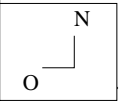


1	●	5	●
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Die Bahn des Planeten Saturn 2022

Cap

EPHEMERIDE 2022 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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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
2 Jan 2022	20h57m39.01s	-18 03' 48.3"	9.920	10.755	0.7	30.5	2.9	-52.82	328.79	16.45	74.2	Cap
3 Jan 2022	20h58m05.50s	-18 02' 00.6"	9.919	10.763	0.7	29.6	2.8	-53.07	330.11	16.55	74.2	Cap
4 Jan 2022	20h58m32.15s	-18 00' 12.0"	9.919	10.771	0.7	28.7	2.7	-53.30	331.45	16.65	74.1	Cap
5 Jan 2022	20h58m58.93s	-17 58' 22.7"	9.919	10.779	0.7	27.7	2.6	-53.53	332.79	16.74	74.1	Cap
6 Jan 2022	20h59m25.86s	-17 56' 32.6"	9.919	10.786	0.7	26.8	2.6	-53.74	334.15	16.82	74.1	Cap
7 Jan 2022	20h59m52.91s	-17 54' 41.8"	9.919	10.794	0.7	25.9	2.5	-53.94	335.52	16.91	74.1	Cap
8 Jan 2022	21h00m20.10s	-17 52' 50.2"	9.918	10.801	0.7	25.0	2.4	-54.12	336.90	16.99	74.1	Cap
9 Jan 2022	21h00m47.40s	-17 50' 57.9"	9.918	10.808	0.7	24.1	2.3	-54.30	338.29	17.07	74.0	Cap
10 Jan 2022	21h01m14.82s	-17 49' 04.9"	9.918	10.814	0.7	23.2	2.2	-54.46	339.68	17.14	74.0	Cap
11 Jan 2022	21h01m42.35s	-17 47' 11.3"	9.918	10.821	0.7	22.3	2.2	-54.61	341.09	17.22	74.0	Cap
12 Jan 2022	21h02m09.99s	-17 45' 17.0"	9.918	10.827	0.7	21.4	2.1	-54.75	342.51	17.29	74.0	Cap
13 Jan 2022	21h02m37.72s	-17 43' 22.0"	9.917	10.833	0.7	20.5	2.0	-54.87	343.93	17.35	73.9	Cap
14 Jan 2022	21h03m05.56s	-17 41' 26.5"	9.917	10.838	0.7	19.6	1.9	-54.98	345.36	17.42	73.9	Cap
15 Jan 2022	21h03m33.49s	-17 39' 30.3"	9.917	10.844	0.7	18.7	1.8	-55.08	346.80	17.48	73.9	Cap
16 Jan 2022	21h04m01.50s	-17 37' 33.6"	9.917	10.849	0.7	17.8	1.7	-55.16	348.24	17.54	73.9	Cap
17 Jan 2022	21h04m29.60s	-17 35' 36.3"	9.917	10.854	0.7	16.9	1.7	-55.23	349.69	17.59	73.8	Cap
18 Jan 2022	21h04m57.78s	-17 33' 38.5"	9.916	10.858	0.7	16.0	1.6	-55.29	351.14	17.64	73.8	Cap
19 Jan 2022	21h05m26.03s	-17 31' 40.1"	9.916	10.863	0.7	15.1	1.5	-55.33	352.59	17.69	73.8	Cap
20 Jan 2022	21h05m54.35s	-17 29' 41.2"	9.916	10.867	0.7	14.2	1.4	-55.36	354.05	17.74	73.8	Cap
21 Jan 2022	21h06m22.74s	-17 27' 41.8"	9.916	10.871	0.7	13.3	1.3	-55.37	355.51	17.79	73.7	Cap
22 Jan 2022	21h06m51.19s	-17 25' 42.0"	9.915	10.874	0.7	12.4	1.2	-55.38	356.97	17.83	73.7	Cap
23 Jan 2022	21h07m19.69s	-17 23' 41.7"	9.915	10.878	0.7	11.5	1.1	-55.36	358.42	17.87	73.7	Cap
24 Jan 2022	21h07m48.25s	-17 21' 40.9"	9.915	10.881	0.7	10.6	1.0	-55.34	359.88	17.90	73.7	Cap
25 Jan 2022	21h08m16.86s	-17 19' 39.7"	9.915	10.884	0.7	9.7	1.0	-55.30	1.33	17.94	73.6	Cap
26 Jan 2022	21h08m45.51s	-17 17' 38.2"	9.915	10.886	0.7	8.8	0.9	-55.24	2.78	17.97	73.6	Cap
27 Jan 2022	21h09m14.20s	-17 15' 36.2"	9.914	10.889	0.7	7.9	0.8	-55.18	4.23	18.00	73.6	Cap
28 Jan 2022	21h09m42.92s	-17 13' 33.9"	9.914	10.891	0.7	7.0	0.7	-55.10	5.67	18.02	73.6	Cap
29 Jan 2022	21h10m11.68s	-17 11' 31.2"	9.914	10.893	0.7	6.1	0.6	-55.00	7.11	18.04	73.5	Cap
30 Jan 2022	21h10m40.46s	-17 09' 28.2"	9.914	10.894	0.7	5.3	0.5	-54.90	8.54	18.06	73.5	Cap
31 Jan 2022	21h11m09.25s	-17 07' 24.9"	9.914	10.896	0.7	4.4	0.4	-54.78	9.96	18.08	73.5	Cap
1 Feb 2022	21h11m38.07s	-17 05' 21.3"	9.913	10.897	0.7	3.5	0.3	-54.64	11.38	18.09	73.5	Cap
2 Feb 2022	21h12m06.89s	-17 03' 17.5"	9.913	10.897	0.7	2.6	0.3	-54.50	12.79	18.10	73.5	Cap
3 Feb 2022	21h12m35.71s	-17 01' 13.4"	9.913	10.898	0.7	1.8	0.2	-54.34	14.18	18.10	73.4	Cap
4 Feb 2022	21h13m04.54s	-16 59' 09.1"	9.913	10.898	0.7	1.1	0.1	-54.17	15.57	18.11	73.4	Cap
5 Feb 2022	21h13m33.36s	-16 57' 04.7"	9.912	10.898	0.7	0.9	0.1	-53.98	16.95	18.11	73.4	Cap
6 Feb 2022	21h14m02.17s	-16 55' 00.0"	9.912	10.898	0.7	1.4	0.1	-53.79	18.32	18.10	73.4	Cap
7 Feb 2022	21h14m30.96s	-16 52' 55.3"	9.912	10.898	0.7	2.1	0.2	-53.58	19.67	18.10	73.3	Cap
8 Feb 2022	21h14m59.73s	-16 50' 50.4"	9.912	10.897	0.7	3.0	0.3	-53.36	21.02	18.09	73.3	Cap
9 Feb 2022	21h15m28.48s	-16 48' 45.4"	9.912	10.896	0.7	3.9	0.4	-53.13	22.35	18.07	73.3	Cap
10 Feb 2022	21h15m57.19s	-16 46' 40.4"	9.911	10.894	0.7	4.7	0.5	-52.89	23.67	18.06	73.3	Cap
11 Feb 2022	21h16m25.87s	-16 44' 35.3"	9.911	10.893	0.7	5.6	0.6	-52.63	24.98	18.04	73.3	Cap
12 Feb 2022	21h16m54.52s	-16 42' 30.1"	9.911	10.891	0.7	6.5	0.6	-52.37	26.27	18.02	73.2	Cap
13 Feb 2022	21h17m23.12s	-16 40' 25.0"	9.911	10.889	0.7	7.4	0.7	-52.09	27.55	18.00	73.2	Cap
