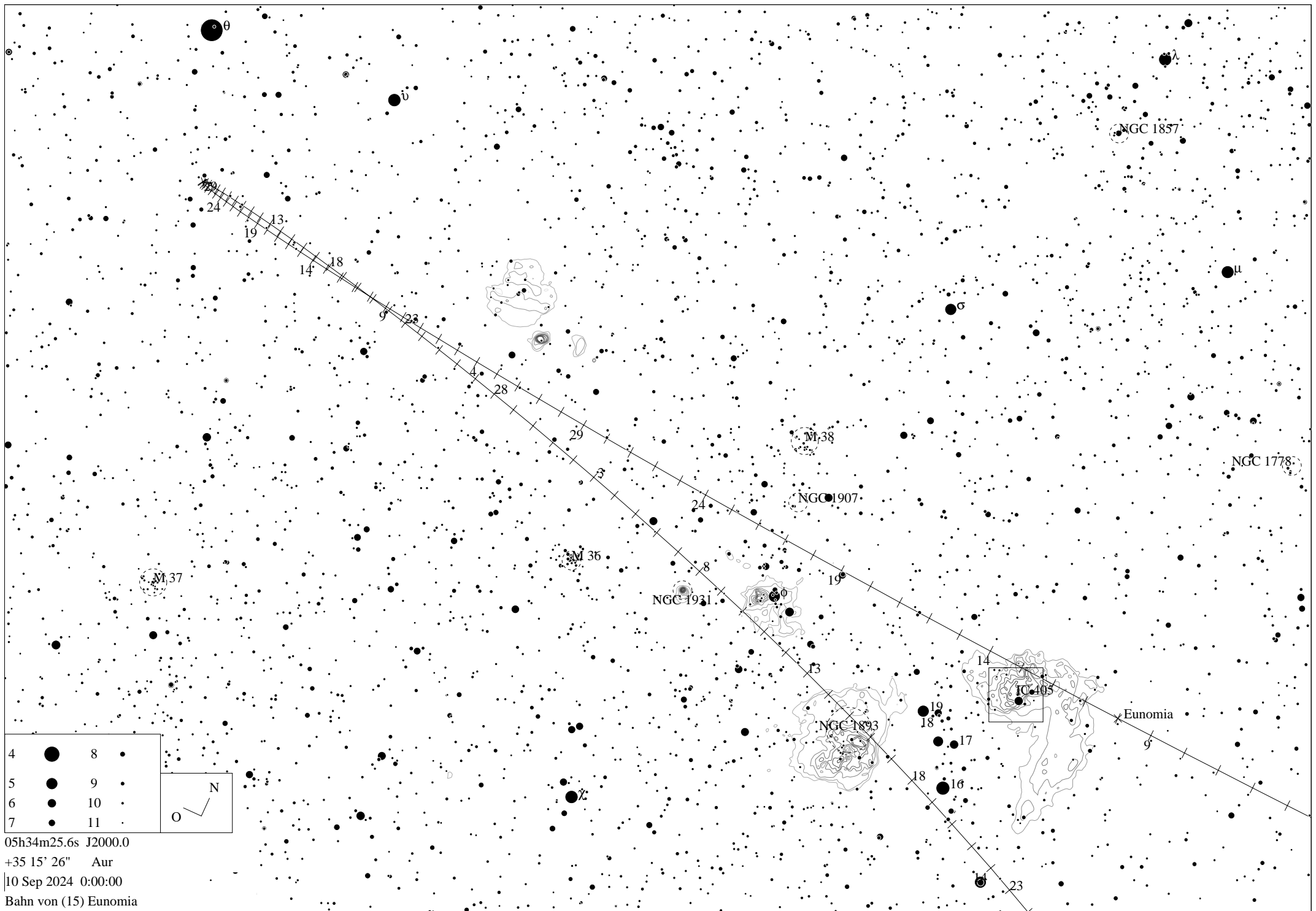
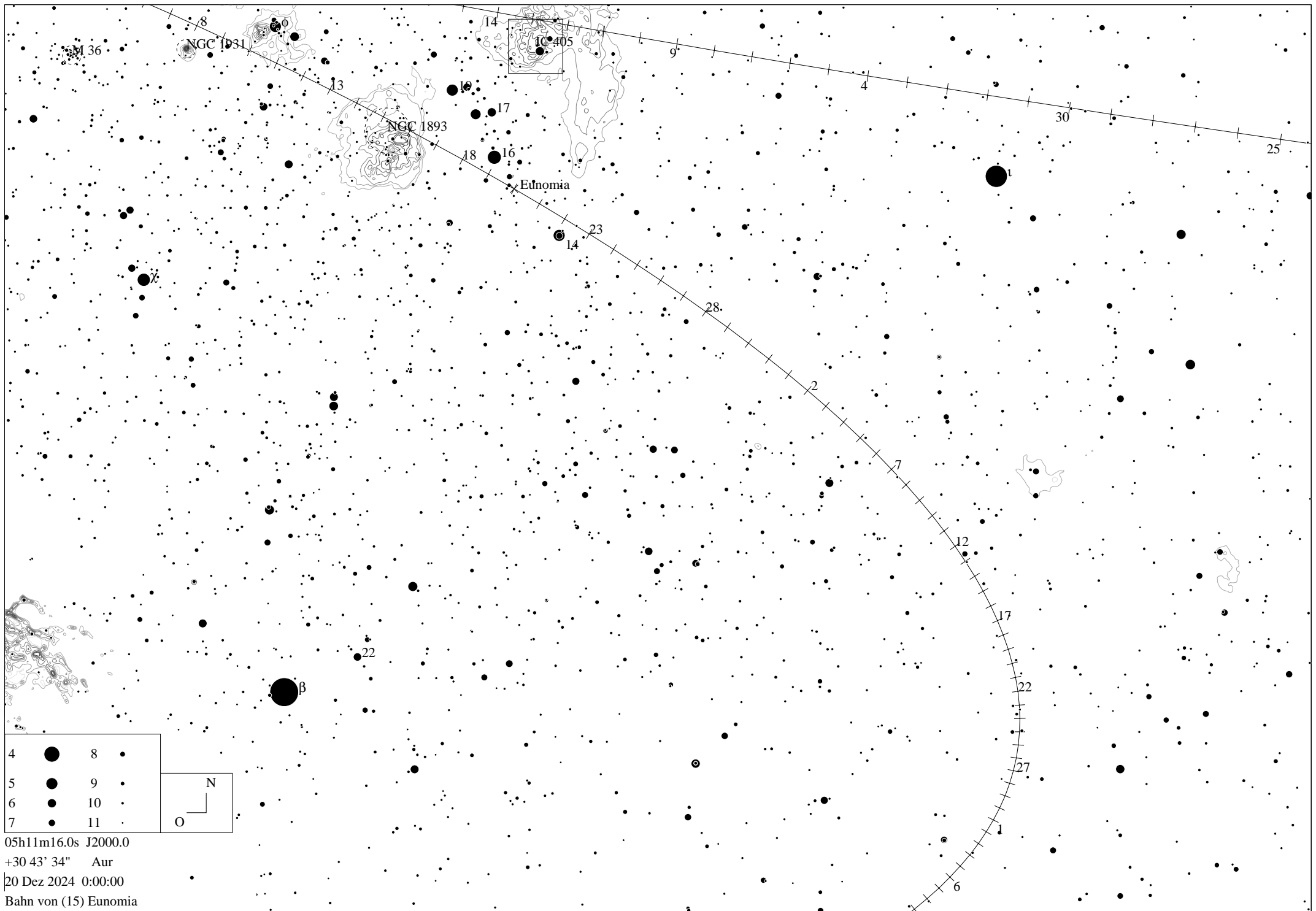


4		8	
5		9	
6		10	
7		11	

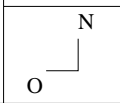
04h48m34.7s J2000.0
 +33 21' 47" Aur
 15 Aug 2024 0:00:00
 Bahn von (15) Eunomia



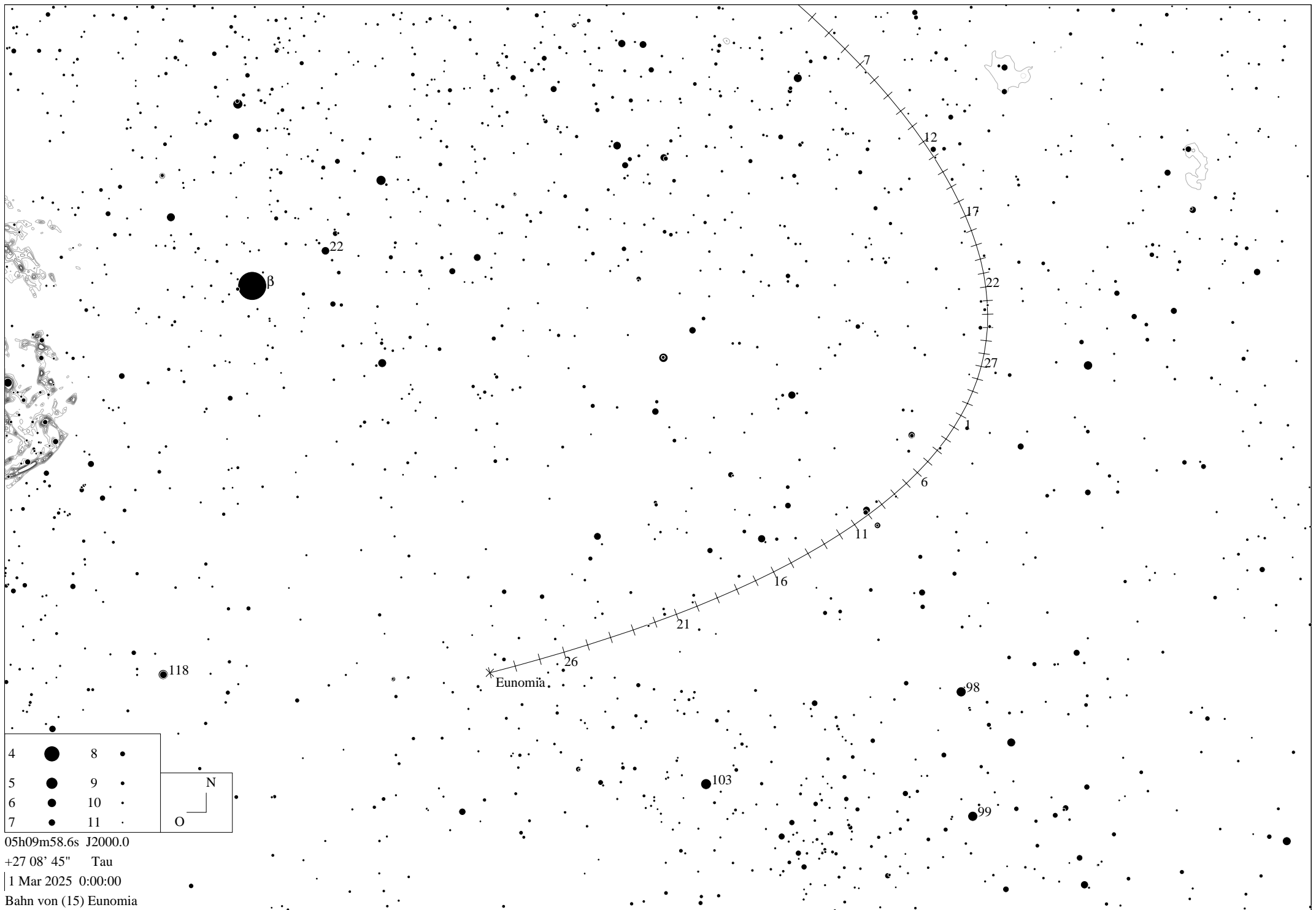
05h34m25.6s J2000.0
 +35 15' 26" Aur
 10 Sep 2024 0:00:00
 Bahn von (15) Eunomia



4		8	
5		9	
6		10	
7		11	



05h11m16.0s J2000.0
 +30 43' 34" Aur
 20 Dez 2024 0:00:00
 Bahn von (15) Eunomia



Ephemeride des Kleinplaneten (15) Eunomia

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
-----	---	-----	-	-----	---	-----	-----	-----	-----	-----	-----	-----
15 Aug 2024	04h26m15.12s	+32 31' 20.9"	2.1541	2.2278	10.0	72.6	26.7	25.56	69.06	62.07	76.6	Per
16 Aug 2024	04h28m09.63s	+32 36' 54.3"	2.1545	2.2179	10.0	73.1	26.7	25.91	69.33	61.67	76.8	Per
17 Aug 2024	04h30m03.59s	+32 42' 21.8"	2.1549	2.2079	10.0	73.7	26.8	26.27	69.61	61.26	76.9	Per
18 Aug 2024	04h31m56.99s	+32 47' 43.6"	2.1553	2.1980	10.0	74.2	26.9	26.64	69.89	60.85	77.1	Per
19 Aug 2024	04h33m49.80s	+32 52' 59.6"	2.1557	2.1880	10.0	74.8	26.9	27.00	70.18	60.43	77.2	Per
20 Aug 2024	04h35m42.02s	+32 58' 10.0"	2.1561	2.1779	10.0	75.3	27.0	27.36	70.46	60.01	77.3	Per
21 Aug 2024	04h37m33.62s	+33 03' 14.7"	2.1566	2.1679	10.0	75.8	27.1	27.72	70.75	59.58	77.5	Per
22 Aug 2024	04h39m24.58s	+33 08' 13.7"	2.1570	2.1578	10.0	76.4	27.1	28.08	71.04	59.14	77.6	Aur
23 Aug 2024	04h41m14.89s	+33 13' 07.3"	2.1575	2.1477	10.0	77.0	27.2	28.45	71.34	58.69	77.7	Aur
24 Aug 2024	04h43m04.52s	+33 17' 55.3"	2.1579	2.1376	9.9	77.5	27.2	28.81	71.63	58.23	77.9	Aur
25 Aug 2024	04h44m53.45s	+33 22' 37.9"	2.1584	2.1275	9.9	78.1	27.3	29.18	71.93	57.76	78.0	Aur
26 Aug 2024	04h46m41.66s	+33 27' 15.0"	2.1589	2.1173	9.9	78.6	27.3	29.55	72.23	57.29	78.1	Aur
27 Aug 2024	04h48m29.12s	+33 31' 46.8"	2.1595	2.1071	9.9	79.2	27.4	29.92	72.54	56.80	78.2	Aur
28 Aug 2024	04h50m15.81s	+33 36' 13.2"	2.1600	2.0969	9.9	79.8	27.4	30.29	72.85	56.30	78.4	Aur
29 Aug 2024	04h52m01.71s	+33 40' 34.4"	2.1605	2.0867	9.9	80.4	27.4	30.66	73.16	55.79	78.5	Aur
30 Aug 2024	04h53m46.78s	+33 44' 50.3"	2.1611	2.0764	9.9	80.9	27.5	31.03	73.47	55.27	78.6	Aur
31 Aug 2024	04h55m31.01s	+33 49' 01.1"	2.1616	2.0662	9.9	81.5	27.5	31.40	73.79	54.75	78.7	Aur
1 Sep 2024	04h57m14.37s	+33 53' 06.8"	2.1622	2.0559	9.9	82.1	27.5	31.78	74.12	54.21	78.8	Aur
2 Sep 2024	04h58m56.84s	+33 57' 07.4"	2.1628	2.0456	9.9	82.7	27.6	32.16	74.44	53.66	78.9	Aur
3 Sep 2024	05h00m38.38s	+34 01' 03.0"	2.1634	2.0353	9.9	83.3	27.6	32.54	74.77	53.10	79.1	Aur
