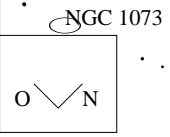


4	●	8	●
5	●	9	●
6	●	10	●
7	●	11	●



02h38m18.8s J2000.0
 +06 03' 50" Cet
 5 Aug 2023 0:00:00
 Bahn von (18) Melpomene

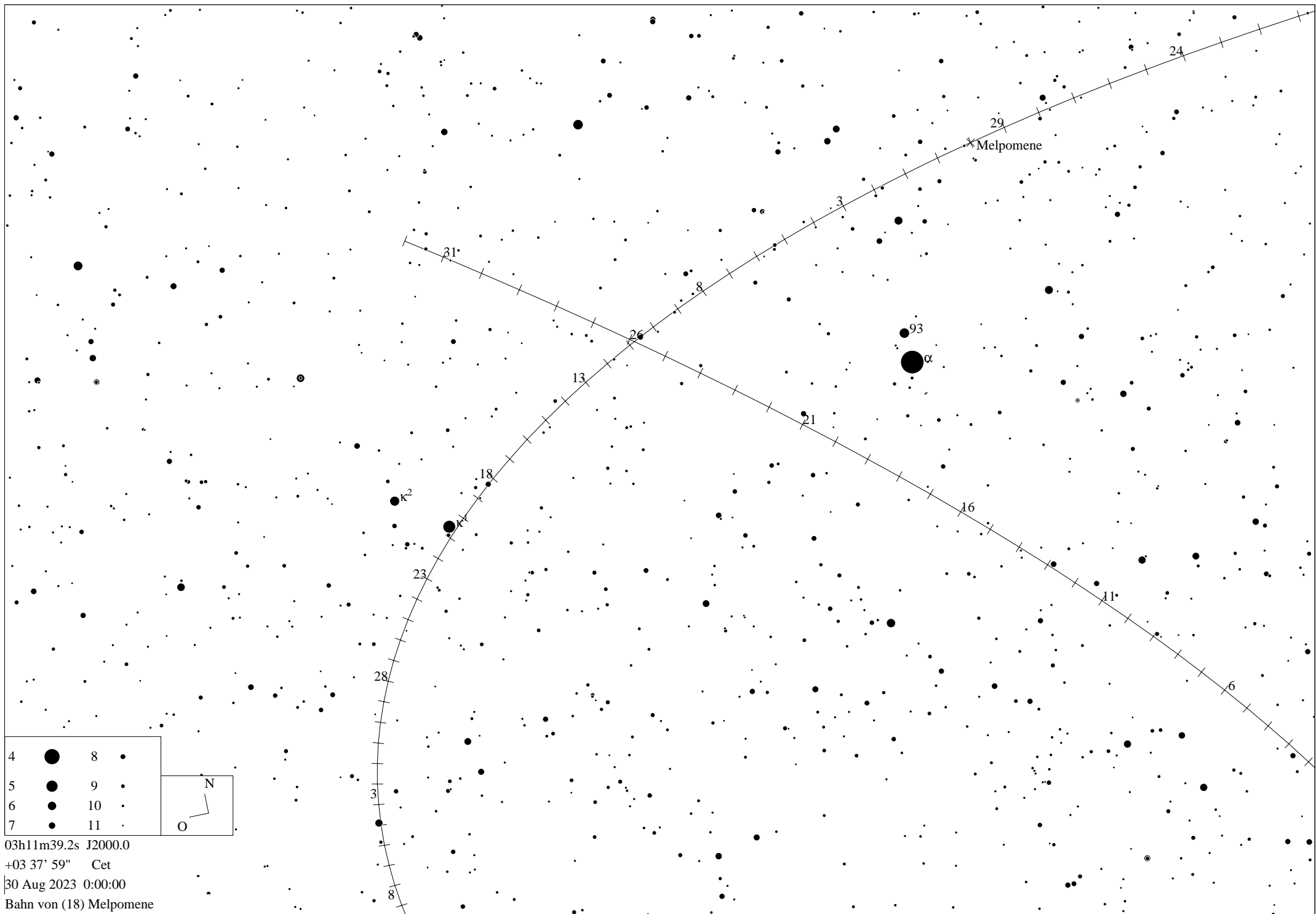
NGC 1073

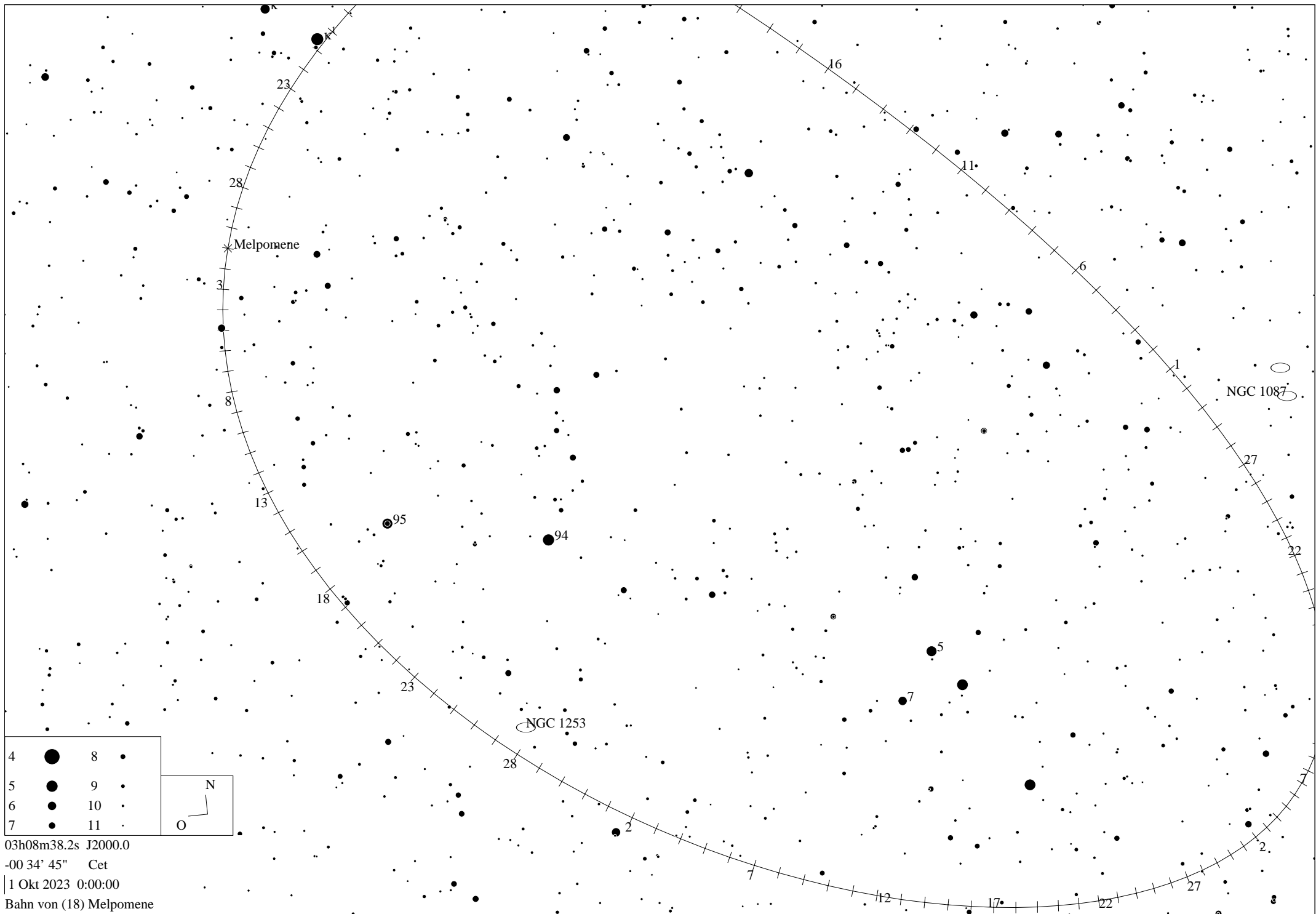
NGC 1016

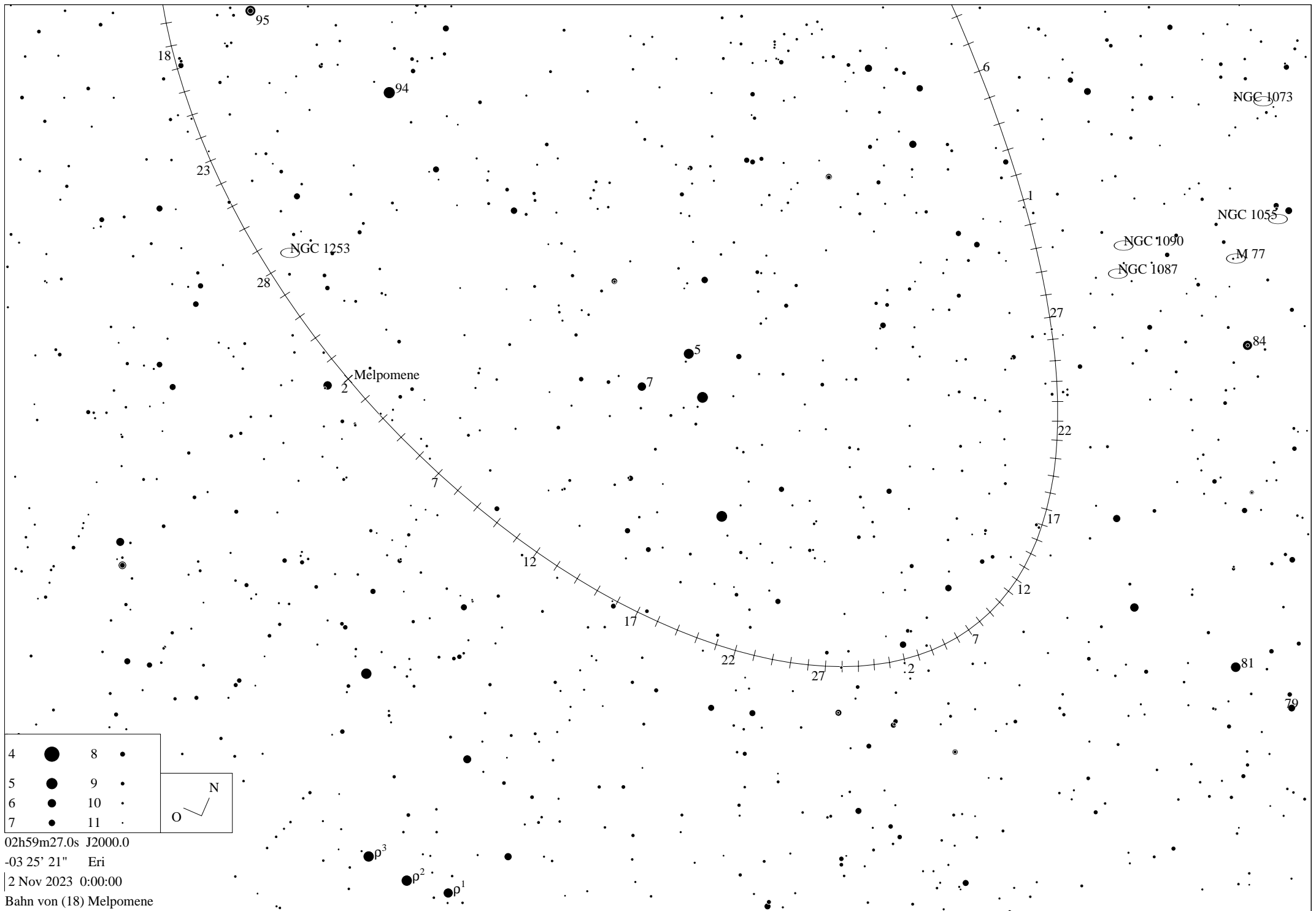
NGC 1032

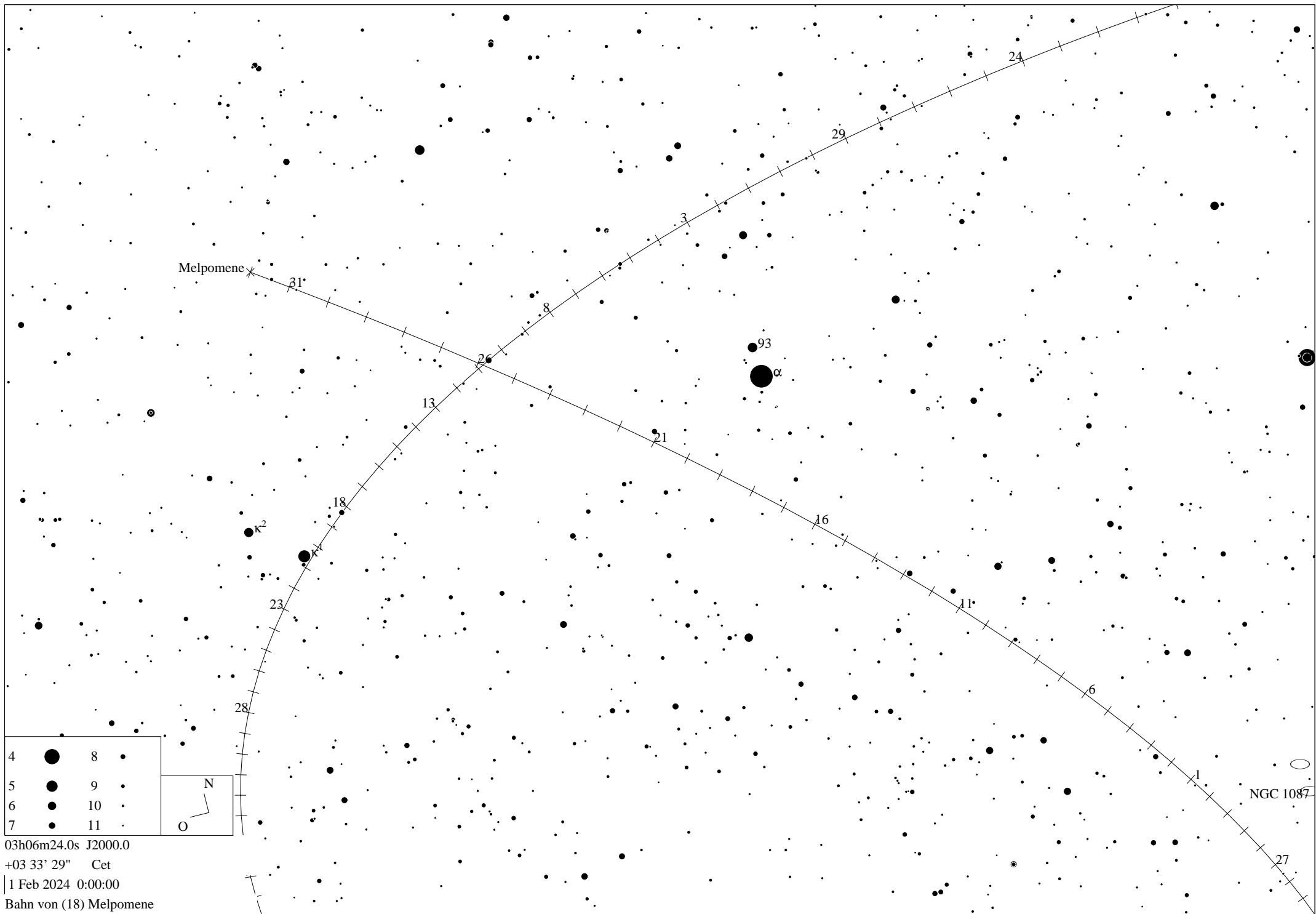
NGC 864

Melpomene









Ephemeride des Kleinplaneten (18) Melpomene

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
15 Jul 2023	01h41m58.16s	+05 54' 49.2"	1.8281	1.5884	10.1	86.2	33.7	11.32	94.69	72.95	81.5	Psc
16 Jul 2023	01h43m54.45s	+05 59' 01.9"	1.8270	1.5783	10.1	86.7	33.7	11.68	95.05	72.61	81.8	Psc
17 Jul 2023	01h45m50.31s	+06 03' 04.8"	1.8259	1.5682	10.0	87.2	33.8	12.04	95.41	72.27	82.0	Psc
18 Jul 2023	01h47m45.73s	+06 06' 58.0"	1.8248	1.5581	10.0	87.6	33.8	12.41	95.77	71.91	82.3	Psc
19 Jul 2023	01h49m40.69s	+06 10' 41.3"	1.8238	1.5481	10.0	88.1	33.8	12.76	96.14	71.55	82.6	Psc
20 Jul 2023	01h51m35.17s	+06 14' 14.5"	1.8227	1.5381	10.0	88.6	33.9	13.12	96.51	71.18	82.9	Psc
21 Jul 2023	01h53m29.16s	+06 17' 37.5"	1.8217	1.5281	10.0	89.1	33.9	13.48	96.89	70.81	83.2	Psc
22 Jul 2023	01h55m22.64s	+06 20' 50.3"	1.8207	1.5181	10.0	89.6	33.9	13.83	97.27	70.42	83.6	Psc
23 Jul 2023	01h57m15.59s	+06 23' 52.6"	1.8197	1.5082	10.0	90.1	33.9	14.19	97.65	70.03	83.9	Psc
24 Jul 2023	01h59m08.01s	+06 26' 44.5"	1.8187	1.4983	9.9	90.6	34.0	14.54	98.04	69.63	84.2	Psc
25 Jul 2023	02h00m59.87s	+06 29' 25.7"	1.8178	1.4884	9.9	91.1	34.0	14.89	98.43	69.22	84.5	Psc
26 Jul 2023	02h02m51.16s	+06 31' 56.2"	1.8168	1.4786	9.9	91.6	34.0	15.24	98.83	68.80	84.9	Psc
27 Jul 2023	02h04m41.85s	+06 34' 15.8"	1.8159	1.4688	9.9	92.1	34.0	15.59	99.23	68.38	85.2	Psc
28 Jul 2023	02h06m31.95s	+06 36' 24.6"	1.8150	1.4590	9.9	92.6	34.0	15.94	99.64	67.94	85.6	Psc
29 Jul 2023	02h08m21.42s	+06 38' 22.3"	1.8141	1.4492	9.9	93.1	34.0	16.29	100.05	67.50	85.9	Cet
30 Jul 2023	02h10m10.25s	+06 40' 09.0"	1.8133	1.4395	9.8	93.6	34.0	16.63	100.47	67.06	86.3	Cet
31 Jul 2023	02h11m58.42s	+06 41' 44.4"	1.8124	1.4299	9.8	94.1	34.0	16.98	100.89	66.60	86.7	Cet
1 Aug 2023	02h13m45.92s	+06 43' 08.5"	1.8116	1.4202	9.8	94.7	33.9	17.32	101.32	66.13	87.1	Cet
2 Aug 2023	02h15m32.73s	+06 44' 21.2"	1.8108	1.4106	9.8	95.2	33.9	17.66	101.75	65.66	87.5	Cet
3 Aug 2023	02h17m18.81s	+06 45' 22.3"	1.8100	1.4010	9.8	95.7	33.9	18.01	102.19	65.17	87.9	Cet
4 Aug 2023	02h19m04.16s	+06 46' 11.8"	1.8093	1.3915	9.8	96.3	33.9	18.34	102.64	64.68	88.3	Cet
5 Aug 2023	02h20m48.74s	+06 46' 49.4"	1.8085	1.3820	9.7	96.8	33.9	18.68	103.09	64.17	88.7	Cet
