



Die Bahn des Uranus 2012

# EPHEMERIDE 2012 – URANUS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
1 Jan 2012	00h03m37.04s	-00 23' 46.3"	20.076	20.209	5.9	80.9	2.8	-14.14	288.18	2.82	64.8 Psc
2 Jan 2012	00h03m41.15s	-00 23' 16.9"	20.076	20.226	5.9	79.9	2.8	-14.70	289.00	2.94	64.9 Psc
3 Jan 2012	00h03m45.44s	-00 22' 46.5"	20.076	20.243	5.9	78.9	2.8	-15.25	289.82	3.07	65.0 Psc
4 Jan 2012	00h03m49.92s	-00 22' 14.8"	20.076	20.260	5.9	77.9	2.7	-15.81	290.64	3.19	65.1 Psc
5 Jan 2012	00h03m54.57s	-00 21' 42.0"	20.076	20.276	5.9	76.9	2.7	-16.35	291.47	3.31	65.2 Psc
6 Jan 2012	00h03m59.40s	-00 21' 08.1"	20.076	20.293	5.9	75.9	2.7	-16.90	292.30	3.43	65.2 Psc
7 Jan 2012	00h04m04.41s	-00 20' 33.1"	20.076	20.310	5.9	74.9	2.7	-17.44	293.14	3.55	65.3 Psc
8 Jan 2012	00h04m09.59s	-00 19' 56.9"	20.076	20.326	5.9	73.9	2.7	-17.98	293.98	3.67	65.3 Psc
9 Jan 2012	00h04m14.94s	-00 19' 19.6"	20.076	20.343	5.9	72.9	2.7	-18.51	294.83	3.79	65.4 Psc
10 Jan 2012	00h04m20.46s	-00 18' 41.2"	20.076	20.359	5.9	71.9	2.7	-19.04	295.68	3.91	65.4 Psc
11 Jan 2012	00h04m26.16s	-00 18' 01.7"	20.076	20.376	5.9	70.9	2.7	-19.56	296.53	4.02	65.5 Psc
12 Jan 2012	00h04m32.02s	-00 17' 21.2"	20.076	20.392	5.9	69.9	2.6	-20.08	297.39	4.14	65.5 Psc
13 Jan 2012	00h04m38.06s	-00 16' 39.5"	20.076	20.408	5.9	68.9	2.6	-20.59	298.26	4.25	65.6 Psc
14 Jan 2012	00h04m44.25s	-00 15' 56.8"	20.076	20.424	5.9	67.9	2.6	-21.10	299.13	4.37	65.6 Psc
15 Jan 2012	00h04m50.62s	-00 15' 13.1"	20.076	20.440	5.9	67.0	2.6	-21.61	300.00	4.48	65.6 Psc
16 Jan 2012	00h04m57.15s	-00 14' 28.2"	20.076	20.456	5.9	66.0	2.6	-22.10	300.89	4.59	65.7 Psc
17 Jan 2012	00h05m03.84s	-00 13' 42.4"	20.076	20.472	5.9	65.0	2.5	-22.60	301.77	4.70	65.7 Psc
18 Jan 2012	00h05m10.69s	-00 12' 55.5"	20.076	20.487	5.9	64.0	2.5	-23.09	302.67	4.81	65.7 Psc
19 Jan 2012	00h05m17.71s	-00 12' 07.6"	20.075	20.503	5.9	63.0	2.5	-23.57	303.57	4.92	65.8 Psc
20 Jan 2012	00h05m24.88s	-00 11' 18.7"	20.075	20.518	5.9	62.0	2.5	-24.04	304.47	5.03	65.8 Psc
21 Jan 2012	00h05m32.20s	-00 10' 28.8"	20.075	20.533	5.9	61.0	2.5	-24.52	305.38	5.13	65.8 Psc
22 Jan 2012	00h05m39.69s	-00 09' 37.9"	20.075	20.548	5.9	60.1	2.4	-24.98	306.30	5.24	65.9 Psc
23 Jan 2012	00h05m47.32s	-00 08' 46.0"	20.075	20.563	5.9	59.1	2.4	-25.44	307.23	5.34	65.9 Psc
24 Jan 2012	00h05m55.11s	-00 07' 53.2"	20.075	20.578	5.9	58.1	2.4	-25.89	308.16	5.44	65.9 Psc
25 Jan 2012	00h06m03.05s	-00 06' 59.5"	20.075	20.593	5.9	57.1	2.4	-26.34	309.09	5.54	65.9 Psc
26 Jan 2012	00h06m11.13s	-00 06' 04.8"	20.075	20.607	5.9	56.1	2.3	-26.78	310.04	5.64	66.0 Psc
27 Jan 2012	00h06m19.36s	-00 05' 09.2"	20.075	20.622	5.9	55.1	2.3	-27.21	310.99	5.74	66.0 Psc
28 Jan 2012	00h06m27.73s	-00 04' 12.7"	20.075	20.636	5.9	54.2	2.3	-27.63	311.95	5.84	66.0 Psc
29 Jan 2012	00h06m36.24s	-00 03' 15.3"	20.075	20.650	5.9	53.2	2.3	-28.05	312.91	5.93	66.0 Psc
30 Jan 2012	00h06m44.89s	-00 02' 17.0"	20.075	20.663	5.9	52.2	2.2	-28.46	313.88	6.03	66.1 Psc
31 Jan 2012	00h06m53.67s	-00 01' 17.9"	20.075	20.677	5.9	51.2	2.2	-28.87	314.86	6.12	66.1 Psc
1 Feb 2012	00h07m02.59s	-00 00' 18.0"	20.075	20.690	5.9	50.3	2.2	-29.26	315.85	6.21	66.1 Psc
2 Feb 2012	00h07m11.64s	+00 00' 42.7"	20.075	20.704	5.9	49.3	2.1	-29.65	316.84	6.30	66.1 Psc
3 Feb 2012	00h07m20.82s	+00 01' 44.3"	20.075	20.717	5.9	48.3	2.1	-30.03	317.84	6.38	66.1 Psc
4 Feb 2012	00h07m30.12s	+00 02' 46.6"	20.075	20.729	5.9	47.3	2.1	-30.40	318.85	6.47	66.2 Psc
5 Feb 2012	00h07m39.55s	+00 03' 49.8"	20.075	20.742	5.9	46.4	2.0	-30.77	319.87	6.55	66.2 Psc
6 Feb 2012	00h07m49.10s	+00 04' 53.7"	20.075	20.755	5.9	45.4	2.0	-31.12	320.89	6.64	66.2 Psc
7 Feb 2012	00h07m58.78s	+00 05' 58.4"	20.075	20.767	5.9	44.4	2.0	-31.47	321.92	6.72	66.2 Psc
8 Feb 2012	00h08m08.57s	+00 07' 03.8"	20.075	20.779	5.9	43.5	1.9	-31.81	322.95	6.80	66.2 Psc
9 Feb 2012	00h08m18.47s	+00 08' 09.9"	20.075	20.791	5.9	42.5	1.9	-32.14	324.00	6.87	66.2 Psc
10 Feb 2012	00h08m28.49s	+00 09' 16.8"	20.074	20.802	5.9	41.5	1.9	-32.46	325.05	6.95	66.2 Psc
11 Feb 2012	00h08m38.62s	+00 10' 24.3"	20.074	20.814	5.9	40.6	1.8	-32.77	326.11	7.03	66.3 Psc
12 Feb 2012	00h08m48.86s	+00 11' 32.5"	20.074	20.825	5.9	39.6	1.8	-33.07	327.17	7.10	66.3 Psc
13 Feb 2012	00h08m59.21s	+00 12' 41.4"	20.074	20.836	5.9	38.6	1.8	-33.36	328.24	7.17	66.3 Psc
14 Feb 2012	00h09m09.66s	+00 13' 50.9"	20.074	20.847	5.9	37.7	1.7	-33.64	329.32	7.24	66.3 Psc
