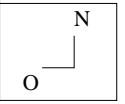
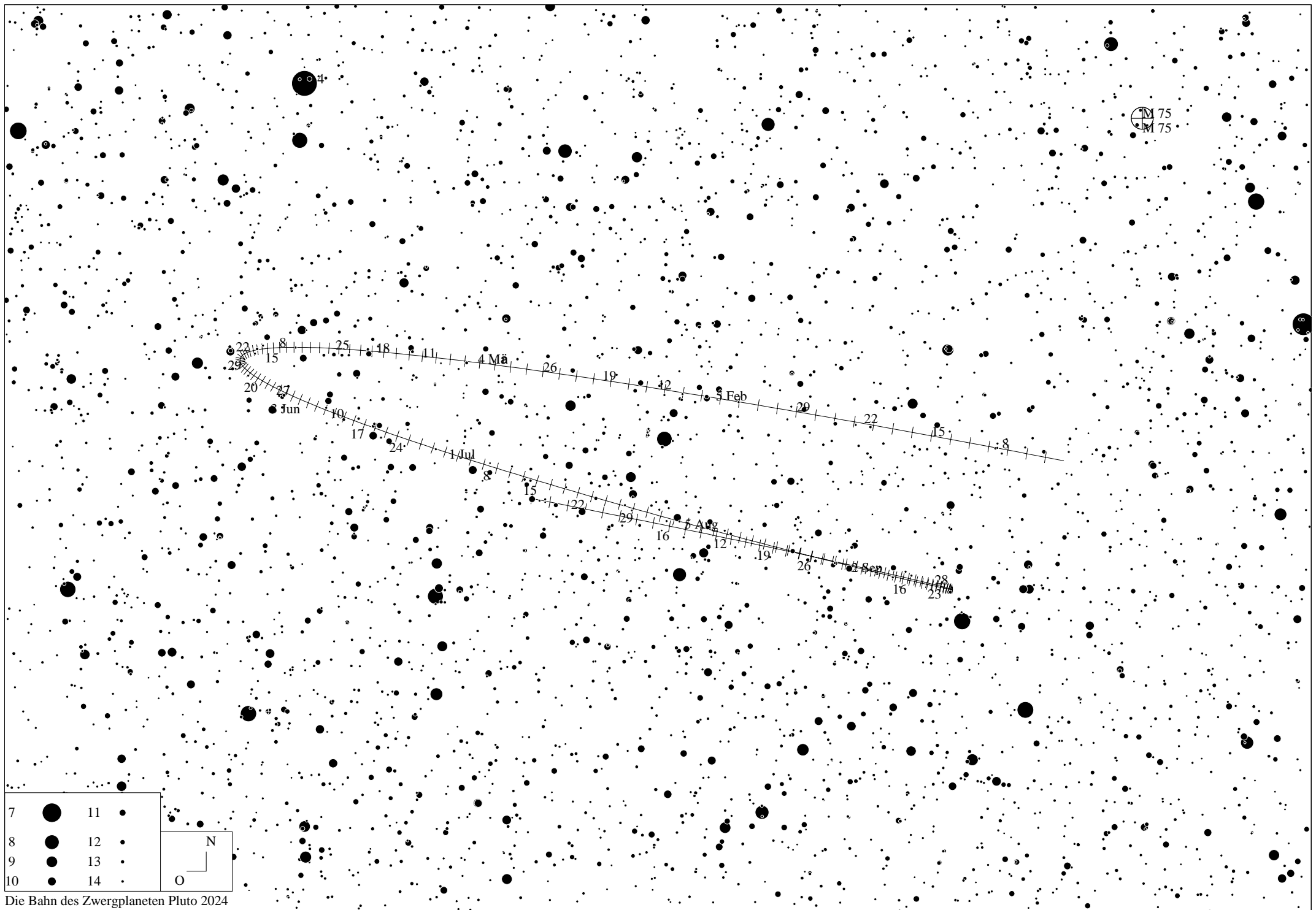


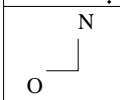
4	●	8	●
5	●	9	●
6	●	10	●
7	●	11	●



Die Bahn des Zwergplaneten Pluto 2024



7		11	
8		12	
9		13	
10		14	



Die Bahn des Zwergplaneten Pluto 2024

EPHEMERIDE 2024 – Pluto

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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1 Jan 2024	20h07m09.09s	-23 03' 26.9"	34.923	35.848	14.7	19.5	0.5	-60.39	344.77	4.69	79.7 Sgr
2 Jan 2024	20h07m17.06s	-23 03' 06.9"	34.923	35.854	14.7	18.5	0.5	-60.53	346.52	4.71	79.8 Sgr
3 Jan 2024	20h07m25.07s	-23 02' 46.7"	34.924	35.860	14.7	17.6	0.5	-60.65	348.29	4.73	79.8 Sgr
4 Jan 2024	20h07m33.11s	-23 02' 26.6"	34.925	35.866	14.7	16.6	0.5	-60.75	350.07	4.75	79.8 Cap
5 Jan 2024	20h07m41.19s	-23 02' 06.4"	34.925	35.871	14.7	15.6	0.4	-60.84	351.86	4.77	79.8 Cap
6 Jan 2024	20h07m49.30s	-23 01' 46.1"	34.926	35.877	14.7	14.6	0.4	-60.91	353.65	4.79	79.9 Cap
7 Jan 2024	20h07m57.44s	-23 01' 25.8"	34.927	35.881	14.7	13.7	0.4	-60.96	355.45	4.81	79.9 Cap
8 Jan 2024	20h08m05.61s	-23 01' 05.5"	34.927	35.886	14.7	12.7	0.4	-60.99	357.26	4.82	79.9 Cap
9 Jan 2024	20h08m13.81s	-23 00' 45.1"	34.928	35.890	14.7	11.7	0.3	-61.00	359.06	4.84	79.9 Cap
10 Jan 2024	20h08m22.02s	-23 00' 24.8"	34.929	35.894	14.7	10.8	0.3	-61.00	0.87	4.85	79.9 Cap
11 Jan 2024	20h08m30.26s	-23 00' 04.4"	34.929	35.898	14.7	9.8	0.3	-60.97	2.68	4.86	80.0 Cap
12 Jan 2024	20h08m38.52s	-22 59' 44.1"	34.930	35.901	14.7	8.9	0.2	-60.93	4.48	4.87	80.0 Cap
13 Jan 2024	20h08m46.80s	-22 59' 23.7"	34.931	35.905	14.7	8.0	0.2	-60.87	6.28	4.88	80.0 Cap
14 Jan 2024	20h08m55.09s	-22 59' 03.3"	34.931	35.907	14.7	7.0	0.2	-60.79	8.07	4.89	80.1 Cap
15 Jan 2024	20h09m03.40s	-22 58' 43.0"	34.932	35.910	14.7	6.2	0.2	-60.69	9.85	4.89	80.1 Cap
16 Jan 2024	20h09m11.71s	-22 58' 22.7"	34.933	35.912	14.7	5.3	0.1	-60.58	11.62	4.90	80.1 Cap
17 Jan 2024	20h09m20.04s	-22 58' 02.4"	34.933	35.914	14.7	4.5	0.1	-60.45	13.38	4.90	80.1 Cap
18 Jan 2024	20h09m28.37s	-22 57' 42.2"	34.934	35.916	14.7	3.8	0.1	-60.30	15.12	4.91	80.2 Cap
19 Jan 2024	20h09m36.71s	-22 57' 22.0"	34.935	35.917	14.7	3.2	0.1	-60.13	16.86	4.91	80.2 Cap
20 Jan 2024	20h09m45.05s	-22 57' 01.8"	34.935	35.918	14.7	2.8	0.1	-59.95	18.57	4.91	80.2 Cap
21 Jan 2024	20h09m53.39s	-22 56' 41.7"	34.936	35.919	14.7	2.8	0.1	-59.75	20.27	4.91	80.3 Cap
22 Jan 2024	20h10m01.73s	-22 56' 21.7"	34.937	35.919	14.7	3.1	0.1	-59.53	21.95	4.91	80.3 Cap
23 Jan 2024	20h10m10.06s	-22 56' 01.7"	34.937	35.920	14.7	3.7	0.1	-59.30	23.61	4.90	80.3 Cap
24 Jan 2024	20h10m18.39s	-22 55' 41.8"	34.938	35.920	14.7	4.4	0.1	-59.05	25.25	4.90	80.3 Cap
25 Jan 2024	20h10m26.72s	-22 55' 22.0"	34.939	35.919	14.7	5.2	0.1	-58.79	26.87	4.89	80.4 Cap
26 Jan 2024	20h10m35.03s	-22 55' 02.3"	34.940	35.918	14.7	6.0	0.2	-58.51	28.47	4.89	80.4 Cap
27 Jan 2024	20h10m43.34s	-22 54' 42.6"	34.940	35.917	14.7	6.9	0.2	-58.22	30.04	4.88	80.5 Cap
28 Jan 2024	20h10m51.63s	-22 54' 23.1"	34.941	35.916	14.7	7.8	0.2	-57.91	31.59	4.87	80.5 Cap
29 Jan 2024	20h10m59.91s	-22 54' 03.7"	34.942	35.915	14.7	8.8	0.2	-57.59	33.12	4.86	80.5 Cap
30 Jan 2024	20h11m08.17s	-22 53' 44.3"	34.942	35.913	14.7	9.7	0.3	-57.26	34.63	4.85	80.6 Cap
31 Jan 2024	20h11m16.42s	-22 53' 25.1"	34.943	35.911	14.7	10.6	0.3	-56.92	36.12	4.84	80.6 Cap
1 Feb 2024	20h11m24.64s	-22 53' 06.0"	34.944	35.908	14.7	11.6	0.3	-56.56	37.58	4.83	80.6 Cap
2 Feb 2024	20h11m32.85s	-22 52' 47.0"	34.944	35.905	14.7	12.5	0.4	-56.19	39.01	4.81	80.7 Cap
3 Feb 2024	20h11m41.03s	-22 52' 28.2"	34.945	35.902	14.7	13.5	0.4	-55.81	40.43	4.80	80.7 Cap
4 Feb 2024	20h11m49.18s	-22 52' 09.5"	34.946	35.899	14.7	14.5	0.4	-55.42	41.82	4.78	80.8 Cap
5 Feb 2024	20h11m57.31s	-22 51' 50.9"	34.946	35.896	14.7	15.4	0.4	-55.02	43.19	4.77	80.8 Cap
6 Feb 2024	20h12m05.40s	-22 51' 32.5"	34.947	35.892	14.7	16.4	0.5	-54.61	44.53	4.75	80.8 Cap
7 Feb 2024	20h12m13.47s	-22 51' 14.2"	34.948	35.888	14.7	17.4	0.5	-54.19	45.86	4.73	80.9 Cap
8 Feb 2024	20h12m21.50s	-22 50' 56.1"	34.948	35.883	14.7	18.3	0.5	-53.76	47.16	4.71	80.9 Cap
9 Feb 2024	20h12m29.50s	-22 50' 38.2"	34.949	35.879	14.7	19.3	0.5	-53.32	48.44	4.68	81.0 Cap
10 Feb 2024	20h12m37.46s	-22 50' 20.4"	34.950	35.874	14.7	20.3	0.6	-52.87	49.69	4.66	81.0 Cap
11 Feb 2024	20h12m45.38s	-22 50' 02.9"	34.950	35.868	14.7	21.2	0.6	-52.41	50.93	4.64	81.1 Cap
12 Feb 2024	20h12m53.26s	-22 49' 45.5"	34.951	35.863	14.7	22.2	0.6	-51.95	52.15	4.61	81.1 Cap