6 Aug 2023	02h22m32.53s	+06 47' 15.2"	1.8078	1.3725	9.7	97.3	33.8	19.02	103.55	63.65	89.2	Cet
7 Aug 2023	02h24m15.50s	+06 47' 28.9"	1.8071	1.3630	9.7	97.9	33.8	19.36	104.01	63.11	89.6	Cet
8 Aug 2023	02h25m57.63s	+06 47' 30.5"	1.8064	1.3537	9.7	98.4	33.7	19.69	104.48	62.56	90.1	Cet
9 Aug 2023	02h27m38.88s	+06 47' 19.7"	1.8057	1.3443	9.7	99.0	33.7	20.02	104.96	62.00	90.6	Cet
10 Aug 2023	02h29m19.23s	+06 46' 56.5"	1.8050	1.3350	9.7	99.5	33.6	20.36	105.45	61.43	91.1	Cet
11 Aug 2023	02h30m58.65s	+06 46' 20.9"	1.8044	1.3257	9.6	100.1	33.6	20.69	105.94	60.84	91.6	Cet
12 Aug 2023	02h32m37.11s	+06 45' 32.6"	1.8038	1.3164	9.6	100.7	33.5	21.02	106.44	60.24	92.1	Cet
13 Aug 2023	02h34m14.58s	+06 44' 31.6"	1.8032	1.3072	9.6	101.2	33.5	21.34	106.94	59.63	92.6	Cet
14 Aug 2023	02h35m51.03s	+06 43' 17.8"	1.8026	1.2981	9.6	101.8	33.4	21.67	107.46	59.01	93.2	Cet
15 Aug 2023	02h37m26.43s	+06 41' 51.1"	1.8021	1.2890	9.6	102.4	33.3	22.00	107.98	58.37	93.7	Cet
16 Aug 2023	02h39m00.76s	+06 40' 11.5"	1.8015	1.2799	9.6	103.0	33.2	22.32	108.51	57.72	94.3	Cet
17 Aug 2023	02h40m33.99s	+06 38' 18.9"	1.8010	1.2709	9.5	103.5	33.1	22.64	109.05	57.06	94.9	Cet
18 Aug 2023	02h42m06.08s	+06 36' 13.3"	1.8005	1.2619	9.5	104.1	33.0	22.96	109.60	56.39	95.5	Cet
19 Aug 2023	02h43m57.01s	+06 33' 54.5"	1.8000	1.2530	9.5	104.7	32.9	23.28	110.16	55.71	96.1	Cet
20 Aug 2023	02h45m06.75s	+06 31' 22.7"	1.7996	1.2442	9.5	105.3	32.8	23.60	110.72	55.02	96.8	Cet
21 Aug 2023	02h46m35.27s	+06 28' 37.6"	1.7991	1.2353	9.5	105.9	32.7	23.92	111.30	54.32	97.5	Cet
22 Aug 2023	02h48m02.54s	+06 25' 39.4"	1.7987	1.2266	9.4	106.6	32.6	24.24	111.88	53.61	98.2	Cet
23 Aug 2023	02h49m28.54s	+06 22' 28.0"	1.7983	1.2179	9.4	107.2	32.5	24.55	112.48	52.89	98.9	Cet
24 Aug 2023	02h50m53.23s	+06 19' 03.4"	1.7979	1.2092	9.4	107.8	32.4	24.86	113.08	52.16	99.6	Cet
25 Aug 2023	02h52m16.59s	+06 15' 25.6"	1.7976	1.2007	9.4	108.4	32.2	25.17	113.69	51.42	100.4	Cet
26 Aug 2023	02h53m38.59s	+06 11' 34.7"	1.7972	1.1921	9.4	109.1	32.1	25.48	114.32	50.67	101.2	Cet
27 Aug 2023	02h54m59.20s	+06 07' 30.5"	1.7969	1.1837	9.3	109.7	32.0	25.79	114.95	49.92	102.0	Cet
28 Aug 2023	02h56m18.39s	+06 03' 13.1"	1.7966	1.1753	9.3	110.3	31.8	26.10	115.60	49.16	102.8	Cet
29 Aug 2023	02h57m36.14s	+05 58' 42.6"	1.7963	1.1669	9.3	111.0	31.7	26.40	116.25	48.39	103.7	Cet
30 Aug 2023	02h58m52.40s	+05 53' 58.9"	1.7961	1.1587	9.3	111.7	31.5	26.70	116.92	47.61	104.6	Cet
31 Aug 2023	03h00m07.16s	+05 49' 02.0"	1.7958	1.1504	9.3	112.3	31.3	27.00	117.60	46.83	105.6	Cet
