



Die Bahn des Pluto 2012

# **EPHEMERIDE 2012 – (134340) 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>	
1 Jan 2012	18h30m16.67s	-19 19' 59.4"	32.154	33.134	14.3	4.7	0.1	-55.01	27.32	5.38	89.5	Sgr
2 Jan 2012	18h30m25.73s	-19 19' 58.1"	32.155	33.134	14.3	5.3	0.2	-54.74	28.80	5.38	89.4	Sgr
3 Jan 2012	18h30m34.78s	-19 19' 56.6"	32.155	33.133	14.3	6.0	0.2	-54.45	30.26	5.37	89.4	Sgr
4 Jan 2012	18h30m43.81s	-19 19' 54.9"	32.156	33.132	14.3	6.8	0.2	-54.15	31.70	5.37	89.3	Sgr
5 Jan 2012	18h30m52.84s	-19 19' 53.1"	32.156	33.131	14.3	7.6	0.2	-53.83	33.13	5.36	89.2	Sgr
6 Jan 2012	18h31m01.85s	-19 19' 51.2"	32.157	33.129	14.3	8.5	0.3	-53.51	34.53	5.35	89.2	Sgr
7 Jan 2012	18h31m10.84s	-19 19' 49.1"	32.157	33.127	14.3	9.4	0.3	-53.17	35.92	5.34	89.1	Sgr
8 Jan 2012	18h31m19.81s	-19 19' 46.9"	32.158	33.125	14.3	10.3	0.3	-52.82	37.29	5.32	89.0	Sgr
9 Jan 2012	18h31m28.76s	-19 19' 44.5"	32.158	33.123	14.3	11.2	0.3	-52.46	38.64	5.31	89.0	Sgr
10 Jan 2012	18h31m37.69s	-19 19' 42.0"	32.159	33.120	14.3	12.1	0.4	-52.09	39.97	5.29	88.9	Sgr
11 Jan 2012	18h31m46.59s	-19 19' 39.4"	32.160	33.117	14.3	13.1	0.4	-51.71	41.28	5.28	88.9	Sgr
12 Jan 2012	18h31m55.47s	-19 19' 36.6"	32.160	33.114	14.3	14.0	0.4	-51.31	42.58	5.26	88.8	Sgr
13 Jan 2012	18h32m04.31s	-19 19' 33.8"	32.161	33.110	14.3	14.9	0.5	-50.91	43.85	5.24	88.7	Sgr
14 Jan 2012	18h32m13.12s	-19 19' 30.7"	32.161	33.106	14.3	15.9	0.5	-50.50	45.11	5.22	88.7	Sgr
15 Jan 2012	18h32m21.90s	-19 19' 27.6"	32.162	33.102	14.3	16.8	0.5	-50.08	46.35	5.20	88.6	Sgr
16 Jan 2012	18h32m30.65s	-19 19' 24.3"	32.162	33.098	14.3	17.8	0.5	-49.65	47.57	5.18	88.6	Sgr
17 Jan 2012	18h32m39.35s	-19 19' 20.9"	32.163	33.093	14.3	18.8	0.6	-49.22	48.77	5.16	88.5	Sgr
18 Jan 2012	18h32m48.02s	-19 19' 17.4"	32.163	33.088	14.3	19.7	0.6	-48.77	49.96	5.13	88.4	Sgr
19 Jan 2012	18h32m56.64s	-19 19' 13.8"	32.164	33.083	14.3	20.7	0.6	-48.32	51.12	5.11	88.4	Sgr
20 Jan 2012	18h33m05.22s	-19 19' 10.1"	32.165	33.077	14.3	21.7	0.6	-47.86	52.28	5.08	88.3	Sgr
21 Jan 2012	18h33m13.76s	-19 19' 06.3"	32.165	33.071	14.3	22.6	0.7	-47.39	53.41	5.05	88.3	Sgr
22 Jan 2012	18h33m22.24s	-19 19' 02.3"	32.166	33.065	14.3	23.6	0.7	-46.92	54.53	5.02	88.2	Sgr
23 Jan 2012	18h33m30.68s	-19 18' 58.3"	32.166	33.059	14.3	24.6	0.7	-46.43	55.63	4.99	88.2	Sgr
24 Jan 2012	18h33m39.06s	-19 18' 54.1"	32.167	33.052	14.3	25.5	0.8	-45.95	56.72	4.96	88.1	Sgr
25 Jan 2012	18h33m47.39s	-19 18' 49.9"	32.167	33.045	14.3	26.5	0.8	-45.45	57.79	4.93	88.0	Sgr
26 Jan 2012	18h33m55.66s	-19 18' 45.6"	32.168	33.038	14.3	27.5	0.8	-44.95	58.85	4.89	88.0	Sgr
27 Jan 2012	18h34m03.87s	-19 18' 41.2"	32.168	33.031	14.3	28.5	0.8	-44.45	59.89	4.86	87.9	Sgr
28 Jan 2012	18h34m12.02s	-19 18' 36.7"	32.169	33.023	14.3	29.4	0.9	-43.93	60.92	4.82	87.9	Sgr
29 Jan 2012	18h34m20.11s	-19 18' 32.1"	32.170	33.015	14.3	30.4	0.9	-43.42	61.94	4.78	87.8	Sgr
30 Jan 2012	18h34m28.13s	-19 18' 27.5"	32.170	33.007	14.3	31.4	0.9	-42.90	62.94	4.74	87.8	Sgr
31 Jan 2012	18h34m36.08s	-19 18' 22.7"	32.171	32.998	14.3	32.4	0.9	-42.37	63.93	4.70	87.7	Sgr
1 Feb 2012	18h34m43.97s	-19 18' 17.9"	32.171	32.990	14.3	33.3	1.0	-41.84	64.91	4.66	87.7	Sgr
2 Feb 2012	18h34m51.79s	-19 18' 13.1"	32.172	32.981	14.3	34.3	1.0	-41.30	65.88	4.62	87.6	Sgr
3 Feb 2012	18h34m59.53s	-19 18' 08.1"	32.172	32.972	14.3	35.3	1.0	-40.76	66.83	4.57	87.6	Sgr
4 Feb 2012	18h35m07.20s	-19 18' 03.1"	32.173	32.962	14.3	36.3	1.0	-40.22	67.78	4.53	87.5	Sgr
5 Feb 2012	18h35m14.80s	-19 17' 58.1"	32.173	32.953	14.3	37.2	1.1	-39.67	68.71	4.48	87.4	Sgr
6 Feb 2012	18h35m22.32s	-19 17' 53.0"	32.174	32.943	14.3	38.2	1.1	-39.12	69.63	4.44	87.4	Sgr
7 Feb 2012	18h35m29.76s	-19 17' 47.8"	32.175	32.933	14.3	39.2	1.1	-38.57	70.54	4.39	87.3	Sgr
8 Feb 2012	18h35m37.12s	-19 17' 42.6"	32.175	32.922	14.3	40.2	1.1	-38.01	71.45	4.34	87.3	Sgr
9 Feb 2012	18h35m44.39s	-19 17' 37.4"	32.176	32.912	14.3	41.2	1.2	-37.45	72.34	4.29	87.2	Sgr
10 Feb 2012	18h35m51.59s	-19 17' 32.1"	32.176	32.901	14.3	42.1	1.2	-36.89	73.22	4.24	87.2	Sgr
11 Feb 2012	18h35m58.70s	-19 17' 26.8"	32.177	32.890	14.3	43.1	1.2	-36.32	74.10	4.19	87.1	Sgr
12 Feb 2012	18h36m05.72s	-19 17' 21.4"	32.177	32.879	14.3	44.1	1.2	-35.75	74.96	4.14	87.1	Sgr
13 Feb 2012	18h36m12.65s	-19 17' 16.0"	32.178	32.867	14.3	45.1	1.2	-35.18	75.82	4.09	87.0	Sgr
14 Feb 2012	18h36m19.50s	-19 17' 10.6"	32.178	32.856	14.3	46.1	1.3	-34.60	76.67	4.03	87.0	Sgr
15 Feb 2012	18h36m26.25s	-19 17' 05.1"	32.179	32.844	14.3	47.0	1.3	-34.03	77.51	3.98	86.9	Sgr
