



EPHEMERIDE 2012 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
1 Jan 2012	13h47m58.10s	-08 32' 33.4"	9.692	9.956	0.7	71.7	5.5	-8.74	92.82	9.42	107.3 Vir
2 Jan 2012	13h48m12.50s	-08 33' 39.2"	9.692	9.940	0.7	72.6	5.6	-8.18	93.56	9.19	107.2 Vir
3 Jan 2012	13h48m26.57s	-08 34' 43.0"	9.693	9.924	0.7	73.6	5.6	-7.63	94.29	8.97	107.1 Vir
4 Jan 2012	13h48m40.30s	-08 35' 44.7"	9.693	9.908	0.7	74.6	5.6	-7.07	95.03	8.74	107.0 Vir
5 Jan 2012	13h48m53.69s	-08 36' 44.4"	9.693	9.892	0.7	75.5	5.6	-6.51	95.76	8.51	106.8 Vir
6 Jan 2012	13h49m06.74s	-08 37' 41.9"	9.694	9.876	0.7	76.5	5.7	-5.95	96.50	8.28	106.7 Vir
7 Jan 2012	13h49m19.44s	-08 38' 37.4"	9.694	9.860	0.7	77.4	5.7	-5.39	97.24	8.04	106.5 Vir
8 Jan 2012	13h49m31.80s	-08 39' 30.8"	9.694	9.844	0.7	78.4	5.7	-4.83	97.97	7.81	106.4 Vir
9 Jan 2012	13h49m43.80s	-08 40' 22.0"	9.694	9.827	0.7	79.4	5.7	-4.27	98.71	7.57	106.2 Vir
10 Jan 2012	13h49m55.45s	-08 41' 11.2"	9.695	9.811	0.7	80.3	5.7	-3.71	99.45	7.33	106.0 Vir
11 Jan 2012	13h50m06.74s	-08 41' 58.2"	9.695	9.795	0.7	81.3	5.8	-3.15	100.19	7.09	105.8 Vir
12 Jan 2012	13h50m17.67s	-08 42' 43.1"	9.695	9.778	0.7	82.3	5.8	-2.59	100.94	6.85	105.6 Vir
13 Jan 2012	13h50m28.24s	-08 43' 25.8"	9.696	9.762	0.7	83.3	5.8	-2.04	101.68	6.61	105.4 Vir
14 Jan 2012	13h50m38.44s	-08 44' 06.4"	9.696	9.745	0.7	84.2	5.8	-1.48	102.43	6.36	105.2 Vir
15 Jan 2012	13h50m48.27s	-08 44' 44.7"	9.696	9.729	0.7	85.2	5.8	-0.92	103.17	6.12	104.9 Vir
16 Jan 2012	13h50m57.73s	-08 45' 20.9"	9.696	9.712	0.7	86.2	5.8	-0.36	103.92	5.87	104.6 Vir
17 Jan 2012	13h51m06.82s	-08 45' 54.9"	9.697	9.695	0.6	87.2	5.8	0.20	104.67	5.62	104.3 Vir
18 Jan 2012	13h51m15.52s	-08 46' 26.7"	9.697	9.679	0.6	88.1	5.8	0.76	105.43	5.36	104.0 Vir
19 Jan 2012	13h51m23.85s	-08 46' 56.3"	9.697	9.662	0.6	89.1	5.8	1.32	106.18	5.11	103.6 Vir
20 Jan 2012	13h51m31.79s	-08 47' 23.7"	9.698	9.646	0.6	90.1	5.8	1.87	106.94	4.85	103.3 Vir
21 Jan 2012	13h51m39.34s	-08 47' 48.8"	9.698	9.629	0.6	91.1	5.8	2.43	107.71	4.60	102.8 Vir
22 Jan 2012	13h51m46.50s	-08 48' 11.7"	9.698	9.612	0.6	92.1	5.8	2.99	108.47	4.34	102.3 Vir
23 Jan 2012	13h51m53.27s	-08 48' 32.4"	9.698	9.596	0.6	93.1	5.8	3.54	109.24	4.08	101.8 Vir
24 Jan 2012	13h51m59.65s	-08 48' 50.8"	9.699	9.579	0.6	94.1	5.8	4.09	110.01	3.82	101.2 Vir
25 Jan 2012	13h52m05.64s	-08 49' 07.0"	9.699	9.563	0.6	95.1	5.8	4.64	110.79	3.56	100.5 Vir
26 Jan 2012	13h52m11.22s	-08 49' 21.0"	9.699	9.546	0.6	96.1	5.8	5.19	111.56	3.30	99.6 Vir
27 Jan 2012	13h52m16.41s	-08 49' 32.7"	9.700	9.529	0.6	97.0	5.8	5.74	112.35	3.04	98.7 Vir
28 Jan 2012	13h52m21.20s	-08 49' 42.1"	9.700	9.513	0.6	98.0	5.8	6.29	113.13	2.78	97.6 Vir
29 Jan 2012	13h52m25.59s	-08 49' 49.4"	9.700	9.497	0.6	99.0	5.8	6.83	113.92	2.52	96.2 Vir
30 Jan 2012	13h52m29.58s	-08 49' 54.4"	9.700	9.480	0.6	100.0	5.7	7.38	114.72	2.26	94.5 Vir
31 Jan 2012	13h52m33.17s	-08 49' 57.2"	9.701	9.464	0.6	101.0	5.7	7.92	115.52	2.01	92.5 Vir
1 Feb 2012	13h52m36.36s	-08 49' 57.7"	9.701	9.447	0.6	102.0	5.7	8.46	116.32	1.76	89.8 Vir
2 Feb 2012	13h52m39.15s	-08 49' 56.0"	9.701	9.431	0.6	103.0	5.7	8.99	117.13	1.51	86.2 Vir
3 Feb 2012	13h52m41.54s	-08 49' 52.1"	9.702	9.415	0.6	104.1	5.7	9.53	117.94	1.27	81.3 Vir
4 Feb 2012	13h52m43.52s	-08 49' 46.0"	9.702	9.399	0.6	105.1	5.6	10.06	118.76	1.05	74.3 Vir
5 Feb 2012	13h52m45.11s	-08 49' 37.7"	9.702	9.383	0.6	106.1	5.6	10.59	119.58	0.84	63.6 Vir
6 Feb 2012	13h52m46.29s	-08 49' 27.2"	9.702	9.367	0.6	107.1	5.6	11.12	120.41	0.69	47.3 Vir
7 Feb 2012	13h52m47.07s	-08 49' 14.5"	9.703	9.351	0.6	108.1	5.5	11.64	121.24	0.62	24.8 Vir
8 Feb 2012	13h52m47.45s	-08 48' 59.6"	9.703	9.335	0.6	109.1	5.5	12.16	122.08	0.65	0.7 Vir
9 Feb 2012	13h52m47.43s	-08 48' 42.6"	9.703	9.320	0.5	110.1	5.5	12.68	122.93	0.78	342.0 Vir
10 Feb 2012	13h52m47.02s	-08 48' 23.3"	9.704	9.304	0.5	111.1	5.4	13.19	123.78	0.96	329.5 Vir
11 Feb 2012	13h52m46.20s	-08 48' 01.9"	9.704	9.289	0.5	112.1	5.4	13.70	124.64	1.18	321.3 Vir
12 Feb 2012	13h52m44.98s	-08 47' 38.4"	9.704	9.274	0.5	113.2	5.4	14.20	125.50	1.41	315.7 Vir
13 Feb 2012	13h52m43.37s	-08 47' 12.7"	9.704	9.258	0.5	114.2	5.3	14.70	126.37	1.65	311.7 Vir
14 Feb 2012	13h52m41.35s	-08 46' 44.9"	9.705	9.243	0.5	115.2	5.3	15.20	127.25	1.90	308.7 Vir
15 Feb 2012	13h52m38.94s	-08 46' 14.9"	9.705	9.228	0.5	116.2	5.2	15.70	128.13	2.15	306.5 Vir
16 Feb 2012	13h52m36.13s	-08 45' 42.8"	9.705	9.213	0.5	117.2	5.2	16.18	129.02	2.40	304.7 Vir