1 Sep 2023	03h01m20.37s	+05 43' 52.0"	1.7956	1.1423	9.2	113.0	31.2	27.30	118.29	46.04	106.6	Cet
2 Sep 2023	03h02m32.01s	+05 38' 28.8"	1.7954	1.1342	9.2	113.7	31.0	27.60	118.99	45.24	107.6	Cet
3 Sep 2023	03h03m42.02s	+05 32' 52.5"	1.7952	1.1262	9.2	114.3	30.8	27.89	119.71	44.44	108.7	Cet
4 Sep 2023	03h04m50.38s	+05 27' 03.0"	1.7950	1.1183	9.2	115.0	30.6	28.18	120.43	43.62	109.8	Cet
5 Sep 2023	03h05m57.05s	+05 21' 00.5"	1.7949	1.1104	9.2	115.7	30.4	28.47	121.17	42.80	111.0	Cet
6 Sep 2023	03h07m01.98s	+05 14' 44.9"	1.7948	1.1026	9.1	116.4	30.2	28.76	121.92	41.98	112.2	Cet
7 Sep 2023	03h08m05.15s	+05 08' 16.3"	1.7947	1.0949	9.1	117.1	30.0	29.04	122.69	41.15	113.5	Cet
8 Sep 2023	03h09m06.51s	+05 01' 34.8"	1.7946	1.0873	9.1	117.8	29.8	29.33	123.47	40.33	114.8	Cet
9 Sep 2023	03h10m06.02s	+04 54' 40.6"	1.7945	1.0797	9.1	118.5	29.6	29.60	124.26	39.50	116.2	Cet
10 Sep 2023	03h11m03.66s	+04 47' 33.6"	1.7945	1.0723	9.1	119.3	29.3	29.88	125.06	38.68	117.7	Cet
11 Sep 2023	03h11m59.38s	+04 40' 14.1"	1.7945	1.0649	9.0	120.0	29.1	30.15	125.89	37.86	119.3	Cet
12 Sep 2023	03h12m53.15s	+04 32' 42.2"	1.7945	1.0576	9.0	120.7	28.8	30.42	126.72	37.04	120.9	Cet
13 Sep 2023	03h13m44.94s	+04 24' 58.1"	1.7945	1.0504	9.0	121.5	28.6	30.69	127.57	36.24	122.6	Cet
14 Sep 2023	03h14m34.72s	+04 17' 02.0"	1.7945	1.0433	9.0	122.2	28.3	30.95	128.43	35.45	124.4	Cet
15 Sep 2023	03h15m22.45s	+04 08' 54.1"	1.7946	1.0362	9.0	123.0	28.0	31.21	129.31	34.68	126.3	Cet
16 Sep 2023	03h16m08.10s	+04 00' 34.6"	1.7947	1.0293	8.9	123.7	27.8	31.46	130.21	33.92	128.3	Cet
17 Sep 2023	03h16m51.65s	+03 52' 03.9"	1.7948	1.0225	8.9	124.5	27.5	31.71	131.12	33.18	130.3	Cet
18 Sep 2023	03h17m33.08s	+03 43' 22.1"	1.7949	1.0158	8.9	125.3	27.2	31.96	132.04	32.47	132.5	Cet
19 Sep 2023	03h18m12.34s	+03 34' 29.6"	1.7950	1.0091	8.9	126.1	26.9	32.20	132.99	31.79	134.7	Cet
20 Sep 2023	03h18m49.44s	+03 25' 26.7"	1.7952	1.0026	8.8	126.9	26.6	32.44	133.94	31.13	137.1	Cet
21 Sep 2023	03h19m24.33s	+03 16' 13.8"	1.7953	0.9962	8.8	127.6	26.3	32.67	134.92	30.52	139.5	Cet
22 Sep 2023	03h19m57.00s	+03 06' 51.2"	1.7955	0.9899	8.8	128.4	26.0	32.90	135.91	29.94	142.1	Cet
23 Sep 2023	03h20m27.43s	+02 57' 19.2"	1.7958	0.9837	8.8	129.3	25.6	33.12	136.91	29.40	144.7	Cet
24 Sep 2023	03h20m55.61s	+02 47' 38.3"	1.7960	0.9777	8.8	130.1	25.3	33.33	137.94	28.91	147.4	Cet
25 Sep 2023	03h21m21.52s	+02 37' 48.9"	1.7963	0.9717	8.7	130.9	25.0	33.54	138.98	28.46	150.3	Cet
26 Sep 2023	03h21m45.15s	+02 27' 51.3"	1.7965	0.9659	8.7	131.7	24.6	33.75	140.03	28.07	153.2	Cet