16 Feb 2012	18h36m32.91s	-19 16' 59.6"	32.180	32.832	14.3	48.0	1.3	-33.45	78.35	3.92	86.9	Sgr
17 Feb 2012	18h36m39.47s	-19 16' 54.2"	32.180	32.820	14.3	49.0	1.3	-32.87	79.18	3.87	86.8	Sgr
18 Feb 2012	18h36m45.94s	-19 16' 48.7"	32.181	32.807	14.3	50.0	1.3	-32.28	80.00	3.81	86.7	Sgr
19 Feb 2012	18h36m52.31s	-19 16' 43.1"	32.181	32.795	14.3	51.0	1.4	-31.70	80.81	3.75	86.7	Sgr
20 Feb 2012	18h36m58.58s	-19 16' 37.6"	32.182	32.782	14.3	51.9	1.4	-31.11	81.62	3.69	86.6	Sgr
21 Feb 2012	18h37m04.75s	-19 16' 32.1"	32.182	32.769	14.3	52.9	1.4	-30.53	82.43	3.63	86.6	Sgr
22 Feb 2012	18h37m10.81s	-19 16' 26.6"	32.183	32.756	14.3	53.9	1.4	-29.94	83.23	3.57	86.5	Sgr
23 Feb 2012	18h37m16.77s	-19 16' 21.1"	32.183	32.742	14.3	54.9	1.4	-29.35	84.02	3.50	86.5	Sgr
24 Feb 2012	18h37m22.63s	-19 16' 15.6"	32.184	32.729	14.3	55.9	1.5	-28.76	84.81	3.44	86.4	Sgr
25 Feb 2012	18h37m28.38s	-19 16' 10.1"	32.185	32.715	14.3	56.8	1.5	-28.17	85.59	3.37	86.4	Sgr
26 Feb 2012	18h37m34.02s	-19 16' 04.7"	32.185	32.701	14.3	57.8	1.5	-27.57	86.37	3.31	86.3	Sgr
27 Feb 2012	18h37m39.54s	-19 15' 59.2"	32.186	32.687	14.3	58.8	1.5	-26.98	87.14	3.24	86.3	Sgr
28 Feb 2012	18h37m44.96s	-19 15' 53.8"	32.186	32.673	14.3	59.8	1.5	-26.38	87.91	3.18	86.2	Sgr
29 Feb 2012	18h37m50.27s	-19 15' 48.5"	32.187	32.659	14.3	60.8	1.5	-25.79	88.68	3.11	86.1	Sgr
1 Mär 2012	18h37m55.46s	-19 15' 43.1"	32.187	32.645	14.3	61.7	1.6	-25.19	89.44	3.04	86.1	Sgr
2 Mär 2012	18h38m00.54s	-19 15' 37.8"	32.188	32.630	14.3	62.7	1.6	-24.60	90.20	2.97	86.0	Sgr
3 Mär 2012	18h38m05.50s	-19 15' 32.5"	32.188	32.615	14.3	63.7	1.6	-24.00	90.96	2.91	86.0	Sgr
4 Mär 2012	18h38m10.35s	-19 15' 27.3"	32.189	32.601	14.3	64.7	1.6	-23.41	91.71	2.84	85.9	Sgr
5 Mär 2012	18h38m15.08s	-19 15' 22.1"	32.190	32.586	14.3	65.7	1.6	-22.81	92.46	2.77	85.8	Sgr
6 Mär 2012	18h38m19.69s	-19 15' 17.0"	32.190	32.571	14.3	66.6	1.6	-22.21	93.21	2.70	85.8	Sgr
7 Mär 2012	18h38m24.19s	-19 15' 11.9"	32.191	32.555	14.3	67.6	1.6	-21.62	93.95	2.62	85.7	Sgr
8 Mär 2012	18h38m28.56s	-19 15' 06.9"	32.191	32.540	14.3	68.6	1.6	-21.02	94.69	2.55	85.6	Sgr
9 Mär 2012	18h38m32.81s	-19 15' 01.9"	32.192	32.525	14.3	69.6	1.7	-20.43	95.44	2.48	85.6	Sgr
10 Mär 2012	18h38m36.94s	-19 14' 57.0"	32.192	32.509	14.3	70.6	1.7	-19.83	96.17	2.41	85.5	Sgr
11 Mär 2012	18h38m40.96s	-19 14' 52.2"	32.193	32.494	14.3	71.5	1.7	-19.24	96.91	2.34	85.4	Sgr
12 Mär 2012	18h38m44.84s	-19 14' 47.4"	32.193	32.478	14.3	72.5	1.7	-18.64	97.65	2.26	85.4	Sgr
13 Mär 2012	18h38m48.61s	-19 14' 42.7"	32.194	32.462	14.3	73.5	1.7	-18.05	98.38	2.19	85.3	Sgr
14 Mär 2012	18h38m52.24s	-19 14' 38.1"	32.195	32.446	14.3	74.5	1.7	-17.46	99.12	2.11	85.2	Sgr

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
15 Mär 2012	18h38m55.76s	-19 14' 33.5"	32.195	32.430	14.3	75.5	1.7	-16.87	99.85	2.04	85.1 Sgr
16 Mär 2012	18h38m59.15s	-19 14' 29.1"	32.196	32.414	14.3	76.4	1.7	-16.28	100.58	1.96	85.0 Sgr
17 Mär 2012	18h39m02.41s	-19 14' 24.7"	32.196	32.398	14.3	77.4	1.7	-15.69	101.32	1.89	84.9 Sgr
18 Mär 2012	18h39m05.54s	-19 14' 20.4"	32.197	32.382	14.3	78.4	1.7	-15.10	102.05	1.81	84.9 Sgr
19 Mär 2012	18h39m08.54s	-19 14' 16.2"	32.197	32.366	14.3	79.4	1.7	-14.51	102.78	1.73	84.8 Sgr
20 Mär 2012	18h39m11.41s	-19 14' 12.1"	32.198	32.350	14.3	80.4	1.7	-13.93	103.51	1.66	84.7 Sgr
21 Mär 2012	18h39m14.16s	-19 14' 08.1"	32.198	32.333	14.3	81.3	1.8	-13.34	104.24	1.58	84.5 Sgr
22 Mär 2012	18h39m16.77s	-19 14' 04.2"	32.199	32.317	14.3	82.3	1.8	-12.76	104.97	1.50	84.4 Sgr
23 Mär 2012	18h39m19.25s	-19 14' 00.4"	32.200	32.301	14.3	83.3	1.8	-12.18	105.70	1.42	84.3 Sgr
24 Mär 2012	18h39m21.61s	-19 13' 56.7"	32.200	32.284	14.3	84.3	1.8	-11.60	106.44	1.34	84.2 Sgr
25 Mär 2012	18h39m23.82s	-19 13' 53.2"	32.201	32.268	14.3	85.3	1.8	-11.02	107.17	1.27	84.0 Sgr
26 Mär 2012	18h39m25.91s	-19 13' 49.7"	32.201	32.251	14.3	86.3	1.8	-10.45	107.90	1.19	83.8 Sgr
27 Mär 2012	18h39m27.87s	-19 13' 46.4"	32.202	32.235	14.3	87.2	1.8	-9.88	108.64	1.11	83.7 Sgr
28 Mär 2012	18h39m29.69s	-19 13' 43.2"	32.202	32.218	14.3	88.2	1.8	-9.30	109.38	1.03	83.4 Sgr
29 Mär 2012	18h39m31.38s	-19 13' 40.1"	32.203	32.202	14.3	89.2	1.8	-8.74	110.11	0.95	83.2 Sgr
30 Mär 2012	18h39m32.94s	-19 13' 37.1"	32.204	32.185	14.3	90.2	1.8	-8.17	110.85	0.87	82.9 Sgr
31 Mär 2012	18h39m34.36s	-19 13' 34.3"	32.204	32.169	14.3	91.2	1.8	-7.61	111.59	0.79	82.6 Sgr
1 Apr 2012	18h39m35.66s	-19 13' 31.6"	32.205	32.152	14.3	92.1	1.8	-7.04	112.33	0.71	82.2 Sgr