4 Sep 2024	05h02m18.99s	+34 04' 53.6"	2.1640	2.0250	9.8	83.9	27.6	32.92	75.10	52.53	79.2	Aur
5 Sep 2024	05h03m58.63s	+34 08' 39.4"	2.1646	2.0147	9.8	84.5	27.6	33.30	75.44	51.95	79.3	Aur
6 Sep 2024	05h05m37.27s	+34 12' 20.3"	2.1652	2.0044	9.8	85.1	27.6	33.68	75.78	51.35	79.4	Aur
7 Sep 2024	05h07m14.91s	+34 15' 56.5"	2.1658	1.9940	9.8	85.7	27.6	34.07	76.13	50.75	79.5	Aur
8 Sep 2024	05h08m51.50s	+34 19' 28.0"	2.1665	1.9837	9.8	86.3	27.7	34.46	76.48	50.14	79.6	Aur
9 Sep 2024	05h10m27.03s	+34 22' 54.9"	2.1671	1.9733	9.8	86.9	27.7	34.85	76.83	49.52	79.6	Aur
10 Sep 2024	05h12m01.48s	+34 26' 17.2"	2.1678	1.9630	9.8	87.6	27.7	35.24	77.19	48.89	79.7	Aur
11 Sep 2024	05h13m34.82s	+34 29' 35.0"	2.1685	1.9526	9.8	88.2	27.6	35.64	77.56	48.25	79.8	Aur
12 Sep 2024	05h15m07.02s	+34 32' 48.5"	2.1692	1.9422	9.8	88.8	27.6	36.04	77.93	47.60	79.9	Aur
13 Sep 2024	05h16m38.07s	+34 35' 57.6"	2.1699	1.9319	9.8	89.5	27.6	36.44	78.30	46.94	80.0	Aur
14 Sep 2024	05h18m07.93s	+34 39' 02.4"	2.1706	1.9215	9.7	90.1	27.6	36.84	78.68	46.27	80.1	Aur
15 Sep 2024	05h19m36.59s	+34 42' 03.0"	2.1713	1.9112	9.7	90.8	27.6	37.25	79.06	45.58	80.1	Aur
16 Sep 2024	05h21m04.03s	+34 44' 59.5"	2.1721	1.9008	9.7	91.4	27.6	37.66	79.45	44.89	80.2	Aur
17 Sep 2024	05h22m30.21s	+34 47' 51.9"	2.1728	1.8905	9.7	92.1	27.5	38.07	79.85	44.19	80.3	Aur
18 Sep 2024	05h23m55.11s	+34 50' 40.3"	2.1736	1.8801	9.7	92.7	27.5	38.48	80.25	43.47	80.3	Aur
19 Sep 2024	05h25m18.70s	+34 53' 24.9"	2.1743	1.8698	9.7	93.4	27.5	38.90	80.65	42.75	80.4	Aur
20 Sep 2024	05h26m40.96s	+34 56' 05.6"	2.1751	1.8594	9.7	94.1	27.4	39.32	81.07	42.00	80.4	Aur
21 Sep 2024	05h28m01.85s	+34 58' 42.5"	2.1759	1.8491	9.7	94.7	27.4	39.74	81.49	41.25	80.5	Aur
22 Sep 2024	05h29m21.35s	+35 01' 15.8"	2.1767	1.8388	9.6	95.4	27.3	40.17	81.91	40.48	80.5	Aur
23 Sep 2024	05h30m39.41s	+35 03' 45.3"	2.1775	1.8285	9.6	96.1	27.3	40.60	82.34	39.69	80.5	Aur
24 Sep 2024	05h31m56.01s	+35 06' 11.3"	2.1784	1.8182	9.6	96.8	27.2	41.04	82.78	38.89	80.5	Aur
25 Sep 2024	05h33m11.12s	+35 08' 33.8"	2.1792	1.8080	9.6	97.5	27.1	41.47	83.23	38.08	80.6	Aur
26 Sep 2024	05h34m24.70s	+35 10' 52.8"	2.1800	1.7977	9.6	98.2	27.1	41.91	83.68	37.25	80.6	Aur
27 Sep 2024	05h35m36.71s	+35 13' 08.4"	2.1809	1.7875	9.6	98.9	27.0	42.36	84.15	36.40	80.6	Aur
28 Sep 2024	05h36m47.13s	+35 15' 20.6"	2.1817	1.7773	9.6	99.6	26.9	42.81	84.62	35.54	80.6	Aur
29 Sep 2024	05h37m55.92s	+35 17' 29.4"	2.1826	1.7671	9.5	100.4	26.8	43.26	85.09	34.66	80.6	Aur
