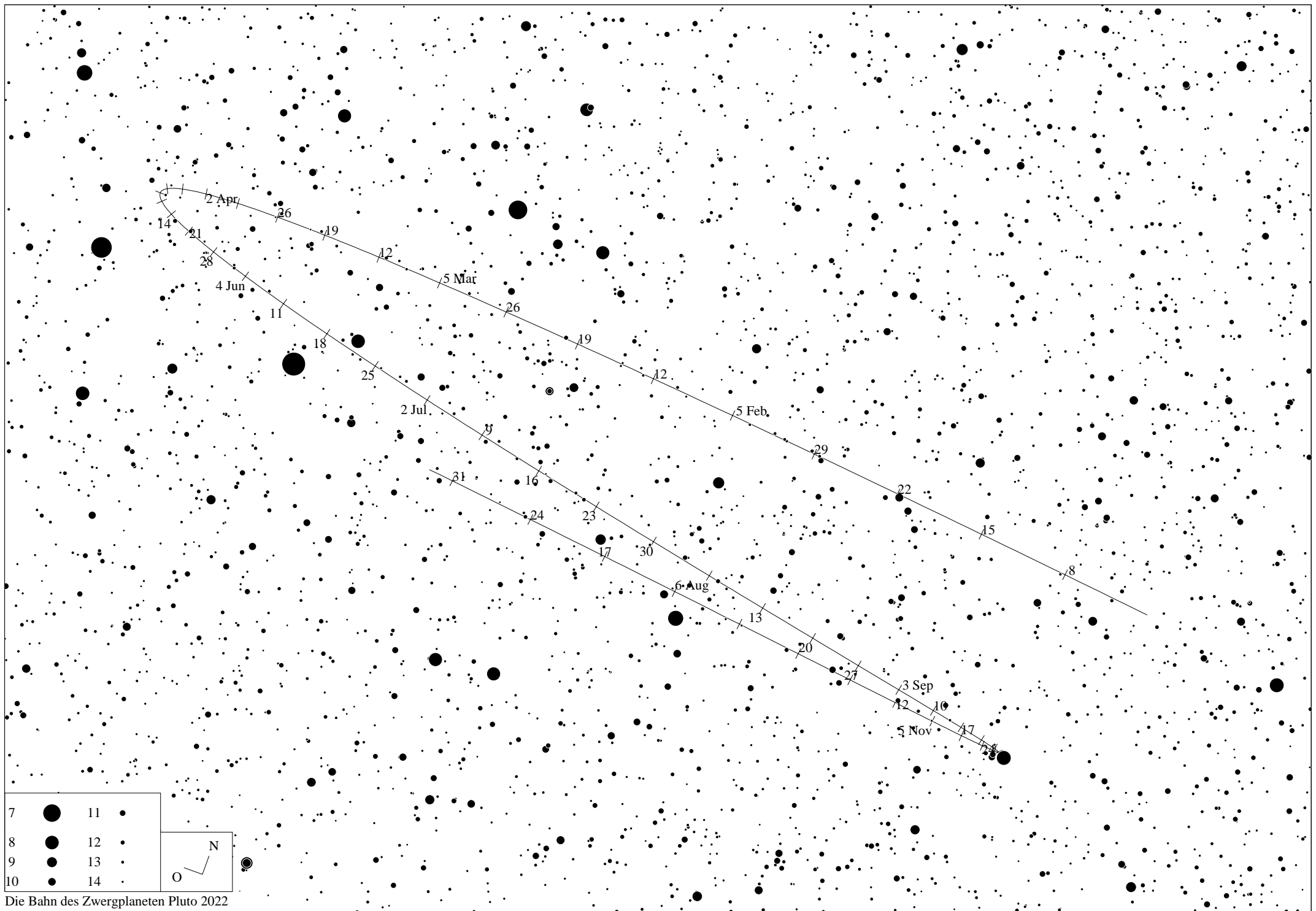


Die Bahn des Zwergplaneten Pluto 2022



EPHEMERIDE 2022 – PLUTO

<u>Datum</u>	<u>RA</u>	<u>Deklination</u>	<u>r</u>	<u>delta</u>	<u>mag</u>	<u>Elong</u>	<u>Phase</u>	<u>Höhe</u>	<u>Az.</u>	<u>Gesch.</u>	<u>PA</u>	<u>Stb</u>
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1 Jan 2022	19h51m49.79s	-22 42' 39.1"	34.434	35.380	14.6	15.5	0.4	-60.58	352.91	4.85	81.5	Sgr
2 Jan 2022	19h51m58.06s	-22 42' 21.8"	34.434	35.386	14.6	14.5	0.4	-60.63	354.70	4.87	81.5	Sgr
3 Jan 2022	19h52m06.36s	-22 42' 04.6"	34.435	35.390	14.6	13.5	0.4	-60.67	356.49	4.89	81.5	Sgr
4 Jan 2022	19h52m14.68s	-22 41' 47.2"	34.436	35.395	14.6	12.6	0.4	-60.70	358.28	4.90	81.5	Sgr
5 Jan 2022	19h52m23.04s	-22 41' 29.8"	34.436	35.399	14.6	11.6	0.3	-60.70	0.07	4.92	81.5	Sgr
6 Jan 2022	19h52m31.41s	-22 41' 12.4"	34.437	35.403	14.6	10.6	0.3	-60.68	1.86	4.93	81.6	Sgr
7 Jan 2022	19h52m39.80s	-22 40' 55.0"	34.438	35.407	14.6	9.6	0.3	-60.65	3.65	4.94	81.6	Sgr
8 Jan 2022	19h52m48.22s	-22 40' 37.5"	34.438	35.410	14.6	8.7	0.2	-60.60	5.44	4.95	81.6	Sgr
9 Jan 2022	19h52m56.65s	-22 40' 20.0"	34.439	35.413	14.6	7.7	0.2	-60.53	7.22	4.96	81.6	Sgr
10 Jan 2022	19h53m05.09s	-22 40' 02.5"	34.440	35.416	14.6	6.7	0.2	-60.44	8.99	4.97	81.6	Sgr
11 Jan 2022	19h53m13.55s	-22 39' 45.0"	34.440	35.419	14.6	5.8	0.2	-60.34	10.76	4.97	81.6	Sgr
12 Jan 2022	19h53m22.02s	-22 39' 27.5"	34.441	35.421	14.6	4.9	0.1	-60.21	12.51	4.98	81.6	Sgr
13 Jan 2022	19h53m30.49s	-22 39' 09.9"	34.442	35.423	14.6	4.0	0.1	-60.07	14.25	4.98	81.6	Sgr
14 Jan 2022	19h53m38.97s	-22 38' 52.4"	34.442	35.424	14.6	3.1	0.1	-59.92	15.97	4.99	81.6	Sgr
15 Jan 2022	19h53m47.46s	-22 38' 34.9"	34.443	35.426	14.6	2.4	0.1	-59.74	17.68	4.99	81.7	Sgr
16 Jan 2022	19h53m55.95s	-22 38' 17.4"	34.444	35.427	14.6	1.8	0.1	-59.55	19.38	4.99	81.7	Sgr
17 Jan 2022	19h54m04.44s	-22 38' 00.0"	34.444	35.428	14.6	1.8	0.1	-59.34	21.06	4.99	81.7	Sgr
18 Jan 2022	19h54m12.93s	-22 37' 42.5"	34.445	35.428	14.6	2.2	0.1	-59.12	22.71	4.99	81.7	Sgr
19 Jan 2022	19h54m21.42s	-22 37' 25.1"	34.446	35.428	14.6	2.9	0.1	-58.88	24.35	4.98	81.7	Sgr
20 Jan 2022	19h54m29.90s	-22 37' 07.8"	34.446	35.428	14.6	3.8	0.1	-58.63	25.97	4.98	81.7	Sgr
21 Jan 2022	19h54m38.38s	-22 36' 50.5"	34.447	35.428	14.6	4.7	0.1	-58.36	27.57	4.98	81.7	Sgr
22 Jan 2022	19h54m46.84s	-22 36' 33.2"	34.448	35.427	14.6	5.6	0.2	-58.08	29.15	4.97	81.8	Sgr
23 Jan 2022	19h54m55.30s	-22 36' 16.0"	34.448	35.426	14.6	6.5	0.2	-57.78	30.71	4.96	81.8	Sgr
24 Jan 2022	19h55m03.74s	-22 35' 58.9"	34.449	35.425	14.6	7.5	0.2	-57.47	32.24	4.95	81.8	Sgr
25 Jan 2022	19h55m12.17s	-22 35' 41.8"	34.450	35.423	14.6	8.4	0.2	-57.15	33.75	4.95	81.8	Sgr
26 Jan 2022	19h55m20.59s	-22 35' 24.8"	34.450	35.421	14.6	9.4	0.3	-56.81	35.24	4.93	81.8	Sgr
27 Jan 2022	19h55m28.98s	-22 35' 07.8"	34.451	35.419	14.6	10.4	0.3	-56.46	36.70	4.92	81.9	Sgr
28 Jan 2022	19h55m37.36s	-22 34' 51.0"	34.452	35.417	14.6	11.3	0.3	-56.10	38.15	4.91	81.9	Sgr
29 Jan 2022	19h55m45.71s	-22 34' 34.2"	34.452	35.414	14.6	12.3	0.3	-55.73	39.57	4.90	81.9	Sgr
30 Jan 2022	19h55m54.03s	-22 34' 17.6"	34.453	35.411	14.6	13.3	0.4	-55.34	40.96	4.88	81.9	Sgr
31 Jan 2022	19h56m02.33s	-22 34' 01.0"	34.454	35.408	14.6	14.3	0.4	-54.95	42.34	4.86	82.0	Sgr
1 Feb 2022	19h56m10.60s	-22 33' 44.5"	34.454	35.404	14.6	15.2	0.4	-54.55	43.69	4.85	82.0	Sgr
2 Feb 2022	19h56m18.85s	-22 33' 28.2"	34.455	35.400	14.6	16.2	0.5	-54.13	45.02	4.83	82.0	Sgr
3 Feb 2022	19h56m27.05s	-22 33' 12.0"	34.456	35.396	14.6	17.2	0.5	-53.71	46.33	4.81	82.0	Sgr
4 Feb 2022	19h56m35.22s	-22 32' 55.8"	34.456	35.392	14.6	18.2	0.5	-53.28	47.61	4.78	82.1	Sgr
5 Feb 2022	19h56m43.36s	-22 32' 39.9"	34.457	35.387	14.6	19.2	0.5	-52.83	48.88	4.76	82.1	Sgr
6 Feb 2022	19h56m51.45s	-22 32' 24.0"	34.458	35.382	14.6	20.1	0.6	-52.38	50.12	4.74	82.1	Sgr
7 Feb 2022	19h56m59.51s	-22 32' 08.3"	34.458	35.377	14.6	21.1	0.6	-51.93	51.35	4.71	82.2	Sgr
8 Feb 2022	19h57m07.52s	-22 31' 52.8"	34.459	35.371	14.6	22.1	0.6	-51.46	52.55	4.69	82.2	Sgr
9 Feb 2022	19h57m15.48s	-22 31' 37.4"	34.460	35.365	14.6	23.1	0.6	-50.99	53.74	4.66	82.2	Sgr
10 Feb 2022	19h57m23.40s	-22 31' 22.1"	34.460	35.359	14.6	24.0	0.7	-50.51	54.90	4.63	82.3	Sgr
11 Feb 2022	19h57m31.27s	-22 31' 07.0"	34.461	35.353	14.6	25.0	0.7	-50.02	56.05	4.60	82.3	Sgr
12 Feb 2022	19h57m39.10s	-22 30' 52.1"	34.462	35.346	14.6	26.0	0.7	-49.52	57.18	4.57	82.4	Sgr
13 Feb 2022	19h57m46.86s	-22 30' 37.4"	34.462	35.339	14.6	27.0	0.7	-49.02	58.29	4.54	82.4	Sgr