2 Apr 2012	18h39m36.82s	-19 13' 29.0"	32.205	32.135	14.3	93.1	1.8	-6.49	113.08	0.63	81.7 Sgr
3 Apr 2012	18h39m37.84s	-19 13' 26.5"	32.206	32.119	14.3	94.1	1.8	-5.93	113.83	0.56	81.1 Sgr
4 Apr 2012	18h39m38.74s	-19 13' 24.2"	32.206	32.103	14.3	95.1	1.8	-5.38	114.57	0.48	80.3 Sgr
5 Apr 2012	18h39m39.50s	-19 13' 22.1"	32.207	32.086	14.3	96.0	1.8	-4.83	115.32	0.40	79.3 Sgr
6 Apr 2012	18h39m40.14s	-19 13' 20.0"	32.207	32.070	14.3	97.0	1.8	-4.28	116.08	0.32	77.7 Sgr
7 Apr 2012	18h39m40.64s	-19 13' 18.1"	32.208	32.053	14.3	98.0	1.8	-3.74	116.83	0.24	75.1 Sgr
8 Apr 2012	18h39m41.01s	-19 13' 16.4"	32.209	32.037	14.3	99.0	1.8	-3.20	117.59	0.17	70.1 Sgr
9 Apr 2012	18h39m41.25s	-19 13' 14.8"	32.209	32.021	14.3	100.0	1.8	-2.66	118.35	0.09	57.4 Sgr
10 Apr 2012	18h39m41.36s	-19 13' 13.3"	32.210	32.004	14.3	100.9	1.8	-2.13	119.11	0.04	2.0 Sgr
11 Apr 2012	18h39m41.33s	-19 13' 12.0"	32.210	31.988	14.3	101.9	1.7	-1.60	119.88	0.09	296.8 Sgr
12 Apr 2012	18h39m41.18s	-19 13' 10.9"	32.211	31.972	14.3	102.9	1.7	-1.07	120.65	0.16	281.9 Sgr
13 Apr 2012	18h39m40.90s	-19 13' 09.9"	32.211	31.956	14.3	103.9	1.7	-0.55	121.42	0.23	276.4 Sgr
14 Apr 2012	18h39m40.48s	-19 13' 09.0"	32.212	31.940	14.3	104.9	1.7	-0.04	122.20	0.31	273.6 Sgr
15 Apr 2012	18h39m39.94s	-19 13' 08.3"	32.212	31.924	14.3	105.8	1.7	0.48	122.97	0.39	271.9 Sgr
16 Apr 2012	18h39m39.27s	-19 13' 07.8"	32.213	31.908	14.2	106.8	1.7	0.99	123.76	0.46	270.8 Sgr
17 Apr 2012	18h39m38.47s	-19 13' 07.5"	32.214	31.893	14.2	107.8	1.7	1.49	124.54	0.54	270.0 Sgr
18 Apr 2012	18h39m37.53s	-19 13' 07.3"	32.214	31.877	14.2	108.8	1.7	1.99	125.33	0.62	269.4 Sgr
19 Apr 2012	18h39m36.48s	-19 13' 07.2"	32.215	31.861	14.2	109.8	1.7	2.49	126.13	0.69	268.9 Sgr
20 Apr 2012	18h39m35.29s	-19 13' 07.4"	32.215	31.846	14.2	110.7	1.7	2.98	126.92	0.77	268.5 Sgr
21 Apr 2012	18h39m33.98s	-19 13' 07.7"	32.216	31.830	14.2	111.7	1.7	3.46	127.72	0.84	268.1 Sgr
22 Apr 2012	18h39m32.54s	-19 13' 08.2"	32.216	31.815	14.2	112.7	1.6	3.94	128.53	0.92	267.9 Sgr
23 Apr 2012	18h39m30.97s	-19 13' 08.8"	32.217	31.800	14.2	113.7	1.6	4.42	129.34	0.99	267.6 Sgr
24 Apr 2012	18h39m29.29s	-19 13' 09.6"	32.217	31.785	14.2	114.6	1.6	4.89	130.15	1.07	267.4 Sgr
25 Apr 2012	18h39m27.47s	-19 13' 10.6"	32.218	31.770	14.2	115.6	1.6	5.36	130.97	1.14	267.2 Sgr
26 Apr 2012	18h39m25.54s	-19 13' 11.8"	32.219	31.755	14.2	116.6	1.6	5.81	131.79	1.21	267.0 Sgr
27 Apr 2012	18h39m23.49s	-19 13' 13.1"	32.219	31.741	14.2	117.6	1.6	6.27	132.62	1.28	266.9 Sgr
28 Apr 2012	18h39m21.31s	-19 13' 14.6"	32.220	31.726	14.2	118.6	1.6	6.72	133.45	1.36	266.8 Sgr
29 Apr 2012	18h39m19.02s	-19 13' 16.3"	32.220	31.712	14.2	119.5	1.6	7.16	134.29	1.43	266.6 Sgr
30 Apr 2012	18h39m16.61s	-19 13' 18.2"	32.221	31.698	14.2	120.5	1.5	7.59	135.13	1.50	266.5 Sgr
1 Mai 2012	18h39m14.08s	-19 13' 20.2"	32.221	31.684	14.2	121.5	1.5	8.02	135.97	1.57	266.4 Sgr
2 Mai 2012	18h39m11.43s	-19 13' 22.4"	32.222	31.670	14.2	122.5	1.5	8.45	136.82	1.63	266.3 Sgr
3 Mai 2012	18h39m08.68s	-19 13' 24.8"	32.223	31.656	14.2	123.5	1.5	8.86	137.67	1.70	266.2 Sgr
4 Mai 2012	18h39m05.81s	-19 13' 27.4"	32.223	31.642	14.2	124.4	1.5	9.27	138.53	1.77	266.1 Sgr
5 Mai 2012	18h39m02.83s	-19 13' 30.1"	32.224	31.629	14.2	125.4	1.5	9.68	139.40	1.83	266.0 Sgr
6 Mai 2012	18h38m59.73s	-19 13' 33.0"	32.224	31.616	14.2	126.4	1.4	10.07	140.26	1.90	266.0 Sgr
7 Mai 2012	18h38m56.53s	-19 13' 36.1"	32.225	31.602	14.2	127.4	1.4	10.46	141.14	1.96	265.9 Sgr
8 Mai 2012	18h38m53.23s	-19 13' 39.4"	32.225	31.590	14.2	128.3	1.4	10.84	142.02	2.03	265.8 Sgr
9 Mai 2012	18h38m49.81s	-19 13' 42.9"	32.226	31.577	14.2	129.3	1.4	11.22	142.90	2.09	265.7 Sgr
10 Mai 2012	18h38m46.29s	-19 13' 46.5"	32.226	31.564	14.2	130.3	1.4	11.59	143.79	2.15	265.7 Sgr
11 Mai 2012	18h38m42.66s	-19 13' 50.3"	32.227	31.552	14.2	131.3	1.3	11.95	144.68	2.22	265.6 Sgr
12 Mai 2012	18h38m38.94s	-19 13' 54.3"	32.228	31.540	14.2	132.2	1.3	12.30	145.58	2.28	265.5 Sgr
13 Mai 2012	18h38m35.11s	-19 13' 58.4"	32.228	31.528	14.2	133.2	1.3	12.64	146.48	2.34	265.5 Sgr
14 Mai 2012	18h38m31.18s	-19 14' 02.8"	32.229	31.516	14.2	134.2	1.3	12.98	147.39	2.40	265.4 Sgr
15 Mai 2012	18h38m27.15s	-19 14' 07.3"	32.229	31.504	14.2	135.2	1.3	13.31	148.30	2.46	265.4 Sgr
16 Mai 2012	18h38m23.02s	-19 14' 12.0"	32.230	31.493	14.2	136.1	1.2	13.63	149.21	2.51	265.3 Sgr
17 Mai 2012	18h38m18.80s	-19 14' 16.9"	32.230	31.482	14.2	137.1	1.2	13.94	150.14	2.57	265.2 Sgr
18 Mai 2012	18h38m14.49s	-19 14' 22.0"	32.231	31.471	14.2	138.1	1.2	14.24	151.06	2.63	265.2 Sgr