30 Sep 2024	05h39m03.05s	+35 19' 35.0"	2.1835	1.7570	9.5	101.1	26.7	43.72	85.58	33.77	80.6	Aur
1 Okt 2024	05h40m08.48s	+35 21' 37.3"	2.1844	1.7468	9.5	101.8	26.7	44.18	86.08	32.86	80.5	Aur
2 Okt 2024	05h41m12.19s	+35 23' 36.4"	2.1853	1.7367	9.5	102.6	26.6	44.64	86.58	31.94	80.5	Aur
3 Okt 2024	05h42m14.14s	+35 25' 32.4"	2.1862	1.7267	9.5	103.3	26.4	45.11	87.09	31.01	80.5	Aur
4 Okt 2024	05h43m14.31s	+35 27' 25.1"	2.1872	1.7167	9.5	104.1	26.3	45.58	87.62	30.06	80.4	Aur
5 Okt 2024	05h44m12.66s	+35 29' 14.8"	2.1881	1.7067	9.5	104.8	26.2	46.06	88.15	29.09	80.4	Aur
6 Okt 2024	05h45m09.16s	+35 31' 01.3"	2.1890	1.6967	9.4	105.6	26.1	46.54	88.70	28.11	80.3	Aur
7 Okt 2024	05h46m03.78s	+35 32' 44.8"	2.1900	1.6868	9.4	106.4	26.0	47.02	89.26	27.12	80.2	Aur
8 Okt 2024	05h46m56.49s	+35 34' 25.2"	2.1910	1.6770	9.4	107.2	25.8	47.51	89.82	26.11	80.1	Aur
9 Okt 2024	05h47m47.27s	+35 36' 02.4"	2.1920	1.6672	9.4	108.0	25.7	48.01	90.40	25.10	80.0	Aur
10 Okt 2024	05h48m36.09s	+35 37' 36.7"	2.1929	1.6574	9.4	108.8	25.5	48.51	91.00	24.06	79.9	Aur
11 Okt 2024	05h49m22.91s	+35 39' 07.8"	2.1939	1.6477	9.4	109.6	25.4	49.01	91.60	23.02	79.8	Aur
12 Okt 2024	05h50m07.72s	+35 40' 35.8"	2.1949	1.6381	9.3	110.4	25.2	49.52	92.22	21.96	79.6	Aur
13 Okt 2024	05h50m50.48s	+35 42' 00.7"	2.1960	1.6285	9.3	111.2	25.1	50.03	92.86	20.89	79.4	Aur
14 Okt 2024	05h51m31.18s	+35 43' 22.5"	2.1970	1.6190	9.3	112.0	24.9	50.55	93.51	19.81	79.3	Aur
15 Okt 2024	05h52m09.77s	+35 44' 41.1"	2.1980	1.6095	9.3	112.8	24.7	51.07	94.17	18.71	79.0	Aur
16 Okt 2024	05h52m46.24s	+35 45' 56.6"	2.1991	1.6001	9.3	113.7	24.5	51.60	94.86	17.61	78.8	Aur
17 Okt 2024	05h53m20.56s	+35 47' 08.7"	2.2001	1.5908	9.3	114.5	24.3	52.13	95.55	16.49	78.5	Aur
18 Okt 2024	05h53m52.70s	+35 48' 17.6"	2.2012	1.5816	9.2	115.4	24.1	52.66	96.27	15.35	78.2	Aur
19 Okt 2024	05h54m22.63s	+35 49' 23.1"	2.2023	1.5724	9.2	116.2	23.9	53.20	97.01	14.20	77.8	Aur
20 Okt 2024	05h54m50.32s	+35 50' 25.2"	2.2034	1.5634	9.2	117.1	23.7	53.74	97.77	13.04	77.4	Aur
21 Okt 2024	05h55m15.74s	+35 51' 23.8"	2.2045	1.5544	9.2	118.0	23.5	54.29	98.54	11.86	76.9	Aur
22 Okt 2024	05h55m38.86s	+35 52' 18.7"	2.2056	1.5454	9.2	118.9	23.3	54.84	99.34	10.67	76.3	Aur
23 Okt 2024	05h55m59.65s	+35 53' 10.0"	2.2067	1.5366	9.2	119.8	23.0	55.40	100.17	9.47	75.5	Aur
24 Okt 2024	05h56m18.10s	+35 53' 57.4"	2.2078	1.5279	9.1	120.7	22.8	55.96	101.02	8.25	74.5	Aur
25 Okt 2024	05h56m34.16s	+35 54' 40.9"	2.2090	1.5193	9.1	121.6	22.6	56.52	101.89	7.03	73.2	Aur
26 Okt 2024	05h56m47.82s	+35 55' 20.2"	2.2101	1.5107	9.1	122.5	22.3	57.09	102.80	5.79	71.4	Aur