14 Feb 2022	19h57m54.58s	-22 30' 22.8"	34.463	35.332	14.6	28.0	0.8	-48.52	59.38	4.51	82.4	Sgr
15 Feb 2022	19h58m02.24s	-22 30' 08.4"	34.464	35.325	14.6	28.9	0.8	-48.01	60.46	4.47	82.5	Sgr
16 Feb 2022	19h58m09.84s	-22 29' 54.2"	34.464	35.317	14.6	29.9	0.8	-47.49	61.52	4.44	82.5	Sgr
17 Feb 2022	19h58m17.39s	-22 29' 40.2"	34.465	35.309	14.6	30.9	0.8	-46.96	62.57	4.40	82.6	Sgr
18 Feb 2022	19h58m24.87s	-22 29' 26.4"	34.466	35.301	14.6	31.9	0.9	-46.44	63.60	4.37	82.6	Sgr
19 Feb 2022	19h58m32.29s	-22 29' 12.8"	34.466	35.293	14.6	32.8	0.9	-45.90	64.61	4.33	82.7	Sgr
20 Feb 2022	19h58m39.65s	-22 28' 59.4"	34.467	35.284	14.6	33.8	0.9	-45.37	65.62	4.29	82.7	Sgr
21 Feb 2022	19h58m46.94s	-22 28' 46.2"	34.468	35.275	14.6	34.8	0.9	-44.83	66.61	4.25	82.8	Sgr
22 Feb 2022	19h58m54.17s	-22 28' 33.2"	34.468	35.266	14.6	35.8	1.0	-44.28	67.58	4.21	82.9	Sgr
23 Feb 2022	19h59m01.33s	-22 28' 20.4"	34.469	35.257	14.6	36.8	1.0	-43.73	68.54	4.17	82.9	Sgr
24 Feb 2022	19h59m08.42s	-22 28' 07.9"	34.470	35.247	14.6	37.7	1.0	-43.18	69.49	4.13	83.0	Sgr
25 Feb 2022	19h59m15.44s	-22 27' 55.6"	34.470	35.237	14.6	38.7	1.0	-42.62	70.43	4.08	83.0	Sgr
26 Feb 2022	19h59m22.38s	-22 27' 43.5"	34.471	35.227	14.6	39.7	1.1	-42.06	71.36	4.04	83.1	Sgr
27 Feb 2022	19h59m29.25s	-22 27' 31.7"	34.472	35.217	14.6	40.7	1.1	-41.50	72.27	3.99	83.2	Sgr
28 Feb 2022	19h59m36.04s	-22 27' 20.1"	34.472	35.206	14.6	41.7	1.1	-40.93	73.18	3.95	83.2	Sgr
1 Mar 2022	19h59m42.75s	-22 27' 08.8"	34.473	35.195	14.6	42.6	1.1	-40.36	74.07	3.90	83.3	Sgr
2 Mar 2022	19h59m49.38s	-22 26' 57.7"	34.474	35.184	14.6	43.6	1.1	-39.79	74.95	3.85	83.4	Sgr
3 Mar 2022	19h59m55.93s	-22 26' 46.8"	34.474	35.173	14.6	44.6	1.2	-39.22	75.83	3.80	83.5	Sgr
4 Mar 2022	20h00m02.40s	-22 26' 36.3"	34.475	35.162	14.6	45.6	1.2	-38.64	76.69	3.75	83.6	Sgr
5 Mar 2022	20h00m08.78s	-22 26' 26.0"	34.476	35.150	14.6	46.5	1.2	-38.06	77.55	3.70	83.7	Sgr
6 Mar 2022	20h00m15.08s	-22 26' 16.0"	34.476	35.139	14.6	47.5	1.2	-37.48	78.40	3.65	83.7	Sgr
7 Mar 2022	20h00m21.28s	-22 26' 06.2"	34.477	35.127	14.6	48.5	1.2	-36.90	79.24	3.60	83.8	Sgr
8 Mar 2022	20h00m27.40s	-22 25' 56.8"	34.478	35.114	14.6	49.5	1.3	-36.31	80.07	3.54	83.9	Sgr
9 Mar 2022	20h00m33.43s	-22 25' 47.6"	34.478	35.102	14.6	50.4	1.3	-35.73	80.90	3.49	84.0	Sgr
10 Mar 2022	20h00m39.36s	-22 25' 38.7"	34.479	35.089	14.6	51.4	1.3	-35.14	81.72	3.43	84.2	Sgr
11 Mar 2022	20h00m45.20s	-22 25' 30.1"	34.480	35.077	14.6	52.4	1.3	-34.55	82.53	3.38	84.3	Sgr
12 Mar 2022	20h00m50.95s	-22 25' 21.8"	34.480	35.064	14.6	53.4	1.3	-33.96	83.33	3.32	84.4	Sgr
13 Mar 2022	20h00m56.60s	-22 25' 13.8"	34.481	35.051	14.6	54.3	1.3	-33.37	84.13	3.26	84.5	Sgr
14 Mar 2022	20h01m02.15s	-22 25' 06.1"	34.482	35.038	14.6	55.3	1.4	-32.78	84.92	3.21	84.6	Sgr
15 Mar 2022	20h01m07.61s	-22 24' 58.7"	34.482	35.024	14.6	56.3	1.4	-32.18	85.71	3.15	84.8	Sgr

EPHEMERIDE 2022 – PLUTO

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
16 Mar 2022	20h01m12.97s	-22 24' 51.6"	34.483	35.011	14.6	57.3	1.4	-31.59	86.49	3.09	84.9	Sgr
17 Mar 2022	20h01m18.22s	-22 24' 44.8"	34.484	34.997	14.6	58.2	1.4	-31.00	87.27	3.03	85.1	Sgr
18 Mar 2022	20h01m23.38s	-22 24' 38.4"	34.484	34.983	14.6	59.2	1.4	-30.40	88.04	2.97	85.2	Sgr
19 Mar 2022	20h01m28.43s	-22 24' 32.2"	34.485	34.969	14.6	60.2	1.4	-29.81	88.81	2.91	85.4	Sgr
20 Mar 2022	20h01m33.38s	-22 24' 26.4"	34.486	34.955	14.6	61.2	1.4	-29.21	89.57	2.85	85.6	Sgr
21 Mar 2022	20h01m38.23s	-22 24' 20.9"	34.486	34.940	14.6	62.1	1.5	-28.61	90.33	2.78	85.7	Sgr
22 Mar 2022	20h01m42.97s	-22 24' 15.7"	34.487	34.926	14.6	63.1	1.5	-28.02	91.09	2.72	85.9	Sgr
23 Mar 2022	20h01m47.61s	-22 24' 10.9"	34.488	34.911	14.6	64.1	1.5	-27.42	91.84	2.66	86.1	Sgr
24 Mar 2022	20h01m52.14s	-22 24' 06.3"	34.488	34.897	14.6	65.1	1.5	-26.82	92.59	2.60	86.3	Sgr
25 Mar 2022	20h01m56.56s	-22 24' 02.1"	34.489	34.882	14.6	66.0	1.5	-26.23	93.33	2.53	86.6	Sgr
26 Mar 2022	20h02m00.87s	-22 23' 58.3"	34.490	34.867	14.6	67.0	1.5	-25.63	94.08	2.47	86.8	Sgr
27 Mar 2022	20h02m05.07s	-22 23' 54.8"	34.490	34.852	14.6	68.0	1.5	-25.03	94.82	2.40	87.0	Sgr
28 Mar 2022	20h02m09.16s	-22 23' 51.6"	34.491	34.837	14.6	69.0	1.5	-24.44	95.55	2.34	87.3	Sgr
29 Mar 2022	20h02m13.14s	-22 23' 48.8"	34.492	34.821	14.6	69.9	1.6	-23.84	96.29	2.27	87.6	Sgr
30 Mar 2022	20h02m17.01s	-22 23' 46.3"	34.492	34.806	14.6	70.9	1.6	-23.25	97.02	2.20	87.9	Sgr
31 Mar 2022	20h02m20.76s	-22 23' 44.2"	34.493	34.790	14.6	71.9	1.6	-22.66	97.75	2.13	88.2	Sgr
1 Apr 2022	20h02m24.39s	-22 23' 42.4"	34.494	34.775	14.6	72.9	1.6	-22.06	98.48	2.07	88.6	Sgr
