





Die Bahn des Zwergplaneten Pluto 2021

# EPHEMERIDE 2021 – PLUTO

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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1 Jan 2021	19h44m02.09s	-22 29' 58.3"	34.192	35.147	14.6	13.5	0.4	-60.49	357.05	4.92	82.4	Sgr
2 Jan 2021	19h44m10.48s	-22 29' 42.6"	34.192	35.152	14.6	12.5	0.4	-60.50	358.84	4.94	82.4	Sgr
3 Jan 2021	19h44m18.90s	-22 29' 26.8"	34.193	35.156	14.6	11.5	0.3	-60.50	0.62	4.95	82.4	Sgr
4 Jan 2021	19h44m27.34s	-22 29' 11.0"	34.194	35.160	14.6	10.5	0.3	-60.48	2.41	4.97	82.4	Sgr
5 Jan 2021	19h44m35.81s	-22 28' 55.1"	34.194	35.164	14.6	9.5	0.3	-60.44	4.19	4.98	82.4	Sgr
6 Jan 2021	19h44m44.29s	-22 28' 39.2"	34.195	35.167	14.6	8.6	0.2	-60.39	5.96	4.99	82.4	Sgr
7 Jan 2021	19h44m52.80s	-22 28' 23.2"	34.196	35.170	14.6	7.6	0.2	-60.31	7.73	5.00	82.4	Sgr
8 Jan 2021	19h45m01.32s	-22 28' 07.2"	34.196	35.173	14.6	6.6	0.2	-60.22	9.49	5.01	82.4	Sgr
9 Jan 2021	19h45m09.85s	-22 27' 51.2"	34.197	35.175	14.6	5.6	0.2	-60.11	11.24	5.02	82.4	Sgr
10 Jan 2021	19h45m18.39s	-22 27' 35.2"	34.198	35.178	14.6	4.7	0.1	-59.98	12.98	5.02	82.4	Sgr
11 Jan 2021	19h45m26.95s	-22 27' 19.1"	34.198	35.180	14.6	3.7	0.1	-59.84	14.71	5.03	82.4	Sgr
12 Jan 2021	19h45m35.51s	-22 27' 03.1"	34.199	35.181	14.6	2.8	0.1	-59.68	16.43	5.03	82.4	Sgr
13 Jan 2021	19h45m44.07s	-22 26' 47.0"	34.200	35.183	14.6	2.0	0.1	-59.50	18.13	5.03	82.4	Sgr
14 Jan 2021	19h45m52.64s	-22 26' 30.9"	34.200	35.184	14.6	1.3	0.0	-59.31	19.81	5.03	82.4	Sgr
15 Jan 2021	19h46m01.21s	-22 26' 14.9"	34.201	35.184	14.6	1.3	0.0	-59.09	21.47	5.03	82.4	Sgr
16 Jan 2021	19h46m09.78s	-22 25' 58.8"	34.202	35.185	14.6	1.8	0.1	-58.87	23.12	5.03	82.4	Sgr
17 Jan 2021	19h46m18.34s	-22 25' 42.8"	34.202	35.185	14.6	2.7	0.1	-58.63	24.75	5.03	82.4	Sgr
18 Jan 2021	19h46m26.90s	-22 25' 26.8"	34.203	35.185	14.6	3.6	0.1	-58.37	26.36	5.02	82.4	Sgr
19 Jan 2021	19h46m35.45s	-22 25' 10.8"	34.204	35.184	14.6	4.5	0.1	-58.10	27.94	5.02	82.5	Sgr
20 Jan 2021	19h46m43.99s	-22 24' 54.9"	34.204	35.184	14.6	5.5	0.2	-57.81	29.51	5.01	82.5	Sgr
21 Jan 2021	19h46m52.52s	-22 24' 39.0"	34.205	35.183	14.6	6.4	0.2	-57.51	31.05	5.00	82.5	Sgr
22 Jan 2021	19h47m01.04s	-22 24' 23.1"	34.206	35.181	14.6	7.4	0.2	-57.20	32.57	4.99	82.5	Sgr
23 Jan 2021	19h47m09.54s	-22 24' 07.3"	34.206	35.180	14.6	8.4	0.2	-56.87	34.07	4.98	82.5	Sgr
24 Jan 2021	19h47m18.02s	-22 23' 51.5"	34.207	35.178	14.6	9.3	0.3	-56.53	35.55	4.97	82.5	Sgr
25 Jan 2021	19h47m26.48s	-22 23' 35.8"	34.208	35.176	14.6	10.3	0.3	-56.18	37.01	4.96	82.5	Sgr
26 Jan 2021	19h47m34.92s	-22 23' 20.2"	34.208	35.173	14.6	11.3	0.3	-55.82	38.44	4.95	82.5	Sgr
27 Jan 2021	19h47m43.33s	-22 23' 04.7"	34.209	35.170	14.6	12.3	0.4	-55.45	39.85	4.93	82.6	Sgr
28 Jan 2021	19h47m51.72s	-22 22' 49.2"	34.210	35.167	14.6	13.3	0.4	-55.06	41.24	4.92	82.6	Sgr
29 Jan 2021	19h48m00.08s	-22 22' 33.8"	34.210	35.164	14.6	14.2	0.4	-54.67	42.60	4.90	82.6	Sgr
30 Jan 2021	19h48m08.41s	-22 22' 18.5"	34.211	35.160	14.6	15.2	0.4	-54.26	43.94	4.88	82.6	Sgr
31 Jan 2021	19h48m16.72s	-22 22' 03.2"	34.211	35.156	14.6	16.2	0.5	-53.85	45.27	4.86	82.6	Sgr
1 Feb 2021	19h48m24.98s	-22 21' 48.1"	34.212	35.152	14.6	17.2	0.5	-53.42	46.57	4.84	82.7	Sgr
2 Feb 2021	19h48m33.22s	-22 21' 33.1"	34.213	35.148	14.6	18.2	0.5	-52.99	47.84	4.82	82.7	Sgr
3 Feb 2021	19h48m41.42s	-22 21' 18.2"	34.213	35.143	14.6	19.1	0.5	-52.54	49.10	4.80	82.7	Sgr
4 Feb 2021	19h48m49.57s	-22 21' 03.4"	34.214	35.138	14.6	20.1	0.6	-52.09	50.34	4.77	82.7	Sgr
5 Feb 2021	19h48m57.69s	-22 20' 48.7"	34.215	35.133	14.6	21.1	0.6	-51.63	51.55	4.75	82.7	Sgr
6 Feb 2021	19h49m05.77s	-22 20' 34.1"	34.215	35.127	14.6	22.1	0.6	-51.17	52.75	4.72	82.8	Sgr
7 Feb 2021	19h49m13.80s	-22 20' 19.7"	34.216	35.121	14.6	23.1	0.6	-50.69	53.93	4.70	82.8	Sgr
8 Feb 2021	19h49m21.79s	-22 20' 05.4"	34.217	35.115	14.6	24.0	0.7	-50.21	55.09	4.67	82.8	Sgr
9 Feb 2021	19h49m29.72s	-22 19' 51.2"	34.217	35.109	14.6	25.0	0.7	-49.72	56.23	4.64	82.9	Sgr
10 Feb 2021	19h49m37.61s	-22 19' 37.2"	34.218	35.102	14.6	26.0	0.7	-49.23	57.35	4.61	82.9	Sgr
11 Feb 2021	19h49m45.45s	-22 19' 23.3"	34.219	35.095	14.6	27.0	0.7	-48.73	58.46	4.58	82.9	Sgr
12 Feb 2021	19h49m53.23s	-22 19' 09.6"	34.219	35.088	14.6	28.0	0.8	-48.22	59.55	4.54	83.0	Sgr
13 Feb 2021	19h50m00.95s	-22 18' 56.0"	34.220	35.081	14.6	28.9	0.8	-47.71	60.62	4.51	83.0	Sgr
14 Feb 2021	19h50m08.61s	-22 18' 42.6"	34.221	35.073	14.6	29.9	0.8	-47.19	61.68	4.47	83.0	Sgr
15 Feb 2021	19h50m16.22s	-22 18' 29.4"	34.221	35.065	14.6	30.9	0.8	-46.67	62.72	4.44	83.1	Sgr
