

13h23m19.8s J2000.0

-02 16' 42" Vir

1 Dez 2024 0:00:00

Bahn (4) Vesta

Vesta

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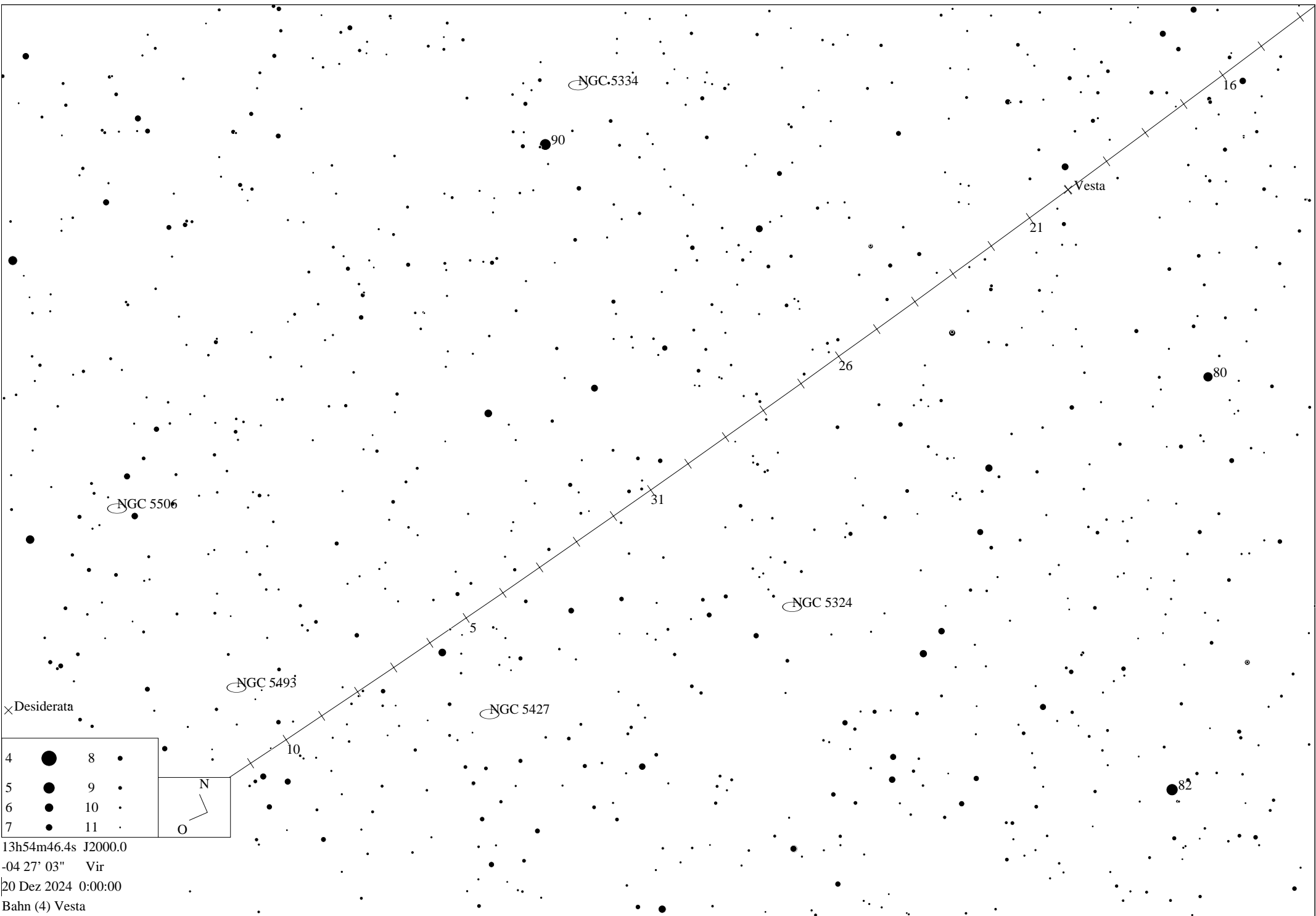
46

