



Die Bahn des Planeten Saturn 2018

# EPHEMERIDE 2018 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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1 Jan 2018	18h04m58.21s	-22 32' 07.6"	10.065	11.034	0.5	9.2	0.9	-55.69	39.75	17.67	90.0	Sgr
2 Jan 2018	18h05m28.59s	-22 32' 06.9"	10.065	11.032	0.5	10.1	1.0	-55.35	41.02	17.63	90.0	Sgr
3 Jan 2018	18h05m58.92s	-22 32' 05.7"	10.065	11.028	0.5	11.0	1.1	-55.00	42.26	17.60	89.9	Sgr
4 Jan 2018	18h06m29.19s	-22 32' 04.1"	10.065	11.025	0.5	11.9	1.2	-54.64	43.49	17.56	89.8	Sgr
5 Jan 2018	18h06m59.39s	-22 32' 02.1"	10.065	11.022	0.5	12.8	1.2	-54.27	44.70	17.52	89.8	Sgr
6 Jan 2018	18h07m29.53s	-22 31' 59.7"	10.065	11.018	0.5	13.7	1.3	-53.89	45.89	17.48	89.7	Sgr
7 Jan 2018	18h07m59.59s	-22 31' 56.8"	10.065	11.014	0.5	14.6	1.4	-53.50	47.06	17.44	89.7	Sgr
8 Jan 2018	18h08m29.57s	-22 31' 53.5"	10.065	11.009	0.5	15.5	1.5	-53.11	48.22	17.39	89.6	Sgr
9 Jan 2018	18h08m59.47s	-22 31' 49.9"	10.065	11.005	0.5	16.4	1.6	-52.71	49.36	17.34	89.6	Sgr
10 Jan 2018	18h09m29.28s	-22 31' 45.8"	10.065	11.000	0.5	17.3	1.7	-52.30	50.48	17.28	89.5	Sgr
11 Jan 2018	18h09m58.99s	-22 31' 41.3"	10.065	10.995	0.5	18.2	1.7	-51.89	51.59	17.23	89.5	Sgr
12 Jan 2018	18h10m28.61s	-22 31' 36.4"	10.065	10.989	0.5	19.1	1.8	-51.47	52.68	17.17	89.4	Sgr
13 Jan 2018	18h10m58.12s	-22 31' 31.1"	10.065	10.984	0.5	20.0	1.9	-51.04	53.75	17.10	89.3	Sgr
14 Jan 2018	18h11m27.52s	-22 31' 25.5"	10.065	10.978	0.5	20.9	2.0	-50.61	54.81	17.04	89.3	Sgr
15 Jan 2018	18h11m56.80s	-22 31' 19.4"	10.065	10.972	0.5	21.8	2.1	-50.17	55.86	16.97	89.2	Sgr
16 Jan 2018	18h12m25.96s	-22 31' 13.0"	10.065	10.965	0.5	22.7	2.2	-49.72	56.89	16.89	89.2	Sgr
17 Jan 2018	18h12m55.00s	-22 31' 06.2"	10.065	10.959	0.5	23.6	2.2	-49.27	57.90	16.82	89.1	Sgr
18 Jan 2018	18h13m23.90s	-22 30' 59.1"	10.065	10.952	0.5	24.5	2.3	-48.81	58.90	16.74	89.1	Sgr
19 Jan 2018	18h13m52.66s	-22 30' 51.6"	10.065	10.945	0.5	25.4	2.4	-48.35	59.89	16.66	89.0	Sgr
20 Jan 2018	18h14m21.29s	-22 30' 43.7"	10.065	10.938	0.5	26.3	2.5	-47.89	60.86	16.57	89.0	Sgr
21 Jan 2018	18h14m49.76s	-22 30' 35.6"	10.065	10.930	0.5	27.2	2.6	-47.41	61.83	16.49	88.9	Sgr
22 Jan 2018	18h15m18.08s	-22 30' 27.0"	10.065	10.922	0.5	28.1	2.6	-46.94	62.78	16.39	88.9	Sgr
23 Jan 2018	18h15m46.24s	-22 30' 18.2"	10.065	10.914	0.5	29.0	2.7	-46.46	63.71	16.30	88.8	Sgr
24 Jan 2018	18h16m14.24s	-22 30' 09.0"	10.065	10.906	0.5	30.0	2.8	-45.97	64.64	16.20	88.8	Sgr
25 Jan 2018	18h16m42.08s	-22 29' 59.5"	10.065	10.898	0.5	30.9	2.9	-45.49	65.55	16.10	88.7	Sgr
26 Jan 2018	18h17m09.73s	-22 29' 49.7"	10.065	10.889	0.5	31.8	3.0	-44.99	66.45	16.00	88.7	Sgr
27 Jan 2018	18h17m37.21s	-22 29' 39.7"	10.065	10.880	0.5	32.7	3.0	-44.50	67.35	15.90	88.6	Sgr
28 Jan 2018	18h18m04.51s	-22 29' 29.3"	10.065	10.871	0.5	33.6	3.1	-44.00	68.23	15.79	88.6	Sgr
29 Jan 2018	18h18m31.62s	-22 29' 18.6"	10.065	10.861	0.5	34.5	3.2	-43.49	69.10	15.68	88.5	Sgr
30 Jan 2018	18h18m58.55s	-22 29' 07.7"	10.065	10.852	0.5	35.4	3.3	-42.99	69.96	15.57	88.5	Sgr
31 Jan 2018	18h19m25.27s	-22 28' 56.5"	10.065	10.842	0.6	36.3	3.3	-42.48	70.81	15.45	88.4	Sgr
1 Feb 2018	18h19m51.80s	-22 28' 45.1"	10.065	10.832	0.6	37.2	3.4	-41.96	71.66	15.34	88.4	Sgr
2 Feb 2018	18h20m18.13s	-22 28' 33.4"	10.065	10.822	0.6	38.2	3.5	-41.45	72.49	15.22	88.3	Sgr
3 Feb 2018	18h20m44.24s	-22 28' 21.5"	10.065	10.811	0.6	39.1	3.5	-40.93	73.32	15.09	88.3	Sgr
4 Feb 2018	18h21m10.15s	-22 28' 09.4"	10.065	10.801	0.6	40.0	3.6	-40.40	74.14	14.97	88.2	Sgr
5 Feb 2018	18h21m35.83s	-22 27' 57.1"	10.065	10.790	0.6	40.9	3.7	-39.88	74.95	14.84	88.2	Sgr
6 Feb 2018	18h22m01.30s	-22 27' 44.5"	10.065	10.779	0.6	41.8	3.7	-39.35	75.75	14.71	88.1	Sgr
7 Feb 2018	18h22m26.54s	-22 27' 31.8"	10.065	10.768	0.6	42.7	3.8	-38.82	76.55	14.58	88.1	Sgr
8 Feb 2018	18h22m51.55s	-22 27' 18.9"	10.065	10.756	0.6	43.6	3.9	-38.29	77.34	14.44	88.0	Sgr
9 Feb 2018	18h23m16.32s	-22 27' 05.8"	10.065	10.744	0.6	44.6	3.9	-37.76	78.12	14.30	88.0	Sgr
10 Feb 2018	18h23m40.85s	-22 26' 52.6"	10.065	10.733	0.6	45.5	4.0	-37.22	78.89	14.16	87.9	Sgr
11 Feb 2018	18h24m05.13s	-22 26' 39.2"	10.065	10.721	0.6	46.4	4.1	-36.68	79.66	14.02	87.9	Sgr
12 Feb 2018	18h24m29.17s	-22 26' 25.7"	10.065	10.708	0.6	47.3	4.1	-36.14	80.43	13.87	87.9	Sgr
13 Feb 2018	18h24m52.94s	-22 26' 12.0"	10.065	10.696	0.6	48.2	4.2	-35.60	81.18	13.72	87.8	Sgr
14 Feb 2018	18h25m14.46s	-22 25' 58.3"	10.065	10.683	0.6	49.2	4.3	-35.05	81.94	13.56	87.8	Sgr
