



EPHEMERIDE 2021 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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1 Jan 2021	20h14m39.70s	-20 14' 14.3"	9.987	10.900	0.6	20.8	2.0	-57.43	343.78	17.21	77.8	Cap
2 Jan 2021	20h15m08.20s	-20 12' 47.1"	9.987	10.906	0.6	19.9	1.9	-57.55	345.28	17.27	77.8	Cap
3 Jan 2021	20h15m36.81s	-20 11' 19.2"	9.987	10.911	0.6	19.0	1.8	-57.66	346.78	17.33	77.8	Cap
4 Jan 2021	20h16m05.51s	-20 09' 50.8"	9.987	10.916	0.6	18.1	1.8	-57.75	348.30	17.39	77.7	Cap
5 Jan 2021	20h16m34.31s	-20 08' 21.9"	9.986	10.921	0.6	17.2	1.7	-57.82	349.82	17.45	77.7	Cap
6 Jan 2021	20h17m03.19s	-20 06' 52.3"	9.986	10.926	0.6	16.3	1.6	-57.89	351.34	17.51	77.7	Cap
7 Jan 2021	20h17m32.15s	-20 05' 22.2"	9.986	10.931	0.6	15.4	1.5	-57.93	352.87	17.56	77.6	Cap
8 Jan 2021	20h18m01.19s	-20 03' 51.6"	9.986	10.935	0.6	14.5	1.4	-57.97	354.40	17.61	77.6	Cap
9 Jan 2021	20h18m30.29s	-20 02' 20.4"	9.986	10.939	0.6	13.6	1.3	-57.99	355.93	17.66	77.6	Cap
10 Jan 2021	20h18m59.47s	-20 00' 48.8"	9.986	10.943	0.6	12.7	1.2	-57.99	357.46	17.70	77.5	Cap
11 Jan 2021	20h19m28.71s	-19 59' 16.6"	9.985	10.946	0.6	11.8	1.2	-57.98	359.00	17.74	77.5	Cap
12 Jan 2021	20h19m58.00s	-19 57' 44.0"	9.985	10.949	0.6	10.9	1.1	-57.96	0.53	17.78	77.4	Cap
13 Jan 2021	20h20m27.34s	-19 56' 10.9"	9.985	10.952	0.6	10.0	1.0	-57.92	2.06	17.81	77.4	Cap
14 Jan 2021	20h20m56.73s	-19 54' 37.4"	9.985	10.955	0.6	9.1	0.9	-57.87	3.58	17.84	77.4	Cap
15 Jan 2021	20h21m26.16s	-19 53' 03.4"	9.985	10.957	0.6	8.2	0.8	-57.80	5.10	17.87	77.3	Cap
16 Jan 2021	20h21m55.63s	-19 51' 29.0"	9.985	10.960	0.6	7.3	0.7	-57.72	6.62	17.89	77.3	Cap
17 Jan 2021	20h22m25.12s	-19 49' 54.2"	9.984	10.962	0.6	6.4	0.6	-57.63	8.13	17.91	77.3	Cap
18 Jan 2021	20h22m54.63s	-19 48' 19.1"	9.984	10.963	0.6	5.5	0.5	-57.52	9.63	17.93	77.2	Cap
19 Jan 2021	20h23m24.17s	-19 46' 43.6"	9.984	10.965	0.6	4.6	0.5	-57.40	11.12	17.95	77.2	Cap
20 Jan 2021	20h23m53.72s	-19 45' 07.7"	9.984	10.966	0.6	3.7	0.4	-57.26	12.61	17.96	77.2	Cap
21 Jan 2021	20h24m23.28s	-19 43' 31.5"	9.984	10.967	0.6	2.8	0.3	-57.11	14.08	17.97	77.1	Cap
22 Jan 2021	20h24m52.84s	-19 41' 55.0"	9.984	10.967	0.6	2.0	0.2	-56.95	15.54	17.97	77.1	Cap
23 Jan 2021	20h25m22.40s	-19 40' 18.2"	9.984	10.968	0.6	1.1	0.1	-56.77	16.99	17.98	77.1	Cap
24 Jan 2021	20h25m51.96s	-19 38' 41.1"	9.983	10.968	0.6	0.4	0.0	-56.58	18.43	17.98	77.0	Cap
25 Jan 2021	20h26m21.51s	-19 37' 03.8"	9.983	10.968	0.6	0.9	0.1	-56.38	19.86	17.97	77.0	Cap
26 Jan 2021	20h26m51.04s	-19 35' 26.2"	9.983	10.967	0.6	1.7	0.2	-56.17	21.28	17.97	77.0	Cap
27 Jan 2021	20h27m20.55s	-19 33' 48.4"	9.983	10.966	0.6	2.6	0.3	-55.94	22.68	17.96	76.9	Cap
28 Jan 2021	20h27m50.04s	-19 32' 10.4"	9.983	10.965	0.6	3.5	0.3	-55.71	24.06	17.95	76.9	Cap
29 Jan 2021	20h28m19.51s	-19 30' 32.2"	9.983	10.964	0.6	4.4	0.4	-55.46	25.43	17.94	76.9	Cap
30 Jan 2021	20h28m48.94s	-19 28' 53.8"	9.982	10.963	0.6	5.3	0.5	-55.20	26.79	17.92	76.8	Cap
31 Jan 2021	20h29m18.33s	-19 27' 15.3"	9.982	10.961	0.6	6.2	0.6	-54.93	28.13	17.90	76.8	Cap
1 Feb 2021	20h29m47.69s	-19 25' 36.6"	9.982	10.959	0.6	7.1	0.7	-54.64	29.46	17.88	76.8	Cap
2 Feb 2021	20h30m17.00s	-19 23' 57.8"	9.982	10.957	0.6	8.0	0.8	-54.35	30.77	17.86	76.7	Cap
3 Feb 2021	20h30m46.26s	-19 22' 18.9"	9.982	10.954	0.6	8.9	0.9	-54.05	32.06	17.83	76.7	Cap
4 Feb 2021	20h31m15.47s	-19 20' 39.9"	9.982	10.952	0.6	9.8	1.0	-53.73	33.34	17.80	76.7	Cap
5 Feb 2021	20h31m44.62s	-19 19' 00.8"	9.981	10.949	0.6	10.7	1.0	-53.41	34.60	17.77	76.6	Cap
6 Feb 2021	20h32m13.70s	-19 17' 21.7"	9.981	10.945	0.6	11.6	1.1	-53.08	35.85	17.73	76.6	Cap
7 Feb 2021	20h32m42.72s	-19 15' 42.6"	9.981	10.942	0.6	12.4	1.2	-52.73	37.08	17.70	76.6	Cap
8 Feb 2021	20h33m11.67s	-19 14' 03.4"	9.981	10.938	0.6	13.3	1.3	-52.38	38.29	17.65	76.5	Cap
9 Feb 2021	20h33m40.54s	-19 12' 24.2"	9.981	10.934	0.6	14.2	1.4	-52.02	39.49	17.61	76.5	Cap
10 Feb 2021	20h34m09.33s	-19 10' 45.1"	9.981	10.930	0.6	15.1	1.5	-51.65	40.67	17.56	76.5	Cap
11 Feb 2021	20h34m38.02s	-19 09' 06.0"	9.980	10.925	0.7	16.0	1.6	-51.28	41.84	17.51	76.4	Cap
12 Feb 2021	20h35m06.63s	-19 07' 27.0"	9.980	10.921	0.7	16.9	1.7	-50.89	42.99	17.46	76.4	Cap
13 Feb 2021	20h35m35.14s	-19 05' 48.1"	9.980	10.916	0.7	17.8	1.7	-50.50	44.13	17.40	76.4	Cap
14 Feb 2021	20h36m03.55s	-19 04' 09.3"	9.980	10.910	0.7	18.7	1.8	-50.10	45.25	17.34	76.4	Cap