14 Feb 2022	21h17m51.68s	-16 38' 19.9"	9.911	10.887	0.7	8.3	0.8	-51.81	28.82	17.97	73.2	Cap
15 Feb 2022	21h18m20.18s	-16 36' 14.8"	9.910	10.884	0.7	9.1	0.9	-51.51	30.07	17.94	73.2	Cap
16 Feb 2022	21h18m48.63s	-16 34' 09.7"	9.910	10.881	0.7	10.0	1.0	-51.21	31.31	17.91	73.2	Cap
17 Feb 2022	21h19m17.02s	-16 32' 04.8"	9.910	10.878	0.7	10.9	1.1	-50.89	32.54	17.87	73.1	Cap
18 Feb 2022	21h19m45.35s	-16 29' 59.9"	9.910	10.875	0.7	11.8	1.2	-50.57	33.75	17.84	73.1	Cap
19 Feb 2022	21h20m13.61s	-16 27' 55.2"	9.909	10.871	0.7	12.7	1.3	-50.23	34.95	17.80	73.1	Cap
20 Feb 2022	21h20m41.80s	-16 25' 50.6"	9.909	10.868	0.7	13.6	1.3	-49.89	36.13	17.76	73.1	Cap
21 Feb 2022	21h21m09.91s	-16 23' 46.1"	9.909	10.863	0.7	14.5	1.4	-49.54	37.30	17.71	73.1	Cap
22 Feb 2022	21h21m37.95s	-16 21' 41.9"	9.909	10.859	0.7	15.4	1.5	-49.18	38.45	17.67	73.0	Cap
23 Feb 2022	21h22m05.90s	-16 19' 37.8"	9.909	10.855	0.8	16.3	1.6	-48.81	39.60	17.62	73.0	Cap
24 Feb 2022	21h22m33.76s	-16 17' 34.0"	9.908	10.850	0.8	17.1	1.7	-48.43	40.72	17.56	73.0	Cap
25 Feb 2022	21h23m01.53s	-16 15' 30.4"	9.908	10.845	0.8	18.0	1.8	-48.04	41.84	17.51	73.0	Cap
26 Feb 2022	21h23m29.21s	-16 13' 27.1"	9.908	10.839	0.8	18.9	1.9	-47.65	42.94	17.45	73.0	Cap
27 Feb 2022	21h23m56.78s	-16 11' 24.1"	9.908	10.834	0.8	19.8	1.9	-47.25	44.03	17.39	73.0	Cap
28 Feb 2022	21h24m24.25s	-16 09' 21.4"	9.908	10.828	0.8	20.7	2.0	-46.84	45.10	17.32	72.9	Cap
1 Mar 2022	21h24m51.61s	-16 07' 19.1"	9.907	10.822	0.8	21.6	2.1	-46.43	46.16	17.25	72.9	Cap
2 Mar 2022	21h25m18.85s	-16 05' 17.1"	9.907	10.816	0.8	22.5	2.2	-46.01	47.21	17.18	72.9	Cap
3 Mar 2022	21h25m45.97s	-16 03' 15.5"	9.907	10.809	0.8	23.4	2.3	-45.58	48.25	17.11	72.9	Cap
4 Mar 2022	21h26m12.96s	-16 01' 14.4"	9.907	10.802	0.8	24.3	2.4	-45.14	49.27	17.03	72.9	Cap
5 Mar 2022	21h26m39.83s	-15 59' 13.7"	9.906	10.795	0.8	25.1	2.4	-44.70	50.28	16.95	72.9	Cap
6 Mar 2022	21h27m06.56s	-15 57' 13.5"	9.906	10.788	0.8	26.0	2.5	-44.26	51.28	16.87	72.9	Cap
7 Mar 2022	21h27m33.15s	-15 55' 13.8"	9.906	10.780	0.8	26.9	2.6	-43.80	52.27	16.78	72.8	Cap
8 Mar 2022	21h27m59.60s	-15 53' 14.6"	9.906	10.773	0.8	27.8	2.7	-43.35	53.25	16.69	72.8	Cap
9 Mar 2022	21h28m25.91s	-15 51' 16.0"	9.906	10.765	0.8	28.7	2.8	-42.88	54.21	16.60	72.8	Cap
10 Mar 2022	21h28m52.06s	-15 49' 17.9"	9.905	10.757	0.8	29.6	2.8	-42.41	55.17	16.51	72.8	Cap
11 Mar 2022	21h29m18.06s	-15 47' 20.5"	9.905	10.748	0.8	30.5	2.9	-41.94	56.11	16.41	72.8	Cap
12 Mar 2022	21h29m43.90s	-15 45' 23.7"	9.905	10.740	0.8	31.4	3.0	-41.46	57.05	16.31	72.8	Cap
13 Mar 2022	21h30m09.57s	-15 43' 27.5"	9.905	10.731	0.8	32.3	3.1	-40.98	57.97	16.21	72.8	Cap
14 Mar 2022	21h30m35.08s	-15 41' 32.0"	9.904	10.722	0.8	33.2	3.1	-40.49	58.88	16.10	72.8	Cap
15 Mar 2022	21h31m00.42s	-15 39' 37.1"	9.904	10.713	0.8	34.0	3.2	-39.99	59.79	16.00	72.8	Cap

EPHEMERIDE 2022 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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16 Mar 2022	21h31m25.59s	-15 37' 43.0"	9.904	10.703	0.8	34.9	3.3	-39.49	60.68	15.89	72.8	Cap
17 Mar 2022	21h31m50.57s	-15 35' 49.7"	9.904	10.693	0.8	35.8	3.4	-38.99	61.57	15.78	72.7	Cap
18 Mar 2022	21h32m15.38s	-15 33' 57.0"	9.904	10.683	0.8	36.7	3.4	-38.49	62.44	15.66	72.7	Cap
19 Mar 2022	21h32m40.00s	-15 32' 05.2"	9.903	10.673	0.8	37.6	3.5	-37.98	63.31	15.55	72.7	Cap
20 Mar 2022	21h33m04.44s	-15 30' 14.2"	9.903	10.663	0.8	38.5	3.6	-37.46	64.17	15.43	72.7	Cap
21 Mar 2022	21h33m28.68s	-15 28' 24.0"	9.903	10.653	0.8	39.4	3.7	-36.94	65.02	15.31	72.7	Cap
22 Mar 2022	21h33m52.73s	-15 26' 34.6"	9.903	10.642	0.8	40.3	3.7	-36.42	65.87	15.18	72.7	Cap
23 Mar 2022	21h34m16.58s	-15 24' 46.1"	9.903	10.631	0.8	41.2	3.8	-35.90	66.70	15.06	72.7	Cap
24 Mar 2022	21h34m40.22s	-15 22' 58.5"	9.902	10.620	0.8	42.1	3.9	-35.37	67.53	14.93	72.7	Cap
25 Mar 2022	21h35m03.66s	-15 21' 11.8"	9.902	10.609	0.8	43.0	3.9	-34.84	68.36	14.80	72.7	Cap
26 Mar 2022	21h35m26.89s	-15 19' 26.1"	9.902	10.597	0.9	43.8	4.0	-34.30	69.17	14.66	72.7	Cap
27 Mar 2022	21h35m49.90s	-15 17' 41.3"	9.902	10.585	0.9	44.7	4.1	-33.77	69.98	14.52	72.7	Cap
28 Mar 2022	21h36m12.69s	-15 15' 57.5"	9.901	10.573	0.9	45.6	4.1	-33.23	70.78	14.38	72.7	Cap
29 Mar 2022	21h36m35.26s	-15 14' 14.7"	9.901	10.561	0.9	46.5	4.2	-32.68	71.58	14.24	72.7	Cap
30 Mar 2022	21h36m57.60s	-15 12' 32.9"	9.901	10.549	0.9	47.4	4.3	-32.14	72.37	14.09	72.7	Cap