2 Apr 2022	20h02m27.91s	-22 23' 40.9"	34.494	34.759	14.6	73.8	1.6	-21.47	99.21	2.00	89.0	Sgr
3 Apr 2022	20h02m31.31s	-22 23' 39.9"	34.495	34.744	14.6	74.8	1.6	-20.88	99.93	1.93	89.4	Sgr
4 Apr 2022	20h02m34.60s	-22 23' 39.1"	34.496	34.728	14.6	75.8	1.6	-20.29	100.66	1.86	89.8	Sgr
5 Apr 2022	20h02m37.77s	-22 23' 38.8"	34.496	34.712	14.6	76.8	1.6	-19.70	101.38	1.79	90.3	Sgr
6 Apr 2022	20h02m40.81s	-22 23' 38.8"	34.497	34.696	14.6	77.7	1.6	-19.12	102.10	1.72	90.8	Sgr
7 Apr 2022	20h02m43.75s	-22 23' 39.1"	34.498	34.680	14.6	78.7	1.6	-18.53	102.83	1.65	91.3	Sgr
8 Apr 2022	20h02m46.56s	-22 23' 39.8"	34.498	34.664	14.6	79.7	1.6	-17.94	103.55	1.58	91.9	Sgr
9 Apr 2022	20h02m49.25s	-22 23' 40.9"	34.499	34.648	14.6	80.6	1.6	-17.36	104.27	1.52	92.6	Sgr
10 Apr 2022	20h02m51.82s	-22 23' 42.3"	34.500	34.631	14.6	81.6	1.6	-16.78	104.99	1.45	93.3	Sgr
11 Apr 2022	20h02m54.27s	-22 23' 44.1"	34.500	34.615	14.6	82.6	1.7	-16.20	105.71	1.38	94.1	Sgr
12 Apr 2022	20h02m56.60s	-22 23' 46.3"	34.501	34.599	14.6	83.6	1.7	-15.62	106.43	1.31	94.9	Sgr
13 Apr 2022	20h02m58.81s	-22 23' 48.8"	34.502	34.583	14.6	84.5	1.7	-15.05	107.16	1.24	95.9	Sgr
14 Apr 2022	20h03m00.90s	-22 23' 51.6"	34.502	34.566	14.6	85.5	1.7	-14.47	107.88	1.17	97.0	Sgr
15 Apr 2022	20h03m02.87s	-22 23' 54.9"	34.503	34.550	14.6	86.5	1.7	-13.90	108.60	1.10	98.2	Sgr
16 Apr 2022	20h03m04.72s	-22 23' 58.5"	34.504	34.534	14.6	87.4	1.7	-13.33	109.32	1.04	99.6	Sgr
17 Apr 2022	20h03m06.45s	-22 24' 02.4"	34.504	34.517	14.6	88.4	1.7	-12.77	110.05	0.97	101.2	Sgr
18 Apr 2022	20h03m08.05s	-22 24' 06.8"	34.505	34.501	14.6	89.4	1.7	-12.20	110.77	0.90	103.0	Sgr
19 Apr 2022	20h03m09.53s	-22 24' 11.4"	34.506	34.485	14.6	90.4	1.7	-11.64	111.50	0.84	105.1	Sgr
20 Apr 2022	20h03m10.89s	-22 24' 16.5"	34.506	34.468	14.6	91.3	1.7	-11.08	112.22	0.77	107.5	Sgr
21 Apr 2022	20h03m12.13s	-22 24' 21.9"	34.507	34.452	14.6	92.3	1.7	-10.52	112.95	0.71	110.4	Sgr
22 Apr 2022	20h03m13.25s	-22 24' 27.6"	34.508	34.436	14.6	93.3	1.7	-9.97	113.68	0.65	113.8	Sgr
23 Apr 2022	20h03m14.24s	-22 24' 33.7"	34.508	34.419	14.6	94.2	1.7	-9.42	114.42	0.59	117.9	Sgr
24 Apr 2022	20h03m15.12s	-22 24' 40.2"	34.509	34.403	14.6	95.2	1.7	-8.87	115.15	0.54	122.9	Sgr
25 Apr 2022	20h03m15.87s	-22 24' 47.0"	34.510	34.387	14.6	96.2	1.7	-8.32	115.88	0.49	128.9	Sgr
26 Apr 2022	20h03m16.49s	-22 24' 54.2"	34.510	34.370	14.6	97.2	1.7	-7.78	116.62	0.44	136.2	Sgr
27 Apr 2022	20h03m16.99s	-22 25' 01.7"	34.511	34.354	14.6	98.1	1.7	-7.24	117.36	0.41	144.9	Sgr
28 Apr 2022	20h03m17.37s	-22 25' 09.6"	34.512	34.338	14.6	99.1	1.7	-6.71	118.10	0.39	154.9	Sgr
29 Apr 2022	20h03m17.63s	-22 25' 17.9"	34.512	34.322	14.6	100.1	1.6	-6.18	118.85	0.38	165.7	Sgr
30 Apr 2022	20h03m17.77s	-22 25' 26.5"	34.513	34.306	14.6	101.0	1.6	-5.65	119.59	0.38	176.8	Sgr
1 Mai 2022	20h03m17.78s	-22 25' 35.4"	34.514	34.290	14.6	102.0	1.6	-5.12	120.34	0.40	187.2	Sgr
2 Mai 2022	20h03m17.67s	-22 25' 44.7"	34.514	34.274	14.6	103.0	1.6	-4.60	121.09	0.43	196.5	Sgr
3 Mai 2022	20h03m17.44s	-22 25' 54.3"	34.515	34.258	14.6	104.0	1.6	-4.09	121.85	0.46	204.4	Sgr
4 Mai 2022	20h03m17.09s	-22 26' 04.3"	34.516	34.242	14.6	104.9	1.6	-3.57	122.60	0.51	211.0	Sgr
5 Mai 2022	20h03m16.61s	-22 26' 14.6"	34.516	34.226	14.6	105.9	1.6	-3.07	123.36	0.56	216.4	Sgr
6 Mai 2022	20h03m16.02s	-22 26' 25.3"	34.517	34.211	14.6	106.9	1.6	-2.56	124.13	0.61	220.9	Sgr
7 Mai 2022	20h03m15.31s	-22 26' 36.3"	34.518	34.195	14.6	107.8	1.6	-2.06	124.89	0.67	224.6	Sgr
8 Mai 2022	20h03m14.48s	-22 26' 47.6"	34.518	34.180	14.5	108.8	1.6	-1.57	125.66	0.73	227.7	Sgr
9 Mai 2022	20h03m13.53s	-22 26' 59.3"	34.519	34.164	14.5	109.8	1.6	-1.08	126.43	0.79	230.3	Sgr
10 Mai 2022	20h03m12.46s	-22 27' 11.3"	34.520	34.149	14.5	110.8	1.6	-0.59	127.21	0.85	232.6	Sgr
11 Mai 2022	20h03m11.27s	-22 27' 23.6"	34.520	34.134	14.5	111.7	1.6	-0.11	127.99	0.92	234.5	Sgr
12 Mai 2022	20h03m09.97s	-22 27' 36.2"	34.521	34.119	14.5	112.7	1.5	0.37	128.77	0.98	236.1	Sgr
13 Mai 2022	20h03m08.56s	-22 27' 49.1"	34.522	34.104	14.5	113.7	1.5	0.84	129.56	1.04	237.6	Sgr
14 Mai 2022	20h03m07.03s	-22 28' 02.4"	34.522	34.089	14.5	114.6	1.5	1.30	130.35	1.10	238.9	Sgr
15 Mai 2022	20h03m05.38s	-22 28' 15.9"	34.523	34.074	14.5	115.6	1.5	1.76	131.14	1.17	240.0	Sgr
16 Mai 2022	20h03m03.63s	-22 28' 29.8"	34.524	34.059	14.5	116.6	1.5	2.22	131.94	1.23	241.1	Sgr
17 Mai 2022	20h03m01.76s	-22 28' 44.0"	34.524	34.045	14.5	117.6	1.5	2.67	132.74	1.29	242.0	Sgr
