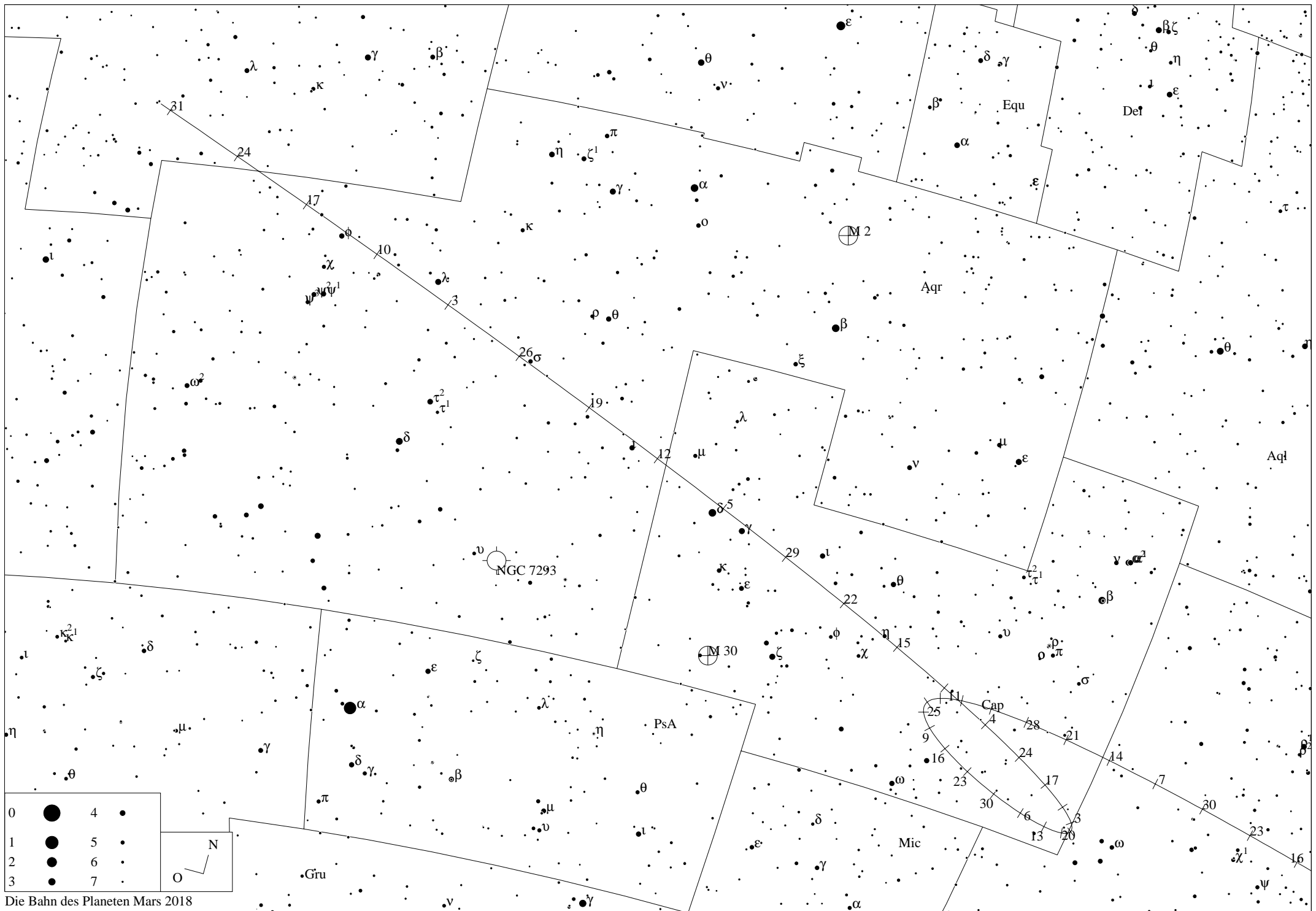


Die Bahn des Planeten Mars 2018



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EPHEMERIDE 2018 – MARS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
1 Jan 2018	14h46m58.25s	-15 09' 28.9"	1.6311	1.9557	1.5	56.3	30.1	-22.69	85.86	93.71	107.9	Lib
2 Jan 2018	14h49m25.94s	-15 20' 53.9"	1.6302	1.9469	1.5	56.7	30.3	-22.61	86.29	93.68	107.8	Lib
3 Jan 2018	14h51m53.85s	-15 32' 12.6"	1.6294	1.9382	1.5	57.1	30.5	-22.53	86.72	93.64	107.6	Lib
4 Jan 2018	14h54m21.98s	-15 43' 24.9"	1.6286	1.9293	1.5	57.5	30.6	-22.45	87.14	93.61	107.5	Lib
5 Jan 2018	14h56m50.33s	-15 54' 30.7"	1.6278	1.9205	1.4	57.9	30.8	-22.36	87.56	93.57	107.3	Lib
6 Jan 2018	14h59m18.90s	-16 05' 30.0"	1.6270	1.9116	1.4	58.3	31.0	-22.28	87.98	93.53	107.1	Lib
7 Jan 2018	15h01m47.68s	-16 16' 22.7"	1.6261	1.9026	1.4	58.7	31.1	-22.19	88.39	93.49	107.0	Lib
8 Jan 2018	15h04m16.68s	-16 27' 08.6"	1.6253	1.8937	1.4	59.1	31.3	-22.10	88.81	93.45	106.8	Lib
9 Jan 2018	15h06m45.89s	-16 37' 47.8"	1.6244	1.8847	1.4	59.5	31.4	-22.01	89.22	93.41	106.6	Lib
10 Jan 2018	15h09m15.31s	-16 48' 20.1"	1.6235	1.8757	1.4	59.9	31.6	-21.92	89.63	93.36	106.4	Lib
11 Jan 2018	15h11m44.93s	-16 58' 45.4"	1.6227	1.8666	1.4	60.3	31.8	-21.83	90.03	93.31	106.3	Lib
12 Jan 2018	15h14m14.75s	-17 09' 03.7"	1.6218	1.8576	1.4	60.7	31.9	-21.74	90.43	93.26	106.1	Lib
13 Jan 2018	15h16m44.76s	-17 19' 14.9"	1.6209	1.8485	1.4	61.1	32.1	-21.65	90.83	93.21	105.9	Lib
14 Jan 2018	15h19m14.97s	-17 29' 18.8"	1.6200	1.8393	1.4	61.5	32.3	-21.55	91.23	93.15	105.7	Lib
15 Jan 2018	15h21m45.37s	-17 39' 15.5"	1.6191	1.8302	1.4	61.9	32.4	-21.46	91.62	93.09	105.5	Lib
16 Jan 2018	15h24m16.95s	-17 49' 04.9"	1.6182	1.8210	1.3	62.3	32.6	-21.36	92.02	93.03	105.4	Lib
17 Jan 2018	15h26m46.71s	-17 58' 46.8"	1.6172	1.8118	1.3	62.7	32.7	-21.26	92.41	92.97	105.2	Lib
18 Jan 2018	15h29m17.64s	-18 08' 21.1"	1.6163	1.8025	1.3	63.1	32.9	-21.17	92.79	92.91	105.0	Lib
19 Jan 2018	15h31m48.74s	-18 17' 48.0"	1.6154	1.7933	1.3	63.5	33.0	-21.07	93.18	92.84	104.8	Lib
20 Jan 2018	15h34m20.02s	-18 27' 07.1"	1.6144	1.7840	1.3	63.9	33.2	-20.97	93.56	92.77	104.6	Lib
21 Jan 2018	15h36m51.45s	-18 36' 18.6"	1.6135	1.7747	1.3	64.3	33.3	-20.86	93.94	92.70	104.4	Lib
22 Jan 2018	15h39m23.05s	-18 45' 22.3"	1.6125	1.7654	1.3	64.7	33.5	-20.76	94.32	92.63	104.2	Lib
23 Jan 2018	15h41m54.80s	-18 54' 18.1"	1.6116	1.7560	1.3	65.1	33.6	-20.66	94.69	92.56	104.0	Lib
24 Jan 2018	15h44m26.70s	-19 03' 06.1"	1.6106	1.7467	1.3	65.5	33.8	-20.55	95.06	92.49	103.8	Lib
25 Jan 2018	15h46m58.76s	-19 11' 46.1"	1.6096	1.7373	1.3	65.9	33.9	-20.44	95.43	92.41	103.6	Lib
26 Jan 2018	15h49m30.96s	-19 20' 18.1"	1.6086	1.7279	1.2	66.3	34.1	-20.34	95.80	92.34	103.4	Lib
27 Jan 2018	15h52m03.31s	-19 28' 42.0"	1.6076	1.7185	1.2	66.7	34.2	-20.23	96.16	92.27	103.2	Lib
28 Jan 2018	15h54m35.81s	-19 36' 57.9"	1.6066	1.7090	1.2	67.1	34.4	-20.12	96.52	92.19	103.0	Lib
29 Jan 2018	15h57m08.45s	-19 45' 05.6"	1.6056	1.6996	1.2	67.5	34.5	-20.00	96.88	92.12	102.8	Lib
30 Jan 2018	15h59m41.23s	-19 53' 05.2"	1.6046	1.6901	1.2	67.9	34.7	-19.89	97.24	92.05	102.6	Lib
31 Jan 2018	16h02m14.15s	-20 00' 56.6"	1.6036	1.6806	1.2	68.3	34.8	-19.78	97.59	91.98	102.4	Lib
1 Feb 2018	16h04m47.20s	-20 08' 39.7"	1.6026	1.6711	1.2	68.7	35.0	-19.66	97.94	91.90	102.2	Lib
2 Feb 2018	16h07m20.39s	-20 16' 14.5"	1.6015	1.6616	1.2	69.1	35.1	-19.55	98.29	91.83	102.0	Lib
3 Feb 2018	16h09m53.71s	-20 23' 41.1"	1.6005	1.6521	1.2	69.5	35.2	-19.43	98.64	91.75	101.8	Lib
4 Feb 2018	16h12m27.14s	-20 30' 59.2"	1.5994	1.6426	1.1	69.9	35.4	-19.31	98.98	91.68	101.6	Lib
5 Feb 2018	16h15m00.69s	-20 38' 09.0"	1.5984	1.6331	1.1	70.3	35.5	-19.19	99.32	91.60	101.4	Lib
6 Feb 2018	16h17m34.34s	-20 45' 10.3"	1.5973	1.6235	1.1	70.7	35.6	-19.07	99.66	91.51	101.1	Lib
7 Feb 2018	16h20m08.09s	-20 52' 03.1"	1.5963	1.6139	1.1	71.1	35.8	-18.94	100.00	91.42	100.9	Lib
8 Feb 2018	16h22m41.92s	-20 58' 47.4"	1.5952	1.6043	1.1	71.5	35.9	-18.82	100.33	91.33	100.7	Lib
9 Feb 2018	16h25m15.83s	-21 05' 23.2"	1.5941	1.5948	1.1	71.9	36.0	-18.69	100.67	91.24	100.5	Lib
10 Feb 2018	16h27m49.81s	-21 11' 50.3"	1.5930	1.5852	1.1	72.3	36.2	-18.57	101.00	91.14	100.3	Lib
11 Feb 2018	16h30m23.85s	-21 18' 08.9"	1.5919	1.5756	1.1	72.8	36.3	-18.44	101.33	91.04	100.1	Lib
12 Feb 2018	16h32m57.93s	-21 24' 18.7"	1.5908	1.5659	1.0	73.2	36.4	-18.31	101.65	90.93	99.9	Lib
13 Feb 2018	16h35m32.05s	-21 30' 19.9"	1.5897	1.5563	1.0	73.6	36.6	-18.18	101.97	90.82	99.6	Lib
14 Feb 2018	16h38m06.21s	-21 36' 12.3"	1.5886	1.5467	1.0	74.0	36.7	-18.04	102.30	90.71	99.4	Lib
