:55	+41° 08' 22"	12:58	270° 39' 48"	05:59	21:52	03:10	20:00
10-07-2010	00:49	89° 19' 17"	06:52	+41° 09' 09"	12:54	270° 41' 35"	06:00	21:51	04:08	20:55
11-07-2010	00:45	89° 18' 12"	06:48	+41° 09' 51"	12:51	270° 42' 35"	06:00	21:50	05:20	21:38
12-07-2010	00:41	89° 17' 14"	06:44	+41° 10' 29"	12:47	270° 43' 27"	06:01	21:50	06:42	22:13
13-07-2010	00:38	89° 16' 22"	06:40	+41° 11' 02"	12:43	270° 44' 13"	06:02	21:49	08:07	22:41
14-07-2010	00:34	89° 15' 38"	06:36	+41° 11' 31"	12:39	270° 44' 52"	06:03	21:48	09:32	23:04
15-07-2010	00:30	89° 15' 00"	06:33	+41° 11' 55"	12:35	270° 45' 24"	06:04	21:47	10:55	23:26
16-07-2010	00:26	89° 14' 30"	06:29	+41° 12' 14"	12:32	270° 45' 49"	06:06	21:46	12:16	23:47
17-07-2010	00:22	89° 14' 06"	06:25	+41° 12' 29"	12:28	270° 46' 07"	06:07	21:45	13:36	---
18-07-2010	00:18	89° 13' 50"	06:21	+41° 12' 40"	12:24	270° 46' 18"	06:08	21:44	14:54	00:09
19-07-2010	00:14	89° 13' 40"	06:17	+41° 12' 45"	12:20	270° 46' 22"	06:09	21:43	16:11	00:34
20-07-2010	00:11	89° 13' 38"	06:13	+41° 12' 47"	12:16	270° 46' 19"	06:10	21:42	17:24	01:04
21-07-2010	00:07	89° 13' 42"	06:09	+41° 12' 43"	12:12	270° 46' 09"	06:11	21:41	18:29	01:40
22-07-2010	00:03	89° 13' 54"	06:06	+41° 12' 35"	12:08	270° 45' 52"	06:12	21:40	19:26	02:26
23-07-2010	23:59(-1 jour)	89° 14' 12"	06:02	+41° 12' 22"	12:04	270° 45' 28"	06:14	21:39	20:12	03:20
24-07-2010	23:55(-1 jour)	89° 14' 38"	05:58	+41° 12' 05"	12:01	270° 44' 57"	06:15	21:38	20:48	04:22
25-07-2010	23:51(-1 jour)	89° 15' 10"	05:54	+41° 11' 43"	11:57	270° 44' 19"	06:16	21:37	21:16	05:28
26-07-2010	23:47(-1 jour)	89° 15' 50"	05:50	+41° 11' 17"	11:53	270° 43' 34"	06:17	21:35	21:39	06:35
27-07-2010	23:43(-1 jour)	89° 16' 36"	05:46	+41° 10' 46"	11:49	270° 42' 42"	06:18	21:34	21:59	07:42
28-07-2010	23:39(-1 jour)	89° 17' 30"	05:42	+41° 10' 10"	11:45	270° 41' 44"	06:20	21:33	22:16	08:48
29-07-2010	23:35(-1 jour)	89° 18' 30"	05:38	+41° 09' 30"	11:40	270° 40' 38"	06:21	21:31	22:33	09:53



