



Die Bahn des Planeten Jupiter 2016

EPHEMERIDE 2017 – JUPITER

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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1 Jan 2017	13h19m12.87s	-06 58' 23.4"	5.4560	5.5468	-1.9	79.6	10.2	-2.68	98.04	15.78	110.2	Vir
2 Jan 2017	13h19m36.56s	-07 00' 31.4"	5.4560	5.5308	-2.0	80.5	10.2	-2.17	98.76	15.40	110.1	Vir
3 Jan 2017	13h19m59.70s	-07 02' 35.9"	5.4560	5.5149	-2.0	81.4	10.3	-1.65	99.48	15.01	110.0	Vir
4 Jan 2017	13h20m22.27s	-07 04' 36.8"	5.4560	5.4989	-2.0	82.4	10.3	-1.14	100.20	14.62	109.9	Vir
5 Jan 2017	13h20m44.26s	-07 06' 34.0"	5.4561	5.4828	-2.0	83.3	10.3	-0.62	100.92	14.23	109.9	Vir
6 Jan 2017	13h21m05.68s	-07 08' 27.5"	5.4561	5.4667	-2.0	84.2	10.3	-0.10	101.64	13.84	109.8	Vir
7 Jan 2017	13h21m26.51s	-07 10' 17.4"	5.4561	5.4506	-2.0	85.1	10.3	0.41	102.37	13.44	109.7	Vir
8 Jan 2017	13h21m46.75s	-07 12' 03.5"	5.4561	5.4345	-2.0	86.1	10.4	0.93	103.10	13.03	109.6	Vir
9 Jan 2017	13h22m06.40s	-07 13' 45.9"	5.4561	5.4184	-2.0	87.0	10.4	1.45	103.83	12.63	109.5	Vir
10 Jan 2017	13h22m25.45s	-07 15' 24.6"	5.4562	5.4022	-2.0	87.9	10.4	1.97	104.56	12.22	109.4	Vir
11 Jan 2017	13h22m43.89s	-07 16' 59.4"	5.4562	5.3861	-2.0	88.9	10.4	2.49	105.30	11.80	109.3	Vir
12 Jan 2017	13h23m01.72s	-07 18' 30.5"	5.4562	5.3699	-2.0	89.8	10.4	3.01	106.04	11.39	109.2	Vir
13 Jan 2017	13h23m18.93s	-07 19' 57.7"	5.4562	5.3537	-2.0	90.8	10.4	3.53	106.78	10.97	109.1	Vir
14 Jan 2017	13h23m35.52s	-07 21' 21.0"	5.4562	5.3376	-2.0	91.7	10.4	4.06	107.53	10.54	108.9	Vir
15 Jan 2017	13h23m51.48s	-07 22' 40.5"	5.4562	5.3214	-2.0	92.7	10.4	4.58	108.28	10.12	108.8	Vir
16 Jan 2017	13h24m06.81s	-07 23' 56.1"	5.4563	5.3053	-2.0	93.6	10.4	5.10	109.03	9.68	108.6	Vir
17 Jan 2017	13h24m21.49s	-07 25' 07.7"	5.4563	5.2892	-2.0	94.6	10.4	5.62	109.79	9.25	108.5	Vir
18 Jan 2017	13h24m35.53s	-07 26' 15.4"	5.4563	5.2730	-2.1	95.5	10.3	6.14	110.55	8.81	108.3	Vir
19 Jan 2017	13h24m48.91s	-07 27' 19.1"	5.4563	5.2570	-2.1	96.5	10.3	6.66	111.32	8.37	108.1	Vir
20 Jan 2017	13h25m01.63s	-07 28' 18.8"	5.4563	5.2409	-2.1	97.4	10.3	7.18	112.09	7.92	107.9	Vir
21 Jan 2017	13h25m13.69s	-07 29' 14.4"	5.4563	5.2249	-2.1	98.4	10.3	7.70	112.86	7.47	107.6	Vir
22 Jan 2017	13h25m25.08s	-07 30' 06.0"	5.4564	5.2089	-2.1	99.4	10.3	8.22	113.64	7.02	107.4	Vir
23 Jan 2017	13h25m35.79s	-07 30' 53.6"	5.4564	5.1930	-2.1	100.3	10.2	8.74	114.42	6.56	107.0	Vir
24 Jan 2017	13h25m45.82s	-07 31' 37.0"	5.4564	5.1771	-2.1	101.3	10.2	9.26	115.21	6.10	106.7	Vir
25 Jan 2017	13h25m55.17s	-07 32' 16.3"	5.4564	5.1612	-2.1	102.3	10.2	9.78	116.01	5.64	106.3	Vir
26 Jan 2017	13h26m03.82s	-07 32' 51.5"	5.4564	5.1454	-2.1	103.3	10.1	10.29	116.81	5.18	105.8	Vir
27 Jan 2017	13h26m11.79s	-07 33' 22.6"	5.4564	5.1297	-2.1	104.3	10.1	10.81	117.61	4.71	105.2	Vir
28 Jan 2017	13h26m19.05s	-07 33' 49.5"	5.4564	5.1140	-2.1	105.2	10.0	11.32	118.42	4.24	104.5	Vir
29 Jan 2017	13h26m25.61s	-07 34' 12.2"	5.4564	5.0985	-2.1	106.2	10.0	11.83	119.24	3.77	103.6	Vir
30 Jan 2017	13h26m31.47s	-07 34' 30.7"	5.4564	5.0830	-2.1	107.2	9.9	12.35	120.06	3.30	102.4	Vir
31 Jan 2017	13h26m36.63s	-07 34' 45.1"	5.4564	5.0675	-2.1	108.2	9.9	12.85	120.89	2.84	100.9	Vir
1 Feb 2017	13h26m41.07s	-07 34' 55.2"	5.4565	5.0522	-2.1	109.2	9.8	13.36	121.72	2.37	98.8	Vir
2 Feb 2017	13h26m44.81s	-07 35' 01.2"	5.4565	5.0369	-2.2	110.2	9.8	13.87	122.57	1.91	95.6	Vir
3 Feb 2017	13h26m47.84s	-07 35' 03.0"	5.4565	5.0218	-2.2	111.2	9.7	14.37	123.41	1.45	90.4	Vir
4 Feb 2017	13h26m50.15s	-07 35' 00.6"	5.4565	5.0067	-2.2	112.2	9.6	14.87	124.27	1.02	80.8	Vir
5 Feb 2017	13h26m51.76s	-07 34' 54.0"	5.4565	4.9918	-2.2	113.2	9.6	15.37	125.13	0.66	59.1	Vir
6 Feb 2017	13h26m52.65s	-07 34' 43.3"	5.4565	4.9770	-2.2	114.2	9.5	15.86	126.00	0.53	13.2	Vir
7 Feb 2017	13h26m52.84s	-07 34' 28.4"	5.4565	4.9623	-2.2	115.3	9.4	16.35	126.88	0.76	334.7	Vir
8 Feb 2017	13h26m52.31s	-07 34' 09.3"	5.4565	4.9477	-2.2	116.3	9.3	16.84	127.76	1.15	318.2	Vir
9 Feb 2017	13h26m51.07s	-07 33' 46.1"	5.4565	4.9332	-2.2	117.3	9.2	17.33	128.66	1.59	310.4	Vir
10 Feb 2017	13h26m49.13s	-07 33' 18.7"	5.4565	4.9189	-2.2	118.3	9.2	17.81	129.56	2.05	306.1	Vir
11 Feb 2017	13h26m46.47s	-07 32' 47.2"	5.4565	4.9047	-2.2	119.3	9.1	18.29	130.47	2.51	303.3	Vir
12 Feb 2017	13h26m43.11s	-07 32' 11.6"	5.4565	4.8906	-2.2	120.4	9.0	18.76	131.38	2.98	301.4	Vir
13 Feb 2017	13h26m39.03s	-07 31' 31.9"	5.4565	4.8767	-2.2	121.4	8.9	19.23	132.31	3.44	300.0	Vir
14 Feb 2017	13h26m34.25s	-07 30' 48.0"	5.4565	4.8629	-2.2	122.4	8.8	19.70	133.25	3.91	298.9	Vir