15 Feb 2018	18h25m39.71s	-22 25' 44.4"	10.065	10.671	0.6	50.1	4.3	-34.51	82.68	13.41	87.7	Sgr
16 Feb 2018	18h26m02.68s	-22 25' 30.4"	10.065	10.658	0.6	51.0	4.4	-33.96	83.43	13.25	87.7	Sgr
17 Feb 2018	18h26m25.39s	-22 25' 16.4"	10.065	10.645	0.6	51.9	4.4	-33.41	84.16	13.09	87.6	Sgr
18 Feb 2018	18h26m47.81s	-22 25' 02.2"	10.065	10.631	0.6	52.8	4.5	-32.86	84.90	12.92	87.6	Sgr
19 Feb 2018	18h27m09.95s	-22 24' 48.0"	10.065	10.618	0.6	53.8	4.5	-32.31	85.63	12.75	87.6	Sgr
20 Feb 2018	18h27m31.79s	-22 24' 33.8"	10.065	10.605	0.6	54.7	4.6	-31.75	86.35	12.58	87.5	Sgr
21 Feb 2018	18h27m53.35s	-22 24' 19.5"	10.065	10.591	0.6	55.6	4.7	-31.20	87.07	12.41	87.5	Sgr
22 Feb 2018	18h28m14.60s	-22 24' 05.2"	10.065	10.577	0.6	56.5	4.7	-30.64	87.79	12.24	87.4	Sgr
23 Feb 2018	18h28m35.56s	-22 23' 50.8"	10.065	10.563	0.6	57.5	4.8	-30.09	88.51	12.06	87.4	Sgr
24 Feb 2018	18h28m56.21s	-22 23' 36.5"	10.065	10.549	0.6	58.4	4.8	-29.53	89.22	11.88	87.4	Sgr
25 Feb 2018	18h29m16.55s	-22 23' 22.1"	10.065	10.534	0.6	59.3	4.9	-28.97	89.93	11.70	87.3	Sgr
26 Feb 2018	18h29m36.58s	-22 23' 07.8"	10.065	10.520	0.6	60.2	4.9	-28.41	90.63	11.52	87.3	Sgr
27 Feb 2018	18h29m56.29s	-22 22' 53.5"	10.065	10.505	0.6	61.2	4.9	-27.85	91.34	11.33	87.2	Sgr
28 Feb 2018	18h30m15.68s	-22 22' 39.2"	10.065	10.491	0.6	62.1	5.0	-27.29	92.04	11.14	87.2	Sgr
1 Mar 2018	18h30m34.75s	-22 22' 25.0"	10.065	10.476	0.6	63.0	5.0	-26.73	92.73	10.96	87.2	Sgr
2 Mar 2018	18h30m53.50s	-22 22' 10.8"	10.065	10.461	0.6	64.0	5.1	-26.17	93.43	10.76	87.1	Sgr
3 Mar 2018	18h31m11.91s	-22 21' 56.7"	10.065	10.446	0.6	64.9	5.1	-25.61	94.13	10.57	87.1	Sgr
4 Mar 2018	18h31m29.99s	-22 21' 42.7"	10.065	10.431	0.6	65.8	5.2	-25.04	94.82	10.38	87.1	Sgr
5 Mar 2018	18h31m47.74s	-22 21' 28.8"	10.065	10.415	0.6	66.8	5.2	-24.48	95.51	10.18	87.0	Sgr
6 Mar 2018	18h32m05.14s	-22 21' 15.0"	10.066	10.400	0.6	67.7	5.2	-23.92	96.20	9.98	87.0	Sgr
7 Mar 2018	18h32m22.20s	-22 21' 01.3"	10.066	10.385	0.6	68.6	5.3	-23.35	96.89	9.78	87.0	Sgr
8 Mar 2018	18h32m38.91s	-22 20' 47.8"	10.066	10.369	0.6	69.6	5.3	-22.79	97.58	9.57	86.9	Sgr
9 Mar 2018	18h32m55.27s	-22 20' 34.3"	10.066	10.353	0.5	70.5	5.3	-22.23	98.27	9.36	86.9	Sgr
10 Mar 2018	18h33m11.27s	-22 20' 21.1"	10.066	10.337	0.5	71.4	5.4	-21.67	98.95	9.16	86.9	Sgr
11 Mar 2018	18h33m26.91s	-22 20' 08.0"	10.066	10.322	0.5	72.4	5.4	-21.10	99.64	8.94	86.9	Sgr
12 Mar 2018	18h33m42.19s	-22 19' 55.0"	10.066	10.306	0.5	73.3	5.4	-20.54	100.32	8.73	86.8	Sgr
13 Mar 2018	18h33m57.10s	-22 19' 42.3"	10.066	10.290	0.5	74.3	5.5	-19.98	101.01	8.51	86.8	Sgr
14 Mar 2018	18h34m11.64s	-22 19' 29.7"	10.066	10.273	0.5	75.2	5.5	-19.42	101.69	8.30	86.8	Sgr
15 Mar 2018	18h34m25.81s	-22 19' 17.4"	10.066	10.257	0.5	76.1	5.5	-18.85	102.38	8.08	86.7	Sgr

# EPHEMERIDE 2018 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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16 Mar 2018	18h34m39.60s	-22 19' 05.2"	10.066	10.241	0.5	77.1	5.5	-18.29	103.07	7.86	86.7	Sgr
17 Mar 2018	18h34m53.00s	-22 18' 53.3"	10.066	10.225	0.5	78.0	5.5	-17.73	103.75	7.63	86.7	Sgr
18 Mar 2018	18h35m06.02s	-22 18' 41.6"	10.066	10.208	0.5	79.0	5.6	-17.17	104.44	7.41	86.7	Sgr
19 Mar 2018	18h35m18.65s	-22 18' 30.2"	10.066	10.192	0.5	79.9	5.6	-16.62	105.13	7.18	86.6	Sgr
20 Mar 2018	18h35m30.90s	-22 18' 19.0"	10.066	10.175	0.5	80.9	5.6	-16.06	105.82	6.95	86.6	Sgr
21 Mar 2018	18h35m42.75s	-22 18' 08.0"	10.066	10.159	0.5	81.8	5.6	-15.50	106.51	6.72	86.6	Sgr
22 Mar 2018	18h35m54.20s	-22 17' 57.3"	10.066	10.142	0.5	82.8	5.6	-14.94	107.20	6.49	86.6	Sgr
23 Mar 2018	18h36m05.26s	-22 17' 46.9"	10.066	10.126	0.5	83.7	5.6	-14.39	107.89	6.25	86.6	Sgr
24 Mar 2018	18h36m15.92s	-22 17' 36.8"	10.066	10.109	0.5	84.7	5.7	-13.84	108.58	6.02	86.5	Sgr
25 Mar 2018	18h36m26.17s	-22 17' 27.0"	10.066	10.093	0.5	85.6	5.7	-13.28	109.28	5.79	86.5	Sgr
26 Mar 2018	18h36m36.03s	-22 17' 17.5"	10.066	10.076	0.5	86.6	5.7	-12.73	109.97	5.55	86.5	Sgr
27 Mar 2018	18h36m45.48s	-22 17' 08.3"	10.066	10.059	0.5	87.5	5.7	-12.19	110.67	5.31	86.5	Sgr
28 Mar 2018	18h36m54.52s	-22 16' 59.4"	10.066	10.042	0.5	88.5	5.7	-11.64	111.37	5.07	86.5	Sgr
29 Mar 2018	18h37m03.15s	-22 16' 50.9"	10.066	10.026	0.5	89.4	5.7	-11.09	112.08	4.84	86.5	Sgr
30 Mar 2018	18h37m11.38s	-22 16' 42.6"	10.066	10.009	0.5	90.4	5.7	-10.55	112.78	4.60	86.4	Sgr
31 Mar 2018	18h37m19.20s	-22 16' 34.8"	10.066	9.992	0.5	91.4	5.7	-10.01	113.49	4.36	86.4	Sgr