19 Mai 2012	18h38m10.08s	-19 14' 27.2"	32.231	31.460	14.2	139.1	1.2	14.53	151.99	2.68	265.1 Sgr
20 Mai 2012	18h38m05.58s	-19 14' 32.6"	32.232	31.450	14.2	140.1	1.2	14.82	152.93	2.73	265.1 Sgr
21 Mai 2012	18h38m00.99s	-19 14' 38.2"	32.233	31.439	14.2	141.0	1.1	15.09	153.87	2.79	265.0 Sgr
22 Mai 2012	18h37m56.32s	-19 14' 44.0"	32.233	31.429	14.2	142.0	1.1	15.36	154.81	2.84	265.0 Sgr
23 Mai 2012	18h37m51.56s	-19 14' 49.9"	32.234	31.420	14.2	143.0	1.1	15.62	155.76	2.89	264.9 Sgr
24 Mai 2012	18h37m46.72s	-19 14' 56.0"	32.234	31.410	14.2	143.9	1.1	15.87	156.71	2.94	264.9 Sgr
25 Mai 2012	18h37m41.80s	-19 15' 02.3"	32.235	31.401	14.2	144.9	1.0	16.10	157.67	2.98	264.8 Sgr
26 Mai 2012	18h37m36.80s	-19 15' 08.8"	32.235	31.392	14.2	145.9	1.0	16.33	158.63	3.03	264.8 Sgr
27 Mai 2012	18h37m31.72s	-19 15' 15.4"	32.236	31.383	14.2	146.9	1.0	16.55	159.59	3.08	264.7 Sgr

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	
28 Mai 2012	18h37m26.57s	-19 15' 22.2"	32.237	31.374	14.2	147.8	1.0	16.76	160.56	3.12	264.7	Sgr
29 Mai 2012	18h37m21.35s	-19 15' 29.2"	32.237	31.366	14.2	148.8	0.9	16.96	161.53	3.16	264.6	Sgr
30 Mai 2012	18h37m16.05s	-19 15' 36.3"	32.238	31.358	14.2	149.8	0.9	17.15	162.51	3.20	264.6	Sgr
31 Mai 2012	18h37m10.69s	-19 15' 43.6"	32.238	31.350	14.2	150.8	0.9	17.33	163.48	3.24	264.5	Sgr
1 Jun 2012	18h37m05.26s	-19 15' 51.1"	32.239	31.342	14.2	151.7	0.9	17.50	164.47	3.28	264.5	Sgr
2 Jun 2012	18h36m59.77s	-19 15' 58.7"	32.239	31.335	14.2	152.7	0.8	17.66	165.45	3.32	264.4	Sgr
3 Jun 2012	18h36m54.21s	-19 16' 06.5"	32.240	31.328	14.2	153.7	0.8	17.81	166.44	3.36	264.4	Sgr
4 Jun 2012	18h36m48.60s	-19 16' 14.4"	32.240	31.321	14.2	154.6	0.8	17.95	167.43	3.39	264.3	Sgr
5 Jun 2012	18h36m42.92s	-19 16' 22.6"	32.241	31.314	14.2	155.6	0.7	18.08	168.42	3.43	264.3	Sgr
6 Jun 2012	18h36m37.19s	-19 16' 30.8"	32.242	31.308	14.2	156.6	0.7	18.19	169.42	3.46	264.2	Sgr
7 Jun 2012	18h36m31.41s	-19 16' 39.2"	32.242	31.302	14.2	157.5	0.7	18.30	170.41	3.49	264.2	Sgr
8 Jun 2012	18h36m25.57s	-19 16' 47.8"	32.243	31.296	14.2	158.5	0.7	18.40	171.41	3.52	264.1	Sgr
9 Jun 2012	18h36m19.68s	-19 16' 56.5"	32.243	31.291	14.2	159.5	0.6	18.48	172.41	3.55	264.1	Sgr
10 Jun 2012	18h36m13.75s	-19 17' 05.4"	32.244	31.285	14.2	160.4	0.6	18.56	173.42	3.58	264.0	Sgr
11 Jun 2012	18h36m07.77s	-19 17' 14.4"	32.244	31.281	14.2	161.4	0.6	18.62	174.42	3.61	264.0	Sgr
12 Jun 2012	18h36m01.74s	-19 17' 23.6"	32.245	31.276	14.2	162.3	0.5	18.67	175.43	3.63	263.9	Sgr
13 Jun 2012	18h35m55.68s	-19 17' 33.0"	32.245	31.271	14.2	163.3	0.5	18.71	176.43	3.66	263.9	Sgr
14 Jun 2012	18h35m49.57s	-19 17' 42.4"	32.246	31.267	14.2	164.2	0.5	18.74	177.44	3.68	263.8	Sgr
15 Jun 2012	18h35m43.43s	-19 17' 52.1"	32.247	31.264	14.2	165.2	0.5	18.76	178.45	3.70	263.8	Sgr
16 Jun 2012	18h35m37.25s	-19 18' 01.8"	32.247	31.260	14.2	166.1	0.4	18.77	179.46	3.72	263.7	Sgr
17 Jun 2012	18h35m31.04s	-19 18' 11.7"	32.248	31.257	14.2	167.1	0.4	18.77	180.46	3.74	263.6	Sgr
18 Jun 2012	18h35m24.80s	-19 18' 21.8"	32.248	31.254	14.2	168.0	0.4	18.76	181.47	3.76	263.6	Sgr
19 Jun 2012	18h35m18.53s	-19 18' 32.0"	32.249	31.251	14.2	168.9	0.3	18.73	182.48	3.77	263.5	Sgr
20 Jun 2012	18h35m12.24s	-19 18' 42.3"	32.249	31.249	14.2	169.8	0.3	18.70	183.49	3.79	263.5	Sgr
21 Jun 2012	18h35m05.92s	-19 18' 52.8"	32.250	31.247	14.2	170.7	0.3	18.65	184.49	3.80	263.4	Sgr
22 Jun 2012	18h34m59.59s	-19 19' 03.3"	32.251	31.245	14.2	171.6	0.3	18.59	185.50	3.81	263.4	Sgr
23 Jun 2012	18h34m53.24s	-19 19' 14.1"	32.251	31.243	14.2	172.5	0.2	18.53	186.51	3.82	263.3	Sgr
24 Jun 2012	18h34m46.87s	-19 19' 24.9"	32.252	31.242	14.2	173.3	0.2	18.45	187.51	3.83	263.2	Sgr
25 Jun 2012	18h34m40.49s	-19 19' 35.9"	32.252	31.241	14.2	174.1	0.2	18.36	188.51	3.84	263.2	Sgr
26 Jun 2012	18h34m34.10s	-19 19' 46.9"	32.253	31.240	14.2	174.8	0.2	18.26	189.51	3.84	263.1	Sgr
27 Jun 2012	18h34m27.70s	-19 19' 58.1"	32.253	31.240	14.2	175.4	0.1	18.14	190.51	3.85	263.1	Sgr
28 Jun 2012	18h34m21.30s	-19 20' 09.5"	32.254	31.240	14.2	175.8	0.1	18.02	191.51	3.85	263.0	Sgr
29 Jun 2012	18h34m14.90s	-19 20' 20.9"	32.254	31.240	14.2	176.1	0.1	17.89	192.50	3.85	262.9	Sgr
30 Jun 2012	18h34m08.49s	-19 20' 32.4"	32.255	31.241	14.2	176.1	0.1	17.74	193.49	3.85	262.9	Sgr
1 Jul 2012	18h34m02.09s	-19 20' 44.1"	32.256	31.241	14.2	175.9	0.1	17.59	194.48	3.85	262.8	Sgr
2 Jul 2012	18h33m55.69s	-19 20' 55.9"	32.256	31.243	14.2	175.5	0.1	17.43	195.47	3.84	262.7	Sgr