15 Feb 2017	13h26m28.77s	-07 30' 00.1"	5.4565	4.8493	-2.2	123.5	8.7	20.16	134.19	4.38	298.1	Vir
16 Feb 2017	13h26m22.58s	-07 29' 08.2"	5.4565	4.8358	-2.3	124.5	8.6	20.62	135.14	4.85	297.4	Vir
17 Feb 2017	13h26m15.68s	-07 28' 12.1"	5.4565	4.8225	-2.3	125.5	8.5	21.07	136.10	5.32	296.8	Vir
18 Feb 2017	13h26m08.09s	-07 27' 12.1"	5.4565	4.8094	-2.3	126.6	8.4	21.51	137.07	5.78	296.4	Vir
19 Feb 2017	13h26m59.80s	-07 26' 08.0"	5.4565	4.7964	-2.3	127.6	8.2	21.95	138.05	6.25	296.0	Vir
20 Feb 2017	13h25m50.81s	-07 25' 00.0"	5.4565	4.7837	-2.3	128.7	8.1	22.39	139.04	6.71	295.6	Vir
21 Feb 2017	13h25m41.14s	-07 23' 48.0"	5.4565	4.7711	-2.3	129.7	8.0	22.82	140.04	7.17	295.3	Vir
22 Feb 2017	13h25m30.78s	-07 22' 32.1"	5.4565	4.7586	-2.3	130.8	7.9	23.24	141.05	7.62	295.1	Vir
23 Feb 2017	13h25m19.74s	-07 21' 12.3"	5.4565	4.7464	-2.3	131.8	7.8	23.66	142.07	8.07	294.8	Vir
24 Feb 2017	13h25m08.03s	-07 19' 48.6"	5.4565	4.7344	-2.3	132.9	7.6	24.07	143.10	8.52	294.6	Vir
25 Feb 2017	13h24m55.65s	-07 18' 21.2"	5.4565	4.7225	-2.3	134.0	7.5	24.47	144.14	8.96	294.4	Vir
26 Feb 2017	13h24m42.61s	-07 16' 50.0"	5.4565	4.7109	-2.3	135.0	7.4	24.86	145.19	9.40	294.3	Vir
27 Feb 2017	13h24m28.92s	-07 15' 15.0"	5.4565	4.6995	-2.3	136.1	7.2	25.25	146.25	9.84	294.1	Vir
28 Feb 2017	13h24m14.58s	-07 13' 36.4"	5.4565	4.6883	-2.3	137.2	7.1	25.63	147.32	10.26	294.0	Vir
1 Mar 2017	13h23m59.61s	-07 11' 54.2"	5.4565	4.6773	-2.3	138.2	6.9	26.00	148.40	10.68	293.9	Vir
2 Mar 2017	13h23m44.01s	-07 10' 08.5"	5.4565	4.6666	-2.3	139.3	6.8	26.36	149.49	11.10	293.8	Vir
3 Mar 2017	13h23m27.79s	-07 08' 19.2"	5.4565	4.6560	-2.3	140.4	6.7	26.71	150.58	11.51	293.6	Vir
4 Mar 2017	13h23m10.98s	-07 06' 26.6"	5.4565	4.6457	-2.3	141.5	6.5	27.06	151.69	11.90	293.5	Vir
5 Mar 2017	13h22m53.57s	-07 04' 30.5"	5.4565	4.6357	-2.4	142.5	6.3	27.39	152.81	12.30	293.5	Vir
6 Mar 2017	13h22m35.58s	-07 02' 31.2"	5.4565	4.6258	-2.4	143.6	6.2	27.72	153.94	12.68	293.4	Vir
7 Mar 2017	13h22m17.02s	-07 00' 28.8"	5.4564	4.6162	-2.4	144.7	6.0	28.03	155.08	13.06	293.3	Vir
8 Mar 2017	13h21m57.90s	-06 58' 23.1"	5.4564	4.6069	-2.4	145.8	5.9	28.34	156.23	13.42	293.2	Vir
9 Mar 2017	13h21m38.24s	-06 56' 14.4"	5.4564	4.5978	-2.4	146.9	5.7	28.63	157.39	13.78	293.2	Vir
10 Mar 2017	13h21m18.04s	-06 54' 02.8"	5.4564	4.5890	-2.4	148.0	5.5	28.91	158.56	14.13	293.1	Vir
11 Mar 2017	13h20m57.33s	-06 51' 48.2"	5.4564	4.5804	-2.4	149.1	5.4	29.18	159.74	14.48	293.0	Vir
12 Mar 2017	13h20m36.11s	-06 49' 30.8"	5.4564	4.5721	-2.4	150.2	5.2	29.44	160.92	14.81	293.0	Vir
13 Mar 2017	13h20m14.39s	-06 47' 10.7"	5.4564	4.5640	-2.4	151.2	5.0	29.69	162.12	15.14	292.9	Vir
14 Mar 2017	13h19m52.19s	-06 44' 47.9"	5.4564	4.5562	-2.4	152.3	4.9	29.93	163.32	15.45	292.9	Vir
15 Mar 2017	13h19m29.52s	-06 42' 22.5"	5.4564	4.5487	-2.4	153.4	4.7	30.15	164.54	15.76	292.8	Vir
16 Mar 2017	13h19m06.40s	-06 39' 54.6"	5.4563	4.5415	-2.4	154.5	4.5	30.36	165.76	16.06	292.8	Vir

EPHEMERIDE 2017 – JUPITER

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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17 Mar 2017	13h18m42.84s	-06 37' 24.4"	5.4563	4.5345	-2.4	155.6	4.3	30.56	166.98	16.34	292.7	Vir
18 Mar 2017	13h18m18.86s	-06 34' 51.8"	5.4563	4.5278	-2.4	156.7	4.1	30.75	168.22	16.62	292.7	Vir
19 Mar 2017	13h17m54.46s	-06 32' 17.0"	5.4563	4.5214	-2.4	157.8	3.9	30.92	169.46	16.89	292.6	Vir
20 Mar 2017	13h17m29.68s	-06 29' 40.1"	5.4563	4.5152	-2.4	158.9	3.8	31.08	170.71	17.14	292.6	Vir
21 Mar 2017	13h17m04.52s	-06 27' 01.2"	5.4563	4.5094	-2.4	160.0	3.6	31.22	171.97	17.39	292.5	Vir
22 Mar 2017	13h16m38.99s	-06 24' 20.3"	5.4563	4.5038	-2.4	161.1	3.4	31.36	173.23	17.62	292.5	Vir
23 Mar 2017	13h16m13.13s	-06 21' 37.7"	5.4562	4.4985	-2.4	162.3	3.2	31.47	174.50	17.84	292.5	Vir
24 Mar 2017	13h15m46.94s	-06 18' 53.4"	5.4562	4.4935	-2.4	163.4	3.0	31.58	175.77	18.05	292.4	Vir
25 Mar 2017	13h15m20.44s	-06 16' 07.4"	5.4562	4.4888	-2.4	164.5	2.8	31.66	177.04	18.25	292.4	Vir
26 Mar 2017	13h14m53.66s	-06 13' 20.0"	5.4562	4.4844	-2.4	165.6	2.6	31.74	178.32	18.43	292.4	Vir
27 Mar 2017	13h14m26.61s	-06 10' 31.3"	5.4562	4.4803	-2.4	166.7	2.4	31.80	179.61	18.60	292.3	Vir
28 Mar 2017	13h13m59.31s	-06 07' 41.3"	5.4562	4.4766	-2.4	167.8	2.2	31.84	180.89	18.75	292.3	Vir
29 Mar 2017	13h13m31.79s	-06 04' 50.2"	5.4561	4.4731	-2.5	168.9	2.0	31.87	182.18	18.90	292.3	Vir
30 Mar 2017	13h13m04.05s	-06 01' 58.1"	5.4561	4.4699	-2.5	170.0	1.8	31.88	183.47	19.03	292.2	Vir
31 Mar 2017	13h12m36.13s	-05 59' 05.1"	5.4561	4.4670	-2.5	171.1	1.6	31.88	184.76	19.14	292.2	Vir