15 Feb 2018	16h40m40.37s	-21 41' 56.0"	1.5875	1.5370	1.0	74.4	36.8	-17.91	102.62	90.60	99.2	Lib
16 Feb 2018	16h43m14.55s	-21 47' 31.0"	1.5864	1.5274	1.0	74.8	36.9	-17.77	102.93	90.48	99.0	Lib
17 Feb 2018	16h45m48.73s	-21 52' 57.2"	1.5853	1.5177	1.0	75.2	37.1	-17.64	103.25	90.36	98.8	Lib
18 Feb 2018	16h48m22.89s	-21 58' 14.5"	1.5841	1.5081	1.0	75.6	37.2	-17.50	103.56	90.23	98.5	Lib
19 Feb 2018	16h50m57.03s	-22 03' 23.1"	1.5830	1.4984	1.0	76.0	37.3	-17.36	103.87	90.11	98.3	Lib
20 Feb 2018	16h53m31.15s	-22 08' 22.9"	1.5819	1.4888	0.9	76.4	37.4	-17.21	104.18	89.98	98.1	Lib
21 Feb 2018	16h56m05.23s	-22 13' 13.9"	1.5807	1.4791	0.9	76.8	37.5	-17.07	104.49	89.84	97.9	Lib
22 Feb 2018	16h58m39.26s	-22 17' 56.0"	1.5796	1.4695	0.9	77.2	37.6	-16.92	104.80	89.71	97.6	Lib
23 Feb 2018	17h01m13.24s	-22 22' 29.4"	1.5784	1.4598	0.9	77.6	37.8	-16.78	105.10	89.58	97.4	Lib
24 Feb 2018	17h03m47.17s	-22 26' 54.0"	1.5772	1.4501	0.9	78.0	37.9	-16.63	105.41	89.44	97.2	Lib
25 Feb 2018	17h06m21.02s	-22 31' 09.8"	1.5761	1.4405	0.9	78.5	38.0	-16.48	105.71	89.31	97.0	Lib
26 Feb 2018	17h08m54.81s	-22 35' 16.8"	1.5749	1.4308	0.9	78.9	38.1	-16.32	106.01	89.17	96.8	Lib
27 Feb 2018	17h11m28.52s	-22 39' 15.1"	1.5737	1.4212	0.8	79.3	38.2	-16.17	106.30	89.03	96.5	Lib
28 Feb 2018	17h14m02.15s	-22 43' 04.7"	1.5725	1.4116	0.8	79.7	38.3	-16.01	106.60	88.90	96.3	Lib
1 Mar 2018	17h16m35.69s	-22 46' 45.7"	1.5714	1.4019	0.8	80.1	38.4	-15.85	106.89	88.76	96.1	Lib
2 Mar 2018	17h19m09.13s	-22 50' 17.9"	1.5702	1.3923	0.8	80.5	38.5	-15.70	107.19	88.62	95.9	Lib
3 Mar 2018	17h21m42.46s	-22 53' 41.6"	1.5690	1.3827	0.8	80.9	38.6	-15.53	107.48	88.47	95.6	Lib
4 Mar 2018	17h24m15.67s	-22 56' 56.6"	1.5678	1.3731	0.8	81.3	38.7	-15.37	107.77	88.32	95.4	Lib
5 Mar 2018	17h26m48.75s	-23 00' 03.1"	1.5666	1.3634	0.7	81.7	38.8	-15.21	108.06	88.17	95.2	Lib
6 Mar 2018	17h29m21.69s	-23 03' 01.1"	1.5654	1.3538	0.7	82.2	38.9	-15.04	108.35	88.01	95.0	Lib
7 Mar 2018	17h31m54.47s	-23 05' 50.6"	1.5641	1.3442	0.7	82.6	39.0	-14.87	108.63	87.85	94.8	Lib
8 Mar 2018	17h34m27.08s	-23 08' 31.6"	1.5629	1.3346	0.7	83.0	39.1	-14.70	108.92	87.68	94.5	Lib
9 Mar 2018	17h36m59.51s	-23 11' 04.1"	1.5617	1.3250	0.7	83.4	39.2	-14.53	109.20	87.51	94.3	Lib
10 Mar 2018	17h39m31.74s	-23 13' 28.3"	1.5605	1.3155	0.7	83.8	39.2	-14.35	109.49	87.33	94.1	Lib
11 Mar 2018	17h42m03.75s	-23 15' 44.2"	1.5592	1.3059	0.7	84.2	39.3	-14.18	109.77	87.15	93.9	Lib
12 Mar 2018	17h44m35.54s	-23 17' 51.8"	1.5580	1.2963	0.6	84.6	39.4	-14.00	110.05	86.96	93.7	Lib
13 Mar 2018	17h47m07.08s	-23 19' 51.2"	1.5568	1.2868	0.6	85.1	39.5	-13.82	110.33	86.76	93.5	Lib
14 Mar 2018	17h49m38.36s	-23 21' 42.3"	1.5555	1.2772	0.6	85.5	39.6	-13.64	110.61	86.56	93.2	Lib
15 Mar 2018	17h52m09.36s	-23 23' 25.4"	1.5543	1.2677	0.6	85.9	39.7	-13.45	110.89	86.35	93.0	Lib

EPHEMERIDE 2018 – MARS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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16 Mar 2018	17h54m40.08s	-23 25' 00.4"	1.5530	1.2582	0.6	86.3	39.7	-13.27	111.17	86.14	92.8	Sgr
17 Mar 2018	17h57m10.49s	-23 26' 27.4"	1.5518	1.2487	0.6	86.7	39.8	-13.08	111.45	85.92	92.6	Sgr
18 Mar 2018	17h59m40.58s	-23 27' 46.5"	1.5505	1.2392	0.5	87.2	39.9	-12.89	111.73	85.70	92.4	Sgr
19 Mar 2018	18h02m10.34s	-23 28' 57.8"	1.5493	1.2297	0.5	87.6	39.9	-12.70	112.01	85.47	92.2	Sgr
20 Mar 2018	18h04m39.76s	-23 30' 01.3"	1.5480	1.2203	0.5	88.0	40.0	-12.50	112.28	85.23	92.0	Sgr
21 Mar 2018	18h07m08.81s	-23 30' 57.1"	1.5468	1.2108	0.5	88.4	40.1	-12.31	112.56	84.99	91.8	Sgr
22 Mar 2018	18h09m37.49s	-23 31' 45.3"	1.5455	1.2014	0.5	88.9	40.1	-12.11	112.84	84.75	91.6	Sgr
23 Mar 2018	18h12m05.80s	-23 32' 26.0"	1.5442	1.1920	0.4	89.3	40.2	-11.91	113.12	84.50	91.4	Sgr
24 Mar 2018	18h14m33.71s	-23 32' 59.3"	1.5429	1.1826	0.4	89.7	40.2	-11.70	113.39	84.25	91.1	Sgr
25 Mar 2018	18h17m01.22s	-23 33' 25.3"	1.5417	1.1733	0.4	90.1	40.3	-11.50	113.67	84.00	90.9	Sgr
26 Mar 2018	18h19m28.33s	-23 33' 44.1"	1.5404	1.1639	0.4	90.6	40.4	-11.29	113.95	83.75	90.7	Sgr
27 Mar 2018	18h21m55.01s	-23 33' 55.8"	1.5391	1.1546	0.4	91.0	40.4	-11.08	114.22	83.49	90.6	Sgr
28 Mar 2018	18h24m21.27s	-23 34' 00.4"	1.5378	1.1453	0.4	91.4	40.4	-10.87	114.50	83.23	90.4	Sgr
29 Mar 2018	18h26m47.09s	-23 33' 58.3"	1.5366	1.1360	0.3	91.9	40.5	-10.66	114.78	82.96	90.2	Sgr
30 Mar 2018	18h29m12.46s	-23 33' 49.3"	1.5353	1.1267	0.3	92.3	40.5	-10.44	115.06	82.69	90.0	Sgr
31 Mar 2018	18h31m37.37s	-23 33' 33.7"	1.5340	1.1175	0.3	92.7	40.6	-10.23	115.34	82.41	89.8	Sgr