31 Mar 2022	21h37m19.71s	-15 10' 52.3"	9.901	10.537	0.9	48.3	4.3	-31.59	73.15	13.95	72.7	Cap
1 Apr 2022	21h37m41.58s	-15 09' 12.7"	9.901	10.524	0.9	49.2	4.4	-31.04	73.93	13.79	72.7	Cap
2 Apr 2022	21h38m03.21s	-15 07' 34.2"	9.900	10.512	0.9	50.1	4.4	-30.48	74.71	13.64	72.7	Cap
3 Apr 2022	21h38m24.60s	-15 05' 56.9"	9.900	10.499	0.9	51.0	4.5	-29.93	75.48	13.48	72.8	Cap
4 Apr 2022	21h38m45.73s	-15 04' 20.7"	9.900	10.486	0.9	51.9	4.6	-29.37	76.24	13.32	72.8	Cap
5 Apr 2022	21h39m06.62s	-15 02' 45.8"	9.900	10.472	0.9	52.8	4.6	-28.81	77.00	13.16	72.8	Cap
6 Apr 2022	21h39m27.25s	-15 01' 12.0"	9.899	10.459	0.9	53.7	4.7	-28.25	77.76	13.00	72.8	Cap
7 Apr 2022	21h39m47.62s	-14 59' 39.5"	9.899	10.445	0.9	54.6	4.7	-27.69	78.51	12.83	72.8	Cap
8 Apr 2022	21h40m07.73s	-14 58' 08.2"	9.899	10.432	0.9	55.5	4.8	-27.12	79.26	12.66	72.8	Cap
9 Apr 2022	21h40m27.57s	-14 56' 38.3"	9.899	10.418	0.9	56.4	4.8	-26.55	80.00	12.49	72.8	Cap
10 Apr 2022	21h40m47.15s	-14 55' 09.6"	9.899	10.404	0.9	57.3	4.9	-25.98	80.74	12.32	72.9	Cap
11 Apr 2022	21h41m06.45s	-14 53' 42.2"	9.898	10.390	0.9	58.2	4.9	-25.41	81.48	12.15	72.9	Cap
12 Apr 2022	21h41m25.47s	-14 52' 16.2"	9.898	10.375	0.9	59.1	5.0	-24.84	82.21	11.97	72.9	Cap
13 Apr 2022	21h41m44.22s	-14 50' 51.6"	9.898	10.361	0.9	60.0	5.0	-24.27	82.94	11.79	72.9	Cap
14 Apr 2022	21h42m02.69s	-14 49' 28.3"	9.898	10.347	0.9	60.9	5.1	-23.69	83.67	11.61	72.9	Cap
15 Apr 2022	21h42m20.88s	-14 48' 06.4"	9.897	10.332	0.9	61.8	5.1	-23.12	84.40	11.43	73.0	Cap
16 Apr 2022	21h42m38.77s	-14 46' 46.0"	9.897	10.317	0.9	62.7	5.2	-22.54	85.12	11.24	73.0	Cap
17 Apr 2022	21h42m56.38s	-14 45' 27.0"	9.897	10.302	0.9	63.6	5.2	-21.96	85.84	11.05	73.0	Cap
18 Apr 2022	21h43m13.70s	-14 44' 09.4"	9.897	10.287	0.9	64.5	5.3	-21.39	86.56	10.87	73.1	Cap
19 Apr 2022	21h43m30.72s	-14 42' 53.3"	9.897	10.272	0.9	65.4	5.3	-20.81	87.28	10.68	73.1	Cap
20 Apr 2022	21h43m47.44s	-14 41' 38.7"	9.896	10.257	0.9	66.3	5.3	-20.23	88.00	10.48	73.1	Cap
21 Apr 2022	21h44m03.86s	-14 40' 25.6"	9.896	10.241	0.9	67.2	5.4	-19.64	88.71	10.29	73.2	Cap
22 Apr 2022	21h44m19.98s	-14 39' 14.0"	9.896	10.226	0.9	68.1	5.4	-19.06	89.42	10.09	73.2	Cap
23 Apr 2022	21h44m35.78s	-14 38' 04.0"	9.896	10.211	0.9	69.0	5.4	-18.48	90.13	9.89	73.3	Cap
24 Apr 2022	21h44m51.28s	-14 36' 55.6"	9.895	10.195	0.9	70.0	5.5	-17.90	90.84	9.69	73.3	Cap
25 Apr 2022	21h45m06.46s	-14 35' 48.8"	9.895	10.179	0.9	70.9	5.5	-17.32	91.55	9.48	73.4	Cap
26 Apr 2022	21h45m21.32s	-14 34' 43.5"	9.895	10.163	0.9	71.8	5.5	-16.73	92.26	9.28	73.4	Cap
27 Apr 2022	21h45m35.86s	-14 33' 39.9"	9.895	10.147	0.9	72.7	5.6	-16.15	92.97	9.07	73.5	Cap
28 Apr 2022	21h45m50.07s	-14 32' 38.0"	9.895	10.131	0.9	73.6	5.6	-15.57	93.68	8.86	73.5	Cap
29 Apr 2022	21h46m03.96s	-14 31' 37.7"	9.894	10.115	0.9	74.5	5.6	-14.98	94.39	8.64	73.6	Cap
30 Apr 2022	21h46m17.51s	-14 30' 39.2"	9.894	10.099	0.9	75.4	5.7	-14.40	95.10	8.43	73.7	Cap
1 Mai 2022	21h46m30.73s	-14 29' 42.3"	9.894	10.083	0.9	76.4	5.7	-13.81	95.81	8.21	73.8	Cap
2 Mai 2022	21h46m43.61s	-14 28' 47.2"	9.894	10.067	0.9	77.3	5.7	-13.23	96.52	7.99	73.8	Cap
3 Mai 2022	21h46m56.15s	-14 27' 53.9"	9.893	10.050	0.9	78.2	5.7	-12.65	97.23	7.77	73.9	Cap
4 Mai 2022	21h47m08.35s	-14 27' 02.3"	9.893	10.034	0.8	79.1	5.7	-12.07	97.94	7.55	74.0	Cap
5 Mai 2022	21h47m20.20s	-14 26' 12.4"	9.893	10.018	0.8	80.0	5.8	-11.48	98.65	7.33	74.1	Cap
6 Mai 2022	21h47m31.71s	-14 25' 24.4"	9.893	10.001	0.8	80.9	5.8	-10.90	99.36	7.10	74.3	Cap
7 Mai 2022	21h47m42.86s	-14 24' 38.2"	9.893	9.985	0.8	81.9	5.8	-10.32	100.07	6.88	74.4	Cap
8 Mai 2022	21h47m53.67s	-14 23' 53.8"	9.892	9.968	0.8	82.8	5.8	-9.74	100.79	6.65	74.5	Cap
9 Mai 2022	21h48m04.13s	-14 23' 11.2"	9.892	9.952	0.8	83.7	5.8	-9.16	101.50	6.42	74.6	Cap
10 Mai 2022	21h48m14.23s	-14 22' 30.5"	9.892	9.935	0.8	84.6	5.8	-8.58	102.22	6.19	74.8	Cap
11 Mai 2022	21h48m23.97s	-14 21' 51.6"	9.892	9.918	0.8	85.6	5.8	-8.01	102.94	5.96	75.0	Cap
12 Mai 2022	21h48m33.36s	-14 21' 14.6"	9.891	9.902	0.8	86.5	5.8	-7.43	103.66	5.73	75.2	Cap
13 Mai 2022	21h48m42.38s	-14 20' 39.5"	9.891	9.885	0.8	87.4	5.9	-6.86	104.38	5.49	75.4	Cap
14 Mai 2022	21h48m51.05s	-14 20' 06.2"	9.891	9.868	0.8	88.3	5.9	-6.28	105.10	5.26	75.6	Cap
15 Mai 2022	21h48m59.35s	-14 19' 34.8"	9.891	9.852	0.8	89.3	5.9	-5.71	105.83	5.03	75.8	Cap
16 Mai 2022	21h49m07.29s	-14 19' 05.4"	9.891	9.835	0.8	90.2	5.9	-5.14	106.56	4.79	76.1	Cap
17 Mai 2022	21h49m14.87s	-14 18' 37.8"	9.890	9.818	0.8	91.1	5.9	-4.57	107.29	4.55	76.4	Cap
