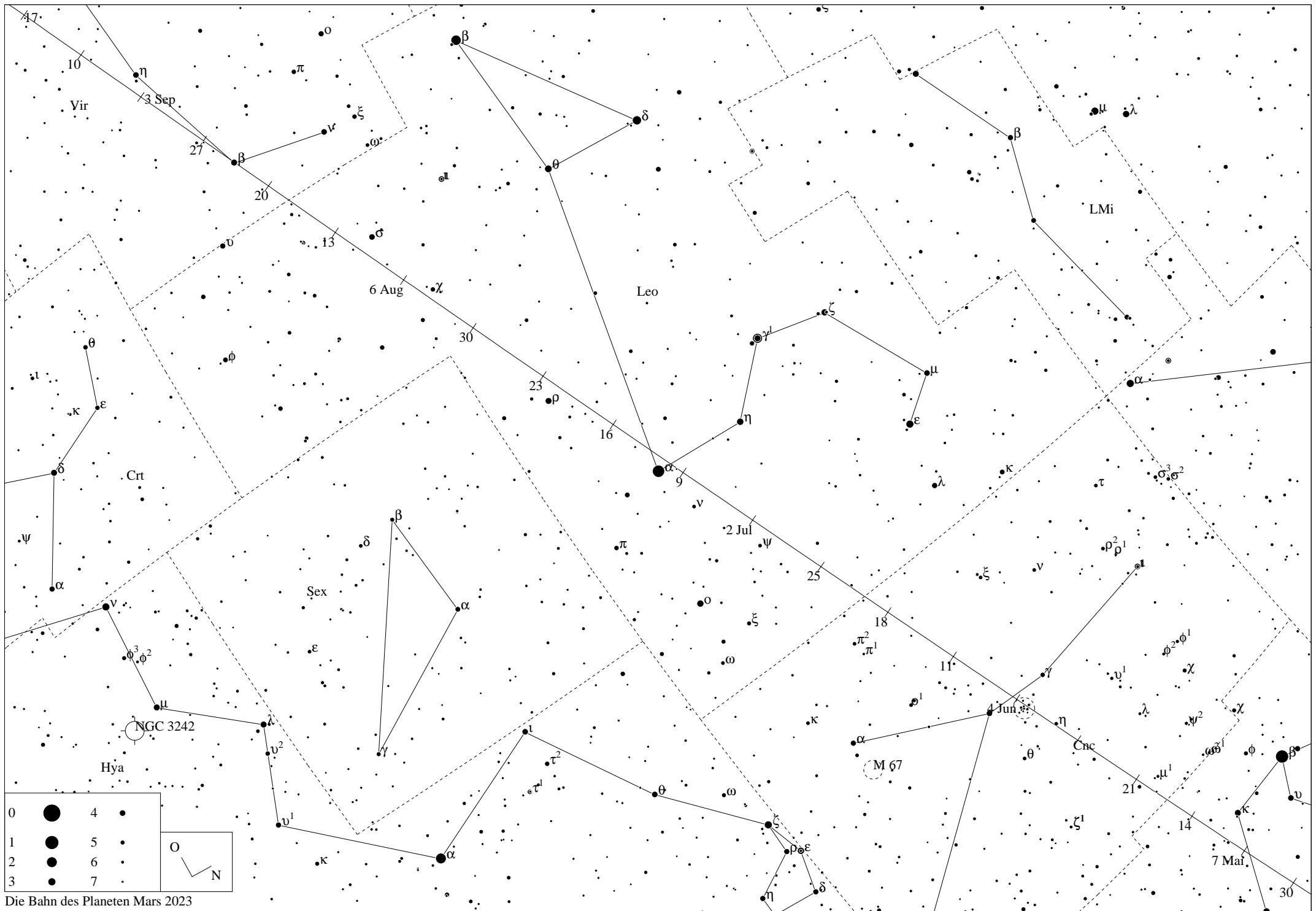
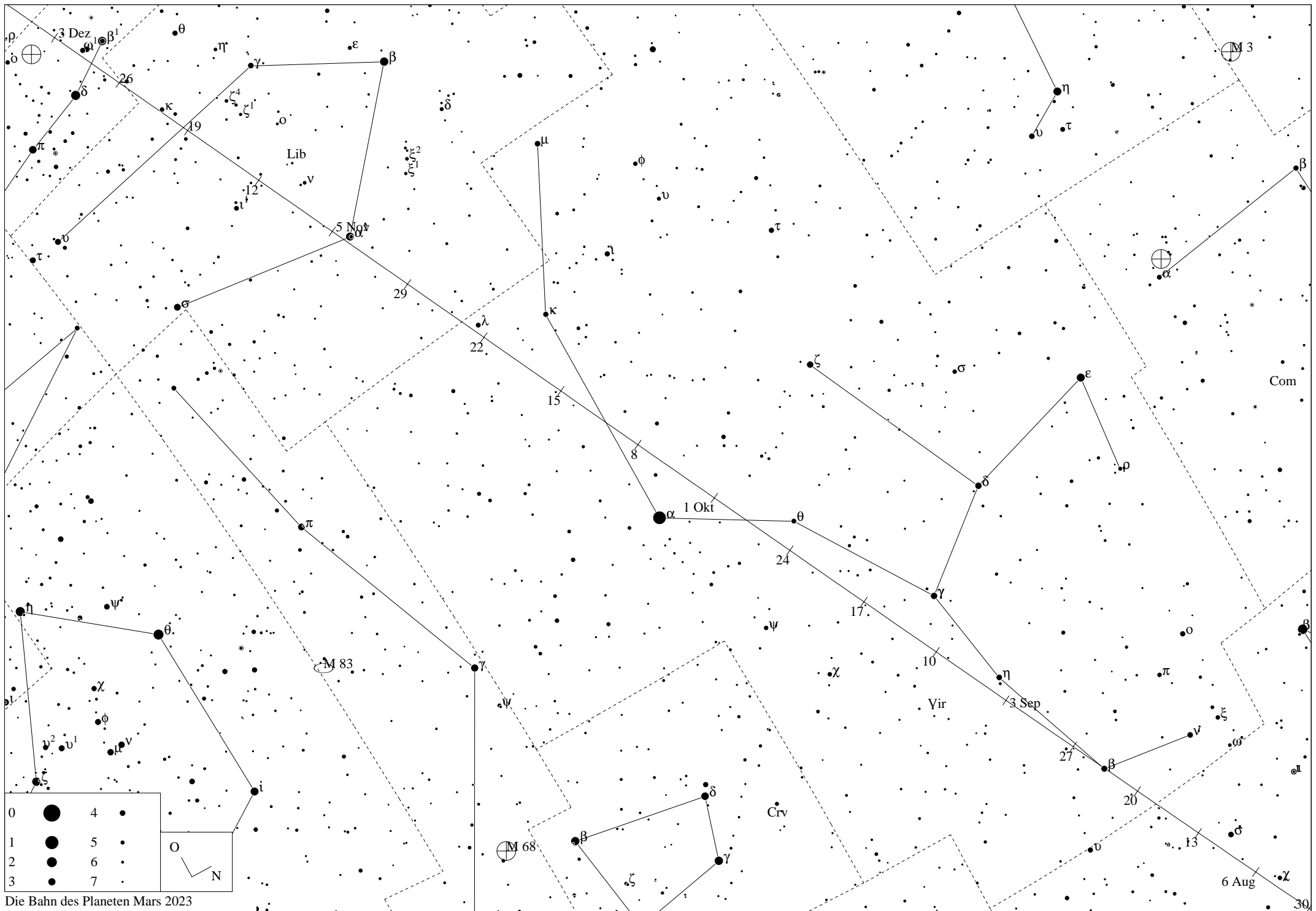


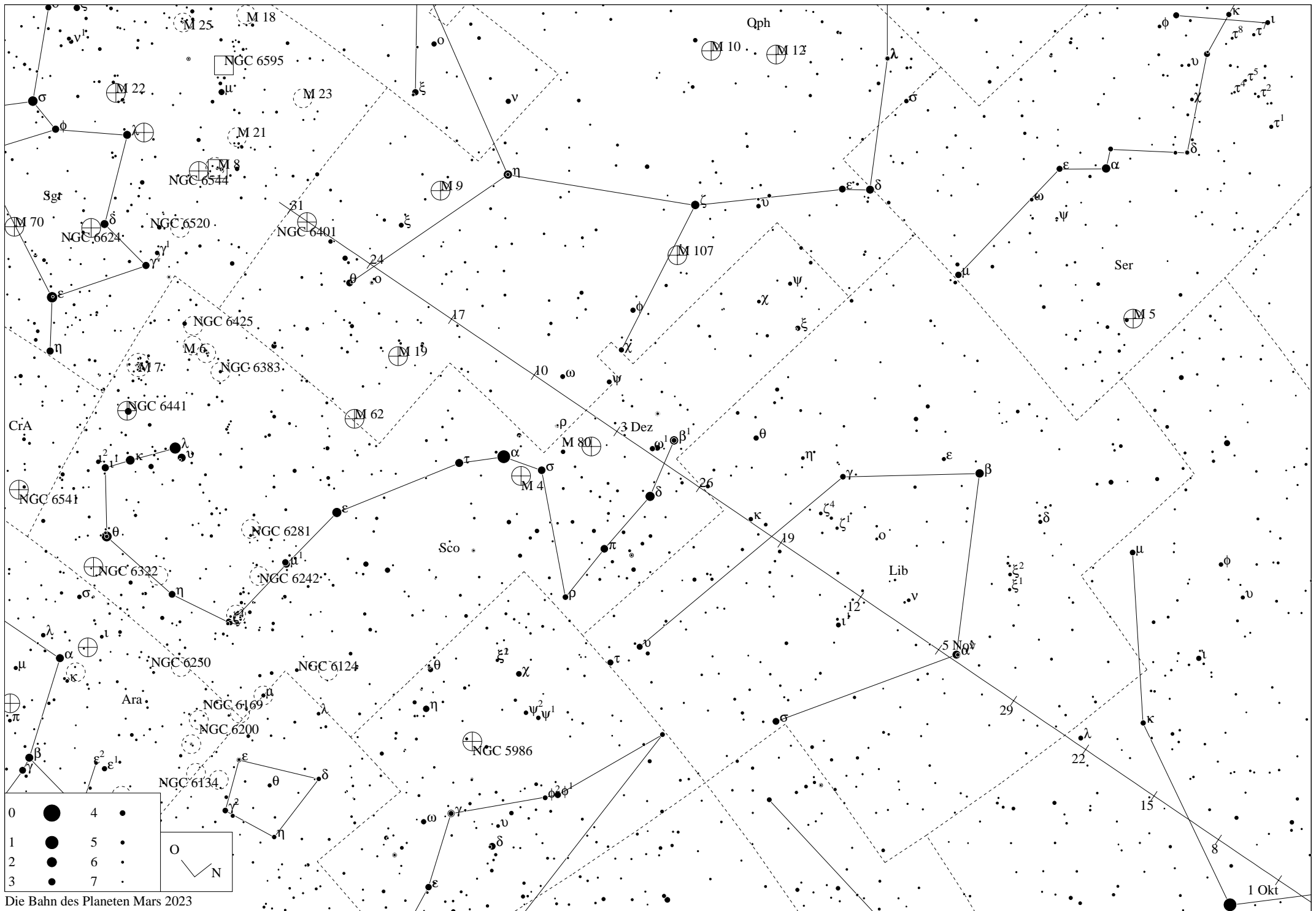
Die Bahn des Planeten Mars 2023



Die Bahn des Planeten Mars 2023



Die Bahn des Planeten Mars 2023



Die Bahn des Planeten Mars 2023











# EPHEMERIDE 2023 – Mars

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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24 Okt 2023	14h21m38.94s	-13 57' 29.6"	1.5689	2.5490	1.6	7.7	4.9	-51.24	16.07	103.31	109.7	Vir
25 Okt 2023	14h24m18.71s	-14 11' 19.8"	1.5677	2.5487	1.6	7.4	4.7	-51.41	16.62	103.43	109.5	Lib
26 Okt 2023	14h26m59.00s	-14 25' 04.1"	1.5664	2.5483	1.6	7.1	4.5	-51.58	17.18	103.55	109.3	Lib
27 Okt 2023	14h29m39.81s	-14 38' 42.6"	1.5652	2.5479	1.6	6.8	4.3	-51.74	17.73	103.67	109.2	Lib
28 Okt 2023	14h32m21.14s	-14 52' 15.0"	1.5640	2.5474	1.5	6.5	4.1	-51.90	18.28	103.79	109.0	Lib
29 Okt 2023	14h35m03.00s	-15 05' 41.3"	1.5628	2.5469	1.5	6.2	3.9	-52.06	18.83	103.92	108.8	Lib
30 Okt 2023	14h37m45.40s	-15 19' 01.3"	1.5616	2.5463	1.5	5.9	3.7	-52.22	19.38	104.04	108.6	Lib
31 Okt 2023	14h40m28.34s	-15 32' 14.9"	1.5604	2.5457	1.5	5.6	3.5	-52.37	19.93	104.17	108.5	Lib