3 Jul 2012	18h33m49.30s	-19 21' 07.7"	32.257	31.244	14.2	174.9	0.2	17.25	196.45	3.84	262.7	Sgr
4 Jul 2012	18h33m42.91s	-19 21' 19.7"	32.257	31.246	14.2	174.2	0.2	17.07	197.43	3.83	262.6	Sgr
5 Jul 2012	18h33m36.54s	-19 21' 31.8"	32.258	31.248	14.2	173.5	0.2	16.87	198.41	3.83	262.5	Sgr
6 Jul 2012	18h33m30.18s	-19 21' 44.0"	32.258	31.250	14.2	172.7	0.2	16.67	199.39	3.82	262.4	Sgr
7 Jul 2012	18h33m23.84s	-19 21' 56.3"	32.259	31.252	14.2	171.8	0.3	16.45	200.36	3.81	262.4	Sgr
8 Jul 2012	18h33m17.51s	-19 22' 08.6"	32.260	31.255	14.2	170.9	0.3	16.22	201.32	3.80	262.3	Sgr
9 Jul 2012	18h33m11.21s	-19 22' 21.1"	32.260	31.258	14.2	170.1	0.3	15.99	202.29	3.79	262.2	Sgr
10 Jul 2012	18h33m04.92s	-19 22' 33.7"	32.261	31.262	14.2	169.1	0.3	15.74	203.24	3.77	262.1	Sgr
11 Jul 2012	18h32m58.66s	-19 22' 46.3"	32.261	31.265	14.2	168.2	0.4	15.49	204.20	3.76	262.0	Sgr
12 Jul 2012	18h32m52.43s	-19 22' 59.1"	32.262	31.269	14.2	167.3	0.4	15.23	205.15	3.74	261.9	Sgr
13 Jul 2012	18h32m46.22s	-19 23' 11.9"	32.262	31.274	14.2	166.4	0.4	14.95	206.10	3.72	261.9	Sgr
14 Jul 2012	18h32m40.05s	-19 23' 24.8"	32.263	31.278	14.2	165.4	0.5	14.67	207.04	3.70	261.8	Sgr
15 Jul 2012	18h32m33.91s	-19 23' 37.8"	32.263	31.283	14.2	164.5	0.5	14.38	207.98	3.68	261.7	Sgr
16 Jul 2012	18h32m27.81s	-19 23' 50.8"	32.264	31.288	14.2	163.5	0.5	14.08	208.91	3.66	261.6	Sgr
17 Jul 2012	18h32m21.75s	-19 24' 04.0"	32.265	31.293	14.2	162.6	0.5	13.77	209.84	3.64	261.5	Sgr
18 Jul 2012	18h32m15.72s	-19 24' 17.2"	32.265	31.299	14.2	161.6	0.6	13.45	210.77	3.61	261.4	Sgr
19 Jul 2012	18h32m09.75s	-19 24' 30.5"	32.266	31.305	14.2	160.7	0.6	13.13	211.69	3.59	261.3	Sgr
20 Jul 2012	18h32m03.81s	-19 24' 43.8"	32.266	31.311	14.2	159.7	0.6	12.79	212.60	3.56	261.1	Sgr
21 Jul 2012	18h31m57.93s	-19 24' 57.2"	32.267	31.318	14.2	158.7	0.7	12.45	213.51	3.53	261.0	Sgr
22 Jul 2012	18h31m52.10s	-19 25' 10.7"	32.267	31.324	14.2	157.8	0.7	12.10	214.42	3.50	260.9	Sgr
23 Jul 2012	18h31m46.32s	-19 25' 24.3"	32.268	31.332	14.2	156.8	0.7	11.74	215.32	3.47	260.8	Sgr
24 Jul 2012	18h31m40.59s	-19 25' 37.8"	32.269	31.339	14.2	155.9	0.7	11.37	216.22	3.43	260.7	Sgr
25 Jul 2012	18h31m34.92s	-19 25' 51.5"	32.269	31.346	14.2	154.9	0.8	10.99	217.11	3.40	260.5	Sgr
26 Jul 2012	18h31m29.31s	-19 26' 05.2"	32.270	31.354	14.2	153.9	0.8	10.61	218.00	3.36	260.4	Sgr
27 Jul 2012	18h31m23.77s	-19 26' 18.9"	32.270	31.362	14.2	153.0	0.8	10.22	218.88	3.33	260.3	Sgr
28 Jul 2012	18h31m18.29s	-19 26' 32.7"	32.271	31.371	14.2	152.0	0.8	9.82	219.76	3.29	260.1	Sgr
29 Jul 2012	18h31m12.87s	-19 26' 46.6"	32.271	31.379	14.2	151.0	0.9	9.42	220.63	3.25	260.0	Sgr
30 Jul 2012	18h31m07.52s	-19 27' 00.4"	32.272	31.388	14.2	150.1	0.9	9.01	221.50	3.21	259.8	Sgr
31 Jul 2012	18h31m02.24s	-19 27' 14.3"	32.272	31.397	14.2	149.1	0.9	8.59	222.36	3.17	259.7	Sgr
1 Aug 2012	18h30m57.03s	-19 27' 28.3"	32.273	31.407	14.2	148.1	1.0	8.16	223.22	3.13	259.5	Sgr
2 Aug 2012	18h30m51.90s	-19 27' 42.3"	32.274	31.416	14.2	147.2	1.0	7.73	224.07	3.08	259.3	Sgr
3 Aug 2012	18h30m46.84s	-19 27' 56.3"	32.274	31.426	14.2	146.2	1.0	7.29	224.92	3.04	259.1	Sgr
4 Aug 2012	18h30m41.85s	-19 28' 10.4"	32.275	31.436	14.2	145.2	1.0	6.85	225.76	2.99	259.0	Sgr
5 Aug 2012	18h30m36.95s	-19 28' 24.4"	32.275	31.447	14.2	144.2	1.1	6.40	226.60	2.95	258.8	Sgr
6 Aug 2012	18h30m32.12s	-19 28' 38.5"	32.276	31.457	14.2	143.3	1.1	5.94	227.44	2.90	258.6	Sgr
7 Aug 2012	18h30m27.38s	-19 28' 52.7"	32.276	31.468	14.2	142.3	1.1	5.48	228.27	2.85	258.3	Sgr
8 Aug 2012	18h30m22.72s	-19 29' 06.8"	32.277	31.479	14.2	141.3	1.1	5.01	229.10	2.80	258.1	Sgr
9 Aug 2012	18h30m18.14s	-19 29' 21.0"	32.278	31.490	14.2	140.4	1.1	4.53	229.92	2.75	257.9	Sgr

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<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>		
10 Aug 2012	18h30m13.66s	-19 29' 35.2"	32.278	31.502	14.2	139.4	1.2	4.05	230.74	2.70	257.6	Sgr	
11 Aug 2012	18h30m09.26s	-19 29' 49.4"	32.279	31.514	14.2	138.4	1.2	3.57	231.55	2.65	257.4	Sgr	
12 Aug 2012	18h30m04.96s	-19 30' 03.6"	32.279	31.525	14.2	137.4	1.2	3.08	232.36	2.59	257.1	Sgr	
13 Aug 2012	18h30m00.74s	-19 30' 17.8"	32.280	31.538	14.2	136.5	1.2	2.58	233.17	2.54	256.8	Sgr	
14 Aug 2012	18h29m56.62s	-19 30' 32.0"	32.280	31.550	14.2	135.5	1.3	2.08	233.97	2.48	256.5	Sgr	
15 Aug 2012	18h29m52.60s	-19 30' 46.3"	32.281	31.563	14.2	134.5	1.3	1.58	234.77	2.43	256.2	Sgr	
16 Aug 2012	18h29m48.68s	-19 31' 00.5"	32.282	31.575	14.2	133.6	1.3	1.06	235.57	2.37	255.9	Sgr	