48

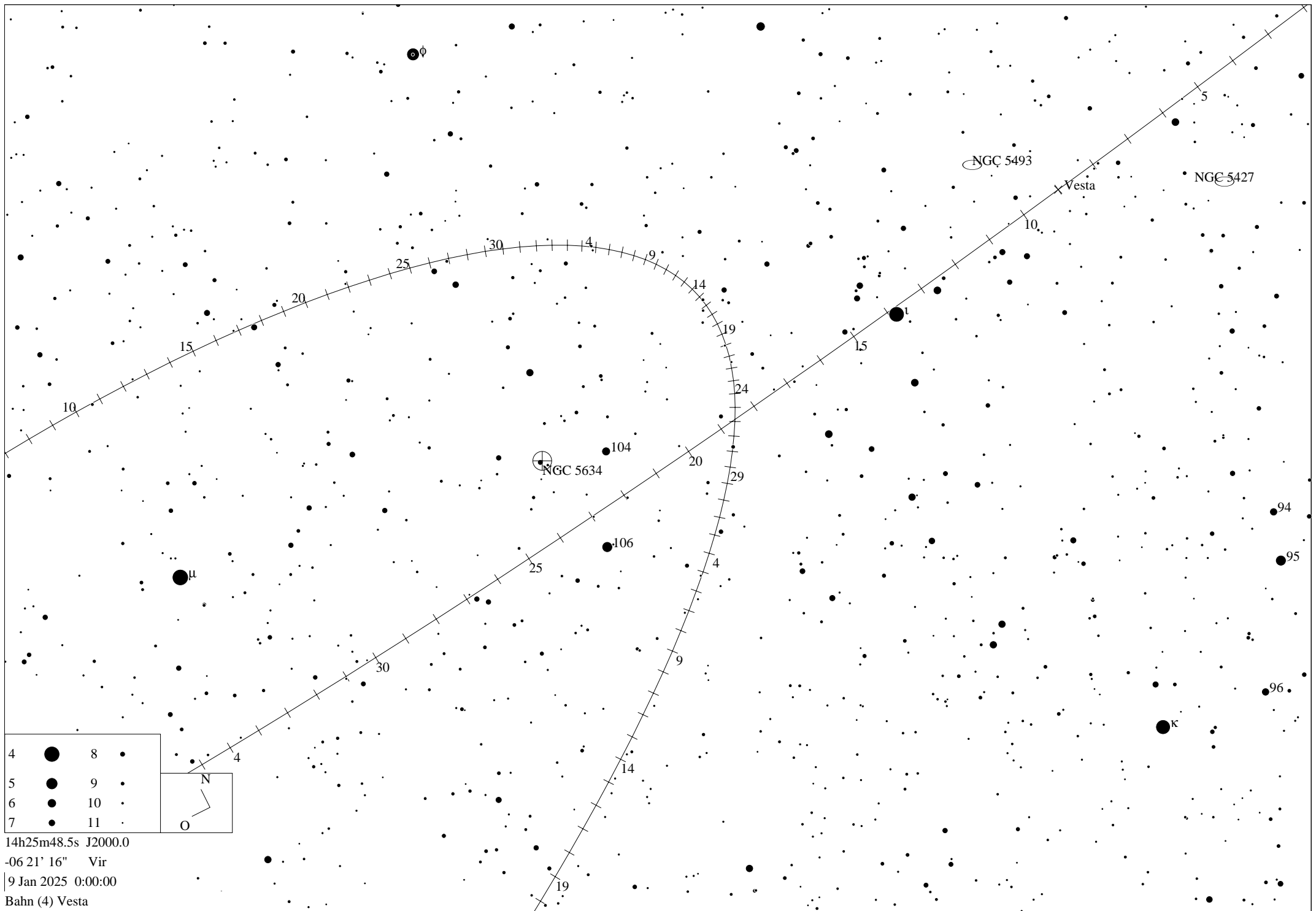
NGC 4941

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NGC 4981



13h54m46.4s J2000.0
 -04 27' 03" Vir
 20 Dez 2024 0:00:00
 Bahn (4) Vesta

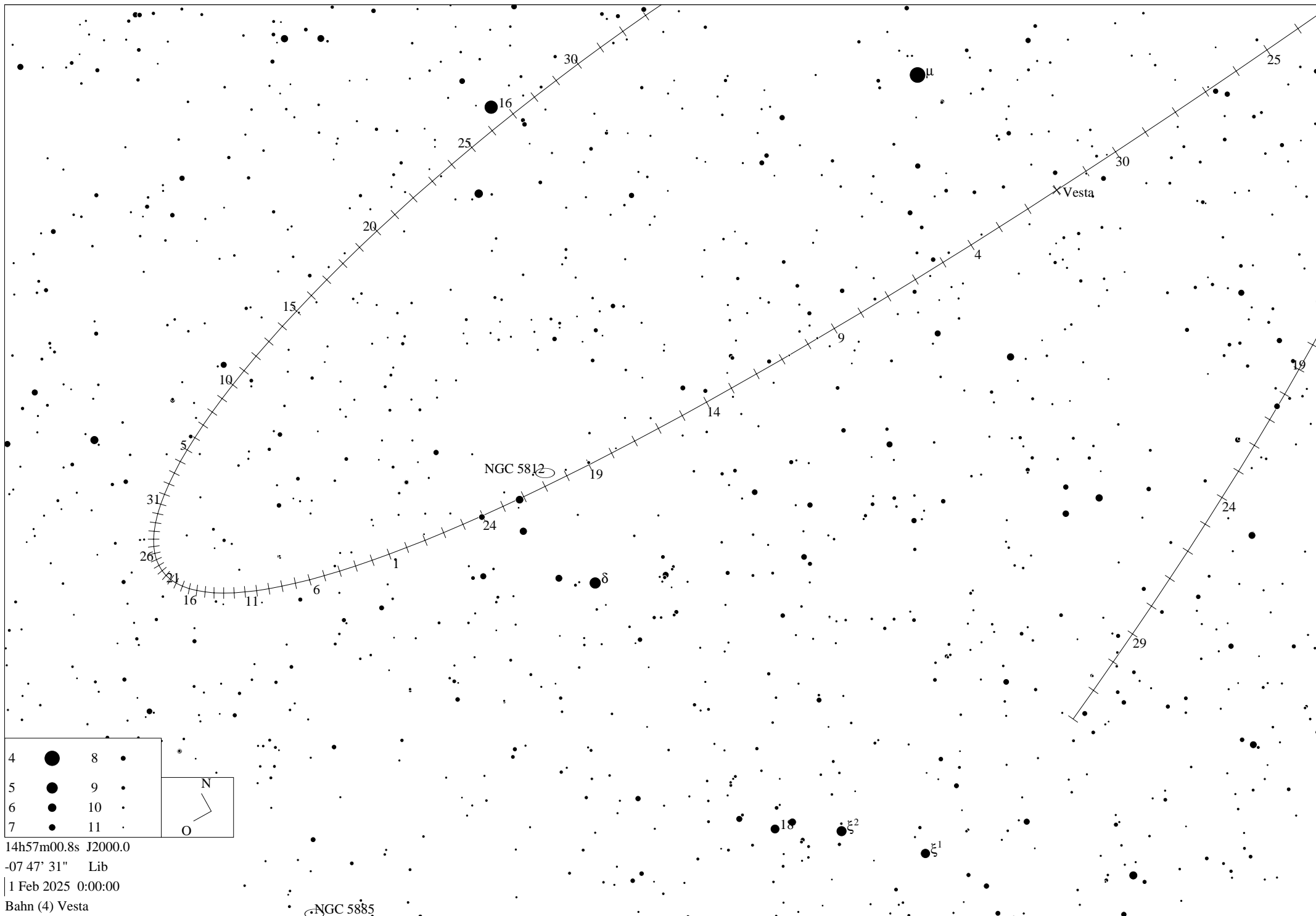


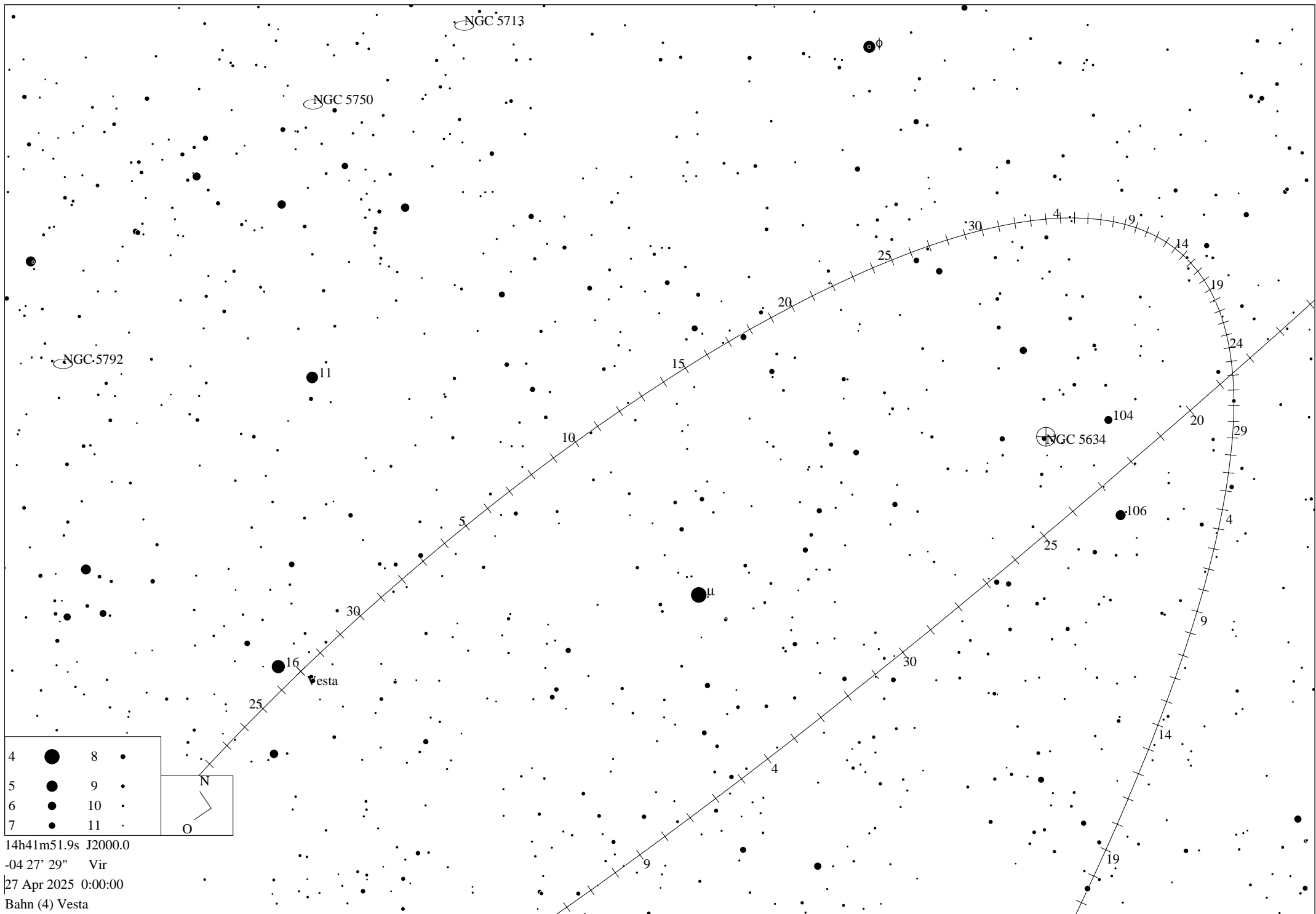
14h25m48.5s J2000.0

-06 21' 16" Vir

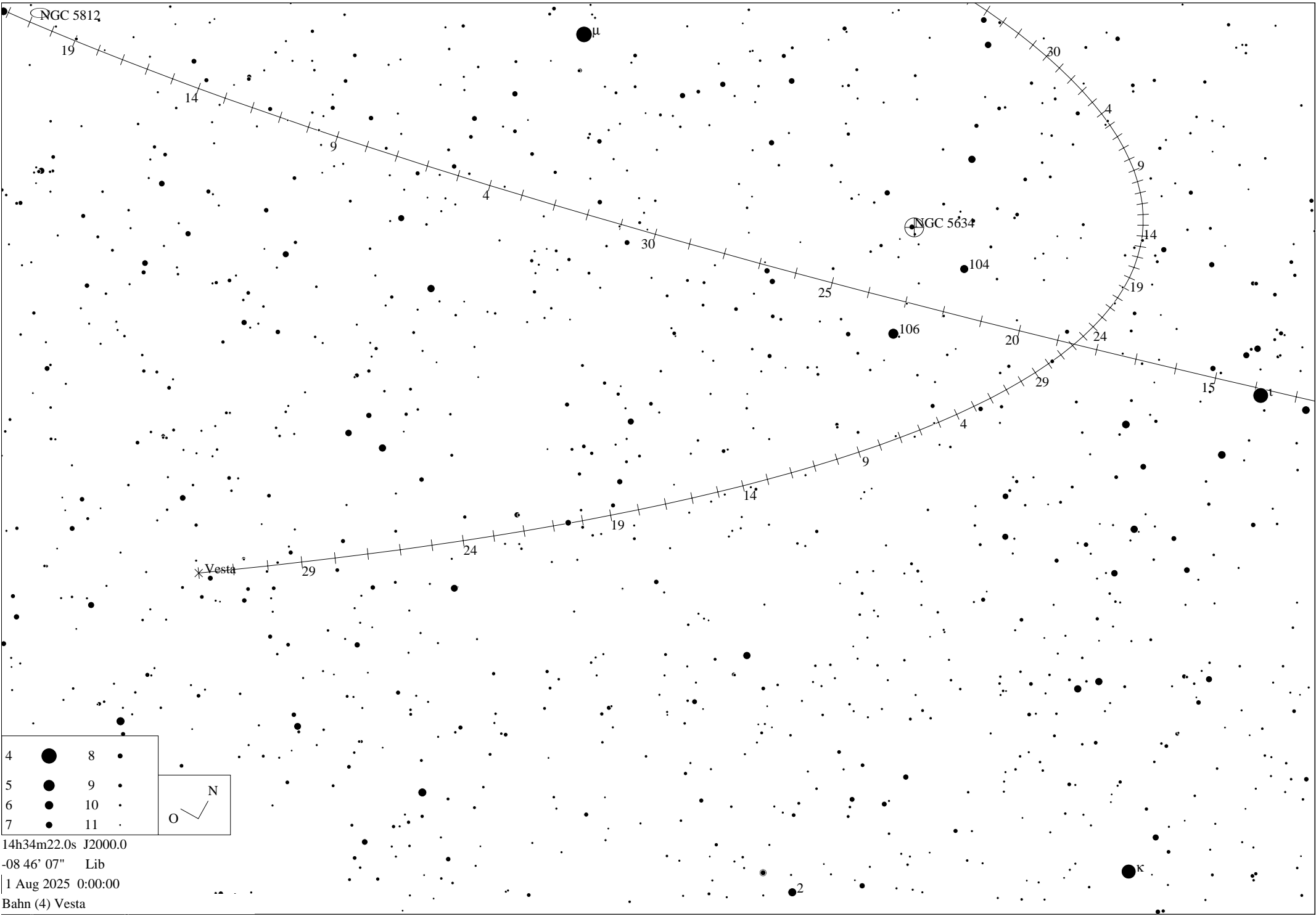
9 Jan 2025 0:00:00

Bahn (4) Vesta





14h41m51.9s J2000.0
 -04 27' 29" Vir
 27 Apr 2025 0:00:00
 Bahn (4) Vesta



NGC 5812

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NGC 5634

104

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*Vesta

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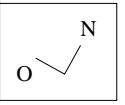
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14h34m22.0s J2000.0

-08 46' 07" Lib

1 Aug 2025 0:00:00

Bahn (4) Vesta

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Ephemeride des Kleinplaneten (4) Vesta