27 Okt 2024	05h56m59.06s	+35 55' 55.4"	2.2112	1.5023	9.1	123.4	22.0	57.65	103.73	4.56	68.6	Aur

Ephemeride des Kleinplaneten (15) Eunomia

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
-----	---	-----	-	-----	---	-----	-----	-----	-----	-----	-----	-----
28 Okt 2024	05h57m07.85s	+35 56' 26.1"	2.2124	1.4940	9.1	124.4	21.8	58.23	104.69	3.33	63.9	Aur
29 Okt 2024	05h57m14.19s	+35 56' 52.2"	2.2136	1.4858	9.0	125.3	21.5	58.80	105.69	2.15	53.8	Aur
30 Okt 2024	05h57m18.06s	+35 57' 13.6"	2.2148	1.4777	9.0	126.2	21.2	59.38	106.73	1.16	23.8	Aur
31 Okt 2024	05h57m19.44s	+35 57' 30.0"	2.2160	1.4697	9.0	127.2	20.9	59.96	107.80	1.16	316.3	Aur
1 Nov 2024	05h57m18.33s	+35 57' 41.2"	2.2172	1.4619	9.0	128.2	20.6	60.54	108.91	2.17	286.5	Aur
2 Nov 2024	05h57m14.73s	+35 57' 47.1"	2.2184	1.4542	9.0	129.1	20.3	61.13	110.06	3.38	276.4	Aur
3 Nov 2024	05h57m08.62s	+35 57' 47.4"	2.2196	1.4466	8.9	130.1	20.0	61.71	111.26	4.63	271.6	Aur
4 Nov 2024	05h57m00.02s	+35 57' 41.9"	2.2208	1.4391	8.9	131.1	19.7	62.29	112.51	5.91	268.8	Aur
5 Nov 2024	05h56m48.92s	+35 57' 30.3"	2.2220	1.4319	8.9	132.1	19.3	62.88	113.81	7.19	266.9	Aur
6 Nov 2024	05h56m35.33s	+35 57' 12.4"	2.2233	1.4247	8.9	133.1	19.0	63.46	115.16	8.47	265.5	Aur
7 Nov 2024	05h56m19.27s	+35 56' 47.9"	2.2245	1.4177	8.9	134.1	18.7	64.04	116.58	9.76	264.4	Aur
8 Nov 2024	05h56m00.74s	+35 56' 16.7"	2.2258	1.4109	8.8	135.1	18.3	64.61	118.05	11.04	263.5	Aur
9 Nov 2024	05h55m39.77s	+35 55' 38.3"	2.2271	1.4042	8.8	136.2	17.9	65.18	119.59	12.31	262.7	Aur
10 Nov 2024	05h55m16.37s	+35 54' 52.7"	2.2283	1.3977	8.8	137.2	17.6	65.75	121.21	13.57	262.0	Aur
11 Nov 2024	05h54m50.58s	+35 53' 59.4"	2.2296	1.3913	8.8	138.2	17.2	66.31	122.89	14.83	261.4	Aur
12 Nov 2024	05h54m22.40s	+35 52' 58.2"	2.2309	1.3852	8.8	139.3	16.8	66.86	124.66	16.08	260.8	Aur
13 Nov 2024	05h53m51.89s	+35 51' 49.0"	2.2322	1.3792	8.7	140.3	16.4	67.41	126.52	17.31	260.3	Aur
14 Nov 2024	05h53m19.06s	+35 50' 31.2"	2.2335	1.3733	8.7	141.4	16.0	67.94	128.46	18.54	259.8	Aur
15 Nov 2024	05h52m43.94s	+35 49' 04.8"	2.2349	1.3677	8.7	142.5	15.6	68.46	130.50	19.75	259.3	Aur
16 Nov 2024	05h52m06.59s	+35 47' 29.5"	2.2362	1.3623	8.7	143.5	15.2	68.96	132.64	20.94	258.8	Aur
17 Nov 2024	05h51m27.02s	+35 45' 44.9"	2.2375	1.3570	8.6	144.6	14.8	69.45	134.88	22.12	258.4	Aur
18 Nov 2024	05h50m45.30s	+35 43' 50.8"	2.2389	1.3520	8.6	145.7	14.4	69.92	137.23	23.29	257.9	Aur
19 Nov 2024	05h50m01.45s	+35 41' 47.0"	2.2402	1.3471	8.6	146.8	14.0	70.37	139.69	24.43	257.5	Aur