1 Apr 2018	18h34m01.80s	-23 33' 11.6"	1.5327	1.1083	0.3	93.2	40.6	-10.01	115.62	82.13	89.6	Sgr
2 Apr 2018	18h36m25.74s	-23 32' 43.2"	1.5314	1.0991	0.3	93.6	40.6	-9.79	115.90	81.84	89.4	Sgr
3 Apr 2018	18h38m49.18s	-23 32' 08.4"	1.5301	1.0899	0.2	94.0	40.7	-9.56	116.18	81.54	89.2	Sgr
4 Apr 2018	18h41m12.09s	-23 31' 27.5"	1.5288	1.0808	0.2	94.5	40.7	-9.34	116.46	81.23	89.1	Sgr
5 Apr 2018	18h43m34.46s	-23 30' 40.7"	1.5275	1.0717	0.2	94.9	40.7	-9.11	116.74	80.92	88.9	Sgr
6 Apr 2018	18h45m56.28s	-23 29' 47.9"	1.5262	1.0626	0.2	95.4	40.7	-8.88	117.03	80.59	88.7	Sgr
7 Apr 2018	18h48m17.51s	-23 28' 49.5"	1.5249	1.0535	0.2	95.8	40.8	-8.65	117.31	80.26	88.5	Sgr
8 Apr 2018	18h50m38.14s	-23 27' 45.5"	1.5236	1.0445	0.1	96.3	40.8	-8.41	117.60	79.91	88.4	Sgr
9 Apr 2018	18h52m58.15s	-23 26' 36.2"	1.5223	1.0354	0.1	96.7	40.8	-8.18	117.89	79.55	88.2	Sgr
10 Apr 2018	18h55m17.52s	-23 25' 21.5"	1.5210	1.0264	0.1	97.2	40.8	-7.94	118.18	79.19	88.0	Sgr
11 Apr 2018	18h57m36.24s	-23 24' 01.8"	1.5197	1.0175	0.1	97.6	40.8	-7.70	118.47	78.81	87.9	Sgr
12 Apr 2018	18h59m54.27s	-23 22' 37.1"	1.5184	1.0085	0.1	98.1	40.8	-7.46	118.76	78.42	87.7	Sgr
13 Apr 2018	19h02m11.60s	-23 21' 07.7"	1.5171	0.9996	0.0	98.5	40.8	-7.21	119.05	78.02	87.6	Sgr
14 Apr 2018	19h04m28.21s	-23 19' 33.7"	1.5158	0.9908	0.0	99.0	40.8	-6.97	119.35	77.61	87.4	Sgr
15 Apr 2018	19h06m44.08s	-23 17' 55.4"	1.5145	0.9819	-0.0	99.4	40.8	-6.72	119.65	77.19	87.3	Sgr
16 Apr 2018	19h08m59.18s	-23 16' 12.7"	1.5132	0.9731	-0.0	99.9	40.8	-6.47	119.95	76.75	87.1	Sgr
17 Apr 2018	19h11m13.51s	-23 14' 26.1"	1.5119	0.9643	-0.0	100.4	40.8	-6.22	120.25	76.31	87.0	Sgr
18 Apr 2018	19h13m27.03s	-23 12' 35.6"	1.5106	0.9555	-0.1	100.8	40.8	-5.96	120.56	75.86	86.8	Sgr
19 Apr 2018	19h15m39.75s	-23 10' 41.4"	1.5093	0.9468	-0.1	101.3	40.7	-5.71	120.87	75.39	86.7	Sgr
20 Apr 2018	19h17m51.63s	-23 08' 43.7"	1.5080	0.9381	-0.1	101.8	40.7	-5.45	121.18	74.92	86.6	Sgr
21 Apr 2018	19h20m02.66s	-23 06' 42.8"	1.5066	0.9295	-0.1	102.3	40.7	-5.19	121.49	74.44	86.5	Sgr
22 Apr 2018	19h22m12.84s	-23 04' 38.7"	1.5053	0.9209	-0.2	102.7	40.6	-4.93	121.81	73.96	86.4	Sgr
23 Apr 2018	19h24m22.14s	-23 02' 31.9"	1.5040	0.9123	-0.2	103.2	40.6	-4.66	122.13	73.46	86.2	Sgr
24 Apr 2018	19h26m30.56s	-23 00' 22.3"	1.5027	0.9038	-0.2	103.7	40.6	-4.40	122.45	72.96	86.1	Sgr
25 Apr 2018	19h28m38.08s	-22 58' 10.3"	1.5014	0.8953	-0.2	104.2	40.5	-4.13	122.77	72.44	86.0	Sgr
26 Apr 2018	19h30m44.68s	-22 55' 56.0"	1.5001	0.8868	-0.3	104.7	40.5	-3.86	123.10	71.92	85.9	Sgr
27 Apr 2018	19h32m50.35s	-22 53' 39.7"	1.4988	0.8784	-0.3	105.2	40.4	-3.59	123.43	71.38	85.8	Sgr
28 Apr 2018	19h34m55.06s	-22 51' 21.6"	1.4975	0.8700	-0.3	105.6	40.3	-3.32	123.77	70.84	85.7	Sgr
29 Apr 2018	19h37m03.81s	-22 49' 01.9"	1.4962	0.8616	-0.3	106.1	40.3	-3.05	124.11	70.28	85.7	Sgr
30 Apr 2018	19h39m01.56s	-22 46' 40.9"	1.4949	0.8533	-0.3	106.6	40.2	-2.77	124.45	69.71	85.6	Sgr
1 Mai 2018	19h41m03.30s	-22 44' 18.9"	1.4936	0.8451	-0.4	107.1	40.1	-2.50	124.80	69.12	85.5	Sgr
2 Mai 2018	19h43m04.00s	-22 41' 55.9"	1.4923	0.8368	-0.4	107.6	40.1	-2.22	125.15	68.51	85.5	Sgr
3 Mai 2018	19h45m03.62s	-22 39' 32.4"	1.4910	0.8287	-0.4	108.2	40.0	-1.94	125.50	67.89	85.4	Sgr
4 Mai 2018	19h47m02.15s	-22 37' 08.6"	1.4897	0.8205	-0.4	108.7	39.9	-1.66	125.86	67.25	85.3	Sgr
5 Mai 2018	19h48m59.56s	-22 34' 44.7"	1.4884	0.8124	-0.5	109.2	39.8	-1.38	126.23	66.59	85.3	Sgr
6 Mai 2018	19h50m55.81s	-22 32' 21.0"	1.4872	0.8043	-0.5	109.7	39.7	-1.09	126.60	65.91	85.3	Sgr
7 Mai 2018	19h52m50.88s	-22 29' 57.8"	1.4859	0.7963	-0.5	110.2	39.6	-0.81	126.97	65.22	85.2	Sgr
8 Mai 2018	19h54m44.73s	-22 27' 35.3"	1.4846	0.7883	-0.5	110.8	39.5	-0.52	127.35	64.50	85.2	Sgr
9 Mai 2018	19h56m37.33s	-22 25' 13.8"	1.4833	0.7804	-0.6	111.3	39.4	-0.24	127.74	63.76	85.2	Sgr
10 Mai 2018	19h58m28.65s	-22 22' 53.7"	1.4820	0.7725	-0.6	111.8	39.2	0.05	128.13	63.00	85.2	Sgr
11 Mai 2018	20h00m18.66s	-22 20' 35.1"	1.4807	0.7647	-0.6	112.4	39.1	0.34	128.52	62.22	85.2	Sgr
12 Mai 2018	20h02m07.32s	-22 18' 18.5"	1.4795	0.7569	-0.7	112.9	39.0	0.63	128.92	61.42	85.2	Sgr
13 Mai 2018	20h03m54.60s	-22 16' 04.1"	1.4782	0.7491	-0.7	113.5	38.8	0.92	129.33	60.59	85.3	Sgr
14 Mai 2018	20h05m40.46s	-22 13' 52.1"	1.4769	0.7414	-0.7	114.0	38.7	1.21	129.74	59.75	85.3	Sgr
15 Mai 2018	20h07m24.87s	-22 11' 43.0"	1.4757	0.7338	-0.7	114.6	38.5	1.50	130.16	58.88	85.4	Cap
16 Mai 2018	20h09m07.81s	-22 09' 36.9"	1.4744	0.7262	-0.8	115.2	38.4	1.79	130.59	57.99	85.4	Cap
17 Mai 2018	20h10m49.23s	-22 07' 34.2"	1.4731	0.7186	-0.8	115.7	38.2	2.09	131.02	57.09	85.5	Cap