18 Mai 2022	21h49m22.08s	-14 18' 12.1"	9.890	9.802	0.8	92.1	5.9	-4.00	108.03	4.32	76.7	Cap
19 Mai 2022	21h49m28.92s	-14 17' 48.4"	9.890	9.785	0.8	93.0	5.9	-3.44	108.76	4.08	77.1	Cap
20 Mai 2022	21h49m35.39s	-14 17' 26.6"	9.890	9.768	0.8	93.9	5.9	-2.88	109.50	3.84	77.5	Cap
21 Mai 2022	21h49m41.48s	-14 17' 06.7"	9.889	9.752	0.8	94.9	5.9	-2.31	110.25	3.60	77.9	Cap
22 Mai 2022	21h49m47.21s	-14 16' 48.8"	9.889	9.735	0.8	95.8	5.8	-1.76	111.00	3.36	78.5	Cap
23 Mai 2022	21h49m52.56s	-14 16' 32.8"	9.889	9.719	0.8	96.8	5.8	-1.20	111.75	3.12	79.1	Cap
24 Mai 2022	21h49m57.53s	-14 16' 18.9"	9.889	9.702	0.8	97.7	5.8	-0.64	112.50	2.87	79.8	Cap
25 Mai 2022	21h50m02.12s	-14 16' 06.8"	9.888	9.685	0.8	98.6	5.8	-0.09	113.26	2.63	80.7	Cap
26 Mai 2022	21h50m06.33s	-14 15' 56.8"	9.888	9.669	0.8	99.6	5.8	0.46	114.02	2.39	81.7	Cap
27 Mai 2022	21h50m10.16s	-14 15' 48.8"	9.888	9.653	0.8	100.5	5.8	1.00	114.78	2.15	83.0	Cap
28 Mai 2022	21h50m13.61s	-14 15' 42.7"	9.888	9.636	0.8	101.5	5.8	1.55	115.55	1.91	84.7	Cap

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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29 Mai 2022	21h50m16.68s	-14 15' 38.6"	9.888	9.620	0.8	102.4	5.7	2.09	116.33	1.67	86.7	Cap
30 Mai 2022	21h50m19.36s	-14 15' 36.6"	9.887	9.604	0.8	103.4	5.7	2.62	117.10	1.43	89.5	Cap
31 Mai 2022	21h50m21.66s	-14 15' 36.5"	9.887	9.587	0.8	104.3	5.7	3.16	117.89	1.19	93.4	Cap
1 Jun 2022	21h50m23.57s	-14 15' 38.5"	9.887	9.571	0.8	105.3	5.7	3.69	118.67	0.97	99.2	Cap
2 Jun 2022	21h50m25.11s	-14 15' 42.4"	9.887	9.555	0.7	106.2	5.7	4.21	119.47	0.76	108.2	Cap
3 Jun 2022	21h50m26.25s	-14 15' 48.3"	9.886	9.539	0.7	107.2	5.6	4.74	120.26	0.58	123.2	Cap
4 Jun 2022	21h50m27.02s	-14 15' 56.2"	9.886	9.523	0.7	108.1	5.6	5.26	121.06	0.48	147.7	Cap
5 Jun 2022	21h50m27.40s	-14 16' 06.1"	9.886	9.507	0.7	109.1	5.6	5.77	121.87	0.49	177.6	Cap
6 Jun 2022	21h50m27.40s	-14 16' 18.0"	9.886	9.492	0.7	110.1	5.5	6.28	122.68	0.61	200.6	Cap
7 Jun 2022	21h50m27.01s	-14 16' 31.9"	9.886	9.476	0.7	111.0	5.5	6.79	123.50	0.79	214.5	Cap
8 Jun 2022	21h50m26.25s	-14 16' 47.7"	9.885	9.461	0.7	112.0	5.5	7.29	124.32	1.00	222.9	Cap
9 Jun 2022	21h50m25.11s	-14 17' 05.5"	9.885	9.445	0.7	112.9	5.4	7.79	125.15	1.22	228.3	Cap
10 Jun 2022	21h50m23.59s	-14 17' 25.2"	9.885	9.430	0.7	113.9	5.4	8.28	125.99	1.45	232.0	Cap
11 Jun 2022	21h50m21.69s	-14 17' 46.9"	9.885	9.415	0.7	114.9	5.3	8.77	126.83	1.68	234.6	Cap
12 Jun 2022	21h50m19.42s	-14 18' 10.5"	9.884	9.400	0.7	115.8	5.3	9.25	127.67	1.91	236.7	Cap
13 Jun 2022	21h50m16.78s	-14 18' 36.0"	9.884	9.385	0.7	116.8	5.3	9.73	128.52	2.15	238.2	Cap
14 Jun 2022	21h50m13.76s	-14 19' 03.4"	9.884	9.370	0.7	117.8	5.2	10.20	129.38	2.38	239.5	Cap
15 Jun 2022	21h50m10.73s	-14 19' 32.7"	9.884	9.355	0.7	118.7	5.2	10.67	130.24	2.62	240.5	Cap
16 Jun 2022	21h50m06.62s	-14 20' 03.8"	9.883	9.341	0.7	119.7	5.1	11.13	131.11	2.85	241.4	Cap
17 Jun 2022	21h50m02.49s	-14 20' 36.9"	9.883	9.326	0.7	120.7	5.1	11.58	131.99	3.09	242.2	Cap
18 Jun 2022	21h49m58.00s	-14 21' 11.8"	9.883	9.312	0.7	121.7	5.0	12.03	132.87	3.32	242.8	Cap
19 Jun 2022	21h49m53.14s	-14 21' 48.5"	9.883	9.298	0.7	122.6	5.0	12.47	133.76	3.55	243.3	Cap
20 Jun 2022	21h49m47.91s	-14 22' 27.1"	9.883	9.284	0.6	123.6	4.9	12.91	134.66	3.79	243.8	Cap
21 Jun 2022	21h49m42.33s	-14 23' 07.5"	9.882	9.270	0.6	124.6	4.9	13.34	135.56	4.02	244.2	Cap
22 Jun 2022	21h49m36.38s	-14 23' 49.7"	9.882	9.256	0.6	125.6	4.8	13.76	136.47	4.25	244.6	Cap
23 Jun 2022	21h49m30.07s	-14 24' 33.7"	9.882	9.243	0.6	126.6	4.7	14.18	137.38	4.48	245.0	Cap
24 Jun 2022	21h49m23.41s	-14 25' 19.5"	9.882	9.229	0.6	127.5	4.7	14.58	138.31	4.70	245.3	Cap
25 Jun 2022	21h49m16.40s	-14 26' 07.0"	9.881	9.216	0.6	128.5	4.6	14.98	139.24	4.93	245.6	Cap
26 Jun 2022	21h49m09.03s	-14 26' 56.3"	9.881	9.203	0.6	129.5	4.6	15.38	140.17	5.15	245.8	Cap
27 Jun 2022	21h49m01.32s	-14 27' 47.2"	9.881	9.191	0.6	130.5	4.5	15.76	141.11	5.37	246.1	Cap
28 Jun 2022	21h48m53.26s	-14 28' 39.9"	9.881	9.178	0.6	131.5	4.4	16.14	142.06	5.59	246.3	Cap
29 Jun 2022	21h48m44.87s	-14 29' 34.2"	9.880	9.165	0.6	132.5	4.4	16.51	143.02	5.80	246.5	Cap
30 Jun 2022	21h48m36.14s	-14 30' 30.2"	9.880	9.153	0.6	133.5	4.3	16.87	143.98	6.02	246.7	Cap
1 Jul 2022	21h48m27.07s	-14 31' 27.8"	9.880	9.141	0.6	134.5	4.2	17.22	144.95	6.23	246.8	Cap