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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1 Dez 2024	13h06m30.39s	-00 55' 18.6"	2.3050	2.7514	8.0	53.5	20.1	-14.63	72.39	67.06	108.7	Vir
2 Dez 2024	13h08m11.74s	-01 03' 52.1"	2.3040	2.7404	8.0	54.0	20.3	-14.41	72.95	66.89	108.6	Vir
3 Dez 2024	13h09m52.88s	-01 12' 21.9"	2.3030	2.7292	8.0	54.6	20.4	-14.19	73.51	66.71	108.5	Vir
4 Dez 2024	13h11m33.83s	-01 20' 47.7"	2.3020	2.7181	8.0	55.2	20.6	-13.97	74.06	66.53	108.4	Vir
5 Dez 2024	13h13m14.57s	-01 29' 09.7"	2.3010	2.7068	8.0	55.7	20.7	-13.75	74.61	66.35	108.3	Vir
6 Dez 2024	13h14m55.09s	-01 37' 27.6"	2.3000	2.6955	8.0	56.3	20.9	-13.52	75.17	66.16	108.2	Vir
7 Dez 2024	13h16m35.40s	-01 45' 41.5"	2.2990	2.6841	8.0	56.9	21.0	-13.29	75.72	65.97	108.1	Vir
8 Dez 2024	13h18m15.48s	-01 53' 51.3"	2.2980	2.6726	8.0	57.5	21.2	-13.06	76.27	65.77	108.0	Vir
9 Dez 2024	13h19m55.34s	-02 01' 56.8"	2.2970	2.6611	8.0	58.0	21.3	-12.83	76.82	65.57	107.9	Vir
10 Dez 2024	13h21m34.97s	-02 09' 58.1"	2.2960	2.6496	8.0	58.6	21.5	-12.59	77.37	65.37	107.8	Vir
11 Dez 2024	13h23m14.35s	-02 17' 55.2"	2.2951	2.6380	8.0	59.2	21.6	-12.35	77.92	65.16	107.7	Vir
12 Dez 2024	13h24m53.50s	-02 25' 47.8"	2.2941	2.6263	7.9	59.8	21.8	-12.11	78.46	64.95	107.6	Vir
13 Dez 2024	13h26m32.39s	-02 33' 36.1"	2.2931	2.6146	7.9	60.3	21.9	-11.87	79.01	64.73	107.5	Vir
14 Dez 2024	13h28m11.04s	-02 41' 19.8"	2.2921	2.6028	7.9	60.9	22.0	-11.62	79.56	64.52	107.4	Vir
15 Dez 2024	13h29m49.43s	-02 48' 59.1"	2.2911	2.5909	7.9	61.5	22.2	-11.38	80.10	64.29	107.2	Vir
16 Dez 2024	13h31m27.55s	-02 56' 33.7"	2.2901	2.5791	7.9	62.1	22.3	-11.13	80.65	64.07	107.1	Vir
17 Dez 2024	13h33m05.41s	-03 04' 03.7"	2.2892	2.5671	7.9	62.7	22.5	-10.87	81.19	63.84	107.0	Vir
18 Dez 2024	13h34m42.99s	-03 11' 28.9"	2.2882	2.5551	7.9	63.3	22.6	-10.62	81.73	63.60	106.9	Vir
19 Dez 2024	13h36m20.29s	-03 18' 49.3"	2.2872	2.5431	7.9	63.9	22.7	-10.36	82.27	63.36	106.8	Vir
20 Dez 2024	13h37m57.30s	-03 26' 04.9"	2.2862	2.5310	7.9	64.5	22.8	-10.10	82.81	63.11	106.6	Vir
21 Dez 2024	13h39m34.01s	-03 33' 15.4"	2.2853	2.5189	7.9	65.1	23.0	-9.84	83.35	62.86	106.5	Vir
22 Dez 2024	13h41m10.41s	-03 40' 20.9"	2.2843	2.5067	7.9	65.7	23.1	-9.57	83.89	62.60	106.4	Vir
23 Dez 2024	13h42m46.48s	-03 47' 21.3"	2.2833	2.4945	7.9	66.3	23.2	-9.31	84.43	62.33	106.3	Vir
24 Dez 2024	13h44m22.23s	-03 54' 16.5"	2.2823	2.4822	7.9	66.9	23.3	-9.04	84.97	62.05	106.1	Vir
25 Dez 2024	13h45m57.64s	-04 01' 06.5"	2.2814	2.4699	7.8	67.5	23.5	-8.76	85.51	61.77	106.0	Vir
26 Dez 2024	13h47m32.71s	-04 07' 51.0"	2.2804	2.4575	7.8	68.1	23.6	-8.49	86.05	61.49	105.8	Vir
27 Dez 2024	13h49m07.41s	-04 14' 30.1"	2.2794	2.4451	7.8	68.7	23.7	-8.21	86.59	61.19	105.7	Vir
28 Dez 2024	13h50m41.74s	-04 21' 03.8"	2.2785	2.4326	7.8	69.3	23.8	-7.93	87.12	60.89	105.6	Vir
29 Dez 2024	13h52m15.68s	-04 27' 31.8"	2.2775	2.4202	7.8	69.9	23.9	-7.65	87.66	60.58	105.4	Vir
30 Dez 2024	13h53m49.24s	-04 33' 54.2"	2.2766	2.4076	7.8	70.5	24.0	-7.37	88.20	60.26	105.3	Vir
31 Dez 2024	13h55m22.39s	-04 40' 10.8"	2.2756	2.3951	7.8	71.1	24.1	-7.08	88.73	59.94	105.1	Vir
1 Jan 2025	13h56m55.12s	-04 46' 21.6"	2.2746	2.3825	7.8	71.7	24.2	-6.79	89.27	59.61	104.9	Vir
2 Jan 2025	13h58m27.42s	-04 52' 26.6"	2.2737	2.3698	7.8	72.3	24.3	-6.50	89.81	59.27	104.8	Vir
3 Jan 2025	13h59m59.28s	-04 58' 25.7"	2.2727	2.3572	7.8	73.0	24.4	-6.21	90.34	58.92	104.6	Vir
4 Jan 2025	14h01m30.69s	-05 04' 18.8"	2.2718	2.3445	7.7	73.6	24.5	-5.91	90.88	58.57	104.5	Vir
5 Jan 2025	14h03m01.64s	-05 10' 05.8"	2.2708	2.3318	7.7	74.2	24.6	-5.61	91.41	58.21	104.3	Vir