17 Aug 2012	18h29m44.85s	-19 31' 14.7"	32.282	31.588	14.2	132.6	1.3	0.55	236.36	2.31	255.5	Sgr	
18 Aug 2012	18h29m41.13s	-19 31' 28.9"	32.283	31.602	14.2	131.6	1.3	0.03	237.15	2.25	255.1	Sgr	
19 Aug 2012	18h29m37.51s	-19 31' 43.1"	32.283	31.615	14.2	130.6	1.4	-0.49	237.93	2.19	254.7	Sgr	
20 Aug 2012	18h29m34.00s	-19 31' 57.3"	32.284	31.628	14.2	129.7	1.4	-1.02	238.71	2.13	254.3	Sgr	
21 Aug 2012	18h29m30.59s	-19 32' 11.5"	32.284	31.642	14.2	128.7	1.4	-1.55	239.49	2.07	253.8	Sgr	
22 Aug 2012	18h29m27.29s	-19 32' 25.7"	32.285	31.656	14.2	127.7	1.4	-2.09	240.26	2.01	253.3	Sgr	
23 Aug 2012	18h29m24.10s	-19 32' 39.8"	32.285	31.670	14.2	126.7	1.4	-2.63	241.03	1.94	252.8	Sgr	
24 Aug 2012	18h29m21.02s	-19 32' 54.0"	32.286	31.685	14.2	125.8	1.5	-3.17	241.80	1.88	252.2	Sgr	
25 Aug 2012	18h29m18.05s	-19 33' 08.1"	32.287	31.699	14.2	124.8	1.5	-3.72	242.57	1.82	251.6	Sgr	
26 Aug 2012	18h29m15.19s	-19 33' 22.2"	32.287	31.714	14.2	123.8	1.5	-4.27	243.33	1.75	251.0	Sgr	
27 Aug 2012	18h29m12.44s	-19 33' 36.2"	32.288	31.728	14.2	122.9	1.5	-4.83	244.09	1.69	250.3	Sgr	
28 Aug 2012	18h29m09.81s	-19 33' 50.2"	32.288	31.743	14.2	121.9	1.5	-5.38	244.85	1.62	249.5	Sgr	
29 Aug 2012	18h29m07.30s	-19 34' 04.2"	32.289	31.758	14.2	120.9	1.5	-5.94	245.61	1.56	248.7	Sgr	
30 Aug 2012	18h29m04.90s	-19 34' 18.2"	32.289	31.774	14.2	119.9	1.6	-6.51	246.36	1.49	247.7	Sgr	
31 Aug 2012	18h29m02.62s	-19 34' 32.1"	32.290	31.789	14.2	119.0	1.6	-7.08	247.12	1.43	246.7	Sgr	
1 Sep 2012	18h29m00.46s	-19 34' 46.0"	32.291	31.805	14.2	118.0	1.6	-7.64	247.87	1.36	245.6	Sgr	
2 Sep 2012	18h28m58.41s	-19 34' 59.8"	32.291	31.820	14.2	117.0	1.6	-8.22	248.62	1.30	244.4	Sgr	
3 Sep 2012	18h28m56.49s	-19 35' 13.6"	32.292	31.836	14.3	116.0	1.6	-8.79	249.36	1.23	243.0	Sgr	
4 Sep 2012	18h28m54.69s	-19 35' 27.4"	32.292	31.852	14.3	115.1	1.6	-9.37	250.11	1.17	241.5	Sgr	
5 Sep 2012	18h28m53.01s	-19 35' 41.1"	32.293	31.868	14.3	114.1	1.6	-9.95	250.85	1.10	239.8	Sgr	
6 Sep 2012	18h28m51.45s	-19 35' 54.7"	32.293	31.884	14.3	113.1	1.6	-10.53	251.60	1.04	237.9	Sgr	
7 Sep 2012	18h28m50.01s	-19 36' 08.3"	32.294	31.900	14.3	112.2	1.7	-11.12	252.34	0.98	235.7	Sgr	
8 Sep 2012	18h28m48.70s	-19 36' 21.9"	32.294	31.917	14.3	111.2	1.7	-11.70	253.08	0.91	233.2	Sgr	
9 Sep 2012	18h28m47.51s	-19 36' 35.3"	32.295	31.933	14.3	110.2	1.7	-12.29	253.82	0.85	230.3	Sgr	
10 Sep 2012	18h28m46.45s	-19 36' 48.8"	32.296	31.950	14.3	109.2	1.7	-12.88	254.56	0.80	227.0	Sgr	
11 Sep 2012	18h28m45.52s	-19 37' 02.1"	32.296	31.967	14.3	108.3	1.7	-13.47	255.30	0.74	223.2	Sgr	
12 Sep 2012	18h28m44.72s	-19 37' 15.4"	32.297	31.983	14.3	107.3	1.7	-14.07	256.04	0.69	218.7	Sgr	
13 Sep 2012	18h28m44.04s	-19 37' 28.7"	32.297	32.000	14.3	106.3	1.7	-14.66	256.78	0.64	213.5	Sgr	
14 Sep 2012	18h28m43.49s	-19 37' 41.8"	32.298	32.017	14.3	105.3	1.7	-15.26	257.52	0.60	207.5	Sgr	
15 Sep 2012	18h28m43.07s	-19 37' 54.9"	32.298	32.034	14.3	104.4	1.7	-15.86	258.26	0.57	200.7	Sgr	
16 Sep 2012	18h28m42.78s	-19 38' 07.9"	32.299	32.051	14.3	103.4	1.7	-16.45	259.00	0.54	193.1	Sgr	
17 Sep 2012	18h28m42.63s	-19 38' 20.8"	32.300	32.069	14.3	102.4	1.7	-17.06	259.74	0.52	184.9	Sgr	
18 Sep 2012	18h28m42.60s	-19 38' 33.7"	32.300	32.086	14.3	101.4	1.7	-17.66	260.48	0.52	176.3	Sgr	
19 Sep 2012	18h28m42.70s	-19 38' 46.4"	32.301	32.103	14.3	100.5	1.8	-18.26	261.22	0.53	167.8	Sgr	
20 Sep 2012	18h28m42.94s	-19 38' 59.1"	32.301	32.121	14.3	99.5	1.8	-18.86	261.96	0.55	159.7	Sgr	
21 Sep 2012	18h28m43.31s	-19 39' 11.7"	32.302	32.138	14.3	98.5	1.8	-19.47	262.71	0.57	152.2	Sgr	
22 Sep 2012	18h28m43.81s	-19 39' 24.2"	32.302	32.155	14.3	97.5	1.8	-20.07	263.45	0.61	145.5	Sgr	
23 Sep 2012	18h28m44.44s	-19 39' 36.6"	32.303	32.173	14.3	96.6	1.8	-20.68	264.20	0.66	139.7	Sgr	
24 Sep 2012	18h28m45.20s	-19 39' 48.9"	32.304	32.190	14.3	95.6	1.8	-21.28	264.95	0.71	134.7	Sgr	
25 Sep 2012	18h28m46.10s	-19 40' 01.2"	32.304	32.208	14.3	94.6	1.8	-21.89	265.70	0.76	130.3	Sgr	
26 Sep 2012	18h28m47.12s	-19 40' 13.3"	32.305	32.225	14.3	93.6	1.8	-22.49	266.45	0.82	126.6	Sgr	
27 Sep 2012	18h28m48.28s	-19 40' 25.3"	32.305	32.243	14.3	92.7	1.8	-23.10	267.21	0.88	123.3	Sgr	
28 Sep 2012	18h28m49.57s	-19 40' 37.2"	32.306	32.261	14.3	91.7	1.8	-23.71	267.97	0.95	120.5	Sgr	
29 Sep 2012	18h28m50.99s	-19 40' 49.0"	32.306	32.278	14.3	90.7	1.8	-24.31	268.73	1.01	118.1	Sgr	
30 Sep 2012	18h28m52.54s	-19 41' 00.8"	32.307	32.296	14.3	89.7	1.8	-24.92	269.49	1.08	116.0	Sgr	
1 Okt 2012	18h28m54.22s	-19 41' 12.4"	32.308	32.313	14.3	88.8	1.8	-25.52	270.26	1.15	114.1	Sgr	