2 Jul 2022	21h48m17.68s	-14 32' 26.9"	9.880	9.129	0.6	135.5	4.1	17.56	145.93	6.44	247.0	Cap
3 Jul 2022	21h48m07.97s	-14 33' 27.7"	9.880	9.118	0.6	136.4	4.1	17.90	146.91	6.64	247.1	Cap
4 Jul 2022	21h47m57.94s	-14 34' 29.9"	9.879	9.106	0.6	137.4	4.0	18.22	147.90	6.84	247.3	Cap
5 Jul 2022	21h47m47.59s	-14 35' 33.6"	9.879	9.095	0.5	138.4	3.9	18.54	148.89	7.04	247.4	Cap
6 Jul 2022	21h47m36.94s	-14 36' 38.8"	9.879	9.084	0.5	139.4	3.8	18.84	149.90	7.23	247.5	Cap
7 Jul 2022	21h47m25.98s	-14 37' 45.5"	9.879	9.073	0.5	140.4	3.8	19.14	150.90	7.42	247.7	Cap
8 Jul 2022	21h47m14.73s	-14 38' 53.5"	9.878	9.063	0.5	141.4	3.7	19.43	151.92	7.61	247.8	Cap
9 Jul 2022	21h47m03.19s	-14 40' 02.9"	9.878	9.053	0.5	142.4	3.6	19.70	152.94	7.79	247.9	Cap
10 Jul 2022	21h46m51.35s	-14 41' 13.6"	9.878	9.043	0.5	143.5	3.5	19.97	153.97	7.97	248.0	Cap
11 Jul 2022	21h46m39.24s	-14 42' 25.6"	9.878	9.033	0.5	144.5	3.4	20.22	155.00	8.15	248.1	Cap
12 Jul 2022	21h46m26.86s	-14 43' 38.8"	9.877	9.023	0.5	145.5	3.3	20.47	156.04	8.32	248.2	Cap
13 Jul 2022	21h46m14.20s	-14 44' 53.3"	9.877	9.014	0.5	146.5	3.3	20.70	157.08	8.49	248.3	Cap
14 Jul 2022	21h46m01.28s	-14 46' 09.0"	9.877	9.005	0.5	147.5	3.2	20.93	158.13	8.65	248.4	Cap
15 Jul 2022	21h45m48.10s	-14 47' 25.8"	9.877	8.9959	0.5	148.5	3.1	21.14	159.18	8.81	248.5	Cap
16 Jul 2022	21h45m34.66s	-14 48' 43.7"	9.877	8.9873	0.5	149.5	3.0	21.34	160.24	8.97	248.6	Cap
17 Jul 2022	21h45m20.98s	-14 50' 02.7"	9.876	8.9789	0.5	150.5	2.9	21.53	161.31	9.12	248.6	Cap
18 Jul 2022	21h45m07.06s	-14 51' 22.8"	9.876	8.9708	0.5	151.5	2.8	21.71	162.38	9.27	248.7	Cap
19 Jul 2022	21h44m52.90s	-14 52' 43.9"	9.876	8.9629	0.5	152.5	2.7	21.88	163.45	9.42	248.8	Cap
20 Jul 2022	21h44m38.50s	-14 54' 05.9"	9.876	8.9554	0.4	153.6	2.6	22.03	164.53	9.56	248.9	Cap
21 Jul 2022	21h44m23.89s	-14 55' 28.9"	9.875	8.9480	0.4	154.6	2.5	22.18	165.61	9.70	249.0	Cap
22 Jul 2022	21h44m09.06s	-14 56' 52.8"	9.875	8.9410	0.4	155.6	2.4	22.31	166.69	9.83	249.0	Cap
23 Jul 2022	21h43m54.02s	-14 58' 17.5"	9.875	8.9342	0.4	156.6	2.3	22.43	167.78	9.96	249.1	Cap
24 Jul 2022	21h43m38.78s	-14 59' 43.1"	9.875	8.9277	0.4	157.6	2.2	22.53	168.87	10.08	249.2	Cap
25 Jul 2022	21h43m23.34s	-15 01' 09.4"	9.874	8.9214	0.4	158.6	2.1	22.63	169.97	10.20	249.2	Cap
26 Jul 2022	21h43m07.72s	-15 02' 36.5"	9.874	8.9154	0.4	159.7	2.0	22.71	171.06	10.31	249.3	Cap
27 Jul 2022	21h42m51.92s	-15 04' 04.2"	9.874	8.9098	0.4	160.7	1.9	22.78	172.16	10.42	249.4	Cap
28 Jul 2022	21h42m35.95s	-15 05' 32.6"	9.874	8.9043	0.4	161.7	1.8	22.84	173.26	10.52	249.4	Cap
29 Jul 2022	21h42m19.81s	-15 07' 01.6"	9.873	8.8992	0.4	162.7	1.7	22.89	174.37	10.62	249.5	Cap
30 Jul 2022	21h42m03.52s	-15 08' 31.1"	9.873	8.8944	0.4	163.8	1.6	22.92	175.47	10.71	249.6	Cap
31 Jul 2022	21h41m47.09s	-15 10' 01.1"	9.873	8.8898	0.4	164.8	1.5	22.94	176.57	10.79	249.6	Cap
1 Aug 2022	21h41m30.52s	-15 11' 31.6"	9.873	8.8856	0.4	165.8	1.4	22.95	177.68	10.87	249.7	Cap
2 Aug 2022	21h41m13.82s	-15 13' 02.4"	9.873	8.8816	0.4	166.8	1.3	22.94	178.79	10.94	249.7	Cap
3 Aug 2022	21h40m57.00s	-15 14' 33.6"	9.872	8.8779	0.3	167.8	1.2	22.92	179.89	11.01	249.8	Cap
4 Aug 2022	21h40m40.07s	-15 16' 05.2"	9.872	8.8745	0.3	168.9	1.1	22.89	181.00	11.07	249.9	Cap
5 Aug 2022	21h40m23.05s	-15 17' 36.9"	9.872	8.8714	0.3	169.9	1.0	22.85	182.11	11.13	249.9	Cap
6 Aug 2022	21h40m05.92s	-15 19' 08.9"	9.872	8.8686	0.3	170.9	0.9	22.79	183.21	11.18	250.0	Cap
7 Aug 2022	21h39m48.72s	-15 20' 41.1"	9.871	8.8661	0.3	171.9	0.8	22.72	184.32	11.23	250.0	Cap
8 Aug 2022	21h39m31.44s	-15 22' 13.3"	9.871	8.8639	0.3	173.0	0.7	22.64	185.42	11.26	250.1	Cap
9 Aug 2022	21h39m14.09s	-15 23' 45.6"	9.871	8.8620	0.3	174.0	0.6	22.55	186.52	11.30	250.1	Cap
10 Aug 2022	21h38m56.69s	-15 25' 18.0"	9.871	8.8604	0.3	175.0	0.5	22.44	187.62	11.33	250.2	Cap

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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11 Aug 2022	21h38m39.24s	-15 26' 50.3"	9.870	8.8591	0.3	176.0	0.4	22.33	188.71	11.35	250.3	Cap
12 Aug 2022	21h38m21.74s	-15 28' 22.6"	9.870	8.8581	0.3	176.9	0.3	22.20	189.81	11.37	250.3	Cap
13 Aug 2022	21h38m04.22s	-15 29' 54.7"	9.870	8.8574	0.3	177.8	0.2	22.05	190.90	11.38	250.4	Cap
14 Aug 2022	21h37m46.67s	-15 31' 26.7"	9.870	8.8569	0.3	178.5	0.2	21.90	191.99	11.38	250.4	Cap
15 Aug 2022	21h37m29.10s	-15 32' 58.5"	9.869	8.8568	0.3	178.7	0.1	21.73	193.07	11.38	250.5	Cap