15 Feb 2012	00h09m20.22s	+00 15' 01.1"	20.074	20.857	5.9	36.7	1.7	-33.92	330.40	7.31	66.3 Psc
16 Feb 2012	00h09m30.88s	+00 16' 11.9"	20.074	20.868	5.9	35.8	1.6	-34.18	331.50	7.38	66.3 Psc
17 Feb 2012	00h09m41.63s	+00 17' 23.2"	20.074	20.878	5.9	34.8	1.6	-34.43	332.59	7.44	66.3 Psc
18 Feb 2012	00h09m52.48s	+00 18' 35.2"	20.074	20.887	5.9	33.8	1.6	-34.68	333.70	7.51	66.4 Psc
19 Feb 2012	00h10m03.43s	+00 19' 47.8"	20.074	20.897	5.9	32.9	1.5	-34.91	334.81	7.57	66.4 Psc
20 Feb 2012	00h10m14.47s	+00 21' 00.9"	20.074	20.906	5.9	31.9	1.5	-35.13	335.92	7.63	66.4 Psc
21 Feb 2012	00h10m25.59s	+00 22' 14.5"	20.074	20.915	5.9	31.0	1.5	-35.34	337.04	7.69	66.4 Psc
22 Feb 2012	00h10m36.80s	+00 23' 28.7"	20.074	20.924	5.9	30.0	1.4	-35.54	338.17	7.75	66.4 Psc
23 Feb 2012	00h10m48.09s	+00 24' 43.4"	20.074	20.933	5.9	29.0	1.4	-35.73	339.30	7.80	66.4 Psc
24 Feb 2012	00h10m59.47s	+00 25' 58.5"	20.074	20.941	5.9	28.1	1.3	-35.91	340.43	7.86	66.4 Psc
25 Feb 2012	00h11m10.92s	+00 27' 14.1"	20.074	20.949	5.9	27.1	1.3	-36.08	341.58	7.91	66.4 Psc
26 Feb 2012	00h11m22.45s	+00 28' 30.2"	20.074	20.957	5.9	26.2	1.2	-36.23	342.72	7.96	66.5 Psc
27 Feb 2012	00h11m34.05s	+00 29' 46.7"	20.074	20.965	5.9	25.2	1.2	-36.38	343.87	8.01	66.5 Psc
28 Feb 2012	00h11m45.72s	+00 31' 03.6"	20.074	20.972	5.9	24.3	1.2	-36.51	345.02	8.05	66.5 Psc
29 Feb 2012	00h11m57.45s	+00 32' 20.9"	20.074	20.979	5.9	23.3	1.1	-36.64	346.18	8.10	66.5 Psc
1 Mär 2012	00h12m09.25s	+00 33' 38.6"	20.074	20.986	5.9	22.4	1.1	-36.75	347.34	8.14	66.5 Psc
2 Mär 2012	00h12m21.11s	+00 34' 56.6"	20.074	20.993	5.9	21.4	1.0	-36.85	348.50	8.18	66.5 Psc
3 Mär 2012	00h12m33.03s	+00 36' 15.0"	20.073	20.999	5.9	20.5	1.0	-36.93	349.67	8.22	66.5 Psc
4 Mär 2012	00h12m45.01s	+00 37' 33.7"	20.073	21.005	5.9	19.5	0.9	-37.01	350.84	8.25	66.5 Psc
5 Mär 2012	00h12m57.04s	+00 38' 52.8"	20.073	21.011	5.9	18.6	0.9	-37.07	352.00	8.29	66.5 Psc
6 Mär 2012	00h13m09.12s	+00 40' 12.1"	20.073	21.017	5.9	17.6	0.9	-37.13	353.18	8.32	66.6 Psc
7 Mär 2012	00h13m21.25s	+00 41' 31.7"	20.073	21.022	5.9	16.7	0.8	-37.17	354.35	8.35	66.6 Psc
8 Mär 2012	00h13m33.43s	+00 42' 51.5"	20.073	21.027	5.9	15.8	0.8	-37.20	355.52	8.38	66.6 Psc
9 Mär 2012	00h13m45.65s	+00 44' 11.6"	20.073	21.031	5.9	14.8	0.7	-37.21	356.69	8.41	66.6 Psc
10 Mär 2012	00h13m57.91s	+00 45' 32.0"	20.073	21.036	5.9	13.9	0.7	-37.22	357.87	8.44	66.6 Psc
11 Mär 2012	00h14m10.21s	+00 46' 52.5"	20.073	21.040	5.9	12.9	0.6	-37.21	359.04	8.46	66.6 Psc
12 Mär 2012	00h14m22.55s	+00 48' 13.3"	20.073	21.044	5.9	12.0	0.6	-37.19	0.21	8.49	66.6 Psc
13 Mär 2012	00h14m34.92s	+00 49' 34.2"	20.073	21.048	5.9	11.1	0.5	-37.16	1.39	8.51	66.6 Psc
14 Mär 2012	00h14m47.33s	+00 50' 55.3"	20.073	21.051	5.9	10.1	0.5	-37.12	2.56	8.53	66.6 Psc

# EPHEMERIDE 2012 – URANUS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
15 Mär 2012	00h14m59.76s	+00 52' 16.5"	20.073	21.054	5.9	9.2	0.5	-37.07	3.73	8.55	66.6 Psc
16 Mär 2012	00h15m12.23s	+00 53' 37.9"	20.073	21.057	5.9	8.2	0.4	-37.00	4.89	8.56	66.7 Psc
17 Mär 2012	00h15m24.71s	+00 54' 59.4"	20.073	21.059	5.9	7.3	0.4	-36.92	6.06	8.58	66.7 Psc
18 Mär 2012	00h15m37.22s	+00 56' 21.0"	20.073	21.062	5.9	6.4	0.3	-36.83	7.22	8.59	66.7 Psc
19 Mär 2012	00h15m49.75s	+00 57' 42.7"	20.073	21.064	5.9	5.4	0.3	-36.73	8.38	8.60	66.7 Psc
20 Mär 2012	00h16m02.29s	+00 59' 04.5"	20.073	21.065	5.9	4.5	0.2	-36.62	9.53	8.61	66.7 Psc
21 Mär 2012	00h16m14.85s	+01 00' 26.2"	20.073	21.067	5.9	3.6	0.2	-36.50	10.69	8.62	66.7 Psc
22 Mär 2012	00h16m27.42s	+01 01' 48.1"	20.073	21.068	5.9	2.7	0.1	-36.36	11.83	8.62	66.7 Psc
23 Mär 2012	00h16m39.99s	+01 03' 09.9"	20.073	21.069	5.9	1.8	0.1	-36.22	12.98	8.63	66.7 Psc
24 Mär 2012	00h16m52.57s	+01 04' 31.7"	20.072	21.069	5.9	1.0	0.0	-36.06	14.12	8.63	66.7 Psc
25 Mär 2012	00h17m05.16s	+01 05' 53.5"	20.072	21.070	5.9	0.7	0.0	-35.89	15.25	8.63	66.7 Psc
26 Mär 2012	00h17m17.74s	+01 07' 15.2"	20.072	21.070	5.9	1.3	0.1	-35.71	16.38	8.63	66.8 Psc
27 Mär 2012	00h17m30.33s	+01 08' 36.9"	20.072	21.069	5.9	2.2	0.1	-35.52	17.50	8.62	66.8 Psc
28 Mär 2012	00h17m42.90s	+01 09' 58.5"	20.072	21.069	5.9	3.1	0.2	-35.32	18.62	8.62	66.8 Psc
29 Mär 2012	00h17m55.47s	+01 11' 20.0"	20.072	21.068	5.9	4.0	0.2	-35.11	19.73	8.61	66.8 Psc
30 Mär 2012	00h18m08.03s	+01 12' 41.4"	20.072	21.067	5.9	4.9	0.2	-34.89	20.84	8.60	66.8 Psc
31 Mär 2012	00h18m20.57s	+01 14' 02.7"	20.072	21.066	5.9	5.9	0.3	-34.66	21.94	8.59	66.8 Psc