1 Apr 2018	18h37m26.60s	-22 16' 27.2"	10.066	9.976	0.5	92.3	5.7	-9.47	114.20	4.11	86.4	Sgr
2 Apr 2018	18h37m33.59s	-22 16' 20.0"	10.066	9.959	0.5	93.3	5.7	-8.93	114.91	3.87	86.4	Sgr
3 Apr 2018	18h37m40.17s	-22 16' 13.2"	10.066	9.942	0.5	94.2	5.7	-8.39	115.62	3.63	86.4	Sgr
4 Apr 2018	18h37m46.33s	-22 16' 06.8"	10.066	9.926	0.5	95.2	5.7	-7.86	116.34	3.39	86.4	Sgr
5 Apr 2018	18h37m52.07s	-22 16' 00.7"	10.066	9.909	0.5	96.2	5.7	-7.33	117.06	3.14	86.4	Sgr
6 Apr 2018	18h37m57.39s	-22 15' 55.0"	10.066	9.893	0.5	97.1	5.7	-6.80	117.79	2.89	86.4	Sgr
7 Apr 2018	18h38m02.29s	-22 15' 49.7"	10.066	9.876	0.5	98.1	5.6	-6.27	118.51	2.65	86.4	Sgr
8 Apr 2018	18h38m06.77s	-22 15' 44.8"	10.066	9.860	0.5	99.0	5.6	-5.75	119.24	2.40	86.5	Sgr
9 Apr 2018	18h38m10.82s	-22 15' 40.3"	10.066	9.843	0.5	100.0	5.6	-5.23	119.98	2.15	86.5	Sgr
10 Apr 2018	18h38m14.45s	-22 15' 36.1"	10.066	9.827	0.5	101.0	5.6	-4.71	120.71	1.90	86.5	Sgr
11 Apr 2018	18h38m17.65s	-22 15' 32.4"	10.066	9.810	0.4	102.0	5.6	-4.20	121.46	1.65	86.6	Sgr
12 Apr 2018	18h38m20.43s	-22 15' 29.1"	10.066	9.794	0.4	102.9	5.6	-3.69	122.20	1.40	86.6	Sgr
13 Apr 2018	18h38m22.77s	-22 15' 26.2"	10.066	9.778	0.4	103.9	5.5	-3.18	122.95	1.15	86.7	Sgr
14 Apr 2018	18h38m24.69s	-22 15' 23.7"	10.066	9.762	0.4	104.9	5.5	-2.67	123.70	0.90	86.9	Sgr
15 Apr 2018	18h38m26.18s	-22 15' 21.6"	10.066	9.745	0.4	105.8	5.5	-2.17	124.46	0.65	87.1	Sgr
16 Apr 2018	18h38m27.25s	-22 15' 20.0"	10.066	9.729	0.4	106.8	5.5	-1.68	125.22	0.40	87.8	Sgr
17 Apr 2018	18h38m27.88s	-22 15' 18.7"	10.066	9.713	0.4	107.8	5.4	-1.18	125.98	0.15	90.5	Sgr
18 Apr 2018	18h38m28.09s	-22 15' 17.9"	10.066	9.698	0.4	108.8	5.4	-0.70	126.75	0.10	259.4	Sgr
19 Apr 2018	18h38m27.87s	-22 15' 17.5"	10.066	9.682	0.4	109.7	5.4	-0.21	127.53	0.35	264.2	Sgr
20 Apr 2018	18h38m27.23s	-22 15' 17.5"	10.066	9.666	0.4	110.7	5.4	0.27	128.30	0.60	265.0	Sgr
21 Apr 2018	18h38m26.17s	-22 15' 17.9"	10.066	9.651	0.4	111.7	5.3	0.75	129.09	0.84	265.3	Sgr
22 Apr 2018	18h38m24.68s	-22 15' 18.8"	10.066	9.635	0.4	112.7	5.3	1.22	129.87	1.09	265.5	Sgr
23 Apr 2018	18h38m22.77s	-22 15' 20.1"	10.066	9.620	0.4	113.7	5.2	1.69	130.67	1.33	265.6	Sgr
24 Apr 2018	18h38m20.44s	-22 15' 21.8"	10.066	9.605	0.4	114.7	5.2	2.15	131.46	1.58	265.6	Sgr
25 Apr 2018	18h38m17.70s	-22 15' 23.9"	10.066	9.589	0.4	115.6	5.2	2.61	132.27	1.82	265.7	Sgr
26 Apr 2018	18h38m14.54s	-22 15' 26.4"	10.066	9.574	0.4	116.6	5.1	3.06	133.07	2.06	265.7	Sgr
27 Apr 2018	18h38m10.97s	-22 15' 29.4"	10.066	9.560	0.4	117.6	5.1	3.50	133.89	2.30	265.7	Sgr
28 Apr 2018	18h38m06.99s	-22 15' 32.8"	10.066	9.545	0.4	118.6	5.0	3.95	134.70	2.54	265.8	Sgr
29 Apr 2018	18h38m02.61s	-22 15' 36.5"	10.066	9.530	0.4	119.6	5.0	4.38	135.53	2.78	265.8	Sgr
30 Apr 2018	18h37m57.81s	-22 15' 40.8"	10.066	9.516	0.4	120.6	4.9	4.81	136.35	3.02	265.8	Sgr
1 Mai 2018	18h37m52.62s	-22 15' 45.4"	10.066	9.502	0.3	121.6	4.9	5.24	137.19	3.25	265.8	Sgr
2 Mai 2018	18h37m47.02s	-22 15' 50.4"	10.066	9.487	0.3	122.6	4.8	5.65	138.03	3.48	265.8	Sgr
3 Mai 2018	18h37m41.02s	-22 15' 55.8"	10.066	9.473	0.3	123.6	4.8	6.07	138.87	3.72	265.8	Sgr
4 Mai 2018	18h37m34.63s	-22 16' 01.7"	10.066	9.460	0.3	124.5	4.7	6.47	139.72	3.95	265.9	Sgr
5 Mai 2018	18h37m27.84s	-22 16' 07.9"	10.066	9.446	0.3	125.5	4.7	6.87	140.58	4.18	265.9	Sgr
6 Mai 2018	18h37m20.66s	-22 16' 14.5"	10.066	9.432	0.3	126.5	4.6	7.26	141.44	4.41	265.9	Sgr
7 Mai 2018	18h37m13.09s	-22 16' 21.5"	10.066	9.419	0.3	127.5	4.6	7.65	142.30	4.63	265.9	Sgr
8 Mai 2018	18h37m05.14s	-22 16' 28.9"	10.066	9.406	0.3	128.5	4.5	8.03	143.17	4.85	265.9	Sgr
9 Mai 2018	18h36m56.80s	-22 16' 36.7"	10.066	9.393	0.3	129.5	4.4	8.40	144.05	5.08	265.9	Sgr
10 Mai 2018	18h36m48.09s	-22 16' 44.8"	10.066	9.380	0.3	130.5	4.4	8.76	144.93	5.30	265.9	Sgr
11 Mai 2018	18h36m39.00s	-22 16' 53.3"	10.066	9.367	0.3	131.5	4.3	9.12	145.82	5.51	265.9	Sgr
12 Mai 2018	18h36m29.54s	-22 17' 02.2"	10.066	9.355	0.3	132.5	4.2	9.47	146.72	5.73	266.0	Sgr
13 Mai 2018	18h36m19.72s	-22 17' 11.4"	10.066	9.343	0.3	133.5	4.2	9.81	147.62	5.94	266.0	Sgr
14 Mai 2018	18h36m09.53s	-22 17' 20.9"	10.066	9.331	0.3	134.5	4.1	10.14	148.52	6.15	266.0	Sgr
15 Mai 2018	18h35m58.99s	-22 17' 30.8"	10.066	9.319	0.3	135.6	4.0	10.46	149.43	6.36	266.0	Sgr
16 Mai 2018	18h35m48.09s	-22 17' 41.0"	10.066	9.307	0.3	136.6	4.0	10.78	150.35	6.56	266.0	Sgr
17 Mai 2018	18h35m36.85s	-22 17' 51.6"	10.066	9.296	0.3	137.6	3.9	11.09	151.27	6.76	266.0	Sgr
18 Mai 2018	18h35m25.27s	-22 18' 02.4"	10.066	9.285	0.2	138.6	3.8	11.39	152.20	6.96	266.0	Sgr