18 Mai 2018	20h12m29.12s	-22 05' 35.2"	1.4719	0.7111	-0.8	116.3	38.0	2.38	131.46	56.17	85.6	Cap
19 Mai 2018	20h14m07.45s	-22 03' 40.2"	1.4706	0.7037	-0.8	116.9	37.8	2.67	131.91	55.23	85.7	Cap
20 Mai 2018	20h15m44.18s	-22 01' 49.4"	1.4694	0.6963	-0.9	117.5	37.7	2.97	132.37	54.27	85.8	Cap
21 Mai 2018	20h17m19.29s	-22 00' 03.2"	1.4681	0.6890	-0.9	118.1	37.5	3.26	132.83	53.29	85.9	Cap
22 Mai 2018	20h18m52.76s	-21 58' 21.9"	1.4669	0.6817	-0.9	118.7	37.3	3.55	133.30	52.30	86.1	Cap
23 Mai 2018	20h20m24.56s	-21 56' 45.7"	1.4657	0.6745	-1.0	119.3	37.0	3.85	133.78	51.29	86.3	Cap
24 Mai 2018	20h21m54.66s	-21 55' 15.0"	1.4644	0.6673	-1.0	119.9	36.8	4.14	134.27	50.25	86.4	Cap
25 Mai 2018	20h23m23.02s	-21 53' 50.0"	1.4632	0.6602	-1.0	120.5	36.6	4.43	134.76	49.20	86.7	Cap
26 Mai 2018	20h24m49.61s	-21 52' 31.2"	1.4620	0.6532	-1.0	121.2	36.4	4.73	135.26	48.13	86.9	Cap
27 Mai 2018	20h26m14.40s	-21 51' 18.7"	1.4608	0.6462	-1.1	121.8	36.1	5.02	135.78	47.03	87.1	Cap
28 Mai 2018	20h27m37.35s	-21 50' 13.0"	1.4595	0.6393	-1.1	122.4	35.9	5.31	136.30	45.91	87.4	Cap

EPHEMERIDE 2018 – MARS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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29 Mai 2018	20h28m58.41s	-21 49' 14.3"	1.4583	0.6325	-1.1	123.1	35.6	5.60	136.83	44.76	87.8	Cap
30 Mai 2018	20h30m17.55s	-21 48' 23.0"	1.4571	0.6257	-1.2	123.7	35.3	5.89	137.37	43.59	88.1	Cap
31 Mai 2018	20h31m34.71s	-21 47' 39.5"	1.4559	0.6189	-1.2	124.4	35.1	6.17	137.92	42.39	88.5	Cap
1 Jun 2018	20h32m49.85s	-21 47' 03.9"	1.4547	0.6123	-1.2	125.1	34.8	6.46	138.48	41.16	88.9	Cap
2 Jun 2018	20h34m02.92s	-21 46' 36.7"	1.4536	0.6057	-1.2	125.7	34.5	6.74	139.04	39.90	89.4	Cap
3 Jun 2018	20h35m13.88s	-21 46' 18.3"	1.4524	0.5991	-1.3	126.4	34.2	7.03	139.62	38.62	89.9	Cap
4 Jun 2018	20h36m22.66s	-21 46' 08.8"	1.4512	0.5926	-1.3	127.1	33.9	7.31	140.22	37.31	90.5	Cap
5 Jun 2018	20h37m29.22s	-21 46' 08.6"	1.4500	0.5862	-1.3	127.8	33.5	7.58	140.82	35.97	91.1	Cap
6 Jun 2018	20h38m33.51s	-21 46' 18.1"	1.4489	0.5799	-1.4	128.5	33.2	7.86	141.43	34.61	91.8	Cap
7 Jun 2018	20h39m35.48s	-21 46' 37.6"	1.4477	0.5736	-1.4	129.3	32.9	8.13	142.05	33.22	92.6	Cap
8 Jun 2018	20h40m35.06s	-21 47' 07.3"	1.4465	0.5674	-1.4	130.0	32.5	8.40	142.69	31.80	93.5	Cap
9 Jun 2018	20h41m32.20s	-21 47' 47.5"	1.4454	0.5613	-1.5	130.7	32.2	8.67	143.34	30.36	94.5	Cap
10 Jun 2018	20h42m26.86s	-21 48' 38.6"	1.4443	0.5553	-1.5	131.5	31.8	8.93	144.00	28.91	95.7	Cap
11 Jun 2018	20h43m18.98s	-21 49' 40.7"	1.4431	0.5493	-1.5	132.2	31.4	9.20	144.67	27.43	96.9	Cap
12 Jun 2018	20h44m08.51s	-21 50' 54.1"	1.4420	0.5434	-1.6	133.0	31.0	9.45	145.36	25.94	98.4	Cap
13 Jun 2018	20h44m55.39s	-21 52' 19.0"	1.4409	0.5376	-1.6	133.8	30.6	9.71	146.06	24.45	100.0	Cap
14 Jun 2018	20h45m39.60s	-21 53' 55.7"	1.4398	0.5319	-1.6	134.6	30.2	9.95	146.77	22.96	101.9	Cap
15 Jun 2018	20h46m21.09s	-21 55' 44.2"	1.4386	0.5262	-1.6	135.4	29.7	10.20	147.49	21.47	104.1	Cap
16 Jun 2018	20h46m59.81s	-21 57' 44.7"	1.4375	0.5207	-1.7	136.2	29.3	10.44	148.23	20.01	106.7	Cap
17 Jun 2018	20h47m35.75s	-21 59' 57.4"	1.4365	0.5152	-1.7	137.0	28.8	10.67	148.99	18.57	109.6	Cap
18 Jun 2018	20h48m08.87s	-22 02' 22.3"	1.4354	0.5098	-1.7	137.8	28.4	10.90	149.75	17.17	113.1	Cap
19 Jun 2018	20h48m39.14s	-22 04' 59.5"	1.4343	0.5045	-1.8	138.7	27.9	11.12	150.53	15.84	117.2	Cap
20 Jun 2018	20h49m06.52s	-22 07' 49.0"	1.4332	0.4993	-1.8	139.5	27.4	11.34	151.33	14.59	122.1	Cap
21 Jun 2018	20h49m31.00s	-22 10' 50.9"	1.4322	0.4942	-1.8	140.4	26.9	11.55	152.14	13.45	127.8	Cap
22 Jun 2018	20h49m52.54s	-22 14' 05.1"	1.4311	0.4892	-1.9	141.3	26.4	11.75	152.96	12.46	134.6	Cap
23 Jun 2018	20h50m11.11s	-22 17' 31.7"	1.4301	0.4843	-1.9	142.2	25.8	11.95	153.80	11.66	142.6	Cap
24 Jun 2018	20h50m26.68s	-22 21' 10.7"	1.4290	0.4795	-1.9	143.1	25.3	12.14	154.65	11.10	151.5	Cap
25 Jun 2018	20h50m39.23s	-22 25' 01.9"	1.4280	0.4748	-2.0	144.0	24.7	12.32	155.52	10.83	161.2	Cap
26 Jun 2018	20h50m48.71s	-22 29' 05.3"	1.4270	0.4702	-2.0	144.9	24.2	12.49	156.40	10.87	171.1	Cap
27 Jun 2018	20h50m55.12s	-22 33' 20.6"	1.4259	0.4656	-2.0	145.8	23.6	12.66	157.29	11.23	180.8	Cap
28 Jun 2018	20h50m58.41s	-22 37' 47.9"	1.4249	0.4612	-2.1	146.8	23.0	12.81	158.20	11.87	189.7	Cap
29 Jun 2018	20h50m58.57s	-22 42' 26.7"	1.4239	0.4569	-2.1	147.7	22.4	12.96	159.13	12.76	197.6	Cap
30 Jun 2018	20h50m55.58s	-22 47' 17.0"	1.4230	0.4527	-2.1	148.7	21.8	13.09	160.07	13.85	204.4	Cap
1 Jul 2018	20h50m49.43s	-22 52' 18.4"	1.4220	0.4486	-2.2	149.7	21.2	13.22	161.02	15.10	210.2	Cap
2 Jul 2018	20h50m40.10s	-22 57' 30.5"	1.4210	0.4446	-2.2	150.6	20.5	13.33	161.98	16.46	215.0	Cap