6 Jan 2025	14h04m32.11s	-05 15' 46.8"	2.2699	2.3190	7.7	74.8	24.7	-5.31	91.95	57.84	104.1	Vir
7 Jan 2025	14h06m02.10s	-05 21' 21.7"	2.2689	2.3062	7.7	75.5	24.8	-5.01	92.49	57.47	104.0	Vir
8 Jan 2025	14h07m31.60s	-05 26' 50.4"	2.2680	2.2934	7.7	76.1	24.9	-4.70	93.03	57.09	103.8	Vir
9 Jan 2025	14h09m00.59s	-05 32' 12.8"	2.2671	2.2806	7.7	76.7	25.0	-4.40	93.56	56.71	103.6	Vir
10 Jan 2025	14h10m29.07s	-05 37' 29.1"	2.2661	2.2678	7.7	77.4	25.1	-4.09	94.10	56.32	103.5	Vir
11 Jan 2025	14h11m57.02s	-05 42' 39.0"	2.2652	2.2549	7.7	78.0	25.1	-3.77	94.64	55.92	103.3	Vir
12 Jan 2025	14h13m24.44s	-05 47' 42.6"	2.2642	2.2420	7.7	78.7	25.2	-3.46	95.18	55.52	103.1	Vir
13 Jan 2025	14h14m51.30s	-05 52' 39.8"	2.2633	2.2291	7.7	79.3	25.3	-3.14	95.72	55.10	102.9	Vir
14 Jan 2025	14h16m17.60s	-05 57' 30.6"	2.2624	2.2162	7.6	80.0	25.3	-2.82	96.26	54.68	102.7	Vir
15 Jan 2025	14h17m43.33s	-06 02' 14.9"	2.2614	2.2033	7.6	80.6	25.4	-2.50	96.80	54.26	102.5	Vir
16 Jan 2025	14h19m08.46s	-06 06' 52.5"	2.2605	2.1904	7.6	81.3	25.5	-2.17	97.34	53.82	102.3	Vir
17 Jan 2025	14h20m32.99s	-06 11' 23.6"	2.2596	2.1774	7.6	81.9	25.5	-1.84	97.88	53.37	102.1	Vir
18 Jan 2025	14h21m56.90s	-06 15' 48.0"	2.2587	2.1644	7.6	82.6	25.6	-1.51	98.43	52.92	101.9	Vir
19 Jan 2025	14h23m20.17s	-06 20' 05.6"	2.2577	2.1514	7.6	83.2	25.6	-1.18	98.97	52.45	101.7	Vir
20 Jan 2025	14h24m42.79s	-06 24' 16.4"	2.2568	2.1385	7.6	83.9	25.7	-0.84	99.52	51.98	101.5	Vir
21 Jan 2025	14h26m04.74s	-06 28' 20.3"	2.2559	2.1255	7.6	84.6	25.7	-0.51	100.07	51.49	101.3	Vir
22 Jan 2025	14h27m25.99s	-06 32' 17.4"	2.2550	2.1125	7.5	85.2	25.8	-0.16	100.61	51.00	101.1	Vir
23 Jan 2025	14h28m46.54s	-06 36' 07.4"	2.2541	2.0995	7.5	85.9	25.8	0.18	101.16	50.49	100.9	Vir
24 Jan 2025	14h30m06.37s	-06 39' 50.3"	2.2532	2.0865	7.5	86.6	25.9	0.52	101.72	49.97	100.6	Vir
25 Jan 2025	14h31m25.40s	-06 43' 26.1"	2.2523	2.0735	7.5	87.3	25.9	0.87	102.27	49.44	100.4	Vir
26 Jan 2025	14h32m43.72s	-06 46' 54.8"	2.2514	2.0605	7.5	87.9	25.9	1.22	102.83	48.90	100.2	Vir
27 Jan 2025	14h34m01.26s	-06 50' 16.4"	2.2505	2.0474	7.5	88.6	25.9	1.58	103.38	48.35	99.9	Vir
28 Jan 2025	14h35m17.99s	-06 53' 30.6"	2.2496	2.0344	7.5	89.3	26.0	1.93	103.94	47.79	99.7	Vir
29 Jan 2025	14h36m33.90s	-06 56' 37.6"	2.2487	2.0215	7.4	90.0	26.0	2.29	104.50	47.21	99.4	Vir
30 Jan 2025	14h37m48.97s	-06 59' 37.2"	2.2478	2.0085	7.4	90.7	26.0	2.65	105.07	46.63	99.1	Vir
31 Jan 2025	14h39m03.17s	-07 02' 29.4"	2.2469	1.9955	7.4	91.4	26.0	3.02	105.63	46.03	98.9	Vir
1 Feb 2025	14h40m16.49s	-07 05' 14.3"	2.2460	1.9825	7.4	92.1	26.0	3.38	106.20	45.42	98.6	Vir
2 Feb 2025	14h41m28.91s	-07 07' 51.7"	2.2451	1.9696	7.4	92.8	26.0	3.75	106.77	44.80	98.3	Vir
3 Feb 2025	14h42m40.40s	-07 10' 21.8"	2.2442	1.9567	7.4	93.5	26.0	4.13	107.35	44.18	98.0	Vir
4 Feb 2025	14h43m50.97s	-07 12' 44.3"	2.2433	1.9437	7.4	94.2	26.0	4.50	107.93	43.54	97.7	Vir
5 Feb 2025	14h45m00.57s	-07 14' 59.4"	2.2424	1.9309	7.3	94.9	26.0	4.88	108.51	42.89	97.4	Vir
6 Feb 2025	14h46m09.20s	-07 17' 07.1"	2.2416	1.9180	7.3	95.7	26.0	5.26	109.09	42.23	97.1	Vir
7 Feb 2025	14h47m16.84s	-07 19' 07.3"	2.2407	1.9052	7.3	96.4	25.9	5.64	109.68	41.56	96.8	Lib
8 Feb 2025	14h48m23.46s	-07 21' 00.0"	2.2398	1.8924	7.3	97.1	25.9	6.03	110.27	40.89	96.5	Lib
9 Feb 2025	14h49m29.06s	-07 22' 45.2"	2.2389	1.8796	7.3	97.9	25.9	6.41	110.86	40.20	96.2	Lib
10 Feb 2025	14h50m33.60s	-07 24' 22.8"	2.2381	1.8668	7.3	98.6	25.8	6.80	111.46	39.50	95.8	Lib
11 Feb 2025	14h51m37.07s	-07 25' 53.0"	2.2372	1.8541	7.2	99.3	25.8	7.20	112.06	38.78	95.4	Lib
12 Feb 2025	14h52m39.45s	-07 27' 15.6"	2.2363	1.8414	7.2	100.1	25.8	7.59	112.67	38.06	95.1	Lib