19 Mai 2018	18h35m13.35s	-22 18' 13.6"	10.066	9.274	0.2	139.6	3.7	11.68	153.13	7.15	266.1	Sgr
20 Mai 2018	18h35m01.11s	-22 18' 25.0"	10.066	9.263	0.2	140.6	3.7	11.96	154.06	7.34	266.1	Sgr
21 Mai 2018	18h34m48.54s	-22 18' 36.8"	10.066	9.253	0.2	141.6	3.6	12.23	155.01	7.52	266.1	Sgr
22 Mai 2018	18h34m35.66s	-22 18' 48.8"	10.066	9.242	0.2	142.6	3.5	12.49	155.95	7.70	266.1	Sgr
23 Mai 2018	18h34m22.48s	-22 19' 01.1"	10.066	9.232	0.2	143.6	3.4	12.75	156.90	7.88	266.1	Sgr
24 Mai 2018	18h34m08.99s	-22 19' 13.7"	10.066	9.223	0.2	144.6	3.3	12.99	157.86	8.05	266.1	Sgr
25 Mai 2018	18h33m55.21s	-22 19' 26.5"	10.066	9.213	0.2	145.7	3.3	13.22	158.82	8.22	266.1	Sgr
26 Mai 2018	18h33m41.13s	-22 19' 39.6"	10.066	9.204	0.2	146.7	3.2	13.45	159.79	8.39	266.1	Sgr
27 Mai 2018	18h33m26.78s	-22 19' 52.9"	10.066	9.195	0.2	147.7	3.1	13.66	160.76	8.55	266.2	Sgr
28 Mai 2018	18h33m12.16s	-22 20' 06.5"	10.066	9.186	0.2	148.7	3.0	13.86	161.73	8.71	266.2	Sgr

# EPHEMERIDE 2018 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
29 Mai 2018	18h32m57.26s	-22 20' 20.2"	10.066	9.177	0.2	149.7	2.9	14.06	162.71	8.86	266.2	Sgr
30 Mai 2018	18h32m42.10s	-22 20' 34.2"	10.066	9.169	0.2	150.7	2.8	14.24	163.69	9.01	266.2	Sgr
31 Mai 2018	18h32m26.69s	-22 20' 48.4"	10.065	9.161	0.2	151.8	2.7	14.41	164.68	9.16	266.2	Sgr
1 Jun 2018	18h32m11.04s	-22 21' 02.8"	10.065	9.153	0.2	152.8	2.6	14.57	165.67	9.30	266.2	Sgr
2 Jun 2018	18h31m55.14s	-22 21' 17.3"	10.065	9.146	0.2	153.8	2.6	14.73	166.66	9.43	266.3	Sgr
3 Jun 2018	18h31m39.01s	-22 21' 32.0"	10.065	9.138	0.2	154.8	2.5	14.87	167.66	9.57	266.3	Sgr
4 Jun 2018	18h31m22.65s	-22 21' 46.9"	10.065	9.131	0.1	155.8	2.4	14.99	168.66	9.70	266.3	Sgr
5 Jun 2018	18h31m06.08s	-22 22' 02.0"	10.065	9.125	0.1	156.9	2.3	15.11	169.66	9.82	266.3	Sgr
6 Jun 2018	18h30m49.29s	-22 22' 17.2"	10.065	9.118	0.1	157.9	2.2	15.22	170.67	9.94	266.3	Sgr
7 Jun 2018	18h30m32.30s	-22 22' 32.5"	10.065	9.112	0.1	158.9	2.1	15.31	171.68	10.05	266.3	Sgr
8 Jun 2018	18h30m15.12s	-22 22' 47.9"	10.065	9.106	0.1	159.9	2.0	15.40	172.69	10.16	266.4	Sgr
9 Jun 2018	18h29m57.76s	-22 23' 03.5"	10.065	9.101	0.1	160.9	1.9	15.47	173.70	10.27	266.4	Sgr
10 Jun 2018	18h29m40.21s	-22 23' 19.2"	10.065	9.095	0.1	162.0	1.8	15.53	174.71	10.37	266.4	Sgr
11 Jun 2018	18h29m22.50s	-22 23' 34.9"	10.065	9.090	0.1	163.0	1.7	15.58	175.73	10.46	266.4	Sgr
12 Jun 2018	18h29m04.63s	-22 23' 50.8"	10.065	9.085	0.1	164.0	1.6	15.62	176.75	10.55	266.4	Sgr
13 Jun 2018	18h28m46.61s	-22 24' 06.7"	10.065	9.081	0.1	165.0	1.5	15.65	177.76	10.63	266.4	Sgr
14 Jun 2018	18h28m28.45s	-22 24' 22.7"	10.065	9.077	0.1	166.1	1.4	15.66	178.78	10.71	266.5	Sgr
15 Jun 2018	18h28m10.15s	-22 24' 38.7"	10.065	9.073	0.1	167.1	1.3	15.67	179.80	10.78	266.5	Sgr
16 Jun 2018	18h27m51.74s	-22 24' 54.8"	10.065	9.069	0.1	168.1	1.2	15.66	180.82	10.85	266.5	Sgr
17 Jun 2018	18h27m33.22s	-22 25' 10.9"	10.065	9.066	0.1	169.1	1.1	15.64	181.84	10.91	266.5	Sgr
18 Jun 2018	18h27m14.59s	-22 25' 27.1"	10.065	9.063	0.1	170.2	1.0	15.61	182.86	10.96	266.5	Sgr
19 Jun 2018	18h26m55.88s	-22 25' 43.3"	10.065	9.060	0.1	171.2	0.9	15.56	183.88	11.01	266.5	Sgr
20 Jun 2018	18h26m37.09s	-22 25' 59.5"	10.065	9.058	0.1	172.2	0.8	15.51	184.90	11.05	266.6	Sgr
21 Jun 2018	18h26m18.22s	-22 26' 15.7"	10.065	9.055	0.0	173.2	0.7	15.44	185.92	11.09	266.6	Sgr
22 Jun 2018	18h25m59.29s	-22 26' 32.0"	10.065	9.054	0.0	174.2	0.6	15.36	186.94	11.12	266.6	Sgr
23 Jun 2018	18h25m40.31s	-22 26' 48.2"	10.065	9.052	0.0	175.2	0.5	15.28	187.95	11.15	266.6	Sgr
24 Jun 2018	18h25m21.29s	-22 27' 04.4"	10.065	9.051	0.0	176.3	0.4	15.17	188.97	11.17	266.6	Sgr
25 Jun 2018	18h25m02.23s	-22 27' 20.6"	10.065	9.050	0.0	177.2	0.3	15.06	189.98	11.18	266.6	Sgr
26 Jun 2018	18h24m43.15s	-22 27' 36.7"	10.065	9.049	0.0	178.2	0.2	14.94	190.99	11.19	266.7	Sgr
27 Jun 2018	18h24m24.06s	-22 27' 52.9"	10.065	9.049	0.0	179.0	0.1	14.80	192.00	11.20	266.7	Sgr
28 Jun 2018	18h24m04.96s	-22 28' 09.0"	10.065	9.049	0.0	179.0	0.1	14.66	193.01	11.20	266.7	Sgr
29 Jun 2018	18h23m45.86s	-22 28' 25.0"	10.065	9.049	0.0	178.3	0.2	14.50	194.01	11.19	266.7	Sgr
30 Jun 2018	18h23m26.78s	-22 28' 41.0"	10.065	9.050	0.0	177.3	0.3	14.33	195.01	11.18	266.7	Sgr
1 Jul 2018	18h23m07.71s	-22 28' 56.9"	10.065	9.050	0.0	176.4	0.4	14.15	196.01	11.16	266.7	Sgr
2 Jul 2018	18h22m48.68s	-22 29' 12.8"	10.065	9.052	0.0	175.4	0.5	13.96	197.01	11.14	266.7	Sgr