16 Aug 2022	21h37m11.53s	-15 34' 30.1"	9.869	8.8570	0.3	178.1	0.2	21.55	194.15	11.38	250.5	Cap
17 Aug 2022	21h36m53.96s	-15 36' 01.4"	9.869	8.8575	0.3	177.3	0.3	21.36	195.23	11.37	250.6	Cap
18 Aug 2022	21h36m36.40s	-15 37' 32.3"	9.869	8.8583	0.3	176.3	0.4	21.16	196.31	11.35	250.6	Cap
19 Aug 2022	21h36m18.86s	-15 39' 02.9"	9.869	8.8593	0.3	175.4	0.5	20.94	197.37	11.33	250.7	Cap
20 Aug 2022	21h36m01.32s	-15 40' 33.1"	9.868	8.8607	0.3	174.4	0.6	20.72	198.44	11.30	250.7	Cap
21 Aug 2022	21h35m43.88s	-15 42' 02.8"	9.868	8.8624	0.3	173.3	0.7	20.48	199.50	11.27	250.8	Cap
22 Aug 2022	21h35m26.45s	-15 43' 32.0"	9.868	8.8644	0.3	172.3	0.8	20.24	200.55	11.23	250.8	Cap
23 Aug 2022	21h35m09.08s	-15 45' 00.7"	9.868	8.8666	0.3	171.3	0.9	19.98	201.60	11.18	250.9	Cap
24 Aug 2022	21h34m51.78s	-15 46' 28.8"	9.867	8.8692	0.3	170.3	1.0	19.71	202.65	11.13	250.9	Cap
25 Aug 2022	21h34m34.55s	-15 47' 56.2"	9.867	8.8721	0.3	169.2	1.1	19.43	203.69	11.08	251.0	Cap
26 Aug 2022	21h34m17.41s	-15 49' 23.0"	9.867	8.8753	0.3	168.2	1.2	19.14	204.72	11.01	251.0	Cap
27 Aug 2022	21h34m00.37s	-15 50' 49.0"	9.867	8.8787	0.3	167.2	1.3	18.84	205.75	10.94	251.1	Cap
28 Aug 2022	21h33m43.42s	-15 52' 14.3"	9.866	8.8825	0.3	166.2	1.4	18.52	206.77	10.87	251.1	Cap
29 Aug 2022	21h33m26.60s	-15 53' 38.8"	9.866	8.8865	0.3	165.1	1.5	18.20	207.78	10.78	251.2	Cap
30 Aug 2022	21h33m09.89s	-15 55' 02.4"	9.866	8.8909	0.3	164.1	1.6	17.87	208.79	10.70	251.2	Cap
31 Aug 2022	21h32m53.32s	-15 56' 25.1"	9.866	8.8955	0.3	163.1	1.7	17.53	209.80	10.60	251.3	Cap
1 Sep 2022	21h32m36.89s	-15 57' 46.8"	9.865	8.9004	0.3	162.0	1.8	17.18	210.80	10.50	251.4	Cap
2 Sep 2022	21h32m20.60s	-15 59' 07.6"	9.865	8.9057	0.3	161.0	1.9	16.83	211.79	10.40	251.4	Cap
3 Sep 2022	21h32m04.48s	-16 00' 27.4"	9.865	8.9112	0.4	159.9	2.0	16.46	212.77	10.29	251.5	Cap
4 Sep 2022	21h31m48.53s	-16 01' 46.1"	9.865	8.9169	0.4	158.9	2.1	16.08	213.75	10.17	251.5	Cap
5 Sep 2022	21h31m32.75s	-16 03' 03.7"	9.864	8.9230	0.4	157.9	2.2	15.70	214.72	10.05	251.6	Cap
6 Sep 2022	21h31m17.15s	-16 04' 20.2"	9.864	8.9293	0.4	156.8	2.3	15.30	215.69	9.93	251.6	Cap
7 Sep 2022	21h31m01.75s	-16 05' 35.5"	9.864	8.9359	0.4	155.8	2.4	14.90	216.65	9.80	251.7	Cap
8 Sep 2022	21h30m46.54s	-16 06' 49.7"	9.864	8.9428	0.4	154.8	2.5	14.49	217.60	9.67	251.7	Cap
9 Sep 2022	21h30m31.54s	-16 08' 02.6"	9.864	8.9500	0.4	153.8	2.6	14.08	218.55	9.53	251.8	Cap
10 Sep 2022	21h30m16.75s	-16 09' 14.2"	9.863	8.9574	0.4	152.7	2.7	13.65	219.49	9.38	251.8	Cap
11 Sep 2022	21h30m02.19s	-16 10' 24.6"	9.863	8.9651	0.4	151.7	2.8	13.22	220.42	9.24	251.9	Cap
12 Sep 2022	21h29m47.85s	-16 11' 33.7"	9.863	8.9730	0.4	150.7	2.9	12.78	221.35	9.08	251.9	Cap
13 Sep 2022	21h29m33.74s	-16 12' 41.4"	9.863	8.9812	0.4	149.6	3.0	12.33	222.27	8.93	252.0	Cap
14 Sep 2022	21h29m19.87s	-16 13' 47.8"	9.862	8.9897	0.4	148.6	3.0	11.88	223.18	8.77	252.1	Cap
15 Sep 2022	21h29m06.26s	-16 14' 52.7"	9.862	8.9984	0.4	147.6	3.1	11.42	224.09	8.60	252.1	Cap
16 Sep 2022	21h28m52.90s	-16 15' 56.3"	9.862	9.007	0.4	146.5	3.2	10.95	224.99	8.43	252.2	Cap
17 Sep 2022	21h28m39.80s	-16 16' 58.4"	9.862	9.017	0.4	145.5	3.3	10.48	225.89	8.26	252.2	Cap
18 Sep 2022	21h28m26.97s	-16 17' 59.0"	9.861	9.026	0.4	144.5	3.4	10.00	226.78	8.08	252.3	Cap
19 Sep 2022	21h28m14.42s	-16 18' 58.1"	9.861	9.036	0.4	143.4	3.5	9.52	227.66	7.90	252.4	Cap
20 Sep 2022	21h28m02.15s	-16 19' 55.7"	9.861	9.046	0.4	142.4	3.6	9.03	228.54	7.71	252.4	Cap
21 Sep 2022	21h27m50.17s	-16 20' 51.8"	9.861	9.056	0.4	141.4	3.6	8.53	229.41	7.52	252.5	Cap
22 Sep 2022	21h27m38.49s	-16 21' 46.2"	9.860	9.066	0.4	140.4	3.7	8.03	230.28	7.33	252.6	Cap
23 Sep 2022	21h27m27.11s	-16 22' 39.1"	9.860	9.077	0.5	139.3	3.8	7.53	231.14	7.13	252.6	Cap
24 Sep 2022	21h27m16.04s	-16 23' 30.3"	9.860	9.088	0.5	138.3	3.9	7.02	232.00	6.93	252.7	Cap
25 Sep 2022	21h27m05.28s	-16 24' 19.9"	9.860	9.099	0.5	137.3	4.0	6.50	232.85	6.72	252.8	Cap
26 Sep 2022	21h26m54.85s	-16 25' 07.7"	9.859	9.110	0.5	136.3	4.0	5.98	233.69	6.51	252.9	Cap
27 Sep 2022	21h26m44.74s	-16 25' 53.9"	9.859	9.122	0.5	135.2	4.1	5.46	234.53	6.30	252.9	Cap
28 Sep 2022	21h26m34.97s	-16 26' 38.4"	9.859	9.134	0.5	134.2	4.2	4.93	235.37	6.08	253.0	Cap
29 Sep 2022	21h26m25.53s	-16 27' 21.2"	9.859	9.146	0.5	133.2	4.2	4.40	236.20	5.86	253.1	Cap
30 Sep 2022	21h26m16.44s	-16 28' 02.1"	9.858	9.158	0.5	132.2	4.3	3.86	237.02	5.64	253.2	Cap