20 Nov 2024	05h49m15.53s	+35 39' 33.1"	2.2416	1.3424	8.6	147.9	13.6	70.79	142.27	25.55	257.0	Aur
21 Nov 2024	05h48m27.61s	+35 37' 08.9"	2.2430	1.3380	8.6	148.9	13.1	71.19	144.97	26.65	256.6	Aur
22 Nov 2024	05h47m37.72s	+35 34' 34.3"	2.2444	1.3338	8.5	150.0	12.7	71.56	147.78	27.73	256.2	Aur
23 Nov 2024	05h46m45.96s	+35 31' 48.8"	2.2457	1.3298	8.5	151.1	12.3	71.90	150.71	28.77	255.7	Aur
24 Nov 2024	05h45m52.37s	+35 28' 52.4"	2.2471	1.3260	8.5	152.2	11.8	72.20	153.75	29.79	255.3	Aur
25 Nov 2024	05h44m57.04s	+35 25' 44.8"	2.2485	1.3224	8.5	153.3	11.4	72.46	156.91	30.77	254.8	Aur
26 Nov 2024	05h44m00.05s	+35 22' 25.8"	2.2499	1.3191	8.5	154.4	10.9	72.69	160.16	31.72	254.4	Aur
27 Nov 2024	05h43m01.48s	+35 18' 55.3"	2.2514	1.3160	8.4	155.5	10.5	72.87	163.49	32.63	253.9	Aur
28 Nov 2024	05h42m01.43s	+35 15' 13.2"	2.2528	1.3131	8.4	156.6	10.0	73.00	166.91	33.50	253.4	Aur
29 Nov 2024	05h40m59.98s	+35 11' 19.2"	2.2542	1.3105	8.4	157.6	9.6	73.09	170.38	34.33	253.0	Aur
30 Nov 2024	05h39m57.23s	+35 07' 13.3"	2.2557	1.3081	8.4	158.7	9.1	73.13	173.90	35.11	252.5	Aur
1 Dez 2024	05h38m53.29s	+35 02' 55.5"	2.2571	1.3060	8.4	159.7	8.7	73.11	177.43	35.85	252.0	Aur
2 Dez 2024	05h37m48.26s	+34 58' 25.7"	2.2586	1.3041	8.3	160.8	8.3	73.05	180.97	36.54	251.5	Aur
3 Dez 2024	05h36m42.24s	+34 53' 43.9"	2.2600	1.3025	8.3	161.8	7.8	72.94	184.50	37.18	251.0	Aur
4 Dez 2024	05h35m35.36s	+34 48' 50.1"	2.2615	1.3011	8.3	162.8	7.4	72.77	187.98	37.78	250.5	Aur
5 Dez 2024	05h34m27.71s	+34 43' 44.4"	2.2630	1.3000	8.3	163.7	7.0	72.56	191.41	38.31	250.0	Aur
6 Dez 2024	05h33m19.43s	+34 38' 26.9"	2.2645	1.2991	8.3	164.7	6.6	72.29	194.77	38.80	249.4	Aur
7 Dez 2024	05h32m10.61s	+34 32' 57.6"	2.2660	1.2985	8.2	165.5	6.2	71.98	198.05	39.23	248.9	Aur
8 Dez 2024	05h31m01.39s	+34 27' 16.8"	2.2675	1.2982	8.2	166.4	5.9	71.63	201.23	39.61	248.3	Aur
9 Dez 2024	05h29m51.86s	+34 21' 24.6"	2.2690	1.2982	8.2	167.1	5.6	71.23	204.30	39.94	247.8	Aur
10 Dez 2024	05h28m42.16s	+34 15' 21.2"	2.2705	1.2984	8.2	167.8	5.3	70.79	207.27	40.21	247.2	Aur
11 Dez 2024	05h27m32.39s	+34 09' 06.9"	2.2720	1.2988	8.2	168.4	5.0	70.32	210.12	40.43	246.6	Aur
12 Dez 2024	05h26m22.66s	+34 02' 42.0"	2.2735	1.2996	8.2	168.8	4.8	69.81	212.85	40.60	246.0	Aur
13 Dez 2024	05h25m13.09s	+33 56' 06.7"	2.2751	1.3006	8.2	169.2	4.7	69.27	215.47	40.71	245.4	Aur
14 Dez 2024	05h24m03.78s	+33 49' 21.4"	2.2766	1.3019	8.2	169.4	4.6	68.70	217.97	40.77	244.8	Aur
15 Dez 2024	05h22m54.83s	+33 42' 26.5"	2.2782	1.3034	8.2	169.4	4.5	68.10	220.37	40.78	244.2	Aur