2 Okt 2012	18h28m56.04s	-19 41' 23.9"	32.308	32.331	14.3	87.8	1.8	-26.13	271.03	1.22	112.4	Sgr	
3 Okt 2012	18h28m57.98s	-19 41' 35.3"	32.309	32.349	14.3	86.8	1.8	-26.73	271.81	1.29	110.9	Sgr	
4 Okt 2012	18h29m00.05s	-19 41' 46.5"	32.309	32.366	14.3	85.8	1.8	-27.34	272.58	1.36	109.5	Sgr	
5 Okt 2012	18h29m02.26s	-19 41' 57.7"	32.310	32.384	14.3	84.9	1.8	-27.94	273.37	1.43	108.3	Sgr	
6 Okt 2012	18h29m04.59s	-19 42' 08.7"	32.310	32.401	14.3	83.9	1.8	-28.54	274.15	1.50	107.2	Sgr	
7 Okt 2012	18h29m07.06s	-19 42' 19.6"	32.311	32.419	14.3	82.9	1.8	-29.15	274.95	1.57	106.2	Sgr	
8 Okt 2012	18h29m09.65s	-19 42' 30.4"	32.311	32.436	14.3	82.0	1.8	-29.75	275.74	1.65	105.3	Sgr	
9 Okt 2012	18h29m12.37s	-19 42' 41.1"	32.312	32.454	14.3	81.0	1.7	-30.35	276.55	1.72	104.5	Sgr	
10 Okt 2012	18h29m15.22s	-19 42' 51.6"	32.313	32.471	14.3	80.0	1.7	-30.94	277.35	1.79	103.7	Sgr	
11 Okt 2012	18h29m18.20s	-19 43' 02.1"	32.313	32.488	14.3	79.0	1.7	-31.54	278.17	1.86	103.0	Sgr	
12 Okt 2012	18h29m21.31s	-19 43' 12.3"	32.314	32.506	14.3	78.0	1.7	-32.14	278.98	1.94	102.3	Sgr	
13 Okt 2012	18h29m24.55s	-19 43' 22.5"	32.314	32.523	14.3	77.1	1.7	-32.73	279.81	2.01	101.7	Sgr	
14 Okt 2012	18h29m27.91s	-19 43' 32.5"	32.315	32.540	14.3	76.1	1.7	-33.32	280.64	2.08	101.1	Sgr	
15 Okt 2012	18h29m31.40s	-19 43' 42.4"	32.315	32.557	14.3	75.1	1.7	-33.91	281.48	2.16	100.6	Sgr	
16 Okt 2012	18h29m35.02s	-19 43' 52.1"	32.316	32.574	14.3	74.1	1.7	-34.50	282.33	2.23	100.1	Sgr	
17 Okt 2012	18h29m38.76s	-19 44' 01.7"	32.317	32.591	14.3	73.2	1.7	-35.08	283.18	2.30	99.7	Sgr	
18 Okt 2012	18h29m42.62s	-19 44' 11.2"	32.317	32.608	14.3	72.2	1.7	-35.67	284.04	2.37	99.2	Sgr	
19 Okt 2012	18h29m46.61s	-19 44' 20.5"	32.318	32.625	14.3	71.2	1.7	-36.25	284.91	2.44	98.8	Sgr	
20 Okt 2012	18h29m50.72s	-19 44' 29.6"	32.318	32.641	14.3	70.2	1.7	-36.83	285.79	2.51	98.4	Sgr	
21 Okt 2012	18h29m54.95s	-19 44' 38.7"	32.319	32.658	14.3	69.3	1.7	-37.40	286.67	2.58	98.1	Sgr	
22 Okt 2012	18h29m59.31s	-19 44' 47.5"	32.319	32.674	14.3	68.3	1.6	-37.97	287.57	2.65	97.7	Sgr	

# EPHEMERIDE 2012 – (134340) PLUTO

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
23 Okt 2012	18h30m03.78s	-19 44' 56.3"	32.320	32.691	14.3	67.3	1.6	-38.54	288.48	2.72	97.4 Sgr
24 Okt 2012	18h30m08.37s	-19 45' 04.8"	32.321	32.707	14.3	66.3	1.6	-39.11	289.39	2.79	97.1 Sgr
25 Okt 2012	18h30m13.08s	-19 45' 13.2"	32.321	32.723	14.3	65.4	1.6	-39.67	290.31	2.86	96.8 Sgr
26 Okt 2012	18h30m17.90s	-19 45' 21.5"	32.322	32.739	14.3	64.4	1.6	-40.23	291.25	2.92	96.5 Sgr
27 Okt 2012	18h30m22.84s	-19 45' 29.6"	32.322	32.755	14.3	63.4	1.6	-40.78	292.20	2.99	96.2 Sgr
28 Okt 2012	18h30m27.89s	-19 45' 37.6"	32.323	32.771	14.3	62.4	1.6	-41.33	293.15	3.06	96.0 Sgr
29 Okt 2012	18h30m33.05s	-19 45' 45.4"	32.323	32.786	14.3	61.5	1.5	-41.88	294.12	3.12	95.7 Sgr
30 Okt 2012	18h30m38.33s	-19 45' 53.0"	32.324	32.802	14.3	60.5	1.5	-42.42	295.10	3.19	95.5 Sgr
31 Okt 2012	18h30m43.71s	-19 46' 00.5"	32.325	32.817	14.3	59.5	1.5	-42.96	296.10	3.25	95.3 Sgr
1 Nov 2012	18h30m49.21s	-19 46' 07.8"	32.325	32.832	14.3	58.5	1.5	-43.49	297.10	3.31	95.1 Sgr
2 Nov 2012	18h30m54.81s	-19 46' 15.0"	32.326	32.847	14.3	57.6	1.5	-44.02	298.12	3.38	94.9 Sgr
3 Nov 2012	18h31m00.52s	-19 46' 22.0"	32.326	32.862	14.3	56.6	1.5	-44.54	299.15	3.44	94.7 Sgr
4 Nov 2012	18h31m06.34s	-19 46' 28.8"	32.327	32.877	14.3	55.6	1.5	-45.06	300.20	3.50	94.5 Sgr
5 Nov 2012	18h31m12.26s	-19 46' 35.5"	32.327	32.891	14.3	54.6	1.4	-45.57	301.26	3.56	94.3 Sgr
6 Nov 2012	18h31m18.29s	-19 46' 42.0"	32.328	32.906	14.3	53.7	1.4	-46.07	302.34	3.62	94.1 Sgr
7 Nov 2012	18h31m24.41s	-19 46' 48.3"	32.329	32.920	14.3	52.7	1.4	-46.57	303.43	3.68	93.9 Sgr
8 Nov 2012	18h31m30.64s	-19 46' 54.5"	32.329	32.934	14.3	51.7	1.4	-47.06	304.54	3.74	93.8 Sgr
9 Nov 2012	18h31m36.97s	-19 47' 00.5"	32.330	32.948	14.3	50.7	1.4	-47.55	305.66	3.80	93.6 Sgr
10 Nov 2012	18h31m43.40s	-19 47' 06.3"	32.330	32.961	14.3	49.7	1.3	-48.02	306.80	3.85	93.5 Sgr
11 Nov 2012	18h31m49.92s	-19 47' 11.9"	32.331	32.975	14.3	48.8	1.3	-48.50	307.95	3.91	93.3 Sgr
12 Nov 2012	18h31m56.54s	-19 47' 17.4"	32.331	32.988	14.3	47.8	1.3	-48.96	309.13	3.97	93.1 Sgr
13 Nov 2012	18h32m03.26s	-19 47' 22.7"	32.332	33.001	14.3	46.8	1.3	-49.41	310.32	4.02	93.0 Sgr
14 Nov 2012	18h32m10.06s	-19 47' 27.8"	32.333	33.014	14.3	45.8	1.3	-49.86	311.52	4.08	92.9 Sgr
15 Nov 2012	18h32m16.96s	-19 47' 32.7"	32.333	33.027	14.3	44.9	1.2	-50.30	312.75	4.13	92.7 Sgr