3 Jul 2018	18h22m29.69s	-22 29' 28.6"	10.065	9.053	0.0	174.3	0.6	13.76	198.00	11.11	266.7	Sgr
4 Jul 2018	18h22m10.74s	-22 29' 44.4"	10.065	9.055	0.0	173.3	0.7	13.54	198.99	11.08	266.8	Sgr
5 Jul 2018	18h21m51.86s	-22 30' 00.0"	10.065	9.057	0.0	172.3	0.8	13.32	199.97	11.04	266.8	Sgr
6 Jul 2018	18h21m33.04s	-22 30' 15.6"	10.065	9.059	0.1	171.3	0.9	13.09	200.95	11.00	266.8	Sgr
7 Jul 2018	18h21m14.30s	-22 30' 31.1"	10.065	9.062	0.1	170.3	1.0	12.84	201.93	10.95	266.8	Sgr
8 Jul 2018	18h20m55.65s	-22 30' 46.4"	10.065	9.064	0.1	169.2	1.1	12.59	202.90	10.89	266.8	Sgr
9 Jul 2018	18h20m37.10s	-22 31' 01.7"	10.065	9.068	0.1	168.2	1.2	12.32	203.87	10.83	266.8	Sgr
10 Jul 2018	18h20m18.65s	-22 31' 16.9"	10.065	9.071	0.1	167.2	1.3	12.05	204.83	10.76	266.8	Sgr
11 Jul 2018	18h20m00.31s	-22 31' 32.0"	10.065	9.075	0.1	166.2	1.4	11.76	205.79	10.69	266.8	Sgr
12 Jul 2018	18h19m42.11s	-22 31' 47.0"	10.065	9.079	0.1	165.2	1.5	11.47	206.75	10.61	266.8	Sgr
13 Jul 2018	18h19m24.03s	-22 32' 01.9"	10.065	9.083	0.1	164.1	1.6	11.17	207.70	10.53	266.8	Sgr
14 Jul 2018	18h19m06.11s	-22 32' 16.6"	10.065	9.088	0.1	163.1	1.7	10.86	208.64	10.44	266.8	Sgr
15 Jul 2018	18h18m48.34s	-22 32' 31.3"	10.065	9.093	0.1	162.1	1.8	10.53	209.58	10.35	266.8	Sgr
16 Jul 2018	18h18m30.73s	-22 32' 45.8"	10.065	9.098	0.1	161.1	1.9	10.20	210.52	10.25	266.8	Sgr
17 Jul 2018	18h18m13.30s	-22 33' 00.2"	10.065	9.104	0.1	160.0	2.0	9.86	211.45	10.14	266.8	Sgr
18 Jul 2018	18h17m56.05s	-22 33' 14.6"	10.065	9.109	0.1	159.0	2.1	9.51	212.38	10.03	266.8	Sgr
19 Jul 2018	18h17m39.00s	-22 33' 28.7"	10.065	9.115	0.1	158.0	2.2	9.16	213.30	9.91	266.8	Sgr
20 Jul 2018	18h17m22.14s	-22 33' 42.8"	10.065	9.122	0.1	157.0	2.3	8.79	214.21	9.79	266.8	Sgr
21 Jul 2018	18h17m05.49s	-22 33' 56.8"	10.065	9.128	0.1	156.0	2.4	8.42	215.12	9.67	266.8	Sgr
22 Jul 2018	18h16m49.06s	-22 34' 10.6"	10.065	9.135	0.1	155.0	2.4	8.04	216.03	9.54	266.8	Sgr
23 Jul 2018	18h16m32.84s	-22 34' 24.3"	10.065	9.142	0.1	153.9	2.5	7.65	216.93	9.41	266.8	Sgr
24 Jul 2018	18h16m16.86s	-22 34' 37.9"	10.065	9.150	0.1	152.9	2.6	7.25	217.82	9.27	266.8	Sgr
25 Jul 2018	18h16m01.12s	-22 34' 51.4"	10.065	9.157	0.2	151.9	2.7	6.84	218.71	9.13	266.8	Sgr
26 Jul 2018	18h15m45.63s	-22 35' 04.8"	10.065	9.165	0.2	150.9	2.8	6.43	219.59	8.98	266.8	Sgr
27 Jul 2018	18h15m30.38s	-22 35' 18.0"	10.065	9.173	0.2	149.9	2.9	6.01	220.47	8.83	266.7	Sgr
28 Jul 2018	18h15m15.40s	-22 35' 31.1"	10.065	9.182	0.2	148.9	3.0	5.59	221.34	8.67	266.7	Sgr
29 Jul 2018	18h15m00.68s	-22 35' 44.1"	10.065	9.191	0.2	147.9	3.1	5.15	222.21	8.52	266.7	Sgr
30 Jul 2018	18h14m46.23s	-22 35' 57.0"	10.065	9.199	0.2	146.8	3.2	4.71	223.08	8.35	266.7	Sgr
31 Jul 2018	18h14m32.07s	-22 36' 09.8"	10.065	9.209	0.2	145.8	3.2	4.27	223.93	8.19	266.6	Sgr
1 Aug 2018	18h14m18.19s	-22 36' 22.4"	10.065	9.218	0.2	144.8	3.3	3.81	224.78	8.02	266.6	Sgr
2 Aug 2018	18h14m04.60s	-22 36' 34.9"	10.065	9.228	0.2	143.8	3.4	3.35	225.63	7.85	266.6	Sgr
3 Aug 2018	18h13m51.31s	-22 36' 47.3"	10.065	9.238	0.2	142.8	3.5	2.89	226.47	7.67	266.5	Sgr
4 Aug 2018	18h13m38.32s	-22 36' 59.6"	10.065	9.248	0.2	141.8	3.6	2.42	227.31	7.49	266.5	Sgr
5 Aug 2018	18h13m25.65s	-22 37' 11.8"	10.065	9.258	0.2	140.8	3.7	1.94	228.14	7.30	266.4	Sgr
6 Aug 2018	18h13m13.29s	-22 37' 23.8"	10.065	9.269	0.2	139.8	3.7	1.46	228.97	7.12	266.4	Sgr
7 Aug 2018	18h13m01.26s	-22 37' 35.7"	10.065	9.279	0.2	138.8	3.8	0.97	229.79	6.92	266.3	Sgr
8 Aug 2018	18h12m49.56s	-22 37' 47.5"	10.065	9.290	0.2	137.8	3.9	0.48	230.61	6.73	266.3	Sgr
9 Aug 2018	18h12m38.20s	-22 37' 59.2"	10.065	9.302	0.2	136.8	4.0	-0.02	231.42	6.53	266.2	Sgr
10 Aug 2018	18h12m27.17s	-22 38' 10.8"	10.065	9.313	0.2	135.8	4.0	-0.52	232.23	6.33	266.1	Sgr

# EPHEMERIDE 2018 – SATURN

<u>Datum</u>	<u>RA</u>	<u>Deklination</u>	<u>r</u>	<u>delta</u>	<u>mag</u>	<u>Elong</u>	<u>Phase</u>	<u>Höhe</u>	<u>Az.</u>	<u>Gesch.</u>	<u>PA</u>	<u>Stb</u>
11 Aug 2018	18h12m16.50s	-22 38' 22.3"	10.065	9.325	0.2	134.8	4.1	-1.03	233.04	6.12	266.1	Sgr
12 Aug 2018	18h12m06.18s	-22 38' 33.7"	10.065	9.337	0.3	133.8	4.2	-1.54	233.84	5.92	266.0	Sgr
13 Aug 2018	18h11m56.22s	-22 38' 44.9"	10.065	9.349	0.3	132.8	4.2	-2.06	234.63	5.70	265.9	Sgr
14 Aug 2018	18h11m46.63s	-22 38' 56.1"	10.065	9.361	0.3	131.8	4.3	-2.58	235.42	5.49	265.7	Sgr
15 Aug 2018	18h11m37.40s	-22 39' 07.2"	10.064	9.374	0.3	130.8	4.4	-3.10	236.21	5.27	265.6	Sgr
16 Aug 2018	18h11m28.55s	-22 39' 18.1"	10.064	9.386	0.3	129.8	4.4	-3.63	236.99	5.05	265.5	Sgr