17 Feb 2012	13h52m32.93s	-08 45' 08.6"	9.706	9.199	0.5	118.3	5.1	16.67	129.92	2.66	303.2 Vir
18 Feb 2012	13h52m29.33s	-08 44' 32.4"	9.706	9.184	0.5	119.3	5.1	17.15	130.82	2.91	302.0 Vir
19 Feb 2012	13h52m25.34s	-08 43' 54.0"	9.706	9.170	0.5	120.3	5.0	17.62	131.73	3.16	301.0 Vir
20 Feb 2012	13h52m20.96s	-08 43' 13.6"	9.706	9.155	0.5	121.3	5.0	18.09	132.65	3.41	300.1 Vir
21 Feb 2012	13h52m16.20s	-08 42' 31.2"	9.707	9.141	0.5	122.4	4.9	18.55	133.58	3.66	299.4 Vir
22 Feb 2012	13h52m11.04s	-08 41' 46.8"	9.707	9.127	0.5	123.4	4.9	19.01	134.51	3.91	298.7 Vir
23 Feb 2012	13h52m05.51s	-08 41' 00.4"	9.707	9.113	0.5	124.4	4.8	19.46	135.45	4.16	298.2 Vir
24 Feb 2012	13h51m59.60s	-08 40' 12.0"	9.708	9.100	0.5	125.5	4.8	19.91	136.40	4.41	297.7 Vir
25 Feb 2012	13h51m53.31s	-08 39' 21.6"	9.708	9.086	0.5	126.5	4.7	20.34	137.36	4.65	297.2 Vir
26 Feb 2012	13h51m46.66s	-08 38' 29.4"	9.708	9.073	0.5	127.5	4.6	20.78	138.33	4.89	296.8 Vir
27 Feb 2012	13h51m39.63s	-08 37' 35.3"	9.708	9.060	0.5	128.6	4.6	21.20	139.30	5.13	296.4 Vir
28 Feb 2012	13h51m32.24s	-08 36' 39.3"	9.709	9.047	0.4	129.6	4.5	21.62	140.28	5.37	296.1 Vir
29 Feb 2012	13h51m24.50s	-08 35' 41.4"	9.709	9.034	0.4	130.6	4.4	22.03	141.27	5.60	295.8 Vir
1 Mär 2012	13h51m16.39s	-08 34' 41.8"	9.709	9.022	0.4	131.7	4.4	22.44	142.27	5.83	295.5 Vir
2 Mär 2012	13h51m07.94s	-08 33' 40.4"	9.710	9.010	0.4	132.7	4.3	22.83	143.27	6.06	295.3 Vir
3 Mär 2012	13h50m59.15s	-08 32' 37.2"	9.710	8.9976	0.4	133.8	4.2	23.22	144.29	6.28	295.1 Vir
4 Mär 2012	13h50m50.01s	-08 31' 32.3"	9.710	8.9857	0.4	134.8	4.2	23.60	145.31	6.50	294.8 Vir
5 Mär 2012	13h50m41.54s	-08 30' 25.8"	9.710	8.9741	0.4	135.9	4.1	23.98	146.34	6.72	294.6 Vir
6 Mär 2012	13h50m30.74s	-08 29' 17.6"	9.711	8.9626	0.4	136.9	4.0	24.34	147.38	6.93	294.4 Vir
7 Mär 2012	13h50m20.61s	-08 28' 07.7"	9.711	8.9514	0.4	137.9	3.9	24.69	148.43	7.14	294.3 Vir
8 Mär 2012	13h50m10.16s	-08 26' 56.3"	9.711	8.9404	0.4	139.0	3.8	25.04	149.48	7.35	294.1 Vir
9 Mär 2012	13h49m59.40s	-08 25' 43.3"	9.711	8.9296	0.4	140.0	3.8	25.38	150.54	7.55	294.0 Vir
10 Mär 2012	13h49m48.33s	-08 24' 28.8"	9.712	8.9191	0.4	141.1	3.7	25.70	151.62	7.75	293.8 Vir
11 Mär 2012	13h49m36.96s	-08 23' 12.8"	9.712	8.9088	0.4	142.1	3.6	26.02	152.69	7.95	293.7 Vir
12 Mär 2012	13h49m25.29s	-08 21' 55.3"	9.712	8.8987	0.4	143.2	3.5	26.33	153.78	8.14	293.5 Vir
13 Mär 2012	13h49m13.32s	-08 20' 36.4"	9.713	8.8889	0.4	144.2	3.4	26.63	154.88	8.33	293.4 Vir
14 Mär 2012	13h49m01.06s	-08 19' 16.1"	9.713	8.8793	0.4	145.3	3.3	26.91	155.98	8.52	293.3 Vir

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
15 Mär 2012	13h48m48.53s	-08 17' 54.5"	9.713	8.8700	0.4	146.3	3.3	27.19	157.09	8.70	293.2 Vir
16 Mär 2012	13h48m35.71s	-08 16' 31.5"	9.713	8.8609	0.4	147.4	3.2	27.46	158.21	8.88	293.1 Vir
17 Mär 2012	13h48m22.63s	-08 15' 07.3"	9.714	8.8521	0.4	148.4	3.1	27.71	159.33	9.05	293.0 Vir
18 Mär 2012	13h48m09.29s	-08 13' 41.9"	9.714	8.8435	0.3	149.5	3.0	27.96	160.47	9.22	292.9 Vir
19 Mär 2012	13h47m55.69s	-08 12' 15.2"	9.714	8.8352	0.3	150.5	2.9	28.19	161.61	9.38	292.8 Vir
20 Mär 2012	13h47m41.84s	-08 10' 47.4"	9.715	8.8272	0.3	151.6	2.8	28.41	162.75	9.54	292.7 Vir
21 Mär 2012	13h47m27.75s	-08 09' 18.6"	9.715	8.8195	0.3	152.6	2.7	28.62	163.90	9.69	292.6 Vir
22 Mär 2012	13h47m13.43s	-08 07' 48.7"	9.715	8.8120	0.3	153.7	2.6	28.81	165.06	9.84	292.5 Vir
23 Mär 2012	13h46m58.89s	-08 06' 17.7"	9.715	8.8048	0.3	154.7	2.5	29.00	166.23	9.99	292.4 Vir
24 Mär 2012	13h46m44.13s	-08 04' 45.9"	9.716	8.7979	0.3	155.8	2.4	29.17	167.40	10.12	292.3 Vir
25 Mär 2012	13h46m29.16s	-08 03' 13.1"	9.716	8.7912	0.3	156.8	2.3	29.33	168.57	10.25	292.3 Vir
26 Mär 2012	13h46m13.99s	-08 01' 39.5"	9.716	8.7849	0.3	157.9	2.2	29.48	169.75	10.38	292.2 Vir
27 Mär 2012	13h45m58.63s	-08 00' 05.1"	9.717	8.7788	0.3	158.9	2.1	29.61	170.94	10.50	292.1 Vir
28 Mär 2012	13h45m43.09s	-07 58' 29.9"	9.717	8.7730	0.3	160.0	2.0	29.74	172.13	10.61	292.0 Vir
29 Mär 2012	13h45m27.38s	-07 56' 54.0"	9.717	8.7675	0.3	161.0	1.9	29.84	173.32	10.72	292.0 Vir
30 Mär 2012	13h45m11.50s	-07 55' 17.5"	9.717	8.7623	0.3	162.1	1.8	29.94	174.52	10.82	291.9 Vir
31 Mär 2012	13h44m55.47s	-07 53' 40.4"	9.718	8.7574	0.3	163.1	1.7	30.02	175.72	10.92	291.8 Vir
1 Apr 2012	13h44m39.29s	-07 52' 02.7"	9.718	8.7528	0.3	164.2	1.6	30.09	176.92	11.01	291.8 Vir