15 Feb 2021	20h36m31.84s	-19 02' 30.6"	9.980	10.905	0.7	19.6	1.9	-49.69	46.35	17.28	76.3	Cap
16 Feb 2021	20h37m00.03s	-19 00' 52.1"	9.980	10.899	0.7	20.5	2.0	-49.27	47.44	17.21	76.3	Cap
17 Feb 2021	20h37m28.10s	-18 59' 13.8"	9.979	10.893	0.7	21.4	2.1	-48.85	48.52	17.14	76.3	Cap
18 Feb 2021	20h37m56.05s	-18 57' 35.6"	9.979	10.887	0.7	22.3	2.2	-48.42	49.58	17.07	76.3	Cap
19 Feb 2021	20h38m23.87s	-18 55' 57.7"	9.979	10.880	0.7	23.2	2.2	-47.99	50.63	17.00	76.2	Cap
20 Feb 2021	20h38m51.56s	-18 54' 20.0"	9.979	10.873	0.7	24.1	2.3	-47.55	51.67	16.92	76.2	Cap
21 Feb 2021	20h39m19.12s	-18 52' 42.6"	9.979	10.866	0.7	25.0	2.4	-47.10	52.69	16.84	76.2	Cap
22 Feb 2021	20h39m46.53s	-18 51' 05.5"	9.979	10.859	0.7	25.9	2.5	-46.65	53.70	16.76	76.1	Cap
23 Feb 2021	20h40m13.81s	-18 49' 28.7"	9.978	10.852	0.7	26.8	2.6	-46.19	54.70	16.67	76.1	Cap
24 Feb 2021	20h40m41.93s	-18 47' 52.2"	9.978	10.844	0.7	27.7	2.6	-45.72	55.68	16.58	76.1	Cap
25 Feb 2021	20h41m07.91s	-18 46' 16.0"	9.978	10.836	0.7	28.6	2.7	-45.25	56.65	16.49	76.1	Cap
26 Feb 2021	20h41m34.73s	-18 44' 40.2"	9.978	10.828	0.7	29.5	2.8	-44.78	57.61	16.40	76.1	Cap
27 Feb 2021	20h42m01.40s	-18 43' 04.8"	9.978	10.820	0.7	30.4	2.9	-44.30	58.56	16.30	76.0	Cap
28 Feb 2021	20h42m27.90s	-18 41' 29.8"	9.978	10.811	0.7	31.3	3.0	-43.81	59.50	16.21	76.0	Cap
1 Mar 2021	20h42m54.23s	-18 39' 55.2"	9.977	10.802	0.7	32.2	3.0	-43.32	60.42	16.11	76.0	Cap
2 Mar 2021	20h43m20.39s	-18 38' 21.1"	9.977	10.793	0.7	33.1	3.1	-42.83	61.34	16.00	76.0	Cap
3 Mar 2021	20h43m46.38s	-18 36' 47.4"	9.977	10.784	0.7	33.9	3.2	-42.33	62.24	15.90	75.9	Cap
4 Mar 2021	20h44m12.20s	-18 35' 14.2"	9.977	10.775	0.7	34.8	3.3	-41.83	63.14	15.79	75.9	Cap
5 Mar 2021	20h44m37.83s	-18 33' 41.5"	9.977	10.765	0.7	35.7	3.3	-41.32	64.03	15.68	75.9	Cap
6 Mar 2021	20h45m03.27s	-18 32' 09.4"	9.977	10.755	0.7	36.6	3.4	-40.81	64.90	15.57	75.9	Cap
7 Mar 2021	20h45m28.52s	-18 30' 37.8"	9.976	10.745	0.7	37.5	3.5	-40.30	65.77	15.45	75.9	Cap
8 Mar 2021	20h45m53.58s	-18 29' 06.7"	9.976	10.735	0.7	38.4	3.5	-39.78	66.63	15.33	75.9	Cap
9 Mar 2021	20h46m18.43s	-18 27' 36.3"	9.976	10.724	0.7	39.3	3.6	-39.26	67.48	15.21	75.8	Cap
10 Mar 2021	20h46m43.08s	-18 26' 06.5"	9.976	10.713	0.7	40.2	3.7	-38.73	68.32	15.08	75.8	Cap
11 Mar 2021	20h47m07.52s	-18 24' 37.3"	9.976	10.703	0.7	41.1	3.8	-38.21	69.15	14.95	75.8	Cap
12 Mar 2021	20h47m31.75s	-18 23' 08.8"	9.976	10.691	0.7	42.0	3.8	-37.68	69.98	14.82	75.8	Cap
13 Mar 2021	20h47m55.76s	-18 21' 41.0"	9.975	10.680	0.7	42.9	3.9	-37.14	70.80	14.69	75.8	Cap
14 Mar 2021	20h48m19.54s	-18 20' 13.9"	9.975	10.669	0.7	43.8	4.0	-36.61	71.61	14.55	75.8	Cap
15 Mar 2021	20h48m43.10s	-18 18' 47.5"	9.975	10.657	0.7	44.7	4.0	-36.07	72.41	14.41	75.8	Cap

EPHEMERIDE 2021 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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16 Mar 2021	20h49m06.43s	-18 17' 21.9"	9.975	10.645	0.7	45.6	4.1	-35.52	73.21	14.27	75.7	Cap
17 Mar 2021	20h49m29.52s	-18 15' 57.0"	9.975	10.633	0.7	46.5	4.2	-34.98	74.00	14.13	75.7	Cap
18 Mar 2021	20h49m52.37s	-18 14' 33.0"	9.975	10.621	0.7	47.4	4.2	-34.43	74.79	13.98	75.7	Cap
19 Mar 2021	20h50m14.98s	-18 13' 09.8"	9.974	10.608	0.7	48.3	4.3	-33.88	75.57	13.83	75.7	Cap
20 Mar 2021	20h50m37.34s	-18 11' 47.4"	9.974	10.596	0.7	49.2	4.3	-33.33	76.34	13.68	75.7	Cap
21 Mar 2021	20h50m59.46s	-18 10' 25.9"	9.974	10.583	0.8	50.1	4.4	-32.78	77.11	13.52	75.7	Cap
22 Mar 2021	20h51m21.31s	-18 09' 05.3"	9.974	10.570	0.8	51.1	4.5	-32.22	77.87	13.37	75.7	Cap
23 Mar 2021	20h51m42.91s	-18 07' 45.5"	9.974	10.557	0.8	52.0	4.5	-31.66	78.63	13.21	75.7	Cap
24 Mar 2021	20h52m04.25s	-18 06' 26.8"	9.974	10.544	0.8	52.9	4.6	-31.10	79.39	13.04	75.7	Cap
25 Mar 2021	20h52m25.32s	-18 05' 08.9"	9.973	10.530	0.8	53.8	4.6	-30.54	80.14	12.88	75.7	Cap
26 Mar 2021	20h52m46.13s	-18 03' 52.1"	9.973	10.517	0.8	54.7	4.7	-29.98	80.88	12.72	75.7	Cap
27 Mar 2021	20h53m06.66s	-18 02' 36.2"	9.973	10.503	0.8	55.6	4.7	-29.41	81.62	12.55	75.7	Cap
28 Mar 2021	20h53m26.92s	-18 01' 21.3"	9.973	10.489	0.8	56.5	4.8	-28.85	82.36	12.38	75.7	Cap
29 Mar 2021	20h53m46.91s	-18 00' 07.5"	9.973	10.475	0.8	57.4	4.8	-28.28	83.09	12.21	75.7	Cap
30 Mar 2021	20h54m06.61s	-17 58' 54.7"	9.973	10.461	0.8	58.3	4.9	-27.71	83.82	12.03	75.7	Cap
31 Mar 2021	20h54m26.03s	-17 57' 42.9"	9.972	10.447	0.8	59.2	4.9	-27.14	84.55	11.86	75.7	Cap
1 Apr 2021	20h54m45.16s	-17 56' 32.3"	9.972	10.432	0.8	60.1	5.0	-26.57	85.27	11.68	75.7	Cap