1 Apr 2012	00h18m33.10s	+01 15' 23.8"	20.072	21.064	5.9	6.8	0.3	-34.41	23.04	8.58	66.8 Psc
2 Apr 2012	00h18m45.60s	+01 16' 44.8"	20.072	21.062	5.9	7.7	0.4	-34.16	24.12	8.56	66.8 Psc
3 Apr 2012	00h18m58.09s	+01 18' 05.5"	20.072	21.060	5.9	8.6	0.4	-33.90	25.21	8.54	66.8 Psc
4 Apr 2012	00h19m10.56s	+01 19' 26.1"	20.072	21.058	5.9	9.6	0.5	-33.63	26.28	8.53	66.8 Psc
5 Apr 2012	00h19m22.99s	+01 20' 46.5"	20.072	21.055	5.9	10.5	0.5	-33.35	27.35	8.51	66.8 Psc
6 Apr 2012	00h19m35.41s	+01 22' 06.6"	20.072	21.052	5.9	11.4	0.6	-33.06	28.41	8.49	66.9 Psc
7 Apr 2012	00h19m47.79s	+01 23' 26.6"	20.072	21.049	5.9	12.3	0.6	-32.76	29.46	8.46	66.9 Psc
8 Apr 2012	00h20m00.13s	+01 24' 46.2"	20.072	21.045	5.9	13.3	0.7	-32.45	30.51	8.44	66.9 Psc
9 Apr 2012	00h20m12.45s	+01 26' 05.6"	20.072	21.041	5.9	14.2	0.7	-32.13	31.55	8.41	66.9 Psc
10 Apr 2012	00h20m24.72s	+01 27' 24.8"	20.072	21.037	5.9	15.1	0.7	-31.80	32.58	8.39	66.9 Psc
11 Apr 2012	00h20m36.96s	+01 28' 43.6"	20.072	21.033	5.9	16.0	0.8	-31.47	33.60	8.36	66.9 Psc
12 Apr 2012	00h20m49.16s	+01 30' 02.1"	20.072	21.028	5.9	17.0	0.8	-31.12	34.62	8.33	66.9 Psc
13 Apr 2012	00h21m01.31s	+01 31' 20.3"	20.072	21.023	5.9	17.9	0.9	-30.77	35.63	8.29	66.9 Psc
14 Apr 2012	00h21m13.41s	+01 32' 38.1"	20.071	21.018	5.9	18.8	0.9	-30.41	36.63	8.26	66.9 Psc
15 Apr 2012	00h21m25.47s	+01 33' 55.6"	20.071	21.013	5.9	19.7	1.0	-30.04	37.63	8.23	66.9 Psc
16 Apr 2012	00h21m37.47s	+01 35' 12.7"	20.071	21.007	5.9	20.7	1.0	-29.67	38.62	8.19	67.0 Psc
17 Apr 2012	00h21m49.43s	+01 36' 29.4"	20.071	21.001	5.9	21.6	1.1	-29.28	39.60	8.15	67.0 Psc
18 Apr 2012	00h22m01.32s	+01 37' 45.8"	20.071	20.995	5.9	22.5	1.1	-28.89	40.57	8.11	67.0 Psc
19 Apr 2012	00h22m13.16s	+01 39' 01.6"	20.071	20.989	5.9	23.4	1.1	-28.49	41.54	8.07	67.0 Psc
20 Apr 2012	00h22m24.93s	+01 40' 17.1"	20.071	20.982	5.9	24.3	1.2	-28.09	42.49	8.02	67.0 Psc
21 Apr 2012	00h22m36.64s	+01 41' 32.1"	20.071	20.975	5.9	25.3	1.2	-27.68	43.44	7.98	67.0 Psc
22 Apr 2012	00h22m48.28s	+01 42' 46.6"	20.071	20.968	5.9	26.2	1.3	-27.26	44.39	7.93	67.0 Psc
23 Apr 2012	00h22m59.86s	+01 44' 00.6"	20.071	20.961	5.9	27.1	1.3	-26.83	45.33	7.88	67.0 Psc
24 Apr 2012	00h23m11.36s	+01 45' 14.1"	20.071	20.953	5.9	28.0	1.3	-26.40	46.26	7.83	67.0 Psc
25 Apr 2012	00h23m22.79s	+01 46' 27.1"	20.071	20.945	5.9	29.0	1.4	-25.96	47.18	7.77	67.0 Psc
26 Apr 2012	00h23m34.14s	+01 47' 39.6"	20.071	20.937	5.9	29.9	1.4	-25.51	48.10	7.72	67.1 Psc
27 Apr 2012	00h23m45.41s	+01 48' 51.5"	20.071	20.929	5.9	30.8	1.5	-25.06	49.01	7.66	67.1 Psc
28 Apr 2012	00h23m56.60s	+01 50' 02.9"	20.071	20.920	5.9	31.7	1.5	-24.60	49.91	7.61	67.1 Psc
29 Apr 2012	00h24m07.71s	+01 51' 13.6"	20.071	20.911	5.9	32.6	1.6	-24.14	50.81	7.55	67.1 Psc
30 Apr 2012	00h24m18.73s	+01 52' 23.8"	20.071	20.902	5.9	33.6	1.6	-23.67	51.70	7.49	67.1 Psc
1 Mai 2012	00h24m29.67s	+01 53' 33.4"	20.071	20.893	5.9	34.5	1.6	-23.20	52.58	7.43	67.1 Psc
2 Mai 2012	00h24m40.52s	+01 54' 42.4"	20.071	20.884	5.9	35.4	1.7	-22.72	53.46	7.36	67.1 Psc
3 Mai 2012	00h24m51.27s	+01 55' 50.8"	20.071	20.874	5.9	36.3	1.7	-22.23	54.33	7.30	67.1 Psc
4 Mai 2012	00h25m01.93s	+01 56' 58.5"	20.071	20.864	5.9	37.3	1.7	-21.74	55.20	7.23	67.1 Psc
5 Mai 2012	00h25m12.49s	+01 58' 05.5"	20.070	20.854	5.9	38.2	1.8	-21.25	56.06	7.17	67.2 Psc
6 Mai 2012	00h25m22.96s	+01 59' 11.9"	20.070	20.843	5.9	39.1	1.8	-20.75	56.91	7.10	67.2 Psc
7 Mai 2012	00h25m33.33s	+02 00' 17.6"	20.070	20.833	5.9	40.0	1.9	-20.24	57.76	7.03	67.2 Psc
8 Mai 2012	00h25m43.60s	+02 01' 22.7"	20.070	20.822	5.9	40.9	1.9	-19.73	58.60	6.96	67.2 Psc
9 Mai 2012	00h25m53.76s	+02 02' 27.0"	20.070	20.811	5.9	41.9	1.9	-19.22	59.44	6.88	67.2 Psc
10 Mai 2012	00h26m03.82s	+02 03' 30.6"	20.070	20.800	5.9	42.8	2.0	-18.70	60.28	6.81	67.2 Psc
11 Mai 2012	00h26m13.78s	+02 04' 33.5"	20.070	20.788	5.9	43.7	2.0	-18.18	61.10	6.74	67.2 Psc
12 Mai 2012	00h26m23.62s	+02 05' 35.7"	20.070	20.777	5.9	44.6	2.0	-17.65	61.93	6.66	67.2 Psc
13 Mai 2012	00h26m33.36s	+02 06' 37.1"	20.070	20.765	5.9	45.5	2.1	-17.12	62.75	6.58	67.3 Cet
14 Mai 2012	00h26m42.97s	+02 07' 37.7"	20.070	20.753	5.9	46.5	2.1	-16.59	63.56	6.50	67.3 Cet
15 Mai 2012	00h26m52.48s	+02 08' 37.6"	20.070	20.741	5.9	47.4	2.1	-16.05	64.37	6.42	67.3 Cet
16 Mai 2012	00h27m01.87s	+02 09' 36.7"	20.070	20.728	5.9	48.3	2.2	-15.51	65.18	6.34	67.3 Cet
17 Mai 2012	00h27m11.13s	+02 10' 35.0"	20.070	20.716	5.9	49.2	2.2	-14.96	65.98	6.26	67.3 Cet