1 Apr 2017	13h12m08.05s	-05 56' 11.4"	5.4561	4.4644	-2.5	172.2	1.4	31.87	186.06	19.24	292.2	Vir
2 Apr 2017	13h11m39.82s	-05 53' 17.1"	5.4561	4.4622	-2.5	173.3	1.2	31.84	187.35	19.32	292.1	Vir
3 Apr 2017	13h11m11.47s	-05 50' 22.3"	5.4560	4.4602	-2.5	174.3	1.0	31.79	188.64	19.40	292.1	Vir
4 Apr 2017	13h10m43.02s	-05 47' 27.2"	5.4560	4.4585	-2.5	175.4	0.8	31.73	189.93	19.45	292.1	Vir
5 Apr 2017	13h10m14.48s	-05 44' 31.9"	5.4560	4.4572	-2.5	176.4	0.7	31.65	191.22	19.50	292.0	Vir
6 Apr 2017	13h09m45.89s	-05 41' 36.4"	5.4560	4.4562	-2.5	177.4	0.5	31.56	192.51	19.53	292.0	Vir
7 Apr 2017	13h09m17.24s	-05 38' 41.0"	5.4559	4.4554	-2.5	178.1	0.3	31.45	193.79	19.55	292.0	Vir
8 Apr 2017	13h08m48.58s	-05 35' 45.7"	5.4559	4.4550	-2.5	178.4	0.3	31.33	195.08	19.55	292.0	Vir
9 Apr 2017	13h08m19.91s	-05 32' 50.7"	5.4559	4.4549	-2.5	178.0	0.4	31.19	196.35	19.54	291.9	Vir
10 Apr 2017	13h07m51.26s	-05 29' 56.1"	5.4559	4.4551	-2.5	177.2	0.5	31.04	197.63	19.52	291.9	Vir
11 Apr 2017	13h07m22.64s	-05 27' 02.0"	5.4558	4.4556	-2.5	176.2	0.7	30.88	198.90	19.48	291.9	Vir
12 Apr 2017	13h06m54.08s	-05 24' 08.5"	5.4558	4.4564	-2.5	175.2	0.9	30.70	200.16	19.43	291.8	Vir
13 Apr 2017	13h06m25.59s	-05 21' 15.7"	5.4558	4.4575	-2.5	174.1	1.1	30.50	201.42	19.37	291.8	Vir
14 Apr 2017	13h05m57.19s	-05 18' 23.8"	5.4558	4.4589	-2.5	173.0	1.3	30.29	202.67	19.30	291.8	Vir
15 Apr 2017	13h05m28.90s	-05 15' 32.9"	5.4557	4.4606	-2.5	172.0	1.5	30.07	203.92	19.21	291.7	Vir
16 Apr 2017	13h05m00.74s	-05 12' 43.1"	5.4557	4.4626	-2.5	170.9	1.7	29.83	205.15	19.11	291.7	Vir
17 Apr 2017	13h04m32.73s	-05 09' 54.5"	5.4557	4.4649	-2.5	169.8	1.9	29.58	206.39	19.00	291.7	Vir
18 Apr 2017	13h04m04.89s	-05 07' 07.2"	5.4557	4.4675	-2.5	168.7	2.1	29.32	207.61	18.87	291.6	Vir
19 Apr 2017	13h03m37.23s	-05 04' 21.4"	5.4556	4.4704	-2.5	167.6	2.3	29.04	208.83	18.73	291.6	Vir
20 Apr 2017	13h03m09.78s	-05 01' 37.1"	5.4556	4.4736	-2.5	166.5	2.5	28.75	210.03	18.58	291.5	Vir
21 Apr 2017	13h02m42.55s	-04 58' 54.5"	5.4556	4.4771	-2.4	165.4	2.7	28.45	211.23	18.42	291.5	Vir
22 Apr 2017	13h02m15.57s	-04 56' 13.6"	5.4555	4.4809	-2.4	164.3	2.9	28.13	212.42	18.24	291.5	Vir
23 Apr 2017	13h01m48.84s	-04 53' 34.7"	5.4555	4.4850	-2.4	163.2	3.0	27.81	213.61	18.05	291.4	Vir
24 Apr 2017	13h01m22.40s	-04 50' 57.8"	5.4555	4.4894	-2.4	162.2	3.2	27.47	214.78	17.85	291.4	Vir
25 Apr 2017	13h00m56.25s	-04 48' 23.0"	5.4554	4.4940	-2.4	161.1	3.4	27.12	215.94	17.64	291.3	Vir
26 Apr 2017	13h00m30.42s	-04 45' 50.5"	5.4554	4.4990	-2.4	160.0	3.6	26.76	217.09	17.41	291.3	Vir
27 Apr 2017	13h00m04.92s	-04 43' 20.3"	5.4554	4.5042	-2.4	158.9	3.8	26.38	218.24	17.17	291.2	Vir
28 Apr 2017	12h59m39.78s	-04 40' 52.5"	5.4553	4.5098	-2.4	157.8	4.0	26.00	219.37	16.92	291.2	Vir
29 Apr 2017	12h59m15.00s	-04 38' 27.3"	5.4553	4.5156	-2.4	156.7	4.2	25.61	220.50	16.66	291.1	Vir
30 Apr 2017	12h58m50.61s	-04 36' 04.8"	5.4553	4.5216	-2.4	155.7	4.4	25.20	221.61	16.39	291.1	Vir
1 Mai 2017	12h58m26.63s	-04 33' 45.0"	5.4552	4.5280	-2.4	154.6	4.5	24.79	222.71	16.10	291.0	Vir
2 Mai 2017	12h58m03.06s	-04 31' 28.1"	5.4552	4.5346	-2.4	153.5	4.7	24.36	223.81	15.81	291.0	Vir
3 Mai 2017	12h57m39.91s	-04 29' 14.1"	5.4552	4.5415	-2.4	152.4	4.9	23.93	224.89	15.51	290.9	Vir
4 Mai 2017	12h57m17.22s	-04 27' 03.2"	5.4551	4.5486	-2.4	151.4	5.1	23.49	225.96	15.20	290.9	Vir
5 Mai 2017	12h56m54.98s	-04 24' 55.3"	5.4551	4.5560	-2.4	150.3	5.3	23.04	227.03	14.88	290.8	Vir
6 Mai 2017	12h56m33.21s	-04 22' 50.6"	5.4550	4.5637	-2.4	149.2	5.4	22.58	228.08	14.55	290.7	Vir
7 Mai 2017	12h56m11.92s	-04 20' 49.1"	5.4550	4.5716	-2.4	148.2	5.6	22.11	229.12	14.21	290.6	Vir
8 Mai 2017	12h55m51.12s	-04 18' 51.0"	5.4550	4.5798	-2.4	147.1	5.8	21.64	230.16	13.87	290.6	Vir
9 Mai 2017	12h55m30.83s	-04 16' 56.2"	5.4549	4.5882	-2.4	146.1	5.9	21.16	231.18	13.52	290.5	Vir
10 Mai 2017	12h55m11.05s	-04 15' 04.9"	5.4549	4.5968	-2.4	145.0	6.1	20.67	232.19	13.16	290.4	Vir
11 Mai 2017	12h54m51.79s	-04 13' 17.1"	5.4549	4.6057	-2.4	144.0	6.3	20.17	233.20	12.79	290.3	Vir
12 Mai 2017	12h54m33.07s	-04 11' 32.8"	5.4548	4.6148	-2.4	142.9	6.4	19.67	234.19	12.42	290.2	Vir
13 Mai 2017	12h54m14.89s	-04 09' 52.2"	5.4548	4.6242	-2.4	141.9	6.6	19.16	235.17	12.04	290.1	Vir
14 Mai 2017	12h53m57.26s	-04 08' 15.2"	5.4547	4.6337	-2.4	140.8	6.7	18.64	236.15	11.66	290.0	Vir
15 Mai 2017	12h53m40.20s	-04 06' 42.0"	5.4547	4.6435	-2.3	139.8	6.9	18.12	237.11	11.27	289.9	Vir
16 Mai 2017	12h53m23.70s	-04 05' 12.5"	5.4546	4.6535	-2.3	138.8	7.0	17.59	238.07	10.88	289.7	Vir
17 Mai 2017	12h53m07.78s	-04 03' 46.9"	5.4546	4.6638	-2.3	137.7	7.2	17.06	239.01	10.48	289.5	Vir