16 Nov 2012	18h32m23.94s	-19 47' 37.5"	32.334	33.039	14.3	43.9	1.2	-50.73	313.99	4.18	92.6 Sgr
17 Nov 2012	18h32m31.02s	-19 47' 42.1"	32.334	33.051	14.3	42.9	1.2	-51.15	315.25	4.23	92.5 Sgr
18 Nov 2012	18h32m38.18s	-19 47' 46.5"	32.335	33.063	14.3	41.9	1.2	-51.56	316.53	4.28	92.3 Sgr
19 Nov 2012	18h32m45.42s	-19 47' 50.8"	32.335	33.075	14.3	40.9	1.1	-51.96	317.83	4.33	92.2 Sgr
20 Nov 2012	18h32m52.74s	-19 47' 54.8"	32.336	33.087	14.3	40.0	1.1	-52.35	319.15	4.38	92.1 Sgr
21 Nov 2012	18h33m00.14s	-19 47' 58.7"	32.336	33.098	14.3	39.0	1.1	-52.73	320.49	4.42	92.0 Sgr
22 Nov 2012	18h33m07.63s	-19 48' 02.4"	32.337	33.109	14.3	38.0	1.1	-53.10	321.85	4.47	91.9 Sgr
23 Nov 2012	18h33m15.18s	-19 48' 06.0"	32.338	33.120	14.3	37.0	1.1	-53.46	323.23	4.51	91.8 Sgr
24 Nov 2012	18h33m22.81s	-19 48' 09.3"	32.338	33.131	14.3	36.1	1.0	-53.81	324.62	4.55	91.7 Sgr
25 Nov 2012	18h33m30.52s	-19 48' 12.5"	32.339	33.141	14.3	35.1	1.0	-54.15	326.04	4.60	91.6 Sgr
26 Nov 2012	18h33m38.29s	-19 48' 15.5"	32.339	33.152	14.3	34.1	1.0	-54.47	327.47	4.64	91.5 Sgr
27 Nov 2012	18h33m46.14s	-19 48' 18.3"	32.340	33.162	14.3	33.1	1.0	-54.78	328.92	4.68	91.4 Sgr
28 Nov 2012	18h33m54.05s	-19 48' 21.0"	32.340	33.171	14.3	32.2	0.9	-55.08	330.40	4.72	91.3 Sgr
29 Nov 2012	18h34m02.03s	-19 48' 23.5"	32.341	33.181	14.3	31.2	0.9	-55.36	331.89	4.75	91.2 Sgr
30 Nov 2012	18h34m10.07s	-19 48' 25.8"	32.342	33.190	14.3	30.2	0.9	-55.63	333.39	4.79	91.1 Sgr
1 Dez 2012	18h34m18.17s	-19 48' 27.9"	32.342	33.199	14.3	29.2	0.9	-55.89	334.92	4.83	91.0 Sgr
2 Dez 2012	18h34m26.33s	-19 48' 29.9"	32.343	33.208	14.3	28.3	0.8	-56.13	336.46	4.86	90.9 Sgr
3 Dez 2012	18h34m34.56s	-19 48' 31.6"	32.343	33.216	14.3	27.3	0.8	-56.36	338.02	4.90	90.8 Sgr
4 Dez 2012	18h34m42.83s	-19 48' 33.2"	32.344	33.224	14.3	26.3	0.8	-56.57	339.59	4.93	90.7 Sgr
5 Dez 2012	18h34m51.17s	-19 48' 34.7"	32.344	33.232	14.3	25.3	0.7	-56.77	341.18	4.96	90.6 Sgr
6 Dez 2012	18h34m59.55s	-19 48' 35.9"	32.345	33.240	14.3	24.4	0.7	-56.95	342.78	4.99	90.5 Sgr
7 Dez 2012	18h35m07.99s	-19 48' 37.0"	32.346	33.247	14.3	23.4	0.7	-57.11	344.40	5.02	90.5 Sgr
8 Dez 2012	18h35m16.48s	-19 48' 37.9"	32.346	33.255	14.3	22.4	0.7	-57.26	346.02	5.05	90.4 Sgr
9 Dez 2012	18h35m25.01s	-19 48' 38.6"	32.347	33.261	14.3	21.5	0.6	-57.40	347.66	5.07	90.3 Sgr
10 Dez 2012	18h35m33.59s	-19 48' 39.1"	32.347	33.268	14.3	20.5	0.6	-57.51	349.31	5.10	90.2 Sgr
11 Dez 2012	18h35m42.21s	-19 48' 39.5"	32.348	33.274	14.3	19.5	0.6	-57.61	350.96	5.13	90.1 Sgr
12 Dez 2012	18h35m50.88s	-19 48' 39.7"	32.348	33.280	14.4	18.6	0.6	-57.70	352.63	5.15	90.1 Sgr
13 Dez 2012	18h35m59.58s	-19 48' 39.8"	32.349	33.286	14.4	17.6	0.5	-57.76	354.29	5.17	90.0 Sgr
14 Dez 2012	18h36m08.32s	-19 48' 39.7"	32.350	33.292	14.4	16.6	0.5	-57.81	355.97	5.19	89.9 Sgr
15 Dez 2012	18h36m17.09s	-19 48' 39.4"	32.350	33.297	14.4	15.7	0.5	-57.85	357.64	5.21	89.8 Sgr
16 Dez 2012	18h36m25.89s	-19 48' 38.9"	32.351	33.302	14.4	14.7	0.4	-57.86	359.32	5.23	89.8 Sgr
17 Dez 2012	18h36m34.73s	-19 48' 38.3"	32.351	33.306	14.4	13.7	0.4	-57.86	1.00	5.25	89.7 Sgr
18 Dez 2012	18h36m43.59s	-19 48' 37.5"	32.352	33.311	14.4	12.8	0.4	-57.84	2.68	5.26	89.6 Sgr
19 Dez 2012	18h36m52.48s	-19 48' 36.6"	32.352	33.315	14.4	11.9	0.4	-57.80	4.35	5.28	89.6 Sgr
20 Dez 2012	18h37m01.39s	-19 48' 35.5"	32.353	33.319	14.4	10.9	0.3	-57.75	6.02	5.29	89.5 Sgr
21 Dez 2012	18h37m10.32s	-19 48' 34.2"	32.354	33.322	14.4	10.0	0.3	-57.68	7.69	5.30	89.4 Sgr
22 Dez 2012	18h37m19.27s	-19 48' 32.8"	32.354	33.325	14.4	9.1	0.3	-57.59	9.35	5.31	89.4 Sgr
23 Dez 2012	18h37m28.24s	-19 48' 31.2"	32.355	33.328	14.4	8.2	0.2	-57.49	11.00	5.32	89.3 Sgr
24 Dez 2012	18h37m37.22s	-19 48' 29.5"	32.355	33.331	14.4	7.3	0.2	-57.37	12.64	5.33	89.2 Sgr
25 Dez 2012	18h37m46.22s	-19 48' 27.7"	32.356	33.333	14.4	6.4	0.2	-57.23	14.27	5.33	89.2 Sgr
26 Dez 2012	18h37m55.22s	-19 48' 25.6"	32.356	33.335	14.4	5.6	0.2	-57.08	15.89	5.34	89.1 Sgr
27 Dez 2012	18h38m04.24s	-19 48' 23.5"	32.357	33.337	14.4	4.8	0.1	-56.91	17.50	5.34	89.0 Sgr
28 Dez 2012	18h38m13.26s	-19 48' 21.2"	32.358	33.338	14.4	4.2	0.1	-56.73	19.10	5.35	89.0 Sgr
29 Dez 2012	18h38m22.28s	-19 48' 18.7"	32.358	33.339	14.4	3.7	0.1	-56.53	20.68	5.35	88.9 Sgr
30 Dez 2012	18h38m31.31s	-19 48' 16.1"	32.359	33.340	14.4	3.4	0.1	-56.31	22.24	5.35	88.9 Sgr
31 Dez 2012	18h38m40.34s	-19 48' 13.4"	32.359	33.341	14.4	3.4	0.1	-56.08	23.79	5.35	88.8 Sgr
1 Jan 2013	18h38m49.37s	-19 48' 10.5"	32.360	33.341	14.4	3.6	0.1	-55.84	25.33	5.35	88.7 Sgr