18 Mai 2012	00h27m20.28s	+02 11' 32.4"	20.070	20.703	5.9	50.2	2.2	-14.42	66.78	6.17	67.3 Cet
19 Mai 2012	00h27m29.30s	+02 12' 29.0"	20.070	20.690	5.9	51.1	2.2	-13.86	67.57	6.09	67.3 Cet
20 Mai 2012	00h27m38.20s	+02 13' 24.8"	20.070	20.677	5.9	52.0	2.3	-13.31	68.36	6.00	67.4 Cet
21 Mai 2012	00h27m46.97s	+02 14' 19.7"	20.070	20.664	5.9	52.9	2.3	-12.75	69.15	5.91	67.4 Cet
22 Mai 2012	00h27m55.60s	+02 15' 13.8"	20.070	20.650	5.9	53.8	2.3	-12.19	69.93	5.82	67.4 Cet
23 Mai 2012	00h28m04.11s	+02 16' 07.0"	20.070	20.637	5.9	54.8	2.4	-11.63	70.71	5.73	67.4 Cet
24 Mai 2012	00h28m12.49s	+02 16' 59.3"	20.070	20.623	5.9	55.7	2.4	-11.06	71.49	5.63	67.4 Cet
25 Mai 2012	00h28m20.72s	+02 17' 50.7"	20.070	20.609	5.9	56.6	2.4	-10.49	72.27	5.54	67.4 Cet
26 Mai 2012	00h28m28.83s	+02 18' 41.2"	20.069	20.595	5.9	57.5	2.4	-9.92	73.04	5.44	67.5 Cet
27 Mai 2012	00h28m36.79s	+02 19' 30.7"	20.069	20.581	5.9	58.5	2.5	-9.35	73.81	5.35	67.5 Cet

# EPHEMERIDE 2012 – URANUS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
28 Mai 2012	00h28m44.61s	+02 20' 19.4"	20.069	20.566	5.9	59.4	2.5	-8.77	74.58	5.25	67.5 Cet
29 Mai 2012	00h28m52.29s	+02 21' 07.1"	20.069	20.552	5.9	60.3	2.5	-8.19	75.34	5.15	67.5 Cet
30 Mai 2012	00h28m59.83s	+02 21' 53.8"	20.069	20.537	5.9	61.2	2.5	-7.61	76.11	5.05	67.5 Cet
31 Mai 2012	00h29m07.22s	+02 22' 39.7"	20.069	20.523	5.9	62.2	2.6	-7.03	76.87	4.95	67.6 Cet
1 Jun 2012	00h29m14.47s	+02 23' 24.5"	20.069	20.508	5.9	63.1	2.6	-6.44	77.63	4.85	67.6 Cet
2 Jun 2012	00h29m21.57s	+02 24' 08.4"	20.069	20.493	5.9	64.0	2.6	-5.86	78.39	4.75	67.6 Cet
3 Jun 2012	00h29m28.52s	+02 24' 51.3"	20.069	20.478	5.9	64.9	2.6	-5.27	79.14	4.65	67.6 Cet
4 Jun 2012	00h29m35.33s	+02 25' 33.2"	20.069	20.462	5.9	65.9	2.6	-4.68	79.90	4.54	67.6 Cet
5 Jun 2012	00h29m41.98s	+02 26' 14.2"	20.069	20.447	5.9	66.8	2.7	-4.09	80.65	4.44	67.7 Cet
6 Jun 2012	00h29m48.48s	+02 26' 54.1"	20.069	20.432	5.9	67.7	2.7	-3.50	81.41	4.34	67.7 Cet
7 Jun 2012	00h29m54.83s	+02 27' 33.0"	20.069	20.416	5.9	68.6	2.7	-2.90	82.16	4.23	67.7 Cet
8 Jun 2012	00h30m01.02s	+02 28' 11.0"	20.069	20.400	5.9	69.6	2.7	-2.31	82.91	4.12	67.8 Cet
9 Jun 2012	00h30m07.06s	+02 28' 47.9"	20.069	20.385	5.9	70.5	2.7	-1.71	83.67	4.01	67.8 Cet
10 Jun 2012	00h30m12.94s	+02 29' 23.7"	20.069	20.369	5.9	71.4	2.7	-1.11	84.42	3.91	67.8 Cet
11 Jun 2012	00h30m18.66s	+02 29' 58.5"	20.069	20.353	5.9	72.4	2.8	-0.52	85.17	3.80	67.8 Cet
12 Jun 2012	00h30m24.22s	+02 30' 32.3"	20.069	20.337	5.9	73.3	2.8	0.08	85.92	3.68	67.9 Cet
13 Jun 2012	00h30m29.61s	+02 31' 05.0"	20.069	20.321	5.9	74.2	2.8	0.68	86.68	3.57	67.9 Cet
14 Jun 2012	00h30m34.85s	+02 31' 36.7"	20.069	20.305	5.9	75.2	2.8	1.28	87.43	3.46	68.0 Cet
15 Jun 2012	00h30m39.92s	+02 32' 07.2"	20.068	20.288	5.9	76.1	2.8	1.88	88.18	3.35	68.0 Cet
16 Jun 2012	00h30m44.83s	+02 32' 36.7"	20.068	20.272	5.9	77.0	2.8	2.49	88.94	3.23	68.0 Cet
17 Jun 2012	00h30m49.56s	+02 33' 05.1"	20.068	20.256	5.9	78.0	2.8	3.09	89.69	3.12	68.1 Cet
18 Jun 2012	00h30m54.13s	+02 33' 32.4"	20.068	20.239	5.9	78.9	2.8	3.69	90.45	3.00	68.1 Cet
19 Jun 2012	00h30m58.54s	+02 33' 58.6"	20.068	20.223	5.9	79.8	2.9	4.29	91.21	2.89	68.2 Cet
20 Jun 2012	00h31m02.77s	+02 34' 23.8"	20.068	20.206	5.8	80.8	2.9	4.89	91.96	2.77	68.3 Cet
21 Jun 2012	00h31m06.83s	+02 34' 47.8"	20.068	20.190	5.8	81.7	2.9	5.50	92.73	2.65	68.3 Cet
22 Jun 2012	00h31m10.72s	+02 35' 10.6"	20.068	20.173	5.8	82.6	2.9	6.10	93.49	2.53	68.4 Cet
23 Jun 2012	00h31m14.43s	+02 35' 32.4"	20.068	20.156	5.8	83.6	2.9	6.70	94.25	2.41	68.5 Cet
24 Jun 2012	00h31m17.97s	+02 35' 53.1"	20.068	20.140	5.8	84.5	2.9	7.30	95.02	2.29	68.6 Cet
25 Jun 2012	00h31m21.34s	+02 36' 12.6"	20.068	20.123	5.8	85.5	2.9	7.90	95.79	2.18	68.6 Cet
26 Jun 2012	00h31m24.54s	+02 36' 31.0"	20.068	20.106	5.8	86.4	2.9	8.50	96.56	2.06	68.7 Cet
27 Jun 2012	00h31m27.55s	+02 36' 48.2"	20.068	20.089	5.8	87.3	2.9	9.10	97.33	1.94	68.9 Cet
28 Jun 2012	00h31m30.40s	+02 37' 04.4"	20.068	20.073	5.8	88.3	2.9	9.70	98.11	1.82	69.0 Cet
29 Jun 2012	00h31m33.07s	+02 37' 19.4"	20.068	20.056	5.8	89.2	2.9	10.30	98.89	1.69	69.1 Cet
30 Jun 2012	00h31m35.56s	+02 37' 33.3"	20.068	20.039	5.8	90.2	2.9	10.89	99.68	1.57	69.3 Cet
1 Jul 2012	00h31m37.87s	+02 37' 46.0"	20.068	20.022	5.8	91.1	2.9	11.49	100.46	1.45	69.5 Cet
2 Jul 2012	00h31m40.01s	+02 37' 57.6"	20.068	20.006	5.8	92.0	2.9	12.08	101.25	1.33	69.7 Cet
3 Jul 2012	00h31m41.98s	+02 38' 08.1"	20.068	19.989	5.8	93.0	2.9	12.67	102.05	1.21	70.0 Cet
