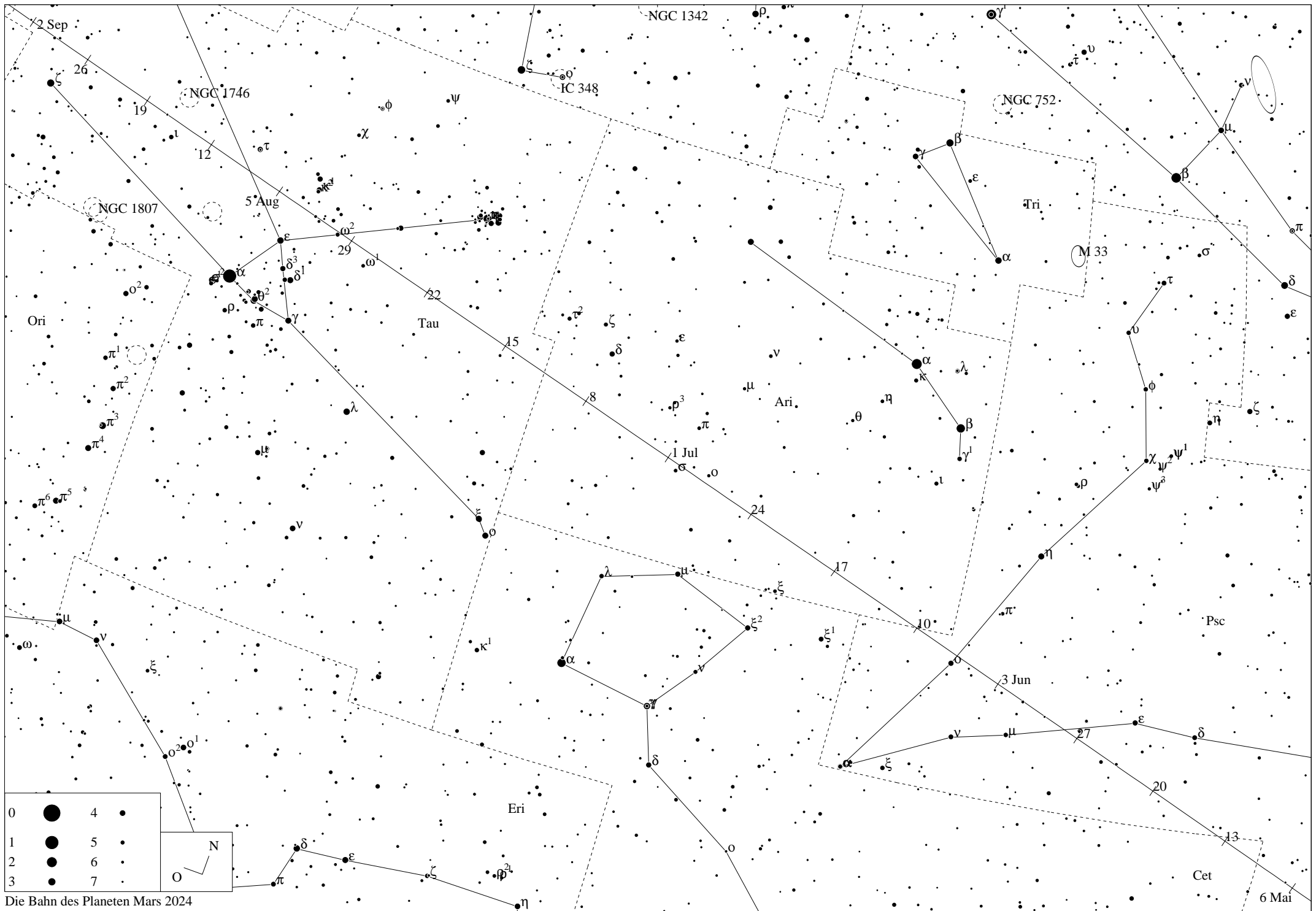
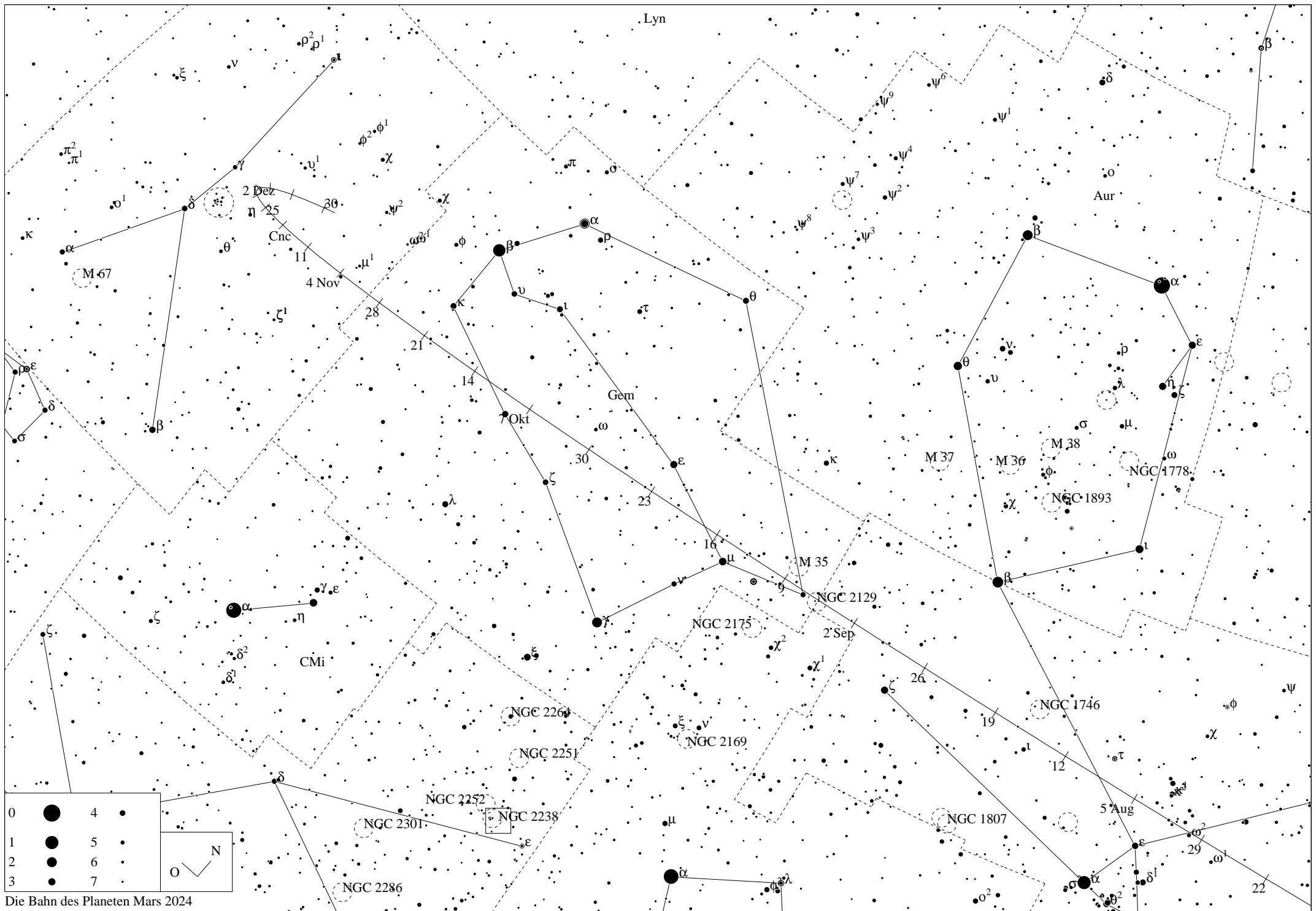


Die Bahn des Planeten Mars 2024



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EPHEMERIDE 2023 – Mars

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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1 Jan 2024	17h46m47.00s	-23 57' 09.1"	1.4807	2.4238	1.4	12.7	8.4	-55.27	46.68	111.70	92.1 Sgr
2 Jan 2024	17h50m01.72s	-23 58' 37.8"	1.4794	2.4208	1.4	13.0	8.6	-55.21	46.94	111.81	91.8 Sgr
3 Jan 2024	17h53m16.70s	-23 59' 51.5"	1.4781	2.4177	1.4	13.3	8.8	-55.15	47.20	111.93	91.5 Sgr
4 Jan 2024	17h56m31.94s	-24 00' 50.1"	1.4769	2.4146	1.4	13.6	9.0	-55.08	47.45	112.04	91.2 Sgr
5 Jan 2024	17h59m47.42s	-24 01' 33.5"	1.4756	2.4115	1.4	13.8	9.2	-55.02	47.70	112.15	90.8 Sgr
6 Jan 2024	18h03m03.13s	-24 02' 01.6"	1.4743	2.4083	1.4	14.1	9.4	-54.94	47.94	112.26	90.5 Sgr
7 Jan 2024	18h06m19.05s	-24 02' 14.4"	1.4731	2.4052	1.4	14.4	9.6	-54.87	48.17	112.37	90.2 Sgr
8 Jan 2024	18h09m35.17s	-24 02' 11.9"	1.4718	2.4019	1.4	14.7	9.7	-54.79	48.40	112.48	89.9 Sgr
9 Jan 2024	18h12m51.47s	-24 01' 54.1"	1.4706	2.3987	1.4	14.9	9.9	-54.70	48.62	112.59	89.5 Sgr
10 Jan 2024	18h16m07.93s	-24 01' 20.7"	1.4693	2.3955	1.4	15.2	10.1	-54.62	48.84	112.69	89.2 Sgr
11 Jan 2024	18h19m24.54s	-24 00' 32.0"	1.4681	2.3922	1.4	15.5	10.3	-54.53	49.05	112.79	88.9 Sgr
12 Jan 2024	18h22m41.29s	-23 59' 27.7"	1.4668	2.3889	1.4	15.8	10.5	-54.43	49.26	112.89	88.6 Sgr
13 Jan 2024	18h25m58.15s	-23 58' 08.0"	1.4656	2.3856	1.4	16.0	10.7	-54.33	49.46	112.99	88.2 Sgr
14 Jan 2024	18h29m15.10s	-23 56' 32.7"	1.4644	2.3822	1.4	16.3	10.9	-54.23	49.66	113.09	87.9 Sgr
15 Jan 2024	18h32m32.14s	-23 54' 41.9"	1.4631	2.3789	1.4	16.6	11.0	-54.13	49.85	113.18	87.6 Sgr
16 Jan 2024	18h35m49.25s	-23 52' 35.6"	1.4619	2.3755	1.4	16.8	11.2	-54.02	50.04	113.27	87.2 Sgr
17 Jan 2024	18h39m06.40s	-23 50' 13.7"	1.4607	2.3721	1.4	17.1	11.4	-53.90	50.22	113.36	86.9 Sgr
18 Jan 2024	18h42m24.60s	-23 47' 36.4"	1.4595	2.3687	1.4	17.4	11.6	-53.79	50.40	113.46	86.6 Sgr
19 Jan 2024	18h45m40.81s	-23 44' 43.5"	1.4583	2.3652	1.4	17.6	11.8	-53.67	50.57	113.55	86.3 Sgr
20 Jan 2024	18h48m58.03s	-23 41' 35.2"	1.4571	2.3618	1.4	17.9	12.0	-53.54	50.74	113.64	86.0 Sgr
21 Jan 2024	18h52m15.25s	-23 38' 11.3"	1.4559	2.3583	1.4	18.2	12.2	-53.41	50.90	113.73	85.6 Sgr
22 Jan 2024	18h55m32.46s	-23 34' 32.1"	1.4547	2.3548	1.4	18.4	12.3	-53.28	51.06	113.82	85.3 Sgr
23 Jan 2024	18h58m49.63s	-23 30' 37.4"	1.4535	2.3513	1.3	18.7	12.5	-53.14	51.22	113.91	85.0 Sgr
24 Jan 2024	19h02m06.77s	-23 26' 27.3"	1.4523	2.3478	1.3	18.9	12.7	-53.01	51.37	114.00	84.7 Sgr
25 Jan 2024	19h05m23.85s	-23 22' 01.8"	1.4511	2.3443	1.3	19.2	12.9	-52.86	51.52	114.09	84.4 Sgr
26 Jan 2024	19h08m40.87s	-23 17' 21.0"	1.4500	2.3407	1.3	19.5	13.1	-52.71	51.66	114.18	84.0 Sgr
27 Jan 2024	19h11m57.81s	-23 12' 25.0"	1.4488	2.3371	1.3	19.7	13.3	-52.56	51.80	114.26	83.7 Sgr
28 Jan 2024	19h15m14.66s	-23 07' 13.7"	1.4476	2.3336	1.3	20.0	13.4	-52.41	51.94	114.35	83.4 Sgr
29 Jan 2024	19h18m31.41s	-23 01' 47.2"	1.4465	2.3300	1.3	20.2	13.6	-52.25	52.07	114.44	83.1 Sgr
30 Jan 2024	19h21m48.05s	-22 56' 05.6"	1.4453	2.3264	1.3	20.5	13.8	-52.08	52.20	114.53	82.8 Sgr
31 Jan 2024	19h25m04.57s	-22 50' 08.9"	1.4442	2.3228	1.3	20.7	14.0	-51.92	52.33	114.62	82.5 Sgr
1 Feb 2024	19h28m20.95s	-22 43' 57.2"	1.4431	2.3191	1.3	21.0	14.2	-51.75	52.45	114.71	82.2 Sgr
2 Feb 2024	19h31m37.18s	-22 37' 30.5"	1.4419	2.3155	1.3	21.2	14.3	-51.57	52.57	114.79	81.9 Sgr
3 Feb 2024	19h34m53.26s	-22 30' 48.9"	1.4408	2.3118	1.3	21.5	14.5	-51.39	52.69	114.88	81.5 Sgr
4 Feb 2024	19h38m09.16s	-22 23' 52.6"	1.4397	2.3082	1.3	21.7	14.7	-51.21	52.80	114.96	81.2 Sgr
5 Feb 2024	19h41m24.87s	-22 16' 41.5"	1.4386	2.3045	1.3	22.0	14.9	-51.02	52.91	115.04	80.9 Sgr
6 Feb 2024	19h44m40.40s	-22 09' 15.8"	1.4375	2.3008	1.3	22.2	15.1	-50.83	53.02	115.12	80.6 Sgr
7 Feb 2024	19h47m55.71s	-22 01' 35.5"	1.4364	2.2971	1.3	22.5	15.2	-50.64	53.12	115.20	80.3 Sgr
8 Feb 2024	19h51m10.80s	-21 53' 40.8"	1.4353	2.2934	1.3	22.7	15.4	-50.44	53.22	115.28	80.0 Sgr
9 Feb 2024	19h54m25.66s	-21 45' 31.8"	1.4342	2.2897	1.3	23.0	15.6	-50.23	53.33	115.35	79.8 Sgr
10 Feb 2024	19h57m40.27s	-21 37' 08.5"	1.4332	2.2859	1.3	23.2	15.8	-50.03	53.42	115.42	79.5 Sgr
11 Feb 2024	20h00m54.62s	-21 28' 31.2"	1.4321	2.2822	1.3	23.5	15.9	-49.82	53.52	115.48	79.2 Sgr
12 Feb 2024	20h04m08.71s	-21 19' 39.8"	1.4311	2.2784	1.3	23.7	16.1	-49.60	53.61	115.55	78.9 Sgr
13 Feb 2024	20h07m22.51s	-21 10' 34.6"	1.4300	2.2747	1.3	24.0	16.3	-49.39	53.70	115.61	78.6 Cap