2 Apr 2012	13h44m22.97s	-07 50' 24.5"	9.718	8.7485	0.3	165.2	1.5	30.15	178.12	11.09	291.7 Vir
3 Apr 2012	13h44m06.52s	-07 48' 45.9"	9.718	8.7445	0.3	166.2	1.4	30.19	179.33	11.17	291.6 Vir
4 Apr 2012	13h43m49.96s	-07 47' 06.9"	9.719	8.7407	0.3	167.3	1.3	30.22	180.54	11.24	291.6 Vir
5 Apr 2012	13h43m33.28s	-07 45' 27.6"	9.719	8.7373	0.3	168.3	1.2	30.23	181.75	11.31	291.5 Vir
6 Apr 2012	13h43m16.50s	-07 43' 47.9"	9.719	8.7342	0.3	169.3	1.1	30.23	182.96	11.37	291.5 Vir
7 Apr 2012	13h42m59.62s	-07 42' 08.0"	9.720	8.7314	0.3	170.3	1.0	30.22	184.17	11.43	291.4 Vir
8 Apr 2012	13h42m42.66s	-07 40' 27.9"	9.720	8.7288	0.2	171.3	0.9	30.19	185.38	11.48	291.3 Vir
9 Apr 2012	13h42m25.62s	-07 38' 47.7"	9.720	8.7266	0.2	172.3	0.8	30.15	186.59	11.52	291.3 Vir
10 Apr 2012	13h42m08.51s	-07 37' 07.3"	9.720	8.7247	0.2	173.3	0.7	30.10	187.80	11.56	291.2 Vir
11 Apr 2012	13h41m51.34s	-07 35' 27.0"	9.721	8.7231	0.2	174.3	0.6	30.03	189.01	11.59	291.2 Vir
12 Apr 2012	13h41m34.11s	-07 33' 46.6"	9.721	8.7218	0.2	175.2	0.5	29.95	190.22	11.62	291.1 Vir
13 Apr 2012	13h41m16.85s	-07 32' 06.3"	9.721	8.7208	0.2	176.0	0.4	29.85	191.42	11.64	291.1 Vir
14 Apr 2012	13h40m59.55s	-07 30' 26.0"	9.722	8.7201	0.2	176.7	0.3	29.75	192.63	11.66	291.0 Vir
15 Apr 2012	13h40m42.23s	-07 28' 46.0"	9.722	8.7197	0.2	177.1	0.3	29.62	193.83	11.67	291.0 Vir
16 Apr 2012	13h40m24.89s	-07 27' 06.2"	9.722	8.7196	0.2	177.2	0.3	29.49	195.02	11.67	290.9 Vir
17 Apr 2012	13h40m07.54s	-07 25' 26.6"	9.722	8.7198	0.2	176.9	0.3	29.34	196.21	11.66	290.8 Vir
18 Apr 2012	13h39m50.20s	-07 23' 47.4"	9.723	8.7203	0.2	176.4	0.4	29.18	197.40	11.65	290.8 Vir
19 Apr 2012	13h39m32.87s	-07 22' 08.6"	9.723	8.7212	0.2	175.6	0.5	29.00	198.59	11.64	290.7 Vir
20 Apr 2012	13h39m15.57s	-07 20' 30.2"	9.723	8.7223	0.2	174.7	0.5	28.82	199.77	11.61	290.7 Vir
21 Apr 2012	13h38m58.29s	-07 18' 52.3"	9.724	8.7238	0.2	173.8	0.6	28.62	200.94	11.58	290.6 Vir
22 Apr 2012	13h38m41.06s	-07 17' 14.9"	9.724	8.7255	0.3	172.9	0.7	28.40	202.11	11.55	290.5 Vir
23 Apr 2012	13h38m23.88s	-07 15' 38.2"	9.724	8.7276	0.3	171.9	0.8	28.18	203.27	11.50	290.5 Vir
24 Apr 2012	13h38m06.77s	-07 14' 02.1"	9.724	8.7299	0.3	170.9	0.9	27.94	204.43	11.45	290.4 Vir
25 Apr 2012	13h37m49.72s	-07 12' 26.7"	9.725	8.7326	0.3	169.9	1.0	27.69	205.58	11.40	290.4 Vir
26 Apr 2012	13h37m32.75s	-07 10' 52.1"	9.725	8.7356	0.3	168.9	1.1	27.43	206.73	11.34	290.3 Vir
27 Apr 2012	13h37m15.87s	-07 09' 18.3"	9.725	8.7388	0.3	167.9	1.2	27.16	207.86	11.27	290.3 Vir
28 Apr 2012	13h36m59.09s	-07 07' 45.3"	9.725	8.7424	0.3	166.8	1.4	26.87	209.00	11.20	290.2 Vir
29 Apr 2012	13h36m42.41s	-07 06' 13.3"	9.726	8.7462	0.3	165.8	1.5	26.57	210.12	11.12	290.1 Vir
30 Apr 2012	13h36m25.85s	-07 04' 42.2"	9.726	8.7504	0.3	164.8	1.6	26.27	211.24	11.03	290.1 Vir
1 Mai 2012	13h36m09.42s	-07 03' 12.1"	9.726	8.7548	0.3	163.8	1.7	25.95	212.35	10.94	290.0 Vir
2 Mai 2012	13h35m53.11s	-07 01' 43.1"	9.727	8.7596	0.3	162.7	1.8	25.62	213.45	10.85	289.9 Vir
3 Mai 2012	13h35m36.95s	-07 00' 15.2"	9.727	8.7646	0.3	161.7	1.9	25.28	214.54	10.75	289.9 Vir
4 Mai 2012	13h35m20.93s	-06 58' 48.4"	9.727	8.7699	0.3	160.7	2.0	24.93	215.63	10.64	289.8 Vir
5 Mai 2012	13h35m05.07s	-06 57' 22.8"	9.727	8.7755	0.3	159.7	2.1	24.57	216.71	10.53	289.7 Vir
6 Mai 2012	13h34m49.36s	-06 55' 58.4"	9.728	8.7813	0.3	158.6	2.2	24.20	217.78	10.42	289.7 Vir
7 Mai 2012	13h34m33.83s	-06 54' 35.2"	9.728	8.7875	0.4	157.6	2.3	23.82	218.84	10.29	289.6 Vir
8 Mai 2012	13h34m18.47s	-06 53' 13.4"	9.728	8.7939	0.4	156.6	2.4	23.43	219.90	10.17	289.5 Vir
9 Mai 2012	13h34m03.30s	-06 51' 52.9"	9.729	8.8006	0.4	155.5	2.5	23.03	220.95	10.04	289.4 Vir
10 Mai 2012	13h33m48.32s	-06 50' 33.7"	9.729	8.8075	0.4	154.5	2.6	22.62	221.98	9.91	289.3 Vir
11 Mai 2012	13h33m33.53s	-06 49' 16.0"	9.729	8.8148	0.4	153.5	2.7	22.20	223.01	9.77	289.3 Vir
12 Mai 2012	13h33m18.95s	-06 47' 59.8"	9.729	8.8223	0.4	152.5	2.8	21.78	224.04	9.62	289.2 Vir
13 Mai 2012	13h33m04.58s	-06 46' 45.0"	9.730	8.8301	0.4	151.4	2.8	21.34	225.05	9.47	289.1 Vir
14 Mai 2012	13h32m50.43s	-06 45' 31.8"	9.730	8.8381	0.4	150.4	2.9	20.90	226.06	9.32	289.0 Vir
15 Mai 2012	13h32m36.50s	-06 44' 20.2"	9.730	8.8464	0.4	149.4	3.0	20.45	227.06	9.16	288.9 Vir
16 Mai 2012	13h32m22.81s	-06 43' 10.2"	9.730	8.8549	0.4	148.4	3.1	20.00	228.05	9.00	288.8 Vir
17 Mai 2012	13h32m09.35s	-06 42' 01.8"	9.731	8.8637	0.4	147.4	3.2	19.53	229.03	8.83	288.7 Vir