16 Feb 2021	19h50m23.76s	-22 18' 16.3"	34.222	35.057	14.6	31.9	0.9	-46.14	63.74	4.40	83.1	Sgr
17 Feb 2021	19h50m31.24s	-22 18' 03.4"	34.223	35.049	14.6	32.9	0.9	-45.60	64.76	4.36	83.1	Sgr
18 Feb 2021	19h50m38.66s	-22 17' 50.7"	34.223	35.040	14.6	33.8	0.9	-45.07	65.75	4.32	83.2	Sgr
19 Feb 2021	19h50m46.01s	-22 17' 38.2"	34.224	35.031	14.6	34.8	0.9	-44.53	66.74	4.28	83.2	Sgr
20 Feb 2021	19h50m53.28s	-22 17' 25.9"	34.225	35.022	14.6	35.8	1.0	-43.98	67.71	4.24	83.3	Sgr
21 Feb 2021	19h51m00.49s	-22 17' 13.8"	34.225	35.012	14.6	36.8	1.0	-43.43	68.67	4.20	83.3	Sgr
22 Feb 2021	19h51m07.63s	-22 17' 01.9"	34.226	35.003	14.6	37.8	1.0	-42.88	69.61	4.16	83.4	Sgr
23 Feb 2021	19h51m14.69s	-22 16' 50.2"	34.227	34.993	14.6	38.7	1.0	-42.32	70.55	4.11	83.4	Sgr
24 Feb 2021	19h51m21.68s	-22 16' 38.7"	34.227	34.983	14.6	39.7	1.1	-41.76	71.47	4.07	83.5	Sgr
25 Feb 2021	19h51m28.59s	-22 16' 27.4"	34.228	34.972	14.6	40.7	1.1	-41.20	72.39	4.02	83.5	Sgr
26 Feb 2021	19h51m35.42s	-22 16' 16.4"	34.229	34.962	14.6	41.7	1.1	-40.63	73.29	3.97	83.6	Sgr
27 Feb 2021	19h51m42.18s	-22 16' 05.6"	34.229	34.951	14.6	42.6	1.1	-40.06	74.18	3.93	83.7	Sgr
28 Feb 2021	19h51m48.85s	-22 15' 55.0"	34.230	34.940	14.6	43.6	1.1	-39.49	75.06	3.88	83.7	Sgr
1 Mar 2021	19h51m55.44s	-22 15' 44.6"	34.231	34.929	14.6	44.6	1.2	-38.91	75.93	3.83	83.8	Sgr
2 Mar 2021	19h52m01.95s	-22 15' 34.5"	34.231	34.918	14.6	45.6	1.2	-38.34	76.80	3.78	83.9	Sgr
3 Mar 2021	19h52m08.37s	-22 15' 24.6"	34.232	34.906	14.6	46.6	1.2	-37.76	77.65	3.73	84.0	Sgr
4 Mar 2021	19h52m14.71s	-22 15' 15.0"	34.233	34.894	14.6	47.5	1.2	-37.18	78.50	3.68	84.0	Sgr
5 Mar 2021	19h52m20.96s	-22 15' 05.6"	34.233	34.882	14.6	48.5	1.2	-36.60	79.34	3.62	84.1	Sgr
6 Mar 2021	19h52m27.12s	-22 14' 56.4"	34.234	34.870	14.6	49.5	1.3	-36.01	80.17	3.57	84.2	Sgr
7 Mar 2021	19h52m33.19s	-22 14' 47.6"	34.235	34.858	14.6	50.5	1.3	-35.43	80.99	3.52	84.3	Sgr
8 Mar 2021	19h52m39.17s	-22 14' 38.9"	34.235	34.845	14.6	51.4	1.3	-34.84	81.81	3.46	84.4	Sgr
9 Mar 2021	19h52m45.05s	-22 14' 30.6"	34.236	34.832	14.6	52.4	1.3	-34.25	82.62	3.40	84.5	Sgr
10 Mar 2021	19h52m50.84s	-22 14' 22.5"	34.237	34.819	14.6	53.4	1.3	-33.66	83.42	3.35	84.6	Sgr
11 Mar 2021	19h52m56.53s	-22 14' 14.7"	34.237	34.806	14.6	54.4	1.4	-33.07	84.22	3.29	84.7	Sgr
12 Mar 2021	19h53m02.12s	-22 14' 07.2"	34.238	34.793	14.6	55.4	1.4	-32.48	85.01	3.23	84.8	Sgr
13 Mar 2021	19h53m07.62s	-22 13' 59.9"	34.239	34.780	14.6	56.3	1.4	-31.88	85.80	3.17	84.9	Sgr
14 Mar 2021	19h53m13.01s	-22 13' 53.0"	34.239	34.766	14.6	57.3	1.4	-31.29	86.58	3.11	85.0	Sgr
15 Mar 2021	19h53m18.30s	-22 13' 46.3"	34.240	34.752	14.6	58.3	1.4	-30.69	87.36	3.05	85.2	Sgr

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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16 Mar 2021	19h53m23.49s	-22 13' 39.9"	34.241	34.738	14.6	59.3	1.4	-30.10	88.13	2.99	85.3	Sgr
17 Mar 2021	19h53m28.58s	-22 13' 33.8"	34.241	34.724	14.6	60.2	1.4	-29.50	88.89	2.93	85.5	Sgr
18 Mar 2021	19h53m33.55s	-22 13' 28.0"	34.242	34.710	14.6	61.2	1.5	-28.91	89.66	2.87	85.6	Sgr
19 Mar 2021	19h53m38.43s	-22 13' 22.5"	34.243	34.696	14.6	62.2	1.5	-28.31	90.41	2.80	85.8	Sgr
20 Mar 2021	19h53m43.19s	-22 13' 17.4"	34.243	34.681	14.6	63.2	1.5	-27.71	91.17	2.74	85.9	Sgr
21 Mar 2021	19h53m47.85s	-22 13' 12.5"	34.244	34.667	14.6	64.1	1.5	-27.12	91.92	2.67	86.1	Sgr
22 Mar 2021	19h53m52.40s	-22 13' 07.9"	34.245	34.652	14.6	65.1	1.5	-26.52	92.67	2.61	86.3	Sgr
23 Mar 2021	19h53m56.83s	-22 13' 03.6"	34.245	34.637	14.6	66.1	1.5	-25.93	93.41	2.54	86.5	Sgr
24 Mar 2021	19h54m01.16s	-22 12' 59.7"	34.246	34.622	14.6	67.1	1.5	-25.33	94.16	2.48	86.7	Sgr
25 Mar 2021	19h54m05.38s	-22 12' 56.1"	34.247	34.607	14.6	68.0	1.5	-24.73	94.90	2.41	86.9	Sgr
26 Mar 2021	19h54m09.48s	-22 12' 52.8"	34.247	34.592	14.6	69.0	1.6	-24.14	95.63	2.35	87.2	Sgr
27 Mar 2021	19h54m13.47s	-22 12' 49.8"	34.248	34.577	14.6	70.0	1.6	-23.54	96.37	2.28	87.4	Sgr
28 Mar 2021	19h54m17.34s	-22 12' 47.1"	34.249	34.561	14.6	71.0	1.6	-22.95	97.10	2.21	87.7	Sgr
29 Mar 2021	19h54m21.11s	-22 12' 44.7"	34.249	34.546	14.6	71.9	1.6	-22.36	97.83	2.14	88.0	Sgr
30 Mar 2021	19h54m24.75s	-22 12' 42.7"	34.250	34.530	14.6	72.9	1.6	-21.76	98.56	2.08	88.3	Sgr
31 Mar 2021	19h54m28.28s	-22 12' 41.0"	34.251	34.514	14.6	73.9	1.6	-21.17	99.29	2.01	88.6	Sgr
1 Apr 2021	19h54m31.70s	-22 12' 39.7"	34.251	34.499	14.6	74.9	1.6	-20.58	100.01	1.94	89.0	Sgr
2 Apr 2021	19h54m35.00s	-22 12' 38.6"	34.252	34.483	14.6	75.8	1.6	-19.99	100.74	1.87	89.4	Sgr