13 Feb 2024	20h13m01.09s	-22 49' 28.3"	34.952	35.857	14.7	23.2	0.6	-51.48	53.34	4.58	81.2 Cap
14 Feb 2024	20h13m08.88s	-22 49' 11.3"	34.952	35.851	14.7	24.2	0.7	-51.00	54.52	4.56	81.2 Cap
15 Feb 2024	20h13m16.62s	-22 48' 54.5"	34.953	35.845	14.7	25.1	0.7	-50.51	55.68	4.53	81.3 Cap
16 Feb 2024	20h13m24.31s	-22 48' 37.9"	34.954	35.838	14.7	26.1	0.7	-50.02	56.82	4.50	81.4 Cap
17 Feb 2024	20h13m31.95s	-22 48' 21.5"	34.954	35.831	14.7	27.1	0.7	-49.52	57.94	4.46	81.4 Cap
18 Feb 2024	20h13m39.54s	-22 48' 05.4"	34.955	35.824	14.7	28.1	0.8	-49.01	59.05	4.43	81.5 Cap
19 Feb 2024	20h13m47.07s	-22 47' 49.5"	34.956	35.817	14.7	29.0	0.8	-48.50	60.13	4.40	81.5 Cap
20 Feb 2024	20h13m54.55s	-22 47' 33.8"	34.956	35.809	14.7	30.0	0.8	-47.99	61.20	4.37	81.6 Cap
21 Feb 2024	20h14m01.97s	-22 47' 18.3"	34.957	35.801	14.7	31.0	0.8	-47.47	62.26	4.33	81.7 Cap
22 Feb 2024	20h14m09.33s	-22 47' 03.1"	34.958	35.793	14.7	32.0	0.9	-46.94	63.30	4.29	81.7 Cap
23 Feb 2024	20h14m16.63s	-22 46' 48.2"	34.958	35.785	14.7	32.9	0.9	-46.41	64.32	4.26	81.8 Cap
24 Feb 2024	20h14m23.87s	-22 46' 33.5"	34.959	35.776	14.7	33.9	0.9	-45.87	65.33	4.22	81.9 Cap
25 Feb 2024	20h14m31.04s	-22 46' 19.0"	34.960	35.767	14.7	34.9	0.9	-45.33	66.33	4.18	82.0 Cap
26 Feb 2024	20h14m38.15s	-22 46' 04.8"	34.960	35.758	14.7	35.9	1.0	-44.78	67.31	4.14	82.0 Cap
27 Feb 2024	20h14m45.19s	-22 45' 50.9"	34.961	35.749	14.7	36.8	1.0	-44.24	68.28	4.10	82.1 Cap
28 Feb 2024	20h14m52.17s	-22 45' 37.2"	34.962	35.739	14.7	37.8	1.0	-43.68	69.23	4.06	82.2 Cap
29 Feb 2024	20h14m59.07s	-22 45' 23.9"	34.962	35.729	14.7	38.8	1.0	-43.13	70.18	4.02	82.3 Cap
1 Mär 2024	20h15m05.90s	-22 45' 10.7"	34.963	35.719	14.7	39.8	1.0	-42.57	71.11	3.97	82.4 Cap
2 Mär 2024	20h15m12.66s	-22 44' 57.9"	34.964	35.709	14.7	40.7	1.1	-42.00	72.03	3.93	82.5 Cap
3 Mär 2024	20h15m19.34s	-22 44' 45.4"	34.965	35.698	14.7	41.7	1.1	-41.44	72.94	3.88	82.6 Cap
4 Mär 2024	20h15m25.95s	-22 44' 33.2"	34.965	35.688	14.7	42.7	1.1	-40.87	73.84	3.84	82.7 Cap
5 Mär 2024	20h15m32.48s	-22 44' 21.2"	34.966	35.677	14.7	43.7	1.1	-40.30	74.72	3.79	82.8 Cap
6 Mär 2024	20h15m38.93s	-22 44' 09.6"	34.967	35.666	14.7	44.6	1.1	-39.72	75.60	3.74	82.9 Cap
7 Mär 2024	20h15m45.30s	-22 43' 58.2"	34.967	35.654	14.7	45.6	1.2	-39.15	76.47	3.69	83.0 Cap
8 Mär 2024	20h15m51.59s	-22 43' 47.2"	34.968	35.643	14.7	46.6	1.2	-38.57	77.33	3.64	83.1 Cap
9 Mär 2024	20h15m57.79s	-22 43' 36.5"	34.969	35.631	14.7	47.6	1.2	-37.99	78.19	3.59	83.2 Cap
10 Mär 2024	20h16m03.91s	-22 43' 26.1"	34.969	35.619	14.7	48.5	1.2	-37.41	79.03	3.54	83.3 Cap
11 Mär 2024	20h16m09.93s	-22 43' 16.1"	34.970	35.607	14.7	49.5	1.2	-36.82	79.87	3.49	83.5 Cap
12 Mär 2024	20h16m15.87s	-22 43' 06.4"	34.971	35.595	14.7	50.5	1.3	-36.24	80.69	3.43	83.6 Cap
13 Mär 2024	20h16m21.72s	-22 42' 57.0"	34.971	35.582	14.7	51.5	1.3	-35.65	81.52	3.38	83.7 Cap
14 Mär 2024	20h16m27.48s	-22 42' 47.9"	34.972	35.569	14.7	52.4	1.3	-35.06	82.33	3.33	83.9 Cap

EPHEMERIDE 2024 – Pluto

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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15 Mär 2024	20h16m33.15s	-22 42' 39.2"	34.973	35.557	14.7	53.4	1.3	-34.47	83.14	3.27	84.0 Cap
16 Mär 2024	20h16m38.72s	-22 42' 30.9"	34.973	35.543	14.7	54.4	1.3	-33.88	83.94	3.21	84.2 Cap
17 Mär 2024	20h16m44.20s	-22 42' 22.9"	34.974	35.530	14.7	55.3	1.3	-33.29	84.73	3.16	84.3 Cap
18 Mär 2024	20h16m49.58s	-22 42' 15.2"	34.975	35.517	14.7	56.3	1.4	-32.69	85.52	3.10	84.5 Cap
19 Mär 2024	20h16m54.86s	-22 42' 07.9"	34.975	35.503	14.7	57.3	1.4	-32.10	86.31	3.04	84.7 Cap
20 Mär 2024	20h17m00.04s	-22 42' 01.0"	34.976	35.490	14.7	58.3	1.4	-31.50	87.09	2.98	84.9 Cap
21 Mär 2024	20h17m05.13s	-22 41' 54.4"	34.977	35.476	14.7	59.2	1.4	-30.91	87.86	2.92	85.1 Cap
22 Mär 2024	20h17m10.11s	-22 41' 48.2"	34.977	35.462	14.7	60.2	1.4	-30.31	88.63	2.86	85.3 Cap
23 Mär 2024	20h17m15.00s	-22 41' 42.3"	34.978	35.448	14.7	61.2	1.4	-29.72	89.39	2.80	85.5 Cap
24 Mär 2024	20h17m19.78s	-22 41' 36.8"	34.979	35.433	14.7	62.1	1.4	-29.12	90.15	2.74	85.7 Cap
25 Mär 2024	20h17m24.46s	-22 41' 31.7"	34.979	35.419	14.7	63.1	1.5	-28.52	90.91	2.68	85.9 Cap
26 Mär 2024	20h17m29.03s	-22 41' 26.9"	34.980	35.404	14.7	64.1	1.5	-27.93	91.66	2.62	86.2 Cap
27 Mär 2024	20h17m33.50s	-22 41' 22.6"	34.981	35.390	14.7	65.1	1.5	-27.33	92.41	2.56	86.4 Cap
28 Mär 2024	20h17m37.87s	-22 41' 18.6"	34.981	35.375	14.7	66.0	1.5	-26.73	93.16	2.49	86.7 Cap
29 Mär 2024	20h17m42.13s	-22 41' 15.0"	34.982	35.360	14.7	67.0	1.5	-26.14	93.90	2.43	87.0 Cap