14 Feb 2024	20h10m36.02s	-21 01' 15.6"	1.4290	2.2709	1.3	24.2	16.5	-49.16	53.79	115.67	78.3 Cap
15 Feb 2024	20h13m49.23s	-20 51' 43.1"	1.4279	2.2671	1.3	24.5	16.6	-48.94	53.88	115.73	78.0 Cap
16 Feb 2024	20h17m02.13s	-20 41' 57.1"	1.4269	2.2633	1.3	24.7	16.8	-48.71	53.97	115.79	77.8 Cap
17 Feb 2024	20h20m14.72s	-20 31' 57.7"	1.4259	2.2595	1.3	24.9	17.0	-48.47	54.05	115.84	77.5 Cap
18 Feb 2024	20h23m26.99s	-20 21' 45.1"	1.4249	2.2557	1.3	25.2	17.2	-48.23	54.14	115.90	77.2 Cap
19 Feb 2024	20h26m38.93s	-20 11' 19.5"	1.4239	2.2519	1.3	25.4	17.3	-47.99	54.22	115.96	76.9 Cap
20 Feb 2024	20h29m50.54s	-20 00' 40.9"	1.4229	2.2481	1.3	25.7	17.5	-47.75	54.30	116.01	76.7 Cap
21 Feb 2024	20h33m01.82s	-19 49' 49.5"	1.4219	2.2443	1.3	25.9	17.7	-47.50	54.38	116.07	76.4 Cap
22 Feb 2024	20h36m12.75s	-19 38' 45.4"	1.4210	2.2405	1.3	26.1	17.9	-47.25	54.46	116.12	76.2 Cap
23 Feb 2024	20h39m23.34s	-19 27' 28.8"	1.4200	2.2367	1.3	26.4	18.0	-46.99	54.54	116.17	75.9 Cap
24 Feb 2024	20h42m33.59s	-19 15' 59.8"	1.4191	2.2328	1.3	26.6	18.2	-46.73	54.61	116.23	75.6 Cap
25 Feb 2024	20h45m43.48s	-19 04' 18.6"	1.4181	2.2290	1.3	26.8	18.4	-46.46	54.69	116.28	75.4 Cap
26 Feb 2024	20h48m53.02s	-18 52' 25.3"	1.4172	2.2252	1.3	27.1	18.5	-46.20	54.76	116.33	75.1 Cap
27 Feb 2024	20h52m02.20s	-18 40' 20.0"	1.4163	2.2214	1.3	27.3	18.7	-45.92	54.84	116.38	74.9 Cap
28 Feb 2024	20h55m11.02s	-18 28' 03.0"	1.4154	2.2175	1.3	27.5	18.9	-45.65	54.91	116.44	74.7 Cap
29 Feb 2024	20h58m19.48s	-18 15' 34.3"	1.4145	2.2137	1.3	27.8	19.0	-45.37	54.98	116.49	74.4 Cap
1 Mär 2024	21h01m27.57s	-18 02' 54.2"	1.4136	2.2098	1.3	28.0	19.2	-45.09	55.05	116.53	74.2 Cap
2 Mär 2024	21h04m35.29s	-17 50' 02.7"	1.4127	2.2060	1.3	28.2	19.4	-44.80	55.12	116.58	73.9 Cap
3 Mär 2024	21h07m42.65s	-17 37' 00.1"	1.4118	2.2022	1.3	28.4	19.5	-44.51	55.19	116.63	73.7 Cap
4 Mär 2024	21h10m49.63s	-17 23' 46.5"	1.4110	2.1983	1.3	28.7	19.7	-44.22	55.26	116.67	73.5 Cap
5 Mär 2024	21h13m56.24s	-17 10' 22.1"	1.4101	2.1945	1.3	28.9	19.9	-43.92	55.33	116.71	73.3 Cap
6 Mär 2024	21h17m02.47s	-16 56' 47.1"	1.4093	2.1906	1.2	29.1	20.0	-43.62	55.40	116.75	73.0 Cap
7 Mär 2024	21h20m08.32s	-16 43' 01.6"	1.4084	2.1867	1.2	29.4	20.2	-43.32	55.47	116.79	72.8 Cap
8 Mär 2024	21h23m13.79s	-16 29' 05.8"	1.4076	2.1829	1.2	29.6	20.4	-43.01	55.54	116.82	72.6 Cap
9 Mär 2024	21h26m18.87s	-16 15' 00.0"	1.4068	2.1790	1.2	29.8	20.5	-42.70	55.61	116.85	72.4 Cap
10 Mär 2024	21h29m23.56s	-16 00' 44.3"	1.4060	2.1752	1.2	30.0	20.7	-42.39	55.68	116.88	72.2 Cap
11 Mär 2024	21h32m27.86s	-15 46' 18.9"	1.4052	2.1713	1.2	30.2	20.9	-42.08	55.74	116.90	72.0 Cap
12 Mär 2024	21h35m31.77s	-15 31' 44.0"	1.4045	2.1674	1.2	30.5	21.0	-41.76	55.81	116.92	71.8 Cap
13 Mär 2024	21h38m35.29s	-15 16' 59.8"	1.4037	2.1636	1.2	30.7	21.2	-41.43	55.88	116.94	71.6 Cap
14 Mär 2024	21h41m38.41s	-15 02' 06.5"	1.4029	2.1597	1.2	30.9	21.3	-41.11	55.95	116.96	71.4 Cap

EPHEMERIDE 2023 – Mars

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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15 Mär 2024	21h44m41.13s	-14 47' 04.3"	1.4022	2.1558	1.2	31.1	21.5	-40.78	56.02	116.97	71.2 Cap
16 Mär 2024	21h47m43.47s	-14 31' 53.4"	1.4015	2.1520	1.2	31.3	21.7	-40.45	56.09	116.98	71.0 Cap
17 Mär 2024	21h50m45.42s	-14 16' 34.0"	1.4008	2.1481	1.2	31.6	21.8	-40.11	56.16	117.00	70.9 Cap
18 Mär 2024	21h53m46.98s	-14 01' 06.3"	1.4001	2.1442	1.2	31.8	22.0	-39.78	56.22	117.01	70.7 Cap
19 Mär 2024	21h56m48.16s	-13 45' 30.3"	1.3994	2.1404	1.2	32.0	22.1	-39.44	56.29	117.02	70.5 Cap
20 Mär 2024	21h59m48.96s	-13 29' 46.5"	1.3987	2.1365	1.2	32.2	22.3	-39.09	56.36	117.02	70.3 Aqr
21 Mär 2024	22h02m49.39s	-13 13' 54.8"	1.3980	2.1327	1.2	32.4	22.5	-38.75	56.43	117.03	70.2 Aqr
22 Mär 2024	22h05m49.45s	-12 57' 55.5"	1.3974	2.1288	1.2	32.6	22.6	-38.40	56.50	117.04	70.0 Aqr
23 Mär 2024	22h08m49.14s	-12 41' 48.8"	1.3967	2.1250	1.2	32.9	22.8	-38.05	56.57	117.05	69.9 Aqr
24 Mär 2024	22h11m48.88s	-12 25' 34.9"	1.3961	2.1211	1.2	33.1	22.9	-37.69	56.64	117.05	69.7 Aqr
25 Mär 2024	22h14m47.46s	-12 09' 13.9"	1.3955	2.1173	1.2	33.3	23.1	-37.34	56.71	117.06	69.5 Aqr
26 Mär 2024	22h17m46.09s	-11 52' 46.0"	1.3949	2.1134	1.2	33.5	23.2	-36.98	56.78	117.06	69.4 Aqr
27 Mär 2024	22h20m44.37s	-11 36' 11.4"	1.3943	2.1096	1.2	33.7	23.4	-36.62	56.85	117.06	69.3 Aqr
28 Mär 2024	22h23m42.32s	-11 19' 30.3"	1.3937	2.1058	1.2	33.9	23.6	-36.25	56.92	117.07	69.1 Aqr
29 Mär 2024	22h26m39.93s	-11 02' 43.0"	1.3931	2.1019	1.2	34.1	23.7	-35.89	57.00	117.07	69.0 Aqr