3 Apr 2021	19h54m38.18s	-22 12' 37.9"	34.253	34.467	14.6	76.8	1.6	-19.40	101.46	1.80	89.8	Sgr
4 Apr 2021	19h54m41.24s	-22 12' 37.6"	34.253	34.451	14.5	77.8	1.6	-18.82	102.19	1.73	90.2	Sgr
5 Apr 2021	19h54m44.18s	-22 12' 37.5"	34.254	34.435	14.5	78.8	1.6	-18.23	102.91	1.66	90.7	Sgr
6 Apr 2021	19h54m47.01s	-22 12' 37.8"	34.255	34.419	14.5	79.7	1.6	-17.65	103.63	1.59	91.3	Sgr
7 Apr 2021	19h54m49.71s	-22 12' 38.5"	34.255	34.403	14.5	80.7	1.7	-17.06	104.35	1.52	91.9	Sgr
8 Apr 2021	19h54m52.29s	-22 12' 39.4"	34.256	34.387	14.5	81.7	1.7	-16.48	105.07	1.45	92.5	Sgr
9 Apr 2021	19h54m54.75s	-22 12' 40.7"	34.257	34.370	14.5	82.6	1.7	-15.90	105.80	1.38	93.2	Sgr
10 Apr 2021	19h54m57.08s	-22 12' 42.4"	34.257	34.354	14.5	83.6	1.7	-15.32	106.52	1.31	94.0	Sgr
11 Apr 2021	19h54m59.30s	-22 12' 44.4"	34.258	34.338	14.5	84.6	1.7	-14.75	107.24	1.24	94.9	Sgr
12 Apr 2021	19h55m01.39s	-22 12' 46.7"	34.258	34.321	14.5	85.6	1.7	-14.18	107.96	1.17	95.9	Sgr
13 Apr 2021	19h55m03.36s	-22 12' 49.4"	34.259	34.305	14.5	86.5	1.7	-13.60	108.69	1.10	97.0	Sgr
14 Apr 2021	19h55m05.20s	-22 12' 52.5"	34.260	34.289	14.5	87.5	1.7	-13.03	109.41	1.03	98.3	Sgr
15 Apr 2021	19h55m06.92s	-22 12' 55.8"	34.260	34.272	14.5	88.5	1.7	-12.47	110.13	0.96	99.8	Sgr
16 Apr 2021	19h55m08.52s	-22 12' 59.5"	34.261	34.256	14.5	89.5	1.7	-11.90	110.86	0.89	101.5	Sgr
17 Apr 2021	19h55m09.99s	-22 13' 03.6"	34.262	34.240	14.5	90.4	1.7	-11.34	111.59	0.82	103.4	Sgr
18 Apr 2021	19h55m11.34s	-22 13' 08.0"	34.262	34.223	14.5	91.4	1.7	-10.78	112.32	0.76	105.7	Sgr
19 Apr 2021	19h55m12.56s	-22 13' 12.7"	34.263	34.207	14.5	92.4	1.7	-10.22	113.04	0.69	108.5	Sgr
20 Apr 2021	19h55m13.66s	-22 13' 17.8"	34.264	34.190	14.5	93.4	1.7	-9.67	113.78	0.63	111.8	Sgr
21 Apr 2021	19h55m14.64s	-22 13' 23.3"	34.264	34.174	14.5	94.3	1.7	-9.12	114.51	0.57	115.8	Sgr
22 Apr 2021	19h55m15.49s	-22 13' 29.0"	34.265	34.158	14.5	95.3	1.7	-8.57	115.24	0.51	120.8	Sgr
23 Apr 2021	19h55m16.22s	-22 13' 35.1"	34.266	34.141	14.5	96.3	1.7	-8.03	115.98	0.46	126.9	Sgr
24 Apr 2021	19h55m16.83s	-22 13' 41.6"	34.266	34.125	14.5	97.2	1.7	-7.48	116.72	0.41	134.4	Sgr
25 Apr 2021	19h55m17.31s	-22 13' 48.3"	34.267	34.109	14.5	98.2	1.7	-6.95	117.46	0.38	143.5	Sgr
26 Apr 2021	19h55m17.67s	-22 13' 55.5"	34.268	34.093	14.5	99.2	1.7	-6.41	118.20	0.35	154.3	Sgr
27 Apr 2021	19h55m17.91s	-22 14' 02.9"	34.268	34.077	14.5	100.2	1.7	-5.88	118.95	0.34	166.1	Sgr
28 Apr 2021	19h55m18.03s	-22 14' 10.7"	34.269	34.061	14.5	101.1	1.7	-5.35	119.69	0.35	178.2	Sgr
29 Apr 2021	19h55m18.02s	-22 14' 18.8"	34.270	34.045	14.5	102.1	1.6	-4.83	120.44	0.36	189.6	Sgr
30 Apr 2021	19h55m17.89s	-22 14' 27.2"	34.270	34.029	14.5	103.1	1.6	-4.31	121.20	0.39	199.5	Sgr
1 Mai 2021	19h55m17.64s	-22 14' 36.0"	34.271	34.013	14.5	104.0	1.6	-3.79	121.95	0.44	207.7	Sgr
2 Mai 2021	19h55m17.27s	-22 14' 45.1"	34.272	33.997	14.5	105.0	1.6	-3.28	122.71	0.48	214.4	Sgr
3 Mai 2021	19h55m16.78s	-22 14' 54.5"	34.272	33.981	14.5	106.0	1.6	-2.77	123.47	0.54	219.8	Sgr
4 Mai 2021	19h55m16.17s	-22 15' 04.2"	34.273	33.965	14.5	107.0	1.6	-2.27	124.24	0.59	224.2	Sgr
5 Mai 2021	19h55m15.44s	-22 15' 14.3"	34.274	33.950	14.5	107.9	1.6	-1.77	125.01	0.65	227.8	Sgr
6 Mai 2021	19h55m14.58s	-22 15' 24.7"	34.274	33.934	14.5	108.9	1.6	-1.27	125.78	0.72	230.8	Sgr
7 Mai 2021	19h55m13.61s	-22 15' 35.4"	34.275	33.919	14.5	109.9	1.6	-0.78	126.55	0.78	233.3	Sgr
8 Mai 2021	19h55m12.52s	-22 15' 46.4"	34.276	33.904	14.5	110.8	1.6	-0.30	127.33	0.84	235.4	Sgr
9 Mai 2021	19h55m11.31s	-22 15' 57.7"	34.276	33.888	14.5	111.8	1.6	0.18	128.11	0.91	237.3	Sgr
10 Mai 2021	19h55m09.98s	-22 16' 09.3"	34.277	33.873	14.5	112.8	1.6	0.66	128.89	0.97	238.8	Sgr
11 Mai 2021	19h55m08.53s	-22 16' 21.3"	34.278	33.858	14.5	113.8	1.5	1.13	129.68	1.04	240.2	Sgr
12 Mai 2021	19h55m06.97s	-22 16' 33.5"	34.278	33.843	14.5	114.7	1.5	1.59	130.47	1.10	241.4	Sgr
13 Mai 2021	19h55m05.29s	-22 16' 46.0"	34.279	33.829	14.5	115.7	1.5	2.05	131.27	1.17	242.4	Sgr
14 Mai 2021	19h55m03.49s	-22 16' 58.9"	34.280	33.814	14.5	116.7	1.5	2.51	132.07	1.23	243.4	Sgr
15 Mai 2021	19h55m01.59s	-22 17' 12.0"	34.280	33.799	14.5	117.7	1.5	2.96	132.87	1.30	244.2	Sgr
16 Mai 2021	19h54m59.57s	-22 17' 25.4"	34.281	33.785	14.5	118.6	1.5	3.40	133.68	1.36	244.9	Sgr
17 Mai 2021	19h54m57.43s	-22 17' 39.1"	34.282	33.771	14.5	119.6	1.5	3.84	134.49	1.42	245.6	Sgr
18 Mai 2021	19h54m55.19s	-22 17' 53.1"	34.282	33.757	14.5	120.6	1.5	4.27	135.31	1.49	246.2	Sgr