30 Mär 2024	20h17m46.28s	-22 41' 11.7"	34.983	35.345	14.7	68.0	1.5	-25.54	94.64	2.37	87.3 Cap
31 Mär 2024	20h17m50.32s	-22 41' 08.9"	34.983	35.330	14.7	68.9	1.5	-24.94	95.38	2.30	87.6 Cap
1 Apr 2024	20h17m54.25s	-22 41' 06.4"	34.984	35.315	14.6	69.9	1.5	-24.35	96.11	2.24	88.0 Cap
2 Apr 2024	20h17m58.07s	-22 41' 04.3"	34.985	35.299	14.6	70.9	1.5	-23.75	96.85	2.17	88.3 Cap
3 Apr 2024	20h18m01.79s	-22 41' 02.6"	34.986	35.284	14.6	71.9	1.6	-23.16	97.58	2.11	88.7 Cap
4 Apr 2024	20h18m05.38s	-22 41' 01.3"	34.986	35.268	14.6	72.8	1.6	-22.57	98.31	2.04	89.2 Cap
5 Apr 2024	20h18m08.87s	-22 41' 00.4"	34.987	35.253	14.6	73.8	1.6	-21.98	99.03	1.98	89.6 Cap
6 Apr 2024	20h18m12.24s	-22 40' 59.9"	34.988	35.237	14.6	74.8	1.6	-21.38	99.76	1.91	90.1 Cap
7 Apr 2024	20h18m15.50s	-22 40' 59.8"	34.988	35.221	14.6	75.7	1.6	-20.79	100.48	1.84	90.6 Cap
8 Apr 2024	20h18m18.64s	-22 41' 00.1"	34.989	35.205	14.6	76.7	1.6	-20.21	101.21	1.78	91.2 Cap
9 Apr 2024	20h18m21.67s	-22 41' 00.7"	34.990	35.190	14.6	77.7	1.6	-19.62	101.93	1.71	91.8 Cap
10 Apr 2024	20h18m24.58s	-22 41' 01.8"	34.990	35.174	14.6	78.7	1.6	-19.03	102.65	1.64	92.4 Cap
11 Apr 2024	20h18m27.37s	-22 41' 03.3"	34.991	35.158	14.6	79.6	1.6	-18.45	103.37	1.57	93.1 Cap
12 Apr 2024	20h18m30.05s	-22 41' 05.2"	34.992	35.141	14.6	80.6	1.6	-17.86	104.09	1.51	93.9 Cap
13 Apr 2024	20h18m32.61s	-22 41' 07.5"	34.992	35.125	14.6	81.6	1.6	-17.28	104.82	1.44	94.8 Cap
14 Apr 2024	20h18m35.05s	-22 41' 10.2"	34.993	35.109	14.6	82.5	1.6	-16.70	105.54	1.37	95.7 Cap
15 Apr 2024	20h18m37.37s	-22 41' 13.2"	34.994	35.093	14.6	83.5	1.6	-16.12	106.26	1.30	96.7 Cap
16 Apr 2024	20h18m39.57s	-22 41' 16.7"	34.994	35.077	14.6	84.5	1.6	-15.55	106.98	1.24	97.9 Cap
17 Apr 2024	20h18m41.65s	-22 41' 20.6"	34.995	35.060	14.6	85.4	1.6	-14.97	107.70	1.17	99.1 Cap
18 Apr 2024	20h18m43.61s	-22 41' 24.9"	34.996	35.044	14.6	86.4	1.6	-14.40	108.42	1.11	100.5 Cap
19 Apr 2024	20h18m45.46s	-22 41' 29.6"	34.996	35.028	14.6	87.4	1.6	-13.83	109.14	1.04	102.1 Cap
20 Apr 2024	20h18m47.18s	-22 41' 34.7"	34.997	35.012	14.6	88.3	1.6	-13.26	109.86	0.98	103.9 Cap
21 Apr 2024	20h18m48.79s	-22 41' 40.2"	34.998	34.995	14.6	89.3	1.6	-12.70	110.59	0.91	106.0 Cap
22 Apr 2024	20h18m50.28s	-22 41' 46.0"	34.998	34.979	14.6	90.3	1.6	-12.14	111.31	0.85	108.3 Cap
23 Apr 2024	20h18m51.64s	-22 41' 52.3"	34.999	34.963	14.6	91.3	1.6	-11.58	112.04	0.79	111.0 Cap
24 Apr 2024	20h18m52.89s	-22 41' 59.0"	35.000	34.946	14.6	92.2	1.6	-11.02	112.76	0.73	114.2 Cap
25 Apr 2024	20h18m54.02s	-22 42' 06.0"	35.000	34.930	14.6	93.2	1.6	-10.46	113.49	0.68	117.8 Cap
26 Apr 2024	20h18m55.02s	-22 42' 13.5"	35.001	34.914	14.6	94.2	1.6	-9.91	114.22	0.63	122.1 Cap
27 Apr 2024	20h18m55.91s	-22 42' 21.3"	35.002	34.897	14.6	95.1	1.6	-9.36	114.95	0.58	127.2 Cap
28 Apr 2024	20h18m56.68s	-22 42' 29.5"	35.002	34.881	14.6	96.1	1.6	-8.82	115.69	0.53	133.1 Cap
29 Apr 2024	20h18m57.33s	-22 42' 38.1"	35.003	34.865	14.6	97.1	1.6	-8.28	116.42	0.50	139.9 Cap
30 Apr 2024	20h18m57.86s	-22 42' 47.1"	35.004	34.849	14.6	98.0	1.6	-7.74	117.16	0.47	147.7 Cap
1 Mai 2024	20h18m58.26s	-22 42' 56.5"	35.004	34.833	14.6	99.0	1.6	-7.20	117.90	0.45	156.3 Cap
2 Mai 2024	20h18m58.55s	-22 43' 06.2"	35.005	34.817	14.6	100.0	1.6	-6.67	118.64	0.44	165.4 Cap
3 Mai 2024	20h18m58.72s	-22 43' 16.4"	35.006	34.800	14.6	100.9	1.6	-6.14	119.39	0.45	174.6 Cap
4 Mai 2024	20h18m58.77s	-22 43' 26.9"	35.006	34.785	14.6	101.9	1.6	-5.61	120.13	0.46	183.5 Cap
5 Mai 2024	20h18m58.70s	-22 43' 37.8"	35.007	34.769	14.6	102.9	1.6	-5.09	120.88	0.49	191.6 Cap
6 Mai 2024	20h18m58.51s	-22 43' 49.1"	35.008	34.753	14.6	103.8	1.6	-4.58	121.63	0.52	198.8 Cap
7 Mai 2024	20h18m58.19s	-22 44' 00.7"	35.009	34.737	14.6	104.8	1.6	-4.06	122.39	0.56	205.0 Cap
8 Mai 2024	20h18m57.77s	-22 44' 12.7"	35.009	34.721	14.6	105.8	1.6	-3.55	123.14	0.60	210.3 Cap
9 Mai 2024	20h18m57.22s	-22 44' 25.1"	35.010	34.706	14.6	106.8	1.6	-3.05	123.91	0.65	214.9 Cap
10 Mai 2024	20h18m56.55s	-22 44' 37.8"	35.011	34.690	14.6	107.7	1.6	-2.55	124.67	0.71	218.7 Cap
11 Mai 2024	20h18m55.77s	-22 44' 50.9"	35.011	34.674	14.6	108.7	1.6	-2.05	125.44	0.76	222.0 Cap
12 Mai 2024	20h18m54.87s	-22 45' 04.3"	35.012	34.659	14.6	109.7	1.6	-1.56	126.20	0.82	224.9 Cap
13 Mai 2024	20h18m53.85s	-22 45' 18.1"	35.013	34.644	14.6	110.6	1.5	-1.07	126.98	0.88	227.3 Cap
14 Mai 2024	20h18m52.72s	-22 45' 32.3"	35.013	34.629	14.6	111.6	1.5	-0.59	127.75	0.94	229.4 Cap
15 Mai 2024	20h18m51.48s	-22 45' 46.8"	35.014	34.614	14.6	112.6	1.5	-0.12	128.53	1.00	231.3 Cap