18 Mai 2017	12h52m52.45s	-04 02' 25.1"	5.4546	4.6742	-2.3	136.7	7.3	16.52	239.95	10.07	289.4	Vir
19 Mai 2017	12h52m37.72s	-04 01' 07.3"	5.4545	4.6848	-2.3	135.7	7.4	15.98	240.88	9.66	289.2	Vir
20 Mai 2017	12h52m23.59s	-03 59' 53.3"	5.4545	4.6957	-2.3	134.6	7.6	15.43	241.80	9.24	289.0	Vir
21 Mai 2017	12h52m10.06s	-03 58' 43.4"	5.4544	4.7067	-2.3	133.6	7.7	14.88	242.72	8.82	288.8	Vir
22 Mai 2017	12h51m57.15s	-03 57' 37.5"	5.4544	4.7180	-2.3	132.6	7.9	14.32	243.62	8.40	288.6	Vir
23 Mai 2017	12h51m44.87s	-03 56' 35.7"	5.4543	4.7294	-2.3	131.6	8.0	13.76	244.52	7.97	288.3	Vir
24 Mai 2017	12h51m33.22s	-03 55' 38.0"	5.4543	4.7411	-2.3	130.6	8.1	13.19	245.40	7.53	288.1	Vir
25 Mai 2017	12h51m22.20s	-03 54' 44.5"	5.4542	4.7529	-2.3	129.6	8.2	12.63	246.28	7.10	287.7	Vir
26 Mai 2017	12h51m11.83s	-03 53' 55.1"	5.4542	4.7648	-2.3	128.6	8.4	12.05	247.16	6.65	287.4	Vir
27 Mai 2017	12h51m02.10s	-03 53' 09.9"	5.4541	4.7770	-2.3	127.6	8.5	11.48	248.02	6.21	287.0	Vir
28 Mai 2017	12h50m53.02s	-03 52' 28.9"	5.4541	4.7893	-2.3	126.6	8.6	10.90	248.88	5.76	286.5	Vir
29 Mai 2017	12h50m44.60s	-03 51' 52.1"	5.4540	4.8018	-2.3	125.6	8.7	10.32	249.73	5.32	285.9	Vir
30 Mai 2017	12h50m36.84s	-03 51' 19.6"	5.4540	4.8145	-2.3	124.6	8.8	9.74	250.58	4.87	285.3	Vir

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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31 Mai 2017	12h50m29.74s	-03 50' 51.4"	5.4539	4.8273	-2.3	123.6	8.9	9.15	251.41	4.42	284.5	Vir
1 Jun 2017	12h50m23.30s	-03 50' 27.4"	5.4539	4.8402	-2.2	122.6	9.0	8.57	252.25	3.97	283.5	Vir
2 Jun 2017	12h50m17.53s	-03 50' 07.7"	5.4538	4.8533	-2.2	121.6	9.1	7.98	253.07	3.52	282.3	Vir
3 Jun 2017	12h50m12.42s	-03 49' 52.3"	5.4538	4.8666	-2.2	120.6	9.2	7.38	253.89	3.07	280.7	Vir
4 Jun 2017	12h50m07.97s	-03 49' 41.1"	5.4537	4.8800	-2.2	119.7	9.3	6.79	254.70	2.63	278.6	Vir
5 Jun 2017	12h50m04.19s	-03 49' 34.2"	5.4537	4.8935	-2.2	118.7	9.4	6.20	255.51	2.19	275.6	Vir
6 Jun 2017	12h50m01.07s	-03 49' 31.6"	5.4536	4.9071	-2.2	117.7	9.5	5.60	256.31	1.76	271.2	Vir
7 Jun 2017	12h49m58.62s	-03 49' 33.2"	5.4536	4.9209	-2.2	116.8	9.6	5.00	257.11	1.35	264.1	Vir
8 Jun 2017	12h49m56.83s	-03 49' 39.0"	5.4535	4.9347	-2.2	115.8	9.6	4.40	257.90	0.98	251.1	Vir
9 Jun 2017	12h49m55.71s	-03 49' 49.1"	5.4535	4.9487	-2.2	114.8	9.7	3.80	258.69	0.70	225.8	Vir
10 Jun 2017	12h49m55.25s	-03 50' 03.4"	5.4534	4.9628	-2.2	113.9	9.8	3.20	259.47	0.67	187.4	Vir
11 Jun 2017	12h49m55.44s	-03 50' 21.9"	5.4534	4.9770	-2.2	112.9	9.9	2.60	260.25	0.90	158.6	Vir
12 Jun 2017	12h49m56.30s	-03 50' 44.6"	5.4533	4.9914	-2.2	112.0	9.9	2.00	261.02	1.26	143.7	Vir
13 Jun 2017	12h49m57.82s	-03 51' 11.5"	5.4533	5.0058	-2.2	111.0	10.0	1.39	261.79	1.66	135.7	Vir
14 Jun 2017	12h50m00.00s	-03 51' 42.5"	5.4532	5.0203	-2.2	110.1	10.1	0.79	262.56	2.08	130.9	Vir
15 Jun 2017	12h50m02.83s	-03 52' 17.7"	5.4531	5.0349	-2.2	109.2	10.1	0.19	263.32	2.51	127.7	Vir
16 Jun 2017	12h50m06.32s	-03 52' 57.0"	5.4531	5.0495	-2.1	108.2	10.2	-0.42	264.07	2.95	125.4	Vir
17 Jun 2017	12h50m10.46s	-03 53' 40.5"	5.4530	5.0643	-2.1	107.3	10.2	-1.02	264.83	3.38	123.7	Vir
18 Jun 2017	12h50m15.26s	-03 54' 28.0"	5.4530	5.0791	-2.1	106.3	10.3	-1.62	265.58	3.82	122.4	Vir
19 Jun 2017	12h50m20.70s	-03 55' 19.6"	5.4529	5.0940	-2.1	105.4	10.3	-2.23	266.33	4.26	121.4	Vir
20 Jun 2017	12h50m26.80s	-03 56' 15.3"	5.4529	5.1090	-2.1	104.5	10.4	-2.83	267.07	4.70	120.6	Vir
21 Jun 2017	12h50m33.54s	-03 57' 15.0"	5.4528	5.1241	-2.1	103.6	10.4	-3.43	267.81	5.13	119.9	Vir
22 Jun 2017	12h50m40.93s	-03 58' 18.8"	5.4527	5.1392	-2.1	102.7	10.5	-4.04	268.55	5.57	119.3	Vir
23 Jun 2017	12h50m48.96s	-03 59' 26.5"	5.4527	5.1543	-2.1	101.7	10.5	-4.64	269.29	6.00	118.8	Vir
24 Jun 2017	12h50m57.63s	-04 00' 38.3"	5.4526	5.1695	-2.1	100.8	10.6	-5.24	270.03	6.44	118.3	Vir
25 Jun 2017	12h51m06.95s	-04 01' 54.0"	5.4525	5.1848	-2.1	99.9	10.6	-5.84	270.76	6.87	118.0	Vir
26 Jun 2017	12h51m16.89s	-04 03' 13.6"	5.4525	5.2001	-2.1	99.0	10.6	-6.44	271.49	7.30	117.6	Vir
27 Jun 2017	12h51m27.46s	-04 04' 37.1"	5.4524	5.2154	-2.1	98.1	10.6	-7.04	272.22	7.72	117.3	Vir
28 Jun 2017	12h51m38.66s	-04 06' 04.5"	5.4524	5.2308	-2.1	97.2	10.7	-7.63	272.95	8.14	117.1	Vir
29 Jun 2017	12h51m50.48s	-04 07' 35.7"	5.4523	5.2462	-2.1	96.3	10.7	-8.23	273.67	8.56	116.8	Vir
30 Jun 2017	12h52m02.92s	-04 09' 10.7"	5.4522	5.2616	-2.1	95.4	10.7	-8.82	274.40	8.98	116.6	Vir
1 Jul 2017	12h52m15.97s	-04 10' 49.5"	5.4522	5.2771	-2.1	94.5	10.7	-9.42	275.12	9.39	116.4	Vir