19 Mai 2021	19h54m52.83s	-22 18' 07.4"	34.283	33.743	14.5	121.5	1.4	4.69	136.13	1.55	246.8	Sgr
20 Mai 2021	19h54m50.37s	-22 18' 21.9"	34.284	33.729	14.5	122.5	1.4	5.11	136.95	1.61	247.3	Sgr
21 Mai 2021	19h54m47.80s	-22 18' 36.7"	34.284	33.716	14.5	123.5	1.4	5.52	137.78	1.68	247.8	Sgr
22 Mai 2021	19h54m45.13s	-22 18' 51.8"	34.285	33.702	14.5	124.5	1.4	5.93	138.61	1.74	248.2	Sgr
23 Mai 2021	19h54m42.34s	-22 19' 07.2"	34.286	33.689	14.5	125.4	1.4	6.33	139.45	1.80	248.6	Sgr
24 Mai 2021	19h54m39.46s	-22 19' 22.7"	34.286	33.676	14.5	126.4	1.4	6.72	140.29	1.86	249.0	Sgr
25 Mai 2021	19h54m36.47s	-22 19' 38.6"	34.287	33.663	14.5	127.4	1.3	7.11	141.14	1.92	249.4	Sgr
26 Mai 2021	19h54m33.38s	-22 19' 54.7"	34.288	33.650	14.5	128.3	1.3	7.48	141.99	1.97	249.7	Sgr
27 Mai 2021	19h54m30.19s	-22 20' 11.0"	34.288	33.637	14.5	129.3	1.3	7.86	142.84	2.03	250.0	Sgr
28 Mai 2021	19h54m26.90s	-22 20' 27.6"	34.289	33.625	14.5	130.3	1.3	8.22	143.70	2.09	250.3	Sgr

# EPHEMERIDE 2021 – PLUTO

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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29 Mai 2021	19h54m23.52s	-22 20' 44.4"	34.290	33.613	14.5	131.3	1.3	8.58	144.56	2.15	250.6	Sgr
30 Mai 2021	19h54m20.03s	-22 21' 01.5"	34.290	33.601	14.5	132.2	1.3	8.93	145.43	2.20	250.8	Sgr
31 Mai 2021	19h54m16.45s	-22 21' 18.7"	34.291	33.589	14.5	133.2	1.2	9.27	146.30	2.26	251.1	Sgr
1 Jun 2021	19h54m12.78s	-22 21' 36.2"	34.292	33.577	14.5	134.2	1.2	9.60	147.18	2.31	251.3	Sgr
2 Jun 2021	19h54m09.01s	-22 21' 53.9"	34.292	33.566	14.5	135.2	1.2	9.93	148.06	2.37	251.5	Sgr
3 Jun 2021	19h54m05.15s	-22 22' 11.8"	34.293	33.555	14.5	136.1	1.2	10.25	148.94	2.42	251.7	Sgr
4 Jun 2021	19h54m01.20s	-22 22' 30.0"	34.294	33.543	14.5	137.1	1.2	10.56	149.83	2.47	251.9	Sgr
5 Jun 2021	19h53m57.16s	-22 22' 48.3"	34.294	33.533	14.5	138.1	1.1	10.86	150.72	2.52	252.1	Sgr
6 Jun 2021	19h53m53.04s	-22 23' 06.8"	34.295	33.522	14.5	139.0	1.1	11.15	151.62	2.57	252.3	Sgr
7 Jun 2021	19h53m48.82s	-22 23' 25.5"	34.296	33.512	14.5	140.0	1.1	11.44	152.52	2.62	252.5	Sgr
8 Jun 2021	19h53m44.53s	-22 23' 44.4"	34.296	33.502	14.5	141.0	1.1	11.71	153.42	2.67	252.6	Sgr
9 Jun 2021	19h53m40.15s	-22 24' 03.5"	34.297	33.492	14.5	142.0	1.0	11.98	154.33	2.72	252.8	Sgr
10 Jun 2021	19h53m35.69s	-22 24' 22.8"	34.298	33.482	14.5	142.9	1.0	12.24	155.24	2.76	252.9	Sgr
11 Jun 2021	19h53m31.14s	-22 24' 42.2"	34.298	33.472	14.5	143.9	1.0	12.49	156.16	2.81	253.1	Sgr
12 Jun 2021	19h53m26.53s	-22 25' 01.8"	34.299	33.463	14.5	144.9	1.0	12.73	157.08	2.85	253.2	Sgr
13 Jun 2021	19h53m21.83s	-22 25' 21.5"	34.300	33.454	14.5	145.9	1.0	12.96	158.00	2.90	253.3	Sgr
14 Jun 2021	19h53m17.07s	-22 25' 41.4"	34.300	33.446	14.5	146.8	0.9	13.18	158.93	2.94	253.5	Sgr
15 Jun 2021	19h53m12.23s	-22 26' 01.5"	34.301	33.437	14.5	147.8	0.9	13.39	159.86	2.98	253.6	Sgr
16 Jun 2021	19h53m07.32s	-22 26' 21.7"	34.302	33.429	14.5	148.8	0.9	13.60	160.79	3.02	253.7	Sgr
17 Jun 2021	19h53m02.34s	-22 26' 42.0"	34.302	33.421	14.5	149.8	0.9	13.79	161.73	3.06	253.8	Sgr
18 Jun 2021	19h52m57.30s	-22 27' 02.4"	34.303	33.413	14.5	150.7	0.8	13.97	162.67	3.10	253.9	Sgr
19 Jun 2021	19h52m52.19s	-22 27' 23.0"	34.304	33.406	14.5	151.7	0.8	14.15	163.61	3.13	254.0	Sgr
20 Jun 2021	19h52m47.02s	-22 27' 43.7"	34.304	33.398	14.5	152.7	0.8	14.31	164.56	3.17	254.1	Sgr
21 Jun 2021	19h52m41.80s	-22 28' 04.5"	34.305	33.391	14.5	153.6	0.8	14.47	165.51	3.20	254.2	Sgr
22 Jun 2021	19h52m36.51s	-22 28' 25.3"	34.306	33.385	14.5	154.6	0.7	14.61	166.46	3.23	254.3	Sgr
23 Jun 2021	19h52m31.17s	-22 28' 46.3"	34.306	33.378	14.5	155.6	0.7	14.75	167.41	3.26	254.4	Sgr
24 Jun 2021	19h52m25.77s	-22 29' 07.4"	34.307	33.372	14.5	156.6	0.7	14.87	168.37	3.29	254.5	Sgr
25 Jun 2021	19h52m20.32s	-22 29' 28.6"	34.308	33.366	14.5	157.5	0.6	14.99	169.32	3.32	254.6	Sgr
26 Jun 2021	19h52m14.82s	-22 29' 49.8"	34.308	33.360	14.5	158.5	0.6	15.09	170.28	3.35	254.7	Sgr
27 Jun 2021	19h52m09.27s	-22 30' 11.1"	34.309	33.355	14.5	159.5	0.6	15.19	171.24	3.38	254.7	Sgr
28 Jun 2021	19h52m03.68s	-22 30' 32.5"	34.310	33.350	14.5	160.5	0.6	15.27	172.21	3.41	254.8	Sgr
29 Jun 2021	19h51m58.04s	-22 30' 53.9"	34.310	33.345	14.5	161.4	0.5	15.34	173.17	3.43	254.9	Sgr
30 Jun 2021	19h51m52.36s	-22 31' 15.4"	34.311	33.340	14.5	162.4	0.5	15.40	174.13	3.45	255.0	Sgr
1 Jul 2021	19h51m46.63s	-22 31' 37.0"	34.312	33.336	14.5	163.4	0.5	15.46	175.10	3.48	255.0	Sgr
2 Jul 2021	19h51m40.87s	-22 31' 58.6"	34.312	33.332	14.5	164.3	0.5	15.50	176.07	3.50	255.1	Sgr