16 Dez 2024	05h21m46.35s	+33 35' 22.2"	2.2797	1.3053	8.2	169.3	4.6	67.48	222.65	40.74	243.6	Aur
17 Dez 2024	05h20m38.45s	+33 28' 09.0"	2.2813	1.3073	8.2	169.1	4.7	66.83	224.84	40.66	242.9	Aur
18 Dez 2024	05h19m31.22s	+33 20' 47.2"	2.2829	1.3097	8.2	168.7	4.8	66.17	226.92	40.52	242.2	Aur
19 Dez 2024	05h18m24.75s	+33 13' 17.5"	2.2844	1.3123	8.2	168.2	5.0	65.49	228.91	40.33	241.6	Aur
20 Dez 2024	05h17m19.15s	+33 05' 40.0"	2.2860	1.3152	8.2	167.6	5.3	64.79	230.82	40.09	240.9	Aur
21 Dez 2024	05h16m14.52s	+32 57' 55.5"	2.2876	1.3184	8.3	167.0	5.6	64.08	232.64	39.81	240.1	Aur
22 Dez 2024	05h15m10.94s	+32 50' 04.2"	2.2892	1.3218	8.3	166.2	5.9	63.35	234.38	39.48	239.4	Aur
23 Dez 2024	05h14m08.51s	+32 42' 06.8"	2.2908	1.3255	8.3	165.4	6.2	62.62	236.04	39.10	238.6	Aur
24 Dez 2024	05h13m07.31s	+32 34' 03.8"	2.2924	1.3295	8.3	164.5	6.6	61.87	237.64	38.68	237.9	Aur
25 Dez 2024	05h12m07.43s	+32 25' 55.6"	2.2940	1.3338	8.4	163.5	7.0	61.12	239.17	38.21	237.0	Aur
26 Dez 2024	05h11m08.95s	+32 17' 42.8"	2.2957	1.3383	8.4	162.6	7.4	60.35	240.64	37.70	236.2	Aur
27 Dez 2024	05h10m11.96s	+32 09' 25.9"	2.2973	1.3430	8.4	161.6	7.8	59.59	242.05	37.15	235.3	Aur
28 Dez 2024	05h09m16.51s	+32 01' 05.6"	2.2989	1.3480	8.4	160.6	8.2	58.81	243.41	36.57	234.4	Aur
29 Dez 2024	05h08m22.70s	+31 52' 42.2"	2.3006	1.3533	8.5	159.5	8.6	58.04	244.72	35.95	233.5	Aur
30 Dez 2024	05h07m30.57s	+31 44' 16.4"	2.3022	1.3588	8.5	158.5	9.0	57.26	245.99	35.29	232.5	Aur
31 Dez 2024	05h06m40.20s	+31 35' 48.7"	2.3039	1.3646	8.5	157.4	9.4	56.48	247.21	34.60	231.4	Aur
1 Jan 2025	05h05m51.65s	+31 27' 19.6"	2.3055	1.3707	8.5	156.4	9.8	55.69	248.38	33.89	230.4	Aur
2 Jan 2025	05h05m14.97s	+31 18' 49.7"	2.3072	1.3770	8.6	155.3	10.3	54.91	249.52	33.15	229.2	Aur
3 Jan 2025	05h04m20.21s	+31 10' 19.4"	2.3088	1.3835	8.6	154.2	10.7	54.13	250.63	32.39	228.0	Aur
4 Jan 2025	05h03m37.41s	+31 01' 49.3"	2.3105	1.3903	8.6	153.1	11.1	53.34	251.70	31.60	226.8	Aur
5 Jan 2025	05h02m56.62s	+30 53' 19.9"	2.3122	1.3973	8.7	152.0	11.5	52.56	252.74	30.81	225.5	Aur
6 Jan 2025	05h02m17.87s	+30 44' 51.6"	2.3139	1.4045	8.7	150.9	11.9	51.78	253.75	30.00	224.1	Aur
7 Jan 2025	05h01m41.19s	+30 36' 24.9"	2.3156	1.4120	8.7	149.8	12.3	51.00	254.73	29.18	222.6	Aur
8 Jan 2025	05h01m06.60s	+30 28' 00.2"	2.3173	1.4197	8.7	148.8	12.7	50.23	255.68	28.37	221.1	Aur
9 Jan 2025	05h00m34.13s	+30 19' 37.9"	2.3190	1.4276	8.8	147.7	13.1	49.46	256.61	27.55	219.4	Aur

Ephemeride des Kleinplaneten (15) Eunomia

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