30 Mär 2024	22h29m37.22s	-10 45' 49.4"	1.3926	2.0981	1.2	34.3	23.9	-35.52	57.07	117.07	68.8 Aqr
31 Mär 2024	22h32m34.18s	-10 28' 50.0"	1.3920	2.0943	1.2	34.6	24.0	-35.15	57.14	117.07	68.7 Aqr
1 Apr 2024	22h35m30.83s	-10 11' 44.7"	1.3915	2.0904	1.2	34.8	24.2	-34.78	57.21	117.06	68.6 Aqr
2 Apr 2024	22h38m27.16s	-09 54' 34.0"	1.3910	2.0866	1.2	35.0	24.3	-34.40	57.28	117.05	68.5 Aqr
3 Apr 2024	22h41m23.18s	-09 37' 17.8"	1.3905	2.0828	1.2	35.2	24.5	-34.03	57.36	117.05	68.3 Aqr
4 Apr 2024	22h44m18.90s	-09 19' 56.6"	1.3900	2.0790	1.2	35.4	24.6	-33.65	57.43	117.03	68.2 Aqr
5 Apr 2024	22h47m14.31s	-09 02' 30.3"	1.3895	2.0752	1.2	35.6	24.8	-33.27	57.50	117.02	68.1 Aqr
6 Apr 2024	22h50m09.43s	-08 44' 59.4"	1.3890	2.0713	1.2	35.8	24.9	-32.89	57.57	117.00	68.0 Aqr
7 Apr 2024	22h53m04.26s	-08 27' 23.9"	1.3886	2.0675	1.2	36.0	25.1	-32.50	57.65	116.98	67.9 Aqr
8 Apr 2024	22h55m58.79s	-08 09' 44.1"	1.3881	2.0637	1.2	36.2	25.2	-32.12	57.72	116.96	67.8 Aqr
9 Apr 2024	22h58m53.04s	-07 52' 00.1"	1.3877	2.0599	1.2	36.4	25.4	-31.73	57.80	116.93	67.7 Aqr
10 Apr 2024	23h01m47.01s	-07 34' 12.4"	1.3873	2.0561	1.2	36.6	25.5	-31.34	57.87	116.90	67.6 Aqr
11 Apr 2024	23h04m40.70s	-07 16' 20.9"	1.3869	2.0523	1.2	36.8	25.7	-30.95	57.95	116.86	67.5 Aqr
12 Apr 2024	23h07m34.11s	-06 58' 26.0"	1.3865	2.0485	1.2	37.0	25.8	-30.56	58.02	116.82	67.5 Aqr
13 Apr 2024	23h10m27.26s	-06 40' 27.8"	1.3862	2.0446	1.2	37.2	26.0	-30.17	58.10	116.79	67.4 Aqr
14 Apr 2024	23h13m20.15s	-06 22' 26.5"	1.3858	2.0408	1.2	37.4	26.1	-29.77	58.17	116.75	67.3 Aqr
15 Apr 2024	23h16m12.79s	-06 04' 22.3"	1.3855	2.0370	1.2	37.6	26.2	-29.38	58.25	116.70	67.2 Aqr
16 Apr 2024	23h19m05.18s	-05 46' 15.4"	1.3851	2.0332	1.2	37.8	26.4	-28.98	58.33	116.66	67.2 Aqr
17 Apr 2024	23h21m57.33s	-05 28' 06.0"	1.3848	2.0294	1.1	38.0	26.5	-28.58	58.40	116.62	67.1 Aqr
18 Apr 2024	23h24m49.26s	-05 09' 54.3"	1.3845	2.0257	1.1	38.2	26.7	-28.18	58.48	116.57	67.0 Aqr
19 Apr 2024	23h27m40.96s	-04 51' 40.5"	1.3842	2.0219	1.1	38.5	26.8	-27.78	58.56	116.53	67.0 Aqr
20 Apr 2024	23h30m32.45s	-04 33' 24.6"	1.3840	2.0181	1.1	38.7	27.0	-27.38	58.64	116.48	66.9 Aqr
21 Apr 2024	23h33m23.74s	-04 15' 07.0"	1.3837	2.0143	1.1	38.9	27.1	-26.98	58.71	116.43	66.9 Aqr
22 Apr 2024	23h36m14.83s	-03 56' 47.8"	1.3835	2.0105	1.1	39.1	27.2	-26.57	58.79	116.38	66.8 Aqr
23 Apr 2024	23h39m05.73s	-03 38' 27.1"	1.3832	2.0067	1.1	39.3	27.4	-26.17	58.87	116.33	66.8 Aqr
24 Apr 2024	23h41m56.45s	-03 20' 05.2"	1.3830	2.0030	1.1	39.5	27.5	-25.76	58.95	116.28	66.7 Aqr
25 Apr 2024	23h44m46.99s	-03 01' 42.2"	1.3828	1.9992	1.1	39.7	27.7	-25.36	59.03	116.23	66.7 Psc
26 Apr 2024	23h47m37.38s	-02 43' 18.3"	1.3826	1.9954	1.1	39.9	27.8	-24.95	59.11	116.18	66.7 Psc
27 Apr 2024	23h50m27.61s	-02 24' 53.7"	1.3825	1.9917	1.1	40.1	27.9	-24.55	59.18	116.12	66.7 Psc
28 Apr 2024	23h53m17.69s	-02 06' 28.5"	1.3823	1.9879	1.1	40.3	28.1	-24.14	59.26	116.07	66.6 Psc
29 Apr 2024	23h56m07.63s	-01 48' 02.9"	1.3822	1.9841	1.1	40.5	28.2	-23.73	59.34	116.01	66.6 Psc
30 Apr 2024	23h58m57.44s	-01 29' 37.2"	1.3820	1.9804	1.1	40.7	28.4	-23.32	59.42	115.95	66.6 Psc
1 Mai 2024	00h01m47.12s	-01 11' 11.5"	1.3819	1.9766	1.1	40.9	28.5	-22.91	59.50	115.89	66.6 Psc
2 Mai 2024	00h04m36.69s	-00 52' 46.0"	1.3818	1.9729	1.1	41.1	28.6	-22.51	59.58	115.83	66.6 Psc
3 Mai 2024	00h07m26.13s	-00 34' 21.0"	1.3817	1.9691	1.1	41.3	28.8	-22.10	59.66	115.76	66.6 Psc
4 Mai 2024	00h10m15.47s	-00 15' 56.5"	1.3816	1.9653	1.1	41.5	28.9	-21.69	59.74	115.69	66.6 Psc
5 Mai 2024	00h13m04.70s	+00 02' 27.1"	1.3816	1.9616	1.1	41.7	29.0	-21.28	59.82	115.62	66.6 Psc
6 Mai 2024	00h15m53.83s	+00 20' 49.8"	1.3815	1.9578	1.1	41.9	29.2	-20.87	59.90	115.54	66.6 Psc
7 Mai 2024	00h18m42.87s	+00 39' 11.4"	1.3815	1.9540	1.1	42.1	29.3	-20.46	59.98	115.46	66.6 Psc
8 Mai 2024	00h21m31.81s	+00 57' 31.4"	1.3815	1.9503	1.1	42.3	29.4	-20.05	60.06	115.37	66.6 Psc
9 Mai 2024	00h24m20.67s	+01 15' 49.9"	1.3815	1.9465	1.1	42.5	29.6	-19.65	60.14	115.29	66.6 Psc
10 Mai 2024	00h27m09.44s	+01 34' 06.7"	1.3815	1.9427	1.1	42.7	29.7	-19.24	60.22	115.20	66.6 Cet
11 Mai 2024	00h29m58.14s	+01 52' 21.4"	1.3816	1.9389	1.1	42.9	29.8	-18.83	60.30	115.10	66.7 Cet
12 Mai 2024	00h32m46.77s	+02 10' 34.0"	1.3816	1.9352	1.1	43.1	30.0	-18.42	60.38	115.01	66.7 Cet
13 Mai 2024	00h35m35.33s	+02 28' 44.2"	1.3817	1.9314	1.1	43.3	30.1	-18.01	60.46	114.91	66.7 Cet
14 Mai 2024	00h38m23.84s	+02 46' 51.9"	1.3817	1.9276	1.1	43.5	30.2	-17.61	60.54	114.81	66.8 Psc
15 Mai 2024	00h41m12.29s	+03 04' 57.0"	1.3818	1.9238	1.1	43.7	30.3	-17.20	60.62	114.71	66.8 Psc