17 Aug 2018	18h11m20.07s	-22 39' 29.0"	10.064	9.399	0.3	128.8	4.5	-4.17	237.77	4.83	265.3	Sgr
18 Aug 2018	18h11m11.98s	-22 39' 39.7"	10.064	9.412	0.3	127.8	4.6	-4.70	238.55	4.61	265.1	Sgr
19 Aug 2018	18h11m04.27s	-22 39' 50.4"	10.064	9.425	0.3	126.8	4.6	-5.24	239.32	4.39	265.0	Sgr
20 Aug 2018	18h10m56.94s	-22 40' 01.0"	10.064	9.439	0.3	125.8	4.7	-5.79	240.09	4.16	264.7	Sgr
21 Aug 2018	18h10m50.01s	-22 40' 11.4"	10.064	9.452	0.3	124.8	4.7	-6.33	240.85	3.93	264.5	Sgr
22 Aug 2018	18h10m43.47s	-22 40' 21.8"	10.064	9.466	0.3	123.9	4.8	-6.88	241.61	3.70	264.2	Sgr
23 Aug 2018	18h10m37.32s	-22 40' 32.1"	10.064	9.480	0.3	122.9	4.8	-7.43	242.37	3.47	263.9	Sgr
24 Aug 2018	18h10m31.58s	-22 40' 42.3"	10.064	9.494	0.3	121.9	4.9	-7.99	243.12	3.24	263.5	Sgr
25 Aug 2018	18h10m26.23s	-22 40' 52.3"	10.064	9.508	0.3	120.9	4.9	-8.55	243.87	3.01	263.1	Sgr
26 Aug 2018	18h10m21.29s	-22 41' 02.3"	10.064	9.522	0.3	119.9	5.0	-9.11	244.62	2.77	262.6	Sgr
27 Aug 2018	18h10m16.75s	-22 41' 12.2"	10.064	9.537	0.3	118.9	5.0	-9.67	245.37	2.54	262.0	Sgr
28 Aug 2018	18h10m12.62s	-22 41' 22.0"	10.064	9.551	0.3	117.9	5.1	-10.24	246.11	2.30	261.3	Sgr
29 Aug 2018	18h10m08.90s	-22 41' 31.7"	10.064	9.566	0.3	117.0	5.1	-10.81	246.85	2.06	260.4	Sgr
30 Aug 2018	18h10m05.58s	-22 41' 41.3"	10.064	9.581	0.4	116.0	5.2	-11.38	247.59	1.83	259.3	Sgr
31 Aug 2018	18h10m02.68s	-22 41' 50.8"	10.064	9.596	0.4	115.0	5.2	-11.95	248.33	1.59	257.8	Sgr
1 Sep 2018	18h10m00.20s	-22 42' 00.2"	10.064	9.611	0.4	114.0	5.3	-12.52	249.06	1.35	255.8	Sgr
2 Sep 2018	18h09m58.13s	-22 42' 09.5"	10.064	9.626	0.4	113.1	5.3	-13.10	249.79	1.12	252.9	Sgr
3 Sep 2018	18h09m56.48s	-22 42' 18.7"	10.064	9.641	0.4	112.1	5.3	-13.68	250.52	0.89	248.5	Sgr
4 Sep 2018	18h09m55.25s	-22 42' 27.7"	10.064	9.657	0.4	111.1	5.4	-14.26	251.25	0.66	241.1	Sgr
5 Sep 2018	18h09m54.44s	-22 42' 36.7"	10.064	9.672	0.4	110.1	5.4	-14.84	251.98	0.46	226.6	Sgr
6 Sep 2018	18h09m54.05s	-22 42' 45.6"	10.064	9.688	0.4	109.2	5.4	-15.42	252.71	0.32	195.5	Sgr
7 Sep 2018	18h09m54.09s	-22 42' 54.4"	10.064	9.704	0.4	108.2	5.5	-16.00	253.43	0.35	152.4	Sgr
8 Sep 2018	18h09m54.55s	-22 43' 03.0"	10.064	9.719	0.4	107.2	5.5	-16.59	254.15	0.51	126.5	Sgr
9 Sep 2018	18h09m55.44s	-22 43' 11.6"	10.064	9.735	0.4	106.3	5.5	-17.17	254.88	0.72	114.4	Sgr
10 Sep 2018	18h09m56.75s	-22 43' 20.1"	10.064	9.751	0.4	105.3	5.5	-17.76	255.60	0.95	108.0	Sgr
11 Sep 2018	18h09m58.50s	-22 43' 28.4"	10.064	9.767	0.4	104.3	5.6	-18.34	256.32	1.19	104.1	Sgr
12 Sep 2018	18h10m00.67s	-22 43' 36.6"	10.064	9.783	0.4	103.4	5.6	-18.93	257.04	1.43	101.5	Sgr
13 Sep 2018	18h10m03.26s	-22 43' 44.8"	10.064	9.800	0.4	102.4	5.6	-19.52	257.76	1.68	99.6	Sgr
14 Sep 2018	18h10m06.29s	-22 43' 52.8"	10.064	9.816	0.4	101.4	5.6	-20.11	258.48	1.92	98.3	Sgr
15 Sep 2018	18h10m09.74s	-22 44' 00.7"	10.064	9.832	0.4	100.5	5.6	-20.70	259.20	2.17	97.2	Sgr
16 Sep 2018	18h10m13.62s	-22 44' 08.4"	10.064	9.849	0.4	99.5	5.7	-21.29	259.92	2.41	96.4	Sgr
17 Sep 2018	18h10m17.91s	-22 44' 16.1"	10.064	9.865	0.4	98.6	5.7	-21.88	260.64	2.65	95.7	Sgr
18 Sep 2018	18h10m22.64s	-22 44' 23.6"	10.064	9.881	0.4	97.6	5.7	-22.47	261.36	2.90	95.1	Sgr
19 Sep 2018	18h10m27.78s	-22 44' 30.9"	10.064	9.898	0.4	96.6	5.7	-23.06	262.08	3.14	94.6	Sgr
20 Sep 2018	18h10m33.34s	-22 44' 38.2"	10.064	9.914	0.4	95.7	5.7	-23.65	262.81	3.38	94.2	Sgr
21 Sep 2018	18h10m39.33s	-22 44' 45.3"	10.064	9.931	0.5	94.7	5.7	-24.24	263.53	3.63	93.8	Sgr
22 Sep 2018	18h10m45.72s	-22 44' 52.2"	10.064	9.947	0.5	93.8	5.7	-24.83	264.25	3.87	93.5	Sgr
23 Sep 2018	18h10m52.54s	-22 44' 59.0"	10.064	9.964	0.5	92.8	5.7	-25.41	264.98	4.11	93.2	Sgr
24 Sep 2018	18h10m59.76s	-22 45' 05.7"	10.064	9.981	0.5	91.9	5.7	-26.00	265.71	4.35	92.9	Sgr
25 Sep 2018	18h11m07.40s	-22 45' 12.2"	10.064	9.997	0.5	90.9	5.7	-26.59	266.44	4.58	92.7	Sgr
26 Sep 2018	18h11m15.45s	-22 45' 18.5"	10.064	10.014	0.5	90.0	5.7	-27.18	267.17	4.82	92.5	Sgr
27 Sep 2018	18h11m23.91s	-22 45' 24.7"	10.064	10.030	0.5	89.0	5.7	-27.76	267.90	5.06	92.3	Sgr
28 Sep 2018	18h11m32.77s	-22 45' 30.7"	10.063	10.047	0.5	88.1	5.7	-28.35	268.64	5.29	92.1	Sgr
29 Sep 2018	18h11m42.04s	-22 45' 36.5"	10.063	10.063	0.5	87.1	5.7	-28.94	269.38	5.53	92.0	Sgr
30 Sep 2018	18h11m51.71s	-22 45' 42.1"	10.063	10.080	0.5	86.2	5.7	-29.52	270.12	5.76	91.8	Sgr
1 Okt 2018	18h12m01.79s	-22 45' 47.6"	10.063	10.097	0.5	85.3	5.7	-30.10	270.87	5.99	91.7	Sgr