16 Mai 2024	20h18m50.12s	-22 46' 01.6"	35.015	34.599	14.6	113.5	1.5	0.36	129.32	1.06	233.0 Cap
17 Mai 2024	20h18m48.64s	-22 46' 16.8"	35.015	34.584	14.6	114.5	1.5	0.82	130.10	1.12	234.4 Cap
18 Mai 2024	20h18m47.06s	-22 46' 32.3"	35.016	34.569	14.6	115.5	1.5	1.29	130.90	1.18	235.7 Cap
19 Mai 2024	20h18m45.36s	-22 46' 48.1"	35.017	34.554	14.6	116.4	1.5	1.74	131.69	1.24	236.9 Cap
20 Mai 2024	20h18m43.56s	-22 47' 04.2"	35.017	34.540	14.6	117.4	1.5	2.19	132.49	1.30	237.9 Cap
21 Mai 2024	20h18m41.64s	-22 47' 20.7"	35.018	34.526	14.6	118.4	1.5	2.64	133.29	1.36	238.9 Cap
22 Mai 2024	20h18m39.62s	-22 47' 37.4"	35.019	34.511	14.6	119.3	1.4	3.08	134.10	1.42	239.8 Cap
23 Mai 2024	20h18m37.48s	-22 47' 54.5"	35.019	34.497	14.6	120.3	1.4	3.51	134.91	1.48	240.6 Cap
24 Mai 2024	20h18m35.24s	-22 48' 11.9"	35.020	34.484	14.6	121.3	1.4	3.94	135.72	1.54	241.3 Cap
25 Mai 2024	20h18m32.90s	-22 48' 29.5"	35.021	34.470	14.6	122.3	1.4	4.36	136.54	1.60	242.0 Cap
26 Mai 2024	20h18m30.45s	-22 48' 47.5"	35.021	34.456	14.6	123.2	1.4	4.77	137.36	1.66	242.6 Cap
27 Mai 2024	20h18m27.89s	-22 49' 05.7"	35.022	34.443	14.6	124.2	1.4	5.18	138.19	1.72	243.2 Cap

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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28 Mai 2024	20h18m25.23s	-22 49' 24.3"	35.023	34.429	14.6	125.2	1.4	5.58	139.02	1.78	243.7 Cap
29 Mai 2024	20h18m22.47s	-22 49' 43.1"	35.023	34.416	14.6	126.1	1.3	5.98	139.85	1.84	244.2 Cap
30 Mai 2024	20h18m19.61s	-22 50' 02.2"	35.024	34.403	14.6	127.1	1.3	6.36	140.69	1.89	244.7 Cap
31 Mai 2024	20h18m16.64s	-22 50' 21.5"	35.025	34.391	14.6	128.1	1.3	6.75	141.53	1.95	245.1 Cap
1 Jun 2024	20h18m13.58s	-22 50' 41.1"	35.025	34.378	14.6	129.0	1.3	7.12	142.38	2.01	245.5 Cap
2 Jun 2024	20h18m10.42s	-22 51' 01.0"	35.026	34.366	14.6	130.0	1.3	7.49	143.23	2.06	245.9 Cap
3 Jun 2024	20h18m07.16s	-22 51' 21.1"	35.027	34.353	14.6	131.0	1.3	7.85	144.09	2.12	246.3 Cap
4 Jun 2024	20h18m03.81s	-22 51' 41.5"	35.028	34.341	14.6	131.9	1.2	8.20	144.95	2.17	246.6 Cap
5 Jun 2024	20h18m00.35s	-22 52' 02.1"	35.028	34.330	14.6	132.9	1.2	8.54	145.81	2.23	247.0 Cap
6 Jun 2024	20h17m56.81s	-22 52' 22.9"	35.029	34.318	14.6	133.9	1.2	8.88	146.68	2.28	247.3 Cap
7 Jun 2024	20h17m53.18s	-22 52' 44.0"	35.030	34.306	14.6	134.8	1.2	9.21	147.55	2.33	247.6 Cap
8 Jun 2024	20h17m49.45s	-22 53' 05.3"	35.030	34.295	14.6	135.8	1.2	9.53	148.43	2.39	247.9 Cap
9 Jun 2024	20h17m45.63s	-22 53' 26.8"	35.031	34.284	14.6	136.8	1.1	9.85	149.31	2.44	248.1 Cap
10 Jun 2024	20h17m41.73s	-22 53' 48.5"	35.032	34.273	14.6	137.8	1.1	10.15	150.20	2.49	248.4 Cap
11 Jun 2024	20h17m37.74s	-22 54' 10.4"	35.032	34.263	14.6	138.7	1.1	10.45	151.08	2.53	248.6 Cap
12 Jun 2024	20h17m33.67s	-22 54' 32.5"	35.033	34.252	14.6	139.7	1.1	10.74	151.98	2.58	248.9 Cap
13 Jun 2024	20h17m29.52s	-22 54' 54.8"	35.034	34.242	14.6	140.7	1.1	11.02	152.87	2.63	249.1 Cap
14 Jun 2024	20h17m25.28s	-22 55' 17.3"	35.034	34.232	14.6	141.6	1.0	11.29	153.77	2.67	249.3 Cap
15 Jun 2024	20h17m20.97s	-22 55' 39.9"	35.035	34.223	14.6	142.6	1.0	11.55	154.68	2.72	249.5 Cap
16 Jun 2024	20h17m16.57s	-22 56' 02.7"	35.036	34.213	14.6	143.6	1.0	11.81	155.59	2.76	249.7 Cap
17 Jun 2024	20h17m12.11s	-22 56' 25.7"	35.036	34.204	14.6	144.5	1.0	12.05	156.50	2.80	249.9 Cap
18 Jun 2024	20h17m07.57s	-22 56' 48.8"	35.037	34.195	14.6	145.5	0.9	12.29	157.42	2.85	250.1 Cap
19 Jun 2024	20h17m02.95s	-22 57' 12.1"	35.038	34.186	14.6	146.5	0.9	12.52	158.33	2.89	250.2 Cap
20 Jun 2024	20h16m58.27s	-22 57' 35.5"	35.038	34.178	14.6	147.4	0.9	12.73	159.26	2.93	250.4 Cap
21 Jun 2024	20h16m53.51s	-22 57' 59.0"	35.039	34.169	14.6	148.4	0.9	12.94	160.18	2.97	250.6 Cap
22 Jun 2024	20h16m48.69s	-22 58' 22.7"	35.040	34.161	14.6	149.4	0.8	13.14	161.11	3.00	250.7 Cap
23 Jun 2024	20h16m43.81s	-22 58' 46.4"	35.040	34.154	14.6	150.3	0.8	13.33	162.04	3.04	250.9 Cap
24 Jun 2024	20h16m38.86s	-22 59' 10.3"	35.041	34.146	14.6	151.3	0.8	13.51	162.98	3.08	251.0 Cap
25 Jun 2024	20h16m33.84s	-22 59' 34.3"	35.042	34.139	14.6	152.3	0.8	13.68	163.92	3.11	251.2 Cap
26 Jun 2024	20h16m28.77s	-22 59' 58.4"	35.042	34.132	14.6	153.2	0.7	13.84	164.86	3.14	251.3 Cap
27 Jun 2024	20h16m23.64s	-23 00' 22.5"	35.043	34.125	14.6	154.2	0.7	13.99	165.80	3.18	251.4 Cap
28 Jun 2024	20h16m18.45s	-23 00' 46.8"	35.044	34.119	14.6	155.2	0.7	14.13	166.74	3.21	251.6 Cap
29 Jun 2024	20h16m13.20s	-23 01' 11.1"	35.044	34.112	14.6	156.1	0.7	14.26	167.69	3.24	251.7 Cap
30 Jun 2024	20h16m07.91s	-23 01' 35.5"	35.045	34.106	14.6	157.1	0.6	14.38	168.64	3.27	251.8 Cap