3 Jul 2018	20h50m27.58s	-23 02' 53.1"	1.4200	0.4408	-2.2	151.6	19.9	13.44	162.97	17.91	219.2	Cap
4 Jul 2018	20h50m11.87s	-23 08' 25.5"	1.4191	0.4370	-2.2	152.6	19.2	13.53	163.96	19.42	222.7	Cap
5 Jul 2018	20h49m52.99s	-23 14' 07.5"	1.4182	0.4334	-2.3	153.7	18.6	13.61	164.97	20.98	225.8	Cap
6 Jul 2018	20h49m30.94s	-23 19' 58.4"	1.4172	0.4298	-2.3	154.7	17.9	13.68	165.99	22.55	228.4	Cap
7 Jul 2018	20h49m05.74s	-23 25' 57.6"	1.4163	0.4264	-2.3	155.7	17.2	13.74	167.02	24.14	230.7	Cap
8 Jul 2018	20h48m37.42s	-23 32' 04.5"	1.4154	0.4232	-2.4	156.7	16.5	13.79	168.07	25.73	232.8	Cap
9 Jul 2018	20h48m06.03s	-23 38' 18.5"	1.4145	0.4200	-2.4	157.8	15.8	13.82	169.13	27.30	234.6	Cap
10 Jul 2018	20h47m31.60s	-23 44' 38.6"	1.4136	0.4170	-2.4	158.8	15.0	13.84	170.20	28.84	236.2	Cap
11 Jul 2018	20h46m54.22s	-23 51' 04.2"	1.4127	0.4141	-2.5	159.9	14.3	13.85	171.28	30.35	237.7	Cap
12 Jul 2018	20h46m13.94s	-23 57' 34.3"	1.4118	0.4113	-2.5	161.0	13.6	13.84	172.37	31.81	239.1	Cap
13 Jul 2018	20h45m30.87s	-24 04' 08.0"	1.4110	0.4087	-2.5	162.0	12.8	13.82	173.47	33.22	240.3	Cap
14 Jul 2018	20h44m45.10s	-24 10' 44.3"	1.4101	0.4062	-2.5	163.1	12.1	13.79	174.59	34.56	241.5	Cap
15 Jul 2018	20h43m56.76s	-24 17' 22.4"	1.4093	0.4038	-2.6	164.2	11.4	13.74	175.71	35.83	242.5	Cap
16 Jul 2018	20h43m05.96s	-24 24' 01.0"	1.4085	0.4016	-2.6	165.2	10.6	13.67	176.83	37.02	243.5	Cap
17 Jul 2018	20h42m12.84s	-24 30' 39.3"	1.4076	0.3995	-2.6	166.3	9.9	13.60	177.97	38.12	244.5	Cap
18 Jul 2018	20h41m17.55s	-24 37' 16.2"	1.4068	0.3975	-2.6	167.3	9.2	13.51	179.11	39.14	245.4	Cap
19 Jul 2018	20h40m20.22s	-24 43' 50.6"	1.4060	0.3957	-2.7	168.3	8.4	13.40	180.25	40.07	246.2	Cap
20 Jul 2018	20h39m21.00s	-24 50' 21.6"	1.4052	0.3940	-2.7	169.3	7.7	13.28	181.40	40.91	247.0	Cap
21 Jul 2018	20h38m20.05s	-24 56' 48.1"	1.4045	0.3925	-2.7	170.2	7.1	13.15	182.55	41.65	247.8	Cap
22 Jul 2018	20h37m17.53s	-25 03' 09.1"	1.4037	0.3911	-2.7	171.1	6.5	13.00	183.71	42.30	248.6	Cap
23 Jul 2018	20h36m13.60s	-25 09' 23.6"	1.4030	0.3899	-2.7	171.8	5.9	12.84	184.86	42.85	249.4	Cap
24 Jul 2018	20h35m08.42s	-25 15' 30.7"	1.4022	0.3888	-2.8	172.5	5.4	12.66	186.02	43.30	250.1	Cap
25 Jul 2018	20h34m02.18s	-25 21' 29.3"	1.4015	0.3878	-2.8	173.0	5.0	12.47	187.18	43.64	250.8	Cap
26 Jul 2018	20h32m55.04s	-25 27' 18.6"	1.4008	0.3870	-2.8	173.4	4.8	12.27	188.33	43.88	251.6	Cap
27 Jul 2018	20h31m47.18s	-25 32' 57.7"	1.4001	0.3863	-2.8	173.5	4.7	12.05	189.49	44.02	252.3	Cap
28 Jul 2018	20h30m38.78s	-25 38' 25.7"	1.3994	0.3857	-2.8	173.4	4.8	11.83	190.64	44.06	253.0	Cap
29 Jul 2018	20h29m30.04s	-25 43' 41.8"	1.3987	0.3853	-2.8	173.1	5.0	11.59	191.79	43.99	253.7	Cap
30 Jul 2018	20h28m21.14s	-25 48' 45.2"	1.3980	0.3851	-2.8	172.6	5.4	11.33	192.93	43.81	254.4	Cap
31 Jul 2018	20h27m12.26s	-25 53' 35.1"	1.3974	0.3850	-2.8	172.0	5.8	11.07	194.07	43.52	255.2	Cap
1 Aug 2018	20h26m03.60s	-25 58' 10.9"	1.3967	0.3850	-2.8	171.2	6.4	10.80	195.21	43.14	255.9	Cap
2 Aug 2018	20h24m55.35s	-26 02' 32.0"	1.3961	0.3852	-2.8	170.3	7.0	10.51	196.34	42.64	256.6	Cap
3 Aug 2018	20h23m47.71s	-26 06' 37.6"	1.3955	0.3855	-2.7	169.4	7.7	10.22	197.46	42.04	257.4	Cap
4 Aug 2018	20h22m40.86s	-26 10' 27.4"	1.3948	0.3859	-2.7	168.4	8.4	9.91	198.57	41.34	258.2	Cap
5 Aug 2018	20h21m34.99s	-26 14' 00.7"	1.3943	0.3865	-2.7	167.4	9.1	9.60	199.67	40.54	259.0	Cap
6 Aug 2018	20h20m30.31s	-26 17' 17.1"	1.3937	0.3872	-2.7	166.4	9.9	9.28	200.77	39.64	259.8	Cap
7 Aug 2018	20h19m27.01s	-26 20' 16.3"	1.3931	0.3881	-2.7	165.3	10.6	8.95	201.85	38.63	260.7	Cap
8 Aug 2018	20h18m25.26s	-26 22' 57.9"	1.3925	0.3891	-2.7	164.2	11.4	8.62	202.93	37.53	261.6	Cap
9 Aug 2018	20h17m25.27s	-26 25' 21.7"	1.3920	0.3902	-2.7	163.2	12.2	8.28	204.00	36.33	262.6	Cap
10 Aug 2018	20h16m27.22s	-26 27' 27.4"	1.3915	0.3915	-2.6	162.1	13.0	7.93	205.05	35.05	263.6	Cap

EPHEMERIDE 2018 – MARS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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11 Aug 2018	20h15m31.30s	-26 29' 14.9"	1.3909	0.3929	-2.6	161.0	13.7	7.57	206.09	33.67	264.7	Cap
12 Aug 2018	20h14m37.67s	-26 30' 44.1"	1.3904	0.3944	-2.6	159.9	14.5	7.22	207.12	32.21	265.9	Cap
13 Aug 2018	20h13m46.50s	-26 31' 54.9"	1.3899	0.3960	-2.6	158.8	15.3	6.86	208.14	30.68	267.1	Cap
14 Aug 2018	20h12m57.94s	-26 32' 47.5"	1.3895	0.3978	-2.6	157.7	16.0	6.49	209.15	29.09	268.5	Cap
15 Aug 2018	20h12m12.13s	-26 33' 21.8"	1.3890	0.3997	-2.5	156.7	16.8	6.12	210.14	27.44	270.0	Cap
16 Aug 2018	20h11m29.20s	-26 33' 38.1"	1.3886	0.4018	-2.5	155.6	17.5	5.75	211.12	25.75	271.7	Cap