1 Okt 2022	21h26m07.70s	-16 28' 41.4"	9.858	9.170	0.5	131.2	4.4	3.32	237.84	5.41	253.3	Cap
2 Okt 2022	21h25m59.31s	-16 29' 18.8"	9.858	9.183	0.5	130.1	4.5	2.78	238.66	5.19	253.4	Cap
3 Okt 2022	21h25m51.27s	-16 29' 54.4"	9.858	9.196	0.5	129.1	4.5	2.23	239.47	4.96	253.5	Cap
4 Okt 2022	21h25m43.60s	-16 30' 28.2"	9.858	9.208	0.5	128.1	4.6	1.68	240.27	4.72	253.7	Cap
5 Okt 2022	21h25m36.28s	-16 31' 00.2"	9.857	9.222	0.5	127.1	4.6	1.13	241.08	4.49	253.8	Cap
6 Okt 2022	21h25m29.34s	-16 31' 30.3"	9.857	9.235	0.5	126.1	4.7	0.57	241.87	4.25	254.0	Cap
7 Okt 2022	21h25m22.76s	-16 31' 58.6"	9.857	9.248	0.5	125.1	4.8	0.01	242.67	4.02	254.1	Cap
8 Okt 2022	21h25m16.56s	-16 32' 25.1"	9.857	9.262	0.5	124.1	4.8	-0.55	243.46	3.78	254.3	Cap
9 Okt 2022	21h25m10.73s	-16 32' 49.7"	9.856	9.276	0.5	123.1	4.9	-1.12	244.25	3.54	254.5	Cap
10 Okt 2022	21h25m05.28s	-16 33' 12.4"	9.856	9.290	0.5	122.0	4.9	-1.68	245.03	3.29	254.8	Cap
11 Okt 2022	21h25m00.21s	-16 33' 33.3"	9.856	9.304	0.6	121.0	5.0	-2.25	245.81	3.05	255.1	Cap
12 Okt 2022	21h24m55.52s	-16 33' 52.2"	9.856	9.318	0.6	120.0	5.0	-2.82	246.59	2.80	255.4	Cap
13 Okt 2022	21h24m51.22s	-16 34' 09.3"	9.855	9.333	0.6	119.0	5.1	-3.40	247.36	2.56	255.8	Cap
14 Okt 2022	21h24m47.31s	-16 34' 24.5"	9.855	9.347	0.6	118.0	5.1	-3.97	248.13	2.31	256.2	Cap
15 Okt 2022	21h24m43.78s	-16 34' 37.8"	9.855	9.362	0.6	117.0	5.2	-4.55	248.90	2.06	256.8	Cap
16 Okt 2022	21h24m40.65s	-16 34' 49.2"	9.855	9.377	0.6	116.0	5.2	-5.13	249.67	1.81	257.5	Cap
17 Okt 2022	21h24m37.92s	-16 34' 58.7"	9.854	9.392	0.6	115.0	5.3	-5.71	250.43	1.56	258.5	Cap
18 Okt 2022	21h24m35.58s	-16 35' 06.3"	9.854	9.407	0.6	114.0	5.3	-6.29	251.19	1.31	259.8	Cap
19 Okt 2022	21h24m33.64s	-16 35' 11.9"	9.854	9.422	0.6	113.0	5.3	-6.87	251.95	1.05	261.8	Cap
20 Okt 2022	21h24m32.10s	-16 35' 15.7"	9.854	9.437	0.6	112.0	5.4	-7.46	252.71	0.80	265.0	Cap
21 Okt 2022	21h24m30.97s	-16 35' 17.5"	9.853	9.453	0.6	111.0	5.4	-8.04	253.46	0.56	271.0	Cap
22 Okt 2022	21h24m30.23s	-16 35' 17.3"	9.853	9.468	0.6	110.0	5.4	-8.63	254.22	0.32	286.2	Cap
23 Okt 2022	21h24m29.91s	-16 35' 15.2"	9.853	9.484	0.6	109.0	5.5	-9.21	254.97	0.18	339.3	Cap

EPHEMERIDE 2022 – SATURN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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24 Okt 2022	21h24m29.99s	-16 35' 11.2"	9.853	9.499	0.6	108.0	5.5	-9.80	255.72	0.31	35.8	Cap
25 Okt 2022	21h24m30.48s	-16 35' 05.3"	9.852	9.515	0.6	107.0	5.5	-10.39	256.47	0.54	52.2	Cap
26 Okt 2022	21h24m31.38s	-16 34' 57.3"	9.852	9.531	0.6	106.0	5.6	-10.97	257.22	0.79	58.5	Cap
27 Okt 2022	21h24m32.68s	-16 34' 47.5"	9.852	9.547	0.6	105.0	5.6	-11.56	257.97	1.05	61.8	Cap
28 Okt 2022	21h24m34.40s	-16 34' 35.7"	9.852	9.563	0.6	104.1	5.6	-12.15	258.71	1.31	63.8	Cap
29 Okt 2022	21h24m36.53s	-16 34' 21.9"	9.851	9.579	0.6	103.1	5.6	-12.74	259.46	1.56	65.2	Cap
30 Okt 2022	21h24m39.06s	-16 34' 06.2"	9.851	9.595	0.6	102.1	5.7	-13.33	260.21	1.82	66.1	Cap
31 Okt 2022	21h24m42.00s	-16 33' 48.6"	9.851	9.612	0.7	101.1	5.7	-13.91	260.95	2.08	66.9	Cap
1 Nov 2022	21h24m45.35s	-16 33' 29.0"	9.851	9.628	0.7	100.1	5.7	-14.50	261.70	2.34	67.4	Cap
2 Nov 2022	21h24m49.11s	-16 33' 07.6"	9.850	9.644	0.7	99.1	5.7	-15.09	262.44	2.60	67.9	Cap
3 Nov 2022	21h24m53.27s	-16 32' 44.2"	9.850	9.661	0.7	98.1	5.7	-15.68	263.19	2.85	68.2	Cap
4 Nov 2022	21h24m57.83s	-16 32' 18.8"	9.850	9.677	0.7	97.2	5.7	-16.26	263.94	3.11	68.6	Cap
5 Nov 2022	21h25m02.80s	-16 31' 51.6"	9.850	9.694	0.7	96.2	5.7	-16.85	264.68	3.36	68.8	Cap
6 Nov 2022	21h25m08.16s	-16 31' 22.5"	9.849	9.710	0.7	95.2	5.8	-17.44	265.43	3.62	69.0	Cap
7 Nov 2022	21h25m13.93s	-16 30' 51.5"	9.849	9.727	0.7	94.2	5.8	-18.02	266.18	3.87	69.2	Cap
8 Nov 2022	21h25m20.09s	-16 30' 18.7"	9.849	9.743	0.7	93.2	5.8	-18.60	266.93	4.12	69.4	Cap
9 Nov 2022	21h25m26.65s	-16 29' 43.9"	9.849	9.760	0.7	92.3	5.8	-19.19	267.68	4.37	69.6	Cap
10 Nov 2022	21h25m43.24s	-16 29' 07.3"	9.849	9.776	0.7	91.3	5.8	-19.77	268.43	4.62	69.7	Cap
11 Nov 2022	21h25m40.95s	-16 28' 28.8"	9.848	9.793	0.7	90.3	5.8	-20.35	269.19	4.87	69.8	Cap
12 Nov 2022	21h25m48.69s	-16 27' 48.5"	9.848	9.809	0.7	89.3	5.8	-20.93	269.95	5.12	69.9	Cap
13 Nov 2022	21h25m56.82s	-16 27' 06.4"	9.848	9.826	0.7	88.4	5.8	-21.51	270.70	5.37	70.0	Cap
14 Nov 2022	21h26m05.33s	-16 26' 22.4"	9.848	9.843	0.7	87.4	5.8	-22.08	271.47	5.62	70.1	Cap
15 Nov 2022	21h26m14.23s	-16 25' 36.6"	9.847	9.859	0.7	86.4	5.8	-22.66	272.23	5.86	70.2	Cap