1 Jul 2024	20h16m02.56s	-23 02' 00.0"	35.046	34.101	14.6	158.1	0.6	14.49	169.59	3.30	252.0 Cap
2 Jul 2024	20h15m57.16s	-23 02' 24.5"	35.046	34.095	14.6	159.0	0.6	14.59	170.55	3.32	252.1 Cap
3 Jul 2024	20h15m51.71s	-23 02' 49.1"	35.047	34.090	14.6	160.0	0.6	14.69	171.50	3.35	252.2 Cap
4 Jul 2024	20h15m46.21s	-23 03' 13.7"	35.048	34.085	14.6	161.0	0.5	14.77	172.46	3.37	252.3 Cap
5 Jul 2024	20h15m40.68s	-23 03' 38.3"	35.049	34.081	14.6	161.9	0.5	14.83	173.41	3.40	252.4 Cap
6 Jul 2024	20h15m35.10s	-23 04' 02.9"	35.049	34.076	14.6	162.9	0.5	14.89	174.37	3.42	252.5 Cap
7 Jul 2024	20h15m29.48s	-23 04' 27.6"	35.050	34.072	14.6	163.8	0.5	14.94	175.33	3.44	252.6 Cap
8 Jul 2024	20h15m23.83s	-23 04' 52.3"	35.051	34.068	14.6	164.8	0.4	14.98	176.29	3.46	252.7 Cap
9 Jul 2024	20h15m18.14s	-23 05' 17.0"	35.051	34.065	14.6	165.7	0.4	15.01	177.26	3.48	252.8 Cap
10 Jul 2024	20h15m12.42s	-23 05' 41.7"	35.052	34.062	14.6	166.7	0.4	15.03	178.22	3.49	252.9 Cap
11 Jul 2024	20h15m06.67s	-23 06' 06.3"	35.053	34.059	14.6	167.6	0.4	15.03	179.18	3.51	253.0 Cap
12 Jul 2024	20h15m00.89s	-23 06' 30.9"	35.053	34.056	14.6	168.6	0.3	15.03	180.14	3.52	253.1 Cap
13 Jul 2024	20h14m55.09s	-23 06' 55.5"	35.054	34.054	14.6	169.5	0.3	15.02	181.10	3.54	253.2 Cap
14 Jul 2024	20h14m49.26s	-23 07' 20.1"	35.055	34.052	14.6	170.4	0.3	14.99	182.07	3.55	253.3 Cap
15 Jul 2024	20h14m43.41s	-23 07' 44.6"	35.055	34.050	14.6	171.3	0.2	14.96	183.03	3.56	253.4 Cap
16 Jul 2024	20h14m37.54s	-23 08' 09.1"	35.056	34.049	14.6	172.2	0.2	14.91	183.99	3.57	253.5 Cap
17 Jul 2024	20h14m31.65s	-23 08' 33.5"	35.057	34.047	14.6	173.1	0.2	14.86	184.95	3.57	253.6 Cap
18 Jul 2024	20h14m25.75s	-23 08' 57.8"	35.057	34.047	14.6	174.0	0.2	14.79	185.91	3.58	253.6 Cap
19 Jul 2024	20h14m19.84s	-23 09' 22.1"	35.058	34.046	14.6	174.8	0.2	14.72	186.86	3.59	253.7 Cap
20 Jul 2024	20h14m13.91s	-23 09' 46.3"	35.059	34.046	14.6	175.5	0.1	14.63	187.82	3.59	253.8 Cap
21 Jul 2024	20h14m07.98s	-23 10' 10.3"	35.059	34.046	14.6	176.1	0.1	14.53	188.78	3.59	253.9 Cap
22 Jul 2024	20h14m02.04s	-23 10' 34.3"	35.060	34.046	14.6	176.6	0.1	14.43	189.73	3.59	254.0 Cap
23 Jul 2024	20h13m56.10s	-23 10' 58.2"	35.061	34.046	14.6	176.8	0.1	14.31	190.68	3.59	254.0 Cap
24 Jul 2024	20h13m50.15s	-23 11' 22.0"	35.061	34.047	14.6	176.7	0.1	14.18	191.63	3.59	254.1 Cap
25 Jul 2024	20h13m44.20s	-23 11' 45.7"	35.062	34.048	14.6	176.3	0.1	14.05	192.58	3.59	254.2 Cap
26 Jul 2024	20h13m38.26s	-23 12' 09.2"	35.063	34.050	14.6	175.8	0.1	13.90	193.52	3.59	254.3 Cap
27 Jul 2024	20h13m32.31s	-23 12' 32.6"	35.063	34.052	14.6	175.1	0.1	13.74	194.47	3.58	254.4 Cap
28 Jul 2024	20h13m26.38s	-23 12' 55.9"	35.064	34.054	14.6	174.3	0.2	13.57	195.41	3.58	254.4 Cap
29 Jul 2024	20h13m20.45s	-23 13' 19.1"	35.065	34.056	14.6	173.5	0.2	13.40	196.35	3.57	254.5 Cap
30 Jul 2024	20h13m14.53s	-23 13' 42.1"	35.065	34.058	14.6	172.6	0.2	13.21	197.28	3.56	254.6 Cap
31 Jul 2024	20h13m08.62s	-23 14' 04.9"	35.066	34.061	14.6	171.7	0.2	13.02	198.21	3.55	254.6 Cap
1 Aug 2024	20h13m02.73s	-23 14' 27.6"	35.067	34.064	14.6	170.8	0.3	12.81	199.14	3.54	254.7 Cap
2 Aug 2024	20h12m56.86s	-23 14' 50.1"	35.068	34.068	14.6	169.9	0.3	12.59	200.07	3.53	254.8 Cap
3 Aug 2024	20h12m51.00s	-23 15' 12.4"	35.068	34.072	14.6	169.0	0.3	12.37	200.99	3.51	254.8 Cap
4 Aug 2024	20h12m45.17s	-23 15' 34.6"	35.069	34.076	14.6	168.0	0.3	12.14	201.91	3.50	254.9 Cap
5 Aug 2024	20h12m39.36s	-23 15' 56.6"	35.070	34.080	14.6	167.1	0.4	11.89	202.83	3.48	255.0 Cap
6 Aug 2024	20h12m33.57s	-23 16' 18.3"	35.070	34.085	14.6	166.1	0.4	11.64	203.74	3.46	255.0 Cap
7 Aug 2024	20h12m27.82s	-23 16' 39.9"	35.071	34.090	14.6	165.2	0.4	11.38	204.65	3.44	255.1 Cap
8 Aug 2024	20h12m22.10s	-23 17' 01.3"	35.072	34.095	14.6	164.2	0.5	11.11	205.55	3.42	255.2 Cap
9 Aug 2024	20h12m16.41s	-23 17' 22.4"	35.072	34.100	14.6	163.2	0.5	10.83	206.45	3.40	255.2 Cap

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10 Aug 2024	20h12m10.75s	-23 17' 43.4"	35.073	34.106	14.6	162.3	0.5	10.55	207.35	3.38	255.3 Cap
11 Aug 2024	20h12m05.13s	-23 18' 04.1"	35.074	34.112	14.6	161.3	0.5	10.25	208.24	3.35	255.4 Cap
12 Aug 2024	20h11m59.56s	-23 18' 24.5"	35.074	34.118	14.6	160.4	0.6	9.95	209.13	3.33	255.4 Cap
13 Aug 2024	20h11m54.02s	-23 18' 44.7"	35.075	34.125	14.6	159.4	0.6	9.63	210.02	3.30	255.5 Cap
14 Aug 2024	20h11m48.53s	-23 19' 04.7"	35.076	34.132	14.6	158.4	0.6	9.31	210.90	3.27	255.6 Cap
15 Aug 2024	20h11m43.08s	-23 19' 24.5"	35.076	34.139	14.6	157.4	0.6	8.98	211.78	3.24	255.6 Cap