17 Aug 2018	20h10m49.25s	-26 33' 36.6"	1.3881	0.4039	-2.5	154.5	18.3	5.38	212.08	24.03	273.7	Cap
18 Aug 2018	20h10m12.39s	-26 33' 17.3"	1.3877	0.4062	-2.5	153.5	19.0	5.01	213.04	22.29	275.9	Cap
19 Aug 2018	20h09m38.68s	-26 32' 40.8"	1.3873	0.4086	-2.4	152.4	19.7	4.63	213.98	20.54	278.4	Cap
20 Aug 2018	20h09m08.21s	-26 31' 47.0"	1.3869	0.4110	-2.4	151.4	20.4	4.26	214.90	18.80	281.5	Cap
21 Aug 2018	20h08m41.03s	-26 30' 36.5"	1.3865	0.4137	-2.4	150.4	21.1	3.88	215.81	17.10	285.1	Cap
22 Aug 2018	20h08m17.21s	-26 29' 09.5"	1.3861	0.4164	-2.4	149.4	21.8	3.51	216.71	15.44	289.4	Cap
23 Aug 2018	20h07m56.76s	-26 27' 26.3"	1.3858	0.4192	-2.3	148.4	22.5	3.14	217.60	13.87	294.8	Cap
24 Aug 2018	20h07m39.74s	-26 25' 27.2"	1.3854	0.4221	-2.3	147.4	23.2	2.77	218.47	12.43	301.4	Cap
25 Aug 2018	20h07m26.16s	-26 23' 12.7"	1.3851	0.4251	-2.3	146.4	23.8	2.40	219.33	11.18	309.5	Sgr
26 Aug 2018	20h07m16.04s	-26 20' 42.9"	1.3848	0.4282	-2.3	145.4	24.5	2.03	220.18	10.19	319.5	Sgr
27 Aug 2018	20h07m09.39s	-26 17' 58.2"	1.3845	0.4315	-2.2	144.5	25.1	1.66	221.01	9.56	331.1	Sgr
28 Aug 2018	20h07m06.21s	-26 14' 59.0"	1.3842	0.4348	-2.2	143.5	25.7	1.30	221.83	9.34	343.8	Sgr
29 Aug 2018	20h07m06.50s	-26 11' 45.5"	1.3839	0.4382	-2.2	142.6	26.3	0.94	222.64	9.58	356.3	Sgr
30 Aug 2018	20h07m10.25s	-26 08' 18.1"	1.3837	0.4417	-2.2	141.7	26.9	0.58	223.44	10.23	7.8	Sgr
31 Aug 2018	20h07m17.45s	-26 04' 37.1"	1.3834	0.4453	-2.1	140.8	27.5	0.23	224.22	11.22	17.6	Sgr
1 Sep 2018	20h07m28.08s	-26 00' 42.8"	1.3832	0.4489	-2.1	139.9	28.1	-0.12	224.99	12.46	25.5	Sgr
2 Sep 2018	20h07m42.13s	-25 56' 35.3"	1.3830	0.4527	-2.1	139.0	28.6	-0.47	225.76	13.88	31.9	Cap
3 Sep 2018	20h07m59.58s	-25 52' 15.0"	1.3828	0.4565	-2.1	138.1	29.2	-0.81	226.51	15.43	37.1	Cap
4 Sep 2018	20h08m20.40s	-25 47' 42.2"	1.3826	0.4605	-2.0	137.3	29.7	-1.15	227.24	17.07	41.3	Cap
5 Sep 2018	20h08m44.57s	-25 42' 57.0"	1.3824	0.4645	-2.0	136.4	30.2	-1.49	227.97	18.76	44.7	Cap
6 Sep 2018	20h09m12.07s	-25 37' 59.7"	1.3822	0.4686	-2.0	135.6	30.7	-1.82	228.69	20.50	47.6	Cap
7 Sep 2018	20h09m42.87s	-25 32' 50.5"	1.3821	0.4728	-1.9	134.7	31.2	-2.14	229.40	22.26	50.0	Cap
8 Sep 2018	20h10m16.94s	-25 27' 29.6"	1.3820	0.4770	-1.9	133.9	31.7	-2.46	230.10	24.04	52.0	Cap
9 Sep 2018	20h10m54.25s	-25 21' 57.3"	1.3819	0.4813	-1.9	133.1	32.1	-2.78	230.78	25.82	53.8	Cap
10 Sep 2018	20h11m34.76s	-25 16' 13.6"	1.3818	0.4857	-1.9	132.3	32.6	-3.09	231.46	27.61	55.3	Cap
11 Sep 2018	20h12m18.43s	-25 10' 18.8"	1.3817	0.4902	-1.8	131.6	33.0	-3.39	232.13	29.39	56.6	Cap
12 Sep 2018	20h13m05.21s	-25 04' 13.0"	1.3816	0.4948	-1.8	130.8	33.5	-3.70	232.79	31.15	57.8	Cap
13 Sep 2018	20h13m55.04s	-24 57' 56.6"	1.3815	0.4994	-1.8	130.0	33.9	-3.99	233.44	32.89	58.8	Cap
14 Sep 2018	20h14m47.87s	-24 51' 29.5"	1.3815	0.5040	-1.8	129.3	34.3	-4.28	234.08	34.62	59.7	Cap
15 Sep 2018	20h15m43.63s	-24 44' 52.1"	1.3815	0.5088	-1.7	128.6	34.7	-4.57	234.72	36.32	60.5	Cap
16 Sep 2018	20h16m42.26s	-24 38' 04.3"	1.3814	0.5136	-1.7	127.8	35.1	-4.85	235.34	37.99	61.2	Cap
17 Sep 2018	20h17m43.69s	-24 31' 06.5"	1.3814	0.5185	-1.7	127.1	35.5	-5.12	235.96	39.63	61.8	Cap
18 Sep 2018	20h18m47.86s	-24 23' 58.7"	1.3815	0.5234	-1.7	126.4	35.8	-5.39	236.57	41.24	62.4	Cap
19 Sep 2018	20h19m54.68s	-24 16' 41.1"	1.3815	0.5284	-1.6	125.7	36.2	-5.66	237.17	42.81	62.9	Cap
20 Sep 2018	20h21m04.10s	-24 09' 13.7"	1.3815	0.5334	-1.6	125.0	36.5	-5.92	237.77	44.36	63.4	Cap
21 Sep 2018	20h22m16.04s	-24 01' 36.7"	1.3816	0.5385	-1.6	124.4	36.9	-6.17	238.36	45.87	63.8	Cap
22 Sep 2018	20h23m30.44s	-23 53' 50.1"	1.3817	0.5437	-1.5	123.7	37.2	-6.42	238.94	47.35	64.1	Cap
23 Sep 2018	20h24m47.23s	-23 45' 54.1"	1.3817	0.5489	-1.5	123.0	37.5	-6.67	239.52	48.80	64.5	Cap
24 Sep 2018	20h26m06.33s	-23 37' 48.7"	1.3818	0.5542	-1.5	122.4	37.8	-6.91	240.09	50.22	64.7	Cap
25 Sep 2018	20h27m27.68s	-23 29' 34.0"	1.3820	0.5595	-1.5	121.8	38.1	-7.14	240.66	51.60	65.0	Cap
26 Sep 2018	20h28m51.23s	-23 21' 10.1"	1.3821	0.5649	-1.4	121.1	38.4	-7.37	241.22	52.95	65.3	Cap
27 Sep 2018	20h30m16.89s	-23 12' 37.1"	1.3822	0.5703	-1.4	120.5	38.7	-7.60	241.78	54.27	65.5	Cap
28 Sep 2018	20h31m44.62s	-23 03' 54.9"	1.3824	0.5758	-1.4	119.9	38.9	-7.82	242.33	55.56	65.7	Cap
29 Sep 2018	20h33m14.35s	-22 55' 03.7"	1.3826	0.5813	-1.4	119.3	39.2	-8.03	242.87	56.83	65.8	Cap
30 Sep 2018	20h34m46.03s	-22 46' 03.4"	1.3827	0.5869	-1.3	118.7	39.5	-8.24	243.42	58.07	66.0	Cap
1 Okt 2018	20h36m19.61s	-22 36' 54.2"	1.3830	0.5925	-1.3	118.1	39.7	-8.45	243.95	59.28	66.1	Cap