2 Okt 2018	18h12m12.26s	-22 45' 52.8"	10.063	10.113	0.5	84.3	5.7	-30.68	271.61	6.23	91.5	Sgr
3 Okt 2018	18h12m23.13s	-22 45' 57.9"	10.063	10.130	0.5	83.4	5.7	-31.26	272.37	6.46	91.4	Sgr
4 Okt 2018	18h12m34.40s	-22 46' 02.7"	10.063	10.146	0.5	82.4	5.7	-31.84	273.12	6.69	91.3	Sgr
5 Okt 2018	18h12m46.06s	-22 46' 07.4"	10.063	10.163	0.5	81.5	5.6	-32.42	273.88	6.91	91.2	Sgr
6 Okt 2018	18h12m58.12s	-22 46' 11.8"	10.063	10.179	0.5	80.6	5.6	-33.00	274.64	7.14	91.1	Sgr
7 Okt 2018	18h13m10.56s	-22 46' 16.1"	10.063	10.195	0.5	79.6	5.6	-33.57	275.41	7.37	91.0	Sgr
8 Okt 2018	18h13m23.39s	-22 46' 20.1"	10.063	10.212	0.5	78.7	5.6	-34.14	276.18	7.59	90.9	Sgr
9 Okt 2018	18h13m36.61s	-22 46' 23.9"	10.063	10.228	0.5	77.7	5.6	-34.71	276.96	7.81	90.8	Sgr
10 Okt 2018	18h13m50.21s	-22 46' 27.4"	10.063	10.244	0.5	76.8	5.5	-35.28	277.74	8.03	90.7	Sgr
11 Okt 2018	18h14m04.19s	-22 46' 30.7"	10.063	10.260	0.5	75.9	5.5	-35.85	278.53	8.25	90.6	Sgr
12 Okt 2018	18h14m18.54s	-22 46' 33.8"	10.063	10.276	0.5	74.9	5.5	-36.41	279.32	8.47	90.5	Sgr
13 Okt 2018	18h14m33.27s	-22 46' 36.6"	10.063	10.292	0.5	74.0	5.5	-36.98	280.12	8.68	90.5	Sgr
14 Okt 2018	18h14m48.37s	-22 46' 39.2"	10.063	10.308	0.5	73.1	5.4	-37.54	280.92	8.89	90.4	Sgr
15 Okt 2018	18h15m03.82s	-22 46' 41.5"	10.063	10.324	0.5	72.1	5.4	-38.09	281.74	9.11	90.3	Sgr
16 Okt 2018	18h15m19.64s	-22 46' 43.5"	10.063	10.340	0.5	71.2	5.4	-38.65	282.55	9.32	90.2	Sgr
17 Okt 2018	18h15m35.82s	-22 46' 45.3"	10.063	10.355	0.5	70.3	5.4	-39.20	283.38	9.52	90.2	Sgr
18 Okt 2018	18h15m52.35s	-22 46' 46.8"	10.063	10.371	0.5	69.4	5.3	-39.75	284.21	9.73	90.1	Sgr
19 Okt 2018	18h16m09.23s	-22 46' 48.0"	10.063	10.387	0.5	68.4	5.3	-40.29	285.05	9.93	90.0	Sgr
20 Okt 2018	18h16m26.46s	-22 46' 48.9"	10.063	10.402	0.5	67.5	5.2	-40.84	285.90	10.13	90.0	Sgr
21 Okt 2018	18h16m44.02s	-22 46' 49.5"	10.063	10.417	0.5	66.6	5.2	-41.38	286.76	10.32	89.9	Sgr
22 Okt 2018	18h17m01.93s	-22 46' 49.7"	10.063	10.432	0.5	65.6	5.2	-41.91	287.62	10.52	89.8	Sgr
23 Okt 2018	18h17m20.17s	-22 46' 49.7"	10.063	10.447	0.5	64.7	5.1	-42.45	288.50	10.71	89.8	Sgr

## EPHEMERIDE 2018 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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24 Okt 2018	18h17m38.73s	-22 46' 49.4"	10.063	10.462	0.5	63.8	5.1	-42.98	289.38	10.90	89.7	Sgr
25 Okt 2018	18h17m57.63s	-22 46' 48.7"	10.063	10.477	0.5	62.9	5.0	-43.50	290.27	11.09	89.6	Sgr
26 Okt 2018	18h18m16.85s	-22 46' 47.7"	10.063	10.492	0.5	62.0	5.0	-44.02	291.17	11.28	89.6	Sgr
27 Okt 2018	18h18m36.38s	-22 46' 46.4"	10.063	10.506	0.5	61.0	5.0	-44.54	292.09	11.46	89.5	Sgr
28 Okt 2018	18h18m56.23s	-22 46' 44.7"	10.063	10.521	0.5	60.1	4.9	-45.06	293.01	11.64	89.5	Sgr
29 Okt 2018	18h19m16.40s	-22 46' 42.7"	10.063	10.535	0.5	59.2	4.9	-45.56	293.94	11.82	89.4	Sgr
30 Okt 2018	18h19m36.87s	-22 46' 40.3"	10.063	10.549	0.5	58.3	4.8	-46.07	294.89	12.00	89.3	Sgr
31 Okt 2018	18h19m57.65s	-22 46' 37.6"	10.063	10.563	0.5	57.3	4.8	-46.57	295.85	12.18	89.3	Sgr
1 Nov 2018	18h20m18.73s	-22 46' 34.5"	10.063	10.577	0.6	56.4	4.7	-47.07	296.82	12.35	89.2	Sgr
2 Nov 2018	18h20m40.11s	-22 46' 31.0"	10.062	10.591	0.6	55.5	4.7	-47.56	297.80	12.52	89.2	Sgr
3 Nov 2018	18h21m01.78s	-22 46' 27.1"	10.062	10.605	0.6	54.6	4.6	-48.04	298.79	12.69	89.1	Sgr
4 Nov 2018	18h21m23.74s	-22 46' 22.9"	10.062	10.618	0.6	53.7	4.6	-48.52	299.80	12.86	89.1	Sgr
5 Nov 2018	18h21m45.99s	-22 46' 18.3"	10.062	10.631	0.6	52.8	4.5	-48.99	300.82	13.02	89.0	Sgr
6 Nov 2018	18h22m08.51s	-22 46' 13.2"	10.062	10.645	0.6	51.8	4.4	-49.46	301.86	13.19	88.9	Sgr
7 Nov 2018	18h22m31.32s	-22 46' 07.8"	10.062	10.658	0.6	50.9	4.4	-49.92	302.91	13.35	88.9	Sgr
8 Nov 2018	18h22m54.40s	-22 46' 02.0"	10.062	10.670	0.6	50.0	4.3	-50.38	303.97	13.50	88.8	Sgr
9 Nov 2018	18h23m17.75s	-22 45' 55.8"	10.062	10.683	0.6	49.1	4.3	-50.83	305.05	13.66	88.8	Sgr
10 Nov 2018	18h23m41.36s	-22 45' 49.2"	10.062	10.695	0.6	48.2	4.2	-51.27	306.14	13.81	88.7	Sgr
11 Nov 2018	18h24m05.23s	-22 45' 42.1"	10.062	10.708	0.6	47.3	4.1	-51.71	307.25	13.96	88.7	Sgr
12 Nov 2018	18h24m29.35s	-22 45' 34.6"	10.062	10.720	0.6	46.4	4.1	-52.14	308.38	14.10	88.6	Sgr
13 Nov 2018	18h24m53.72s	-22 45' 26.7"	10.062	10.732	0.6	45.4	4.0	-52.56	309.52	14.24	88.6	Sgr
14 Nov 2018	18h25m18.33s	-22 45' 18.4"	10.062	10.743	0.6	44.5	4.0	-52.98	310.68	14.38	88.5	Sgr
15 Nov 2018	18h25m43.18s	-22 45' 09.6"	10.062	10.755	0.6	43.6	3.9	-53.38	311.86	14.52	88.4	Sgr
16 Nov 2018	18h26m08.26s	-22 45' 00.4"	10.062	10.766	0.6	42.7	3.8	-53.78	313.05	14.66	88.4	Sgr