16 Aug 2024	20h11m37.68s	-23 19' 43.9"	35.077	34.146	14.6	156.5	0.7	8.65	212.65	3.21	255.7 Cap
17 Aug 2024	20h11m32.33s	-23 20' 03.2"	35.078	34.154	14.6	155.5	0.7	8.30	213.52	3.18	255.7 Cap
18 Aug 2024	20h11m27.04s	-23 20' 22.1"	35.078	34.162	14.6	154.5	0.7	7.95	214.39	3.15	255.8 Cap
19 Aug 2024	20h11m21.79s	-23 20' 40.8"	35.079	34.170	14.6	153.6	0.7	7.59	215.25	3.12	255.9 Cap
20 Aug 2024	20h11m16.61s	-23 20' 59.2"	35.080	34.179	14.6	152.6	0.8	7.23	216.10	3.08	255.9 Cap
21 Aug 2024	20h11m11.47s	-23 21' 17.4"	35.080	34.187	14.6	151.6	0.8	6.85	216.96	3.05	256.0 Cap
22 Aug 2024	20h11m06.40s	-23 21' 35.2"	35.081	34.196	14.6	150.6	0.8	6.47	217.80	3.01	256.0 Cap
23 Aug 2024	20h11m01.39s	-23 21' 52.8"	35.082	34.205	14.6	149.6	0.8	6.08	218.65	2.97	256.1 Cap
24 Aug 2024	20h10m56.44s	-23 22' 10.1"	35.082	34.215	14.6	148.7	0.9	5.69	219.49	2.93	256.2 Cap
25 Aug 2024	20h10m51.55s	-23 22' 27.1"	35.083	34.225	14.6	147.7	0.9	5.28	220.32	2.89	256.2 Cap
26 Aug 2024	20h10m46.74s	-23 22' 43.8"	35.084	34.235	14.6	146.7	0.9	4.88	221.15	2.85	256.3 Cap
27 Aug 2024	20h10m41.99s	-23 23' 00.1"	35.085	34.245	14.6	145.7	0.9	4.46	221.98	2.81	256.3 Cap
28 Aug 2024	20h10m37.30s	-23 23' 16.2"	35.085	34.255	14.6	144.8	1.0	4.04	222.81	2.76	256.4 Cap
29 Aug 2024	20h10m32.70s	-23 23' 32.0"	35.086	34.266	14.6	143.8	1.0	3.61	223.62	2.72	256.5 Cap
30 Aug 2024	20h10m28.16s	-23 23' 47.4"	35.087	34.277	14.6	142.8	1.0	3.18	224.44	2.67	256.5 Cap
31 Aug 2024	20h10m23.70s	-23 24' 02.6"	35.087	34.288	14.6	141.8	1.0	2.74	225.25	2.63	256.6 Cap
1 Sep 2024	20h10m19.32s	-23 24' 17.4"	35.088	34.300	14.6	140.8	1.0	2.29	226.06	2.58	256.6 Cap
2 Sep 2024	20h10m15.02s	-23 24' 31.8"	35.089	34.311	14.6	139.9	1.1	1.84	226.86	2.53	256.7 Cap
3 Sep 2024	20h10m10.80s	-23 24' 46.0"	35.089	34.323	14.6	138.9	1.1	1.38	227.66	2.48	256.8 Cap
4 Sep 2024	20h10m06.67s	-23 24' 59.8"	35.090	34.335	14.6	137.9	1.1	0.92	228.46	2.43	256.8 Cap
5 Sep 2024	20h10m02.62s	-23 25' 13.3"	35.091	34.348	14.6	136.9	1.1	0.45	229.25	2.38	256.9 Cap
6 Sep 2024	20h09m58.65s	-23 25' 26.4"	35.091	34.360	14.6	135.9	1.1	-0.03	230.04	2.33	257.0 Cap
7 Sep 2024	20h09m54.78s	-23 25' 39.2"	35.092	34.373	14.6	134.9	1.2	-0.51	230.82	2.27	257.0 Cap
8 Sep 2024	20h09m50.99s	-23 25' 51.6"	35.093	34.386	14.6	134.0	1.2	-0.99	231.60	2.22	257.1 Cap
9 Sep 2024	20h09m47.30s	-23 26' 03.7"	35.093	34.399	14.6	133.0	1.2	-1.48	232.38	2.16	257.2 Cap
10 Sep 2024	20h09m43.69s	-23 26' 15.4"	35.094	34.412	14.6	132.0	1.2	-1.97	233.16	2.10	257.2 Cap
11 Sep 2024	20h09m40.19s	-23 26' 26.7"	35.095	34.426	14.6	131.0	1.2	-2.47	233.93	2.05	257.3 Cap
12 Sep 2024	20h09m36.78s	-23 26' 37.7"	35.095	34.440	14.6	130.0	1.3	-2.97	234.70	1.99	257.4 Cap
13 Sep 2024	20h09m33.46s	-23 26' 48.3"	35.096	34.453	14.6	129.0	1.3	-3.48	235.46	1.93	257.5 Cap
14 Sep 2024	20h09m30.24s	-23 26' 58.6"	35.097	34.468	14.6	128.1	1.3	-3.99	236.23	1.87	257.5 Cap
15 Sep 2024	20h09m27.13s	-23 27' 08.5"	35.097	34.482	14.6	127.1	1.3	-4.51	236.98	1.81	257.6 Cap
16 Sep 2024	20h09m24.11s	-23 27' 18.0"	35.098	34.496	14.6	126.1	1.3	-5.03	237.74	1.75	257.7 Cap
17 Sep 2024	20h09m21.19s	-23 27' 27.2"	35.099	34.511	14.6	125.1	1.3	-5.56	238.50	1.69	257.8 Cap
18 Sep 2024	20h09m18.38s	-23 27' 36.0"	35.099	34.526	14.6	124.1	1.4	-6.08	239.25	1.63	257.9 Cap
19 Sep 2024	20h09m15.67s	-23 27' 44.4"	35.100	34.541	14.6	123.1	1.4	-6.62	240.00	1.57	258.0 Cap
20 Sep 2024	20h09m13.07s	-23 27' 52.5"	35.101	34.556	14.6	122.2	1.4	-7.15	240.74	1.50	258.0 Cap
21 Sep 2024	20h09m10.57s	-23 28' 00.1"	35.102	34.571	14.6	121.2	1.4	-7.69	241.49	1.44	258.2 Cap
22 Sep 2024	20h09m08.17s	-23 28' 07.4"	35.102	34.587	14.6	120.2	1.4	-8.23	242.23	1.38	258.3 Cap
23 Sep 2024	20h09m05.89s	-23 28' 14.4"	35.103	34.602	14.6	119.2	1.4	-8.78	242.97	1.31	258.4 Cap
24 Sep 2024	20h09m03.71s	-23 28' 20.9"	35.104	34.618	14.6	118.2	1.4	-9.33	243.71	1.24	258.5 Cap
25 Sep 2024	20h09m01.65s	-23 28' 27.1"	35.104	34.634	14.6	117.2	1.5	-9.88	244.44	1.18	258.6 Cap
26 Sep 2024	20h08m59.70s	-23 28' 32.8"	35.105	34.650	14.6	116.2	1.5	-10.44	245.18	1.11	258.8 Cap
27 Sep 2024	20h08m57.86s	-23 28' 38.2"	35.106	34.666	14.6	115.3	1.5	-11.00	245.91	1.04	258.9 Cap
28 Sep 2024	20h08m56.13s	-23 28' 43.3"	35.106	34.682	14.6	114.3	1.5	-11.56	246.64	0.98	259.1 Cap
29 Sep 2024	20h08m54.51s	-23 28' 47.9"	35.107	34.699	14.6	113.3	1.5	-12.12	247.37	0.91	259.3 Cap
30 Sep 2024	20h08m53.02s	-23 28' 52.1"	35.108	34.715	14.6	112.3	1.5	-12.69	248.10	0.84	259.6 Cap
1 Okt 2024	20h08m51.64s	-23 28' 56.0"	35.108	34.732	14.6	111.3	1.5	-13.26	248.83	0.77	259.8 Cap