18 Mai 2022	20h02m59.78s	-22 28' 58.4"	34.525	34.031	14.5	118.5	1.5	3.11	133.55	1.36	242.8	Sgr
19 Mai 2022	20h02m57.69s	-22 29' 13.2"	34.526	34.016	14.5	119.5	1.5	3.55	134.36	1.42	243.6	Sgr
20 Mai 2022	20h02m55.49s	-22 29' 28.2"	34.526	34.002	14.5	120.5	1.4	3.98	135.17	1.48	244.2	Sgr
21 Mai 2022	20h02m53.18s	-22 29' 43.6"	34.527	33.988	14.5	121.4	1.4	4.41	135.99	1.54	244.9	Sgr
22 Mai 2022	20h02m50.76s	-22 29' 59.2"	34.528	33.975	14.5	122.4	1.4	4.83	136.81	1.61	245.5	Sgr
23 Mai 2022	20h02m48.24s	-22 30' 15.1"	34.528	33.961	14.5	123.4	1.4	5.24	137.64	1.67	246.0	Sgr
24 Mai 2022	20h02m45.60s	-22 30' 31.3"	34.529	33.948	14.5	124.4	1.4	5.65	138.47	1.73	246.5	Sgr
25 Mai 2022	20h02m42.87s	-22 30' 47.7"	34.530	33.934	14.5	125.3	1.4	6.05	139.30	1.79	246.9	Sgr
26 Mai 2022	20h02m40.02s	-22 31' 04.4"	34.530	33.921	14.5	126.3	1.4	6.44	140.14	1.85	247.4	Sgr
27 Mai 2022	20h02m37.08s	-22 31' 21.4"	34.531	33.908	14.5	127.3	1.3	6.83	140.98	1.91	247.8	Sgr
28 Mai 2022	20h02m34.03s	-22 31' 38.6"	34.532	33.895	14.5	128.2	1.3	7.21	141.83	1.97	248.1	Sgr

EPHEMERIDE 2022 – PLUTO

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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29 Mai 2022	20h02m30.88s	-22 31' 56.1"	34.532	33.883	14.5	129.2	1.3	7.58	142.68	2.02	248.5	Sgr
30 Mai 2022	20h02m27.63s	-22 32' 13.8"	34.533	33.870	14.5	130.2	1.3	7.94	143.54	2.08	248.8	Sgr
31 Mai 2022	20h02m24.29s	-22 32' 31.8"	34.534	33.858	14.5	131.2	1.3	8.30	144.40	2.14	249.1	Sgr
1 Jun 2022	20h02m20.84s	-22 32' 50.0"	34.534	33.846	14.5	132.1	1.2	8.65	145.26	2.19	249.4	Sgr
2 Jun 2022	20h02m17.30s	-22 33' 08.4"	34.535	33.834	14.5	133.1	1.2	8.99	146.13	2.25	249.7	Sgr
3 Jun 2022	20h02m13.67s	-22 33' 27.1"	34.536	33.823	14.5	134.1	1.2	9.33	147.00	2.30	249.9	Sgr
4 Jun 2022	20h02m09.94s	-22 33' 46.0"	34.536	33.811	14.5	135.0	1.2	9.66	147.88	2.36	250.2	Sgr
5 Jun 2022	20h02m06.12s	-22 34' 05.1"	34.537	33.800	14.5	136.0	1.2	9.98	148.76	2.41	250.4	Sgr
6 Jun 2022	20h02m02.22s	-22 34' 24.4"	34.538	33.789	14.5	137.0	1.1	10.29	149.65	2.46	250.6	Sgr
7 Jun 2022	20h01m58.22s	-22 34' 43.9"	34.538	33.778	14.5	138.0	1.1	10.59	150.54	2.51	250.8	Sgr
8 Jun 2022	20h01m54.14s	-22 35' 03.6"	34.539	33.767	14.5	138.9	1.1	10.88	151.43	2.56	251.0	Sgr
9 Jun 2022	20h01m49.98s	-22 35' 23.5"	34.540	33.757	14.5	139.9	1.1	11.17	152.33	2.61	251.2	Sgr
10 Jun 2022	20h01m45.73s	-22 35' 43.6"	34.540	33.747	14.5	140.9	1.1	11.45	153.23	2.65	251.4	Sgr
11 Jun 2022	20h01m41.40s	-22 36' 03.9"	34.541	33.737	14.5	141.8	1.0	11.72	154.14	2.70	251.6	Sgr
12 Jun 2022	20h01m36.99s	-22 36' 24.3"	34.542	33.727	14.5	142.8	1.0	11.98	155.04	2.75	251.7	Sgr
13 Jun 2022	20h01m32.50s	-22 36' 44.9"	34.542	33.718	14.5	143.8	1.0	12.23	155.96	2.79	251.9	Sgr
14 Jun 2022	20h01m27.94s	-22 37' 05.7"	34.543	33.709	14.5	144.8	1.0	12.47	156.87	2.83	252.1	Sgr
15 Jun 2022	20h01m23.30s	-22 37' 26.6"	34.544	33.700	14.5	145.7	0.9	12.70	157.79	2.88	252.2	Sgr
16 Jun 2022	20h01m18.59s	-22 37' 47.7"	34.544	33.691	14.5	146.7	0.9	12.93	158.72	2.92	252.3	Sgr
17 Jun 2022	20h01m13.81s	-22 38' 08.9"	34.545	33.682	14.5	147.7	0.9	13.14	159.65	2.96	252.5	Sgr
18 Jun 2022	20h01m08.96s	-22 38' 30.2"	34.546	33.674	14.5	148.6	0.9	13.35	160.58	3.00	252.6	Sgr
19 Jun 2022	20h01m04.04s	-22 38' 51.7"	34.546	33.666	14.5	149.6	0.9	13.54	161.51	3.04	252.7	Sgr
20 Jun 2022	20h00m59.05s	-22 39' 13.3"	34.547	33.658	14.5	150.6	0.8	13.73	162.45	3.07	252.9	Sgr
21 Jun 2022	20h00m54.00s	-22 39' 35.0"	34.548	33.651	14.5	151.6	0.8	13.91	163.39	3.11	253.0	Sgr
22 Jun 2022	20h00m48.88s	-22 39' 56.8"	34.548	33.643	14.5	152.5	0.8	14.07	164.33	3.15	253.1	Sgr
23 Jun 2022	20h00m43.71s	-22 40' 18.8"	34.549	33.636	14.5	153.5	0.8	14.23	165.27	3.18	253.2	Sgr
24 Jun 2022	20h00m38.47s	-22 40' 40.8"	34.550	33.630	14.5	154.5	0.7	14.38	166.22	3.21	253.3	Sgr
25 Jun 2022	20h00m33.18s	-22 41' 02.9"	34.550	33.623	14.5	155.4	0.7	14.51	167.17	3.25	253.4	Sgr
26 Jun 2022	20h00m27.83s	-22 41' 25.2"	34.551	33.617	14.5	156.4	0.7	14.64	168.12	3.28	253.5	Sgr
27 Jun 2022	20h00m22.43s	-22 41' 47.5"	34.552	33.611	14.5	157.4	0.6	14.76	169.08	3.31	253.6	Sgr
28 Jun 2022	20h00m16.97s	-22 42' 09.8"	34.552	33.605	14.5	158.4	0.6	14.86	170.03	3.34	253.7	Sgr
29 Jun 2022	20h00m11.47s	-22 42' 32.3"	34.553	33.600	14.5	159.3	0.6	14.96	170.99	3.36	253.8	Sgr
30 Jun 2022	20h00m05.92s	-22 42' 54.8"	34.554	33.595	14.5	160.3	0.6	15.05	171.95	3.39	253.9	Sgr
1 Jul 2022	20h00m00.32s	-22 43' 17.3"	34.554	33.590	14.5	161.3	0.5	15.12	172.91	3.41	254.0	Sgr
2 Jul 2022	19h59m54.69s	-22 43' 39.9"	34.555	33.585	14.5	162.2	0.5	15.19	173.88	3.44	254.1	Sgr