3 Jul 2021	19h51m35.07s	-22 32' 20.2"	34.313	33.328	14.5	165.3	0.4	15.53	177.04	3.52	255.2	Sgr
4 Jul 2021	19h51m29.24s	-22 32' 41.8"	34.314	33.325	14.5	166.3	0.4	15.55	178.00	3.54	255.2	Sgr
5 Jul 2021	19h51m23.37s	-22 33' 03.5"	34.314	33.322	14.5	167.3	0.4	15.56	178.97	3.55	255.3	Sgr
6 Jul 2021	19h51m17.47s	-22 33' 25.2"	34.315	33.319	14.5	168.2	0.3	15.56	179.94	3.57	255.4	Sgr
7 Jul 2021	19h51m11.55s	-22 33' 46.9"	34.316	33.316	14.5	169.2	0.3	15.55	180.91	3.59	255.4	Sgr
8 Jul 2021	19h51m05.60s	-22 34' 08.6"	34.316	33.314	14.5	170.2	0.3	15.53	181.88	3.60	255.5	Sgr
9 Jul 2021	19h50m59.62s	-22 34' 30.3"	34.317	33.312	14.5	171.1	0.3	15.50	182.85	3.61	255.5	Sgr
10 Jul 2021	19h50m53.62s	-22 34' 52.0"	34.318	33.310	14.5	172.1	0.2	15.46	183.81	3.62	255.6	Sgr
11 Jul 2021	19h50m47.61s	-22 35' 13.7"	34.318	33.309	14.5	173.0	0.2	15.40	184.78	3.63	255.7	Sgr
12 Jul 2021	19h50m41.58s	-22 35' 35.4"	34.319	33.308	14.5	174.0	0.2	15.34	185.75	3.64	255.7	Sgr
13 Jul 2021	19h50m35.53s	-22 35' 57.0"	34.319	33.307	14.5	174.9	0.2	15.27	186.71	3.65	255.8	Sgr
14 Jul 2021	19h50m29.48s	-22 36' 18.7"	34.320	33.306	14.5	175.8	0.1	15.18	187.68	3.65	255.8	Sgr
15 Jul 2021	19h50m23.41s	-22 36' 40.2"	34.321	33.306	14.5	176.7	0.1	15.09	188.64	3.65	255.9	Sgr
16 Jul 2021	19h50m17.34s	-22 37' 01.7"	34.321	33.306	14.5	177.5	0.1	14.98	189.60	3.66	255.9	Sgr
17 Jul 2021	19h50m11.26s	-22 37' 23.2"	34.322	33.306	14.5	178.2	0.1	14.87	190.56	3.66	255.9	Sgr
18 Jul 2021	19h50m05.18s	-22 37' 44.6"	34.323	33.307	14.5	178.4	0.0	14.74	191.51	3.66	256.0	Sgr
19 Jul 2021	19h49m59.10s	-22 38' 06.0"	34.323	33.308	14.5	178.1	0.1	14.61	192.47	3.65	256.0	Sgr
20 Jul 2021	19h49m53.02s	-22 38' 27.2"	34.324	33.309	14.5	177.4	0.1	14.46	193.42	3.65	256.1	Sgr
21 Jul 2021	19h49m46.95s	-22 38' 48.4"	34.325	33.310	14.5	176.6	0.1	14.31	194.37	3.65	256.1	Sgr
22 Jul 2021	19h49m40.88s	-22 39' 09.6"	34.325	33.312	14.5	175.7	0.1	14.14	195.32	3.64	256.2	Sgr
23 Jul 2021	19h49m34.82s	-22 39' 30.6"	34.326	33.314	14.5	174.8	0.2	13.97	196.26	3.63	256.2	Sgr
24 Jul 2021	19h49m28.77s	-22 39' 51.5"	34.327	33.317	14.5	173.9	0.2	13.78	197.21	3.63	256.2	Sgr
25 Jul 2021	19h49m22.74s	-22 40' 12.4"	34.327	33.319	14.5	172.9	0.2	13.58	198.14	3.62	256.3	Sgr
26 Jul 2021	19h49m16.72s	-22 40' 33.1"	34.328	33.322	14.5	172.0	0.2	13.38	199.08	3.61	256.3	Sgr
27 Jul 2021	19h49m10.72s	-22 40' 53.7"	34.329	33.325	14.5	171.0	0.3	13.17	200.01	3.60	256.3	Sgr
28 Jul 2021	19h49m04.73s	-22 41' 14.2"	34.329	33.329	14.5	170.0	0.3	12.94	200.94	3.58	256.4	Sgr
29 Jul 2021	19h48m58.77s	-22 41' 34.6"	34.330	33.333	14.5	169.1	0.3	12.71	201.87	3.57	256.4	Sgr
30 Jul 2021	19h48m52.83s	-22 41' 54.9"	34.331	33.337	14.5	168.1	0.3	12.47	202.79	3.55	256.4	Sgr
31 Jul 2021	19h48m46.91s	-22 42' 15.0"	34.331	33.341	14.5	167.1	0.4	12.22	203.71	3.54	256.5	Sgr
1 Aug 2021	19h48m41.03s	-22 42' 35.0"	34.332	33.346	14.5	166.1	0.4	11.96	204.63	3.52	256.5	Sgr
2 Aug 2021	19h48m35.17s	-22 42' 54.8"	34.333	33.351	14.5	165.2	0.4	11.69	205.54	3.50	256.5	Sgr
3 Aug 2021	19h48m29.35s	-22 43' 14.5"	34.333	33.356	14.5	164.2	0.5	11.41	206.45	3.48	256.6	Sgr
4 Aug 2021	19h48m23.56s	-22 43' 34.1"	34.334	33.361	14.5	163.2	0.5	11.12	207.35	3.46	256.6	Sgr
5 Aug 2021	19h48m17.80s	-22 43' 53.5"	34.335	33.367	14.5	162.2	0.5	10.83	208.25	3.43	256.6	Sgr
6 Aug 2021	19h48m12.09s	-22 44' 12.7"	34.335	33.373	14.5	161.3	0.5	10.52	209.15	3.41	256.6	Sgr
7 Aug 2021	19h48m06.42s	-22 44' 31.8"	34.336	33.380	14.5	160.3	0.6	10.21	210.04	3.38	256.7	Sgr
8 Aug 2021	19h48m00.79s	-22 44' 50.6"	34.337	33.386	14.5	159.3	0.6	9.89	210.92	3.35	256.7	Sgr
9 Aug 2021	19h47m55.21s	-22 45' 09.4"	34.337	33.393	14.5	158.3	0.6	9.56	211.81	3.32	256.7	Sgr
10 Aug 2021	19h47m49.67s	-22 45' 27.9"	34.338	33.400	14.5	157.4	0.7	9.22	212.69	3.29	256.7	Sgr

# EPHEMERIDE 2021 – PLUTO

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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11 Aug 2021	19h47m44.19s	-22 45' 46.2"	34.339	33.408	14.5	156.4	0.7	8.88	213.56	3.26	256.7	Sgr
12 Aug 2021	19h47m38.75s	-22 46' 04.4"	34.339	33.415	14.5	155.4	0.7	8.53	214.43	3.23	256.8	Sgr
13 Aug 2021	19h47m33.38s	-22 46' 22.3"	34.340	33.423	14.5	154.4	0.7	8.17	215.30	3.20	256.8	Sgr
14 Aug 2021	19h47m28.06s	-22 46' 40.0"	34.341	33.432	14.5	153.4	0.8	7.80	216.16	3.16	256.8	Sgr
15 Aug 2021	19h47m22.80s	-22 46' 57.6"	34.341	33.440	14.5	152.5	0.8	7.43	217.02	3.12	256.8	Sgr
16 Aug 2021	19h47m17.60s	-22 47' 14.9"	34.342	33.449	14.5	151.5	0.8	7.04	217.87	3.09	256.8	Sgr