1 Nov 2023	14h43m11.83s	-15 45' 21.9"	1.5591	2.5450	1.5	5.3	3.3	-52.51	20.47	104.29	108.3	Lib
2 Nov 2023	14h45m55.87s	-15 58' 22.2"	1.5579	2.5443	1.5	5.0	3.2	-52.66	21.02	104.42	108.1	Lib
3 Nov 2023	14h48m40.48s	-16 11' 15.6"	1.5567	2.5436	1.5	4.6	3.0	-52.80	21.56	104.55	107.9	Lib
4 Nov 2023	14h51m25.64s	-16 24' 02.1"	1.5554	2.5428	1.5	4.3	2.8	-52.94	22.10	104.68	107.7	Lib
5 Nov 2023	14h54m11.37s	-16 36' 41.4"	1.5542	2.5419	1.5	4.0	2.6	-53.07	22.64	104.81	107.5	Lib
6 Nov 2023	14h56m57.68s	-16 49' 13.4"	1.5529	2.5410	1.5	3.7	2.4	-53.20	23.18	104.94	107.3	Lib
7 Nov 2023	14h59m44.55s	-17 01' 37.9"	1.5517	2.5400	1.5	3.4	2.2	-53.33	23.72	105.07	107.1	Lib
8 Nov 2023	15h02m32.01s	-17 13' 54.8"	1.5504	2.5391	1.5	3.1	2.0	-53.45	24.25	105.20	106.9	Lib
9 Nov 2023	15h05m20.04s	-17 26' 03.9"	1.5492	2.5380	1.5	2.8	1.8	-53.58	24.78	105.33	106.7	Lib
10 Nov 2023	15h08m08.65s	-17 38' 05.1"	1.5479	2.5369	1.5	2.5	1.6	-53.69	25.31	105.46	106.5	Lib
11 Nov 2023	15h10m57.84s	-17 49' 58.2"	1.5467	2.5358	1.5	2.2	1.4	-53.81	25.84	105.59	106.3	Lib
12 Nov 2023	15h13m47.61s	-18 01' 43.0"	1.5454	2.5346	1.5	1.9	1.2	-53.92	26.36	105.72	106.1	Lib