Lever/Coucher

Date/position

Date: 01-01-2010
Période : 365 jours
Lat : 48°51'59"N
Lon : 2°20' 0"E

Objet

Planète:
Jupiter

Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
30-07-2010	23:31(-1 jour)	89° 19' 37"	05:34	+41° 08' 45"	11:36	270° 39' 25"	06:22	21:30	22:49	10:58
31-07-2010	23:28(-1 jour)	89° 20' 52"	05:30	+41° 07' 56"	11:32	270° 38' 05"	06:24	21:29	23:07	12:03
01-08-2010	23:24(-1 jour)	89° 22' 13"	05:26	+41° 07' 02"	11:28	270° 36' 38"	06:25	21:27	23:26	13:09
02-08-2010	23:20(-1 jour)	89° 23' 41"	05:22	+41° 06' 03"	11:24	270° 35' 04"	06:26	21:26	23:50	14:17
03-08-2010	23:16(-1 jour)	89° 25' 16"	05:18	+41° 05' 00"	11:20	270° 33' 24"	06:28	21:24	---	15:27
04-08-2010	23:12(-1 jour)	89° 26' 58"	05:14	+41° 03' 53"	11:16	270° 31' 37"	06:29	21:23	00:20	16:36
05-08-2010	23:08(-1 jour)	89° 28' 47"	05:10	+41° 02' 41"	11:12	270° 30' 23"	06:30	21:21	01:00	17:42
06-08-2010	23:04(-1 jour)	89° 30' 43"	05:06	+41° 01' 24"	11:08	270° 28' 25"	06:32	21:19	01:51	18:40
07-08-2010	23:00(-1 jour)	89° 32' 45"	05:02	+41° 00' 03"	11:03	270° 26' 20"	06:33	21:18	02:55	19:29
08-08-2010	22:56(-1 jour)	89° 34' 54"	04:57	+40° 58' 38"	10:59	270° 24' 09"	06:34	21:16	04:11	20:08
09-08-2010	22:52(-1 jour)	89° 37' 10"	04:53	+40° 57' 08"	10:55	270° 21' 51"	06:36	21:15	05:35	20:39
10-08-2010	22:48(-1 jour)	89° 39' 32"	04:49	+40° 55' 34"	10:51	270° 19' 26"	06:37	21:13	07:01	21:05
11-08-2010	22:44(-1 jour)	89° 42' 01"	04:45	+40° 53' 56"	10:46	270° 16' 55"	06:39	21:11	08:27	21:28
12-08-2010	22:40(-1 jour)	89° 44' 36"	04:41	+40° 52' 14"	10:42	270° 14' 18"	06:40	21:09	09:52	21:50
13-08-2010	22:36(-1 jour)	89° 47' 17"	04:37	+40° 50' 28"	10:38	270° 11' 35"	06:41	21:08	11:16	22:13
14-08-2010	22:32(-1 jour)	89° 50' 04"	04:33	+40° 48' 37"	10:33	270° 08' 45"	06:43	21:06	12:37	22:38
15-08-2010	22:28(-1 jour)	89° 52' 58"	04:28	+40° 46' 42"	10:29	270° 05' 50"	06:44	21:04	13:57	23:06
16-08-2010	22:24(-1 jour)	89° 55' 58"	04:24	+40° 44' 44"	10:25	270° 02' 48"	06:46	21:02	15:13	23:41
17-08-2010	22:20(-1 jour)	89° 59' 03"	04:20	+40° 42' 42"	10:20	269° 59' 41"	06:47	21:01	16:22	---
18-08-2010	22:15(-1 jour)	90° 02' 14"	04:16	+40° 40' 36"	10:16	269° 56' 28"	06:48	20:59	17:21	00:24
19-08-2010	22:11(-1 jour)	90° 05' 31"	04:12	+40° 38' 26"	10:12	269° 53' 09"	06:50	20:57	18:10	01:16
20-08-2010	22:07(-1 jour)	90° 08' 53"	04:07	+40° 36' 13"	10:07	269° 49' 45"	06:51	20:55	18:49	02:15
21-08-2010	22:03(-1 jour)	90° 12' 21"	04:03	+40° 33' 56"	10:03	269° 46' 16"	06:53	20:53	19:20	03:19
22-08-2010	21:59(-1 jour)	90° 15' 54"	03:59	+40° 31' 35"	09:58	269° 42' 41"	06:54	20:51	19:45	04:26
23-08-2010	21:55(-1 jour)	90° 19' 32"	03:55	+40° 29' 12"	09:54	269° 39' 02"	06:56	20:49	20:05	05:33
24-08-2010	21:51(-1 jour)	90° 23' 15"	03:50	+40° 26' 45"	09:49	269° 35' 17"	06:57	20:47	20:23	06:39
25-08-2010	21:47(-1 jour)	90° 27' 03"	03:46	+40° 24' 14"	09:45	269° 31' 27"	06:58	20:45	20:40	07:44
26-08-2010	21:43(-1 jour)	90° 30' 56"	03:42	+40° 21' 41"	09:41	269° 27' 33"	07:00	20:43	20:57	08:49
27-08-2010	21:39(-1 jour)	90° 34' 53"	03:38	+40° 19' 05"	09:36	269° 23' 34"	07:01	20:41	21:14	09:53
28-08-2010	21:35(-1 jour)	90° 38' 55"	03:33	+40° 16' 25"	09:32	269° 19' 31"	07:03	20:39	21:33	10:59