2 Okt 2018	20h37m55.04s	-22 27' 36.0"	1.3832	0.5982	-1.3	117.5	39.9	-8.65	244.49	60.47	66.3	Cap
3 Okt 2018	20h39m32.26s	-22 18' 08.9"	1.3834	0.6039	-1.3	116.9	40.2	-8.85	245.02	61.63	66.4	Cap
4 Okt 2018	20h41m11.24s	-22 08' 32.9"	1.3836	0.6097	-1.2	116.4	40.4	-9.04	245.55	62.78	66.5	Cap
5 Okt 2018	20h42m51.92s	-21 58' 48.0"	1.3839	0.6155	-1.2	115.8	40.6	-9.23	246.07	63.90	66.6	Cap
6 Okt 2018	20h44m34.27s	-21 48' 54.3"	1.3842	0.6213	-1.2	115.2	40.8	-9.42	246.59	65.00	66.6	Cap
7 Okt 2018	20h46m18.25s	-21 38' 51.7"	1.3845	0.6273	-1.2	114.7	41.0	-9.60	247.11	66.08	66.7	Cap
8 Okt 2018	20h48m03.81s	-21 28' 40.3"	1.3848	0.6332	-1.1	114.2	41.2	-9.77	247.62	67.14	66.8	Cap
9 Okt 2018	20h49m50.91s	-21 18' 20.2"	1.3851	0.6392	-1.1	113.6	41.4	-9.95	248.13	68.18	66.8	Cap
10 Okt 2018	20h51m39.50s	-21 07' 51.3"	1.3854	0.6453	-1.1	113.1	41.5	-10.11	248.64	69.19	66.9	Cap
11 Okt 2018	20h53m29.53s	-20 57' 13.7"	1.3857	0.6514	-1.1	112.6	41.7	-10.28	249.14	70.18	66.9	Cap
12 Okt 2018	20h55m20.97s	-20 46' 27.5"	1.3861	0.6575	-1.1	112.0	41.9	-10.44	249.65	71.14	66.9	Cap
13 Okt 2018	20h57m13.76s	-20 35' 32.6"	1.3865	0.6637	-1.0	111.5	42.0	-10.59	250.15	72.08	67.0	Cap
14 Okt 2018	20h59m07.85s	-20 24' 29.3"	1.3868	0.6699	-1.0	111.0	42.2	-10.74	250.65	73.00	67.0	Cap
15 Okt 2018	21h01m03.20s	-20 13' 17.4"	1.3872	0.6761	-1.0	110.5	42.3	-10.89	251.14	73.89	67.0	Cap
16 Okt 2018	21h02m59.75s	-20 01' 57.2"	1.3877	0.6824	-1.0	110.0	42.5	-11.04	251.64	74.75	67.0	Cap
17 Okt 2018	21h04m57.46s	-19 50' 28.5"	1.3881	0.6888	-0.9	109.5	42.6	-11.18	252.13	75.59	67.0	Cap
18 Okt 2018	21h06m56.29s	-19 38' 51.6"	1.3885	0.6951	-0.9	109.0	42.7	-11.31	252.62	76.40	67.0	Cap
19 Okt 2018	21h08m56.19s	-19 27' 06.5"	1.3890	0.7015	-0.9	108.6	42.8	-11.45	253.11	77.19	67.0	Cap
20 Okt 2018	21h10m57.12s	-19 15' 13.2"	1.3894	0.7080	-0.9	108.1	43.0	-11.58	253.60	77.96	66.9	Cap
21 Okt 2018	21h12m59.04s	-19 03' 11.9"	1.3899	0.7145	-0.8	107.6	43.1	-11.70	254.09	78.71	66.9	Cap
22 Okt 2018	21h15m01.89s	-18 51' 02.6"	1.3904	0.7210	-0.8	107.1	43.2	-11.83	254.58	79.43	66.9	Cap
23 Okt 2018	21h17m05.65s	-18 38' 45.3"	1.3909	0.7275	-0.8	106.7	43.3	-11.95	255.07	80.13	66.8	Cap

EPHEMERIDE 2018 – MARS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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24 Okt 2018	21h19m10.28s	-18 26' 20.2"	1.3914	0.7341	-0.8	106.2	43.4	-12.06	255.55	80.81	66.8	Cap
25 Okt 2018	21h21m15.74s	-18 13' 47.3"	1.3920	0.7407	-0.8	105.7	43.4	-12.18	256.04	81.47	66.8	Cap
26 Okt 2018	21h23m22.00s	-18 01' 06.7"	1.3925	0.7474	-0.7	105.3	43.5	-12.29	256.52	82.12	66.7	Cap
27 Okt 2018	21h25m29.03s	-17 48' 18.5"	1.3931	0.7541	-0.7	104.8	43.6	-12.40	257.00	82.74	66.7	Cap
28 Okt 2018	21h27m36.79s	-17 35' 22.8"	1.3936	0.7608	-0.7	104.4	43.7	-12.50	257.49	83.35	66.6	Cap
29 Okt 2018	21h29m45.26s	-17 22' 19.5"	1.3942	0.7676	-0.7	104.0	43.8	-12.60	257.97	83.95	66.6	Cap
30 Okt 2018	21h31m54.42s	-17 09' 08.9"	1.3948	0.7744	-0.7	103.5	43.8	-12.70	258.45	84.53	66.6	Cap
31 Okt 2018	21h34m04.24s	-16 55' 50.9"	1.3954	0.7812	-0.6	103.1	43.9	-12.80	258.93	85.10	66.5	Cap
1 Nov 2018	21h36m14.71s	-16 42' 25.6"	1.3960	0.7881	-0.6	102.6	43.9	-12.89	259.42	85.66	66.5	Cap
2 Nov 2018	21h38m25.81s	-16 28' 53.1"	1.3967	0.7950	-0.6	102.2	44.0	-12.99	259.90	86.21	66.4	Cap
3 Nov 2018	21h40m37.51s	-16 15' 13.5"	1.3973	0.8020	-0.6	101.8	44.0	-13.07	260.38	86.75	66.4	Cap
4 Nov 2018	21h42m49.81s	-16 01' 26.7"	1.3980	0.8090	-0.5	101.4	44.1	-13.16	260.86	87.28	66.3	Cap
5 Nov 2018	21h45m02.67s	-15 47' 32.9"	1.3986	0.8160	-0.5	100.9	44.1	-13.24	261.34	87.79	66.3	Cap
6 Nov 2018	21h47m16.10s	-15 33' 32.2"	1.3993	0.8230	-0.5	100.5	44.2	-13.33	261.83	88.30	66.2	Cap
7 Nov 2018	21h49m30.05s	-15 19' 24.6"	1.4000	0.8301	-0.5	100.1	44.2	-13.40	262.31	88.79	66.2	Cap
8 Nov 2018	21h51m44.43s	-15 05' 10.3"	1.4007	0.8372	-0.5	99.7	44.2	-13.48	262.79	89.27	66.1	Cap
9 Nov 2018	21h53m59.50s	-14 50' 49.3"	1.4014	0.8444	-0.4	99.3	44.2	-13.55	263.27	89.74	66.0	Cap
10 Nov 2018	21h56m14.94s	-14 36' 21.6"	1.4022	0.8516	-0.4	98.9	44.3	-13.63	263.75	90.19	66.0	Cap
11 Nov 2018	21h58m30.84s	-14 21' 47.6"	1.4029	0.8588	-0.4	98.5	44.3	-13.69	264.24	90.63	65.9	Cap
12 Nov 2018	22h00m47.17s	-14 07' 07.2"	1.4037	0.8660	-0.4	98.1	44.3	-13.76	264.72	91.06	65.9	Aqr
13 Nov 2018	22h03m03.92s	-13 52' 20.5"	1.4044	0.8733	-0.4	97.7	44.3	-13.83	265.20	91.47	65.8	Aqr
14 Nov 2018	22h05m21.06s	-13 37' 27.7"	1.4052	0.8806	-0.3	97.3	44.3	-13.89	265.69	91.87	65.8	Aqr
15 Nov 2018	22h07m38.57s	-13 22' 28.9"	1.4060	0.8879	-0.3	96.9	44.3	-13.95	266.17	92.26	65.7	Aqr