2 Okt 2024	20h08m50.37s	-23 28' 59.4"	35.109	34.749	14.6	110.3	1.5	-13.83	249.56	0.70	260.1 Cap
3 Okt 2024	20h08m49.23s	-23 29' 02.5"	35.110	34.766	14.6	109.3	1.5	-14.40	250.28	0.63	260.5 Cap
4 Okt 2024	20h08m48.20s	-23 29' 05.2"	35.110	34.782	14.6	108.4	1.5	-14.98	251.01	0.56	261.0 Cap
5 Okt 2024	20h08m47.29s	-23 29' 07.5"	35.111	34.799	14.6	107.4	1.6	-15.56	251.74	0.49	261.6 Cap
6 Okt 2024	20h08m46.50s	-23 29' 09.4"	35.112	34.817	14.6	106.4	1.6	-16.14	252.46	0.42	262.4 Cap
7 Okt 2024	20h08m45.83s	-23 29' 10.9"	35.112	34.834	14.6	105.4	1.6	-16.72	253.19	0.35	263.5 Cap
8 Okt 2024	20h08m45.29s	-23 29' 12.1"	35.113	34.851	14.6	104.4	1.6	-17.31	253.91	0.27	265.2 Cap
9 Okt 2024	20h08m44.86s	-23 29' 12.8"	35.114	34.868	14.6	103.4	1.6	-17.89	254.64	0.20	268.1 Cap
10 Okt 2024	20h08m44.55s	-23 29' 13.2"	35.114	34.886	14.6	102.4	1.6	-18.48	255.36	0.13	274.1 Cap
11 Okt 2024	20h08m44.37s	-23 29' 13.2"	35.115	34.903	14.6	101.4	1.6	-19.07	256.09	0.07	292.3 Cap
12 Okt 2024	20h08m44.31s	-23 29' 12.7"	35.116	34.921	14.6	100.5	1.6	-19.66	256.81	0.04	11.9 Cap
13 Okt 2024	20h08m44.37s	-23 29' 11.9"	35.116	34.939	14.6	99.5	1.6	-20.25	257.54	0.10	54.3 Cap
14 Okt 2024	20h08m44.56s	-23 29' 10.8"	35.117	34.956	14.6	98.5	1.6	-20.85	258.27	0.17	64.1 Cap
15 Okt 2024	20h08m44.86s	-23 29' 09.2"	35.118	34.974	14.6	97.5	1.6	-21.44	259.00	0.24	68.1 Cap
16 Okt 2024	20h08m45.29s	-23 29' 07.3"	35.119	34.992	14.6	96.5	1.6	-22.04	259.73	0.31	70.3 Cap
17 Okt 2024	20h08m45.84s	-23 29' 05.0"	35.119	35.009	14.6	95.5	1.6	-22.63	260.46	0.38	71.7 Cap
18 Okt 2024	20h08m46.52s	-23 29' 02.3"	35.120	35.027	14.6	94.5	1.6	-23.23	261.19	0.45	72.7 Cap
19 Okt 2024	20h08m47.31s	-23 28' 59.2"	35.121	35.045	14.6	93.5	1.6	-23.83	261.93	0.53	73.4 Cap
20 Okt 2024	20h08m48.23s	-23 28' 55.8"	35.121	35.063	14.6	92.6	1.6	-24.43	262.66	0.60	73.9 Cap
21 Okt 2024	20h08m49.27s	-23 28' 52.0"	35.122	35.081	14.6	91.6	1.6	-25.03	263.40	0.67	74.3 Cap
22 Okt 2024	20h08m50.44s	-23 28' 47.8"	35.123	35.098	14.6	90.6	1.6	-25.63	264.15	0.74	74.7 Cap

EPHEMERIDE 2024 – Pluto

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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23 Okt 2024	20h08m51.73s	-23 28' 43.3"	35.123	35.116	14.6	89.6	1.6	-26.23	264.89	0.82	75.0 Cap
24 Okt 2024	20h08m53.14s	-23 28' 38.4"	35.124	35.134	14.6	88.6	1.6	-26.83	265.64	0.89	75.2 Cap
25 Okt 2024	20h08m54.67s	-23 28' 33.1"	35.125	35.152	14.6	87.6	1.6	-27.43	266.39	0.96	75.4 Cap
26 Okt 2024	20h08m56.33s	-23 28' 27.4"	35.125	35.170	14.6	86.6	1.6	-28.03	267.14	1.04	75.6 Cap
27 Okt 2024	20h08m58.11s	-23 28' 21.4"	35.126	35.188	14.7	85.6	1.6	-28.63	267.90	1.11	75.8 Cap
28 Okt 2024	20h09m00.01s	-23 28' 15.1"	35.127	35.205	14.7	84.6	1.6	-29.24	268.66	1.18	75.9 Cap
29 Okt 2024	20h09m02.04s	-23 28' 08.4"	35.127	35.223	14.7	83.7	1.6	-29.84	269.43	1.25	76.1 Cap
30 Okt 2024	20h09m04.19s	-23 28' 01.3"	35.128	35.241	14.7	82.7	1.6	-30.44	270.20	1.33	76.2 Cap
31 Okt 2024	20h09m06.46s	-23 27' 53.8"	35.129	35.259	14.7	81.7	1.6	-31.04	270.97	1.40	76.3 Cap
1 Nov 2024	20h09m08.85s	-23 27' 46.1"	35.129	35.276	14.7	80.7	1.6	-31.64	271.75	1.47	76.4 Cap
2 Nov 2024	20h09m11.37s	-23 27' 37.9"	35.130	35.294	14.7	79.7	1.6	-32.24	272.53	1.54	76.5 Cap
3 Nov 2024	20h09m14.00s	-23 27' 29.4"	35.131	35.311	14.7	78.7	1.6	-32.83	273.32	1.61	76.6 Cap
4 Nov 2024	20h09m16.76s	-23 27' 20.6"	35.131	35.329	14.7	77.7	1.6	-33.43	274.11	1.68	76.6 Cap
5 Nov 2024	20h09m19.63s	-23 27' 11.5"	35.132	35.346	14.7	76.7	1.6	-34.03	274.91	1.75	76.7 Cap
6 Nov 2024	20h09m22.62s	-23 27' 02.0"	35.133	35.364	14.7	75.7	1.6	-34.62	275.72	1.82	76.8 Cap
7 Nov 2024	20h09m25.74s	-23 26' 52.1"	35.133	35.381	14.7	74.8	1.6	-35.22	276.53	1.89	76.9 Cap
8 Nov 2024	20h09m28.97s	-23 26' 41.9"	35.134	35.398	14.7	73.8	1.6	-35.81	277.35	1.96	76.9 Cap
9 Nov 2024	20h09m31.31s	-23 26' 31.5"	35.135	35.415	14.7	72.8	1.5	-36.40	278.18	2.03	77.0 Cap
10 Nov 2024	20h09m35.78s	-23 26' 20.6"	35.136	35.432	14.7	71.8	1.5	-36.99	279.01	2.10	77.1 Cap
11 Nov 2024	20h09m39.35s	-23 26' 09.5"	35.136	35.449	14.7	70.8	1.5	-37.58	279.86	2.17	77.1 Cap
12 Nov 2024	20h09m43.05s	-23 25' 58.0"	35.137	35.466	14.7	69.8	1.5	-38.17	280.70	2.23	77.2 Cap
13 Nov 2024	20h09m46.85s	-23 25' 46.3"	35.138	35.483	14.7	68.8	1.5	-38.75	281.56	2.30	77.2 Cap
14 Nov 2024	20h09m50.77s	-23 25' 34.2"	35.138	35.500	14.7	67.8	1.5	-39.33	282.43	2.36	77.3 Cap
15 Nov 2024	20h09m54.80s	-23 25' 21.8"	35.139	35.516	14.7	66.8	1.5	-39.91	283.31	2.43	77.3 Cap