2 Apr 2021	20h55m04.00s	-17 55' 22.7"	9.972	10.418	0.8	61.0	5.0	-26.00	86.00	11.50	75.7	Cap
3 Apr 2021	20h55m22.55s	-17 54' 14.3"	9.972	10.403	0.8	61.9	5.1	-25.42	86.71	11.31	75.7	Cap
4 Apr 2021	20h55m40.80s	-17 53' 07.0"	9.972	10.388	0.8	62.8	5.1	-24.85	87.43	11.13	75.8	Cap
5 Apr 2021	20h55m58.75s	-17 52' 00.9"	9.972	10.373	0.8	63.8	5.2	-24.27	88.14	10.94	75.8	Cap
6 Apr 2021	20h56m16.39s	-17 50' 55.9"	9.971	10.358	0.8	64.7	5.2	-23.70	88.86	10.75	75.8	Cap
7 Apr 2021	20h56m33.72s	-17 49' 52.2"	9.971	10.343	0.8	65.6	5.2	-23.12	89.57	10.56	75.8	Cap
8 Apr 2021	20h56m50.74s	-17 48' 49.6"	9.971	10.328	0.8	66.5	5.3	-22.54	90.27	10.36	75.8	Cap
9 Apr 2021	20h57m07.44s	-17 47' 48.4"	9.971	10.313	0.8	67.4	5.3	-21.97	90.98	10.16	75.9	Cap
10 Apr 2021	20h57m23.83s	-17 46' 48.4"	9.971	10.297	0.8	68.3	5.4	-21.39	91.69	9.96	75.9	Cap
11 Apr 2021	20h57m39.88s	-17 45' 49.6"	9.971	10.282	0.7	69.2	5.4	-20.81	92.39	9.76	75.9	Cap
12 Apr 2021	20h57m55.61s	-17 44' 52.2"	9.970	10.266	0.7	70.2	5.4	-20.23	93.09	9.56	75.9	Cap
13 Apr 2021	20h58m11.01s	-17 43' 56.1"	9.970	10.250	0.7	71.1	5.5	-19.65	93.80	9.35	76.0	Cap
14 Apr 2021	20h58m26.08s	-17 43' 01.4"	9.970	10.234	0.7	72.0	5.5	-19.07	94.50	9.14	76.0	Cap
15 Apr 2021	20h58m40.81s	-17 42' 08.0"	9.970	10.218	0.7	72.9	5.5	-18.49	95.20	8.93	76.0	Cap
16 Apr 2021	20h58m55.20s	-17 41' 16.0"	9.970	10.202	0.7	73.8	5.5	-17.91	95.90	8.72	76.1	Cap
17 Apr 2021	20h59m09.25s	-17 40' 25.3"	9.969	10.186	0.7	74.8	5.6	-17.33	96.60	8.50	76.1	Cap
18 Apr 2021	20h59m22.96s	-17 39' 36.1"	9.969	10.170	0.7	75.7	5.6	-16.76	97.30	8.29	76.2	Cap
19 Apr 2021	20h59m36.31s	-17 38' 48.3"	9.969	10.154	0.7	76.6	5.6	-16.18	98.00	8.07	76.2	Cap
20 Apr 2021	20h59m49.32s	-17 38' 02.0"	9.969	10.138	0.7	77.5	5.6	-15.60	98.70	7.85	76.3	Cap
21 Apr 2021	21h00m01.98s	-17 37' 17.1"	9.969	10.121	0.7	78.4	5.7	-15.02	99.40	7.63	76.4	Cap
22 Apr 2021	21h00m14.28s	-17 36' 33.6"	9.969	10.105	0.7	79.4	5.7	-14.44	100.11	7.41	76.5	Cap
23 Apr 2021	21h00m26.23s	-17 35' 51.7"	9.968	10.088	0.7	80.3	5.7	-13.87	100.81	7.19	76.5	Cap
24 Apr 2021	21h00m37.82s	-17 35' 11.2"	9.968	10.072	0.7	81.2	5.7	-13.29	101.51	6.96	76.6	Cap
25 Apr 2021	21h00m49.05s	-17 34' 32.2"	9.968	10.055	0.7	82.2	5.7	-12.72	102.22	6.74	76.7	Cap
26 Apr 2021	21h00m59.92s	-17 33' 54.8"	9.968	10.039	0.7	83.1	5.8	-12.14	102.92	6.51	76.8	Cap
27 Apr 2021	21h01m10.43s	-17 33' 18.9"	9.968	10.022	0.7	84.0	5.8	-11.57	103.63	6.28	76.9	Cap
28 Apr 2021	21h01m20.57s	-17 32' 44.5"	9.968	10.006	0.7	84.9	5.8	-11.00	104.34	6.06	77.0	Cap
29 Apr 2021	21h01m30.35s	-17 32' 11.6"	9.967	9.989	0.7	85.9	5.8	-10.43	105.05	5.83	77.2	Cap
30 Apr 2021	21h01m39.76s	-17 31' 40.3"	9.967	9.972	0.7	86.8	5.8	-9.86	105.76	5.59	77.3	Cap
1 Mai 2021	21h01m48.79s	-17 31' 10.6"	9.967	9.956	0.7	87.7	5.8	-9.29	106.47	5.36	77.5	Cap
2 Mai 2021	21h01m57.45s	-17 30' 42.5"	9.967	9.939	0.7	88.7	5.8	-8.72	107.19	5.13	77.6	Cap
3 Mai 2021	21h02m05.74s	-17 30' 16.0"	9.967	9.922	0.7	89.6	5.8	-8.16	107.91	4.89	77.8	Cap
4 Mai 2021	21h02m13.64s	-17 29' 51.0"	9.967	9.906	0.7	90.6	5.8	-7.60	108.63	4.65	78.1	Cap
5 Mai 2021	21h02m21.17s	-17 29' 27.7"	9.966	9.889	0.7	91.5	5.8	-7.03	109.35	4.41	78.3	Cap
6 Mai 2021	21h02m28.32s	-17 29' 06.0"	9.966	9.872	0.7	92.4	5.8	-6.47	110.08	4.17	78.6	Cap
7 Mai 2021	21h02m35.08s	-17 28' 46.0"	9.966	9.856	0.7	93.4	5.8	-5.92	110.80	3.93	78.9	Cap
8 Mai 2021	21h02m41.45s	-17 28' 27.6"	9.966	9.839	0.7	94.3	5.8	-5.36	111.54	3.69	79.2	Cap
9 Mai 2021	21h02m47.43s	-17 28' 10.8"	9.966	9.822	0.7	95.3	5.8	-4.81	112.27	3.45	79.6	Cap
10 Mai 2021	21h02m53.03s	-17 27' 55.7"	9.965	9.806	0.7	96.2	5.8	-4.26	113.01	3.21	80.1	Cap
11 Mai 2021	21h02m58.24s	-17 27' 42.3"	9.965	9.789	0.7	97.1	5.8	-3.71	113.75	2.96	80.6	Cap
12 Mai 2021	21h03m03.05s	-17 27' 30.6"	9.965	9.773	0.7	98.1	5.8	-3.16	114.49	2.72	81.2	Cap
13 Mai 2021	21h03m07.48s	-17 27' 20.5"	9.965	9.756	0.7	99.0	5.7	-2.62	115.24	2.47	82.0	Cap
14 Mai 2021	21h03m11.50s	-17 27' 12.1"	9.965	9.740	0.7	100.0	5.7	-2.08	115.99	2.23	82.9	Cap
15 Mai 2021	21h03m15.14s	-17 27' 05.4"	9.965	9.723	0.7	100.9	5.7	-1.54	116.74	1.99	84.1	Cap
16 Mai 2021	21h03m18.38s	-17 27' 00.4"	9.964	9.707	0.7	101.9	5.7	-1.01	117.50	1.74	85.6	Cap
17 Mai 2021	21h03m21.23s	-17 26' 57.1"	9.964	9.690	0.6	102.8	5.7	-0.47	118.26	1.50	87.6	Cap
18 Mai 2021	21h03m23.69s	-17 26' 55.5"	9.964	9.674	0.6	103.8	5.7	0.05	119.03	1.27	90.3	Cap