16 Nov 2018	22h09m56.43s	-13 07' 24.3"	1.4068	0.8953	-0.3	96.5	44.3	-14.01	266.65	92.63	65.7	Aqr
17 Nov 2018	22h12m14.63s	-12 52' 13.9"	1.4076	0.9027	-0.3	96.1	44.3	-14.06	267.14	92.99	65.6	Aqr
18 Nov 2018	22h14m33.15s	-12 36' 57.9"	1.4084	0.9101	-0.3	95.7	44.3	-14.12	267.62	93.33	65.6	Aqr
19 Nov 2018	22h16m51.96s	-12 21' 36.4"	1.4092	0.9175	-0.3	95.3	44.3	-14.17	268.11	93.67	65.5	Aqr
20 Nov 2018	22h19m11.06s	-12 06' 09.6"	1.4101	0.9250	-0.2	94.9	44.3	-14.22	268.59	93.99	65.5	Aqr
21 Nov 2018	22h21m31.43s	-11 50' 37.5"	1.4109	0.9325	-0.2	94.5	44.3	-14.27	269.08	94.30	65.4	Aqr
22 Nov 2018	22h23m50.05s	-11 35' 00.4"	1.4118	0.9400	-0.2	94.1	44.3	-14.31	269.57	94.60	65.4	Aqr
23 Nov 2018	22h26m09.91s	-11 19' 18.3"	1.4127	0.9476	-0.2	93.7	44.2	-14.36	270.05	94.89	65.3	Aqr
24 Nov 2018	22h28m30.00s	-11 03' 31.4"	1.4135	0.9552	-0.2	93.4	44.2	-14.40	270.54	95.17	65.3	Aqr
25 Nov 2018	22h30m50.30s	-10 47' 39.8"	1.4144	0.9628	-0.1	93.0	44.2	-14.44	271.03	95.44	65.2	Aqr
26 Nov 2018	22h33m10.82s	-10 31' 43.7"	1.4153	0.9704	-0.1	92.6	44.2	-14.48	271.52	95.70	65.2	Aqr
27 Nov 2018	22h35m31.54s	-10 15' 43.0"	1.4162	0.9781	-0.1	92.2	44.1	-14.52	272.01	95.96	65.1	Aqr
28 Nov 2018	22h37m52.45s	-09 59' 38.1"	1.4172	0.9858	-0.1	91.9	44.1	-14.56	272.50	96.21	65.1	Aqr
29 Nov 2018	22h40m13.57s	-09 43' 28.9"	1.4181	0.9935	-0.1	91.5	44.1	-14.59	272.99	96.46	65.0	Aqr
30 Nov 2018	22h42m34.88s	-09 27' 15.6"	1.4190	1.0012	-0.1	91.1	44.0	-14.62	273.48	96.71	65.0	Aqr
1 Dez 2018	22h44m56.37s	-09 10' 58.2"	1.4200	1.0090	-0.0	90.7	44.0	-14.66	273.97	96.94	65.0	Aqr
2 Dez 2018	22h47m18.06s	-08 54' 36.9"	1.4209	1.0168	-0.0	90.4	43.9	-14.69	274.46	97.18	64.9	Aqr
3 Dez 2018	22h49m39.94s	-08 38' 11.8"	1.4219	1.0246	-0.0	90.0	43.9	-14.71	274.96	97.41	64.9	Aqr
4 Dez 2018	22h52m02.00s	-08 21' 43.0"	1.4229	1.0325	0.0	89.6	43.8	-14.74	275.45	97.63	64.9	Aqr
5 Dez 2018	22h54m24.23s	-08 05' 10.6"	1.4239	1.0404	0.0	89.3	43.8	-14.76	275.94	97.85	64.8	Aqr
6 Dez 2018	22h56m46.65s	-07 48' 34.7"	1.4249	1.0483	0.1	88.9	43.7	-14.79	276.43	98.07	64.8	Aqr
7 Dez 2018	22h59m09.24s	-07 31' 55.5"	1.4259	1.0562	0.1	88.5	43.7	-14.81	276.93	98.27	64.8	Aqr
8 Dez 2018	23h01m31.99s	-07 15' 13.1"	1.4269	1.0642	0.1	88.2	43.6	-14.83	277.42	98.47	64.8	Aqr
9 Dez 2018	23h03m54.91s	-06 58' 27.5"	1.4279	1.0722	0.1	87.8	43.6	-14.85	277.92	98.66	64.7	Aqr
10 Dez 2018	23h06m17.98s	-06 41' 39.1"	1.4290	1.0802	0.1	87.4	43.5	-14.86	278.41	98.85	64.7	Aqr
11 Dez 2018	23h08m41.21s	-06 24' 47.7"	1.4300	1.0882	0.1	87.1	43.5	-14.88	278.90	99.03	64.7	Aqr
12 Dez 2018	23h11m04.58s	-06 07' 53.8"	1.4310	1.0962	0.2	86.7	43.4	-14.89	279.40	99.20	64.7	Aqr
13 Dez 2018	23h13m28.09s	-05 50' 57.3"	1.4321	1.1043	0.2	86.4	43.3	-14.90	279.89	99.36	64.7	Aqr
14 Dez 2018	23h15m51.73s	-05 33' 58.4"	1.4332	1.1124	0.2	86.0	43.3	-14.91	280.39	99.52	64.6	Aqr
15 Dez 2018	23h18m15.50s	-05 16' 57.2"	1.4342	1.1205	0.2	85.6	43.2	-14.92	280.88	99.67	64.6	Aqr
16 Dez 2018	23h20m39.40s	-04 59' 54.0"	1.4353	1.1286	0.2	85.3	43.1	-14.93	281.38	99.81	64.6	Aqr
17 Dez 2018	23h23m03.42s	-04 42' 48.9"	1.4364	1.1367	0.2	84.9	43.0	-14.94	281.87	99.94	64.6	Aqr
18 Dez 2018	23h25m27.55s	-04 25' 41.9"	1.4375	1.1449	0.2	84.6	43.0	-14.94	282.37	100.07	64.6	Aqr
19 Dez 2018	23h27m51.78s	-04 08' 33.3"	1.4386	1.1531	0.3	84.2	42.9	-14.95	282.86	100.19	64.6	Aqr
20 Dez 2018	23h30m16.13s	-03 51' 23.3"	1.4397	1.1613	0.3	83.9	42.8	-14.95	283.36	100.30	64.6	Aqr
21 Dez 2018	23h32m40.58s	-03 34' 11.9"	1.4408	1.1695	0.3	83.5	42.7	-14.95	283.85	100.40	64.6	Aqr
22 Dez 2018	23h35m05.13s	-03 16' 59.3"	1.4419	1.1777	0.3	83.2	42.6	-14.95	284.35	100.51	64.6	Psc
23 Dez 2018	23h37m29.78s	-02 59' 45.6"	1.4431	1.1860	0.3	82.8	42.6	-14.95	284.84	100.60	64.6	Psc
24 Dez 2018	23h39m54.53s	-02 42' 31.1"	1.4442	1.1943	0.3	82.5	42.5	-14.94	285.34	100.69	64.6	Psc
25 Dez 2018	23h42m19.38s	-02 25' 15.8"	1.4453	1.2026	0.4	82.1	42.4	-14.94	285.83	100.78	64.6	Psc
26 Dez 2018	23h44m44.34s	-02 07' 59.8"	1.4465	1.2109	0.4	81.8	42.3	-14.93	286.33	100.87	64.6	Psc
27 Dez 2018	23h47m09.41s	-01 50' 43.3"	1.4476	1.2192	0.4	81.4	42.2	-14.93	286.82	100.96	64.6	Psc
28 Dez 2018	23h49m34.59s	-01 33' 26.4"	1.4488	1.2275	0.4	81.1	42.1	-14.92	287.32	101.04	64.7	Psc
29 Dez 2018	23h51m59.89s	-01 16' 09.2"	1.4500	1.2359	0.4	80.7	42.0	-14.91	287.81	101.13	64.7	Psc
30 Dez 2018	23h54m25.31s	-00 58' 51.7"	1.4511	1.2443	0.4	80.4	41.9	-14.90	288.30	101.21	64.7	Psc
31 Dez 2018	23h56m50.86s	-00 41' 34.2"	1.4523	1.2527	0.4	80.0	41.8	-14.89	288.80	101.29	64.7	Psc
1 Jan 2019	23h59m16.54s	-00 24' 16.7"	1.4535	1.2611	0.5	79.7	41.7	-14.87	289.29	101.37	64.8	Psc