18 Mai 2012	13h31m56.15s	-06 40' 55.1"	9.731	8.8728	0.4	146.4	3.3	19.06	230.00	8.66	288.6 Vir
19 Mai 2012	13h31m43.19s	-06 39' 50.2"	9.731	8.8821	0.4	145.3	3.4	18.58	230.97	8.48	288.4 Vir
20 Mai 2012	13h31m30.50s	-06 38' 47.0"	9.732	8.8916	0.4	144.3	3.5	18.10	231.93	8.30	288.3 Vir
21 Mai 2012	13h31m18.07s	-06 37' 45.6"	9.732	8.9014	0.4	143.3	3.6	17.60	232.88	8.12	288.2 Vir
22 Mai 2012	13h31m05.92s	-06 36' 46.1"	9.732	8.9115	0.5	142.3	3.6	17.10	233.82	7.93	288.1 Vir
23 Mai 2012	13h30m54.04s	-06 35' 48.4"	9.732	8.9217	0.5	141.3	3.7	16.60	234.76	7.74	287.9 Vir
24 Mai 2012	13h30m42.45s	-06 34' 52.5"	9.733	8.9322	0.5	140.3	3.8	16.09	235.69	7.54	287.8 Vir
25 Mai 2012	13h30m31.14s	-06 33' 58.6"	9.733	8.9429	0.5	139.3	3.9	15.57	236.61	7.34	287.6 Vir
26 Mai 2012	13h30m20.13s	-06 33' 06.6"	9.733	8.9539	0.5	138.3	4.0	15.05	237.52	7.14	287.4 Vir
27 Mai 2012	13h30m09.42s	-06 32' 16.6"	9.734	8.9650	0.5	137.3	4.1	14.53	238.43	6.94	287.3 Vir

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
28 Mai 2012	13h29m59.01s	-06 31' 28.6"	9.734	8.9764	0.5	136.3	4.1	13.99	239.33	6.73	287.1 Vir
29 Mai 2012	13h29m48.91s	-06 30' 42.5"	9.734	8.9880	0.5	135.3	4.2	13.46	240.23	6.52	286.9 Vir
30 Mai 2012	13h29m39.13s	-06 29' 58.5"	9.734	8.9998	0.5	134.3	4.3	12.92	241.11	6.30	286.7 Vir
31 Mai 2012	13h29m29.66s	-06 29' 16.6"	9.735	9.012	0.5	133.3	4.4	12.37	242.00	6.09	286.4 Vir
1 Jun 2012	13h29m20.51s	-06 28' 36.7"	9.735	9.024	0.5	132.3	4.4	11.82	242.87	5.87	286.2 Vir
2 Jun 2012	13h29m11.68s	-06 27' 58.8"	9.735	9.036	0.5	131.3	4.5	11.27	243.74	5.65	285.9 Vir
3 Jun 2012	13h29m03.18s	-06 27' 23.1"	9.735	9.049	0.5	130.3	4.6	10.71	244.60	5.43	285.6 Vir
4 Jun 2012	13h28m55.00s	-06 26' 49.4"	9.736	9.062	0.5	129.3	4.6	10.14	245.46	5.20	285.3 Vir
5 Jun 2012	13h28m47.16s	-06 26' 17.9"	9.736	9.075	0.5	128.3	4.7	9.58	246.31	4.98	285.0 Vir
6 Jun 2012	13h28m39.65s	-06 25' 48.5"	9.736	9.088	0.6	127.3	4.8	9.01	247.16	4.75	284.6 Vir
7 Jun 2012	13h28m32.48s	-06 25' 21.2"	9.737	9.101	0.6	126.3	4.8	8.44	248.00	4.52	284.2 Vir
8 Jun 2012	13h28m25.66s	-06 24' 56.1"	9.737	9.114	0.6	125.3	4.9	7.86	248.83	4.29	283.7 Vir
9 Jun 2012	13h28m19.17s	-06 24' 33.2"	9.737	9.128	0.6	124.4	4.9	7.28	249.66	4.06	283.2 Vir
10 Jun 2012	13h28m13.03s	-06 24' 12.4"	9.737	9.142	0.6	123.4	5.0	6.70	250.49	3.83	282.6 Vir
11 Jun 2012	13h28m07.24s	-06 23' 53.9"	9.738	9.156	0.6	122.4	5.1	6.12	251.31	3.59	281.9 Vir
12 Jun 2012	13h28m01.80s	-06 23' 37.5"	9.738	9.170	0.6	121.4	5.1	5.53	252.13	3.35	281.2 Vir
13 Jun 2012	13h27m56.72s	-06 23' 23.4"	9.738	9.184	0.6	120.5	5.2	4.94	252.94	3.12	280.3 Vir
14 Jun 2012	13h27m51.99s	-06 23' 11.5"	9.738	9.198	0.6	119.5	5.2	4.35	253.75	2.88	279.3 Vir
15 Jun 2012	13h27m47.62s	-06 23' 01.8"	9.739	9.213	0.6	118.5	5.3	3.76	254.55	2.64	278.1 Vir
16 Jun 2012	13h27m43.61s	-06 22' 54.3"	9.739	9.228	0.6	117.5	5.3	3.16	255.35	2.40	276.6 Vir
17 Jun 2012	13h27m39.97s	-06 22' 49.2"	9.739	9.242	0.6	116.6	5.4	2.57	256.15	2.17	274.9 Vir
18 Jun 2012	13h27m36.69s	-06 22' 46.2"	9.740	9.257	0.6	115.6	5.4	1.97	256.94	1.93	272.7 Vir
19 Jun 2012	13h27m33.78s	-06 22' 45.5"	9.740	9.272	0.6	114.6	5.4	1.37	257.73	1.70	269.9 Vir
20 Jun 2012	13h27m31.24s	-06 22' 47.1"	9.740	9.288	0.6	113.7	5.5	0.77	258.51	1.47	266.2 Vir
21 Jun 2012	13h27m29.06s	-06 22' 50.9"	9.740	9.303	0.6	112.7	5.5	0.16	259.30	1.25	261.2 Vir
22 Jun 2012	13h27m27.26s	-06 22' 57.0"	9.741	9.318	0.6	111.8	5.6	-0.44	260.08	1.04	254.0 Vir
23 Jun 2012	13h27m25.83s	-06 23' 05.4"	9.741	9.334	0.7	110.8	5.6	-1.05	260.86	0.86	243.6 Vir
24 Jun 2012	13h27m24.77s	-06 23' 16.0"	9.741	9.349	0.7	109.8	5.6	-1.65	261.63	0.71	228.3 Vir
25 Jun 2012	13h27m24.08s	-06 23' 28.9"	9.741	9.365	0.7	108.9	5.7	-2.26	262.41	0.64	207.7 Vir
26 Jun 2012	13h27m23.77s	-06 23' 44.0"	9.742	9.381	0.7	107.9	5.7	-2.86	263.18	0.66	185.5 Vir
27 Jun 2012	13h27m23.83s	-06 24' 01.3"	9.742	9.396	0.7	107.0	5.7	-3.47	263.95	0.77	167.3 Vir
28 Jun 2012	13h27m24.26s	-06 24' 20.9"	9.742	9.412	0.7	106.0	5.8	-4.08	264.71	0.94	154.5 Vir
29 Jun 2012	13h27m25.06s	-06 24' 42.7"	9.743	9.428	0.7	105.1	5.8	-4.69	265.48	1.14	145.9 Vir
30 Jun 2012	13h27m26.24s	-06 25' 06.7"	9.743	9.444	0.7	104.1	5.8	-5.30	266.24	1.35	139.9 Vir
1 Jul 2012	13h27m27.78s	-06 25' 33.0"	9.743	9.461	0.7	103.2	5.8	-5.91	267.01	1.57	135.6 Vir
2 Jul 2012	13h27m29.70s	-06 26' 01.4"	9.743	9.477	0.7	102.3	5.9	-6.51	267.77	1.80	132.3 Vir