Lever/Coucher

Date/position

Date: 01-01-2010
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Objet

Planète:
 Jupiter

Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
29-08-2010	21:31(-1 jour)	90° 43' 02"	03:29	+40° 13' 43"	09:27	269° 15' 23"	07:04	20:37	21:55	12:06
30-08-2010	21:26(-1 jour)	90° 47' 12"	03:25	+40° 10' 58"	09:22	269° 11' 12"	07:05	20:35	22:22	13:14
31-08-2010	21:22(-1 jour)	90° 51' 27"	03:20	+40° 08' 11"	09:18	269° 06' 56"	07:07	20:33	22:57	14:22
01-09-2010	21:18(-1 jour)	90° 55' 45"	03:16	+40° 05' 21"	09:13	269° 02' 37"	07:08	20:31	23:42	15:28
02-09-2010	21:14(-1 jour)	91° 00' 07"	03:12	+40° 02' 28"	09:09	268° 58' 13"	07:10	20:29	---	16:28
03-09-2010	21:10(-1 jour)	91° 04' 33"	03:07	+39° 59' 33"	09:04	268° 53' 47"	07:11	20:27	00:38	17:19
04-09-2010	21:06(-1 jour)	91° 09' 02"	03:03	+39° 56' 36"	09:00	268° 49' 17"	07:12	20:25	01:47	18:01
05-09-2010	21:02(-1 jour)	91° 13' 34"	02:59	+39° 53' 37"	08:55	268° 44' 44"	07:14	20:23	03:05	18:35
06-09-2010	20:58(-1 jour)	91° 18' 09"	02:54	+39° 50' 36"	08:50	268° 40' 09"	07:15	20:21	04:28	19:04
07-09-2010	20:53(-1 jour)	91° 22' 47"	02:50	+39° 47' 34"	08:46	268° 35' 30"	07:17	20:19	05:54	19:28
08-09-2010	20:49(-1 jour)	91° 27' 27"	02:45	+39° 44' 29"	08:41	268° 30' 49"	07:18	20:17	07:20	19:51
09-09-2010	20:45(-1 jour)	91° 32' 10"	02:41	+39° 41' 23"	08:37	268° 26' 06"	07:20	20:15	08:45	20:14
10-09-2010	20:41(-1 jour)	91° 36' 54"	02:37	+39° 38' 16"	08:32	268° 21' 21"	07:21	20:12	10:10	20:39
11-09-2010	20:37(-1 jour)	91° 41' 41"	02:32	+39° 35' 08"	08:27	268° 16' 34"	07:22	20:10	11:33	21:07
12-09-2010	20:33(-1 jour)	91° 45' 51"	02:28	+39° 31' 58"	08:23	268° 11' 46"	07:24	20:08	12:54	21:40
13-09-2010	20:28(-1 jour)	91° 50' 40"	02:23	+39° 28' 48"	08:18	268° 06' 56"	07:25	20:06	14:08	22:21
14-09-2010	20:24(-1 jour)	91° 55' 31"	02:19	+39° 25' 37"	08:13	268° 02' 06"	07:27	20:04	15:13	23:11
15-09-2010	20:20(-1 jour)	92° 00' 22"	02:15	+39° 22' 25"	08:09	267° 57' 14"	07:28	20:02	16:06	---
16-09-2010	20:16(-1 jour)	92° 05' 14"	02:10	+39° 19' 13"	08:04	267° 52' 21"	07:29	20:00	16:49	00:09
17-09-2010	20:12(-1 jour)	92° 10' 07"	02:06	+39° 16' 00"	07:59	267° 47' 29"	07:31	19:58	17:22	01:12
18-09-2010	20:08(-1 jour)	92° 15' 00"	02:01	+39° 12' 47"	07:55	267° 42' 35"	07:32	19:55	17:49	02:18
19-09-2010	20:03(-1 jour)	92° 19' 53"	01:57	+39° 09' 35"	07:50	267° 37' 42"	07:34	19:53	18:11	03:24
20-09-2010	19:59(-1 jour)	92° 24' 47"	01:53	+39° 06' 22"	07:45	267° 32' 49"	07:35	19:51	18:30	04:30
21-09-2010	19:55(-1 jour)	92° 29' 39"	01:48	+39° 03' 09"	07:41	267° 27' 57"	07:37	19:49	18:47	05:35
22-09-2010	19:51(-1 jour)	92° 34' 32"	01:44	+38° 59' 57"	07:36	267° 23' 05"	07:38	19:47	19:04	06:40
23-09-2010	19:47(-1 jour)	92° 39' 23"	01:39	+38° 56' 46"	07:31	267° 18' 14"	07:39	19:45	19:21	07:45
24-09-2010	19:43(-1 jour)	92° 44' 14"	01:35	+38° 53' 35"	07:27	267° 13' 24"	07:41	19:43	19:40	08:50
25-09-2010	19:38(-1 jour)	92° 49' 04"	01:30	+38° 50' 25"	07:22	267° 08' 35"	07:42	19:41	20:01	09:57
26-09-2010	19:34(-1 jour)	92° 53' 52"	01:26	+38° 47' 15"	07:17	267° 03' 47"	07:44	19:38	20:27	11:05
27-09-2010	19:30(-1 jour)	92° 58' 39"	01:22	+38° 44' 07"	07:13	266° 59' 02"	07:45	19:36	20:59	12:13