3 Jul 2022	19h59m49.01s	-22 44' 02.6"	34.556	33.581	14.5	163.2	0.5	15.24	174.84	3.46	254.2	Sgr
4 Jul 2022	19h59m43.29s	-22 44' 25.2"	34.556	33.577	14.5	164.2	0.5	15.29	175.80	3.48	254.3	Sgr
5 Jul 2022	19h59m37.54s	-22 44' 47.9"	34.557	33.573	14.5	165.1	0.4	15.32	176.77	3.50	254.3	Sgr
6 Jul 2022	19h59m31.75s	-22 45' 10.7"	34.558	33.570	14.5	166.1	0.4	15.34	177.73	3.52	254.4	Sgr
7 Jul 2022	19h59m25.93s	-22 45' 33.4"	34.558	33.567	14.5	167.1	0.4	15.36	178.70	3.53	254.5	Sgr
8 Jul 2022	19h59m20.09s	-22 45' 56.1"	34.559	33.564	14.5	168.0	0.3	15.36	179.67	3.55	254.6	Sgr
9 Jul 2022	19h59m14.21s	-22 46' 18.8"	34.560	33.561	14.5	169.0	0.3	15.35	180.63	3.56	254.6	Sgr
10 Jul 2022	19h59m08.31s	-22 46' 41.6"	34.560	33.559	14.5	169.9	0.3	15.33	181.60	3.58	254.7	Sgr
11 Jul 2022	19h59m02.39s	-22 47' 04.3"	34.561	33.557	14.5	170.9	0.3	15.30	182.56	3.59	254.8	Sgr
12 Jul 2022	19h58m56.45s	-22 47' 26.9"	34.562	33.555	14.5	171.8	0.2	15.26	183.53	3.60	254.8	Sgr
13 Jul 2022	19h58m50.49s	-22 47' 49.6"	34.562	33.554	14.5	172.8	0.2	15.21	184.49	3.61	254.9	Sgr
14 Jul 2022	19h58m44.51s	-22 48' 12.2"	34.563	33.552	14.5	173.7	0.2	15.15	185.46	3.61	255.0	Sgr
15 Jul 2022	19h58m38.51s	-22 48' 34.8"	34.564	33.552	14.5	174.6	0.2	15.08	186.42	3.62	255.0	Sgr
16 Jul 2022	19h58m32.51s	-22 48' 57.3"	34.564	33.551	14.5	175.5	0.1	15.00	187.38	3.63	255.1	Sgr
17 Jul 2022	19h58m26.49s	-22 49' 19.8"	34.565	33.551	14.5	176.3	0.1	14.91	188.34	3.63	255.1	Sgr
18 Jul 2022	19h58m20.47s	-22 49' 42.2"	34.566	33.551	14.5	177.1	0.1	14.81	189.30	3.63	255.2	Sgr
19 Jul 2022	19h58m14.44s	-22 50' 04.6"	34.566	33.551	14.5	177.6	0.1	14.70	190.26	3.64	255.3	Sgr
20 Jul 2022	19h58m08.40s	-22 50' 26.8"	34.567	33.552	14.5	177.9	0.1	14.57	191.21	3.64	255.3	Sgr
21 Jul 2022	19h58m02.36s	-22 50' 49.1"	34.568	33.552	14.5	177.7	0.1	14.44	192.16	3.64	255.4	Sgr
22 Jul 2022	19h57m56.32s	-22 51' 11.2"	34.568	33.554	14.5	177.1	0.1	14.30	193.12	3.63	255.4	Sgr
23 Jul 2022	19h57m50.29s	-22 51' 33.2"	34.569	33.555	14.5	176.4	0.1	14.15	194.06	3.63	255.5	Sgr
24 Jul 2022	19h57m44.26s	-22 51' 55.1"	34.570	33.557	14.5	175.6	0.1	13.98	195.01	3.62	255.5	Sgr
25 Jul 2022	19h57m38.24s	-22 52' 17.0"	34.570	33.559	14.5	174.7	0.2	13.81	195.95	3.62	255.6	Sgr
26 Jul 2022	19h57m32.22s	-22 52' 38.7"	34.571	33.561	14.5	173.8	0.2	13.63	196.89	3.61	255.6	Sgr
27 Jul 2022	19h57m26.22s	-22 53' 00.3"	34.572	33.564	14.5	172.9	0.2	13.44	197.83	3.60	255.7	Sgr
28 Jul 2022	19h57m20.23s	-22 53' 21.8"	34.572	33.567	14.5	171.9	0.2	13.24	198.77	3.59	255.7	Sgr
29 Jul 2022	19h57m14.26s	-22 53' 43.1"	34.573	33.570	14.5	171.0	0.3	13.03	199.70	3.58	255.8	Sgr
30 Jul 2022	19h57m08.31s	-22 54' 04.3"	34.574	33.573	14.5	170.0	0.3	12.80	200.62	3.57	255.8	Sgr
31 Jul 2022	19h57m02.38s	-22 54' 25.4"	34.574	33.577	14.5	169.1	0.3	12.57	201.55	3.55	255.9	Sgr
1 Aug 2022	19h56m56.47s	-22 54' 46.4"	34.575	33.581	14.5	168.1	0.3	12.34	202.47	3.54	255.9	Sgr
2 Aug 2022	19h56m50.59s	-22 55' 07.1"	34.576	33.585	14.5	167.1	0.4	12.09	203.39	3.52	256.0	Sgr
3 Aug 2022	19h56m44.74s	-22 55' 27.8"	34.576	33.590	14.5	166.2	0.4	11.83	204.30	3.50	256.0	Sgr
4 Aug 2022	19h56m38.92s	-22 55' 48.2"	34.577	33.595	14.5	165.2	0.4	11.56	205.21	3.48	256.0	Sgr
5 Aug 2022	19h56m33.13s	-22 56' 08.5"	34.578	33.600	14.5	164.2	0.5	11.29	206.12	3.46	256.1	Sgr
6 Aug 2022	19h56m27.37s	-22 56' 28.6"	34.578	33.606	14.5	163.3	0.5	11.00	207.02	3.44	256.1	Sgr
7 Aug 2022	19h56m21.65s	-22 56' 48.5"	34.579	33.611	14.5	162.3	0.5	10.71	207.92	3.41	256.2	Sgr
8 Aug 2022	19h56m15.97s	-22 57' 08.3"	34.580	33.618	14.5	161.3	0.5	10.41	208.82	3.39	256.2	Sgr
9 Aug 2022	19h56m10.34s	-22 57' 27.8"	34.580	33.624	14.5	160.3	0.6	10.10	209.71	3.36	256.2	Sgr
10 Aug 2022	19h56m04.74s	-22 57' 47.2"	34.581	33.630	14.5	159.4	0.6	9.78	210.59	3.33	256.3	Sgr

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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11 Aug 2022	19h55m59.19s	-22 58' 06.3"	34.582	33.637	14.5	158.4	0.6	9.46	211.48	3.31	256.3	Sgr
12 Aug 2022	19h55m53.69s	-22 58' 25.3"	34.582	33.644	14.5	157.4	0.6	9.13	212.36	3.28	256.3	Sgr
13 Aug 2022	19h55m48.24s	-22 58' 44.0"	34.583	33.652	14.5	156.4	0.7	8.78	213.23	3.25	256.4	Sgr
14 Aug 2022	19h55m42.83s	-22 59' 02.5"	34.584	33.660	14.5	155.5	0.7	8.43	214.10	3.21	256.4	Sgr
15 Aug 2022	19h55m37.48s	-22 59' 20.9"	34.584	33.667	14.5	154.5	0.7	8.08	214.97	3.18	256.4	Sgr
16 Aug 2022	19h55m32.19s	-22 59' 38.9"	34.585	33.676	14.5	153.5	0.7	7.71	215.83	3.15	256.5	Sgr