-----	--	-----	-	-----	---	-----	-----	-----	-----	-----	-----	-----
10 Jan 2025	05h00m03.79s	+30 11' 18.5"	2.3207	1.4357	8.8	146.6	13.5	48.69	257.51	26.73	217.7	Aur
11 Jan 2025	04h59m35.59s	+30 03' 02.3"	2.3224	1.4441	8.8	145.5	13.9	47.93	258.40	25.93	215.9	Aur
12 Jan 2025	04h59m09.53s	+29 54' 49.7"	2.3241	1.4526	8.9	144.4	14.2	47.17	259.26	25.14	213.9	Aur
13 Jan 2025	04h58m45.64s	+29 46' 40.9"	2.3259	1.4614	8.9	143.4	14.6	46.41	260.11	24.36	211.8	Aur
14 Jan 2025	04h58m23.89s	+29 38' 36.3"	2.3276	1.4703	8.9	142.3	15.0	45.66	260.93	23.60	209.7	Aur
15 Jan 2025	04h58m04.31s	+29 30' 36.3"	2.3293	1.4795	8.9	141.2	15.3	44.92	261.74	22.87	207.3	Aur
16 Jan 2025	04h57m46.88s	+29 22' 41.0"	2.3311	1.4889	9.0	140.2	15.7	44.17	262.53	22.17	204.9	Aur
17 Jan 2025	04h57m31.61s	+29 14' 50.7"	2.3328	1.4984	9.0	139.1	16.0	43.44	263.31	21.50	202.3	Aur
18 Jan 2025	04h57m18.48s	+29 07' 05.7"	2.3346	1.5081	9.0	138.1	16.4	42.71	264.07	20.87	199.5	Aur
19 Jan 2025	04h57m07.50s	+28 59' 26.1"	2.3363	1.5181	9.1	137.0	16.7	41.99	264.82	20.28	196.6	Aur
20 Jan 2025	04h56m58.65s	+28 51' 52.3"	2.3381	1.5282	9.1	136.0	17.0	41.27	265.55	19.74	193.5	Aur
21 Jan 2025	04h56m51.94s	+28 44' 24.3"	2.3398	1.5384	9.1	135.0	17.3	40.56	266.27	19.25	190.3	Aur
22 Jan 2025	04h56m47.33s	+28 37' 02.3"	2.3416	1.5489	9.1	133.9	17.6	39.85	266.98	18.83	186.9	Tau
23 Jan 2025	04h56m44.84s	+28 29' 46.5"	2.3434	1.5595	9.2	132.9	17.9	39.15	267.68	18.46	183.4	Tau
24 Jan 2025	04h56m44.44s	+28 22' 37.1"	2.3452	1.5703	9.2	131.9	18.2	38.46	268.37	18.16	179.8	Tau
25 Jan 2025	04h56m46.12s	+28 15' 34.0"	2.3470	1.5812	9.2	130.9	18.5	37.77	269.04	17.93	176.1	Tau
26 Jan 2025	04h56m49.86s	+28 08' 37.5"	2.3487	1.5923	9.2	129.9	18.8	37.09	269.71	17.77	172.3	Tau
27 Jan 2025	04h56m55.65s	+28 01' 47.6"	2.3505	1.6036	9.3	128.9	19.0	36.41	270.37	17.69	168.5	Tau
28 Jan 2025	04h57m03.47s	+27 55' 04.3"	2.3523	1.6150	9.3	127.9	19.3	35.75	271.02	17.68	164.7	Tau
29 Jan 2025	04h57m13.30s	+27 48' 27.8"	2.3541	1.6265	9.3	126.9	19.5	35.08	271.66	17.74	161.0	Tau
30 Jan 2025	04h57m25.12s	+27 41' 58.0"	2.3560	1.6382	9.3	126.0	19.8	34.43	272.29	17.88	157.3	Tau
31 Jan 2025	04h57m38.92s	+27 35' 34.9"	2.3578	1.6501	9.4	125.0	20.0	33.78	272.91	18.08	153.7	Tau
1 Feb 2025	04h57m54.66s	+27 29' 18.7"	2.3596	1.6620	9.4	124.1	20.2	33.14	273.53	18.34	150.2	Tau
2 Feb 2025	04h58m12.33s	+27 23' 09.2"	2.3614	1.6741	9.4	123.1	20.5	32.50	274.14	18.66	146.9	Tau
3 Feb 2025	04h58m31.90s	+27 17' 06.4"	2.3632	1.6863	9.4	122.2	20.7	31.88	274.74	19.04	143.7	Tau