Lever/Coucher

Date/position

Date: 01-01-2010
 Période : 365 jours
 Lat : 48°51'59"N
 Lon : 2°20' 0"E

Objet

Planète:
 Jupiter

Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
28-09-2010	19:26(-1 jour)	93° 03' 24"	01:17	+38° 41' 00"	07:08	266° 54' 18"	07:47	19:34	21:40	13:19
29-09-2010	19:22(-1 jour)	93° 08' 07"	01:13	+38° 37' 55"	07:04	266° 49' 36"	07:48	19:32	22:31	14:19
30-09-2010	19:18(-1 jour)	93° 12' 47"	01:08	+38° 34' 50"	06:59	266° 44' 57"	07:50	19:30	23:34	15:12
01-10-2010	19:13(-1 jour)	93° 17' 26"	01:04	+38° 31' 48"	06:54	266° 40' 20"	07:51	19:28	---	15:57
02-10-2010	19:09(-1 jour)	93° 22' 01"	01:00	+38° 28' 47"	06:50	266° 35' 45"	07:52	19:26	00:46	16:33
03-10-2010	19:05(-1 jour)	93° 26' 34"	00:55	+38° 25' 48"	06:45	266° 31' 14"	07:54	19:24	02:04	17:02
04-10-2010	19:01(-1 jour)	93° 31' 04"	00:51	+38° 22' 51"	06:40	266° 26' 46"	07:55	19:22	03:26	17:28
05-10-2010	18:57(-1 jour)	93° 35' 31"	00:46	+38° 19' 57"	06:36	266° 22' 21"	07:57	19:20	04:49	17:51
06-10-2010	18:53(-1 jour)	93° 39' 54"	00:42	+38° 17' 04"	06:31	266° 18' 00"	07:58	19:17	06:13	18:14
07-10-2010	18:48(-1 jour)	93° 44' 13"	00:38	+38° 14' 14"	06:27	266° 13' 42"	08:00	19:15	07:37	18:37
08-10-2010	18:44(-1 jour)	93° 48' 29"	00:33	+38° 11' 27"	06:22	266° 09' 29"	08:01	19:13	09:02	19:04
09-10-2010	18:40(-1 jour)	93° 52' 40"	00:29	+38° 08' 43"	06:17	266° 05' 19"	08:03	19:11	10:25	19:36
10-10-2010	18:36(-1 jour)	93° 56' 47"	00:25	+38° 06' 01"	06:13	266° 01' 14"	08:04	19:09	11:45	20:15
11-10-2010	18:32(-1 jour)	94° 00' 50"	00:20	+38° 03' 22"	06:08	265° 57' 14"	08:06	19:07	12:56	21:02