2 Jul 2017	12h52m29.62s	-04 12' 31.9"	5.4521	5.2926	-2.0	93.6	10.7	-10.01	275.84	9.80	116.2	Vir
3 Jul 2017	12h52m43.87s	-04 14' 18.1"	5.4520	5.3080	-2.0	92.7	10.7	-10.60	276.57	10.20	116.1	Vir
4 Jul 2017	12h52m58.72s	-04 16' 07.9"	5.4520	5.3235	-2.0	91.9	10.7	-11.19	277.29	10.60	115.9	Vir
5 Jul 2017	12h53m14.16s	-04 18' 01.2"	5.4519	5.3390	-2.0	91.0	10.7	-11.78	278.01	11.00	115.8	Vir
6 Jul 2017	12h53m30.18s	-04 19' 58.2"	5.4518	5.3545	-2.0	90.1	10.7	-12.37	278.73	11.39	115.6	Vir
7 Jul 2017	12h53m46.78s	-04 21' 58.6"	5.4518	5.3700	-2.0	89.2	10.7	-12.95	279.45	11.78	115.5	Vir
8 Jul 2017	12h54m03.96s	-04 24' 02.6"	5.4517	5.3855	-2.0	88.3	10.7	-13.53	280.17	12.17	115.4	Vir
9 Jul 2017	12h54m21.70s	-04 26' 09.9"	5.4516	5.4010	-2.0	87.5	10.7	-14.11	280.89	12.55	115.3	Vir
10 Jul 2017	12h54m40.01s	-04 28' 20.7"	5.4516	5.4165	-2.0	86.6	10.7	-14.69	281.61	12.93	115.2	Vir
11 Jul 2017	12h54m58.88s	-04 30' 34.8"	5.4515	5.4320	-2.0	85.7	10.7	-15.27	282.33	13.31	115.1	Vir
12 Jul 2017	12h55m18.31s	-04 32' 52.3"	5.4514	5.4474	-2.0	84.9	10.7	-15.84	283.06	13.68	115.0	Vir
13 Jul 2017	12h55m38.28s	-04 35' 13.0"	5.4514	5.4628	-2.0	84.0	10.7	-16.42	283.78	14.05	114.9	Vir
14 Jul 2017	12h55m58.80s	-04 37' 37.0"	5.4513	5.4782	-2.0	83.2	10.7	-16.99	284.50	14.42	114.8	Vir
15 Jul 2017	12h56m19.86s	-04 40' 04.2"	5.4512	5.4936	-2.0	82.3	10.6	-17.55	285.23	14.78	114.7	Vir
16 Jul 2017	12h56m41.45s	-04 42' 34.6"	5.4511	5.5089	-2.0	81.4	10.6	-18.12	285.96	15.14	114.7	Vir
17 Jul 2017	12h57m03.58s	-04 45' 08.2"	5.4511	5.5243	-2.0	80.6	10.6	-18.68	286.69	15.49	114.6	Vir
18 Jul 2017	12h57m26.24s	-04 47' 44.8"	5.4510	5.5395	-1.9	79.7	10.6	-19.24	287.41	15.85	114.5	Vir
19 Jul 2017	12h57m49.42s	-04 50' 24.5"	5.4509	5.5548	-1.9	78.9	10.5	-19.80	288.15	16.20	114.4	Vir
20 Jul 2017	12h58m13.12s	-04 53' 07.2"	5.4508	5.5699	-1.9	78.0	10.5	-20.35	288.88	16.54	114.4	Vir
21 Jul 2017	12h58m37.33s	-04 55' 52.9"	5.4508	5.5851	-1.9	77.2	10.5	-20.91	289.62	16.89	114.3	Vir
22 Jul 2017	12h59m02.05s	-04 58' 41.6"	5.4507	5.6002	-1.9	76.4	10.4	-21.46	290.35	17.23	114.2	Vir
23 Jul 2017	12h59m27.28s	-05 01' 33.3"	5.4506	5.6152	-1.9	75.5	10.4	-22.00	291.09	17.56	114.2	Vir
24 Jul 2017	12h59m53.01s	-05 04' 27.7"	5.4505	5.6302	-1.9	74.7	10.4	-22.55	291.84	17.90	114.1	Vir
25 Jul 2017	13h00m19.23s	-05 07' 25.1"	5.4505	5.6451	-1.9	73.8	10.3	-23.09	292.58	18.22	114.1	Vir
26 Jul 2017	13h00m45.94s	-05 10' 25.2"	5.4504	5.6599	-1.9	73.0	10.3	-23.62	293.33	18.55	114.0	Vir
27 Jul 2017	13h01m13.13s	-05 13' 28.1"	5.4503	5.6747	-1.9	72.2	10.2	-24.16	294.08	18.87	114.0	Vir
28 Jul 2017	13h01m40.79s	-05 16' 33.6"	5.4502	5.6894	-1.9	71.3	10.2	-24.69	294.83	19.18	113.9	Vir
29 Jul 2017	13h02m08.92s	-05 19' 41.9"	5.4502	5.7040	-1.9	70.5	10.1	-25.22	295.59	19.49	113.9	Vir
30 Jul 2017	13h02m37.52s	-05 22' 52.7"	5.4501	5.7186	-1.9	69.7	10.1	-25.74	296.35	19.80	113.8	Vir
31 Jul 2017	13h03m06.57s	-05 26' 06.1"	5.4500	5.7330	-1.9	68.9	10.0	-26.26	297.12	20.10	113.8	Vir
1 Aug 2017	13h03m36.07s	-05 29' 22.1"	5.4499	5.7474	-1.9	68.0	9.9	-26.78	297.89	20.40	113.7	Vir
2 Aug 2017	13h04m06.02s	-05 32' 40.5"	5.4498	5.7617	-1.9	67.2	9.9	-27.29	298.66	20.69	113.7	Vir
3 Aug 2017	13h04m36.41s	-05 36' 01.3"	5.4498	5.7759	-1.9	66.4	9.8	-27.80	299.43	20.98	113.6	Vir
4 Aug 2017	13h05m07.23s	-05 39' 24.6"	5.4497	5.7901	-1.9	65.6	9.8	-28.31	300.22	21.26	113.6	Vir
5 Aug 2017	13h05m38.48s	-05 42' 50.1"	5.4496	5.8041	-1.9	64.8	9.7	-28.81	301.00	21.54	113.5	Vir
6 Aug 2017	13h06m10.15s	-05 46' 18.0"	5.4495	5.8180	-1.8	64.0	9.6	-29.31	301.79	21.82	113.5	Vir
7 Aug 2017	13h06m42.24s	-05 49' 48.2"	5.4494	5.8318	-1.8	63.1	9.6	-29.80	302.58	22.10	113.4	Vir
8 Aug 2017	13h07m14.74s	-05 53' 20.5"	5.4494	5.8456	-1.8	62.3	9.5	-30.29	303.38	22.37	113.4	Vir
9 Aug 2017	13h07m47.64s	-05 56' 55.1"	5.4493	5.8592	-1.8	61.5	9.4	-30.78	304.19	22.63	113.4	Vir
10 Aug 2017	13h08m20.95s	-06 00' 31.8"	5.4492	5.8727	-1.8	60.7	9.3	-31.26	305.00	22.89	113.3	Vir
11 Aug 2017	13h08m54.66s	-06 04' 10.5"	5.4491	5.8861	-1.8	59.9	9.3	-31.74	305.81	23.15	113.3	Vir
12 Aug 2017	13h09m28.76s	-06 07' 51.4"	5.4490	5.8994	-1.8	59.1	9.2	-32.21	306.63	23.41	113.2	Vir
13 Aug 2017	13h10m03.25s	-06 11' 34.3"	5.4489	5.9126	-1.8	58.3	9.1	-32.68	307.46	23.66	113.2	Vir

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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14 Aug 2017	13h10m38.13s	-06 15' 19.1"	5.4488	5.9257	-1.8	57.5	9.0	-33.14	308.29	23.91	113.1	Vir
15 Aug 2017	13h11m13.39s	-06 19' 06.0"	5.4488	5.9386	-1.8	56.7	8.9	-33.60	309.12	24.16	113.1	Vir