4 Feb 2025	04h58m53.34s	+27 11' 10.3"	2.3651	1.6986	9.5	121.2	20.9	31.25	275.34	19.46	140.7	Tau
5 Feb 2025	04h59m16.61s	+27 05' 20.9"	2.3669	1.7111	9.5	120.3	21.1	30.64	275.92	19.93	137.9	Tau
6 Feb 2025	04h59m41.70s	+26 59' 38.0"	2.3687	1.7236	9.5	119.4	21.3	30.03	276.51	20.44	135.3	Tau
7 Feb 2025	05h00m08.57s	+26 54' 01.6"	2.3706	1.7363	9.5	118.5	21.5	29.42	277.09	20.97	132.8	Tau
8 Feb 2025	05h00m37.19s	+26 48' 31.7"	2.3724	1.7491	9.6	117.5	21.6	28.83	277.66	21.54	130.5	Tau
9 Feb 2025	05h01m07.53s	+26 43' 08.1"	2.3743	1.7619	9.6	116.6	21.8	28.24	278.22	22.12	128.3	Tau
10 Feb 2025	05h01m39.56s	+26 37' 50.7"	2.3761	1.7749	9.6	115.8	22.0	27.65	278.79	22.73	126.3	Tau
11 Feb 2025	05h02m13.24s	+26 32' 39.4"	2.3780	1.7880	9.6	114.9	22.1	27.07	279.34	23.35	124.4	Tau
12 Feb 2025	05h02m48.55s	+26 27' 34.2"	2.3798	1.8011	9.6	114.0	22.3	26.50	279.89	23.98	122.6	Tau
13 Feb 2025	05h03m25.46s	+26 22' 34.9"	2.3817	1.8144	9.7	113.1	22.4	25.94	280.44	24.63	121.0	Tau
14 Feb 2025	05h04m03.94s	+26 17' 41.4"	2.3836	1.8277	9.7	112.2	22.6	25.38	280.98	25.28	119.5	Tau
15 Feb 2025	05h04m43.96s	+26 12' 53.5"	2.3854	1.8411	9.7	111.4	22.7	24.82	281.52	25.94	118.1	Tau
16 Feb 2025	05h05m25.50s	+26 08' 11.2"	2.3873	1.8546	9.7	110.5	22.8	24.27	282.06	26.61	116.8	Tau
17 Feb 2025	05h06m08.53s	+26 03' 34.3"	2.3892	1.8682	9.7	109.7	22.9	23.73	282.59	27.27	115.5	Tau
18 Feb 2025	05h06m53.02s	+25 59' 02.7"	2.3911	1.8818	9.8	108.8	23.0	23.19	283.12	27.94	114.4	Tau
19 Feb 2025	05h07m38.94s	+25 54' 36.3"	2.3930	1.8955	9.8	108.0	23.1	22.66	283.64	28.61	113.3	Tau
20 Feb 2025	05h08m26.28s	+25 50' 14.9"	2.3949	1.9093	9.8	107.1	23.2	22.13	284.16	29.28	112.3	Tau
21 Feb 2025	05h09m15.01s	+25 45' 58.4"	2.3968	1.9231	9.8	106.3	23.3	21.61	284.68	29.95	111.4	Tau
22 Feb 2025	05h10m05.10s	+25 41' 46.6"	2.3986	1.9370	9.9	105.5	23.4	21.10	285.19	30.61	110.5	Tau
23 Feb 2025	05h10m56.53s	+25 37' 39.4"	2.4005	1.9510	9.9	104.7	23.5	20.59	285.70	31.27	109.6	Tau
24 Feb 2025	05h11m49.27s	+25 33' 36.7"	2.4025	1.9650	9.9	103.8	23.6	20.08	286.21	31.93	108.9	Tau
25 Feb 2025	05h12m43.31s	+25 29' 38.2"	2.4044	1.9791	9.9	103.0	23.6	19.58	286.71	32.58	108.1	Tau
26 Feb 2025	05h13m38.62s	+25 25' 44.0"	2.4063	1.9932	9.9	102.2	23.7	19.09	287.21	33.23	107.5	Tau
27 Feb 2025	05h14m35.18s	+25 21' 53.7"	2.4082	2.0074	9.9	101.4	23.8	18.60	287.71	33.87	106.8	Tau
28 Feb 2025	05h15m32.96s	+25 18' 07.3"	2.4101	2.0216	10.0	100.7	23.8	18.11	288.21	34.51	106.2	Tau
1 Mar 2025	05h16m31.94s	+25 14' 24.6"	2.4120	2.0359	10.0	99.9	23.9	17.63	288.70	35.13	105.7	Tau