Ephemeride des Kleinplaneten (4) Vesta

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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13 Feb 2025	14h53m40.72s	-07 28' 30.6"	2.2355	1.8288	7.2	100.8	25.7	7.99	113.28	37.32	94.7	Lib
14 Feb 2025	14h54m40.84s	-07 29' 38.0"	2.2346	1.8162	7.2	101.6	25.7	8.39	113.90	36.58	94.3	Lib
15 Feb 2025	14h55m39.80s	-07 30' 37.8"	2.2338	1.8036	7.2	102.3	25.6	8.79	114.52	35.81	93.9	Lib
16 Feb 2025	14h56m37.58s	-07 31' 29.9"	2.2329	1.7911	7.2	103.1	25.5	9.20	115.14	35.04	93.4	Lib
17 Feb 2025	14h57m34.14s	-07 32' 14.4"	2.2321	1.7786	7.1	103.9	25.5	9.61	115.77	34.25	93.0	Lib
18 Feb 2025	14h58m29.47s	-07 32' 51.2"	2.2312	1.7662	7.1	104.6	25.4	10.01	116.41	33.45	92.5	Lib
19 Feb 2025	14h59m23.53s	-07 33' 20.2"	2.2304	1.7538	7.1	105.4	25.3	10.43	117.05	32.63	92.0	Lib
20 Feb 2025	15h00m16.31s	-07 33' 41.6"	2.2295	1.7415	7.1	106.2	25.2	10.84	117.69	31.81	91.5	Lib
21 Feb 2025	15h01m07.77s	-07 33' 55.3"	2.2287	1.7292	7.1	107.0	25.1	11.26	118.35	30.96	90.9	Lib
22 Feb 2025	15h01m57.89s	-07 34' 01.3"	2.2279	1.7170	7.0	107.8	25.0	11.68	119.01	30.11	90.3	Lib
23 Feb 2025	15h02m46.64s	-07 33' 59.5"	2.2270	1.7048	7.0	108.6	24.9	12.10	119.67	29.24	89.7	Lib
24 Feb 2025	15h03m33.99s	-07 33' 50.1"	2.2262	1.6927	7.0	109.4	24.8	12.52	120.34	28.36	89.0	Lib
25 Feb 2025	15h04m19.92s	-07 33' 32.9"	2.2254	1.6807	7.0	110.2	24.7	12.95	121.02	27.46	88.3	Lib
26 Feb 2025	15h05m04.41s	-07 33' 08.1"	2.2246	1.6687	7.0	111.0	24.6	13.37	121.71	26.55	87.6	Lib
27 Feb 2025	15h05m47.42s	-07 32' 35.6"	2.2237	1.6568	6.9	111.8	24.4	13.80	122.40	25.64	86.8	Lib
28 Feb 2025	15h06m28.92s	-07 31' 55.5"	2.2229	1.6450	6.9	112.6	24.3	14.24	123.10	24.71	85.9	Lib
1 Mar 2025	15h07m08.91s	-07 31' 07.9"	2.2221	1.6332	6.9	113.5	24.1	14.67	123.81	23.77	85.0	Lib
2 Mar 2025	15h07m47.35s	-07 30' 12.7"	2.2213	1.6216	6.9	114.3	24.0	15.10	124.53	22.83	84.0	Lib
3 Mar 2025	15h08m24.21s	-07 29' 10.2"	2.2205	1.6100	6.9	115.1	23.8	15.54	125.26	21.88	82.9	Lib
4 Mar 2025	15h09m05.49s	-07 28' 00.2"	2.2197	1.5985	6.8	116.0	23.7	15.98	125.99	20.92	81.8	Lib
5 Mar 2025	15h09m33.16s	-07 26' 43.0"	2.2189	1.5871	6.8	116.8	23.5	16.41	126.74	19.96	80.5	Lib
6 Mar 2025	15h10m05.19s	-07 25' 18.6"	2.2181	1.5757	6.8	117.7	23.3	16.85	127.49	19.00	79.1	Lib
7 Mar 2025	15h10m35.58s	-07 23' 47.0"	2.2173	1.5645	6.8	118.6	23.1	17.29	128.25	18.04	77.5	Lib
8 Mar 2025	15h11m04.29s	-07 22' 08.4"	2.2165	1.5534	6.8	119.4	23.0	17.74	129.02	17.08	75.8	Lib
9 Mar 2025	15h11m31.32s	-07 20' 22.8"	2.2157	1.5423	6.7	120.3	22.8	18.18	129.81	16.13	73.9	Lib
10 Mar 2025	15h11m56.63s	-07 18' 30.3"	2.2149	1.5314	6.7	121.2	22.6	18.62	130.60	15.18	71.7	Lib
11 Mar 2025	15h12m20.22s	-07 16' 31.0"	2.2142	1.5206	6.7	122.1	22.3	19.06	131.41	14.25	69.3	Lib
12 Mar 2025	15h12m42.06s	-07 14' 25.0"	2.2134	1.5099	6.7	123.0	22.1	19.50	132.22	13.33	66.5	Lib
13 Mar 2025	15h13m02.13s	-07 12' 12.3"	2.2126	1.4993	6.7	123.9	21.9	19.95	133.05	12.44	63.2	Lib
14 Mar 2025	15h13m20.41s	-07 09' 53.0"	2.2119	1.4888	6.6	124.8	21.7	20.39	133.89	11.58	59.5	Lib
15 Mar 2025	15h13m36.88s	-07 07' 27.2"	2.2111	1.4784	6.6	125.7	21.4	20.83	134.74	10.76	55.2	Lib
16 Mar 2025	15h13m51.52s	-07 04' 55.1"	2.2103	1.4682	6.6	126.6	21.2	21.27	135.60	10.01	50.2	Lib
17 Mar 2025	15h14m04.32s	-07 02' 16.7"	2.2096	1.4580	6.6	127.5	20.9	21.71	136.48	9.33	44.3	Lib
18 Mar 2025	15h14m15.25s	-06 59' 32.2"	2.2088	1.4480	6.5	128.4	20.7	22.14	137.37	8.75	37.7	Lib
19 Mar 2025	15h14m24.31s	-06 56' 41.6"	2.2081	1.4382	6.5	129.4	20.4	22.58	138.27	8.29	30.1	Lib
20 Mar 2025	15h14m31.47s	-06 53' 45.2"	2.2073	1.4284	6.5	130.3	20.1	23.01	139.19	7.99	21.8	Lib
21 Mar 2025	15h14m36.71s	-06 50' 42.9"	2.2066	1.4188	6.5	131.3	19.8	23.44	140.12	7.86	12.9	Lib
22 Mar 2025	15h14m40.03s	-06 47' 35.1"	2.2058	1.4093	6.5	132.2	19.5	23.87	141.07	7.91	3.9	Lib
23 Mar 2025	15h14m41.41s	-06 44' 21.8"	2.2051	1.4000	6.4	133.2	19.2	24.30	142.03	8.14	355.2	Lib
24 Mar 2025	15h14m40.85s	-06 41' 03.2"	2.2044	1.3908	6.4	134.1	18.9	24.72	143.00	8.55	347.1	Lib
25 Mar 2025	15h14m38.32s	-06 37' 39.6"	2.2036	1.3818	6.4	135.1	18.6	25.14	143.99	9.10	339.9	Lib
26 Mar 2025	15h14m33.83s	-06 34' 11.0"	2.2029	1.3729	6.4	136.1	18.3	25.55	145.00	9.78	333.5	Lib
27 Mar 2025	15h14m27.38s	-06 30' 37.8"	2.2022	1.3642	6.3	137.1	18.0	25.96	146.02	10.55	327.9	Lib
28 Mar 2025	15h14m18.95s	-06 27' 00.1"	2.2015	1.3557	6.3	138.0	17.6	26.36	147.06	11.40	323.1	Lib
29 Mar 2025	15h14m08.56s	-06 23' 18.3"	2.2008	1.3473	6.3	139.0	17.3	26.76	148.12	12.31	319.0	Lib
30 Mar 2025	15h13m56.20s	-06 19' 32.5"	2.2001	1.3391	6.3	140.0	17.0	27.15	149.19	13.26	315.4	Lib
31 Mar 2025	15h13m41.90s	-06 15' 43.1"	2.1994	1.3310	6.2	141.0	16.6	27.54	150.28	14.25	312.4	Lib
1 Apr 2025	15h13m25.65s	-06 11' 50.3"	2.1987	1.3232	6.2	142.0	16.2	27.92	151.38	15.25	309.7	Lib
2 Apr 2025	15h13m07.47s	-06 07' 54.5"	2.1980	1.3155	6.2	143.0	15.9	28.29	152.50	16.27	307.3	Lib
3 Apr 2025	15h12m47.38s	-06 03' 55.9"	2.1973	1.3080	6.2	144.1	15.5	28.65	153.64	17.30	305.2	Lib
4 Apr 2025	15h12m25.41s	-05 59' 54.9"	2.1966	1.3007	6.1	145.1	15.1	29.00	154.80	18.33	303.3	Lib
5 Apr 2025	15h12m01.56s	-05 55' 51.7"	2.1959	1.2935	6.1	146.1	14.7	29.35	155.97	19.36	301.6	Lib
6 Apr 2025	15h11m35.88s	-05 51' 46.7"	2.1952	1.2866	6.1	147.1	14.3	29.68	157.17	20.39	300.1	Lib
7 Apr 2025	15h11m08.37s	-05 47' 40.1"	2.1946	1.2799	6.1	148.1	13.9	30.00	158.37	21.41	298.7	Lib
8 Apr 2025	15h10m39.06s	-05 43' 32.4"	2.1939	1.2733	6.1	149.2	13.5	30.32	159.60	22.41	297.4	Lib
9 Apr 2025	15h10m08.00s	-05 39' 23.7"	2.1932	1.2670	6.0	150.2	13.1	30.62	160.84	23.41	296.3	Lib
10 Apr 2025	15h09m35.20s	-05 35' 14.5"	2.1925	1.2609	6.0	151.2	12.7	30.90	162.10	24.39	295.2	Lib
11 Apr 2025	15h09m00.70s	-05 31' 05.0"	2.1919	1.2549	6.0	152.2	12.3	31.18	163.37	25.35	294.2	Lib
12 Apr 2025	15h08m24.54s	-05 26' 55.6"	2.1912	1.2492	6.0	153.3	11.9	31.44	164.66	26.29	293.2	Lib
13 Apr 2025	15h07m46.75s	-05 22' 46.7"	2.1906	1.2437	5.9	154.3	11.5	31.68	165.97	27.21	292.4	Lib
14 Apr 2025	15h07m07.38s	-05 18' 38.6"	2.1899	1.2384	5.9	155.3	11.0	31.92	167.29	28.11	291.5	Lib
15 Apr 2025	15h06m26.47s	-05 14' 31.6"	2.1893	1.2333	5.9	156.3	10.6	32.13	168.63	28.98	290.7	Lib
16 Apr 2025	15h05m44.06s	-05 10' 26.2"	2.1887	1.2285	5.9	157.3	10.2	32.33	169.98	29.82	290.0	Lib
17 Apr 2025	15h05m00.20s	-05 06' 22.6"	2.1880	1.2239	5.8	158.3	9.8	32.52	171.34	30.63	289.3	Lib
18 Apr 2025	15h04m14.95s	-05 02' 21.4"	2.1874	1.2195	5.8	159.2	9.4	32.68	172.72	31.41	288.6	Lib
19 Apr 2025	15h03m28.36s	-04 58' 22.8"	2.1868	1.2153	5.8	160.2	9.0	32.83	174.11	32.15	287.9	Lib
20 Apr 2025	15h02m40.49s	-04 54' 27.3"	2.1862	1.2113	5.8	161.1	8.6	32.96	175.51	32.86	287.3	Lib
21 Apr 2025	15h01m51.39s	-04 50' 35.3"	2.1855	1.2076	5.8	162.0	8.2	33.08	176.92	33.53	286.6	Lib
22 Apr 2025	15h01m01.14s	-04 46' 47.2"	2.1849	1.2042	5.7	162.9	7.8	33.17	178.34	34.16	286.0	Lib
23 Apr 2025	15h00m09.79s	-04 43' 03.4"	2.1843	1.2009	5.7	163.7	7.4	33.24	179.76	34.74	285.4	Lib
24 Apr 2025	14h59m17.42s	-04 39' 24.2"	2.1837	1.1979	5.7	164.5	7.1	33.30	181.20	35.29	284.8	Lib
25 Apr 2025	14h58m24.11s	-04 35' 50.3"	2.1831	1.1951	5.7	165.3	6.7	33.33	182.64	35.78	284.3	Lib
26 Apr 2025	14h57m29.92s	-04 32' 21.9"	2.1825	1.1926	5.7	166.0	6.4	33.35	184.09	36.22	283.7	Lib
27 Apr 2025	14h56m34.94s	-04 28' 59.5"	2.1819	1.1903	5.7	166.6	6.1	33.34	185.54	36.62	283.1	Lib