13 Nov 2023	15h16m37.97s	-18 13' 19.4"	1.5441	2.5333	1.5	1.6	1.0	-54.03	26.88	105.84	105.9	Lib
14 Nov 2023	15h19m28.90s	-18 24' 47.2"	1.5428	2.5321	1.5	1.3	0.8	-54.13	27.40	105.97	105.6	Lib
15 Nov 2023	15h22m20.42s	-18 36' 06.2"	1.5416	2.5307	1.4	1.0	0.6	-54.23	27.91	106.09	105.4	Lib
16 Nov 2023	15h25m12.51s	-18 47' 16.3"	1.5403	2.5293	1.4	0.7	0.4	-54.33	28.42	106.22	105.2	Lib
17 Nov 2023	15h28m05.19s	-18 58' 17.3"	1.5390	2.5279	1.4	0.4	0.2	-54.43	28.93	106.34	104.9	Lib
18 Nov 2023	15h30m58.44s	-19 09' 09.1"	1.5377	2.5265	1.4	0.1	0.1	-54.52	29.43	106.46	104.7	Lib
19 Nov 2023	15h33m52.27s	-19 19' 51.4"	1.5365	2.5249	1.4	0.3	0.2	-54.61	29.93	106.58	104.5	Lib
20 Nov 2023	15h36m46.67s	-19 30' 24.2"	1.5352	2.5234	1.4	0.5	0.4	-54.69	30.43	106.70	104.2	Lib
21 Nov 2023	15h39m41.65s	-19 40' 47.2"	1.5339	2.5218	1.4	0.8	0.5	-54.77	30.92	106.82	104.0	Lib
22 Nov 2023	15h42m37.20s	-19 51' 00.3"	1.5326	2.5201	1.4	1.1	0.7	-54.85	31.41	106.94	103.8	Lib
23 Nov 2023	15h45m33.32s	-20 01' 03.4"	1.5313	2.5185	1.4	1.4	0.9	-54.92	31.89	107.06	103.5	Lib
24 Nov 2023	15h48m30.01s	-20 10' 56.3"	1.5300	2.5167	1.4	1.7	1.1	-55.00	32.38	107.18	103.3	Lib
25 Nov 2023	15h51m27.27s	-20 20' 38.9"	1.5287	2.5150	1.4	2.0	1.3	-55.06	32.85	107.30	103.0	Lib