12-10-2010	18:28(-1 jour)	94° 05' 26"	00:16	+38° 00' 47"	06:04	265° 53' 18"	08:07	19:05	13:56	21:58
13-10-2010	18:23(-1 jour)	94° 09' 18"	00:11	+37° 58' 14"	05:59	265° 49' 27"	08:09	19:03	14:44	23:01
14-10-2010	18:19(-1 jour)	94° 13' 06"	00:07	+37° 55' 45"	05:55	265° 45' 42"	08:10	19:01	15:22	---
15-10-2010	18:15(-1 jour)	94° 16' 49"	00:03	+37° 53' 19"	05:50	265° 42' 01"	08:12	18:59	15:51	00:07
15-10-2010	18:11	94° 20' 26"	23:58	+37° 50' 57"	05:46(+1 jour)	265° 38' 26"	08:12	18:59	15:51	00:07
16-10-2010	18:07	94° 23' 58"	23:54	+37° 48' 38"	05:41(+1 jour)	265° 34' 56"	08:13	18:57	16:15	01:14
17-10-2010	18:03	94° 27' 24"	23:50	+37° 46' 23"	05:37(+1 jour)	265° 31' 32"	08:15	18:55	16:35	02:20
18-10-2010	17:59	94° 30' 44"	23:46	+37° 44' 12"	05:32(+1 jour)	265° 28' 14"	08:16	18:53	16:53	03:26
19-10-2010	17:54	94° 33' 59"	23:41	+37° 42' 05"	05:28(+1 jour)	265° 25' 02"	08:18	18:52	17:10	04:30
20-10-2010	17:50	94° 37' 07"	23:37	+37° 40' 01"	05:23(+1 jour)	265° 21' 55"	08:20	18:50	17:27	05:35
21-10-2010	17:46	94° 40' 10"	23:33	+37° 38' 02"	05:19(+1 jour)	265° 18' 55"	08:21	18:48	17:46	06:40
22-10-2010	17:42	94° 43' 06"	23:28	+37° 36' 07"	05:15(+1 jour)	265° 16' 01"	08:23	18:46	18:07	07:47
23-10-2010	17:38	94° 45' 56"	23:24	+37° 34' 15"	05:10(+1 jour)	265° 13' 13"	08:24	18:44	18:31	08:55
24-10-2010	17:34	94° 48' 40"	23:20	+37° 32' 29"	05:06(+1 jour)	265° 10' 32"	08:26	18:42	19:02	10:03
25-10-2010	17:30	94° 51' 17"	23:16	+37° 30' 46"	05:01(+1 jour)	265° 07' 57"	08:27	18:40	19:40	11:10
26-10-2010	17:26	94° 53' 48"	23:11	+37° 29' 07"	04:57(+1 jour)	265° 05' 29"	08:29	18:39	20:29	12:13