16 Mai 2024	00h44m00.70s	+03 22' 59.2"	1.3819	1.9200	1.1	43.9	30.5	-16.80	60.70	114.61	66.8 Psc
17 Mai 2024	00h46m49.08s	+03 40' 58.5"	1.3820	1.9162	1.1	44.1	30.6	-16.39	60.78	114.51	66.9 Psc
18 Mai 2024	00h49m37.42s	+03 58' 54.5"	1.3822	1.9125	1.1	44.3	30.7	-15.99	60.86	114.41	66.9 Psc
19 Mai 2024	00h52m25.74s	+04 16' 47.3"	1.3823	1.9087	1.1	44.5	30.8	-15.58	60.94	114.31	67.0 Psc
20 Mai 2024	00h55m14.09s	+04 34' 36.5"	1.3825	1.9049	1.1	44.7	31.0	-15.18	61.02	114.20	67.0 Psc
21 Mai 2024	00h58m02.36s	+04 52' 22.2"	1.3826	1.9011	1.1	44.9	31.1	-14.78	61.10	114.10	67.1 Psc
22 Mai 2024	01h00m50.66s	+05 10' 04.0"	1.3828	1.8973	1.1	45.1	31.2	-14.38	61.18	113.99	67.2 Psc
23 Mai 2024	01h03m38.96s	+05 27' 41.9"	1.3830	1.8935	1.1	45.3	31.3	-13.98	61.26	113.89	67.2 Psc
24 Mai 2024	01h06m27.29s	+05 45' 15.7"	1.3832	1.8897	1.1	45.5	31.5	-13.58	61.34	113.78	67.3 Psc
25 Mai 2024	01h09m15.63s	+06 02' 45.3"	1.3835	1.8859	1.1	45.7	31.6	-13.18	61.43	113.67	67.4 Psc
26 Mai 2024	01h12m04.00s	+06 20' 10.5"	1.3837	1.8821	1.1	45.9	31.7	-12.79	61.51	113.56	67.5 Psc
27 Mai 2024	01h14m52.40s	+06 37' 31.0"	1.3840	1.8783	1.1	46.1	31.8	-12.39	61.59	113.45	67.5 Psc

EPHEMERIDE 2023 – Mars

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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28 Mai 2024	01h17m40.84s	+06 54' 46.9"	1.3843	1.8745	1.1	46.3	32.0	-12.00	61.67	113.34	67.6 Psc
29 Mai 2024	01h20m29.32s	+07 11' 57.9"	1.3845	1.8706	1.1	46.5	32.1	-11.60	61.75	113.23	67.7 Psc
30 Mai 2024	01h23m17.85s	+07 29' 03.8"	1.3848	1.8668	1.1	46.7	32.2	-11.21	61.83	113.11	67.8 Psc
31 Mai 2024	01h26m06.43s	+07 46' 04.6"	1.3852	1.8630	1.1	46.9	32.3	-10.82	61.91	112.99	67.9 Psc
1 Jun 2024	01h28m55.06s	+08 02' 59.9"	1.3855	1.8591	1.1	47.1	32.4	-10.43	61.99	112.87	68.0 Psc
2 Jun 2024	01h31m43.74s	+08 19' 49.6"	1.3858	1.8553	1.1	47.3	32.6	-10.04	62.07	112.74	68.1 Psc
3 Jun 2024	01h34m32.48s	+08 36' 33.7"	1.3862	1.8514	1.0	47.5	32.7	-9.66	62.15	112.61	68.2 Psc
4 Jun 2024	01h37m21.28s	+08 53' 11.8"	1.3866	1.8475	1.0	47.8	32.8	-9.27	62.23	112.48	68.3 Psc
5 Jun 2024	01h40m10.14s	+09 09' 43.8"	1.3869	1.8436	1.0	48.0	32.9	-8.89	62.31	112.34	68.4 Psc
6 Jun 2024	01h42m59.06s	+09 26' 09.6"	1.3873	1.8397	1.0	48.2	33.0	-8.51	62.39	112.20	68.5 Psc
7 Jun 2024	01h45m48.04s	+09 42' 29.0"	1.3877	1.8358	1.0	48.4	33.1	-8.13	62.47	112.06	68.7 Psc
8 Jun 2024	01h48m37.08s	+09 58' 41.8"	1.3882	1.8319	1.0	48.6	33.3	-7.75	62.55	111.92	68.8 Psc
9 Jun 2024	01h51m26.18s	+10 14' 47.9"	1.3886	1.8280	1.0	48.8	33.4	-7.38	62.63	111.77	68.9 Psc
10 Jun 2024	01h54m15.34s	+10 30' 47.1"	1.3891	1.8241	1.0	49.0	33.5	-7.00	62.72	111.62	69.0 Psc
11 Jun 2024	01h57m04.58s	+10 46' 39.3"	1.3895	1.8201	1.0	49.2	33.6	-6.63	62.80	111.47	69.2 Ari
12 Jun 2024	01h59m53.88s	+11 02' 24.3"	1.3900	1.8162	1.0	49.5	33.7	-6.26	62.88	111.31	69.3 Ari
13 Jun 2024	02h02m43.26s	+11 18' 02.1"	1.3905	1.8122	1.0	49.7	33.8	-5.89	62.96	111.16	69.4 Ari
14 Jun 2024	02h05m11.71s	+11 33' 32.5"	1.3910	1.8082	1.0	49.9	33.9	-5.53	63.04	111.00	69.6 Ari
15 Jun 2024	02h08m22.24s	+11 48' 55.3"	1.3915	1.8042	1.0	50.1	34.1	-5.16	63.13	110.85	69.7 Ari
16 Jun 2024	02h11m11.85s	+12 04' 10.4"	1.3921	1.8003	1.0	50.3	34.2	-4.80	63.21	110.69	69.9 Ari
17 Jun 2024	02h14m01.55s	+12 19' 17.8"	1.3926	1.7963	1.0	50.5	34.3	-4.44	63.29	110.53	70.0 Ari
18 Jun 2024	02h16m51.32s	+12 34' 17.3"	1.3932	1.7922	1.0	50.8	34.4	-4.08	63.38	110.37	70.1 Ari
19 Jun 2024	02h19m41.19s	+12 49' 08.8"	1.3937	1.7882	1.0	51.0	34.5	-3.72	63.46	110.21	70.3 Ari
20 Jun 2024	02h22m31.14s	+13 03' 52.1"	1.3943	1.7842	1.0	51.2	34.6	-3.37	63.54	110.05	70.5 Ari
21 Jun 2024	02h25m21.19s	+13 18' 27.2"	1.3949	1.7801	1.0	51.4	34.7	-3.02	63.63	109.89	70.6 Ari
22 Jun 2024	02h28m11.34s	+13 32' 53.9"	1.3955	1.7761	1.0	51.7	34.8	-2.67	63.71	109.73	70.8 Ari
23 Jun 2024	02h31m01.57s	+13 47' 12.1"	1.3961	1.7720	1.0	51.9	34.9	-2.32	63.80	109.57	70.9 Ari
24 Jun 2024	02h33m51.91s	+14 01' 21.7"	1.3968	1.7679	1.0	52.1	35.0	-1.98	63.88	109.41	71.1 Ari
25 Jun 2024	02h36m42.34s	+14 15' 22.7"	1.3974	1.7638	1.0	52.3	35.2	-1.63	63.97	109.24	71.3 Ari
26 Jun 2024	02h39m32.87s	+14 29' 14.8"	1.3981	1.7597	1.0	52.6	35.3	-1.29	64.05	109.08	71.5 Ari
27 Jun 2024	02h42m23.50s	+14 42' 57.9"	1.3987	1.7555	1.0	52.8	35.4	-0.95	64.14	108.91	71.6 Ari
28 Jun 2024	02h45m14.22s	+14 56' 32.0"	1.3994	1.7514	1.0	53.0	35.5	-0.62	64.23	108.74	71.8 Ari
29 Jun 2024	02h48m05.03s	+15 09' 56.9"	1.4001	1.7472	1.0	53.2	35.6	-0.28	64.32	108.56	72.0 Ari