26 Nov 2023	15h54m25.10s	-20 30' 11.0"	1.5274	2.5131	1.4	2.3	1.5	-55.13	33.32	107.43	102.8	Lib
27 Nov 2023	15h57m23.51s	-20 39' 32.5"	1.5261	2.5113	1.4	2.6	1.7	-55.19	33.79	107.55	102.5	Lib
28 Nov 2023	16h00m22.48s	-20 48' 43.2"	1.5248	2.5094	1.4	2.9	1.9	-55.25	34.25	107.67	102.2	Lib
29 Nov 2023	16h03m22.02s	-20 57' 43.0"	1.5235	2.5075	1.4	3.2	2.1	-55.30	34.71	107.80	102.0	Lib
30 Nov 2023	16h06m22.13s	-21 06' 31.7"	1.5222	2.5055	1.4	3.5	2.3	-55.36	35.16	107.92	101.7	Lib
1 Dez 2023	16h09m22.80s	-21 15' 09.2"	1.5209	2.5035	1.4	3.8	2.5	-55.40	35.61	108.05	101.4	Lib
2 Dez 2023	16h12m24.04s	-21 23' 35.3"	1.5196	2.5015	1.4	4.1	2.7	-55.45	36.05	108.18	101.2	Lib
3 Dez 2023	16h15m25.83s	-21 31' 50.0"	1.5183	2.4994	1.4	4.4	2.9	-55.49	36.49	108.31	100.9	Lib
4 Dez 2023	16h18m28.17s	-21 39' 52.9"	1.5170	2.4973	1.4	4.7	3.1	-55.53	36.92	108.43	100.6	Lib
5 Dez 2023	16h21m31.07s	-21 47' 44.1"	1.5157	2.4951	1.4	5.0	3.3	-55.57	37.35	108.56	100.3	Lib
6 Dez 2023	16h24m34.51s	-21 55' 23.4"	1.5144	2.4929	1.4	5.3	3.4	-55.60	37.77	108.69	100.1	Lib
7 Dez 2023	16h27m38.49s	-22 02' 50.5"	1.5131	2.4907	1.4	5.6	3.6	-55.63	38.19	108.81	99.8	Lib