17 Aug 2022	19h55m26.95s	-22 59' 56.8"	34.586	33.684	14.5	152.5	0.8	7.34	216.68	3.11	256.5	Sgr
18 Aug 2022	19h55m21.77s	-23 00' 14.4"	34.586	33.693	14.5	151.6	0.8	6.96	217.54	3.08	256.5	Sgr
19 Aug 2022	19h55m16.65s	-23 00' 31.8"	34.587	33.702	14.5	150.6	0.8	6.58	218.39	3.04	256.6	Sgr
20 Aug 2022	19h55m11.59s	-23 00' 48.9"	34.588	33.711	14.5	149.6	0.8	6.18	219.23	3.00	256.6	Sgr
21 Aug 2022	19h55m06.59s	-23 01' 05.8"	34.588	33.721	14.5	148.6	0.9	5.78	220.07	2.96	256.6	Sgr
22 Aug 2022	19h55m01.67s	-23 01' 22.5"	34.589	33.730	14.5	147.6	0.9	5.38	220.91	2.92	256.6	Sgr
23 Aug 2022	19h54m56.81s	-23 01' 38.8"	34.590	33.740	14.5	146.7	0.9	4.96	221.74	2.88	256.7	Sgr
24 Aug 2022	19h54m52.02s	-23 01' 55.0"	34.590	33.751	14.5	145.7	0.9	4.54	222.57	2.83	256.7	Sgr
25 Aug 2022	19h54m47.31s	-23 02' 10.8"	34.591	33.761	14.5	144.7	1.0	4.12	223.39	2.79	256.7	Sgr
26 Aug 2022	19h54m42.67s	-23 02' 26.4"	34.592	33.772	14.5	143.7	1.0	3.68	224.21	2.74	256.7	Sgr
27 Aug 2022	19h54m38.10s	-23 02' 41.8"	34.592	33.783	14.5	142.7	1.0	3.24	225.03	2.70	256.7	Sgr
28 Aug 2022	19h54m33.62s	-23 02' 56.8"	34.593	33.794	14.5	141.8	1.0	2.80	225.84	2.65	256.7	Sgr
29 Aug 2022	19h54m29.21s	-23 03' 11.6"	34.594	33.805	14.5	140.8	1.1	2.35	226.65	2.60	256.8	Sgr
30 Aug 2022	19h54m24.89s	-23 03' 26.1"	34.594	33.817	14.5	139.8	1.1	1.89	227.45	2.55	256.8	Sgr
31 Aug 2022	19h54m20.65s	-23 03' 40.3"	34.595	33.829	14.5	138.8	1.1	1.43	228.25	2.50	256.8	Sgr
1 Sep 2022	19h54m16.50s	-23 03' 54.2"	34.596	33.841	14.5	137.8	1.1	0.96	229.05	2.45	256.8	Sgr
2 Sep 2022	19h54m12.43s	-23 04' 07.8"	34.596	33.853	14.5	136.8	1.1	0.49	229.84	2.39	256.8	Sgr
3 Sep 2022	19h54m08.45s	-23 04' 21.2"	34.597	33.866	14.5	135.9	1.2	0.01	230.63	2.34	256.8	Sgr
4 Sep 2022	19h54m04.56s	-23 04' 34.2"	34.598	33.879	14.5	134.9	1.2	-0.47	231.41	2.29	256.8	Sgr
5 Sep 2022	19h54m00.77s	-23 04' 46.9"	34.598	33.892	14.5	133.9	1.2	-0.96	232.19	2.23	256.8	Sgr
6 Sep 2022	19h53m57.07s	-23 04' 59.3"	34.599	33.905	14.5	132.9	1.2	-1.45	232.97	2.17	256.8	Sgr
7 Sep 2022	19h53m53.46s	-23 05' 11.4"	34.600	33.918	14.5	131.9	1.2	-1.95	233.75	2.12	256.8	Sgr
8 Sep 2022	19h53m49.95s	-23 05' 23.2"	34.600	33.932	14.5	130.9	1.3	-2.45	234.52	2.06	256.8	Sgr
9 Sep 2022	19h53m46.53s	-23 05' 34.7"	34.601	33.945	14.5	130.0	1.3	-2.96	235.29	2.00	256.8	Sgr
10 Sep 2022	19h53m43.21s	-23 05' 45.9"	34.602	33.959	14.5	129.0	1.3	-3.47	236.05	1.94	256.8	Sgr
11 Sep 2022	19h53m40.00s	-23 05' 56.8"	34.602	33.973	14.5	128.0	1.3	-3.99	236.82	1.88	256.8	Sgr
12 Sep 2022	19h53m36.88s	-23 06' 07.3"	34.603	33.988	14.5	127.0	1.3	-4.51	237.58	1.82	256.8	Sgr
13 Sep 2022	19h53m33.86s	-23 06' 17.5"	34.604	34.002	14.5	126.0	1.3	-5.03	238.33	1.76	256.8	Sgr
14 Sep 2022	19h53m30.95s	-23 06' 27.4"	34.604	34.017	14.5	125.0	1.4	-5.56	239.09	1.70	256.7	Sgr
15 Sep 2022	19h53m28.14s	-23 06' 37.0"	34.605	34.032	14.5	124.1	1.4	-6.09	239.84	1.64	256.7	Sgr
16 Sep 2022	19h53m25.44s	-23 06' 46.3"	34.606	34.047	14.5	123.1	1.4	-6.63	240.59	1.57	256.7	Sgr
17 Sep 2022	19h53m22.85s	-23 06' 55.2"	34.606	34.062	14.5	122.1	1.4	-7.17	241.34	1.51	256.6	Sgr
18 Sep 2022	19h53m20.36s	-23 07' 03.8"	34.607	34.077	14.5	121.1	1.4	-7.71	242.08	1.44	256.6	Sgr
19 Sep 2022	19h53m17.98s	-23 07' 12.1"	34.608	34.093	14.5	120.1	1.4	-8.26	242.82	1.38	256.5	Sgr
20 Sep 2022	19h53m15.71s	-23 07' 20.0"	34.608	34.108	14.6	119.1	1.5	-8.80	243.56	1.31	256.4	Sgr
21 Sep 2022	19h53m13.56s	-23 07' 27.7"	34.609	34.124	14.6	118.2	1.5	-9.36	244.30	1.25	256.4	Sgr
22 Sep 2022	19h53m11.52s	-23 07' 34.9"	34.610	34.140	14.6	117.2	1.5	-9.91	245.04	1.18	256.3	Sgr
23 Sep 2022	19h53m09.59s	-23 07' 41.9"	34.610	34.156	14.6	116.2	1.5	-10.47	245.77	1.11	256.2	Sgr
24 Sep 2022	19h53m07.77s	-23 07' 48.5"	34.611	34.172	14.6	115.2	1.5	-11.03	246.51	1.04	256.0	Sgr
25 Sep 2022	19h53m06.07s	-23 07' 54.7"	34.612	34.188	14.6	114.2	1.5	-11.60	247.24	0.97	255.9	Sgr
26 Sep 2022	19h53m04.49s	-23 08' 00.6"	34.612	34.205	14.6	113.2	1.5	-12.16	247.97	0.90	255.7	Sgr
27 Sep 2022	19h53m03.03s	-23 08' 06.2"	34.613	34.221	14.6	112.2	1.5	-12.73	248.70	0.83	255.5	Sgr
28 Sep 2022	19h53m01.69s	-23 08' 11.5"	34.614	34.238	14.6	111.3	1.5	-13.31	249.43	0.76	255.2	Sgr
29 Sep 2022	19h53m00.46s	-23 08' 16.4"	34.614	34.254	14.6	110.3	1.6	-13.88	250.16	0.69	254.9	Sgr
30 Sep 2022	19h52m59.35s	-23 08' 20.9"	34.615	34.271	14.6	109.3	1.6	-14.46	250.89	0.62	254.5	Sgr
1 Okt 2022	19h52m58.37s	-23 08' 25.1"	34.616	34.288	14.6	108.3	1.6	-15.03	251.61	0.55	254.0	Sgr