Ephemeride des Kleinplaneten (18) Melpomene

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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27 Sep 2023	03h22m06.48s	+02 17' 46.0"	1.7968	0.9602	8.7	132.5	24.3	33.94	141.10	27.73	156.1	Cet
28 Sep 2023	03h22m25.49s	+02 07' 33.5"	1.7972	0.9546	8.7	133.4	23.9	34.13	142.19	27.45	159.2	Cet
29 Sep 2023	03h22m42.18s	+01 57' 14.1"	1.7975	0.9492	8.6	134.2	23.6	34.32	143.30	27.22	162.3	Cet
30 Sep 2023	03h22m56.53s	+01 46' 48.4"	1.7979	0.9439	8.6	135.0	23.2	34.49	144.42	27.06	165.4	Cet
1 Okt 2023	03h23m08.53s	+01 36' 16.8"	1.7982	0.9387	8.6	135.9	22.8	34.66	145.56	26.95	168.6	Cet
2 Okt 2023	03h23m18.17s	+01 25' 39.8"	1.7986	0.9336	8.6	136.7	22.4	34.82	146.71	26.91	171.8	Cet
3 Okt 2023	03h23m25.44s	+01 14' 58.0"	1.7990	0.9287	8.6	137.6	22.0	34.97	147.88	26.93	175.1	Cet
4 Okt 2023	03h23m30.33s	+01 04' 11.9"	1.7995	0.9240	8.5	138.4	21.7	35.11	149.07	27.01	178.3	Tau
5 Okt 2023	03h23m32.85s	+00 53' 22.1"	1.7999	0.9193	8.5	139.3	21.3	35.24	150.27	27.15	181.4	Tau
6 Okt 2023	03h23m32.98s	+00 42' 29.3"	1.8004	0.9149	8.5	140.1	20.9	35.36	151.49	27.34	184.6	Tau
7 Okt 2023	03h23m30.75s	+00 31' 34.2"	1.8009	0.9105	8.5	141.0	20.4	35.47	152.72	27.58	187.7	Tau
8 Okt 2023	03h23m26.15s	+00 20' 37.4"	1.8014	0.9063	8.5	141.9	20.0	35.58	153.97	27.87	190.7	Tau
9 Okt 2023	03h23m19.21s	+00 09' 39.7"	1.8020	0.9023	8.4	142.7	19.6	35.67	155.24	28.21	193.6	Cet
10 Okt 2023	03h23m09.94s	-00 01' 18.1"	1.8025	0.8985	8.4	143.6	19.2	35.75	156.51	28.58	196.5	Cet
11 Okt 2023	03h22m58.36s	-00 12' 15.4"	1.8031	0.8948	8.4	144.4	18.8	35.82	157.80	28.98	199.2	Cet
12 Okt 2023	03h22m44.50s	-00 23' 11.3"	1.8037	0.8912	8.4	145.3	18.4	35.88	159.11	29.41	201.9	Cet
13 Okt 2023	03h22m28.39s	-00 34' 04.9"	1.8043	0.8879	8.4	146.1	18.0	35.93	160.43	29.86	204.5	Cet
14 Okt 2023	03h22m10.07s	-00 44' 55.4"	1.8049	0.8847	8.3	146.9	17.6	35.96	161.76	30.33	207.0	Cet
15 Okt 2023	03h21m49.58s	-00 55' 42.0"	1.8056	0.8817	8.3	147.8	17.1	35.99	163.10	30.80	209.4	Cet
16 Okt 2023	03h21m26.96s	-01 06' 23.7"	1.8062	0.8788	8.3	148.6	16.7	36.00	164.45	31.28	211.7	Cet
17 Okt 2023	03h21m02.28s	-01 16' 59.6"	1.8069	0.8762	8.3	149.4	16.3	35.99	165.82	31.76	213.9	Cet
18 Okt 2023	03h20m35.58s	-01 27' 28.9"	1.8076	0.8737	8.3	150.2	15.9	35.98	167.19	32.23	216.0	Eri
19 Okt 2023	03h20m06.92s	-01 37' 50.7"	1.8084	0.8714	8.2	151.0	15.5	35.95	168.57	32.69	218.1	Eri
20 Okt 2023	03h19m36.38s	-01 48' 04.0"	1.8091	0.8693	8.2	151.7	15.1	35.91	169.96	33.13	220.0	Eri