30 Jun 2024	02h50m55.93s	+15 23' 12.5"	1.4008	1.7430	1.0	53.5	35.7	0.05	64.40	108.39	72.2 Ari
1 Jul 2024	02h53m46.91s	+15 36' 18.6"	1.4015	1.7388	1.0	53.7	35.8	0.38	64.49	108.21	72.4 Ari
2 Jul 2024	02h56m37.97s	+15 49' 15.2"	1.4023	1.7346	1.0	53.9	35.9	0.70	64.58	108.02	72.6 Ari
3 Jul 2024	02h59m29.09s	+16 02' 02.1"	1.4030	1.7303	1.0	54.2	36.0	1.03	64.67	107.83	72.8 Ari
4 Jul 2024	03h02m20.29s	+16 14' 39.2"	1.4038	1.7261	1.0	54.4	36.1	1.35	64.76	107.64	72.9 Ari
5 Jul 2024	03h05m11.54s	+16 27' 06.4"	1.4045	1.7218	1.0	54.7	36.2	1.67	64.85	107.45	73.1 Ari
6 Jul 2024	03h08m02.84s	+16 39' 23.6"	1.4053	1.7175	1.0	54.9	36.3	1.98	64.95	107.25	73.3 Ari
7 Jul 2024	03h10m54.20s	+16 51' 30.7"	1.4061	1.7131	1.0	55.1	36.4	2.30	65.04	107.05	73.5 Ari
8 Jul 2024	03h13m45.59s	+17 03' 27.6"	1.4069	1.7088	1.0	55.4	36.5	2.61	65.14	106.84	73.8 Ari
9 Jul 2024	03h16m37.02s	+17 15' 14.2"	1.4077	1.7044	1.0	55.6	36.6	2.92	65.23	106.64	74.0 Ari
10 Jul 2024	03h19m28.49s	+17 26' 50.5"	1.4085	1.7000	1.0	55.9	36.7	3.23	65.33	106.43	74.2 Ari
11 Jul 2024	03h22m19.98s	+17 38' 16.4"	1.4093	1.6956	1.0	56.1	36.8	3.53	65.42	106.22	74.4 Ari
12 Jul 2024	03h25m11.50s	+17 49' 31.7"	1.4102	1.6912	1.0	56.4	36.9	3.83	65.52	106.01	74.6 Tau
13 Jul 2024	03h28m03.03s	+18 00' 36.5"	1.4110	1.6868	1.0	56.6	37.0	4.13	65.62	105.80	74.8 Tau
14 Jul 2024	03h30m54.58s	+18 11' 30.6"	1.4119	1.6823	1.0	56.9	37.1	4.43	65.72	105.58	75.0 Tau
15 Jul 2024	03h33m46.14s	+18 22' 14.1"	1.4128	1.6778	0.9	57.1	37.2	4.73	65.82	105.37	75.2 Tau
16 Jul 2024	03h36m37.70s	+18 32' 46.8"	1.4137	1.6733	0.9	57.4	37.3	5.02	65.93	105.15	75.5 Tau
17 Jul 2024	03h39m29.26s	+18 43' 08.7"	1.4145	1.6688	0.9	57.6	37.4	5.31	66.03	104.93	75.7 Tau
18 Jul 2024	03h42m20.81s	+18 53' 19.7"	1.4154	1.6642	0.9	57.9	37.4	5.60	66.14	104.72	75.9 Tau
19 Jul 2024	03h45m12.36s	+19 03' 19.9"	1.4164	1.6596	0.9	58.1	37.5	5.88	66.24	104.50	76.1 Tau
20 Jul 2024	03h48m03.89s	+19 13' 09.1"	1.4173	1.6550	0.9	58.4	37.6	6.16	66.35	104.28	76.4 Tau
21 Jul 2024	03h50m55.41s	+19 22' 47.4"	1.4182	1.6504	0.9	58.6	37.7	6.44	66.46	104.06	76.6 Tau
22 Jul 2024	03h53m46.90s	+19 32' 14.6"	1.4192	1.6458	0.9	58.9	37.8	6.72	66.57	103.84	76.8 Tau
23 Jul 2024	03h56m38.35s	+19 41' 30.7"	1.4201	1.6411	0.9	59.2	37.9	7.00	66.68	103.62	77.0 Tau
24 Jul 2024	03h59m29.77s	+19 50' 35.7"	1.4211	1.6364	0.9	59.4	38.0	7.27	66.80	103.40	77.3 Tau
25 Jul 2024	04h02m21.15s	+19 59' 29.6"	1.4220	1.6317	0.9	59.7	38.1	7.54	66.91	103.17	77.5 Tau
26 Jul 2024	04h05m12.47s	+20 08' 12.3"	1.4230	1.6270	0.9	60.0	38.2	7.81	67.03	102.94	77.7 Tau
27 Jul 2024	04h08m03.73s	+20 16' 43.7"	1.4240	1.6222	0.9	60.2	38.3	8.07	67.15	102.71	78.0 Tau
28 Jul 2024	04h10m54.91s	+20 25' 03.8"	1.4250	1.6174	0.9	60.5	38.3	8.34	67.27	102.48	78.2 Tau
29 Jul 2024	04h13m46.00s	+20 33' 12.6"	1.4260	1.6126	0.9	60.8	38.4	8.60	67.39	102.24	78.5 Tau
30 Jul 2024	04h16m36.98s	+20 41' 10.1"	1.4270	1.6077	0.9	61.1	38.5	8.86	67.52	101.99	78.7 Tau
31 Jul 2024	04h19m27.86s	+20 48' 56.1"	1.4280	1.6028	0.9	61.3	38.6	9.12	67.64	101.74	79.0 Tau
1 Aug 2024	04h22m18.60s	+20 56' 30.7"	1.4291	1.5979	0.9	61.6	38.7	9.37	67.77	101.49	79.2 Tau
2 Aug 2024	04h25m09.21s	+21 03' 54.0"	1.4301	1.5930	0.9	61.9	38.8	9.62	67.90	101.23	79.4 Tau
3 Aug 2024	04h27m59.66s	+21 11' 05.7"	1.4312	1.5880	0.9	62.2	38.8	9.87	68.03	100.97	79.7 Tau
4 Aug 2024	04h30m49.94s	+21 18' 06.0"	1.4322	1.5830	0.9	62.5	38.9	10.12	68.16	100.70	79.9 Tau
5 Aug 2024	04h33m40.04s	+21 24' 54.9"	1.4333	1.5780	0.9	62.8	39.0	10.37	68.30	100.43	80.2 Tau
6 Aug 2024	04h36m29.94s	+21 31' 32.4"	1.4343	1.5730	0.9	63.1	39.1	10.61	68.44	100.16	80.4 Tau
7 Aug 2024	04h39m19.64s	+21 37' 58.4"	1.4354	1.5679	0.9	63.4	39.2	10.86	68.58	99.89	80.7 Tau
8 Aug 2024	04h42m09.13s	+21 44' 12.9"	1.4365	1.5628	0.9	63.6	39.2	11.10	68.72	99.61	80.9 Tau
9 Aug 2024	04h44m58.38s	+21 50' 16.1"	1.4376	1.5576	0.9	63.9	39.3	11.34	68.87	99.33	81.2 Tau

EPHEMERIDE 2023 – Mars

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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10 Aug 2024	04h47m47.39s	+21 56' 08.0"	1.4387	1.5525	0.9	64.2	39.4	11.57	69.02	99.04	81.4 Tau
11 Aug 2024	04h50m36.15s	+22 01' 48.5"	1.4398	1.5473	0.9	64.5	39.5	11.81	69.17	98.76	81.7 Tau
12 Aug 2024	04h53m24.65s	+22 07' 17.7"	1.4409	1.5420	0.8	64.8	39.5	12.04	69.32	98.47	81.9 Tau
13 Aug 2024	04h56m12.87s	+22 12' 35.6"	1.4420	1.5368	0.8	65.1	39.6	12.27	69.47	98.18	82.2 Tau
14 Aug 2024	04h59m00.80s	+22 17' 42.4"	1.4432	1.5315	0.8	65.5	39.7	12.50	69.63	97.89	82.4 Tau