Ephemeride des Kleinplaneten (4) Vesta

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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28 Apr 2025	14h55m39.26s	-04 25' 43.6"	2.1814	1.1883	5.6	167.1	5.9	33.31	186.99	36.96	282.6	Lib
29 Apr 2025	14h54m42.95s	-04 22' 34.6"	2.1808	1.1865	5.6	167.6	5.7	33.26	188.45	37.24	282.0	Lib
30 Apr 2025	14h53m46.12s	-04 19' 32.8"	2.1802	1.1850	5.6	167.9	5.5	33.19	189.90	37.47	281.4	Lib
1 Mai 2025	14h52m48.83s	-04 16' 38.7"	2.1796	1.1837	5.6	168.2	5.4	33.10	191.36	37.65	280.9	Lib
2 Mai 2025	14h51m51.19s	-04 13' 52.6"	2.1791	1.1826	5.6	168.3	5.4	32.99	192.81	37.77	280.3	Lib
3 Mai 2025	14h50m53.28s	-04 11' 15.0"	2.1785	1.1818	5.6	168.3	5.4	32.85	194.26	37.84	279.8	Lib
4 Mai 2025	14h49m55.19s	-04 08' 46.0"	2.1779	1.1812	5.6	168.2	5.4	32.70	195.71	37.86	279.2	Lib
5 Mai 2025	14h48m57.00s	-04 06' 26.1"	2.1774	1.1809	5.6	167.9	5.6	32.52	197.15	37.83	278.6	Lib
6 Mai 2025	14h47m58.79s	-04 04' 15.6"	2.1768	1.1808	5.6	167.6	5.7	32.32	198.58	37.74	278.0	Lib
7 Mai 2025	14h47m00.67s	-04 02' 14.6"	2.1763	1.1810	5.6	167.1	5.9	32.11	200.00	37.61	277.4	Lib
8 Mai 2025	14h46m02.69s	-04 00' 23.5"	2.1758	1.1814	5.6	166.6	6.2	31.87	201.42	37.42	276.8	Vir
9 Mai 2025	14h45m04.96s	-03 58' 42.6"	2.1752	1.1821	5.6	166.0	6.5	31.61	202.83	37.19	276.2	Vir
10 Mai 2025	14h44m07.54s	-03 57' 12.0"	2.1747	1.1830	5.7	165.3	6.8	31.33	204.22	36.91	275.6	Vir
11 Mai 2025	14h43m10.53s	-03 55' 52.0"	2.1742	1.1841	5.7	164.5	7.1	31.04	205.61	36.58	274.9	Vir
12 Mai 2025	14h42m13.99s	-03 54' 42.8"	2.1737	1.1855	5.7	163.7	7.5	30.72	206.98	36.21	274.3	Vir
13 Mai 2025	14h41m18.01s	-03 53' 44.6"	2.1732	1.1871	5.7	162.9	7.9	30.39	208.33	35.80	273.6	Vir
14 Mai 2025	14h40m22.65s	-03 52' 57.5"	2.1726	1.1889	5.7	162.0	8.3	30.04	209.68	35.34	272.9	Vir
15 Mai 2025	14h39m28.00s	-03 52' 21.7"	2.1721	1.1910	5.7	161.1	8.7	29.67	211.01	34.84	272.1	Vir
16 Mai 2025	14h38m34.13s	-03 51' 57.4"	2.1716	1.1933	5.8	160.2	9.1	29.28	212.32	34.31	271.4	Vir
17 Mai 2025	14h37m41.09s	-03 51' 44.7"	2.1711	1.1958	5.8	159.2	9.5	28.88	213.62	33.73	270.6	Vir
18 Mai 2025	14h36m48.98s	-03 51' 43.6"	2.1707	1.1985	5.8	158.3	9.9	28.46	214.90	33.12	269.7	Vir
19 Mai 2025	14h35m57.84s	-03 51' 54.4"	2.1702	1.2015	5.8	157.3	10.4	28.03	216.17	32.48	268.8	Vir
20 Mai 2025	14h35m07.75s	-03 52' 17.1"	2.1697	1.2047	5.8	156.3	10.8	27.58	217.42	31.80	267.9	Vir
21 Mai 2025	14h34m18.78s	-03 52' 51.8"	2.1692	1.2081	5.8	155.3	11.2	27.12	218.65	31.09	267.0	Vir
22 Mai 2025	14h33m30.97s	-03 53' 38.5"	2.1688	1.2117	5.9	154.3	11.7	26.65	219.86	30.35	265.9	Vir
23 Mai 2025	14h32m44.40s	-03 54' 37.4"	2.1683	1.2156	5.9	153.3	12.1	26.16	221.06	29.59	264.8	Vir
24 Mai 2025	14h31m59.12s	-03 55' 48.5"	2.1678	1.2196	5.9	152.3	12.5	25.66	222.24	28.80	263.7	Vir
25 Mai 2025	14h31m15.20s	-03 57' 11.8"	2.1674	1.2239	5.9	151.3	13.0	25.15	223.40	27.98	262.5	Vir
26 Mai 2025	14h30m32.68s	-03 58' 47.3"	2.1669	1.2283	5.9	150.2	13.4	24.63	224.54	27.15	261.1	Vir
27 Mai 2025	14h29m51.62s	-04 00' 35.1"	2.1665	1.2330	6.0	149.2	13.8	24.10	225.66	26.30	259.7	Vir
28 Mai 2025	14h29m12.06s	-04 02' 35.1"	2.1660	1.2379	6.0	148.2	14.3	23.55	226.77	25.44	258.2	Vir
29 Mai 2025	14h28m34.06s	-04 04' 47.3"	2.1656	1.2429	6.0	147.2	14.7	23.00	227.86	24.57	256.6	Vir
30 Mai 2025	14h27m57.66s	-04 07' 11.6"	2.1652	1.2482	6.0	146.2	15.1	22.44	228.93	23.69	254.8	Vir
31 Mai 2025	14h27m22.90s	-04 09' 47.9"	2.1648	1.2536	6.0	145.2	15.5	21.87	229.98	22.82	252.9	Vir
1 Jun 2025	14h26m49.80s	-04 12' 36.2"	2.1643	1.2593	6.1	144.2	15.9	21.30	231.01	21.96	250.9	Vir
2 Jun 2025	14h26m18.40s	-04 15' 36.2"	2.1639	1.2651	6.1	143.2	16.3	20.72	232.03	21.10	248.6	Vir
3 Jun 2025	14h25m48.72s	-04 18' 47.9"	2.1635	1.2711	6.1	142.2	16.7	20.13	233.03	20.27	246.2	Vir
4 Jun 2025	14h25m20.80s	-04 22' 11.1"	2.1631	1.2772	6.1	141.2	17.1	19.53	234.01	19.45	243.6	Vir
5 Jun 2025	14h24m54.64s	-04 25' 45.7"	2.1627	1.2835	6.2	140.2	17.5	18.93	234.98	18.67	240.8	Vir
6 Jun 2025	14h24m30.27s	-04 29' 31.4"	2.1623	1.2900	6.2	139.2	17.9	18.32	235.93	17.93	237.7	Vir
7 Jun 2025	14h24m07.69s	-04 33' 28.2"	2.1619	1.2967	6.2	138.2	18.2	17.71	236.87	17.23	234.4	Vir
8 Jun 2025	14h23m46.93s	-04 37' 35.9"	2.1616	1.3035	6.2	137.3	18.6	17.10	237.78	16.58	230.8	Vir
9 Jun 2025	14h23m28.00s	-04 41' 54.1"	2.1612	1.3105	6.2	136.3	18.9	16.48	238.69	15.99	227.0	Vir
10 Jun 2025	14h23m10.89s	-04 46' 22.9"	2.1608	1.3176	6.3	135.3	19.3	15.86	239.57	15.48	222.9	Vir
11 Jun 2025	14h22m55.62s	-04 51' 02.0"	2.1605	1.3248	6.3	134.4	19.6	15.23	240.45	15.04	218.5	Vir
12 Jun 2025	14h22m42.19s	-04 55' 51.2"	2.1601	1.3322	6.3	133.4	20.0	14.60	241.31	14.68	213.9	Vir
13 Jun 2025	14h22m30.60s	-05 00' 50.3"	2.1597	1.3398	6.3	132.5	20.3	13.97	242.15	14.42	209.2	Vir
14 Jun 2025	14h22m20.86s	-05 05' 59.1"	2.1594	1.3475	6.3	131.6	20.6	13.34	242.98	14.25	204.3	Vir
15 Jun 2025	14h22m12.96s	-05 11' 17.5"	2.1590	1.3553	6.4	130.6	20.9	12.70	243.80	14.18	199.3	Vir
16 Jun 2025	14h22m06.90s	-05 16' 45.2"	2.1587	1.3632	6.4	129.7	21.2	12.07	244.60	14.21	194.4	Vir
17 Jun 2025	14h22m02.69s	-05 22' 22.1"	2.1584	1.3713	6.4	128.8	21.5	11.43	245.39	14.34	189.5	Vir
18 Jun 2025	14h22m00.31s	-05 28' 08.0"	2.1580	1.3795	6.4	127.9	21.8	10.79	246.17	14.56	184.7	Vir
19 Jun 2025	14h21m59.77s	-05 34' 02.7"	2.1577	1.3878	6.4	127.0	22.1	10.15	246.93	14.87	180.2	Vir
20 Jun 2025	14h22m01.05s	-05 40' 06.1"	2.1574	1.3963	6.5	126.1	22.4	9.51	247.69	15.27	175.8	Vir
21 Jun 2025	14h22m04.17s	-05 46' 17.9"	2.1571	1.4048	6.5	125.2	22.6	8.87	248.43	15.74	171.7	Vir
22 Jun 2025	14h22m09.11s	-05 52' 38.0"	2.1568	1.4135	6.5	124.3	22.9	8.23	249.16	16.28	167.9	Vir
23 Jun 2025	14h22m15.86s	-05 59' 06.2"	2.1565	1.4223	6.5	123.5	23.1	7.59	249.88	16.87	164.3	Vir
24 Jun 2025	14h22m24.43s	-06 05' 42.3"	2.1562	1.4312	6.5	122.6	23.4	6.95	250.59	17.52	161.0	Vir
25 Jun 2025	14h22m34.80s	-06 12' 26.2"	2.1559	1.4402	6.6	121.8	23.6	6.31	251.28	18.22	158.0	Vir
26 Jun 2025	14h22m46.96s	-06 19' 17.6"	2.1556	1.4493	6.6	120.9	23.9	5.67	251.97	18.95	155.2	Vir
27 Jun 2025	14h23m00.90s	-06 26' 16.3"	2.1553	1.4585	6.6	120.1	24.1	5.03	252.65	19.71	152.6	Vir
28 Jun 2025	14h23m16.60s	-06 33' 22.2"	2.1551	1.4677	6.6	119.2	24.3	4.39	253.32	20.49	150.2	Vir
29 Jun 2025	14h23m34.06s	-06 40' 35.0"	2.1548	1.4771	6.6	118.4	24.5	3.76	253.97	21.30	148.0	Vir
30 Jun 2025	14h23m53.26s	-06 47' 54.4"	2.1545	1.4866	6.6	117.6	24.7	3.12	254.62	22.12	146.0	Vir
1 Jul 2025	14h24m14.18s	-06 55' 20.4"	2.1543	1.4961	6.7	116.7	24.9	2.49	255.26	22.95	144.2	Vir
2 Jul 2025	14h24m36.80s	-07 02' 52.6"	2.1540	1.5057	6.7	115.9	25.1	1.85	255.89	23.79	142.5	Vir
3 Jul 2025	14h25m01.10s	-07 10' 30.8"	2.1538	1.5155	6.7	115.1	25.3	1.22	256.52	24.63	140.9	Vir
4 Jul 2025	14h25m27.06s	-07 18' 14.9"	2.1536	1.5252	6.7	114.3	25.5	0.59	257.13	25.47	139.4	Vir
5 Jul 2025	14h25m54.67s	-07 26' 04.7"	2.1533	1.5351	6.7	113.5	25.6	-0.03	257.74	26.32	138.0	Vir
6 Jul 2025	14h26m23.89s	-07 33' 59.9"	2.1531	1.5450	6.8	112.8	25.8	-0.66	258.34	27.16	136.8	Vir
7 Jul 2025	14h26m54.73s	-07 42' 00.3"	2.1529	1.5550	6.8	112.0	26.0	-1.28	258.93	28.01	135.6	Vir
8 Jul 2025	14h27m27.14s	-07 50' 05.7"	2.1526	1.5650	6.8	111.2	26.1	-1.90	259.51	28.84	134.5	Vir
9 Jul 2025	14h28m01.12s	-07 58' 16.0"	2.1524	1.5752	6.8	110.4	26.3	-2.52	260.09	29.68	133.4	Vir
10 Jul 2025	14h28m36.64s	-08 06' 30.9"	2.1522	1.5853	6.8	109.7	26.4	-3.14	260.66	30.50	132.5	Vir