16 Aug 2017	13h11m49.02s	-06 22' 54.7"	5.4487	5.9514	-1.8	55.9	8.9	-34.05	309.97	24.40	113.1	Vir
17 Aug 2017	13h12m25.02s	-06 26' 45.4"	5.4486	5.9642	-1.8	55.1	8.8	-34.50	310.81	24.64	113.0	Vir
18 Aug 2017	13h13m04.98s	-06 30' 37.8"	5.4485	5.9767	-1.8	54.3	8.7	-34.95	311.67	24.88	113.0	Vir
19 Aug 2017	13h13m38.13s	-06 34' 32.1"	5.4484	5.9892	-1.8	53.5	8.6	-35.38	312.53	25.11	112.9	Vir
20 Aug 2017	13h14m15.22s	-06 38' 28.2"	5.4483	6.0015	-1.8	52.7	8.5	-35.82	313.40	25.34	112.9	Vir
21 Aug 2017	13h14m52.66s	-06 42' 26.0"	5.4482	6.0137	-1.8	51.9	8.4	-36.25	314.27	25.57	112.9	Vir
22 Aug 2017	13h15m34.64s	-06 46' 25.5"	5.4481	6.0258	-1.8	51.1	8.3	-36.67	315.15	25.79	112.8	Vir
23 Aug 2017	13h16m08.59s	-06 50' 26.6"	5.4481	6.0377	-1.8	50.3	8.2	-37.09	316.04	26.01	112.8	Vir
24 Aug 2017	13h16m47.05s	-06 54' 29.3"	5.4480	6.0494	-1.8	49.5	8.1	-37.50	316.94	26.23	112.7	Vir
25 Aug 2017	13h17m25.85s	-06 58' 33.6"	5.4479	6.0611	-1.8	48.8	8.0	-37.90	317.84	26.44	112.7	Vir
26 Aug 2017	13h18m04.98s	-07 02' 39.4"	5.4478	6.0725	-1.8	48.0	7.9	-38.30	318.75	26.64	112.7	Vir
27 Aug 2017	13h18m44.42s	-07 06' 46.7"	5.4477	6.0839	-1.8	47.2	7.8	-38.69	319.66	26.84	112.6	Vir
28 Aug 2017	13h19m24.18s	-07 10' 55.5"	5.4476	6.0951	-1.8	46.4	7.7	-39.08	320.58	27.04	112.6	Vir
29 Aug 2017	13h20m04.24s	-07 15' 05.6"	5.4475	6.1061	-1.8	45.6	7.6	-39.46	321.51	27.24	112.5	Vir
30 Aug 2017	13h20m44.61s	-07 19' 17.0"	5.4474	6.1170	-1.7	44.8	7.5	-39.84	322.45	27.43	112.5	Vir
31 Aug 2017	13h21m25.28s	-07 23' 29.8"	5.4473	6.1277	-1.7	44.0	7.4	-40.21	323.40	27.61	112.5	Vir
1 Sep 2017	13h22m06.23s	-07 27' 43.8"	5.4472	6.1383	-1.7	43.2	7.3	-40.57	324.35	27.80	112.4	Vir
2 Sep 2017	13h22m47.48s	-07 31' 59.1"	5.4471	6.1487	-1.7	42.5	7.2	-40.92	325.31	27.97	112.4	Vir
3 Sep 2017	13h23m29.01s	-07 36' 15.6"	5.4470	6.1589	-1.7	41.7	7.1	-41.27	326.28	28.15	112.3	Vir
4 Sep 2017	13h24m10.82s	-07 40' 33.2"	5.4469	6.1690	-1.7	40.9	7.0	-41.61	327.26	28.32	112.3	Vir
5 Sep 2017	13h24m52.90s	-07 44' 51.9"	5.4468	6.1789	-1.7	40.1	6.9	-41.95	328.24	28.49	112.3	Vir
6 Sep 2017	13h25m35.25s	-07 49' 11.7"	5.4467	6.1887	-1.7	39.3	6.7	-42.27	329.23	28.66	112.2	Vir
7 Sep 2017	13h26m17.86s	-07 53' 32.5"	5.4466	6.1983	-1.7	38.6	6.6	-42.59	330.23	28.82	112.2	Vir
8 Sep 2017	13h27m00.74s	-07 57' 54.3"	5.4466	6.2077	-1.7	37.8	6.5	-42.91	331.23	28.98	112.1	Vir
9 Sep 2017	13h27m43.88s	-08 02' 17.2"	5.4465	6.2170	-1.7	37.0	6.4	-43.21	332.25	29.14	112.1	Vir
10 Sep 2017	13h28m27.26s	-08 06' 40.9"	5.4464	6.2260	-1.7	36.2	6.3	-43.51	333.27	29.29	112.1	Vir
11 Sep 2017	13h29m10.90s	-08 11' 05.6"	5.4463	6.2349	-1.7	35.5	6.2	-43.80	334.30	29.45	112.0	Vir
12 Sep 2017	13h29m54.79s	-08 15' 31.1"	5.4462	6.2437	-1.7	34.7	6.0	-44.08	335.34	29.60	112.0	Vir
13 Sep 2017	13h30m38.91s	-08 19' 57.4"	5.4461	6.2522	-1.7	33.9	5.9	-44.35	336.38	29.74	111.9	Vir
14 Sep 2017	13h31m23.28s	-08 24' 24.6"	5.4460	6.2606	-1.7	33.1	5.8	-44.62	337.43	29.89	111.9	Vir
15 Sep 2017	13h32m07.87s	-08 28' 52.6"	5.4459	6.2688	-1.7	32.3	5.7	-44.88	338.49	30.03	111.9	Vir
16 Sep 2017	13h32m52.70s	-08 33' 21.2"	5.4458	6.2769	-1.7	31.6	5.5	-45.13	339.55	30.16	111.8	Vir
17 Sep 2017	13h33m37.76s	-08 37' 50.6"	5.4457	6.2847	-1.7	30.8	5.4	-45.37	340.63	30.30	111.8	Vir
18 Sep 2017	13h34m23.03s	-08 42' 20.7"	5.4456	6.2924	-1.7	30.0	5.3	-45.60	341.70	30.43	111.7	Vir
19 Sep 2017	13h35m08.52s	-08 46' 51.4"	5.4454	6.2998	-1.7	29.3	5.2	-45.82	342.79	30.55	111.7	Vir
20 Sep 2017	13h35m54.22s	-08 51' 22.6"	5.4453	6.3071	-1.7	28.5	5.0	-46.04	343.88	30.68	111.6	Vir
21 Sep 2017	13h36m40.13s	-08 55' 54.5"	5.4452	6.3142	-1.7	27.7	4.9	-46.24	344.98	30.80	111.6	Vir
22 Sep 2017	13h37m26.24s	-09 00' 26.8"	5.4451	6.3211	-1.7	26.9	4.8	-46.44	346.08	30.91	111.6	Vir
23 Sep 2017	13h38m12.54s	-09 04' 59.6"	5.4450	6.3278	-1.7	26.2	4.7	-46.63	347.19	31.02	111.5	Vir
24 Sep 2017	13h38m59.03s	-09 09' 32.9"	5.4449	6.3343	-1.7	25.4	4.5	-46.80	348.31	31.13	111.5	Vir
25 Sep 2017	13h39m45.71s	-09 14' 06.5"	5.4448	6.3406	-1.7	24.6	4.4	-46.97	349.43	31.24	111.4	Vir
26 Sep 2017	13h40m32.57s	-09 18' 40.5"	5.4447	6.3468	-1.7	23.8	4.3	-47.13	350.55	31.34	111.4	Vir
27 Sep 2017	13h41m19.60s	-09 23' 14.8"	5.4446	6.3527	-1.7	23.1	4.1	-47.29	351.68	31.43	111.3	Vir
28 Sep 2017	13h42m06.80s	-09 27' 49.5"	5.4445	6.3584	-1.7	22.3	4.0	-47.43	352.82	31.53	111.3	Vir
29 Sep 2017	13h42m54.17s	-09 32' 24.3"	5.4444	6.3639	-1.7	21.5	3.9	-47.56	353.96	31.62	111.2	Vir
30 Sep 2017	13h43m41.70s	-09 36' 59.4"	5.4443	6.3693	-1.7	20.8	3.7	-47.68	355.10	31.71	111.2	Vir