8 Dez 2023	16h30m43.00s	-22 10' 05.4"	1.5118	2.4884	1.4	5.9	3.8	-55.65	38.60	108.94	99.5	Lib
9 Dez 2023	16h33m48.04s	-22 17' 07.8"	1.5105	2.4861	1.4	6.2	4.0	-55.67	39.00	109.06	99.2	Lib
10 Dez 2023	16h36m53.60s	-22 23' 57.8"	1.5092	2.4838	1.4	6.5	4.2	-55.69	39.40	109.19	98.9	Lib
11 Dez 2023	16h39m59.66s	-22 30' 35.1"	1.5079	2.4814	1.4	6.8	4.4	-55.71	39.79	109.31	98.6	Lib
12 Dez 2023	16h43m06.23s	-22 36' 59.5"	1.5066	2.4790	1.4	7.1	4.6	-55.72	40.18	109.43	98.3	Lib
13 Dez 2023	16h46m13.29s	-22 43' 11.0"	1.5053	2.4765	1.4	7.3	4.8	-55.73	40.56	109.55	98.0	Lib
14 Dez 2023	16h49m20.83s	-22 49' 09.4"	1.5040	2.4740	1.4	7.6	5.0	-55.74	40.94	109.67	97.7	Lib
15 Dez 2023	16h52m28.84s	-22 54' 54.6"	1.5026	2.4715	1.4	7.9	5.2	-55.74	41.31	109.78	97.4	Lib
16 Dez 2023	16h55m37.31s	-23 00' 26.4"	1.5013	2.4690	1.4	8.2	5.4	-55.74	41.67	109.90	97.1	Lib
17 Dez 2023	16h58m46.23s	-23 05' 44.7"	1.5000	2.4664	1.4	8.5	5.6	-55.74	42.03	110.01	96.8	Lib
18 Dez 2023	17h01m55.59s	-23 10' 49.4"	1.4987	2.4637	1.4	8.8	5.8	-55.73	42.38	110.12	96.5	Lib
19 Dez 2023	17h05m05.38s	-23 15' 40.4"	1.4974	2.4611	1.4	9.1	5.9	-55.72	42.73	110.24	96.2	Lib
20 Dez 2023	17h08m15.58s	-23 20' 17.6"	1.4961	2.4584	1.4	9.4	6.1	-55.70	43.07	110.35	95.9	Lib