4 Jul 2012	00h31m43.76s	+02 38' 17.4"	20.068	19.972	5.8	93.9	2.9	13.26	102.85	1.09	70.3 Cet
5 Jul 2012	00h31m45.37s	+02 38' 25.6"	20.067	19.955	5.8	94.9	2.9	13.85	103.65	0.97	70.8 Cet
6 Jul 2012	00h31m46.81s	+02 38' 32.7"	20.067	19.939	5.8	95.8	2.9	14.44	104.46	0.85	71.3 Cet
7 Jul 2012	00h31m48.06s	+02 38' 38.6"	20.067	19.922	5.8	96.8	2.9	15.03	105.27	0.73	72.0 Cet
8 Jul 2012	00h31m49.14s	+02 38' 43.3"	20.067	19.905	5.8	97.7	2.9	15.61	106.08	0.61	73.0 Cet
9 Jul 2012	00h31m50.04s	+02 38' 47.0"	20.067	19.889	5.8	98.7	2.9	16.19	106.91	0.48	74.6 Cet
10 Jul 2012	00h31m50.76s	+02 38' 49.4"	20.067	19.872	5.8	99.6	2.9	16.77	107.73	0.36	77.1 Cet
11 Jul 2012	00h31m51.30s	+02 38' 50.8"	20.067	19.856	5.8	100.6	2.9	17.35	108.56	0.24	82.1 Cet
12 Jul 2012	00h31m51.66s	+02 38' 50.9"	20.067	19.839	5.8	101.5	2.8	17.92	109.40	0.13	96.4 Cet
13 Jul 2012	00h31m51.84s	+02 38' 50.0"	20.067	19.823	5.8	102.5	2.8	18.49	110.24	0.06	165.8 Cet
14 Jul 2012	00h31m51.85s	+02 38' 47.9"	20.067	19.807	5.8	103.4	2.8	19.06	111.09	0.15	221.4 Cet
15 Jul 2012	00h31m51.67s	+02 38' 44.6"	20.067	19.790	5.8	104.4	2.8	19.62	111.95	0.26	233.1 Cet
16 Jul 2012	00h31m51.32s	+02 38' 40.2"	20.067	19.774	5.8	105.3	2.8	20.19	112.81	0.38	237.5 Cet
17 Jul 2012	00h31m50.79s	+02 38' 34.7"	20.067	19.758	5.8	106.3	2.8	20.75	113.68	0.50	239.9 Cet
18 Jul 2012	00h31m50.08s	+02 38' 28.0"	20.067	19.742	5.8	107.3	2.8	21.30	114.55	0.62	241.3 Cet
19 Jul 2012	00h31m49.19s	+02 38' 20.2"	20.067	19.726	5.8	108.2	2.8	21.85	115.44	0.74	242.2 Cet
20 Jul 2012	00h31m48.13s	+02 38' 11.3"	20.067	19.710	5.8	109.2	2.7	22.40	116.33	0.87	242.9 Cet
21 Jul 2012	00h31m46.88s	+02 38' 01.3"	20.067	19.694	5.8	110.1	2.7	22.94	117.22	0.99	243.4 Cet
22 Jul 2012	00h31m45.46s	+02 37' 50.1"	20.067	19.678	5.8	111.1	2.7	23.48	118.13	1.11	243.8 Cet
23 Jul 2012	00h31m43.87s	+02 37' 37.8"	20.067	19.663	5.8	112.1	2.7	24.01	119.04	1.22	244.2 Cet
24 Jul 2012	00h31m42.10s	+02 37' 24.4"	20.066	19.647	5.8	113.0	2.7	24.54	119.96	1.34	244.4 Cet
25 Jul 2012	00h31m40.16s	+02 37' 09.9"	20.066	19.632	5.8	114.0	2.7	25.07	120.89	1.46	244.7 Cet
26 Jul 2012	00h31m38.05s	+02 36' 54.3"	20.066	19.617	5.8	115.0	2.6	25.59	121.82	1.58	244.9 Cet
27 Jul 2012	00h31m35.76s	+02 36' 37.7"	20.066	19.602	5.8	115.9	2.6	26.10	122.77	1.69	245.0 Cet
28 Jul 2012	00h31m33.31s	+02 36' 19.9"	20.066	19.587	5.8	116.9	2.6	26.61	123.72	1.81	245.2 Cet
29 Jul 2012	00h31m30.68s	+02 36' 01.1"	20.066	19.572	5.8	117.9	2.6	27.12	124.68	1.93	245.3 Cet
30 Jul 2012	00h31m27.89s	+02 35' 41.2"	20.066	19.557	5.8	118.8	2.5	27.61	125.66	2.04	245.4 Cet
31 Jul 2012	00h31m24.93s	+02 35' 20.3"	20.066	19.542	5.8	119.8	2.5	28.11	126.64	2.15	245.5 Cet
1 Aug 2012	00h31m21.81s	+02 34' 58.4"	20.066	19.528	5.8	120.8	2.5	28.59	127.63	2.26	245.6 Cet
2 Aug 2012	00h31m18.52s	+02 34' 35.3"	20.066	19.514	5.8	121.7	2.5	29.07	128.63	2.38	245.7 Cet
3 Aug 2012	00h31m15.07s	+02 34' 11.3"	20.066	19.500	5.8	122.7	2.4	29.54	129.64	2.49	245.7 Cet
4 Aug 2012	00h31m11.46s	+02 33' 46.3"	20.066	19.486	5.8	123.7	2.4	30.01	130.66	2.60	245.8 Cet
5 Aug 2012	00h31m07.69s	+02 33' 20.2"	20.066	19.472	5.8	124.7	2.4	30.47	131.68	2.71	245.9 Cet
6 Aug 2012	00h31m03.76s	+02 32' 53.1"	20.066	19.458	5.8	125.6	2.4	30.92	132.72	2.81	245.9 Cet
7 Aug 2012	00h30m59.67s	+02 32' 25.0"	20.066	19.445	5.8	126.6	2.3	31.36	133.77	2.92	246.0 Cet
8 Aug 2012	00h30m55.42s	+02 31' 56.0"	20.066	19.431	5.8	127.6	2.3	31.80	134.83	3.03	246.0 Cet
9 Aug 2012	00h30m51.02s	+02 31' 26.0"	20.066	19.418	5.8	128.6	2.3	32.22	135.90	3.13	246.1 Cet

# EPHEMERIDE 2012 – URANUS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
10 Aug 2012	00h30m46.47s	+02 30' 55.0"	20.066	19.405	5.8	129.5	2.2	32.64	136.98	3.24	246.1 Cet
11 Aug 2012	00h30m41.76s	+02 30' 23.0"	20.066	19.392	5.8	130.5	2.2	33.05	138.07	3.34	246.1 Cet
12 Aug 2012	00h30m36.90s	+02 29' 50.1"	20.065	19.380	5.8	131.5	2.2	33.45	139.18	3.44	246.2 Cet
13 Aug 2012	00h30m31.89s	+02 29' 16.3"	20.065	19.367	5.8	132.5	2.1	33.85	140.29	3.54	246.2 Cet
14 Aug 2012	00h30m26.74s	+02 28' 41.6"	20.065	19.355	5.8	133.5	2.1	34.23	141.41	3.64	246.3 Cet
15 Aug 2012	00h30m21.44s	+02 28' 05.9"	20.065	19.343	5.8	134.5	2.1	34.60	142.54	3.74	246.3 Cet
16 Aug 2012	00h30m16.00s	+02 27' 29.4"	20.065	19.331	5.8	135.4	2.0	34.97	143.69	3.83	246.3 Cet
17 Aug 2012	00h30m10.42s	+02 26' 52.0"	20.065	19.320	5.8	136.4	2.0	35.32	144.84	3.93	246.3 Cet