3 Jul 2012	13h27m31.98s	-06 26' 32.0"	9.744	9.493	0.7	101.3	5.9	-7.12	268.53	2.04	129.9 Vir
4 Jul 2012	13h27m34.63s	-06 27' 04.8"	9.744	9.509	0.7	100.4	5.9	-7.73	269.29	2.27	127.9 Vir
5 Jul 2012	13h27m37.65s	-06 27' 39.8"	9.744	9.526	0.7	99.4	5.9	-8.34	270.05	2.51	126.3 Vir
6 Jul 2012	13h27m41.03s	-06 28' 16.9"	9.744	9.542	0.7	98.5	5.9	-8.94	270.81	2.75	125.0 Vir
7 Jul 2012	13h27m44.78s	-06 28' 56.2"	9.745	9.559	0.7	97.6	5.9	-9.55	271.57	2.99	123.9 Vir
8 Jul 2012	13h27m48.89s	-06 29' 37.6"	9.745	9.575	0.7	96.6	5.9	-10.16	272.32	3.23	122.9 Vir
9 Jul 2012	13h27m53.37s	-06 30' 21.1"	9.745	9.592	0.7	95.7	6.0	-10.76	273.08	3.47	122.1 Vir
10 Jul 2012	13h27m58.22s	-06 31' 06.8"	9.746	9.608	0.7	94.8	6.0	-11.37	273.84	3.71	121.4 Vir
11 Jul 2012	13h28m03.42s	-06 31' 54.6"	9.746	9.625	0.7	93.9	6.0	-11.97	274.60	3.95	120.8 Vir
12 Jul 2012	13h28m08.99s	-06 32' 44.5"	9.746	9.641	0.7	92.9	6.0	-12.57	275.36	4.19	120.2 Vir
13 Jul 2012	13h28m14.92s	-06 33' 36.5"	9.746	9.658	0.7	92.0	6.0	-13.17	276.12	4.43	119.7 Vir
14 Jul 2012	13h28m21.22s	-06 34' 30.6"	9.747	9.674	0.7	91.1	6.0	-13.77	276.89	4.67	119.2 Vir
15 Jul 2012	13h28m27.87s	-06 35' 26.7"	9.747	9.691	0.7	90.2	6.0	-14.37	277.65	4.91	118.8 Vir
16 Jul 2012	13h28m34.87s	-06 36' 24.9"	9.747	9.708	0.7	89.2	6.0	-14.97	278.41	5.15	118.5 Vir
17 Jul 2012	13h28m42.24s	-06 37' 25.2"	9.747	9.724	0.8	88.3	6.0	-15.56	279.18	5.38	118.1 Vir
18 Jul 2012	13h28m49.96s	-06 38' 27.4"	9.748	9.741	0.8	87.4	6.0	-16.15	279.95	5.62	117.8 Vir
19 Jul 2012	13h28m58.03s	-06 39' 31.7"	9.748	9.757	0.8	86.5	6.0	-16.75	280.71	5.85	117.5 Vir
20 Jul 2012	13h29m06.46s	-06 40' 37.9"	9.748	9.774	0.8	85.6	6.0	-17.33	281.49	6.09	117.3 Vir
21 Jul 2012	13h29m15.24s	-06 41' 46.2"	9.749	9.791	0.8	84.7	6.0	-17.92	282.26	6.32	117.0 Vir
22 Jul 2012	13h29m24.36s	-06 42' 56.4"	9.749	9.807	0.8	83.7	5.9	-18.51	283.04	6.55	116.8 Vir
23 Jul 2012	13h29m33.83s	-06 44' 08.5"	9.749	9.824	0.8	82.8	5.9	-19.09	283.81	6.78	116.6 Vir
24 Jul 2012	13h29m43.64s	-06 45' 22.5"	9.749	9.840	0.8	81.9	5.9	-19.67	284.59	7.00	116.4 Vir
25 Jul 2012	13h29m53.80s	-06 46' 38.4"	9.750	9.857	0.8	81.0	5.9	-20.25	285.38	7.23	116.2 Vir
26 Jul 2012	13h30m04.29s	-06 47' 56.2"	9.750	9.873	0.8	80.1	5.9	-20.83	286.17	7.45	116.0 Vir
27 Jul 2012	13h30m15.11s	-06 49' 15.8"	9.750	9.889	0.8	79.2	5.9	-21.40	286.96	7.67	115.8 Vir
28 Jul 2012	13h30m26.27s	-06 50' 37.3"	9.750	9.906	0.8	78.3	5.9	-21.97	287.75	7.89	115.7 Vir
29 Jul 2012	13h30m37.76s	-06 52' 00.6"	9.751	9.922	0.8	77.4	5.8	-22.54	288.55	8.11	115.5 Vir
30 Jul 2012	13h30m49.57s	-06 53' 25.6"	9.751	9.938	0.8	76.5	5.8	-23.11	289.35	8.32	115.4 Vir
31 Jul 2012	13h31m01.70s	-06 54' 52.4"	9.751	9.954	0.8	75.6	5.8	-23.67	290.15	8.54	115.3 Vir
1 Aug 2012	13h31m14.16s	-06 56' 21.0"	9.752	9.970	0.8	74.7	5.8	-24.23	290.96	8.75	115.1 Vir
2 Aug 2012	13h31m26.93s	-06 57' 51.3"	9.752	9.986	0.8	73.8	5.7	-24.78	291.78	8.96	115.0 Vir
3 Aug 2012	13h31m40.02s	-06 59' 23.2"	9.752	10.002	0.8	72.9	5.7	-25.33	292.59	9.16	114.9 Vir
4 Aug 2012	13h31m53.43s	-07 00' 56.9"	9.752	10.018	0.8	72.0	5.7	-25.88	293.42	9.37	114.8 Vir
5 Aug 2012	13h32m07.14s	-07 02' 32.2"	9.753	10.034	0.8	71.1	5.6	-26.43	294.24	9.57	114.7 Vir
6 Aug 2012	13h32m21.16s	-07 04' 09.2"	9.753	10.049	0.8	70.2	5.6	-26.97	295.08	9.78	114.6 Vir
7 Aug 2012	13h32m35.48s	-07 05' 47.8"	9.753	10.065	0.8	69.3	5.6	-27.51	295.92	9.98	114.5 Vir
8 Aug 2012	13h32m50.11s	-07 07' 27.9"	9.753	10.080	0.8	68.4	5.5	-28.04	296.76	10.18	114.4 Vir
9 Aug 2012	13h33m05.04s	-07 09' 09.7"	9.754	10.096	0.8	67.6	5.5	-28.57	297.61	10.37	114.3 Vir

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
10 Aug 2012	13h33m20.27s	-07 10' 53.0"	9.754	10.111	0.8	66.7	5.5	-29.10	298.46	10.57	114.2 Vir
11 Aug 2012	13h33m35.80s	-07 12' 37.9"	9.754	10.126	0.8	65.8	5.4	-29.62	299.32	10.76	114.1 Vir
12 Aug 2012	13h33m51.61s	-07 14' 24.3"	9.755	10.141	0.8	64.9	5.4	-30.14	300.19	10.95	114.0 Vir
13 Aug 2012	13h34m07.72s	-07 16' 12.2"	9.755	10.156	0.8	64.0	5.4	-30.65	301.07	11.14	113.9 Vir
14 Aug 2012	13h34m24.12s	-07 18' 01.5"	9.755	10.171	0.8	63.1	5.3	-31.16	301.95	11.33	113.8 Vir
15 Aug 2012	13h34m40.80s	-07 19' 52.3"	9.755	10.186	0.8	62.2	5.3	-31.66	302.83	11.51	113.7 Vir
16 Aug 2012	13h34m57.76s	-07 21' 44.6"	9.756	10.201	0.8	61.4	5.2	-32.16	303.73	11.70	113.7 Vir
17 Aug 2012	13h35m15.00s	-07 23' 38.2"	9.756	10.215	0.8	60.5	5.2	-32.65	304.63	11.88	113.6 Vir