Lever/Coucher

Date/position

Date: 01-01-2010
Période : 365 jours
Lat : 48°51'59"N
Lon : 2°20' 0"E

Objet

Planète:
Jupiter

Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
27-10-2010	17:22	94° 56' 12"	23:07	+37° 27' 33"	04:53(+1 jour)	265° 03' 07"	08:31	18:37	21:28	13:08
28-10-2010	17:18	94° 58' 29"	23:03	+37° 26' 04"	04:48(+1 jour)	265° 00' 53"	08:32	18:35	22:36	13:55
29-10-2010	17:13	95° 00' 39"	22:59	+37° 24' 39"	04:44(+1 jour)	264° 58' 45"	08:34	18:33	23:51	14:33
30-10-2010	17:09	95° 02' 42"	22:55	+37° 23' 19"	04:40(+1 jour)	264° 56' 44"	08:35	18:32	---	15:03
31-10-2010	16:05	95° 04' 38"	21:51	+37° 22' 03"	03:36(+1 jour)	264° 54' 50"	07:37	17:30	01:09	14:29
01-11-2010	16:01	95° 06' 27"	21:46	+37° 20' 52"	03:31(+1 jour)	264° 53' 04"	07:39	17:28	01:28	14:53
02-11-2010	15:57	95° 08' 09"	21:42	+37° 19' 45"	03:27(+1 jour)	264° 51' 24"	07:40	17:27	02:49	15:15
03-11-2010	15:53	95° 09' 44"	21:38	+37° 18' 44"	03:23(+1 jour)	264° 49' 52"	07:42	17:25	04:10	15:37
04-11-2010	15:49	95° 11' 11"	21:34	+37° 17' 47"	03:19(+1 jour)	264° 48' 28"	07:43	17:24	05:32	16:02
05-11-2010	15:45	95° 12' 31"	21:30	+37° 16' 55"	03:15(+1 jour)	264° 47' 10"	07:45	17:22	06:55	16:31
06-11-2010	15:41	95° 13' 44"	21:26	+37° 16' 08"	03:10(+1 jour)	264° 45' 25"	07:47	17:20	08:16	17:06
07-11-2010	15:37	95° 14' 49"	21:22	+37° 15' 26"	03:06(+1 jour)	264° 44' 26"	07:48	17:19	09:32	17:50
08-11-2010	15:33	95° 15' 46"	21:18	+37° 14' 48"	03:02(+1 jour)	264° 43' 34"	07:50	17:18	10:39	18:43
09-11-2010	15:29	95° 16' 36"	21:14	+37° 14' 16"	02:58(+1 jour)	264° 42' 50"	07:51	17:16	11:34	19:45
10-11-2010	15:25	95° 17' 18"	21:10	+37° 13' 49"	02:54(+1 jour)	264° 42' 14"	07:53	17:15	12:17	20:51
11-11-2010	15:21	95° 17' 53"	21:06	+37° 13' 27"	02:50(+1 jour)	264° 41' 45"	07:54	17:13	12:50	22:00
12-11-2010	15:17	95° 18' 20"	21:01	+37° 13' 09"	02:46(+1 jour)	264° 41' 24"	07:56	17:12	13:16	23:07
13-11-2010	15:13	95° 18' 40"	20:57	+37° 12' 57"	02:42(+1 jour)	264° 41' 10"	07:58	17:11	13:38	---
14-11-2010	15:09	95° 18' 52"	20:53	+37° 12' 49"	02:38(+1 jour)	264° 41' 04"	07:59	17:09	13:57	00:13
15-11-2010	15:05	95° 18' 56"	20:49	+37° 12' 47"	02:34(+1 jour)	264° 41' 06"	08:01	17:08	14:15	01:18
16-11-2010	15:01	95° 18' 53"	20:46	+37° 12' 50"	02:30(+1 jour)	264° 41' 15"	08:02	17:07	14:32	02:22
17-11-2010	14:57	95° 18' 42"	20:42	+37° 12' 57"	02:26(+1 jour)	264° 41' 31"	08:04	17:06	14:50	03:27
18-11-2010	14:53	95° 18' 24"	20:38	+37° 13' 10"	02:22(+1 jour)	264° 41' 55"	08:05	17:05	15:10	04:33
19-11-2010	14:49	95° 17' 58"	20:34	+37° 13' 27"	02:18(+1 jour)	264° 42' 27"	08:07	17:04	15:33	05:40
20-11-2010	14:45	95° 17' 25"	20:30	+37° 13' 49"	02:14(+1 jour)	264° 43' 06"	08:08	17:03	16:02	06:49
21-11-2010	14:41	95° 16' 44"	20:26	+37° 14' 17"	02:11(+1 jour)	264° 43' 53"	08:10	17:02	16:38	07:58
22-11-2010	14:37	95° 15' 56"	20:22	+37° 14' 49"	02:07(+1 jour)	264° 44' 47"	08:11	17:01	17:24	09:03
23-11-2010	14:33	95° 15' 00"	20:18	+37° 15' 26"	02:03(+1 jour)	264° 45' 49"	08:13	17:00	18:21	10:03
24-11-2010	14:29	95° 13' 57"	20:14	+37° 16' 08"	01:59(+1 jour)	264° 46' 57"	08:14	16:59	19:28	10:53
25-11-2010	14:26	95° 12' 46"	20:10	+37° 16' 55"	01:55(+1 jour)	264° 48' 14"	08:16	16:58	20:42	11:33