17 Aug 2021	19h47m12.46s	-22 47' 32.0"	34.343	33.458	14.5	150.5	0.8	6.65	218.72	3.05	256.8	Sgr
18 Aug 2021	19h47m07.39s	-22 47' 48.9"	34.343	33.467	14.5	149.5	0.9	6.26	219.57	3.01	256.8	Sgr
19 Aug 2021	19h47m02.38s	-22 48' 05.5"	34.344	33.477	14.5	148.5	0.9	5.86	220.41	2.97	256.8	Sgr
20 Aug 2021	19h46m57.44s	-22 48' 22.0"	34.345	33.486	14.5	147.6	0.9	5.45	221.25	2.93	256.8	Sgr
21 Aug 2021	19h46m52.57s	-22 48' 38.2"	34.345	33.496	14.5	146.6	0.9	5.03	222.08	2.88	256.8	Sgr
22 Aug 2021	19h46m47.78s	-22 48' 54.1"	34.346	33.507	14.5	145.6	1.0	4.61	222.91	2.84	256.8	Sgr
23 Aug 2021	19h46m43.05s	-22 49' 09.8"	34.347	33.517	14.5	144.6	1.0	4.18	223.73	2.80	256.8	Sgr
24 Aug 2021	19h46m38.40s	-22 49' 25.3"	34.347	33.528	14.5	143.6	1.0	3.74	224.55	2.75	256.8	Sgr
25 Aug 2021	19h46m33.83s	-22 49' 40.6"	34.348	33.539	14.5	142.7	1.0	3.30	225.37	2.70	256.8	Sgr
26 Aug 2021	19h46m29.34s	-22 49' 55.6"	34.349	33.550	14.5	141.7	1.0	2.85	226.18	2.66	256.8	Sgr
27 Aug 2021	19h46m24.93s	-22 50' 10.3"	34.349	33.562	14.5	140.7	1.1	2.40	226.99	2.61	256.8	Sgr
28 Aug 2021	19h46m20.59s	-22 50' 24.8"	34.350	33.573	14.5	139.7	1.1	1.94	227.79	2.56	256.8	Sgr
29 Aug 2021	19h46m16.35s	-22 50' 39.0"	34.351	33.585	14.5	138.7	1.1	1.48	228.59	2.51	256.8	Sgr
30 Aug 2021	19h46m12.18s	-22 50' 52.9"	34.351	33.597	14.5	137.8	1.1	1.01	229.39	2.46	256.8	Sgr
31 Aug 2021	19h46m08.11s	-22 51' 06.6"	34.352	33.610	14.5	136.8	1.2	0.53	230.18	2.40	256.8	Sgr
1 Sep 2021	19h46m04.12s	-22 51' 20.1"	34.353	33.622	14.5	135.8	1.2	0.05	230.97	2.35	256.7	Sgr
2 Sep 2021	19h46m00.22s	-22 51' 33.2"	34.353	33.635	14.5	134.8	1.2	-0.43	231.75	2.30	256.7	Sgr
3 Sep 2021	19h45m56.42s	-22 51' 46.1"	34.354	33.648	14.5	133.8	1.2	-0.93	232.54	2.24	256.7	Sgr
4 Sep 2021	19h45m52.71s	-22 51' 58.7"	34.355	33.661	14.5	132.8	1.2	-1.42	233.31	2.18	256.7	Sgr
5 Sep 2021	19h45m49.09s	-22 52' 11.0"	34.355	33.674	14.5	131.9	1.3	-1.92	234.09	2.13	256.6	Sgr
6 Sep 2021	19h45m45.58s	-22 52' 23.0"	34.356	33.688	14.5	130.9	1.3	-2.43	234.86	2.07	256.6	Sgr
7 Sep 2021	19h45m42.16s	-22 52' 34.8"	34.357	33.702	14.5	129.9	1.3	-2.93	235.63	2.01	256.5	Sgr
8 Sep 2021	19h45m38.84s	-22 52' 46.2"	34.357	33.716	14.5	128.9	1.3	-3.45	236.40	1.95	256.5	Sgr
9 Sep 2021	19h45m35.62s	-22 52' 57.4"	34.358	33.730	14.5	127.9	1.3	-3.97	237.16	1.89	256.4	Sgr
10 Sep 2021	19h45m32.50s	-22 53' 08.3"	34.359	33.744	14.5	126.9	1.3	-4.49	237.92	1.83	256.3	Sgr
11 Sep 2021	19h45m29.49s	-22 53' 18.9"	34.359	33.758	14.5	126.0	1.4	-5.01	238.68	1.76	256.3	Sgr
12 Sep 2021	19h45m26.59s	-22 53' 29.1"	34.360	33.773	14.5	125.0	1.4	-5.54	239.43	1.70	256.2	Sgr
13 Sep 2021	19h45m23.79s	-22 53' 39.1"	34.361	33.788	14.5	124.0	1.4	-6.08	240.18	1.64	256.1	Sgr
14 Sep 2021	19h45m21.10s	-22 53' 48.8"	34.361	33.803	14.5	123.0	1.4	-6.62	240.93	1.57	256.0	Sgr
15 Sep 2021	19h45m18.52s	-22 53' 58.2"	34.362	33.818	14.5	122.0	1.4	-7.16	241.68	1.51	255.9	Sgr
16 Sep 2021	19h45m16.05s	-22 54' 07.2"	34.363	33.833	14.5	121.0	1.4	-7.70	242.43	1.44	255.7	Sgr
17 Sep 2021	19h45m13.69s	-22 54' 16.0"	34.363	33.849	14.5	120.1	1.5	-8.25	243.17	1.38	255.6	Sgr
18 Sep 2021	19h45m11.44s	-22 54' 24.5"	34.364	33.864	14.5	119.1	1.5	-8.80	243.91	1.31	255.4	Sgr
19 Sep 2021	19h45m09.30s	-22 54' 32.6"	34.365	33.880	14.5	118.1	1.5	-9.35	244.65	1.24	255.2	Sgr
20 Sep 2021	19h45m07.28s	-22 54' 40.4"	34.365	33.896	14.5	117.1	1.5	-9.91	245.39	1.18	255.0	Sgr
21 Sep 2021	19h45m05.37s	-22 54' 48.0"	34.366	33.912	14.5	116.1	1.5	-10.47	246.12	1.11	254.8	Sgr
22 Sep 2021	19h45m03.57s	-22 54' 55.2"	34.367	33.928	14.5	115.1	1.5	-11.03	246.86	1.04	254.5	Sgr
23 Sep 2021	19h45m01.90s	-22 55' 02.1"	34.367	33.945	14.5	114.2	1.5	-11.60	247.59	0.97	254.2	Sgr
24 Sep 2021	19h45m00.33s	-22 55' 08.7"	34.368	33.961	14.5	113.2	1.5	-12.17	248.32	0.90	253.8	Sgr
25 Sep 2021	19h44m58.89s	-22 55' 14.9"	34.369	33.977	14.5	112.2	1.5	-12.74	249.05	0.83	253.4	Sgr
26 Sep 2021	19h44m57.56s	-22 55' 20.9"	34.369	33.994	14.5	111.2	1.6	-13.31	249.78	0.76	252.8	Sgr
27 Sep 2021	19h44m56.36s	-22 55' 26.5"	34.370	34.011	14.5	110.2	1.6	-13.89	250.51	0.69	252.2	Sgr
28 Sep 2021	19h44m55.27s	-22 55' 31.9"	34.371	34.028	14.5	109.2	1.6	-14.47	251.24	0.62	251.3	Sgr
29 Sep 2021	19h44m54.30s	-22 55' 36.9"	34.371	34.044	14.5	108.2	1.6	-15.05	251.97	0.55	250.3	Sgr
30 Sep 2021	19h44m53.46s	-22 55' 41.5"	34.372	34.061	14.5	107.3	1.6	-15.63	252.69	0.48	248.9	Sgr
1 Okt 2021	19h44m52.73s	-22 55' 45.9"	34.373	34.079	14.5	106.3	1.6	-16.21	253.42	0.41	247.1	Sgr
2 Okt 2021	19h44m52.13s	-22 55' 50.0"	34.373	34.096	14.5	105.3	1.6	-16.80	254.15	0.34	244.4	Sgr