18 Aug 2012	13h35m32.51s	-07 25' 33.2"	9.756	10.230	0.8	59.6	5.1	-33.14	305.54	12.06	113.5 Vir
19 Aug 2012	13h35m50.30s	-07 27' 29.6"	9.756	10.244	0.8	58.7	5.1	-33.62	306.45	12.23	113.4 Vir
20 Aug 2012	13h36m08.36s	-07 29' 27.2"	9.757	10.258	0.8	57.8	5.0	-34.10	307.38	12.41	113.4 Vir
21 Aug 2012	13h36m26.68s	-07 31' 26.2"	9.757	10.272	0.8	56.9	5.0	-34.57	308.31	12.58	113.3 Vir
22 Aug 2012	13h36m45.26s	-07 33' 26.5"	9.757	10.286	0.8	56.1	4.9	-35.04	309.25	12.75	113.2 Vir
23 Aug 2012	13h37m04.10s	-07 35' 28.0"	9.758	10.299	0.8	55.2	4.9	-35.50	310.19	12.91	113.2 Vir
24 Aug 2012	13h37m23.19s	-07 37' 30.7"	9.758	10.313	0.8	54.3	4.8	-35.95	311.15	13.08	113.1 Vir
25 Aug 2012	13h37m42.53s	-07 39' 34.6"	9.758	10.326	0.8	53.4	4.8	-36.40	312.11	13.24	113.0 Vir
26 Aug 2012	13h38m02.12s	-07 41' 39.7"	9.758	10.340	0.8	52.6	4.7	-36.84	313.08	13.39	113.0 Vir
27 Aug 2012	13h38m21.95s	-07 43' 45.9"	9.759	10.353	0.8	51.7	4.7	-37.27	314.07	13.55	112.9 Vir
28 Aug 2012	13h38m42.02s	-07 45' 53.2"	9.759	10.366	0.8	50.8	4.6	-37.70	315.05	13.70	112.9 Vir
29 Aug 2012	13h39m02.32s	-07 48' 01.7"	9.759	10.378	0.8	49.9	4.5	-38.12	316.05	13.85	112.8 Vir
30 Aug 2012	13h39m22.86s	-07 50' 11.2"	9.759	10.391	0.8	49.1	4.5	-38.54	317.06	14.00	112.7 Vir
31 Aug 2012	13h39m43.62s	-07 52' 21.7"	9.760	10.404	0.8	48.2	4.4	-38.94	318.08	14.14	112.7 Vir
1 Sep 2012	13h40m04.61s	-07 54' 33.2"	9.760	10.416	0.8	47.3	4.4	-39.34	319.10	14.29	112.6 Vir
2 Sep 2012	13h40m25.81s	-07 56' 45.8"	9.760	10.428	0.8	46.4	4.3	-39.73	320.14	14.43	112.6 Vir
3 Sep 2012	13h40m47.24s	-07 58' 59.3"	9.760	10.440	0.8	45.6	4.2	-40.12	321.18	14.57	112.5 Vir
4 Sep 2012	13h41m08.89s	-08 01' 13.8"	9.761	10.452	0.8	44.7	4.2	-40.50	322.24	14.71	112.5 Vir
5 Sep 2012	13h41m30.74s	-08 03' 29.2"	9.761	10.463	0.8	43.8	4.1	-40.86	323.30	14.84	112.4 Vir
6 Sep 2012	13h41m52.81s	-08 05' 45.5"	9.761	10.475	0.8	43.0	4.0	-41.22	324.37	14.97	112.3 Vir
7 Sep 2012	13h42m15.08s	-08 08' 02.7"	9.762	10.486	0.8	42.1	4.0	-41.58	325.45	15.10	112.3 Vir
8 Sep 2012	13h42m37.55s	-08 10' 20.7"	9.762	10.497	0.8	41.2	3.9	-41.92	326.54	15.23	112.2 Vir
9 Sep 2012	13h43m00.23s	-08 12' 39.6"	9.762	10.508	0.8	40.4	3.8	-42.25	327.65	15.36	112.2 Vir
10 Sep 2012	13h43m23.10s	-08 14' 59.3"	9.762	10.518	0.8	39.5	3.8	-42.58	328.76	15.48	112.1 Vir
11 Sep 2012	13h43m46.16s	-08 17' 19.7"	9.763	10.529	0.8	38.6	3.7	-42.90	329.87	15.60	112.1 Vir
12 Sep 2012	13h44m09.41s	-08 19' 40.9"	9.763	10.539	0.8	37.8	3.6	-43.20	331.00	15.72	112.0 Vir
13 Sep 2012	13h44m32.85s	-08 22' 02.9"	9.763	10.549	0.8	36.9	3.5	-43.50	332.14	15.83	112.0 Vir
14 Sep 2012	13h44m56.47s	-08 24' 25.5"	9.763	10.559	0.8	36.0	3.5	-43.79	333.29	15.95	111.9 Vir
15 Sep 2012	13h45m20.27s	-08 26' 48.9"	9.764	10.569	0.8	35.2	3.4	-44.07	334.44	16.06	111.9 Vir
16 Sep 2012	13h45m44.24s	-08 29' 12.9"	9.764	10.578	0.8	34.3	3.3	-44.34	335.61	16.16	111.8 Vir
17 Sep 2012	13h46m08.38s	-08 31' 37.5"	9.764	10.587	0.8	33.4	3.3	-44.60	336.78	16.27	111.8 Vir
18 Sep 2012	13h46m32.69s	-08 34' 02.7"	9.765	10.596	0.7	32.6	3.2	-44.85	337.96	16.37	111.7 Vir
19 Sep 2012	13h46m57.16s	-08 36' 28.4"	9.765	10.605	0.7	31.7	3.1	-45.09	339.15	16.47	111.7 Vir
20 Sep 2012	13h47m21.79s	-08 38' 54.8"	9.765	10.614	0.7	30.8	3.0	-45.31	340.35	16.57	111.6 Vir
21 Sep 2012	13h47m46.57s	-08 41' 21.6"	9.765	10.622	0.7	30.0	2.9	-45.53	341.55	16.66	111.6 Vir
22 Sep 2012	13h48m11.50s	-08 43' 48.9"	9.766	10.630	0.7	29.1	2.9	-45.74	342.76	16.75	111.5 Vir
23 Sep 2012	13h48m36.58s	-08 46' 16.7"	9.766	10.638	0.7	28.2	2.8	-45.93	343.98	16.84	111.5 Vir
24 Sep 2012	13h49m01.80s	-08 48' 44.9"	9.766	10.646	0.7	27.4	2.7	-46.12	345.21	16.92	111.4 Vir
25 Sep 2012	13h49m27.15s	-08 51' 13.5"	9.766	10.654	0.7	26.5	2.6	-46.29	346.44	17.00	111.4 Vir
26 Sep 2012	13h49m52.64s	-08 53' 42.5"	9.767	10.661	0.7	25.6	2.5	-46.45	347.68	17.08	111.3 Vir
27 Sep 2012	13h50m18.25s	-08 56' 11.9"	9.767	10.668	0.7	24.8	2.5	-46.61	348.92	17.16	111.3 Vir
28 Sep 2012	13h50m43.99s	-08 58' 41.6"	9.767	10.675	0.7	23.9	2.4	-46.75	350.17	17.23	111.2 Vir
29 Sep 2012	13h51m09.85s	-09 01' 11.6"	9.767	10.681	0.7	23.1	2.3	-46.87	351.43	17.31	111.2 Vir
30 Sep 2012	13h51m35.84s	-09 03' 41.9"	9.768	10.688	0.7	22.2	2.2	-46.99	352.68	17.38	111.2 Vir
1 Okt 2012	13h52m01.93s	-09 06' 12.5"	9.768	10.694	0.7	21.3	2.1	-47.09	353.95	17.44	111.1 Vir