19 Mai 2021	21h03m25.75s	-17 26' 55.6"	9.964	9.658	0.6	104.8	5.6	0.58	119.80	1.03	94.3	Cap
20 Mai 2021	21h03m27.42s	-17 26' 57.4"	9.964	9.642	0.6	105.7	5.6	1.10	120.58	0.81	100.5	Cap
21 Mai 2021	21h03m28.69s	-17 27' 00.8"	9.963	9.626	0.6	106.7	5.6	1.62	121.36	0.60	111.3	Cap
22 Mai 2021	21h03m29.57s	-17 27' 05.9"	9.963	9.610	0.6	107.6	5.6	2.13	122.14	0.43	131.9	Cap
23 Mai 2021	21h03m30.06s	-17 27' 12.8"	9.963	9.594	0.6	108.6	5.5	2.64	122.93	0.37	166.7	Cap
24 Mai 2021	21h03m30.17s	-17 27' 21.2"	9.963	9.578	0.6	109.5	5.5	3.15	123.72	0.45	199.5	Cap
25 Mai 2021	21h03m29.88s	-17 27' 31.4"	9.963	9.563	0.6	110.5	5.5	3.65	124.52	0.63	217.9	Cap
26 Mai 2021	21h03m29.20s	-17 27' 43.2"	9.963	9.547	0.6	111.5	5.4	4.14	125.33	0.84	227.7	Cap
27 Mai 2021	21h03m28.13s	-17 27' 56.7"	9.962	9.532	0.6	112.4	5.4	4.64	126.13	1.06	233.5	Cap
28 Mai 2021	21h03m26.67s	-17 28' 11.9"	9.962	9.516	0.6	113.4	5.4	5.12	126.95	1.29	237.2	Cap

EPHEMERIDE 2021 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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29 Mai 2021	21h03m24.83s	-17 28' 28.6"	9.962	9.501	0.6	114.4	5.3	5.61	127.77	1.53	239.8	Cap
30 Mai 2021	21h03m22.60s	-17 28' 47.1"	9.962	9.486	0.6	115.3	5.3	6.08	128.59	1.76	241.7	Cap
31 Mai 2021	21h03m19.98s	-17 29' 07.2"	9.962	9.471	0.6	116.3	5.2	6.56	129.42	2.00	243.1	Cap
1 Jun 2021	21h03m16.98s	-17 29' 28.9"	9.962	9.456	0.6	117.3	5.2	7.02	130.26	2.24	244.3	Cap
2 Jun 2021	21h03m13.59s	-17 29' 52.2"	9.961	9.441	0.6	118.3	5.1	7.49	131.10	2.47	245.2	Cap
3 Jun 2021	21h03m09.82s	-17 30' 17.1"	9.961	9.426	0.6	119.2	5.1	7.94	131.95	2.71	246.0	Cap
4 Jun 2021	21h03m05.67s	-17 30' 43.7"	9.961	9.412	0.6	120.2	5.0	8.39	132.80	2.95	246.6	Cap
5 Jun 2021	21h03m01.14s	-17 31' 11.8"	9.961	9.398	0.5	121.2	5.0	8.84	133.66	3.18	247.1	Cap
6 Jun 2021	21h02m56.22s	-17 31' 41.6"	9.961	9.383	0.5	122.2	4.9	9.27	134.52	3.42	247.6	Cap
7 Jun 2021	21h02m50.38s	-17 32' 12.9"	9.960	9.369	0.5	123.1	4.9	9.71	135.39	3.65	248.0	Cap
8 Jun 2021	21h02m45.27s	-17 32' 45.8"	9.960	9.355	0.5	124.1	4.8	10.13	136.27	3.88	248.4	Cap
9 Jun 2021	21h02m39.23s	-17 33' 20.2"	9.960	9.342	0.5	125.1	4.8	10.55	137.15	4.11	248.7	Cap
10 Jun 2021	21h02m32.83s	-17 33' 56.2"	9.960	9.328	0.5	126.1	4.7	10.96	138.04	4.34	249.0	Cap
11 Jun 2021	21h02m26.06s	-17 34' 33.6"	9.960	9.315	0.5	127.1	4.7	11.37	138.94	4.57	249.2	Cap
12 Jun 2021	21h02m18.92s	-17 35' 12.6"	9.960	9.301	0.5	128.1	4.6	11.76	139.84	4.79	249.5	Cap
13 Jun 2021	21h02m11.43s	-17 35' 53.0"	9.959	9.288	0.5	129.0	4.5	12.15	140.75	5.02	249.7	Cap
14 Jun 2021	21h02m03.58s	-17 36' 35.0"	9.959	9.275	0.5	130.0	4.5	12.54	141.66	5.24	249.9	Cap
15 Jun 2021	21h01m55.38s	-17 37' 18.3"	9.959	9.263	0.5	131.0	4.4	12.91	142.58	5.45	250.0	Cap
16 Jun 2021	21h01m46.83s	-17 38' 03.1"	9.959	9.250	0.5	132.0	4.3	13.28	143.51	5.67	250.2	Cap
17 Jun 2021	21h01m37.94s	-17 38' 49.2"	9.959	9.238	0.5	133.0	4.3	13.64	144.44	5.88	250.4	Cap
18 Jun 2021	21h01m28.71s	-17 39' 36.8"	9.958	9.226	0.5	134.0	4.2	13.99	145.38	6.09	250.5	Cap
19 Jun 2021	21h01m19.15s	-17 40' 25.6"	9.958	9.214	0.5	135.0	4.1	14.33	146.32	6.29	250.6	Cap
20 Jun 2021	21h01m09.25s	-17 41' 15.8"	9.958	9.202	0.5	136.0	4.1	14.66	147.27	6.49	250.8	Cap
21 Jun 2021	21h00m59.03s	-17 42' 07.3"	9.958	9.191	0.4	137.0	4.0	14.99	148.23	6.69	250.9	Cap
22 Jun 2021	21h00m48.49s	-17 43' 00.1"	9.958	9.179	0.4	138.0	3.9	15.31	149.19	6.89	251.0	Cap
23 Jun 2021	21h00m37.64s	-17 43' 54.1"	9.958	9.168	0.4	139.0	3.8	15.61	150.16	7.08	251.1	Cap
24 Jun 2021	21h00m26.48s	-17 44' 49.3"	9.957	9.157	0.4	140.0	3.8	15.91	151.13	7.27	251.2	Cap
25 Jun 2021	21h00m15.01s	-17 45' 45.7"	9.957	9.147	0.4	141.0	3.7	16.20	152.11	7.46	251.3	Cap
26 Jun 2021	21h00m03.23s	-17 46' 43.2"	9.957	9.136	0.4	142.0	3.6	16.48	153.10	7.64	251.4	Cap
27 Jun 2021	20h59m51.17s	-17 47' 42.0"	9.957	9.126	0.4	143.0	3.5	16.74	154.09	7.82	251.5	Cap
28 Jun 2021	20h59m38.81s	-17 48' 41.8"	9.957	9.116	0.4	144.0	3.4	17.00	155.09	8.00	251.6	Cap
29 Jun 2021	20h59m26.16s	-17 49' 42.7"	9.956	9.107	0.4	145.0	3.4	17.25	156.09	8.18	251.7	Cap
30 Jun 2021	20h59m13.23s	-17 50' 44.6"	9.956	9.097	0.4	146.0	3.3	17.49	157.10	8.35	251.7	Cap
1 Jul 2021	20h59m00.03s	-17 51' 47.6"	9.956	9.088	0.4	147.0	3.2	17.72	158.11	8.52	251.8	Cap
2 Jul 2021	20h58m46.56s	-17 52' 51.6"	9.956	9.079	0.4	148.0	3.1	17.93	159.12	8.68	251.9	Cap