18 Aug 2012	00h30m04.70s	+02 26' 13.7"	20.065	19.308	5.8	137.4	2.0	35.66	146.01	4.02	246.4 Cet
19 Aug 2012	00h29m58.84s	+02 25' 34.6"	20.065	19.297	5.7	138.4	1.9	36.00	147.18	4.11	246.4 Cet
20 Aug 2012	00h29m52.85s	+02 24' 54.6"	20.065	19.286	5.7	139.4	1.9	36.32	148.37	4.20	246.4 Cet
21 Aug 2012	00h29m46.73s	+02 24' 13.8"	20.065	19.275	5.7	140.4	1.8	36.63	149.56	4.29	246.5 Cet
22 Aug 2012	00h29m40.48s	+02 23' 32.3"	20.065	19.265	5.7	141.4	1.8	36.93	150.77	4.38	246.5 Cet
23 Aug 2012	00h29m34.11s	+02 22' 49.9"	20.065	19.255	5.7	142.4	1.8	37.22	151.98	4.46	246.5 Cet
24 Aug 2012	00h29m27.61s	+02 22' 06.8"	20.065	19.245	5.7	143.4	1.7	37.49	153.21	4.55	246.5 Cet
25 Aug 2012	00h29m20.99s	+02 21' 23.0"	20.065	19.235	5.7	144.4	1.7	37.76	154.44	4.63	246.5 Cet
26 Aug 2012	00h29m14.25s	+02 20' 38.4"	20.065	19.225	5.7	145.4	1.6	38.01	155.69	4.70	246.6 Cet
27 Aug 2012	00h29m07.40s	+02 19' 53.2"	20.065	19.216	5.7	146.3	1.6	38.25	156.94	4.78	246.6 Cet
28 Aug 2012	00h29m00.44s	+02 19' 07.2"	20.065	19.207	5.7	147.3	1.6	38.47	158.20	4.86	246.6 Cet
29 Aug 2012	00h28m53.37s	+02 18' 20.6"	20.065	19.198	5.7	148.3	1.5	38.69	159.47	4.93	246.6 Cet
30 Aug 2012	00h28m46.19s	+02 17' 33.3"	20.065	19.189	5.7	149.3	1.5	38.89	160.74	5.00	246.6 Cet
31 Aug 2012	00h28m38.91s	+02 16' 45.4"	20.064	19.181	5.7	150.3	1.4	39.07	162.03	5.07	246.6 Cet
1 Sep 2012	00h28m31.52s	+02 15' 56.9"	20.064	19.173	5.7	151.3	1.4	39.25	163.32	5.14	246.7 Cet
2 Sep 2012	00h28m24.04s	+02 15' 07.7"	20.064	19.165	5.7	152.3	1.3	39.41	164.61	5.20	246.7 Cet
3 Sep 2012	00h28m16.46s	+02 14' 18.0"	20.064	19.158	5.7	153.3	1.3	39.55	165.92	5.27	246.7 Cet
4 Sep 2012	00h28m08.79s	+02 13' 27.7"	20.064	19.150	5.7	154.3	1.2	39.68	167.23	5.33	246.7 Cet
5 Sep 2012	00h28m01.03s	+02 12' 36.9"	20.064	19.143	5.7	155.3	1.2	39.80	168.54	5.39	246.7 Cet
6 Sep 2012	00h27m53.19s	+02 11' 45.6"	20.064	19.137	5.7	156.4	1.2	39.91	169.86	5.45	246.7 Cet
7 Sep 2012	00h27m45.26s	+02 10' 53.7"	20.064	19.130	5.7	157.4	1.1	40.00	171.18	5.50	246.8 Cet
8 Sep 2012	00h27m37.24s	+02 10' 01.4"	20.064	19.124	5.7	158.4	1.1	40.07	172.51	5.55	246.8 Cet
9 Sep 2012	00h27m29.15s	+02 09' 08.6"	20.064	19.118	5.7	159.4	1.0	40.13	173.84	5.61	246.8 Cet
10 Sep 2012	00h27m20.99s	+02 08' 15.3"	20.064	19.113	5.7	160.4	1.0	40.18	175.17	5.65	246.8 Cet
11 Sep 2012	00h27m12.75s	+02 07' 21.6"	20.064	19.107	5.7	161.4	0.9	40.21	176.50	5.70	246.8 Cet
12 Sep 2012	00h27m04.45s	+02 06' 27.6"	20.064	19.102	5.7	162.4	0.9	40.22	177.84	5.75	246.8 Cet
13 Sep 2012	00h26m56.08s	+02 05' 33.1"	20.064	19.097	5.7	163.4	0.8	40.22	179.17	5.79	246.8 Cet
14 Sep 2012	00h26m47.65s	+02 04' 38.3"	20.064	19.093	5.7	164.4	0.8	40.21	180.51	5.83	246.8 Cet
15 Sep 2012	00h26m39.16s	+02 03' 43.2"	20.064	19.089	5.7	165.4	0.7	40.18	181.84	5.86	246.9 Cet
16 Sep 2012	00h26m30.62s	+02 02' 47.8"	20.064	19.085	5.7	166.4	0.7	40.14	183.18	5.90	246.9 Cet
17 Sep 2012	00h26m22.03s	+02 01' 52.1"	20.064	19.081	5.7	167.5	0.6	40.08	184.51	5.93	246.9 Psc
18 Sep 2012	00h26m13.40s	+02 00' 56.1"	20.064	19.078	5.7	168.5	0.6	40.01	185.84	5.96	246.9 Psc
19 Sep 2012	00h26m04.72s	+01 59' 59.9"	20.063	19.075	5.7	169.5	0.5	39.92	187.17	5.99	246.9 Psc
20 Sep 2012	00h25m56.00s	+01 59' 03.5"	20.063	19.072	5.7	170.5	0.5	39.82	188.49	6.01	246.9 Psc
21 Sep 2012	00h25m47.25s	+01 58' 06.9"	20.063	19.070	5.7	171.5	0.4	39.70	189.81	6.03	246.9 Psc
22 Sep 2012	00h25m38.47s	+01 57' 10.2"	20.063	19.068	5.7	172.5	0.4	39.57	191.13	6.05	247.0 Psc
23 Sep 2012	00h25m29.66s	+01 56' 13.3"	20.063	19.066	5.7	173.5	0.3	39.43	192.44	6.07	247.0 Psc
24 Sep 2012	00h25m20.82s	+01 55' 16.4"	20.063	19.064	5.7	174.5	0.3	39.27	193.75	6.08	247.0 Psc
25 Sep 2012	00h25m11.97s	+01 54' 19.3"	20.063	19.063	5.7	175.6	0.2	39.10	195.05	6.09	247.0 Psc
26 Sep 2012	00h25m03.10s	+01 53' 22.2"	20.063	19.062	5.7	176.6	0.2	38.91	196.34	6.10	247.0 Psc
27 Sep 2012	00h24m54.22s	+01 52' 25.0"	20.063	19.062	5.7	177.5	0.1	38.71	197.63	6.10	247.0 Psc
28 Sep 2012	00h24m45.34s	+01 51' 27.8"	20.063	19.061	5.7	178.5	0.1	38.50	198.91	6.11	247.0 Psc
29 Sep 2012	00h24m36.44s	+01 50' 30.6"	20.063	19.061	5.7	179.2	0.0	38.27	200.18	6.11	247.0 Psc
30 Sep 2012	00h24m27.55s	+01 49' 33.5"	20.063	19.062	5.7	179.0	0.1	38.03	201.44	6.11	247.1 Psc
1 Okt 2012	00h24m18.65s	+01 48' 36.4"	20.063	19.062	5.7	178.1	0.1	37.78	202.70	6.10	247.1 Psc
2 Okt 2012	00h24m09.77s	+01 47' 39.4"	20.063	19.063	5.7	177.1	0.1	37.52	203.94	6.10	247.1 Psc