2 Okt 2022	19h52m57.51s	-23 08' 29.0"	34.616	34.305	14.6	107.3	1.6	-15.62	252.34	0.48	253.3	Sgr
3 Okt 2022	19h52m56.76s	-23 08' 32.5"	34.617	34.322	14.6	106.3	1.6	-16.20	253.07	0.41	252.4	Sgr
4 Okt 2022	19h52m56.14s	-23 08' 35.7"	34.618	34.340	14.6	105.3	1.6	-16.78	253.79	0.33	251.0	Sgr
5 Okt 2022	19h52m55.65s	-23 08' 38.5"	34.618	34.357	14.6	104.4	1.6	-17.37	254.52	0.26	248.9	Sgr
6 Okt 2022	19h52m55.27s	-23 08' 41.0"	34.619	34.374	14.6	103.4	1.6	-17.96	255.24	0.19	245.2	Sgr
7 Okt 2022	19h52m55.02s	-23 08' 43.1"	34.620	34.392	14.6	102.4	1.6	-18.55	255.97	0.12	237.2	Sgr
8 Okt 2022	19h52m54.89s	-23 08' 44.9"	34.620	34.409	14.6	101.4	1.6	-19.14	256.70	0.06	210.8	Sgr
9 Okt 2022	19h52m54.88s	-23 08' 46.4"	34.621	34.427	14.6	100.4	1.6	-19.73	257.43	0.06	132.7	Sgr
10 Okt 2022	19h52m55.00s	-23 08' 47.5"	34.622	34.444	14.6	99.4	1.6	-20.32	258.15	0.11	101.8	Sgr
11 Okt 2022	19h52m55.24s	-23 08' 48.3"	34.622	34.462	14.6	98.4	1.6	-20.92	258.88	0.18	92.9	Sgr
12 Okt 2022	19h52m55.60s	-23 08' 48.7"	34.623	34.479	14.6	97.5	1.6	-21.52	259.61	0.26	88.9	Sgr
13 Okt 2022	19h52m56.09s	-23 08' 48.8"	34.624	34.497	14.6	96.5	1.6	-22.11	260.35	0.33	86.7	Sgr
14 Okt 2022	19h52m56.71s	-23 08' 48.6"	34.624	34.515	14.6	95.5	1.6	-22.71	261.08	0.40	85.3	Sgr
15 Okt 2022	19h52m57.44s	-23 08' 48.0"	34.625	34.533	14.6	94.5	1.6	-23.31	261.82	0.48	84.4	Sgr
16 Okt 2022	19h52m58.31s	-23 08' 47.1"	34.626	34.550	14.6	93.5	1.6	-23.91	262.55	0.55	83.6	Sgr
17 Okt 2022	19h52m59.29s	-23 08' 45.8"	34.626	34.568	14.6	92.5	1.6	-24.51	263.29	0.62	83.1	Sgr
18 Okt 2022	19h53m00.41s	-23 08' 44.3"	34.627	34.586	14.6	91.5	1.6	-25.11	264.03	0.70	82.7	Sgr
19 Okt 2022	19h53m01.65s	-23 08' 42.3"	34.628	34.604	14.6	90.6	1.6	-25.71	264.78	0.77	82.4	Sgr
20 Okt 2022	19h53m03.01s	-23 08' 40.1"	34.628	34.622	14.6	89.6	1.6	-26.31	265.53	0.84	82.1	Sgr
21 Okt 2022	19h53m04.50s	-23 08' 37.5"	34.629	34.640	14.6	88.6	1.6	-26.92	266.28	0.92	81.9	Sgr
22 Okt 2022	19h53m06.11s	-23 08' 34.6"	34.630	34.657	14.6	87.6	1.6	-27.52	267.03	0.99	81.7	Sgr
23 Okt 2022	19h53m07.85s	-23 08' 31.3"	34.630	34.675	14.6	86.6	1.6	-28.12	267.79	1.07	81.5	Sgr

EPHEMERIDE 2022 – PLUTO

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
24 Okt 2022	19h53m09.72s	-23 08' 27.7"	34.631	34.693	14.6	85.6	1.6	-28.72	268.55	1.14	81.4	Sgr
25 Okt 2022	19h53m11.71s	-23 08' 23.8"	34.632	34.711	14.6	84.6	1.6	-29.32	269.31	1.21	81.3	Sgr
26 Okt 2022	19h53m13.82s	-23 08' 19.6"	34.632	34.729	14.6	83.6	1.6	-29.92	270.08	1.29	81.2	Sgr
27 Okt 2022	19h53m16.06s	-23 08' 15.0"	34.633	34.746	14.6	82.6	1.6	-30.52	270.85	1.36	81.1	Sgr
28 Okt 2022	19h53m18.42s	-23 08' 10.2"	34.634	34.764	14.6	81.7	1.6	-31.12	271.63	1.43	81.0	Sgr
29 Okt 2022	19h53m20.91s	-23 08' 04.9"	34.635	34.782	14.6	80.7	1.6	-31.72	272.41	1.50	80.9	Sgr
30 Okt 2022	19h53m23.52s	-23 07' 59.4"	34.635	34.799	14.6	79.7	1.6	-32.32	273.20	1.58	80.9	Sgr
31 Okt 2022	19h53m26.25s	-23 07' 53.6"	34.636	34.817	14.6	78.7	1.6	-32.92	273.99	1.65	80.8	Sgr
1 Nov 2022	19h53m29.10s	-23 07' 47.4"	34.637	34.834	14.6	77.7	1.6	-33.52	274.79	1.72	80.7	Sgr
2 Nov 2022	19h53m32.07s	-23 07' 41.0"	34.637	34.852	14.6	76.7	1.6	-34.12	275.59	1.79	80.7	Sgr
3 Nov 2022	19h53m35.17s	-23 07' 34.2"	34.638	34.869	14.6	75.7	1.6	-34.71	276.40	1.86	80.7	Sgr
4 Nov 2022	19h53m38.38s	-23 07' 27.1"	34.639	34.886	14.6	74.7	1.6	-35.30	277.22	1.93	80.6	Sgr
5 Nov 2022	19h53m41.71s	-23 07' 19.7"	34.639	34.903	14.6	73.8	1.6	-35.90	278.04	2.00	80.6	Sgr
6 Nov 2022	19h53m45.16s	-23 07' 12.0"	34.640	34.921	14.6	72.8	1.6	-36.49	278.87	2.07	80.6	Sgr
7 Nov 2022	19h53m48.72s	-23 07' 04.1"	34.641	34.938	14.6	71.8	1.6	-37.08	279.71	2.14	80.5	Sgr
8 Nov 2022	19h53m52.40s	-23 06' 55.8"	34.641	34.955	14.6	70.8	1.5	-37.66	280.56	2.21	80.5	Sgr
9 Nov 2022	19h53m56.20s	-23 06' 47.2"	34.642	34.971	14.6	69.8	1.5	-38.25	281.41	2.27	80.5	Sgr
10 Nov 2022	19h54m00.11s	-23 06' 38.4"	34.643	34.988	14.6	68.8	1.5	-38.83	282.28	2.34	80.5	Sgr
11 Nov 2022	19h54m04.14s	-23 06' 29.2"	34.643	35.005	14.6	67.8	1.5	-39.41	283.15	2.41	80.5	Sgr
12 Nov 2022	19h54m08.28s	-23 06' 19.8"	34.644	35.021	14.6	66.8	1.5	-39.99	284.03	2.48	80.5	Sgr
13 Nov 2022	19h54m12.53s	-23 06' 10.1"	34.645	35.038	14.6	65.9	1.5	-40.57	284.92	2.54	80.4	Sgr
14 Nov 2022	19h54m16.89s	-23 06' 00.1"	34.645	35.054	14.6	64.9	1.5	-41.14	285.82	2.61	80.4	Sgr
15 Nov 2022	19h54m21.36s	-23 05' 49.8"	34.646	35.070	14.6	63.9	1.5	-41.71	286.73	2.67	80.4	Sgr
16 Nov 2022	19h54m25.95s	-23 05' 39.3"	34.647	35.086	14.6	62.9	1.5	-42.28	287.65	2.74	80.4	Sgr