3 Jul 2021	20h58m32.82s	-17 53' 56.6"	9.956	9.070	0.4	149.0	3.0	18.14	160.15	8.84	252.0	Cap
4 Jul 2021	20h58m18.82s	-17 55' 02.4"	9.956	9.062	0.4	150.1	2.9	18.33	161.17	8.99	252.0	Cap
5 Jul 2021	20h58m04.58s	-17 56' 09.2"	9.955	9.053	0.4	151.1	2.8	18.52	162.20	9.14	252.1	Cap
6 Jul 2021	20h57m50.09s	-17 57' 16.9"	9.955	9.045	0.3	152.1	2.7	18.69	163.24	9.29	252.2	Cap
7 Jul 2021	20h57m35.36s	-17 58' 25.4"	9.955	9.038	0.3	153.1	2.6	18.85	164.28	9.43	252.2	Cap
8 Jul 2021	20h57m20.40s	-17 59' 34.7"	9.955	9.030	0.3	154.1	2.6	19.00	165.32	9.57	252.3	Cap
9 Jul 2021	20h57m05.22s	-18 00' 44.8"	9.955	9.023	0.3	155.1	2.5	19.14	166.36	9.70	252.4	Cap
10 Jul 2021	20h56m49.82s	-18 01' 55.6"	9.954	9.016	0.3	156.1	2.4	19.27	167.41	9.83	252.4	Cap
11 Jul 2021	20h56m34.21s	-18 03' 07.1"	9.954	9.009	0.3	157.2	2.3	19.38	168.47	9.95	252.5	Cap
12 Jul 2021	20h56m18.41s	-18 04' 19.3"	9.954	9.003	0.3	158.2	2.2	19.49	169.52	10.07	252.5	Cap
13 Jul 2021	20h56m02.42s	-18 05' 32.1"	9.954	8.9970	0.3	159.2	2.1	19.58	170.58	10.18	252.6	Cap
14 Jul 2021	20h55m46.24s	-18 06' 45.4"	9.954	8.9912	0.3	160.2	2.0	19.66	171.64	10.29	252.6	Cap
15 Jul 2021	20h55m29.88s	-18 07' 59.3"	9.953	8.9856	0.3	161.2	1.9	19.73	172.70	10.39	252.7	Cap
16 Jul 2021	20h55m13.37s	-18 09' 13.7"	9.953	8.9804	0.3	162.3	1.8	19.78	173.76	10.49	252.8	Cap
17 Jul 2021	20h54m56.69s	-18 10' 28.6"	9.953	8.9754	0.3	163.3	1.7	19.83	174.83	10.58	252.8	Cap
18 Jul 2021	20h54m39.87s	-18 11' 43.9"	9.953	8.9707	0.3	164.3	1.6	19.86	175.89	10.66	252.9	Cap
19 Jul 2021	20h54m22.90s	-18 12' 59.5"	9.953	8.9663	0.3	165.3	1.5	19.88	176.96	10.74	252.9	Cap
20 Jul 2021	20h54m05.81s	-18 14' 15.5"	9.953	8.9622	0.3	166.4	1.4	19.89	178.03	10.82	253.0	Cap
21 Jul 2021	20h53m48.59s	-18 15' 31.9"	9.952	8.9584	0.2	167.4	1.3	19.88	179.10	10.89	253.0	Cap
22 Jul 2021	20h53m31.25s	-18 16' 48.5"	9.952	8.9548	0.2	168.4	1.2	19.86	180.17	10.95	253.1	Cap
23 Jul 2021	20h53m13.81s	-18 18' 05.3"	9.952	8.9516	0.2	169.4	1.1	19.84	181.24	11.01	253.1	Cap
24 Jul 2021	20h52m56.27s	-18 19' 22.3"	9.952	8.9486	0.2	170.4	1.0	19.79	182.30	11.06	253.2	Cap
25 Jul 2021	20h52m38.65s	-18 20' 39.5"	9.952	8.9460	0.2	171.5	0.9	19.74	183.37	11.11	253.2	Cap
26 Jul 2021	20h52m20.93s	-18 21' 56.7"	9.951	8.9436	0.2	172.5	0.8	19.67	184.44	11.16	253.3	Cap
27 Jul 2021	20h52m03.15s	-18 23' 14.1"	9.951	8.9415	0.2	173.5	0.7	19.60	185.50	11.20	253.3	Cap
28 Jul 2021	20h51m45.30s	-18 24' 31.5"	9.951	8.9397	0.2	174.5	0.6	19.51	186.57	11.23	253.4	Cap
29 Jul 2021	20h51m27.39s	-18 25' 49.0"	9.951	8.9383	0.2	175.6	0.5	19.40	187.63	11.26	253.4	Cap
30 Jul 2021	20h51m09.44s	-18 27' 06.4"	9.951	8.9371	0.2	176.6	0.4	19.29	188.69	11.28	253.5	Cap
31 Jul 2021	20h50m51.44s	-18 28' 23.7"	9.950	8.9362	0.2	177.6	0.2	19.16	189.75	11.29	253.5	Cap
1 Aug 2021	20h50m33.42s	-18 29' 41.0"	9.950	8.9356	0.2	178.5	0.2	19.02	190.80	11.30	253.6	Cap
2 Aug 2021	20h50m15.37s	-18 30' 58.1"	9.950	8.9353	0.2	179.2	0.1	18.87	191.85	11.31	253.6	Cap
3 Aug 2021	20h49m57.32s	-18 32' 15.0"	9.950	8.9353	0.2	179.9	0.1	18.71	192.90	11.31	253.6	Cap
4 Aug 2021	20h49m39.26s	-18 33' 31.7"	9.950	8.9356	0.2	178.0	0.2	18.54	193.95	11.30	253.7	Cap
5 Aug 2021	20h49m21.21s	-18 34' 48.2"	9.950	8.9362	0.2	177.1	0.3	18.36	194.99	11.29	253.7	Cap
6 Aug 2021	20h49m03.18s	-18 36' 04.4"	9.949	8.9372	0.2	176.0	0.4	18.16	196.03	11.27	253.8	Cap
7 Aug 2021	20h48m45.18s	-18 37' 20.3"	9.949	8.9384	0.2	175.0	0.5	17.95	197.07	11.24	253.8	Cap
8 Aug 2021	20h48m27.21s	-18 38' 35.7"	9.949	8.9399	0.2	174.0	0.6	17.73	198.10	11.21	253.9	Cap
9 Aug 2021	20h48m09.29s	-18 39' 50.8"	9.949	8.9417	0.2	173.0	0.7	17.51	199.12	11.17	253.9	Cap
10 Aug 2021	20h47m51.43s	-18 41' 05.5"	9.949	8.9438	0.2	172.0	0.8	17.27	200.15	11.13	254.0	Cap

EPHEMERIDE 2021 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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11 Aug 2021	20h47m33.63s	-18 42' 19.6"	9.948	8.9462	0.2	170.9	0.9	17.01	201.16	11.08	254.0	Cap
12 Aug 2021	20h47m15.91s	-18 43' 33.3"	9.948	8.9489	0.2	169.9	1.0	16.75	202.18	11.02	254.0	Cap
13 Aug 2021	20h46m58.28s	-18 44' 46.4"	9.948	8.9519	0.2	168.9	1.1	16.48	203.19	10.96	254.1	Cap
14 Aug 2021	20h46m40.74s	-18 45' 58.9"	9.948	8.9552	0.2	167.8	1.2	16.20	204.19	10.90	254.1	Cap
15 Aug 2021	20h46m23.31s	-18 47' 10.8"	9.948	8.9588	0.2	166.8	1.3	15.91	205.19	10.82	254.2	Cap
16 Aug 2021	20h46m05.99s	-18 48' 22.1"	9.947	8.9627	0.2	165.8	1.4	15.61	206.18	10.75	254.2	Cap