3 Okt 2012	00h24m00.89s	+01 46' 42.5"	20.063	19.064	5.7	176.1	0.2	37.24	205.18	6.09	247.1 Psc
4 Okt 2012	00h23m52.02s	+01 45' 45.7"	20.063	19.066	5.7	175.1	0.2	36.95	206.41	6.08	247.1 Psc
5 Okt 2012	00h23m43.17s	+01 44' 49.0"	20.063	19.068	5.7	174.1	0.3	36.65	207.63	6.06	247.1 Psc
6 Okt 2012	00h23m34.34s	+01 43' 52.6"	20.063	19.070	5.7	173.1	0.3	36.34	208.84	6.05	247.1 Psc
7 Okt 2012	00h23m25.54s	+01 42' 56.3"	20.062	19.072	5.7	172.1	0.4	36.01	210.04	6.03	247.1 Psc
8 Okt 2012	00h23m16.76s	+01 42' 00.2"	20.062	19.075	5.7	171.0	0.4	35.68	211.23	6.01	247.2 Psc
9 Okt 2012	00h23m08.01s	+01 41' 04.4"	20.062	19.078	5.7	170.0	0.5	35.33	212.41	5.98	247.2 Psc
10 Okt 2012	00h22m59.30s	+01 40' 08.8"	20.062	19.081	5.7	169.0	0.5	34.97	213.58	5.96	247.2 Psc
11 Okt 2012	00h22m50.63s	+01 39' 13.6"	20.062	19.085	5.7	168.0	0.6	34.60	214.74	5.93	247.2 Psc
12 Okt 2012	00h22m41.99s	+01 38' 18.7"	20.062	19.089	5.7	166.9	0.6	34.22	215.89	5.90	247.2 Psc
13 Okt 2012	00h22m33.41s	+01 37' 24.1"	20.062	19.093	5.7	165.9	0.7	33.84	217.03	5.86	247.2 Psc
14 Okt 2012	00h22m24.88s	+01 36' 29.8"	20.062	19.097	5.7	164.9	0.7	33.44	218.16	5.83	247.3 Psc
15 Okt 2012	00h22m16.39s	+01 35' 36.0"	20.062	19.102	5.7	163.9	0.8	33.03	219.28	5.79	247.3 Psc
16 Okt 2012	00h22m07.97s	+01 34' 42.6"	20.062	19.107	5.7	162.8	0.8	32.61	220.39	5.74	247.3 Psc
17 Okt 2012	00h21m59.61s	+01 33' 49.6"	20.062	19.113	5.7	161.8	0.9	32.19	221.49	5.70	247.3 Psc
18 Okt 2012	00h21m51.32s	+01 32' 57.1"	20.062	19.118	5.7	160.8	0.9	31.75	222.57	5.65	247.3 Psc
19 Okt 2012	00h21m43.09s	+01 32' 05.1"	20.062	19.124	5.7	159.7	1.0	31.31	223.65	5.60	247.3 Psc
20 Okt 2012	00h21m34.94s	+01 31' 13.6"	20.062	19.131	5.7	158.7	1.0	30.86	224.72	5.55	247.4 Psc
21 Okt 2012	00h21m26.87s	+01 30' 22.6"	20.062	19.137	5.7	157.7	1.1	30.40	225.78	5.49	247.4 Psc
22 Okt 2012	00h21m18.88s	+01 29' 32.2"	20.062	19.144	5.7	156.7	1.1	29.93	226.82	5.43	247.4 Psc

# EPHEMERIDE 2012 – URANUS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
23 Okt 2012	00h21m10.97s	+01 28' 42.4"	20.062	19.151	5.7	155.6	1.2	29.46	227.86	5.38	247.4 Psc
24 Okt 2012	00h21m03.15s	+01 27' 53.2"	20.062	19.159	5.7	154.6	1.2	28.98	228.89	5.31	247.4 Psc
25 Okt 2012	00h20m55.42s	+01 27' 04.6"	20.061	19.166	5.7	153.6	1.3	28.49	229.91	5.25	247.5 Psc
26 Okt 2012	00h20m47.78s	+01 26' 16.6"	20.061	19.174	5.7	152.5	1.3	27.99	230.91	5.18	247.5 Psc
27 Okt 2012	00h20m40.24s	+01 25' 29.3"	20.061	19.182	5.7	151.5	1.4	27.49	231.91	5.11	247.5 Psc
28 Okt 2012	00h20m32.80s	+01 24' 42.7"	20.061	19.191	5.7	150.5	1.4	26.99	232.90	5.04	247.5 Psc
29 Okt 2012	00h20m25.46s	+01 23' 56.8"	20.061	19.200	5.7	149.4	1.4	26.47	233.89	4.97	247.5 Psc
30 Okt 2012	00h20m18.23s	+01 23' 11.6"	20.061	19.209	5.7	148.4	1.5	25.95	234.86	4.90	247.6 Psc
31 Okt 2012	00h20m11.11s	+01 22' 27.1"	20.061	19.218	5.7	147.4	1.5	25.43	235.82	4.82	247.6 Psc
1 Nov 2012	00h20m04.10s	+01 21' 43.4"	20.061	19.227	5.7	146.3	1.6	24.90	236.78	4.74	247.6 Psc
2 Nov 2012	00h19m57.20s	+01 21' 00.5"	20.061	19.237	5.7	145.3	1.6	24.36	237.72	4.66	247.6 Psc
3 Nov 2012	00h19m50.42s	+01 20' 18.4"	20.061	19.247	5.7	144.3	1.7	23.82	238.66	4.58	247.7 Psc
4 Nov 2012	00h19m43.76s	+01 19' 37.1"	20.061	19.258	5.7	143.2	1.7	23.27	239.59	4.49	247.7 Psc
5 Nov 2012	00h19m37.23s	+01 18' 56.6"	20.061	19.268	5.7	142.2	1.7	22.72	240.52	4.41	247.7 Psc
6 Nov 2012	00h19m30.82s	+01 18' 17.0"	20.061	19.279	5.7	141.2	1.8	22.17	241.43	4.32	247.8 Psc
7 Nov 2012	00h19m24.54s	+01 17' 38.2"	20.061	19.290	5.7	140.2	1.8	21.61	242.34	4.23	247.8 Psc
8 Nov 2012	00h19m18.39s	+01 17' 00.3"	20.061	19.301	5.7	139.1	1.9	21.04	243.24	4.14	247.8 Psc
9 Nov 2012	00h19m12.38s	+01 16' 23.4"	20.061	19.313	5.8	138.1	1.9	20.48	244.14	4.04	247.9 Psc
10 Nov 2012	00h19m06.50s	+01 15' 47.3"	20.061	19.324	5.8	137.1	1.9	19.91	245.02	3.95	247.9 Psc
11 Nov 2012	00h19m00.76s	+01 15' 12.2"	20.061	19.336	5.8	136.0	2.0	19.33	245.90	3.85	248.0 Psc
12 Nov 2012	00h18m55.17s	+01 14' 38.0"	20.060	19.348	5.8	135.0	2.0	18.75	246.78	3.75	248.0 Psc
13 Nov 2012	00h18m49.72s	+01 14' 04.9"	20.060	19.361	5.8	134.0	2.0	18.17	247.65	3.65	248.1 Psc
14 Nov 2012	00h18m44.43s	+01 13' 32.7"	20.060	19.373	5.8	132.9	2.1	17.59	248.51	3.54	248.1 Psc
15 Nov 2012	00h18m39.28s	+01 13' 01.5"	20.060	19.386	5.8	131.9	2.1	17.00	249.37	3.44	248.2 Psc
16 Nov 2012	00h18m34.29s	+01 12' 31.3"	20.060	19.399	5.8	130.9	2.1	16.41	250.22	3.33	248.2 Psc