21 Dez 2023	17h11m26.19s	-23 24' 40.8"	1.4948	2.4557	1.4	9.6	6.3	-55.69	43.40	110.46	95.6	Lib
22 Dez 2023	17h14m37.20s	-23 28' 50.0"	1.4935	2.4529	1.4	9.9	6.5	-55.67	43.73	110.57	95.3	Lib
23 Dez 2023	17h17m48.60s	-23 32' 45.1"	1.4922	2.4501	1.4	10.2	6.7	-55.64	44.05	110.68	95.0	Lib
24 Dez 2023	17h21m00.37s	-23 36' 25.9"	1.4910	2.4473	1.4	10.5	6.9	-55.61	44.37	110.79	94.7	Lib
25 Dez 2023	17h24m12.52s	-23 39' 52.3"	1.4897	2.4445	1.4	10.8	7.1	-55.58	44.68	110.90	94.4	Lib
26 Dez 2023	17h27m25.02s	-23 43' 04.4"	1.4884	2.4416	1.4	11.1	7.3	-55.55	44.99	111.02	94.0	Lib
27 Dez 2023	17h30m37.87s	-23 46' 02.0"	1.4871	2.4387	1.4	11.3	7.5	-55.51	45.28	111.13	93.7	Lib
28 Dez 2023	17h33m51.07s	-23 48' 44.9"	1.4858	2.4358	1.4	11.6	7.7	-55.47	45.58	111.24	93.4	Lib
29 Dez 2023	17h37m04.59s	-23 51' 13.2"	1.4845	2.4328	1.4	11.9	7.9	-55.43	45.86	111.36	93.1	Lib
30 Dez 2023	17h40m18.42s	-23 53' 26.7"	1.4832	2.4299	1.4	12.2	8.0	-55.38	46.14	111.47	92.8	Lib
31 Dez 2023	17h43m32.57s	-23 55' 25.3"	1.4820	2.4269	1.4	12.5	8.2	-55.33	46.42	111.59	92.4	Lib
1 Jan 2024	17h46m47.00s	-23 57' 09.1"	1.4807	2.4238	1.4	12.7	8.4	-55.27	46.69	111.70	92.1	Lib