21 Okt 2023	03h19m04.01s	-01 58' 08.0"	1.8099	0.8674	8.2	152.5	14.7	35.86	171.36	33.55	222.0	Eri
22 Okt 2023	03h18m29.89s	-02 08' 01.8"	1.8107	0.8656	8.2	153.2	14.4	35.79	172.76	33.95	223.8	Eri
23 Okt 2023	03h17m54.10s	-02 17' 44.5"	1.8115	0.8641	8.2	153.9	14.0	35.71	174.17	34.33	225.6	Eri
24 Okt 2023	03h17m16.72s	-02 27' 15.3"	1.8123	0.8627	8.2	154.6	13.6	35.61	175.58	34.67	227.3	Eri
25 Okt 2023	03h16m37.81s	-02 36' 33.4"	1.8131	0.8616	8.2	155.2	13.3	35.50	176.99	34.99	229.0	Eri
26 Okt 2023	03h15m57.48s	-02 45' 37.9"	1.8140	0.8607	8.1	155.8	13.0	35.38	178.41	35.27	230.6	Eri
27 Okt 2023	03h15m15.79s	-02 54' 28.0"	1.8149	0.8599	8.1	156.4	12.7	35.24	179.83	35.52	232.2	Eri
28 Okt 2023	03h14m32.83s	-03 03' 03.1"	1.8157	0.8593	8.1	156.9	12.4	35.09	181.26	35.74	233.8	Eri
29 Okt 2023	03h13m48.69s	-03 11' 22.4"	1.8167	0.8590	8.1	157.4	12.2	34.93	182.68	35.92	235.3	Eri
30 Okt 2023	03h13m03.45s	-03 19' 25.2"	1.8176	0.8588	8.1	157.8	11.9	34.75	184.10	36.06	236.8	Eri
31 Okt 2023	03h12m17.21s	-03 27' 10.7"	1.8185	0.8589	8.1	158.2	11.7	34.57	185.52	36.16	238.3	Eri
1 Nov 2023	03h11m30.06s	-03 34' 38.2"	1.8195	0.8591	8.1	158.5	11.5	34.36	186.94	36.22	239.8	Eri
2 Nov 2023	03h10m42.09s	-03 41' 47.1"	1.8205	0.8596	8.1	158.8	11.4	34.15	188.35	36.23	241.2	Eri
3 Nov 2023	03h09m53.41s	-03 48' 36.8"	1.8215	0.8603	8.1	159.0	11.3	33.92	189.77	36.20	242.7	Eri
4 Nov 2023	03h09m04.11s	-03 55' 06.5"	1.8225	0.8611	8.1	159.1	11.2	33.68	191.17	36.12	244.1	Eri
5 Nov 2023	03h08m14.30s	-04 01' 15.6"	1.8236	0.8622	8.1	159.2	11.1	33.42	192.57	35.99	245.6	Eri
6 Nov 2023	03h07m24.08s	-04 07' 03.7"	1.8246	0.8635	8.1	159.2	11.1	33.16	193.97	35.82	247.0	Eri
7 Nov 2023	03h06m33.56s	-04 12' 30.1"	1.8257	0.8650	8.1	159.1	11.2	32.88	195.36	35.59	248.4	Eri
8 Nov 2023	03h05m42.85s	-04 17' 34.4"	1.8268	0.8667	8.1	159.0	11.2	32.60	196.74	35.32	249.9	Eri
9 Nov 2023	03h04m52.06s	-04 22' 16.1"	1.8279	0.8686	8.1	158.8	11.3	32.30	198.11	35.00	251.3	Eri
10 Nov 2023	03h04m01.29s	-04 26' 34.8"	1.8290	0.8707	8.1	158.6	11.4	31.99	199.48	34.63	252.8	Eri
11 Nov 2023	03h03m10.66s	-04 30' 30.1"	1.8302	0.8730	8.1	158.3	11.5	31.67	200.83	34.22	254.3	Eri
12 Nov 2023	03h02m20.27s	-04 34' 01.7"	1.8313	0.8756	8.2	157.9	11.7	31.35	202.18	33.76	255.9	Eri
13 Nov 2023	03h01m30.23s	-04 37' 09.3"	1.8325	0.8783	8.2	157.5	11.9	31.01	203.52	33.26	257.4	Eri
14 Nov 2023	03h00m40.66s	-04 39' 52.7"	1.8337	0.8813	8.2	157.1	12.1	30.67	204.84	32.72	259.0	Eri
15 Nov 2023	02h59m51.64s	-04 42' 11.7"	1.8349	0.8844	8.2	156.6	12.4	30.31	206.16	32.13	260.7	Eri
16 Nov 2023	02h59m03.30s	-04 44' 06.1"	1.8361	0.8878	8.2	156.0	12.6	29.95	207.46	31.52	262.4	Eri