1 Okt 2017	13h44m29.38s	-09 41' 34.6"	5.4442	6.3744	-1.7	20.0	3.6	-47.79	356.25	31.79	111.2	Vir
2 Okt 2017	13h45m17.22s	-09 46' 10.0"	5.4441	6.3793	-1.7	19.2	3.5	-47.90	357.40	31.87	111.1	Vir
3 Okt 2017	13h46m05.21s	-09 50' 45.5"	5.4440	6.3840	-1.7	18.4	3.3	-47.99	358.55	31.95	111.1	Vir
4 Okt 2017	13h46m53.33s	-09 55' 21.1"	5.4439	6.3886	-1.7	17.7	3.2	-48.07	359.70	32.03	111.0	Vir
5 Okt 2017	13h47m41.60s	-09 59' 56.7"	5.4437	6.3929	-1.7	16.9	3.1	-48.15	0.86	32.10	111.0	Vir
6 Okt 2017	13h48m30.00s	-10 04' 32.4"	5.4436	6.3970	-1.7	16.1	2.9	-48.21	2.02	32.17	110.9	Vir
7 Okt 2017	13h49m18.54s	-10 09' 08.0"	5.4435	6.4009	-1.7	15.4	2.8	-48.27	3.18	32.24	110.9	Vir
8 Okt 2017	13h50m07.20s	-10 13' 43.6"	5.4434	6.4046	-1.7	14.6	2.6	-48.31	4.34	32.30	110.8	Vir
9 Okt 2017	13h50m55.99s	-10 18' 19.0"	5.4433	6.4081	-1.7	13.8	2.5	-48.35	5.50	32.36	110.8	Vir
10 Okt 2017	13h51m44.90s	-10 22' 54.4"	5.4432	6.4114	-1.7	13.0	2.4	-48.37	6.67	32.42	110.7	Vir
11 Okt 2017	13h52m33.93s	-10 27' 29.7"	5.4431	6.4145	-1.7	12.3	2.2	-48.39	7.83	32.48	110.7	Vir
12 Okt 2017	13h53m23.07s	-10 32' 04.8"	5.4430	6.4174	-1.7	11.5	2.1	-48.39	8.99	32.53	110.6	Vir
13 Okt 2017	13h54m12.32s	-10 36' 39.7"	5.4428	6.4200	-1.7	10.7	2.0	-48.39	10.15	32.58	110.6	Vir
14 Okt 2017	13h55m01.67s	-10 41' 14.4"	5.4427	6.4225	-1.7	10.0	1.8	-48.37	11.31	32.63	110.5	Vir
15 Okt 2017	13h55m51.12s	-10 45' 48.8"	5.4426	6.4247	-1.7	9.2	1.7	-48.35	12.47	32.68	110.5	Vir
16 Okt 2017	13h56m40.67s	-10 50' 23.0"	5.4425	6.4268	-1.7	8.4	1.5	-48.32	13.62	32.72	110.4	Vir
17 Okt 2017	13h57m30.31s	-10 54' 56.8"	5.4424	6.4286	-1.7	7.7	1.4	-48.27	14.77	32.75	110.4	Vir
18 Okt 2017	13h58m20.03s	-10 59' 30.2"	5.4423	6.4302	-1.7	6.9	1.3	-48.22	15.92	32.79	110.3	Vir
19 Okt 2017	13h59m09.84s	-11 04' 03.3"	5.4422	6.4316	-1.7	6.1	1.1	-48.16	17.07	32.82	110.3	Vir
20 Okt 2017	13h59m59.72s	-11 08' 36.0"	5.4420	6.4328	-1.7	5.4	1.0	-48.09	18.22	32.84	110.2	Vir
21 Okt 2017	14h00m49.66s	-11 13' 08.1"	5.4419	6.4337	-1.7	4.6	0.8	-48.01	19.35	32.87	110.2	Vir
22 Okt 2017	14h01m39.67s	-11 17' 39.8"	5.4418	6.4345	-1.7	3.8	0.7	-47.92	20.49	32.89	110.1	Vir
23 Okt 2017	14h02m29.74s	-11 22' 11.0"	5.4417	6.4350	-1.7	3.1	0.6	-47.82	21.62	32.90	110.1	Vir
24 Okt 2017	14h03m19.86s	-11 26' 41.6"	5.4416	6.4353	-1.7	2.4	0.4	-47.71	22.75	32.92	110.0	Vir
25 Okt 2017	14h04m10.03s	-11 31' 11.6"	5.4414	6.4354	-1.7	1.7	0.3	-47.60	23.87	32.92	110.0	Vir
26 Okt 2017	14h05m00.25s	-11 35' 41.0"	5.4413	6.4353	-1.7	1.2	0.2	-47.47	24.99	32.93	109.9	Vir
27 Okt 2017	14h05m50.50s	-11 40' 09.7"	5.4412	6.4349	-1.7	1.0	0.2	-47.34	26.10	32.93	109.9	Vir

EPHEMERIDE 2017 – JUPITER

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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28 Okt 2017	14h06m40.78s	-11 44' 37.7"	5.4411	6.4344	-1.7	1.4	0.3	-47.19	27.20	32.93	109.8	Vir
29 Okt 2017	14h07m31.09s	-11 49' 05.0"	5.4410	6.4336	-1.7	2.0	0.4	-47.04	28.30	32.93	109.8	Vir
30 Okt 2017	14h08m21.43s	-11 53' 31.6"	5.4408	6.4326	-1.7	2.7	0.5	-46.88	29.39	32.92	109.7	Vir
31 Okt 2017	14h09m11.78s	-11 57' 57.3"	5.4407	6.4314	-1.7	3.5	0.6	-46.71	30.48	32.91	109.7	Vir
1 Nov 2017	14h10m02.15s	-12 02' 22.3"	5.4406	6.4300	-1.7	4.2	0.8	-46.53	31.56	32.89	109.6	Vir
2 Nov 2017	14h10m52.52s	-12 06' 46.4"	5.4405	6.4283	-1.7	5.0	0.9	-46.35	32.63	32.88	109.6	Vir
3 Nov 2017	14h11m42.91s	-12 11' 09.7"	5.4403	6.4265	-1.7	5.7	1.0	-46.16	33.69	32.86	109.5	Vir
4 Nov 2017	14h12m33.29s	-12 15' 32.0"	5.4402	6.4244	-1.7	6.5	1.2	-45.95	34.75	32.83	109.5	Vir
5 Nov 2017	14h13m23.67s	-12 19' 53.4"	5.4401	6.4222	-1.7	7.3	1.3	-45.75	35.80	32.81	109.4	Vir
6 Nov 2017	14h14m14.04s	-12 24' 13.9"	5.4400	6.4197	-1.7	8.1	1.5	-45.53	36.85	32.78	109.3	Vir
7 Nov 2017	14h15m04.40s	-12 28' 33.5"	5.4398	6.4170	-1.7	8.9	1.6	-45.31	37.88	32.75	109.3	Vir
8 Nov 2017	14h15m54.74s	-12 32' 52.0"	5.4397	6.4140	-1.7	9.6	1.7	-45.07	38.91	32.72	109.2	Vir
9 Nov 2017	14h16m45.07s	-12 37' 09.5"	5.4396	6.4109	-1.7	10.4	1.9	-44.84	39.93	32.68	109.2	Vir
10 Nov 2017	14h17m35.36s	-12 41' 26.0"	5.4395	6.4075	-1.7	11.2	2.0	-44.59	40.94	32.64	109.1	Vir
11 Nov 2017	14h18m25.63s	-12 45' 41.4"	5.4393	6.4040	-1.7	12.0	2.2	-44.34	41.95	32.60	109.1	Vir
12 Nov 2017	14h19m15.86s	-12 49' 55.7"	5.4392	6.4002	-1.7	12.8	2.3	-44.08	42.94	32.55	109.0	Vir
13 Nov 2017	14h20m06.95s	-12 54' 08.9"	5.4391	6.3962	-1.7	13.6	2.4	-43.81	43.93	32.50	109.0	Vir
14 Nov 2017	14h20m56.19s	-12 58' 20.9"	5.4390	6.3920	-1.7	14.4	2.6	-43.54	44.91	32.44	108.9	Vir
15 Nov 2017	14h21m46.28s	-13 02' 31.8"	5.4388	6.3876	-1.7	15.1	2.7	-43.26	45.88	32.38	108.8	Lib