17 Aug 2021	20h45m48.80s	-18 49' 32.6"	9.947	8.9669	0.2	164.8	1.5	15.30	207.17	10.66	254.2	Cap
18 Aug 2021	20h45m31.73s	-18 50' 42.5"	9.947	8.9713	0.2	163.7	1.6	14.97	208.15	10.57	254.3	Cap
19 Aug 2021	20h45m14.81s	-18 51' 51.6"	9.947	8.9761	0.2	162.7	1.7	14.64	209.13	10.48	254.3	Cap
20 Aug 2021	20h44m58.04s	-18 52' 59.9"	9.947	8.9811	0.2	161.7	1.8	14.30	210.10	10.38	254.4	Cap
21 Aug 2021	20h44m41.42s	-18 54' 07.4"	9.946	8.9864	0.3	160.6	1.9	13.96	211.06	10.28	254.4	Cap
22 Aug 2021	20h44m24.96s	-18 55' 14.0"	9.946	8.9920	0.3	159.6	2.0	13.60	212.02	10.17	254.4	Cap
23 Aug 2021	20h44m08.68s	-18 56' 19.8"	9.946	8.9979	0.3	158.6	2.1	13.23	212.97	10.06	254.5	Cap
24 Aug 2021	20h43m52.57s	-18 57' 24.8"	9.946	9.004	0.3	157.5	2.2	12.86	213.92	9.94	254.5	Cap
25 Aug 2021	20h43m36.66s	-18 58' 28.8"	9.946	9.010	0.3	156.5	2.3	12.47	214.86	9.81	254.6	Cap
26 Aug 2021	20h43m20.94s	-18 59' 31.8"	9.946	9.017	0.3	155.5	2.4	12.08	215.80	9.69	254.6	Cap
27 Aug 2021	20h43m05.42s	-19 00' 33.9"	9.945	9.024	0.3	154.5	2.5	11.68	216.73	9.56	254.7	Cap
28 Aug 2021	20h42m58.12s	-19 01' 35.0"	9.945	9.031	0.3	153.4	2.6	11.28	217.65	9.42	254.7	Cap
29 Aug 2021	20h42m35.03s	-19 02' 35.1"	9.945	9.039	0.3	152.4	2.7	10.86	218.57	9.28	254.7	Cap
30 Aug 2021	20h42m20.17s	-19 03' 34.2"	9.945	9.047	0.3	151.4	2.8	10.44	219.48	9.13	254.8	Cap
31 Aug 2021	20h42m05.55s	-19 04' 32.1"	9.945	9.055	0.3	150.4	2.9	10.01	220.39	8.98	254.8	Cap
1 Sep 2021	20h41m51.16s	-19 05' 29.0"	9.944	9.063	0.3	149.3	3.0	9.58	221.29	8.82	254.8	Cap
2 Sep 2021	20h41m37.03s	-19 06' 24.8"	9.944	9.072	0.3	148.3	3.1	9.13	222.18	8.66	254.9	Cap
3 Sep 2021	20h41m23.16s	-19 07' 19.4"	9.944	9.080	0.3	147.3	3.1	8.68	223.07	8.50	254.9	Cap
4 Sep 2021	20h41m09.55s	-19 08' 12.9"	9.944	9.089	0.3	146.3	3.2	8.23	223.96	8.33	255.0	Cap
5 Sep 2021	20h40m56.22s	-19 09' 05.2"	9.944	9.099	0.3	145.2	3.3	7.77	224.83	8.15	255.0	Cap
6 Sep 2021	20h40m43.16s	-19 09' 56.3"	9.943	9.108	0.3	144.2	3.4	7.30	225.71	7.98	255.0	Cap
7 Sep 2021	20h40m30.40s	-19 10' 46.2"	9.943	9.118	0.3	143.2	3.5	6.82	226.57	7.79	255.1	Cap
8 Sep 2021	20h40m17.92s	-19 11' 34.8"	9.943	9.128	0.3	142.2	3.6	6.34	227.43	7.61	255.1	Cap
9 Sep 2021	20h40m05.75s	-19 12' 22.1"	9.943	9.138	0.4	141.1	3.6	5.86	228.29	7.42	255.1	Cap
10 Sep 2021	20h39m53.89s	-19 13' 08.2"	9.943	9.149	0.4	140.1	3.7	5.37	229.14	7.22	255.2	Cap
11 Sep 2021	20h39m42.34s	-19 13' 53.0"	9.942	9.160	0.4	139.1	3.8	4.87	229.98	7.02	255.2	Cap
12 Sep 2021	20h39m31.12s	-19 14' 36.4"	9.942	9.170	0.4	138.1	3.9	4.37	230.82	6.82	255.3	Cap
13 Sep 2021	20h39m20.21s	-19 15' 18.5"	9.942	9.182	0.4	137.1	4.0	3.87	231.66	6.62	255.3	Cap
14 Sep 2021	20h39m09.64s	-19 15' 59.2"	9.942	9.193	0.4	136.1	4.0	3.36	232.49	6.41	255.3	Cap
15 Sep 2021	20h38m59.41s	-19 16' 38.6"	9.942	9.205	0.4	135.0	4.1	2.84	233.31	6.20	255.4	Cap
16 Sep 2021	20h38m49.51s	-19 17' 16.6"	9.941	9.216	0.4	134.0	4.2	2.32	234.13	5.99	255.4	Cap
17 Sep 2021	20h38m39.96s	-19 17' 53.2"	9.941	9.228	0.4	133.0	4.2	1.80	234.94	5.77	255.5	Cap
18 Sep 2021	20h38m30.76s	-19 18' 28.4"	9.941	9.241	0.4	132.0	4.3	1.27	235.76	5.55	255.5	Cap
19 Sep 2021	20h38m21.91s	-19 19' 02.2"	9.941	9.253	0.4	131.0	4.4	0.74	236.56	5.33	255.6	Cap
20 Sep 2021	20h38m13.42s	-19 19' 34.6"	9.941	9.266	0.4	130.0	4.4	0.20	237.36	5.11	255.6	Cap
21 Sep 2021	20h38m05.29s	-19 20' 05.5"	9.941	9.278	0.4	129.0	4.5	-0.34	238.16	4.88	255.7	Cap
22 Sep 2021	20h37m57.53s	-19 20' 35.0"	9.940	9.291	0.4	128.0	4.6	-0.88	238.95	4.66	255.7	Cap
23 Sep 2021	20h37m50.13s	-19 21' 03.0"	9.940	9.305	0.4	126.9	4.6	-1.42	239.74	4.43	255.8	Cap
24 Sep 2021	20h37m43.11s	-19 21' 29.6"	9.940	9.318	0.4	125.9	4.7	-1.97	240.53	4.20	255.8	Cap
25 Sep 2021	20h37m36.46s	-19 21' 54.8"	9.940	9.331	0.4	124.9	4.7	-2.52	241.31	3.96	255.9	Cap
26 Sep 2021	20h37m30.19s	-19 22' 18.4"	9.940	9.345	0.4	123.9	4.8	-3.08	242.09	3.73	256.0	Cap
27 Sep 2021	20h37m24.30s	-19 22' 40.6"	9.939	9.359	0.4	122.9	4.9	-3.64	242.86	3.49	256.0	Cap
28 Sep 2021	20h37m18.80s	-19 23' 01.3"	9.939	9.373	0.5	121.9	4.9	-4.20	243.64	3.25	256.1	Cap
29 Sep 2021	20h37m13.69s	-19 23' 20.4"	9.939	9.387	0.5	120.9	5.0	-4.76	244.40	3.01	256.2	Cap
30 Sep 2021	20h37m08.97s	-19 23' 38.1"	9.939	9.401	0.5	119.9	5.0	-5.32	245.17	2.76	256.3	Cap
1 Okt 2021	20h37m04.64s	-19 23' 54.3"	9.939	9.416	0.5	118.9	5.1	-5.89	245.93	2.52	256.4	Cap