17 Nov 2023	02h58m15.73s	-04 45' 36.0"	1.8374	0.8913	8.2	155.4	12.9	29.59	208.75	30.86	264.2	Eri
18 Nov 2023	02h57m29.02s	-04 46' 41.2"	1.8386	0.8951	8.3	154.8	13.2	29.21	210.03	30.18	266.0	Eri
19 Nov 2023	02h56m43.27s	-04 47' 21.9"	1.8399	0.8991	8.3	154.2	13.5	28.83	211.30	29.48	267.9	Eri
20 Nov 2023	02h55m58.57s	-04 47' 38.1"	1.8412	0.9032	8.3	153.5	13.9	28.45	212.56	28.75	269.9	Eri
21 Nov 2023	02h55m15.00s	-04 47' 30.0"	1.8425	0.9076	8.3	152.8	14.2	28.05	213.80	28.01	271.9	Eri
22 Nov 2023	02h54m32.64s	-04 46' 57.7"	1.8439	0.9121	8.4	152.1	14.5	27.66	215.03	27.27	274.1	Eri
23 Nov 2023	02h53m51.56s	-04 46' 01.6"	1.8452	0.9169	8.4	151.3	14.9	27.26	216.25	26.51	276.3	Eri
24 Nov 2023	02h53m11.84s	-04 44' 41.9"	1.8466	0.9218	8.4	150.5	15.3	26.85	217.46	25.76	278.7	Eri
25 Nov 2023	02h52m33.52s	-04 42' 58.8"	1.8479	0.9269	8.4	149.8	15.6	26.44	218.65	25.02	281.2	Eri
26 Nov 2023	02h51m56.68s	-04 40' 52.7"	1.8493	0.9322	8.5	149.0	16.0	26.03	219.83	24.28	283.9	Eri
27 Nov 2023	02h51m21.37s	-04 38' 24.0"	1.8507	0.9377	8.5	148.1	16.3	25.62	221.00	23.57	286.7	Eri
28 Nov 2023	02h50m47.63s	-04 35' 33.0"	1.8522	0.9433	8.5	147.3	16.7	25.20	222.15	22.88	289.6	Eri
29 Nov 2023	02h50m15.53s	-04 32' 20.0"	1.8536	0.9492	8.5	146.5	17.1	24.78	223.29	22.23	292.7	Eri
30 Nov 2023	02h49m45.10s	-04 28' 45.5"	1.8551	0.9552	8.6	145.7	17.5	24.36	224.42	21.61	296.0	Eri
1 Dez 2023	02h49m16.39s	-04 24' 49.9"	1.8565	0.9614	8.6	144.8	17.8	23.94	225.54	21.03	299.5	Eri
2 Dez 2023	02h48m49.43s	-04 20' 33.5"	1.8580	0.9677	8.6	144.0	18.2	23.51	226.65	20.51	303.1	Eri
3 Dez 2023	02h48m24.27s	-04 15' 56.8"	1.8595	0.9743	8.6	143.1	18.6	23.09	227.74	20.04	306.9	Eri
4 Dez 2023	02h48m00.95s	-04 11' 00.1"	1.8610	0.9810	8.7	142.3	18.9	22.66	228.82	19.64	310.9	Eri
5 Dez 2023	02h47m39.48s	-04 05' 44.0"	1.8626	0.9878	8.7	141.4	19.3	22.24	229.89	19.31	315.1	Eri
6 Dez 2023	02h47m19.91s	-04 00' 08.9"	1.8641	0.9949	8.7	140.5	19.6	21.81	230.95	19.05	319.3	Eri
7 Dez 2023	02h47m02.25s	-03 54' 15.3"	1.8657	1.0020	8.7	139.7	20.0	21.39	231.99	18.88	323.6	Eri
8 Dez 2023	02h46m46.54s	-03 48' 03.6"	1.8672	1.0094	8.8	138.8	20.3	20.97	233.03	18.80	328.0	Eri
9 Dez 2023	02h46m32.79s	-03 41' 34.2"	1.8688	1.0169	8.8	138.0	20.7	20.54	234.05	18.80	332.5	Eri

Ephemeride des Kleinplaneten (18) Melpomene

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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10 Dez 2023	02h46m21.03s	-03 34' 47.7"	1.8704	1.0245	8.8	137.1	21.0	20.12	235.06	18.89	336.9	Eri