3 Okt 2021	19h44m51.66s	-22 55' 53.7"	34.374	34.113	14.5	104.3	1.6	-17.39	254.87	0.27	240.4	Sgr
4 Okt 2021	19h44m51.30s	-22 55' 57.1"	34.375	34.130	14.5	103.3	1.6	-17.98	255.60	0.20	233.4	Sgr
5 Okt 2021	19h44m51.07s	-22 56' 00.2"	34.375	34.148	14.5	102.3	1.6	-18.57	256.33	0.14	219.7	Sgr
6 Okt 2021	19h44m50.97s	-22 56' 02.9"	34.376	34.165	14.5	101.3	1.6	-19.16	257.06	0.09	189.2	Sgr
7 Okt 2021	19h44m50.99s	-22 56' 05.4"	34.377	34.183	14.5	100.4	1.6	-19.75	257.78	0.10	143.6	Sgr
8 Okt 2021	19h44m51.14s	-22 56' 07.5"	34.377	34.200	14.5	99.4	1.6	-20.35	258.51	0.15	116.5	Sgr
9 Okt 2021	19h44m51.41s	-22 56' 09.3"	34.378	34.218	14.5	98.4	1.6	-20.94	259.24	0.21	104.3	Sgr
10 Okt 2021	19h44m51.81s	-22 56' 10.8"	34.379	34.236	14.5	97.4	1.7	-21.54	259.98	0.28	98.0	Sgr
11 Okt 2021	19h44m52.34s	-22 56' 11.9"	34.379	34.253	14.5	96.4	1.7	-22.14	260.71	0.35	94.2	Sgr
12 Okt 2021	19h44m52.99s	-22 56' 12.8"	34.380	34.271	14.5	95.4	1.7	-22.74	261.44	0.43	91.7	Sgr
13 Okt 2021	19h44m53.77s	-22 56' 13.3"	34.381	34.289	14.5	94.4	1.7	-23.34	262.18	0.50	89.9	Sgr
14 Okt 2021	19h44m54.68s	-22 56' 13.5"	34.381	34.307	14.5	93.5	1.7	-23.94	262.92	0.57	88.6	Sgr
15 Okt 2021	19h44m55.71s	-22 56' 13.4"	34.382	34.325	14.5	92.5	1.7	-24.54	263.66	0.65	87.6	Sgr
16 Okt 2021	19h44m56.87s	-22 56' 12.9"	34.383	34.342	14.6	91.5	1.7	-25.14	264.40	0.72	86.8	Sgr
17 Okt 2021	19h44m58.15s	-22 56' 12.2"	34.383	34.360	14.6	90.5	1.7	-25.74	265.15	0.79	86.2	Sgr
18 Okt 2021	19h44m59.56s	-22 56' 11.1"	34.384	34.378	14.6	89.5	1.7	-26.34	265.90	0.87	85.6	Sgr
19 Okt 2021	19h45m01.09s	-22 56' 09.7"	34.385	34.396	14.6	88.5	1.7	-26.94	266.65	0.94	85.2	Sgr
20 Okt 2021	19h45m02.75s	-22 56' 08.0"	34.385	34.414	14.6	87.5	1.7	-27.55	267.40	1.01	84.8	Sgr
21 Okt 2021	19h45m04.53s	-22 56' 06.0"	34.386	34.431	14.6	86.5	1.7	-28.15	268.16	1.09	84.5	Sgr
22 Okt 2021	19h45m06.44s	-22 56' 03.7"	34.387	34.449	14.6	85.6	1.7	-28.75	268.92	1.16	84.2	Sgr
23 Okt 2021	19h45m08.48s	-22 56' 01.1"	34.387	34.467	14.6	84.6	1.7	-29.35	269.69	1.23	83.9	Sgr

# EPHEMERIDE 2021 – PLUTO

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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24 Okt 2021	19h45m10.63s	-22 55' 58.2"	34.388	34.485	14.6	83.6	1.6	-29.95	270.46	1.31	83.7	Sgr
25 Okt 2021	19h45m12.91s	-22 55' 54.9"	34.389	34.502	14.6	82.6	1.6	-30.55	271.24	1.38	83.5	Sgr
26 Okt 2021	19h45m15.32s	-22 55' 51.4"	34.389	34.520	14.6	81.6	1.6	-31.16	272.01	1.45	83.4	Sgr
27 Okt 2021	19h45m17.85s	-22 55' 47.6"	34.390	34.538	14.6	80.6	1.6	-31.75	272.80	1.52	83.2	Sgr
28 Okt 2021	19h45m20.50s	-22 55' 43.4"	34.391	34.555	14.6	79.6	1.6	-32.35	273.59	1.60	83.1	Sgr
29 Okt 2021	19h45m23.27s	-22 55' 39.0"	34.391	34.573	14.6	78.7	1.6	-32.95	274.38	1.67	82.9	Sgr
30 Okt 2021	19h45m26.17s	-22 55' 34.3"	34.392	34.590	14.6	77.7	1.6	-33.55	275.18	1.74	82.8	Sgr
31 Okt 2021	19h45m29.19s	-22 55' 29.2"	34.393	34.608	14.6	76.7	1.6	-34.15	275.99	1.81	82.7	Sgr
1 Nov 2021	19h45m32.33s	-22 55' 23.9"	34.393	34.625	14.6	75.7	1.6	-34.74	276.80	1.88	82.6	Sgr
2 Nov 2021	19h45m35.59s	-22 55' 18.3"	34.394	34.642	14.6	74.7	1.6	-35.33	277.62	1.95	82.6	Sgr
3 Nov 2021	19h45m38.97s	-22 55' 12.4"	34.395	34.660	14.6	73.7	1.6	-35.93	278.45	2.02	82.5	Sgr
4 Nov 2021	19h45m42.47s	-22 55' 06.2"	34.395	34.677	14.6	72.7	1.6	-36.52	279.28	2.09	82.4	Sgr
5 Nov 2021	19h45m46.09s	-22 54' 59.7"	34.396	34.694	14.6	71.7	1.6	-37.10	280.12	2.16	82.3	Sgr
6 Nov 2021	19h45m49.83s	-22 54' 52.9"	34.397	34.711	14.6	70.8	1.6	-37.69	280.97	2.23	82.3	Sgr
7 Nov 2021	19h45m53.68s	-22 54' 45.9"	34.397	34.727	14.6	69.8	1.5	-38.27	281.83	2.30	82.2	Sgr
8 Nov 2021	19h45m57.66s	-22 54' 38.5"	34.398	34.744	14.6	68.8	1.5	-38.86	282.69	2.37	82.2	Sgr
9 Nov 2021	19h46m01.74s	-22 54' 30.9"	34.399	34.761	14.6	67.8	1.5	-39.44	283.57	2.44	82.1	Sgr
10 Nov 2021	19h46m04.94s	-22 54' 23.0"	34.399	34.777	14.6	66.8	1.5	-40.01	284.45	2.51	82.1	Sgr
11 Nov 2021	19h46m10.26s	-22 54' 14.9"	34.400	34.794	14.6	65.8	1.5	-40.59	285.35	2.57	82.0	Sgr
12 Nov 2021	19h46m14.69s	-22 54' 06.4"	34.400	34.810	14.6	64.8	1.5	-41.16	286.25	2.64	82.0	Sgr
13 Nov 2021	19h46m19.22s	-22 53' 57.7"	34.401	34.826	14.6	63.8	1.5	-41.73	287.17	2.70	81.9	Sgr
14 Nov 2021	19h46m23.87s	-22 53' 48.8"	34.402	34.842	14.6	62.9	1.5	-42.30	288.09	2.77	81.9	Sgr
15 Nov 2021	19h46m28.63s	-22 53' 39.6"	34.402	34.858	14.6	61.9	1.5	-42.86	289.03	2.83	81.9	Sgr
16 Nov 2021	19h46m33.49s	-22 53' 30.1"	34.403	34.874	14.6	60.9	1.4	-43.42	289.98	2.89	81.8	Sgr