2 Okt 2012	13h52m28.14s	-09 08' 43.3"	9.768	10.700	0.7	20.5	2.1	-47.19	355.21	17.51	111.1 Vir
3 Okt 2012	13h52m54.46s	-09 11' 14.3"	9.769	10.705	0.7	19.6	2.0	-47.27	356.48	17.57	111.0 Vir
4 Okt 2012	13h53m20.88s	-09 13' 45.6"	9.769	10.711	0.7	18.7	1.9	-47.34	357.75	17.63	111.0 Vir
5 Okt 2012	13h53m47.40s	-09 16' 17.0"	9.769	10.716	0.7	17.9	1.8	-47.39	359.03	17.69	110.9 Vir
6 Okt 2012	13h54m14.01s	-09 18' 48.5"	9.769	10.721	0.7	17.0	1.7	-47.44	0.30	17.74	110.9 Vir
7 Okt 2012	13h54m40.72s	-09 21' 20.2"	9.770	10.726	0.7	16.2	1.6	-47.47	1.58	17.79	110.8 Vir
8 Okt 2012	13h55m07.52s	-09 23' 52.0"	9.770	10.730	0.7	15.3	1.5	-47.49	2.86	17.84	110.8 Vir
9 Okt 2012	13h55m34.41s	-09 26' 23.8"	9.770	10.734	0.7	14.4	1.5	-47.50	4.13	17.89	110.7 Vir
10 Okt 2012	13h56m01.38s	-09 28' 55.7"	9.770	10.738	0.7	13.6	1.4	-47.50	5.41	17.94	110.7 Vir
11 Okt 2012	13h56m28.43s	-09 31' 27.7"	9.771	10.742	0.7	12.7	1.3	-47.49	6.68	17.98	110.6 Vir
12 Okt 2012	13h56m55.55s	-09 33' 59.6"	9.771	10.745	0.7	11.9	1.2	-47.46	7.96	18.02	110.6 Vir
13 Okt 2012	13h57m22.74s	-09 36' 31.5"	9.771	10.749	0.7	11.0	1.1	-47.42	9.23	18.05	110.5 Vir
14 Okt 2012	13h57m49.99s	-09 39' 03.4"	9.771	10.752	0.6	10.2	1.0	-47.37	10.50	18.09	110.5 Vir
15 Okt 2012	13h58m17.31s	-09 41' 35.2"	9.772	10.754	0.6	9.3	0.9	-47.31	11.76	18.12	110.4 Vir
16 Okt 2012	13h58m44.68s	-09 44' 06.8"	9.772	10.757	0.6	8.5	0.9	-47.24	13.03	18.14	110.4 Vir
17 Okt 2012	13h59m12.10s	-09 46' 38.4"	9.772	10.759	0.6	7.6	0.8	-47.15	14.29	18.17	110.4 Vir
18 Okt 2012	13h59m39.57s	-09 49' 09.8"	9.773	10.761	0.6	6.8	0.7	-47.05	15.54	18.19	110.3 Vir
19 Okt 2012	14h00m07.09s	-09 51' 41.0"	9.773	10.763	0.6	6.0	0.6	-46.94	16.79	18.20	110.3 Vir
20 Okt 2012	14h00m34.64s	-09 54' 12.0"	9.773	10.764	0.6	5.2	0.5	-46.83	18.03	18.22	110.2 Vir
21 Okt 2012	14h01m02.22s	-09 56' 42.7"	9.773	10.766	0.6	4.4	0.4	-46.69	19.27	18.23	110.2 Vir
22 Okt 2012	14h01m29.83s	-09 59' 13.2"	9.774	10.767	0.6	3.7	0.4	-46.55	20.50	18.24	110.1 Vir

EPHEMERIDE 2012 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
23 Okt 2012	14h01m57.47s	-10 01' 43.4"	9.774	10.767	0.6	3.0	0.3	-46.40	21.73	18.25	110.1 Vir
24 Okt 2012	14h02m25.13s	-10 04' 13.3"	9.774	10.768	0.6	2.5	0.3	-46.24	22.95	18.25	110.0 Vir
25 Okt 2012	14h02m52.80s	-10 06' 42.9"	9.774	10.768	0.6	2.3	0.2	-46.06	24.16	18.25	110.0 Vir
26 Okt 2012	14h03m20.49s	-10 09' 12.1"	9.775	10.768	0.6	2.3	0.2	-45.88	25.37	18.25	109.9 Vir
27 Okt 2012	14h03m48.18s	-10 11' 41.0"	9.775	10.768	0.6	2.7	0.3	-45.68	26.56	18.24	109.9 Vir
28 Okt 2012	14h04m15.88s	-10 14' 09.5"	9.775	10.767	0.6	3.2	0.3	-45.48	27.75	18.24	109.8 Vir
29 Okt 2012	14h04m43.58s	-10 16' 37.5"	9.775	10.766	0.6	3.9	0.4	-45.26	28.93	18.23	109.8 Vir
30 Okt 2012	14h05m11.28s	-10 19' 05.1"	9.776	10.765	0.6	4.6	0.5	-45.04	30.11	18.21	109.7 Vir
31 Okt 2012	14h05m38.96s	-10 21' 32.3"	9.776	10.764	0.6	5.4	0.6	-44.80	31.27	18.20	109.7 Vir
1 Nov 2012	14h06m06.64s	-10 23' 58.9"	9.776	10.762	0.6	6.2	0.6	-44.56	32.42	18.18	109.6 Vir
2 Nov 2012	14h06m34.30s	-10 26' 25.1"	9.776	10.760	0.6	7.1	0.7	-44.30	33.57	18.16	109.6 Vir
3 Nov 2012	14h07m01.95s	-10 28' 50.7"	9.777	10.758	0.6	7.9	0.8	-44.04	34.71	18.14	109.5 Vir
4 Nov 2012	14h07m29.56s	-10 31' 15.8"	9.777	10.756	0.6	8.8	0.9	-43.77	35.83	18.11	109.5 Vir
5 Nov 2012	14h07m57.15s	-10 33' 40.3"	9.777	10.753	0.6	9.6	1.0	-43.48	36.95	18.08	109.5 Vir
6 Nov 2012	14h08m24.71s	-10 36' 04.2"	9.778	10.751	0.6	10.5	1.1	-43.19	38.06	18.05	109.4 Vir
7 Nov 2012	14h08m52.24s	-10 38' 27.5"	9.778	10.748	0.6	11.3	1.1	-42.90	39.16	18.02	109.4 Vir
8 Nov 2012	14h09m19.72s	-10 40' 50.2"	9.778	10.744	0.6	12.2	1.2	-42.59	40.25	17.98	109.3 Vir
9 Nov 2012	14h09m47.16s	-10 43' 12.2"	9.778	10.741	0.6	13.1	1.3	-42.27	41.33	17.94	109.3 Vir
10 Nov 2012	14h10m14.54s	-10 45' 33.5"	9.779	10.737	0.6	14.0	1.4	-41.95	42.40	17.90	109.2 Vir
11 Nov 2012	14h10m41.88s	-10 47' 54.1"	9.779	10.733	0.6	14.8	1.5	-41.62	43.46	17.85	109.2 Vir
12 Nov 2012	14h11m09.15s	-10 50' 13.9"	9.779	10.728	0.6	15.7	1.6	-41.28	44.51	17.80	109.1 Vir
13 Nov 2012	14h11m36.36s	-10 52' 33.0"	9.779	10.724	0.6	16.6	1.7	-40.94	45.55	17.75	109.1 Vir
14 Nov 2012	14h12m03.50s	-10 54' 51.4"	9.780	10.719	0.6	17.5	1.7	-40.58	46.58	17.70	109.0 Vir
15 Nov 2012	14h12m30.57s	-10 57' 08.9"	9.780	10.714	0.6	18.4	1.8	-40.22	47.60	17.64	109.0 Vir
16 Nov 2012	14h12m57.56s	-10 59' 25.5"	9.780	10.708	0.6	19.2	1.9	-39.86	48.62	17.57	108.9 Vir