Lever/Coucher

Date/position

Date: 01-01-2010
Période : 365 jours
Lat : 48°51'59"N
Lon : 2°20'0"E

Objet

Planète:
Jupiter

Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
26-11-2010	14:22	95° 11' 28"	20:06	+37° 17' 46"	01:51(+1 jour)	264° 49' 38"	08:17	16:57	21:59	12:06
27-11-2010	14:18	95° 10' 03"	20:03	+37° 18' 43"	01:48(+1 jour)	264° 51' 09"	08:19	16:57	23:17	12:34
28-11-2010	14:14	95° 08' 30"	19:59	+37° 19' 44"	01:44(+1 jour)	264° 52' 47"	08:20	16:56	---	12:57
29-11-2010	14:10	95° 06' 50"	19:55	+37° 20' 50"	01:40(+1 jour)	264° 53' 52"	08:21	16:55	00:36	13:19
30-11-2010	14:06	95° 05' 03"	19:51	+37° 22' 01"	01:37(+1 jour)	264° 55' 41"	08:23	16:55	01:54	13:41
01-12-2010	14:02	95° 03' 08"	19:47	+37° 23' 17"	01:33(+1 jour)	264° 57' 38"	08:24	16:54	03:13	14:04
02-12-2010	13:58	95° 01' 06"	19:44	+37° 24' 37"	01:29(+1 jour)	264° 59' 42"	08:25	16:54	04:33	14:30
03-12-2010	13:54	94° 58' 58"	19:40	+37° 26' 02"	01:26(+1 jour)	265° 01' 54"	08:26	16:53	05:53	15:01
04-12-2010	13:51	94° 56' 42"	19:36	+37° 27' 32"	01:22(+1 jour)	265° 04' 12"	08:28	16:53	07:10	15:40
05-12-2010	13:47	94° 54' 18"	19:32	+37° 29' 06"	01:18(+1 jour)	265° 06' 38"	08:29	16:52	08:20	16:29
06-12-2010	13:43	94° 51' 48"	19:29	+37° 30' 45"	01:15(+1 jour)	265° 09' 10"	08:30	16:52	09:21	17:27
07-12-2010	13:39	94° 49' 11"	19:25	+37° 32' 29"	01:11(+1 jour)	265° 11' 50"	08:31	16:52	10:09	18:32
08-12-2010	13:35	94° 46' 27"	19:21	+37° 34' 17"	01:08(+1 jour)	265° 14' 36"	08:32	16:52	10:47	19:41
09-12-2010	13:31	94° 43' 36"	19:18	+37° 36' 10"	01:04(+1 jour)	265° 17' 29"	08:33	16:51	11:17	20:50
10-12-2010	13:27	94° 40' 38"	19:14	+37° 38' 07"	01:01(+1 jour)	265° 20' 29"	08:34	16:51	11:41	21:58
11-12-2010	13:24	94° 37' 34"	19:10	+37° 40' 09"	00:57(+1 jour)	265° 23' 36"	08:35	16:51	12:01	23:04
12-12-2010	13:20	94° 34' 23"	19:07	+37° 42' 14"	00:54(+1 jour)	265° 26' 49"	08:36	16:51	12:19	---
13-12-2010	13:16	94° 31' 05"	19:03	+37° 44' 25"	00:50(+1 jour)	265° 30' 09"	08:37	16:51	12:36	00:08
14-12-2010	13:12	94° 27' 41"	18:59	+37° 46' 39"	00:47(+1 jour)	265° 33' 36"	08:38	16:51	12:54	01:13
15-12-2010	13:08	94° 24' 10"	18:56	+37° 48' 58"	00:43(+1 jour)	265° 37' 09"	08:39	16:52	13:12	02:17
16-12-2010	13:05	94° 20' 33"	18:52	+37° 51' 21"	00:40(+1 jour)	265° 40' 48"	08:40	16:52	13:34	03:23
17-12-2010	13:01	94° 16' 49"	18:48	+37° 53' 48"	00:36(+1 jour)	265° 44' 33"	08:40	16:52	14:00	04:31
18-12-2010	12:57	94° 13' 00"	18:45	+37° 56' 20"	00:33(+1 jour)	265° 48' 25"	08:41	16:52	14:33	05:40
19-12-2010	12:53	94° 09' 04"	18:41	+37° 58' 55"	00:30(+1 jour)	265° 52' 23"	08:42	16:53	15:14	06:47
20-12-2010	12:50	94° 05' 02"	18:38	+38° 01' 34"	00:26(+1 jour)	265° 56' 27"	08:42	16:53	16:07	07:50
21-12-2010	12:46	94° 00' 54"	18:34	+38° 04' 17"	00:23(+1 jour)	266° 00' 37"	08:43	16:54	17:12	08:45
22-12-2010	12:42	93° 56' 40"	18:31	+38° 07' 05"	00:20(+1 jour)	266° 04' 53"	08:43	16:54	18:25	09:31
23-12-2010	12:38	93° 52' 20"	18:27	+38° 09' 56"	00:16(+1 jour)	266° 09' 15"	08:44	16:55	19:44	10:07
24-12-2010	12:35	93° 47' 55"	18:24	+38° 12' 51"	00:13(+1 jour)	266° 13' 43"	08:44	16:55	21:05	10:37
25-12-2010	12:31	93° 43' 23"	18:20	+38° 15' 50"	00:10(+1 jour)	266° 18' 16"	08:45	16:56	22:24	11:02