Ephemeride des Kleinplaneten (4) Vesta

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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11 Jul 2025	14h29m13.68s	-08 14' 50.3"	2.1520	1.5956	6.8	108.9	26.5	-3.76	261.23	31.32	131.5	Vir
12 Jul 2025	14h29m52.22s	-08 23' 14.0"	2.1518	1.6059	6.9	108.2	26.7	-4.37	261.78	32.14	130.7	Vir
13 Jul 2025	14h30m32.25s	-08 31' 41.9"	2.1516	1.6162	6.9	107.4	26.8	-4.98	262.33	32.94	129.9	Vir
14 Jul 2025	14h31m13.74s	-08 40' 13.7"	2.1515	1.6266	6.9	106.7	26.9	-5.59	262.88	33.74	129.1	Lib
15 Jul 2025	14h31m56.68s	-08 48' 49.3"	2.1513	1.6371	6.9	106.0	27.0	-6.19	263.42	34.53	128.4	Lib
16 Jul 2025	14h32m41.06s	-08 57' 28.5"	2.1511	1.6475	6.9	105.2	27.1	-6.80	263.95	35.32	127.7	Lib
17 Jul 2025	14h33m26.84s	-09 06' 11.3"	2.1509	1.6581	6.9	104.5	27.2	-7.40	264.48	36.09	127.0	Lib
18 Jul 2025	14h34m14.03s	-09 14' 57.4"	2.1508	1.6687	7.0	103.8	27.3	-8.00	265.01	36.86	126.4	Lib
19 Jul 2025	14h35m02.60s	-09 23' 46.7"	2.1506	1.6793	7.0	103.1	27.4	-8.59	265.52	37.62	125.8	Lib
20 Jul 2025	14h35m52.55s	-09 32' 39.1"	2.1505	1.6900	7.0	102.4	27.5	-9.19	266.04	38.38	125.2	Lib
21 Jul 2025	14h36m43.84s	-09 41' 34.5"	2.1503	1.7007	7.0	101.7	27.6	-9.78	266.55	39.12	124.6	Lib
22 Jul 2025	14h37m36.48s	-09 50' 32.6"	2.1502	1.7115	7.0	101.0	27.6	-10.36	267.05	39.86	124.1	Lib
23 Jul 2025	14h38m30.45s	-09 59' 33.4"	2.1501	1.7223	7.0	100.3	27.7	-10.95	267.55	40.59	123.6	Lib
24 Jul 2025	14h39m25.73s	-10 08' 36.6"	2.1499	1.7331	7.1	99.6	27.8	-11.53	268.04	41.31	123.1	Lib
25 Jul 2025	14h40m22.30s	-10 17' 42.2"	2.1498	1.7439	7.1	98.9	27.8	-12.11	268.53	42.02	122.6	Lib
26 Jul 2025	14h41m20.16s	-10 26' 50.0"	2.1497	1.7548	7.1	98.2	27.9	-12.69	269.02	42.72	122.1	Lib
27 Jul 2025	14h42m19.27s	-10 35' 59.8"	2.1496	1.7657	7.1	97.6	27.9	-13.26	269.50	43.41	121.7	Lib
28 Jul 2025	14h43m19.64s	-10 45' 11.5"	2.1495	1.7767	7.1	96.9	28.0	-13.83	269.98	44.08	121.3	Lib
29 Jul 2025	14h44m21.23s	-10 54' 24.9"	2.1494	1.7876	7.1	96.2	28.0	-14.40	270.46	44.75	120.9	Lib
30 Jul 2025	14h45m24.03s	-11 03' 39.8"	2.1493	1.7986	7.1	95.6	28.0	-14.97	270.93	45.41	120.4	Lib
31 Jul 2025	14h46m28.03s	-11 12' 56.2"	2.1492	1.8096	7.2	94.9	28.1	-15.53	271.40	46.05	120.1	Lib
1 Aug 2025	14h47m33.20s	-11 22' 13.8"	2.1491	1.8207	7.2	94.2	28.1	-16.09	271.86	46.68	119.7	Lib