17 Nov 2018	18h26m33.57s	-22 44' 50.7"	10.062	10.778	0.6	41.8	3.8	-54.17	314.26	14.79	88.3	Sgr
18 Nov 2018	18h26m59.11s	-22 44' 40.6"	10.062	10.788	0.6	40.9	3.7	-54.55	315.49	14.92	88.3	Sgr
19 Nov 2018	18h27m24.86s	-22 44' 30.1"	10.062	10.799	0.6	40.0	3.6	-54.92	316.73	15.04	88.2	Sgr
20 Nov 2018	18h27m50.83s	-22 44' 19.0"	10.062	10.810	0.6	39.1	3.5	-55.29	318.00	15.16	88.2	Sgr
21 Nov 2018	18h28m17.01s	-22 44' 07.6"	10.062	10.820	0.6	38.2	3.5	-55.64	319.28	15.29	88.1	Sgr
22 Nov 2018	18h28m43.39s	-22 43' 55.6"	10.062	10.830	0.6	37.3	3.4	-55.99	320.58	15.40	88.1	Sgr
23 Nov 2018	18h29m09.97s	-22 43' 43.2"	10.062	10.840	0.5	36.3	3.3	-56.32	321.90	15.52	88.0	Sgr
24 Nov 2018	18h29m36.74s	-22 43' 30.3"	10.062	10.850	0.5	35.4	3.3	-56.64	323.24	15.63	88.0	Sgr
25 Nov 2018	18h30m03.71s	-22 43' 16.9"	10.062	10.859	0.5	34.5	3.2	-56.96	324.59	15.74	87.9	Sgr
26 Nov 2018	18h30m30.87s	-22 43' 03.1"	10.062	10.869	0.5	33.6	3.1	-57.26	325.96	15.85	87.8	Sgr
27 Nov 2018	18h30m58.20s	-22 42' 48.8"	10.062	10.878	0.5	32.7	3.0	-57.55	327.36	15.95	87.8	Sgr
28 Nov 2018	18h31m25.72s	-22 42' 34.0"	10.062	10.887	0.5	31.8	3.0	-57.83	328.77	16.06	87.7	Sgr
29 Nov 2018	18h31m53.41s	-22 42' 18.7"	10.062	10.895	0.5	30.9	2.9	-58.10	330.19	16.16	87.7	Sgr
30 Nov 2018	18h32m21.27s	-22 42' 02.9"	10.062	10.904	0.5	30.0	2.8	-58.36	331.64	16.26	87.6	Sgr
1 Dez 2018	18h32m49.29s	-22 41' 46.7"	10.061	10.912	0.5	29.1	2.7	-58.60	333.10	16.35	87.6	Sgr
2 Dez 2018	18h33m17.47s	-22 41' 29.9"	10.061	10.920	0.5	28.2	2.7	-58.83	334.57	16.44	87.5	Sgr
3 Dez 2018	18h33m45.81s	-22 41' 12.7"	10.061	10.927	0.5	27.3	2.6	-59.05	336.07	16.53	87.5	Sgr
4 Dez 2018	18h34m14.30s	-22 40' 55.0"	10.061	10.935	0.5	26.4	2.5	-59.26	337.57	16.62	87.4	Sgr
5 Dez 2018	18h34m42.94s	-22 40' 36.8"	10.061	10.942	0.5	25.5	2.4	-59.45	339.10	16.70	87.4	Sgr
6 Dez 2018	18h35m11.71s	-22 40' 18.1"	10.061	10.949	0.5	24.6	2.3	-59.63	340.63	16.78	87.3	Sgr
7 Dez 2018	18h35m40.62s	-22 39' 58.9"	10.061	10.956	0.5	23.7	2.3	-59.79	342.18	16.86	87.2	Sgr
8 Dez 2018	18h36m09.66s	-22 39' 39.3"	10.061	10.962	0.5	22.8	2.2	-59.94	343.74	16.94	87.2	Sgr
9 Dez 2018	18h36m38.83s	-22 39' 19.1"	10.061	10.969	0.5	21.9	2.1	-60.08	345.31	17.01	87.1	Sgr
10 Dez 2018	18h37m08.11s	-22 38' 58.5"	10.061	10.975	0.5	21.0	2.0	-60.20	346.90	17.08	87.1	Sgr
11 Dez 2018	18h37m37.50s	-22 38' 37.3"	10.061	10.980	0.5	20.1	1.9	-60.31	348.49	17.14	87.0	Sgr
12 Dez 2018	18h38m07.01s	-22 38' 15.7"	10.061	10.986	0.5	19.2	1.8	-60.40	350.09	17.20	87.0	Sgr
13 Dez 2018	18h38m36.61s	-22 37' 53.6"	10.061	10.991	0.5	18.3	1.8	-60.48	351.69	17.26	86.9	Sgr
14 Dez 2018	18h39m06.31s	-22 37' 31.0"	10.061	10.996	0.5	17.4	1.7	-60.54	353.30	17.32	86.9	Sgr
15 Dez 2018	18h39m36.11s	-22 37' 07.9"	10.061	11.001	0.5	16.4	1.6	-60.59	354.92	17.37	86.8	Sgr
16 Dez 2018	18h40m05.99s	-22 36' 44.3"	10.061	11.006	0.5	15.5	1.5	-60.62	356.54	17.42	86.8	Sgr
17 Dez 2018	18h40m35.95s	-22 36' 20.2"	10.061	11.010	0.5	14.6	1.4	-60.64	358.16	17.47	86.7	Sgr
18 Dez 2018	18h41m05.99s	-22 35' 55.7"	10.061	11.014	0.5	13.7	1.3	-60.64	359.78	17.51	86.6	Sgr
19 Dez 2018	18h41m36.10s	-22 35' 30.7"	10.061	11.018	0.5	12.8	1.2	-60.63	1.40	17.55	86.6	Sgr
20 Dez 2018	18h42m06.27s	-22 35' 05.2"	10.061	11.021	0.5	11.9	1.2	-60.60	3.02	17.59	86.5	Sgr
21 Dez 2018	18h42m36.51s	-22 34' 39.2"	10.061	11.025	0.5	11.0	1.1	-60.56	4.63	17.63	86.5	Sgr
22 Dez 2018	18h43m06.80s	-22 34' 12.8"	10.061	11.028	0.5	10.1	1.0	-60.50	6.24	17.66	86.4	Sgr
23 Dez 2018	18h43m37.15s	-22 33' 45.9"	10.061	11.030	0.5	9.2	0.9	-60.43	7.84	17.69	86.4	Sgr
24 Dez 2018	18h44m07.54s	-22 33' 18.5"	10.061	11.033	0.5	8.3	0.8	-60.34	9.44	17.72	86.3	Sgr
25 Dez 2018	18h44m37.98s	-22 32' 50.7"	10.061	11.035	0.5	7.4	0.7	-60.24	11.03	17.74	86.3	Sgr
26 Dez 2018	18h45m08.45s	-22 32' 22.5"	10.061	11.037	0.5	6.5	0.6	-60.12	12.60	17.77	86.2	Sgr
27 Dez 2018	18h45m38.96s	-22 31' 53.7"	10.060	11.039	0.5	5.6	0.6	-59.99	14.17	17.79	86.2	Sgr
28 Dez 2018	18h46m09.50s	-22 31' 24.6"	10.060	11.040	0.5	4.7	0.5	-59.85	15.73	17.80	86.1	Sgr
29 Dez 2018	18h46m40.06s	-22 30' 55.0"	10.060	11.041	0.5	3.9	0.4	-59.69	17.27	17.82	86.0	Sgr
30 Dez 2018	18h47m10.65s	-22 30' 24.9"	10.060	11.042	0.5	3.0	0.3	-59.52	18.80	17.83	86.0	Sgr
31 Dez 2018	18h47m41.25s	-22 29' 54.5"	10.060	11.043	0.5	2.1	0.2	-59.33	20.32	17.84	85.9	Sgr
1 Jan 2019	18h48m11.86s	-22 29' 23.6"	10.060	11.043	0.5	1.2	0.1	-59.13	21.82	17.84	85.9	Sgr