15 Aug 2024	05h01m48.44s	+22 22' 37.9"	1.4443	1.5262	0.8	65.8	39.8	12.73	69.79	97.59	82.7 Tau
16 Aug 2024	05h04m35.77s	+22 27' 22.4"	1.4455	1.5208	0.8	66.1	39.8	12.96	69.96	97.30	82.9 Tau
17 Aug 2024	05h07m22.79s	+22 31' 55.7"	1.4466	1.5155	0.8	66.4	39.9	13.18	70.12	97.00	83.2 Tau
18 Aug 2024	05h10m09.48s	+22 36' 18.1"	1.4478	1.5101	0.8	66.7	40.0	13.41	70.29	96.70	83.4 Tau
19 Aug 2024	05h12m55.84s	+22 40' 29.5"	1.4489	1.5046	0.8	67.0	40.0	13.63	70.46	96.40	83.7 Tau
20 Aug 2024	05h15m41.84s	+22 44' 29.9"	1.4501	1.4992	0.8	67.3	40.1	13.85	70.64	96.10	83.9 Tau
21 Aug 2024	05h18m27.49s	+22 48' 19.6"	1.4513	1.4937	0.8	67.7	40.2	14.07	70.81	95.80	84.2 Tau
22 Aug 2024	05h21m12.77s	+22 51' 58.4"	1.4524	1.4881	0.8	68.0	40.2	14.29	70.99	95.49	84.4 Tau
23 Aug 2024	05h23m57.66s	+22 55' 26.5"	1.4536	1.4826	0.8	68.3	40.3	14.51	71.17	95.18	84.7 Tau
24 Aug 2024	05h26m42.16s	+22 58' 43.9"	1.4548	1.4770	0.8	68.7	40.3	14.73	71.36	94.86	84.9 Tau
25 Aug 2024	05h29m26.23s	+23 01' 50.8"	1.4560	1.4714	0.8	69.0	40.4	14.94	71.55	94.54	85.2 Tau
26 Aug 2024	05h32m09.88s	+23 04' 47.1"	1.4572	1.4657	0.8	69.3	40.5	15.15	71.74	94.21	85.4 Tau
27 Aug 2024	05h34m50.97s	+23 07' 32.9"	1.4584	1.4600	0.8	69.7	40.5	15.37	71.94	93.87	85.7 Tau
28 Aug 2024	05h37m35.79s	+23 10' 08.4"	1.4596	1.4543	0.8	70.0	40.6	15.58	72.13	93.53	85.9 Tau
29 Aug 2024	05h40m18.02s	+23 12' 33.6"	1.4608	1.4485	0.8	70.3	40.6	15.79	72.34	93.18	86.2 Tau
30 Aug 2024	05h42m59.75s	+23 14' 48.6"	1.4620	1.4428	0.8	70.7	40.7	16.00	72.54	92.83	86.4 Tau
31 Aug 2024	05h45m40.95s	+23 16' 53.6"	1.4633	1.4369	0.7	71.0	40.7	16.21	72.75	92.47	86.7 Tau
1 Sep 2024	05h48m21.61s	+23 18' 48.5"	1.4645	1.4311	0.7	71.4	40.8	16.42	72.96	92.10	86.9 Tau
2 Sep 2024	05h51m01.72s	+23 20' 33.6"	1.4657	1.4252	0.7	71.7	40.8	16.63	73.18	91.73	87.1 Tau
3 Sep 2024	05h53m41.25s	+23 22' 08.9"	1.4670	1.4192	0.7	72.1	40.9	16.84	73.40	91.35	87.4 Tau
4 Sep 2024	05h56m20.19s	+23 23' 34.6"	1.4682	1.4133	0.7	72.5	40.9	17.05	73.62	90.97	87.6 Tau
5 Sep 2024	05h58m58.52s	+23 24' 50.8"	1.4695	1.4073	0.7	72.8	41.0	17.26	73.84	90.58	87.9 Tau
6 Sep 2024	06h01m36.22s	+23 25' 57.6"	1.4707	1.4013	0.7	73.2	41.0	17.46	74.07	90.19	88.1 Gem
7 Sep 2024	06h04m13.29s	+23 26' 55.2"	1.4720	1.3952	0.7	73.6	41.0	17.67	74.31	89.79	88.3 Gem
8 Sep 2024	06h06m49.71s	+23 27' 43.6"	1.4732	1.3891	0.7	73.9	41.1	17.88	74.54	89.38	88.6 Gem
9 Sep 2024	06h09m25.46s	+23 28' 23.1"	1.4745	1.3830	0.7	74.3	41.1	18.08	74.78	88.97	88.8 Gem
10 Sep 2024	06h12m00.52s	+23 28' 53.8"	1.4757	1.3768	0.7	74.7	41.2	18.29	75.03	88.56	89.0 Gem
11 Sep 2024	06h14m34.89s	+23 29' 15.8"	1.4770	1.3707	0.7	75.1	41.2	18.50	75.28	88.14	89.3 Gem
12 Sep 2024	06h17m08.55s	+23 29' 29.3"	1.4783	1.3644	0.7	75.5	41.2	18.71	75.53	87.72	89.5 Gem
13 Sep 2024	06h19m41.50s	+23 29' 34.4"	1.4795	1.3582	0.7	75.9	41.3	18.92	75.79	87.29	89.7 Gem
14 Sep 2024	06h22m13.70s	+23 29' 31.2"	1.4808	1.3519	0.6	76.2	41.3	19.12	76.05	86.86	89.9 Gem
15 Sep 2024	06h24m45.17s	+23 29' 20.0"	1.4821	1.3456	0.6	76.6	41.3	19.33	76.31	86.42	90.1 Gem
16 Sep 2024	06h27m15.87s	+23 29' 00.8"	1.4834	1.3393	0.6	77.0	41.3	19.54	76.58	85.98	90.4 Gem
17 Sep 2024	06h29m45.81s	+23 28' 33.9"	1.4847	1.3329	0.6	77.4	41.4	19.75	76.85	85.54	90.6 Gem
18 Sep 2024	06h32m14.96s	+23 27' 59.4"	1.4859	1.3265	0.6	77.8	41.4	19.96	77.13	85.09	90.8 Gem
19 Sep 2024	06h34m43.31s	+23 27' 17.4"	1.4872	1.3201	0.6	78.3	41.4	20.17	77.41	84.63	91.0 Gem
20 Sep 2024	06h37m10.86s	+23 26' 28.1"	1.4885	1.3136	0.6	78.7	41.4	20.39	77.69	84.17	91.2 Gem
21 Sep 2024	06h39m37.57s	+23 25' 31.8"	1.4898	1.3071	0.6	79.1	41.4	20.60	77.98	83.69	91.4 Gem
22 Sep 2024	06h42m03.43s	+23 24' 28.4"	1.4911	1.3006	0.6	79.5	41.4	20.81	78.27	83.21	91.6 Gem
23 Sep 2024	06h44m28.43s	+23 23' 18.3"	1.4924	1.2940	0.6	79.9	41.5	21.03	78.57	82.72	91.8 Gem
24 Sep 2024	06h46m52.53s	+23 22' 01.6"	1.4937	1.2874	0.6	80.4	41.5	21.24	78.87	82.22	92.0 Gem
25 Sep 2024	06h49m15.73s	+23 20' 38.5"	1.4950	1.2808	0.6	80.8	41.5	21.46	79.18	81.71	92.2 Gem
26 Sep 2024	06h51m37.99s	+23 19' 09.1"	1.4963	1.2742	0.5	81.2	41.5	21.68	79.49	81.18	92.4 Gem
27 Sep 2024	06h53m59.30s	+23 17' 33.8"	1.4976	1.2675	0.5	81.7	41.5	21.90	79.80	80.65	92.6 Gem
28 Sep 2024	06h56m19.63s	+23 15' 52.7"	1.4989	1.2608	0.5	82.1	41.5	22.12	80.12	80.10	92.8 Gem
29 Sep 2024	06h58m38.97s	+23 14' 06.1"	1.5002	1.2540	0.5	82.6	41.5	22.34	80.45	79.54	93.0 Gem
30 Sep 2024	07h00m57.30s	+23 12' 14.0"	1.5015	1.2472	0.5	83.0	41.5	22.57	80.77	78.98	93.2 Gem
1 Okt 2024	07h03m14.59s	+23 10' 16.9"	1.5028	1.2404	0.5	83.5	41.4	22.79	81.11	78.40	93.3 Gem