11 Dez 2023	02h46m11.26s	-03 27' 44.6"	1.8721	1.0323	8.9	136.3	21.3	19.70	236.06	19.07	341.2	Eri
12 Dez 2023	02h46m03.50s	-03 20' 25.3"	1.8737	1.0403	8.9	135.4	21.7	19.28	237.06	19.33	345.4	Eri
13 Dez 2023	02h45m57.77s	-03 12' 50.3"	1.8753	1.0484	8.9	134.5	22.0	18.86	238.04	19.68	349.5	Eri
14 Dez 2023	02h45m54.07s	-03 05' 00.2"	1.8770	1.0566	8.9	133.7	22.3	18.45	239.00	20.10	353.5	Eri
15 Dez 2023	02h45m52.40s	-02 56' 55.4"	1.8787	1.0650	9.0	132.9	22.6	18.04	239.96	20.59	357.3	Eri
16 Dez 2023	02h45m52.77s	-02 48' 36.6"	1.8803	1.0735	9.0	132.0	22.9	17.62	240.91	21.14	0.9	Eri
17 Dez 2023	02h45m55.17s	-02 40' 04.1"	1.8821	1.0822	9.0	131.2	23.2	17.22	241.85	21.75	4.2	Eri
18 Dez 2023	02h45m59.61s	-02 31' 18.6"	1.8838	1.0910	9.0	130.3	23.5	16.81	242.78	22.41	7.4	Eri
19 Dez 2023	02h46m06.06s	-02 22' 20.5"	1.8855	1.0999	9.1	129.5	23.7	16.41	243.70	23.11	10.4	Eri
20 Dez 2023	02h46m14.53s	-02 13' 10.5"	1.8872	1.1089	9.1	128.7	24.0	16.01	244.61	23.85	13.2	Eri
21 Dez 2023	02h46m24.99s	-02 03' 48.9"	1.8890	1.1181	9.1	127.9	24.3	15.61	245.51	24.61	15.8	Eri
22 Dez 2023	02h46m37.73s	-01 54' 13.9"	1.8908	1.1274	9.2	127.0	24.5	15.22	246.41	25.41	18.3	Eri
23 Dez 2023	02h46m52.11s	-01 44' 30.8"	1.8926	1.1368	9.2	126.2	24.8	14.83	247.29	26.22	20.6	Eri
24 Dez 2023	02h47m08.44s	-01 34' 37.8"	1.8944	1.1463	9.2	125.4	25.0	14.44	248.16	27.04	22.7	Eri
25 Dez 2023	02h47m59.35s	-01 24' 35.3"	1.8962	1.1559	9.2	124.6	25.3	14.05	249.03	27.88	24.7	Eri
26 Dez 2023	02h47m46.85s	-01 14' 23.7"	1.8980	1.1656	9.3	123.8	25.5	13.67	249.89	28.73	26.6	Eri
27 Dez 2023	02h48m08.88s	-01 04' 03.6"	1.8998	1.1755	9.3	123.0	25.7	13.29	250.74	29.59	28.3	Cet
28 Dez 2023	02h48m32.77s	-00 53' 35.3"	1.9017	1.1854	9.3	122.2	25.9	12.92	251.58	30.45	30.0	Cet
29 Dez 2023	02h48m58.95s	-00 42' 59.2"	1.9035	1.1955	9.3	121.5	26.1	12.55	252.42	31.31	31.6	Cet
30 Dez 2023	02h49m26.04s	-00 32' 15.8"	1.9054	1.2056	9.4	120.7	26.4	12.18	253.25	32.17	33.0	Cet
31 Dez 2023	02h49m55.37s	-00 21' 25.3"	1.9073	1.2159	9.4	119.9	26.5	11.81	254.07	33.03	34.4	Cet
1 Jan 2024	02h50m26.49s	-00 10' 28.3"	1.9092	1.2262	9.4	119.1	26.7	11.45	254.88	33.89	35.7	Cet
2 Jan 2024	02h50m59.35s	+00 00' 34.8"	1.9111	1.2367	9.4	118.4	26.9	11.09	255.69	34.75	37.0	Cet
3 Jan 2024	02h51m33.94s	+00 11' 44.0"	1.9130	1.2472	9.5	117.6	27.1	10.73	256.49	35.60	38.1	Cet
4 Jan 2024	02h52m10.25s	+00 22' 58.6"	1.9149	1.2579	9.5	116.9	27.3	10.38	257.28	36.45	39.3	Cet
5 Jan 2024	02h52m48.24s	+00 34' 18.5"	1.9169	1.2686	9.5	116.1	27.4	10.04	258.07	37.29	40.3	Cet