17 Nov 2012	00h18m29.45s	+01 12' 02.2"	20.060	19.412	5.8	129.8	2.2	15.82	251.07	3.22	248.3 Psc
18 Nov 2012	00h18m24.77s	+01 11' 34.2"	20.060	19.426	5.8	128.8	2.2	15.23	251.91	3.11	248.3 Psc
19 Nov 2012	00h18m20.25s	+01 11' 07.1"	20.060	19.439	5.8	127.8	2.2	14.63	252.74	3.00	248.4 Psc
20 Nov 2012	00h18m15.90s	+01 10' 41.2"	20.060	19.453	5.8	126.8	2.3	14.03	253.58	2.89	248.5 Psc
21 Nov 2012	00h18m11.70s	+01 10' 16.3"	20.060	19.467	5.8	125.7	2.3	13.43	254.40	2.77	248.6 Psc
22 Nov 2012	00h18m07.68s	+01 09' 52.6"	20.060	19.481	5.8	124.7	2.3	12.83	255.23	2.66	248.7 Psc
23 Nov 2012	00h18m03.82s	+01 09' 29.9"	20.060	19.495	5.8	123.7	2.3	12.23	256.04	2.54	248.8 Psc
24 Nov 2012	00h18m00.13s	+01 09' 08.4"	20.060	19.510	5.8	122.6	2.4	11.62	256.86	2.43	248.9 Psc
25 Nov 2012	00h17m56.60s	+01 08' 47.9"	20.060	19.525	5.8	121.6	2.4	11.02	257.67	2.31	249.0 Psc
26 Nov 2012	00h17m53.26s	+01 08' 28.6"	20.060	19.539	5.8	120.6	2.4	10.41	258.48	2.19	249.1 Psc
27 Nov 2012	00h17m50.08s	+01 08' 10.5"	20.060	19.554	5.8	119.6	2.5	9.80	259.28	2.07	249.3 Psc
28 Nov 2012	00h17m47.08s	+01 07' 53.4"	20.060	19.569	5.8	118.5	2.5	9.19	260.08	1.95	249.4 Psc
29 Nov 2012	00h17m44.25s	+01 07' 37.6"	20.060	19.585	5.8	117.5	2.5	8.58	260.88	1.83	249.6 Psc
30 Nov 2012	00h17m41.60s	+01 07' 22.9"	20.059	19.600	5.8	116.5	2.5	7.97	261.68	1.71	249.8 Psc
1 Dez 2012	00h17m39.13s	+01 07' 09.4"	20.059	19.616	5.8	115.5	2.5	7.36	262.47	1.59	250.1 Psc
2 Dez 2012	00h17m36.83s	+01 06' 57.0"	20.059	19.631	5.8	114.4	2.6	6.75	263.26	1.46	250.4 Psc
3 Dez 2012	00h17m34.72s	+01 06' 45.8"	20.059	19.647	5.8	113.4	2.6	6.14	264.05	1.34	250.7 Psc
4 Dez 2012	00h17m32.79s	+01 06' 35.8"	20.059	19.663	5.8	112.4	2.6	5.53	264.84	1.21	251.2 Psc
5 Dez 2012	00h17m31.04s	+01 06' 27.1"	20.059	19.679	5.8	111.4	2.6	4.92	265.62	1.09	251.7 Psc
6 Dez 2012	00h17m29.48s	+01 06' 19.5"	20.059	19.695	5.8	110.4	2.6	4.30	266.41	0.96	252.4 Psc
7 Dez 2012	00h17m28.10s	+01 06' 13.1"	20.059	19.711	5.8	109.3	2.7	3.69	267.19	0.83	253.2 Psc
8 Dez 2012	00h17m26.90s	+01 06' 08.0"	20.059	19.728	5.8	108.3	2.7	3.08	267.97	0.71	254.4 Psc
9 Dez 2012	00h17m25.89s	+01 06' 04.0"	20.059	19.744	5.8	107.3	2.7	2.47	268.75	0.58	256.1 Psc
10 Dez 2012	00h17m25.07s	+01 06' 01.3"	20.059	19.761	5.8	106.3	2.7	1.86	269.53	0.45	258.8 Psc
11 Dez 2012	00h17m24.44s	+01 05' 59.8"	20.059	19.777	5.8	105.3	2.7	1.25	270.31	0.33	263.6 Psc
12 Dez 2012	00h17m24.00s	+01 05' 59.6"	20.059	19.794	5.8	104.2	2.7	0.64	271.08	0.21	274.3 Psc
13 Dez 2012	00h17m23.75s	+01 06' 00.6"	20.059	19.811	5.8	103.2	2.7	0.03	271.86	0.11	308.3 Psc
14 Dez 2012	00h17m23.68s	+01 06' 02.8"	20.059	19.827	5.8	102.2	2.7	-0.57	272.64	0.12	16.8 Psc
15 Dez 2012	00h17m23.81s	+01 06' 06.3"	20.059	19.844	5.8	101.2	2.8	-1.18	273.41	0.23	42.6 Psc
16 Dez 2012	00h17m24.13s	+01 06' 11.0"	20.059	19.861	5.8	100.2	2.8	-1.78	274.19	0.36	51.3 Psc
17 Dez 2012	00h17m24.64s	+01 06' 17.0"	20.059	19.878	5.8	99.2	2.8	-2.39	274.97	0.48	55.5 Psc
18 Dez 2012	00h17m25.35s	+01 06' 24.2"	20.058	19.895	5.8	98.1	2.8	-2.99	275.74	0.61	57.9 Psc
19 Dez 2012	00h17m26.24s	+01 06' 32.6"	20.058	19.912	5.8	97.1	2.8	-3.59	276.52	0.74	59.5 Psc
20 Dez 2012	00h17m27.33s	+01 06' 42.3"	20.058	19.930	5.8	96.1	2.8	-4.19	277.30	0.87	60.6 Psc
21 Dez 2012	00h17m28.60s	+01 06' 53.2"	20.058	19.947	5.8	95.1	2.8	-4.78	278.08	1.00	61.4 Psc
22 Dez 2012	00h17m30.07s	+01 07' 05.3"	20.058	19.964	5.8	94.1	2.8	-5.38	278.86	1.13	62.0 Psc
23 Dez 2012	00h17m31.72s	+01 07' 18.7"	20.058	19.981	5.8	93.1	2.8	-5.97	279.65	1.26	62.5 Psc
24 Dez 2012	00h17m33.57s	+01 07' 33.3"	20.058	19.998	5.8	92.1	2.8	-6.56	280.43	1.39	62.9 Psc
25 Dez 2012	00h17m35.60s	+01 07' 49.1"	20.058	20.016	5.8	91.1	2.8	-7.15	281.21	1.52	63.3 Psc
26 Dez 2012	00h17m37.82s	+01 08' 06.1"	20.058	20.033	5.8	90.1	2.8	-7.74	282.00	1.65	63.6 Psc
27 Dez 2012	00h17m40.23s	+01 08' 24.3"	20.058	20.050	5.8	89.1	2.8	-8.32	282.79	1.78	63.8 Psc
28 Dez 2012	00h17m42.83s	+01 08' 43.8"	20.058	20.067	5.8	88.0	2.8	-8.90	283.58	1.91	64.0 Psc
29 Dez 2012	00h17m45.62s	+01 09' 04.4"	20.058	20.085	5.8	87.0	2.8	-9.48	284.38	2.03	64.2 Psc
30 Dez 2012	00h17m48.59s	+01 09' 26.3"	20.058	20.102	5.8	86.0	2.8	-10.05	285.17	2.16	64.3 Psc
31 Dez 2012	00h17m51.74s	+01 09' 49.3"	20.058	20.119	5.8	85.0	2.8	-10.63	285.97	2.29	64.5 Psc
1 Jan 2013	00h17m55.09s	+01 10' 13.6"	20.058	20.136	5.8	84.0	2.8	-11.20	286.78	2.41	64.6 Psc