16 Nov 2017	14h22m36.31s	-13 06' 41.4"	5.4387	6.3829	-1.7	15.9	2.9	-42.98	46.85	32.32	108.8	Lib
17 Nov 2017	14h23m26.27s	-13 10' 49.8"	5.4386	6.3781	-1.7	16.7	3.0	-42.69	47.81	32.26	108.7	Lib
18 Nov 2017	14h24m16.16s	-13 14' 57.0"	5.4384	6.3730	-1.7	17.5	3.1	-42.39	48.75	32.19	108.7	Lib
19 Nov 2017	14h25m05.97s	-13 19' 02.8"	5.4383	6.3678	-1.7	18.3	3.3	-42.08	49.70	32.11	108.6	Lib
20 Nov 2017	14h25m55.70s	-13 23' 07.3"	5.4382	6.3623	-1.7	19.1	3.4	-41.78	50.63	32.03	108.6	Lib
21 Nov 2017	14h26m45.34s	-13 27' 10.4"	5.4380	6.3566	-1.7	19.9	3.5	-41.46	51.55	31.95	108.5	Lib
22 Nov 2017	14h27m34.88s	-13 31' 12.2"	5.4379	6.3507	-1.7	20.7	3.7	-41.14	52.47	31.87	108.4	Lib
23 Nov 2017	14h28m24.32s	-13 35' 12.5"	5.4378	6.3446	-1.7	21.5	3.8	-40.81	53.38	31.78	108.4	Lib
24 Nov 2017	14h29m13.65s	-13 39' 11.4"	5.4376	6.3382	-1.7	22.3	4.0	-40.48	54.28	31.68	108.3	Lib
25 Nov 2017	14h30m02.86s	-13 43' 08.8"	5.4375	6.3317	-1.7	23.1	4.1	-40.15	55.18	31.59	108.3	Lib
26 Nov 2017	14h30m51.96s	-13 47' 04.7"	5.4374	6.3250	-1.7	23.9	4.2	-39.80	56.07	31.49	108.2	Lib
27 Nov 2017	14h31m40.93s	-13 50' 59.2"	5.4372	6.3181	-1.7	24.7	4.4	-39.46	56.95	31.38	108.1	Lib
28 Nov 2017	14h32m29.76s	-13 54' 52.0"	5.4371	6.3109	-1.7	25.5	4.5	-39.11	57.82	31.27	108.1	Lib
29 Nov 2017	14h33m18.46s	-13 58' 43.3"	5.4370	6.3036	-1.7	26.3	4.6	-38.75	58.68	31.16	108.0	Lib
30 Nov 2017	14h34m07.02s	-14 02' 33.0"	5.4368	6.2961	-1.7	27.1	4.7	-38.39	59.54	31.05	108.0	Lib
1 Dez 2017	14h34m55.43s	-14 06' 21.1"	5.4367	6.2883	-1.7	27.9	4.9	-38.02	60.40	30.93	107.9	Lib
2 Dez 2017	14h35m43.68s	-14 10' 07.6"	5.4366	6.2804	-1.7	28.7	5.0	-37.65	61.24	30.81	107.9	Lib
3 Dez 2017	14h36m31.78s	-14 13' 52.4"	5.4364	6.2723	-1.7	29.5	5.1	-37.28	62.08	30.69	107.8	Lib
4 Dez 2017	14h37m19.71s	-14 17' 35.5"	5.4363	6.2640	-1.7	30.4	5.3	-36.90	62.91	30.56	107.7	Lib
5 Dez 2017	14h38m07.47s	-14 21' 16.9"	5.4362	6.2554	-1.7	31.2	5.4	-36.52	63.73	30.43	107.7	Lib
6 Dez 2017	14h38m55.06s	-14 24' 56.7"	5.4360	6.2467	-1.7	32.0	5.5	-36.13	64.55	30.30	107.6	Lib
7 Dez 2017	14h39m42.47s	-14 28' 34.7"	5.4359	6.2379	-1.7	32.8	5.6	-35.74	65.37	30.16	107.6	Lib
8 Dez 2017	14h40m29.69s	-14 32' 11.0"	5.4357	6.2288	-1.7	33.6	5.8	-35.34	66.17	30.02	107.5	Lib
9 Dez 2017	14h41m16.72s	-14 35' 45.5"	5.4356	6.2195	-1.7	34.4	5.9	-34.95	66.97	29.87	107.4	Lib
10 Dez 2017	14h42m03.55s	-14 39' 18.2"	5.4355	6.2100	-1.7	35.2	6.0	-34.54	67.77	29.72	107.4	Lib
11 Dez 2017	14h42m50.17s	-14 42' 49.1"	5.4353	6.2004	-1.7	36.1	6.1	-34.14	68.56	29.57	107.3	Lib
12 Dez 2017	14h43m36.58s	-14 46' 18.2"	5.4352	6.1906	-1.7	36.9	6.2	-33.73	69.34	29.41	107.3	Lib
13 Dez 2017	14h44m22.77s	-14 49' 45.4"	5.4350	6.1806	-1.7	37.7	6.4	-33.32	70.12	29.25	107.2	Lib
14 Dez 2017	14h45m08.73s	-14 53' 10.7"	5.4349	6.1704	-1.7	38.5	6.5	-32.90	70.89	29.08	107.1	Lib
15 Dez 2017	14h45m54.45s	-14 56' 34.1"	5.4347	6.1600	-1.7	39.3	6.6	-32.48	71.66	28.91	107.1	Lib
16 Dez 2017	14h46m39.93s	-14 59' 55.6"	5.4346	6.1494	-1.7	40.2	6.7	-32.06	72.42	28.74	107.0	Lib
17 Dez 2017	14h47m25.16s	-15 03' 15.1"	5.4345	6.1387	-1.7	41.0	6.8	-31.63	73.18	28.56	107.0	Lib
18 Dez 2017	14h48m10.13s	-15 06' 32.7"	5.4343	6.1278	-1.8	41.8	6.9	-31.20	73.93	28.37	106.9	Lib
19 Dez 2017	14h48m54.84s	-15 09' 48.3"	5.4342	6.1167	-1.8	42.7	7.0	-30.77	74.68	28.18	106.8	Lib
20 Dez 2017	14h49m39.27s	-15 13' 01.8"	5.4340	6.1055	-1.8	43.5	7.2	-30.34	75.42	27.99	106.8	Lib
21 Dez 2017	14h50m23.43s	-15 16' 13.3"	5.4339	6.0941	-1.8	44.3	7.3	-29.90	76.16	27.79	106.7	Lib
22 Dez 2017	14h51m07.30s	-15 19' 22.7"	5.4337	6.0825	-1.8	45.2	7.4	-29.46	76.90	27.59	106.7	Lib
23 Dez 2017	14h51m50.87s	-15 22' 30.1"	5.4336	6.0707	-1.8	46.0	7.5	-29.02	77.63	27.39	106.6	Lib
24 Dez 2017	14h52m34.14s	-15 25' 35.3"	5.4334	6.0588	-1.8	46.8	7.6	-28.57	78.35	27.17	106.5	Lib
25 Dez 2017	14h53m17.11s	-15 28' 38.5"	5.4333	6.0468	-1.8	47.7	7.7	-28.12	79.08	26.96	106.5	Lib
26 Dez 2017	14h53m59.76s	-15 31' 39.5"	5.4331	6.0345	-1.8	48.5	7.8	-27.67	79.80	26.74	106.4	Lib
27 Dez 2017	14h54m42.08s	-15 34' 38.3"	5.4330	6.0222	-1.8	49.4	7.9	-27.22	80.51	26.52	106.4	Lib
28 Dez 2017	14h55m24.08s	-15 37' 35.0"	5.4328	6.0096	-1.8	50.2	8.0	-26.76	81.23	26.29	106.3	Lib
29 Dez 2017	14h56m05.74s	-15 40' 29.4"	5.4327	5.9970	-1.8	51.0	8.1	-26.31	81.94	26.06	106.2	Lib
30 Dez 2017	14h56m47.06s	-15 43' 21.7"	5.4325	5.9841	-1.8	51.9	8.2	-25.85	82.64	25.83	106.2	Lib
31 Dez 2017	14h57m28.03s	-15 46' 11.8"	5.4324	5.9712	-1.8	52.7	8.3	-25.38	83.35	25.59	106.1	Lib
1 Jan 2018	14h58m08.65s	-15 48' 59.7"	5.4322	5.9581	-1.8	53.6	8.4	-24.92	84.05	25.35	106.0	Lib