2 Okt 2021	20h37m00.72s	-19 24' 08.9"	9.938	9.430	0.5	117.9	5.1	-6.46	246.69	2.27	256.6	Cap
3 Okt 2021	20h36m57.19s	-19 24' 22.1"	9.938	9.445	0.5	116.9	5.2	-7.03	247.45	2.02	256.7	Cap
4 Okt 2021	20h36m54.07s	-19 24' 33.7"	9.938	9.460	0.5	115.9	5.2	-7.60	248.20	1.78	257.0	Cap
5 Okt 2021	20h36m51.35s	-19 24' 43.7"	9.938	9.475	0.5	114.9	5.2	-8.18	248.95	1.52	257.2	Cap
6 Okt 2021	20h36m49.04s	-19 24' 52.3"	9.938	9.490	0.5	113.9	5.3	-8.75	249.70	1.27	257.6	Cap
7 Okt 2021	20h36m47.15s	-19 24' 59.2"	9.937	9.505	0.5	112.9	5.3	-9.33	250.45	1.02	258.2	Cap
8 Okt 2021	20h36m45.66s	-19 25' 04.7"	9.937	9.520	0.5	111.9	5.4	-9.91	251.20	0.77	259.2	Cap
9 Okt 2021	20h36m44.59s	-19 25' 08.5"	9.937	9.536	0.5	111.0	5.4	-10.49	251.94	0.51	261.2	Cap
10 Okt 2021	20h36m43.93s	-19 25' 10.9"	9.937	9.551	0.5	110.0	5.4	-11.07	252.68	0.26	266.9	Cap
11 Okt 2021	20h36m43.69s	-19 25' 11.6"	9.937	9.567	0.5	109.0	5.5	-11.65	253.43	0.05	347.4	Cap
12 Okt 2021	20h36m43.86s	-19 25' 10.8"	9.936	9.583	0.5	108.0	5.5	-12.23	254.17	0.26	63.9	Cap
13 Okt 2021	20h36m44.45s	-19 25' 08.5"	9.936	9.599	0.5	107.0	5.5	-12.82	254.90	0.52	69.5	Cap
14 Okt 2021	20h36m45.45s	-19 25' 04.6"	9.936	9.614	0.5	106.0	5.5	-13.40	255.64	0.77	71.5	Cap
15 Okt 2021	20h36m46.87s	-19 24' 59.1"	9.936	9.630	0.5	105.0	5.6	-13.99	256.38	1.02	72.4	Cap
16 Okt 2021	20h36m48.70s	-19 24' 52.1"	9.936	9.646	0.5	104.0	5.6	-14.57	257.11	1.28	73.0	Cap
17 Okt 2021	20h36m50.94s	-19 24' 43.6"	9.935	9.663	0.5	103.1	5.6	-15.16	257.85	1.53	73.4	Cap
18 Okt 2021	20h36m53.60s	-19 24' 33.5"	9.935	9.679	0.6	102.1	5.6	-15.74	258.59	1.79	73.7	Cap
19 Okt 2021	20h36m56.67s	-19 24' 21.9"	9.935	9.695	0.6	101.1	5.6	-16.33	259.32	2.04	73.9	Cap
20 Okt 2021	20h37m00.16s	-19 24' 08.7"	9.935	9.711	0.6	100.1	5.7	-16.92	260.06	2.29	74.1	Cap
21 Okt 2021	20h37m04.05s	-19 23' 54.0"	9.935	9.728	0.6	99.1	5.7	-17.50	260.79	2.55	74.2	Cap
22 Okt 2021	20h37m08.36s	-19 23' 37.7"	9.934	9.744	0.6	98.2	5.7	-18.09	261.53	2.80	74.3	Cap
23 Okt 2021	20h37m13.07s	-19 23' 20.0"	9.934	9.760	0.6	97.2	5.7	-18.67	262.26	3.05	74.4	Cap

EPHEMERIDE 2021 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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24 Okt 2021	20h37m18.20s	-19 23' 00.7"	9.934	9.777	0.6	96.2	5.7	-19.26	263.00	3.30	74.5	Cap
25 Okt 2021	20h37m23.73s	-19 22' 39.8"	9.934	9.793	0.6	95.2	5.7	-19.85	263.74	3.55	74.6	Cap
26 Okt 2021	20h37m29.67s	-19 22' 17.5"	9.934	9.810	0.6	94.3	5.7	-20.43	264.47	3.80	74.6	Cap
27 Okt 2021	20h37m36.01s	-19 21' 53.6"	9.933	9.826	0.6	93.3	5.7	-21.01	265.21	4.05	74.7	Cap
28 Okt 2021	20h37m42.77s	-19 21' 28.3"	9.933	9.843	0.6	92.3	5.7	-21.60	265.96	4.30	74.7	Cap
29 Okt 2021	20h37m49.92s	-19 21' 01.4"	9.933	9.860	0.6	91.4	5.7	-22.18	266.70	4.55	74.7	Cap
30 Okt 2021	20h37m57.48s	-19 20' 33.0"	9.933	9.876	0.6	90.4	5.7	-22.76	267.44	4.80	74.8	Cap
31 Okt 2021	20h38m05.44s	-19 20' 03.1"	9.933	9.893	0.6	89.4	5.7	-23.34	268.19	5.05	74.8	Cap
1 Nov 2021	20h38m13.80s	-19 19' 31.7"	9.932	9.909	0.6	88.5	5.7	-23.92	268.94	5.29	74.8	Cap
2 Nov 2021	20h38m22.56s	-19 18' 58.8"	9.932	9.926	0.6	87.5	5.7	-24.50	269.69	5.54	74.9	Cap
3 Nov 2021	20h38m31.71s	-19 18' 24.4"	9.932	9.943	0.6	86.5	5.7	-25.08	270.44	5.78	74.9	Cap
4 Nov 2021	20h38m41.27s	-19 17' 48.5"	9.932	9.959	0.6	85.6	5.7	-25.65	271.20	6.02	74.9	Cap
5 Nov 2021	20h38m51.21s	-19 17' 11.1"	9.932	9.976	0.6	84.6	5.7	-26.23	271.96	6.26	74.9	Cap
6 Nov 2021	20h39m01.55s	-19 16' 32.2"	9.931	9.992	0.6	83.6	5.7	-26.80	272.72	6.50	74.9	Cap
7 Nov 2021	20h39m12.27s	-19 15' 51.9"	9.931	10.009	0.6	82.7	5.7	-27.37	273.48	6.74	74.9	Cap
8 Nov 2021	20h39m23.38s	-19 15' 10.1"	9.931	10.025	0.6	81.7	5.7	-27.94	274.25	6.98	74.9	Cap
9 Nov 2021	20h39m34.87s	-19 14' 26.8"	9.931	10.041	0.6	80.8	5.7	-28.50	275.02	7.21	74.9	Cap
10 Nov 2021	20h39m46.73s	-19 13' 42.1"	9.931	10.058	0.6	79.8	5.6	-29.07	275.80	7.45	74.9	Cap
11 Nov 2021	20h39m58.98s	-19 12' 55.9"	9.930	10.074	0.6	78.9	5.6	-29.63	276.58	7.68	74.9	Cap
12 Nov 2021	20h40m11.59s	-19 12' 08.3"	9.930	10.090	0.7	77.9	5.6	-30.19	277.37	7.91	74.9	Cap
13 Nov 2021	20h40m24.57s	-19 11' 19.3"	9.930	10.107	0.7	77.0	5.6	-30.75	278.16	8.13	74.9	Cap
14 Nov 2021	20h40m37.92s	-19 10' 28.8"	9.930	10.123	0.7	76.0	5.5	-31.31	278.95	8.36	74.9	Cap
15 Nov 2021	20h40m51.63s	-19 09' 37.0"	9.930	10.139	0.7	75.0	5.5	-31.86	279.75	8.58	74.9	Cap
16 Nov 2021	20h41m05.69s	-19 08' 43.7"	9.929	10.155	0.7	74.1	5.5	-32.41	280.55	8.80	74.9	Cap