2 Okt 2024	07h05m30.82s	+23 08' 14.8"	1.5041	1.2336	0.5	83.9	41.4	23.02	81.45	77.81	93.5 Gem
3 Okt 2024	07h07m45.98s	+23 06' 08.0"	1.5054	1.2267	0.5	84.4	41.4	23.25	81.79	77.21	93.7 Gem
4 Okt 2024	07h10m00.04s	+23 03' 56.7"	1.5067	1.2199	0.5	84.9	41.4	23.49	82.14	76.60	93.8 Gem
5 Okt 2024	07h12m12.99s	+23 01' 41.2"	1.5080	1.2129	0.5	85.3	41.4	23.72	82.49	75.97	94.0 Gem
6 Okt 2024	07h14m24.80s	+22 59' 21.7"	1.5093	1.2060	0.4	85.8	41.4	23.96	82.85	75.34	94.2 Gem
7 Okt 2024	07h16m35.46s	+22 56' 58.4"	1.5106	1.1990	0.4	86.3	41.3	24.20	83.21	74.70	94.3 Gem
8 Okt 2024	07h18m44.95s	+22 54' 31.6"	1.5119	1.1920	0.4	86.8	41.3	24.44	83.58	74.04	94.5 Gem
9 Okt 2024	07h20m53.26s	+22 52' 01.5"	1.5132	1.1850	0.4	87.3	41.3	24.68	83.95	73.38	94.6 Gem
10 Okt 2024	07h23m00.35s	+22 49' 28.4"	1.5146	1.1780	0.4	87.8	41.2	24.93	84.33	72.70	94.7 Gem
11 Okt 2024	07h25m06.23s	+22 46' 52.4"	1.5159	1.1710	0.4	88.3	41.2	25.18	84.71	72.01	94.9 Gem
12 Okt 2024	07h27m10.86s	+22 44' 13.8"	1.5172	1.1639	0.4	88.8	41.1	25.43	85.10	71.32	95.0 Gem
13 Okt 2024	07h29m14.24s	+22 41' 32.9"	1.5185	1.1568	0.4	89.3	41.1	25.69	85.49	70.61	95.1 Gem
14 Okt 2024	07h31m16.34s	+22 38' 49.9"	1.5198	1.1497	0.3	89.8	41.0	25.95	85.89	69.89	95.2 Gem
15 Okt 2024	07h33m17.15s	+22 36' 05.0"	1.5211	1.1425	0.3	90.3	41.0	26.21	86.30	69.16	95.4 Gem
16 Okt 2024	07h35m16.66s	+22 33' 18.5"	1.5224	1.1354	0.3	90.9	40.9	26.47	86.71	68.42	95.5 Gem
17 Okt 2024	07h37m14.83s	+22 30' 30.6"	1.5237	1.1282	0.3	91.4	40.8	26.74	87.13	67.66	95.6 Gem
18 Okt 2024	07h39m11.65s	+22 27' 41.6"	1.5250	1.1210	0.3	92.0	40.8	27.01	87.55	66.89	95.7 Gem
19 Okt 2024	07h41m07.09s	+22 24' 51.8"	1.5263	1.1138	0.3	92.5	40.7	27.29	87.97	66.11	95.8 Gem
20 Okt 2024	07h43m01.14s	+22 22' 01.3"	1.5276	1.1066	0.3	93.1	40.6	27.57	88.41	65.30	95.9 Gem
21 Okt 2024	07h44m53.75s	+22 19' 10.5"	1.5289	1.0994	0.3	93.6	40.5	27.85	88.85	64.48	95.9 Gem
22 Okt 2024	07h46m44.90s	+22 16' 19.6"	1.5302	1.0921	0.2	94.2	40.4	28.14	89.29	63.64	96.0 Gem

EPHEMERIDE 2023 – Mars

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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23 Okt 2024	07h48m34.57s	+22 13' 29.0"	1.5315	1.0848	0.2	94.7	40.3	28.43	89.74	62.78	96.1 Gem
24 Okt 2024	07h50m22.71s	+22 10' 39.0"	1.5328	1.0775	0.2	95.3	40.3	28.72	90.20	61.90	96.1 Gem
25 Okt 2024	07h52m09.31s	+22 07' 49.8"	1.5341	1.0702	0.2	95.9	40.2	29.02	90.67	60.99	96.2 Gem
26 Okt 2024	07h53m54.31s	+22 05' 01.7"	1.5353	1.0629	0.2	96.5	40.0	29.32	91.14	60.07	96.2 Gem
27 Okt 2024	07h55m37.70s	+22 02' 15.1"	1.5366	1.0556	0.2	97.1	39.9	29.63	91.61	59.13	96.3 Gem
28 Okt 2024	07h57m19.45s	+21 59' 30.3"	1.5379	1.0483	0.2	97.7	39.8	29.94	92.10	58.16	96.3 Gem
29 Okt 2024	07h58m59.51s	+21 56' 47.5"	1.5392	1.0409	0.1	98.3	39.7	30.26	92.59	57.18	96.3 Gem
30 Okt 2024	08h00m37.86s	+21 54' 07.2"	1.5405	1.0336	0.1	98.9	39.6	30.58	93.09	56.17	96.3 Cnc
31 Okt 2024	08h02m14.46s	+21 51' 29.6"	1.5417	1.0263	0.1	99.5	39.4	30.90	93.60	55.14	96.3 Cnc
1 Nov 2024	08h03m49.29s	+21 48' 55.0"	1.5430	1.0189	0.1	100.2	39.3	31.23	94.11	54.09	96.3 Cnc
2 Nov 2024	08h05m22.30s	+21 46' 23.7"	1.5443	1.0116	0.1	100.8	39.1	31.57	94.63	53.02	96.3 Cnc
3 Nov 2024	08h06m53.48s	+21 43' 56.1"	1.5456	1.0042	0.1	101.5	39.0	31.91	95.16	51.92	96.2 Cnc
4 Nov 2024	08h08m22.77s	+21 41' 32.4"	1.5468	0.9969	0.0	102.1	38.8	32.26	95.70	50.81	96.2 Cnc
5 Nov 2024	08h09m50.15s	+21 39' 13.1"	1.5481	0.9895	0.0	102.8	38.7	32.61	96.24	49.67	96.1 Cnc
6 Nov 2024	08h11m15.60s	+21 36' 58.4"	1.5494	0.9822	0.0	103.5	38.5	32.96	96.80	48.51	96.0 Cnc
7 Nov 2024	08h12m39.06s	+21 34' 48.5"	1.5506	0.9748	-0.0	104.1	38.3	33.33	97.36	47.33	95.9 Cnc
8 Nov 2024	08h14m00.53s	+21 32' 43.9"	1.5519	0.9675	-0.0	104.8	38.1	33.70	97.93	46.13	95.8 Cnc
9 Nov 2024	08h15m19.95s	+21 30' 44.8"	1.5531	0.9602	-0.0	105.5	37.9	34.07	98.51	44.91	95.6 Cnc
10 Nov 2024	08h16m37.30s	+21 28' 51.5"	1.5544	0.9529	-0.1	106.2	37.7	34.45	99.10	43.66	95.5 Cnc
11 Nov 2024	08h17m52.54s	+21 27' 04.4"	1.5556	0.9456	-0.1	106.9	37.5	34.84	99.70	42.40	95.3 Cnc
12 Nov 2024	08h19m05.64s	+21 25' 23.6"	1.5569	0.9383	-0.1	107.7	37.3	35.23	100.32	41.11	95.1 Cnc
13 Nov 2024	08h20m16.57s	+21 23' 49.6"	1.5581	0.9311	-0.1	108.4	37.1	35.63	100.94	39.80	94.8 Cnc
14 Nov 2024	08h21m25.29s	+21 22' 22.5"	1.5593	0.9239	-0.1	109.1	36.8	36.03	101.57	38.46	94.5 Cnc
15 Nov 2024	08h22m31.75s	+21 21' 02.8"	1.5606	0.9167	-0.2	109.9	36.6	36.44	102.21	37.10	94.2 Cnc
16 Nov 2024	08h23m35.91s	+21 19' 50.7"	1.5618	0.9095	-0.2	110.6	36.3	36.86	102.86	35.71	93.9 Cnc