REDSHIFT™ 6

Lever/Coucher

Date/position

Date: 01-01-2010
 Période : 365 jours
 Lat : 48°51'59"N
 Lon : 2°20' 0"E

Objet

Planète:
 Jupiter

Date	Lever		Transit		Coucher		Soleil		Lune	
	H.locale	Azm	H.locale	Alt	H.locale	Azm	Lever	Coucher	Lever	Coucher
26-12-2010	12:27	93° 38' 46"	18:17	+38° 18' 52"	00:06(+1 jour)	266° 22' 55"	08:45	16:57	23:44	11:25
27-12-2010	12:23	93° 34' 03"	18:13	+38° 21' 58"	00:03(+1 jour)	266° 27' 40"	08:45	16:57	---	11:46
28-12-2010	12:20	93° 29' 15"	18:10	+38° 25' 08"	00:00(+1 jour)	266° 32' 31"	08:45	16:58	01:02	12:09
29-12-2010	12:16	93° 24' 59"	18:06	+38° 28' 22"	23:57	266° 37' 26"	08:46	16:59	02:21	12:33
30-12-2010	12:12	93° 20' 00"	18:03	+38° 31' 39"	23:53	266° 42' 28"	08:46	17:00	03:39	13:02
31-12-2010	12:08	93° 14' 56"	17:59	+38° 35' 00"	23:50	266° 47' 35"	08:46	17:01	04:55	13:37