17 Nov 2021	19h46m38.46s	-22 53' 20.4"	34.404	34.889	14.6	59.9	1.4	-43.97	290.94	2.95	81.8	Sgr
18 Nov 2021	19h46m43.54s	-22 53' 10.4"	34.404	34.905	14.6	58.9	1.4	-44.52	291.91	3.02	81.8	Sgr
19 Nov 2021	19h46m48.72s	-22 53' 00.2"	34.405	34.920	14.6	57.9	1.4	-45.07	292.90	3.08	81.8	Sgr
20 Nov 2021	19h46m54.00s	-22 52' 49.7"	34.406	34.935	14.6	56.9	1.4	-45.61	293.90	3.14	81.7	Sgr
21 Nov 2021	19h46m59.38s	-22 52' 39.0"	34.406	34.950	14.6	55.9	1.4	-46.15	294.91	3.20	81.7	Sgr
22 Nov 2021	19h47m04.87s	-22 52' 28.0"	34.407	34.965	14.6	55.0	1.3	-46.69	295.94	3.26	81.7	Sgr
23 Nov 2021	19h47m10.45s	-22 52' 16.9"	34.408	34.980	14.6	54.0	1.3	-47.21	296.98	3.31	81.7	Sgr
24 Nov 2021	19h47m16.13s	-22 52' 05.5"	34.408	34.994	14.6	53.0	1.3	-47.74	298.04	3.37	81.7	Sgr
25 Nov 2021	19h47m21.91s	-22 51' 53.8"	34.409	35.008	14.6	52.0	1.3	-48.26	299.12	3.43	81.6	Sgr
26 Nov 2021	19h47m27.79s	-22 51' 42.0"	34.410	35.022	14.6	51.0	1.3	-48.77	300.21	3.48	81.6	Sgr
27 Nov 2021	19h47m33.76s	-22 51' 29.9"	34.410	35.036	14.6	50.0	1.3	-49.27	301.32	3.54	81.6	Sgr
28 Nov 2021	19h47m39.82s	-22 51' 17.6"	34.411	35.050	14.6	49.0	1.2	-49.77	302.44	3.59	81.6	Sgr
29 Nov 2021	19h47m45.98s	-22 51' 05.0"	34.412	35.064	14.6	48.0	1.2	-50.27	303.59	3.65	81.6	Sgr
30 Nov 2021	19h47m52.22s	-22 50' 52.3"	34.412	35.077	14.6	47.0	1.2	-50.75	304.75	3.70	81.6	Sgr
1 Dez 2021	19h47m58.56s	-22 50' 39.4"	34.413	35.090	14.6	46.1	1.2	-51.23	305.93	3.75	81.6	Sgr
2 Dez 2021	19h48m04.98s	-22 50' 26.2"	34.414	35.103	14.6	45.1	1.2	-51.71	307.13	3.80	81.6	Sgr
3 Dez 2021	19h48m11.49s	-22 50' 12.9"	34.414	35.116	14.6	44.1	1.1	-52.17	308.35	3.85	81.5	Sgr
4 Dez 2021	19h48m18.08s	-22 49' 59.4"	34.415	35.128	14.6	43.1	1.1	-52.63	309.59	3.90	81.5	Sgr
5 Dez 2021	19h48m24.76s	-22 49' 45.6"	34.416	35.141	14.6	42.1	1.1	-53.07	310.85	3.95	81.5	Sgr
6 Dez 2021	19h48m31.52s	-22 49' 31.7"	34.416	35.153	14.6	41.1	1.1	-53.51	312.13	4.00	81.5	Sgr
7 Dez 2021	19h48m38.35s	-22 49' 17.6"	34.417	35.165	14.6	40.1	1.1	-53.94	313.43	4.04	81.5	Sgr
8 Dez 2021	19h48m45.27s	-22 49' 03.3"	34.418	35.176	14.6	39.1	1.0	-54.36	314.76	4.09	81.5	Sgr
9 Dez 2021	19h48m52.26s	-22 48' 48.9"	34.418	35.188	14.6	38.2	1.0	-54.77	316.10	4.13	81.5	Sgr
10 Dez 2021	19h48m59.32s	-22 48' 34.3"	34.419	35.199	14.6	37.2	1.0	-55.17	317.47	4.18	81.5	Sgr
11 Dez 2021	19h49m06.46s	-22 48' 19.5"	34.420	35.210	14.6	36.2	1.0	-55.56	318.87	4.22	81.5	Sgr
12 Dez 2021	19h49m13.66s	-22 48' 04.5"	34.420	35.220	14.6	35.2	0.9	-55.94	320.28	4.26	81.5	Sgr
13 Dez 2021	19h49m20.94s	-22 47' 49.4"	34.421	35.231	14.6	34.2	0.9	-56.31	321.72	4.30	81.5	Sgr
14 Dez 2021	19h49m28.28s	-22 47' 34.2"	34.422	35.241	14.6	33.2	0.9	-56.66	323.18	4.34	81.5	Sgr
15 Dez 2021	19h49m35.69s	-22 47' 18.8"	34.422	35.251	14.6	32.2	0.9	-57.00	324.66	4.37	81.5	Sgr
16 Dez 2021	19h49m43.15s	-22 47' 03.2"	34.423	35.261	14.6	31.2	0.8	-57.33	326.16	4.41	81.5	Sgr
17 Dez 2021	19h49m50.68s	-22 46' 47.5"	34.424	35.270	14.6	30.3	0.8	-57.65	327.69	4.45	81.5	Sgr
18 Dez 2021	19h49m58.27s	-22 46' 31.7"	34.424	35.279	14.6	29.3	0.8	-57.95	329.24	4.48	81.5	Sgr
19 Dez 2021	19h50m05.92s	-22 46' 15.8"	34.425	35.288	14.6	28.3	0.8	-58.24	330.82	4.51	81.5	Sgr
20 Dez 2021	19h50m13.62s	-22 45' 59.7"	34.426	35.297	14.6	27.3	0.8	-58.52	332.41	4.55	81.5	Sgr
21 Dez 2021	19h50m21.38s	-22 45' 43.6"	34.426	35.305	14.6	26.3	0.7	-58.78	334.02	4.58	81.5	Sgr
22 Dez 2021	19h50m29.19s	-22 45' 27.3"	34.427	35.314	14.6	25.3	0.7	-59.02	335.66	4.61	81.5	Sgr
23 Dez 2021	19h50m37.05s	-22 45' 10.9"	34.428	35.322	14.6	24.3	0.7	-59.25	337.31	4.64	81.5	Sgr
24 Dez 2021	19h50m44.96s	-22 44' 54.3"	34.428	35.329	14.6	23.4	0.6	-59.47	338.98	4.67	81.5	Sgr
25 Dez 2021	19h50m52.92s	-22 44' 37.7"	34.429	35.337	14.6	22.4	0.6	-59.67	340.68	4.69	81.5	Sgr
26 Dez 2021	19h51m00.93s	-22 44' 21.0"	34.430	35.344	14.6	21.4	0.6	-59.85	342.38	4.72	81.5	Sgr
27 Dez 2021	19h51m08.97s	-22 44' 04.2"	34.430	35.350	14.6	20.4	0.6	-60.01	344.10	4.74	81.5	Sgr
28 Dez 2021	19h51m17.06s	-22 43' 47.4"	34.431	35.357	14.6	19.4	0.5	-60.16	345.84	4.77	81.5	Sgr
29 Dez 2021	19h51m25.19s	-22 43' 30.4"	34.432	35.363	14.6	18.4	0.5	-60.29	347.59	4.79	81.5	Sgr
30 Dez 2021	19h51m33.36s	-22 43' 13.4"	34.432	35.369	14.6	17.5	0.5	-60.40	349.35	4.81	81.5	Sgr
31 Dez 2021	19h51m41.56s	-22 42' 56.3"	34.433	35.375	14.6	16.5	0.5	-60.50	351.12	4.83	81.5	Sgr
1 Jan 2022	19h51m49.79s	-22 42' 39.1"	34.434	35.380	14.6	15.5	0.4	-60.57	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	354.69	4.87	81.5	Sgr