17 Nov 2012	14h13m24.46s	-11 01' 41.4"	9.780	10.703	0.6	20.1	2.0	-39.48	49.62	17.51	108.9 Vir
18 Nov 2012	14h13m51.27s	-11 03' 56.3"	9.781	10.697	0.6	21.0	2.1	-39.10	50.61	17.44	108.8 Vir
19 Nov 2012	14h14m17.99s	-11 06' 10.3"	9.781	10.691	0.6	21.9	2.2	-38.71	51.60	17.37	108.8 Vir
20 Nov 2012	14h14m44.61s	-11 08' 23.5"	9.781	10.685	0.6	22.8	2.2	-38.32	52.57	17.30	108.7 Vir
21 Nov 2012	14h15m11.12s	-11 10' 35.7"	9.782	10.678	0.6	23.7	2.3	-37.92	53.54	17.22	108.7 Vir
22 Nov 2012	14h15m37.53s	-11 12' 46.9"	9.782	10.671	0.6	24.6	2.4	-37.52	54.50	17.14	108.6 Vir
23 Nov 2012	14h16m03.83s	-11 14' 57.1"	9.782	10.664	0.6	25.5	2.5	-37.10	55.45	17.06	108.5 Vir
24 Nov 2012	14h16m30.01s	-11 17' 06.4"	9.782	10.657	0.6	26.4	2.6	-36.69	56.39	16.97	108.5 Vir
25 Nov 2012	14h16m56.07s	-11 19' 14.6"	9.783	10.650	0.6	27.3	2.6	-36.27	57.32	16.88	108.4 Vir
26 Nov 2012	14h17m22.01s	-11 21' 21.8"	9.783	10.642	0.6	28.2	2.7	-35.84	58.25	16.79	108.4 Vir
27 Nov 2012	14h17m47.82s	-11 23' 28.0"	9.783	10.634	0.6	29.0	2.8	-35.40	59.16	16.70	108.3 Vir
28 Nov 2012	14h18m13.49s	-11 25' 33.0"	9.783	10.626	0.6	29.9	2.9	-34.97	60.07	16.60	108.3 Vir
29 Nov 2012	14h18m39.03s	-11 27' 37.0"	9.784	10.617	0.6	30.8	3.0	-34.52	60.97	16.50	108.2 Vir
30 Nov 2012	14h19m04.43s	-11 29' 39.9"	9.784	10.609	0.7	31.7	3.0	-34.08	61.86	16.40	108.2 Vir
1 Dez 2012	14h19m29.68s	-11 31' 41.6"	9.784	10.600	0.7	32.6	3.1	-33.62	62.75	16.30	108.1 Vir
2 Dez 2012	14h19m54.77s	-11 33' 42.2"	9.784	10.591	0.7	33.6	3.2	-33.17	63.62	16.19	108.1 Vir
3 Dez 2012	14h20m19.72s	-11 35' 41.6"	9.785	10.582	0.7	34.5	3.3	-32.70	64.49	16.08	108.0 Vir
4 Dez 2012	14h20m44.51s	-11 37' 39.8"	9.785	10.572	0.7	35.4	3.3	-32.24	65.36	15.97	108.0 Vir
5 Dez 2012	14h21m09.13s	-11 39' 36.8"	9.785	10.562	0.7	36.3	3.4	-31.77	66.21	15.85	107.9 Vir
6 Dez 2012	14h21m33.58s	-11 41' 32.6"	9.785	10.552	0.7	37.2	3.5	-31.29	67.06	15.73	107.8 Vir
7 Dez 2012	14h21m57.86s	-11 43' 27.2"	9.786	10.542	0.7	38.1	3.6	-30.82	67.91	15.61	107.8 Lib
8 Dez 2012	14h22m21.96s	-11 45' 20.5"	9.786	10.532	0.7	39.0	3.6	-30.33	68.75	15.49	107.7 Lib
9 Dez 2012	14h22m45.88s	-11 47' 12.4"	9.786	10.521	0.7	39.9	3.7	-29.85	69.58	15.36	107.7 Lib
10 Dez 2012	14h23m09.61s	-11 49' 03.1"	9.786	10.511	0.7	40.8	3.8	-29.36	70.40	15.23	107.6 Lib
11 Dez 2012	14h23m33.15s	-11 50' 52.5"	9.787	10.500	0.7	41.7	3.8	-28.87	71.22	15.09	107.6 Lib
12 Dez 2012	14h23m56.49s	-11 52' 40.5"	9.787	10.488	0.7	42.7	3.9	-28.37	72.04	14.96	107.5 Lib
13 Dez 2012	14h24m19.62s	-11 54' 27.1"	9.787	10.477	0.7	43.6	4.0	-27.87	72.84	14.82	107.4 Lib
14 Dez 2012	14h24m42.55s	-11 56' 12.4"	9.788	10.465	0.7	44.5	4.0	-27.37	73.65	14.67	107.4 Lib
15 Dez 2012	14h25m05.26s	-11 57' 56.2"	9.788	10.454	0.7	45.4	4.1	-26.87	74.45	14.52	107.3 Lib
16 Dez 2012	14h25m27.75s	-11 59' 38.7"	9.788	10.442	0.7	46.3	4.2	-26.36	75.24	14.37	107.3 Lib
17 Dez 2012	14h25m50.02s	-12 01' 19.6"	9.788	10.430	0.7	47.2	4.2	-25.85	76.03	14.22	107.2 Lib
18 Dez 2012	14h26m12.06s	-12 02' 59.2"	9.789	10.417	0.6	48.2	4.3	-25.33	76.81	14.06	107.1 Lib
19 Dez 2012	14h26m33.87s	-12 04' 37.2"	9.789	10.405	0.6	49.1	4.4	-24.82	77.59	13.91	107.1 Lib
20 Dez 2012	14h26m55.44s	-12 06' 13.8"	9.789	10.392	0.6	50.0	4.4	-24.30	78.37	13.75	107.0 Lib
21 Dez 2012	14h27m16.77s	-12 07' 48.9"	9.789	10.379	0.6	50.9	4.5	-23.78	79.14	13.58	106.9 Lib
22 Dez 2012	14h27m37.86s	-12 09' 22.4"	9.790	10.366	0.6	51.9	4.5	-23.25	79.91	13.42	106.9 Lib
23 Dez 2012	14h27m58.69s	-12 10' 54.4"	9.790	10.353	0.6	52.8	4.6	-22.73	80.67	13.25	106.8 Lib
24 Dez 2012	14h28m19.27s	-12 12' 24.9"	9.790	10.340	0.6	53.7	4.6	-22.20	81.43	13.08	106.7 Lib
25 Dez 2012	14h28m39.60s	-12 13' 53.8"	9.790	10.326	0.6	54.7	4.7	-21.67	82.19	12.90	106.7 Lib
26 Dez 2012	14h28m59.66s	-12 15' 21.2"	9.791	10.313	0.6	55.6	4.8	-21.13	82.95	12.73	106.6 Lib
27 Dez 2012	14h29m19.46s	-12 16' 47.0"	9.791	10.299	0.6	56.5	4.8	-20.60	83.70	12.55	106.5 Lib
28 Dez 2012	14h29m38.99s	-12 18' 11.1"	9.791	10.285	0.6	57.5	4.9	-20.06	84.45	12.37	106.4 Lib
29 Dez 2012	14h29m58.24s	-12 19' 33.7"	9.791	10.271	0.6	58.4	4.9	-19.53	85.19	12.18	106.4 Lib
30 Dez 2012	14h30m17.22s	-12 20' 54.6"	9.792	10.257	0.6	59.3	5.0	-18.99	85.94	12.00	106.3 Lib
31 Dez 2012	14h30m35.91s	-12 22' 13.9"	9.792	10.242	0.6	60.3	5.0	-18.44	86.68	11.81	106.2 Lib
1 Jan 2013	14h30m54.32s	-12 23' 31.6"	9.792	10.228	0.6	61.2	5.0	-17.90	87.42	11.62	106.1 Lib