17 Nov 2024	08h24m37.74s	+21 18' 46.5"	1.5630	0.9023	-0.2	111.4	36.1	37.28	103.53	34.30	93.5 Cnc
18 Nov 2024	08h25m37.18s	+21 17' 50.5"	1.5642	0.8952	-0.2	112.2	35.8	37.71	104.21	32.86	93.0 Cnc
19 Nov 2024	08h26m34.18s	+21 17' 03.2"	1.5654	0.8881	-0.2	113.0	35.5	38.15	104.90	31.39	92.5 Cnc
20 Nov 2024	08h27m28.69s	+21 16' 24.7"	1.5666	0.8810	-0.3	113.8	35.3	38.59	105.60	29.89	91.9 Cnc
21 Nov 2024	08h28m20.66s	+21 15' 55.5"	1.5678	0.8739	-0.3	114.6	35.0	39.04	106.32	28.36	91.2 Cnc
22 Nov 2024	08h29m10.04s	+21 15' 35.9"	1.5690	0.8669	-0.3	115.4	34.7	39.49	107.05	26.80	90.4 Cnc
23 Nov 2024	08h29m56.77s	+21 15' 26.0"	1.5702	0.8600	-0.3	116.2	34.3	39.96	107.80	25.22	89.5 Cnc
24 Nov 2024	08h30m40.80s	+21 15' 26.4"	1.5714	0.8531	-0.3	117.1	34.0	40.43	108.56	23.61	88.4 Cnc
25 Nov 2024	08h31m22.08s	+21 15' 37.2"	1.5726	0.8462	-0.4	117.9	33.7	40.90	109.34	21.99	87.2 Cnc
26 Nov 2024	08h32m00.56s	+21 15' 58.8"	1.5738	0.8393	-0.4	118.8	33.3	41.39	110.13	20.34	85.7 Cnc
27 Nov 2024	08h32m36.18s	+21 16' 31.4"	1.5750	0.8326	-0.4	119.7	33.0	41.88	110.95	18.69	83.9 Cnc
28 Nov 2024	08h33m08.90s	+21 17' 15.3"	1.5762	0.8258	-0.4	120.6	32.6	42.37	111.78	17.02	81.6 Cnc
29 Nov 2024	08h33m38.66s	+21 18' 10.7"	1.5773	0.8192	-0.4	121.5	32.2	42.88	112.63	15.36	78.9 Cnc
30 Nov 2024	08h34m05.43s	+21 19' 17.8"	1.5785	0.8126	-0.5	122.4	31.8	43.39	113.50	13.72	75.5 Cnc
1 Dez 2024	08h34m29.14s	+21 20' 36.9"	1.5796	0.8060	-0.5	123.3	31.4	43.90	114.39	12.12	71.0 Cnc
2 Dez 2024	08h34m49.75s	+21 22' 08.2"	1.5808	0.7995	-0.5	124.3	31.0	44.43	115.30	10.60	65.2 Cnc
3 Dez 2024	08h35m07.22s	+21 23' 51.7"	1.5819	0.7931	-0.5	125.2	30.6	44.96	116.24	9.20	57.4 Cnc
4 Dez 2024	08h35m21.51s	+21 25' 47.6"	1.5831	0.7868	-0.6	126.2	30.2	45.49	117.20	8.01	46.9 Cnc
5 Dez 2024	08h35m32.58s	+21 27' 56.1"	1.5842	0.7806	-0.6	127.2	29.7	46.04	118.19	7.17	33.3 Cnc
6 Dez 2024	08h35m40.40s	+21 30' 17.1"	1.5854	0.7744	-0.6	128.1	29.3	46.58	119.20	6.81	17.1 Cnc
7 Dez 2024	08h35m44.92s	+21 32' 50.9"	1.5865	0.7683	-0.6	129.1	28.8	47.14	120.24	7.03	0.4 Cnc
8 Dez 2024	08h35m46.11s	+21 35' 37.2"	1.5876	0.7624	-0.7	130.2	28.3	47.69	121.31	7.79	345.7 Cnc
9 Dez 2024	08h35m43.95s	+21 38' 36.3"	1.5887	0.7565	-0.7	131.2	27.8	48.25	122.41	8.97	334.2 Cnc
10 Dez 2024	08h35m38.40s	+21 41' 47.9"	1.5898	0.7507	-0.7	132.2	27.3	48.82	123.54	10.42	325.5 Cnc
11 Dez 2024	08h35m29.45s	+21 45' 12.1"	1.5909	0.7450	-0.7	133.3	26.8	49.39	124.71	12.07	319.0 Cnc
12 Dez 2024	08h35m17.06s	+21 48' 48.8"	1.5920	0.7394	-0.7	134.4	26.2	49.96	125.91	13.83	314.0 Cnc
13 Dez 2024	08h35m01.22s	+21 52' 37.8"	1.5931	0.7340	-0.8	135.5	25.7	50.54	127.15	15.68	310.2 Cnc
14 Dez 2024	08h34m41.89s	+21 56' 39.0"	1.5942	0.7286	-0.8	136.6	25.1	51.11	128.43	17.59	307.1 Cnc
15 Dez 2024	08h34m19.06s	+22 00' 52.3"	1.5953	0.7234	-0.8	137.7	24.5	51.69	129.75	19.54	304.6 Cnc
16 Dez 2024	08h33m52.71s	+22 05' 17.3"	1.5963	0.7183	-0.8	138.8	24.0	52.27	131.11	21.53	302.5 Cnc
17 Dez 2024	08h33m22.82s	+22 09' 54.0"	1.5974	0.7133	-0.9	139.9	23.4	52.85	132.51	23.53	300.8 Cnc
18 Dez 2024	08h32m49.39s	+22 14' 41.9"	1.5985	0.7084	-0.9	141.1	22.7	53.42	133.97	25.55	299.3 Cnc
19 Dez 2024	08h32m12.41s	+22 19' 40.9"	1.5995	0.7037	-0.9	142.3	22.1	53.99	135.47	27.58	298.0 Cnc
20 Dez 2024	08h31m31.87s	+22 24' 50.5"	1.6006	0.6991	-0.9	143.4	21.5	54.56	137.03	29.61	296.8 Cnc
21 Dez 2024	08h30m47.80s	+22 30' 10.4"	1.6016	0.6947	-1.0	144.6	20.8	55.13	138.64	31.62	295.8 Cnc
22 Dez 2024	08h30m00.19s	+22 35' 40.1"	1.6026	0.6904	-1.0	145.8	20.2	55.68	140.30	33.63	294.9 Cnc
23 Dez 2024	08h29m09.08s	+22 41' 19.0"	1.6037	0.6863	-1.0	147.1	19.5	56.23	142.03	35.61	294.0 Cnc
24 Dez 2024	08h28m14.49s	+22 47' 06.7"	1.6047	0.6823	-1.0	148.3	18.8	56.77	143.81	37.57	293.3 Cnc
25 Dez 2024	08h27m16.48s	+22 53' 02.6"	1.6057	0.6785	-1.0	149.5	18.1	57.30	145.66	39.49	292.6 Cnc
26 Dez 2024	08h26m15.09s	+22 59' 05.9"	1.6067	0.6748	-1.1	150.8	17.4	57.82	147.57	41.38	291.9 Cnc
27 Dez 2024	08h25m10.37s	+23 05' 16.0"	1.6077	0.6713	-1.1	152.1	16.6	58.32	149.55	43.22	291.3 Cnc
28 Dez 2024	08h24m02.41s	+23 11' 32.2"	1.6087	0.6680	-1.1	153.4	15.9	58.80	151.60	45.00	290.7 Cnc
29 Dez 2024	08h22m51.29s	+23 17' 53.7"	1.6097	0.6649	-1.1	154.6	15.2	59.26	153.71	46.73	290.1 Cnc
30 Dez 2024	08h22m37.10s	+23 24' 19.6"	1.6107	0.6620	-1.2	155.9	14.4	59.71	155.90	48.39	289.6 Cnc
31 Dez 2024	08h20m19.94s	+23 30' 49.1"	1.6116	0.6592	-1.2	157.2	13.6	60.13	158.15	49.98	289.1 Cnc
1 Jan 2025	08h18m59.93s	+23 37' 21.4"	1.6126	0.6567	-1.2	158.6	12.9	60.52	160.47	51.49	288.6 Cnc