17 Nov 2022	19h54m30.64s	-23 05' 28.5"	34.647	35.102	14.6	61.9	1.4	-42.84	288.59	2.80	80.4	Sgr
18 Nov 2022	19h54m35.44s	-23 05' 17.4"	34.648	35.118	14.6	60.9	1.4	-43.40	289.53	2.86	80.4	Sgr
19 Nov 2022	19h54m40.34s	-23 05' 06.1"	34.649	35.133	14.6	59.9	1.4	-43.96	290.49	2.92	80.4	Sgr
20 Nov 2022	19h54m45.36s	-23 04' 54.5"	34.649	35.149	14.6	58.9	1.4	-44.51	291.46	2.99	80.4	Sgr
21 Nov 2022	19h54m50.47s	-23 04' 42.6"	34.650	35.164	14.6	57.9	1.4	-45.06	292.44	3.05	80.4	Sgr
22 Nov 2022	19h54m55.69s	-23 04' 30.5"	34.651	35.179	14.6	57.0	1.4	-45.60	293.44	3.11	80.4	Sgr
23 Nov 2022	19h55m01.02s	-23 04' 18.2"	34.651	35.194	14.6	56.0	1.4	-46.14	294.45	3.17	80.4	Sgr
24 Nov 2022	19h55m06.44s	-23 04' 05.6"	34.652	35.209	14.6	55.0	1.3	-46.68	295.47	3.23	80.4	Sgr
25 Nov 2022	19h55m11.97s	-23 03' 52.7"	34.653	35.224	14.6	54.0	1.3	-47.21	296.51	3.29	80.4	Sgr
26 Nov 2022	19h55m17.59s	-23 03' 39.6"	34.653	35.238	14.6	53.0	1.3	-47.73	297.57	3.34	80.4	Sgr
27 Nov 2022	19h55m23.31s	-23 03' 26.3"	34.654	35.253	14.6	52.0	1.3	-48.25	298.64	3.40	80.4	Sgr
28 Nov 2022	19h55m29.12s	-23 03' 12.8"	34.655	35.267	14.6	51.0	1.3	-48.77	299.72	3.46	80.4	Sgr
29 Nov 2022	19h55m35.03s	-23 02' 59.0"	34.655	35.281	14.6	50.0	1.3	-49.28	300.83	3.51	80.4	Sgr
30 Nov 2022	19h55m41.03s	-23 02' 45.0"	34.656	35.294	14.6	49.0	1.2	-49.78	301.95	3.56	80.4	Sgr
1 Dez 2022	19h55m47.12s	-23 02' 30.8"	34.657	35.308	14.6	48.1	1.2	-50.28	303.09	3.62	80.4	Sgr
2 Dez 2022	19h55m53.30s	-23 02' 16.3"	34.657	35.321	14.6	47.1	1.2	-50.76	304.25	3.67	80.4	Sgr
3 Dez 2022	19h55m59.57s	-23 02' 01.7"	34.658	35.334	14.6	46.1	1.2	-51.25	305.42	3.72	80.4	Sgr
4 Dez 2022	19h56m05.92s	-23 01' 46.9"	34.659	35.347	14.6	45.1	1.2	-51.72	306.62	3.77	80.4	Sgr
5 Dez 2022	19h56m12.36s	-23 01' 31.8"	34.659	35.360	14.6	44.1	1.1	-52.19	307.83	3.82	80.4	Sgr
6 Dez 2022	19h56m18.88s	-23 01' 16.6"	34.660	35.373	14.6	43.1	1.1	-52.65	309.07	3.87	80.4	Sgr
7 Dez 2022	19h56m25.48s	-23 01' 01.2"	34.661	35.385	14.6	42.1	1.1	-53.10	310.33	3.91	80.4	Sgr
8 Dez 2022	19h56m32.16s	-23 00' 45.6"	34.661	35.397	14.6	41.1	1.1	-53.54	311.60	3.96	80.4	Sgr
9 Dez 2022	19h56m38.92s	-23 00' 29.8"	34.662	35.409	14.6	40.2	1.1	-53.97	312.90	4.01	80.4	Sgr
10 Dez 2022	19h56m45.76s	-23 00' 13.8"	34.663	35.421	14.6	39.2	1.0	-54.40	314.22	4.05	80.4	Sgr
11 Dez 2022	19h56m52.67s	-22 59' 57.7"	34.663	35.432	14.6	38.2	1.0	-54.81	315.57	4.09	80.4	Sgr
12 Dez 2022	19h56m59.66s	-22 59' 41.4"	34.664	35.443	14.6	37.2	1.0	-55.22	316.93	4.14	80.4	Sgr
13 Dez 2022	19h57m06.72s	-22 59' 24.9"	34.665	35.454	14.6	36.2	1.0	-55.61	318.32	4.18	80.4	Sgr
14 Dez 2022	19h57m13.85s	-22 59' 08.3"	34.665	35.465	14.6	35.2	0.9	-55.99	319.73	4.22	80.4	Sgr
15 Dez 2022	19h57m21.04s	-22 58' 51.5"	34.666	35.475	14.6	34.2	0.9	-56.36	321.16	4.26	80.5	Sgr
16 Dez 2022	19h57m28.31s	-22 58' 34.6"	34.667	35.486	14.6	33.3	0.9	-56.72	322.62	4.30	80.5	Sgr
17 Dez 2022	19h57m35.64s	-22 58' 17.5"	34.667	35.495	14.6	32.3	0.9	-57.07	324.10	4.34	80.5	Sgr
18 Dez 2022	19h57m43.03s	-22 58' 00.3"	34.668	35.505	14.6	31.3	0.8	-57.40	325.61	4.37	80.5	Sgr
19 Dez 2022	19h57m50.49s	-22 57' 43.0"	34.669	35.515	14.6	30.3	0.8	-57.72	327.13	4.41	80.5	Sgr
20 Dez 2022	19h57m58.01s	-22 57' 25.5"	34.669	35.524	14.6	29.3	0.8	-58.03	328.68	4.44	80.5	Sgr
21 Dez 2022	19h58m05.58s	-22 57' 07.9"	34.670	35.533	14.6	28.3	0.8	-58.33	330.25	4.48	80.5	Sgr
22 Dez 2022	19h58m13.22s	-22 56' 50.2"	34.671	35.542	14.6	27.3	0.7	-58.61	331.84	4.51	80.5	Sgr
23 Dez 2022	19h58m20.90s	-22 56' 32.3"	34.671	35.550	14.6	26.4	0.7	-58.87	333.46	4.54	80.5	Sgr
24 Dez 2022	19h58m28.65s	-22 56' 14.4"	34.672	35.558	14.6	25.4	0.7	-59.12	335.09	4.57	80.5	Sgr
25 Dez 2022	19h58m36.44s	-22 55' 56.3"	34.673	35.566	14.6	24.4	0.7	-59.36	336.75	4.60	80.5	Sgr
26 Dez 2022	19h58m44.28s	-22 55' 38.2"	34.673	35.574	14.6	23.4	0.6	-59.58	338.42	4.63	80.6	Sgr
27 Dez 2022	19h58m52.16s	-22 55' 19.9"	34.674	35.581	14.6	22.4	0.6	-59.78	340.11	4.66	80.6	Sgr
28 Dez 2022	19h59m00.09s	-22 55' 01.6"	34.675	35.588	14.6	21.4	0.6	-59.96	341.82	4.68	80.6	Sgr
29 Dez 2022	19h59m08.07s	-22 54' 43.2"	34.675	35.595	14.6	20.5	0.6	-60.13	343.55	4.71	80.6	Sgr
30 Dez 2022	19h59m16.08s	-22 54' 24.7"	34.676	35.602	14.6	19.5	0.5	-60.29	345.28	4.73	80.6	Sgr
31 Dez 2022	19h59m24.13s	-22 54' 06.1"	34.677	35.608	14.6	18.5	0.5	-60.42	347.04	4.75	80.6	Sgr
1 Jan 2023	19h59m32.22s	-22 53' 47.5"	34.677	35.614	14.6	17.5	0.5	-60.54	348.81	4.77	80.6	Sgr
2 Jan 2023	19h59m40.35s	-22 53' 28.8"	34.678	35.620	14.6	16.5	0.5	-60.64	350.58	4.79	80.6	Sgr