6 Jan 2024	02h53m27.91s	+00 45' 43.2"	1.9188	1.2794	9.5	115.4	27.6	9.69	258.85	38.12	41.4	Cet
7 Jan 2024	02h54m09.22s	+00 57' 12.5"	1.9208	1.2903	9.6	114.6	27.7	9.35	259.62	38.95	42.3	Cet
8 Jan 2024	02h54m52.16s	+01 08' 46.1"	1.9227	1.3013	9.6	113.9	27.9	9.01	260.39	39.77	43.3	Cet
9 Jan 2024	02h55m36.71s	+01 20' 23.5"	1.9247	1.3124	9.6	113.2	28.0	8.68	261.15	40.58	44.2	Cet
10 Jan 2024	02h56m22.84s	+01 32' 04.6"	1.9267	1.3235	9.6	112.4	28.2	8.35	261.91	41.38	45.0	Cet
11 Jan 2024	02h57m10.54s	+01 43' 49.0"	1.9287	1.3348	9.7	111.7	28.3	8.03	262.65	42.17	45.8	Cet
12 Jan 2024	02h57m59.79s	+01 55' 36.4"	1.9307	1.3461	9.7	111.0	28.4	7.70	263.40	42.95	46.6	Cet
13 Jan 2024	02h58m50.56s	+02 07' 26.5"	1.9328	1.3575	9.7	110.3	28.5	7.39	264.14	43.72	47.4	Cet
14 Jan 2024	02h59m42.83s	+02 19' 19.0"	1.9348	1.3689	9.7	109.6	28.6	7.07	264.87	44.47	48.1	Cet
15 Jan 2024	03h00m36.58s	+02 31' 13.7"	1.9369	1.3804	9.8	108.9	28.7	6.76	265.60	45.22	48.8	Cet
16 Jan 2024	03h01m31.78s	+02 43' 10.1"	1.9389	1.3920	9.8	108.2	28.8	6.45	266.32	45.94	49.5	Cet
17 Jan 2024	03h02m28.40s	+02 55' 08.1"	1.9410	1.4037	9.8	107.5	28.9	6.15	267.03	46.66	50.2	Cet
18 Jan 2024	03h03m26.42s	+03 07' 07.3"	1.9431	1.4154	9.8	106.8	29.0	5.85	267.74	47.36	50.8	Cet
19 Jan 2024	03h04m25.82s	+03 19' 07.5"	1.9452	1.4272	9.9	106.1	29.1	5.55	268.45	48.04	51.4	Cet
20 Jan 2024	03h05m26.55s	+03 31' 08.3"	1.9473	1.4390	9.9	105.4	29.2	5.25	269.15	48.71	52.0	Cet
21 Jan 2024	03h06m28.61s	+03 43' 09.7"	1.9494	1.4509	9.9	104.7	29.2	4.96	269.85	49.36	52.6	Cet
22 Jan 2024	03h07m31.97s	+03 55' 11.2"	1.9515	1.4628	9.9	104.1	29.3	4.68	270.54	50.00	53.1	Cet
23 Jan 2024	03h08m36.59s	+04 07' 12.7"	1.9536	1.4748	9.9	103.4	29.3	4.39	271.23	50.63	53.7	Cet
24 Jan 2024	03h09m42.47s	+04 19' 14.0"	1.9557	1.4869	10.0	102.7	29.4	4.11	271.91	51.24	54.2	Cet
25 Jan 2024	03h10m49.56s	+04 31' 14.9"	1.9579	1.4990	10.0	102.1	29.5	3.83	272.59	51.84	54.7	Cet
26 Jan 2024	03h11m57.86s	+04 43' 15.1"	1.9600	1.5112	10.0	101.4	29.5	3.56	273.26	52.43	55.2	Cet
27 Jan 2024	03h13m07.33s	+04 55' 14.4"	1.9622	1.5234	10.0	100.8	29.5	3.29	273.93	53.00	55.7	Cet
28 Jan 2024	03h14m17.97s	+05 07' 12.8"	1.9644	1.5356	10.0	100.1	29.6	3.02	274.60	53.56	56.2	Cet
29 Jan 2024	03h15m29.75s	+05 19' 09.9"	1.9665	1.5479	10.1	99.5	29.6	2.75	275.26	54.11	56.6	Cet
30 Jan 2024	03h16m42.64s	+05 31' 05.7"	1.9687	1.5603	10.1	98.8	29.6	2.49	275.92	54.65	57.1	Cet
31 Jan 2024	03h17m56.64s	+05 43' 00.0"	1.9709	1.5727	10.1	98.2	29.7	2.23	276.57	55.18	57.5	Cet
1 Feb 2024	03h19m11.73s	+05 54' 52.5"	1.9731	1.5851	10.1	97.5	29.7	1.98	277.22	55.70	57.9	Cet