16 Nov 2024	20h09m58.94s	-23 25' 09.2"	35.140	35.533	14.7	65.9	1.5	-40.49	284.19	2.49	77.4 Cap
17 Nov 2024	20h10m03.18s	-23 24' 56.2"	35.140	35.549	14.7	64.9	1.5	-41.06	285.09	2.56	77.4 Cap
18 Nov 2024	20h10m07.54s	-23 24' 42.9"	35.141	35.565	14.7	63.9	1.4	-41.64	285.99	2.62	77.5 Cap
19 Nov 2024	20h10m12.01s	-23 24' 29.4"	35.142	35.581	14.7	62.9	1.4	-42.20	286.91	2.69	77.5 Cap
20 Nov 2024	20h10m16.58s	-23 24' 15.6"	35.142	35.597	14.7	61.9	1.4	-42.77	287.84	2.75	77.5 Cap
21 Nov 2024	20h10m21.26s	-23 24' 01.5"	35.143	35.613	14.7	60.9	1.4	-43.33	288.77	2.81	77.6 Cap
22 Nov 2024	20h10m26.04s	-23 23' 47.1"	35.144	35.628	14.7	59.9	1.4	-43.89	289.73	2.87	77.6 Cap
23 Nov 2024	20h10m30.93s	-23 23' 32.4"	35.144	35.644	14.7	58.9	1.4	-44.45	290.69	2.93	77.7 Cap
24 Nov 2024	20h10m35.92s	-23 23' 17.5"	35.145	35.659	14.7	57.9	1.4	-45.00	291.66	2.99	77.7 Cap
25 Nov 2024	20h10m41.01s	-23 23' 02.3"	35.146	35.674	14.7	57.0	1.3	-45.55	292.65	3.05	77.7 Cap
26 Nov 2024	20h10m46.21s	-23 22' 46.8"	35.146	35.689	14.7	56.0	1.3	-46.09	293.66	3.11	77.8 Cap
27 Nov 2024	20h10m51.50s	-23 22' 31.1"	35.147	35.704	14.7	55.0	1.3	-46.63	294.68	3.17	77.8 Cap
28 Nov 2024	20h10m56.89s	-23 22' 15.1"	35.148	35.719	14.7	54.0	1.3	-47.16	295.71	3.23	77.8 Cap
29 Nov 2024	20h11m02.38s	-23 21' 58.9"	35.148	35.733	14.7	53.0	1.3	-47.69	296.76	3.29	77.9 Cap
30 Nov 2024	20h11m07.97s	-23 21' 42.4"	35.149	35.748	14.7	52.0	1.3	-48.21	297.82	3.34	77.9 Cap
1 Dez 2024	20h11m13.65s	-23 21' 25.7"	35.150	35.762	14.7	51.0	1.2	-48.73	298.90	3.40	77.9 Cap
2 Dez 2024	20h11m19.42s	-23 21' 08.7"	35.151	35.776	14.7	50.0	1.2	-49.24	299.99	3.45	78.0 Cap
3 Dez 2024	20h11m25.29s	-23 20' 51.6"	35.151	35.790	14.7	49.0	1.2	-49.75	301.11	3.50	78.0 Cap
4 Dez 2024	20h11m31.24s	-23 20' 34.2"	35.152	35.803	14.7	48.1	1.2	-50.25	302.24	3.56	78.0 Cap
5 Dez 2024	20h11m37.29s	-23 20' 16.6"	35.153	35.816	14.7	47.1	1.2	-50.74	303.39	3.61	78.1 Cap
6 Dez 2024	20h11m43.42s	-23 19' 58.7"	35.153	35.830	14.7	46.1	1.2	-51.23	304.56	3.66	78.1 Cap
7 Dez 2024	20h11m49.64s	-23 19' 40.7"	35.154	35.843	14.7	45.1	1.1	-51.71	305.75	3.71	78.1 Cap
8 Dez 2024	20h11m55.94s	-23 19' 22.5"	35.155	35.855	14.7	44.1	1.1	-52.18	306.95	3.76	78.2 Cap
9 Dez 2024	20h12m02.32s	-23 19' 04.0"	35.155	35.868	14.7	43.1	1.1	-52.65	308.18	3.80	78.2 Cap
10 Dez 2024	20h12m08.78s	-23 18' 45.4"	35.156	35.880	14.7	42.1	1.1	-53.10	309.43	3.85	78.2 Cap
11 Dez 2024	20h12m15.33s	-23 18' 26.6"	35.157	35.892	14.7	41.1	1.1	-53.55	310.70	3.90	78.3 Cap
12 Dez 2024	20h12m21.94s	-23 18' 07.6"	35.157	35.904	14.7	40.2	1.0	-53.99	311.99	3.94	78.3 Cap
13 Dez 2024	20h12m28.64s	-23 17' 48.4"	35.158	35.916	14.7	39.2	1.0	-54.42	313.31	3.98	78.3 Cap
14 Dez 2024	20h12m35.41s	-23 17' 29.1"	35.159	35.927	14.7	38.2	1.0	-54.84	314.64	4.03	78.3 Cap
15 Dez 2024	20h12m42.25s	-23 17' 09.6"	35.159	35.938	14.7	37.2	1.0	-55.25	316.00	4.07	78.4 Cap
16 Dez 2024	20h12m49.16s	-23 16' 50.0"	35.160	35.949	14.7	36.2	0.9	-55.65	317.38	4.11	78.4 Cap
17 Dez 2024	20h12m56.14s	-23 16' 30.2"	35.161	35.960	14.7	35.2	0.9	-56.04	318.78	4.15	78.4 Cap
18 Dez 2024	20h13m03.19s	-23 16' 10.2"	35.161	35.971	14.7	34.2	0.9	-56.42	320.21	4.19	78.5 Cap
19 Dez 2024	20h13m10.31s	-23 15' 50.1"	35.162	35.981	14.7	33.3	0.9	-56.78	321.66	4.23	78.5 Cap
20 Dez 2024	20h13m17.48s	-23 15' 29.9"	35.163	35.991	14.7	32.3	0.9	-57.14	323.14	4.27	78.5 Cap
21 Dez 2024	20h13m24.73s	-23 15' 09.6"	35.163	36.000	14.7	31.3	0.8	-57.48	324.64	4.30	78.5 Cap
22 Dez 2024	20h13m32.03s	-23 14' 49.1"	35.164	36.010	14.7	30.3	0.8	-57.81	326.16	4.34	78.6 Cap
23 Dez 2024	20h13m39.40s	-23 14' 28.5"	35.165	36.019	14.7	29.3	0.8	-58.12	327.70	4.37	78.6 Cap
24 Dez 2024	20h13m46.82s	-23 14' 07.7"	35.165	36.028	14.7	28.3	0.8	-58.43	329.27	4.40	78.6 Cap
25 Dez 2024	20h13m54.29s	-23 13' 46.9"	35.166	36.037	14.7	27.4	0.7	-58.71	330.86	4.44	78.7 Cap
26 Dez 2024	20h14m01.83s	-23 13' 26.0"	35.167	36.045	14.7	26.4	0.7	-58.99	332.47	4.47	78.7 Cap
27 Dez 2024	20h14m09.41s	-23 13' 05.0"	35.168	36.053	14.7	25.4	0.7	-59.25	334.10	4.50	78.7 Cap
28 Dez 2024	20h14m17.05s	-23 12' 43.8"	35.168	36.061	14.7	24.4	0.7	-59.49	335.76	4.53	78.7 Cap
29 Dez 2024	20h14m24.73s	-23 12' 22.6"	35.169	36.069	14.7	23.4	0.6	-59.72	337.43	4.55	78.8 Cap
30 Dez 2024	20h14m32.46s	-23 12' 01.3"	35.170	36.076	14.7	22.5	0.6	-59.93	339.12	4.58	78.8 Cap
31 Dez 2024	20h14m40.24s	-23 11' 40.0"	35.170	36.084	14.7	21.5	0.6	-60.12	340.83	4.61	78.8 Cap
1 Jan 2025	20h14m48.06s	-23 11' 18.6"	35.171	36.090	14.7	20.5	0.6	-60.30	342.56	4.63	78.9 Cap