17 Nov 2021	20h41m20.11s	-19 07' 49.1"	9.929	10.171	0.7	73.1	5.5	-32.96	281.36	9.02	74.9	Cap
18 Nov 2021	20h41m34.88s	-19 06' 53.1"	9.929	10.186	0.7	72.2	5.4	-33.51	282.18	9.23	74.9	Cap
19 Nov 2021	20h41m49.99s	-19 05' 55.7"	9.929	10.202	0.7	71.3	5.4	-34.05	283.00	9.45	74.9	Cap
20 Nov 2021	20h42m05.45s	-19 04' 56.9"	9.929	10.218	0.7	70.3	5.4	-34.59	283.83	9.66	74.9	Cap
21 Nov 2021	20h42m21.25s	-19 03' 56.8"	9.928	10.233	0.7	69.4	5.3	-35.13	284.66	9.87	74.9	Cap
22 Nov 2021	20h42m37.39s	-19 02' 55.4"	9.928	10.249	0.7	68.4	5.3	-35.66	285.50	10.07	74.9	Cap
23 Nov 2021	20h42m53.86s	-19 01' 52.6"	9.928	10.264	0.7	67.5	5.3	-36.19	286.35	10.28	74.9	Cap
24 Nov 2021	20h43m10.65s	-19 00' 48.5"	9.928	10.279	0.7	66.5	5.2	-36.72	287.21	10.48	74.9	Cap
25 Nov 2021	20h43m27.78s	-18 59' 43.1"	9.928	10.295	0.7	65.6	5.2	-37.24	288.07	10.69	74.9	Cap
26 Nov 2021	20h43m45.23s	-18 58' 36.3"	9.927	10.310	0.7	64.7	5.2	-37.76	288.94	10.89	74.9	Cap
27 Nov 2021	20h44m02.99s	-18 57' 28.3"	9.927	10.325	0.7	63.7	5.1	-38.27	289.82	11.08	74.9	Cap
28 Nov 2021	20h44m21.08s	-18 56' 19.0"	9.927	10.339	0.7	62.8	5.1	-38.78	290.71	11.28	74.9	Cap
29 Nov 2021	20h44m39.47s	-18 55' 08.3"	9.927	10.354	0.7	61.8	5.0	-39.29	291.60	11.47	74.8	Cap
30 Nov 2021	20h44m58.17s	-18 53' 56.4"	9.926	10.369	0.7	60.9	5.0	-39.79	292.50	11.66	74.8	Cap
1 Dez 2021	20h45m17.18s	-18 52' 43.3"	9.926	10.383	0.7	60.0	4.9	-40.29	293.42	11.85	74.8	Cap
2 Dez 2021	20h45m36.49s	-18 51' 28.9"	9.926	10.397	0.7	59.0	4.9	-40.79	294.34	12.04	74.8	Cap
3 Dez 2021	20h45m56.10s	-18 50' 13.2"	9.926	10.411	0.7	58.1	4.8	-41.28	295.27	12.22	74.8	Cap
4 Dez 2021	20h46m16.00s	-18 48' 56.3"	9.926	10.425	0.7	57.2	4.8	-41.76	296.21	12.40	74.8	Cap
5 Dez 2021	20h46m36.18s	-18 47' 38.2"	9.925	10.439	0.7	56.2	4.7	-42.24	297.16	12.58	74.8	Cap
6 Dez 2021	20h46m56.65s	-18 46' 18.9"	9.925	10.453	0.7	55.3	4.7	-42.71	298.13	12.76	74.7	Cap
7 Dez 2021	20h47m17.40s	-18 44' 58.3"	9.925	10.467	0.7	54.4	4.6	-43.18	299.10	12.93	74.7	Cap
8 Dez 2021	20h47m38.42s	-18 43' 36.6"	9.925	10.480	0.7	53.4	4.6	-43.64	300.08	13.10	74.7	Cap
9 Dez 2021	20h47m59.71s	-18 42' 13.7"	9.925	10.493	0.7	52.5	4.5	-44.10	301.08	13.27	74.7	Cap
10 Dez 2021	20h48m21.27s	-18 40' 49.6"	9.924	10.506	0.7	51.6	4.5	-44.55	302.08	13.43	74.7	Cap
11 Dez 2021	20h48m43.08s	-18 39' 24.4"	9.924	10.519	0.7	50.7	4.4	-45.00	303.10	13.59	74.7	Cap
12 Dez 2021	20h49m05.14s	-18 37' 58.1"	9.924	10.532	0.7	49.7	4.3	-45.43	304.13	13.75	74.6	Cap
13 Dez 2021	20h49m27.46s	-18 36' 30.7"	9.924	10.544	0.7	48.8	4.3	-45.87	305.17	13.91	74.6	Cap
14 Dez 2021	20h49m50.02s	-18 35' 02.1"	9.924	10.557	0.7	47.9	4.2	-46.29	306.23	14.06	74.6	Cap
15 Dez 2021	20h50m12.81s	-18 33' 32.5"	9.923	10.569	0.7	47.0	4.2	-46.71	307.29	14.21	74.6	Cap
16 Dez 2021	20h50m35.84s	-18 32' 01.8"	9.923	10.581	0.7	46.0	4.1	-47.12	308.37	14.36	74.6	Cap
17 Dez 2021	20h50m59.11s	-18 30' 30.0"	9.923	10.593	0.7	45.1	4.0	-47.53	309.46	14.50	74.5	Cap
18 Dez 2021	20h51m22.59s	-18 28' 57.2"	9.923	10.605	0.7	44.2	4.0	-47.92	310.57	14.64	74.5	Cap
19 Dez 2021	20h51m46.30s	-18 27' 23.3"	9.923	10.616	0.7	43.3	3.9	-48.31	311.69	14.78	74.5	Cap
20 Dez 2021	20h52m10.23s	-18 25' 48.5"	9.922	10.627	0.7	42.4	3.8	-48.69	312.82	14.92	74.5	Cap
21 Dez 2021	20h52m34.37s	-18 24' 12.6"	9.922	10.638	0.7	41.4	3.8	-49.07	313.97	15.05	74.5	Cap
22 Dez 2021	20h52m58.71s	-18 22' 35.7"	9.922	10.649	0.7	40.5	3.7	-49.43	315.13	15.18	74.4	Cap
23 Dez 2021	20h53m23.26s	-18 20' 57.9"	9.922	10.660	0.7	39.6	3.6	-49.79	316.30	15.31	74.4	Cap
24 Dez 2021	20h53m48.01s	-18 19' 19.0"	9.922	10.670	0.7	38.7	3.6	-50.13	317.49	15.44	74.4	Cap
25 Dez 2021	20h54m12.96s	-18 17' 39.3"	9.921	10.680	0.7	37.8	3.5	-50.47	318.69	15.56	74.4	Cap
26 Dez 2021	20h54m38.09s	-18 15' 58.5"	9.921	10.690	0.7	36.9	3.4	-50.80	319.90	15.68	74.4	Cap
27 Dez 2021	20h55m03.41s	-18 14' 16.9"	9.921	10.700	0.7	35.9	3.3	-51.12	321.13	15.80	74.3	Cap
28 Dez 2021	20h55m28.92s	-18 12' 34.3"	9.921	10.710	0.7	35.0	3.3	-51.43	322.37	15.92	74.3	Cap
29 Dez 2021	20h55m54.60s	-18 10' 50.9"	9.920	10.719	0.7	34.1	3.2	-51.73	323.63	16.03	74.3	Cap
30 Dez 2021	20h56m20.45s	-18 09' 06.5"	9.920	10.728	0.7	33.2	3.1	-52.02	324.89	16.14	74.3	Cap
31 Dez 2021	20h56m46.48s	-18 07' 21.3"	9.920	10.737	0.7	32.3	3.0	-52.30	326.18	16.25	74.2	Cap
1 Jan 2022	20h57m12.66s	-18 05' 35.2"	9.920	10.746	0.7	31.4	3.0	-52.57	327.48	16.35	74.2	Cap