16 Nov 2022	21h26m23.52s	-16 24' 48.9"	9.847	9.876	0.7	85.5	5.7	-23.23	273.00	6.11	70.3	Cap
17 Nov 2022	21h26m33.19s	-16 23' 59.5"	9.847	9.892	0.7	84.5	5.7	-23.80	273.76	6.35	70.3	Cap
18 Nov 2022	21h26m43.24s	-16 23' 08.2"	9.847	9.909	0.7	83.5	5.7	-24.37	274.54	6.59	70.4	Cap
19 Nov 2022	21h26m53.66s	-16 22' 15.2"	9.846	9.925	0.7	82.6	5.7	-24.94	275.31	6.83	70.5	Cap
20 Nov 2022	21h27m04.47s	-16 21' 20.3"	9.846	9.942	0.7	81.6	5.7	-25.50	276.09	7.07	70.5	Cap
21 Nov 2022	21h27m15.65s	-16 20' 23.7"	9.846	9.958	0.7	80.7	5.7	-26.07	276.87	7.31	70.6	Cap
22 Nov 2022	21h27m27.20s	-16 19' 25.3"	9.846	9.974	0.7	79.7	5.7	-26.63	277.66	7.54	70.6	Cap
23 Nov 2022	21h27m39.12s	-16 18' 25.2"	9.845	9.991	0.7	78.7	5.6	-27.19	278.45	7.78	70.6	Cap
24 Nov 2022	21h27m51.40s	-16 17' 23.3"	9.845	10.007	0.7	77.8	5.6	-27.74	279.24	8.01	70.7	Cap
25 Nov 2022	21h28m04.05s	-16 16' 19.6"	9.845	10.023	0.8	76.8	5.6	-28.29	280.04	8.24	70.7	Cap
26 Nov 2022	21h28m17.06s	-16 15' 14.2"	9.845	10.039	0.8	75.9	5.6	-28.85	280.84	8.47	70.7	Cap
27 Nov 2022	21h28m30.43s	-16 14' 07.1"	9.844	10.055	0.8	74.9	5.6	-29.39	281.65	8.70	70.8	Cap
28 Nov 2022	21h28m44.14s	-16 12' 58.4"	9.844	10.071	0.8	73.9	5.5	-29.94	282.46	8.92	70.8	Cap
29 Nov 2022	21h28m58.21s	-16 11' 47.9"	9.844	10.087	0.8	73.0	5.5	-30.48	283.28	9.14	70.8	Cap
30 Nov 2022	21h29m12.62s	-16 10' 35.7"	9.844	10.103	0.8	72.0	5.5	-31.02	284.11	9.36	70.8	Cap
1 Dez 2022	21h29m27.37s	-16 09' 21.9"	9.843	10.119	0.8	71.1	5.4	-31.55	284.94	9.58	70.9	Cap
2 Dez 2022	21h29m42.46s	-16 08' 06.5"	9.843	10.134	0.8	70.1	5.4	-32.09	285.77	9.79	70.9	Cap
3 Dez 2022	21h29m57.88s	-16 06' 49.5"	9.843	10.150	0.8	69.2	5.4	-32.61	286.61	10.00	70.9	Cap
4 Dez 2022	21h30m13.63s	-16 05' 30.8"	9.843	10.165	0.8	68.3	5.3	-33.14	287.46	10.21	70.9	Cap
5 Dez 2022	21h30m29.71s	-16 04' 10.6"	9.842	10.181	0.8	67.3	5.3	-33.66	288.32	10.42	70.9	Cap
6 Dez 2022	21h30m46.11s	-16 02' 48.8"	9.842	10.196	0.8	66.4	5.3	-34.18	289.18	10.63	70.9	Cap
7 Dez 2022	21h31m02.82s	-16 01' 25.4"	9.842	10.211	0.8	65.4	5.2	-34.69	290.04	10.83	70.9	Cap
8 Dez 2022	21h31m19.85s	-16 00' 00.5"	9.842	10.226	0.8	64.5	5.2	-35.20	290.92	11.03	71.0	Cap
9 Dez 2022	21h31m37.18s	-15 58' 34.1"	9.841	10.241	0.8	63.5	5.1	-35.71	291.80	11.23	71.0	Cap
10 Dez 2022	21h31m54.83s	-15 57' 06.1"	9.841	10.256	0.8	62.6	5.1	-36.21	292.69	11.42	71.0	Cap
11 Dez 2022	21h32m12.77s	-15 55' 36.7"	9.841	10.270	0.8	61.7	5.1	-36.70	293.59	11.62	71.0	Cap
12 Dez 2022	21h32m31.02s	-15 54' 05.7"	9.841	10.285	0.8	60.7	5.0	-37.19	294.50	11.81	71.0	Cap
13 Dez 2022	21h32m49.55s	-15 52' 33.3"	9.840	10.299	0.8	59.8	5.0	-37.68	295.41	12.00	71.0	Cap
14 Dez 2022	21h33m08.38s	-15 50' 59.5"	9.840	10.313	0.8	58.8	4.9	-38.16	296.34	12.18	71.0	Cap
15 Dez 2022	21h33m27.50s	-15 49' 24.2"	9.840	10.327	0.8	57.9	4.9	-38.64	297.27	12.37	71.0	Cap
16 Dez 2022	21h33m46.90s	-15 47' 47.4"	9.840	10.341	0.8	57.0	4.8	-39.11	298.21	12.55	71.0	Cap
17 Dez 2022	21h34m06.59s	-15 46' 09.3"	9.839	10.355	0.8	56.0	4.8	-39.58	299.16	12.73	71.0	Cap
18 Dez 2022	21h34m26.54s	-15 44' 29.8"	9.839	10.369	0.8	55.1	4.7	-40.04	300.12	12.90	71.0	Cap
19 Dez 2022	21h34m46.77s	-15 42' 48.8"	9.839	10.382	0.8	54.2	4.7	-40.49	301.09	13.08	71.0	Cap
20 Dez 2022	21h35m07.27s	-15 41' 06.6"	9.839	10.396	0.8	53.2	4.6	-40.94	302.07	13.25	71.0	Cap
21 Dez 2022	21h35m28.03s	-15 39' 22.9"	9.838	10.409	0.8	52.3	4.5	-41.38	303.06	13.42	71.0	Cap
22 Dez 2022	21h35m49.05s	-15 37' 38.0"	9.838	10.422	0.8	51.4	4.5	-41.82	304.06	13.59	71.0	Cap
23 Dez 2022	21h36m10.33s	-15 35' 51.7"	9.838	10.435	0.8	50.5	4.4	-42.25	305.07	13.75	71.0	Cap
24 Dez 2022	21h36m31.85s	-15 34' 04.1"	9.838	10.448	0.8	49.5	4.4	-42.68	306.09	13.91	71.0	Cap
25 Dez 2022	21h36m53.62s	-15 32' 15.2"	9.837	10.460	0.8	48.6	4.3	-43.09	307.12	14.07	71.0	Cap
26 Dez 2022	21h37m15.63s	-15 30' 25.1"	9.837	10.472	0.8	47.7	4.2	-43.50	308.16	14.23	71.0	Cap
27 Dez 2022	21h37m37.88s	-15 28' 33.7"	9.837	10.485	0.8	46.8	4.2	-43.90	309.22	14.38	71.0	Cap
28 Dez 2022	21h38m00.36s	-15 26' 41.1"	9.837	10.497	0.8	45.8	4.1	-44.30	310.28	14.53	71.0	Cap
29 Dez 2022	21h38m23.06s	-15 24' 47.4"	9.836	10.508	0.8	44.9	4.0	-44.69	311.36	14.67	71.0	Cap
30 Dez 2022	21h38m45.98s	-15 22' 52.4"	9.836	10.520	0.8	44.0	4.0	-45.07	312.45	14.81	71.0	Cap
31 Dez 2022	21h39m09.12s	-15 20' 56.3"	9.836	10.531	0.8	43.1	3.9	-45.44	313.55	14.95	71.0	Cap
1 Jan 2023	21h39m32.47s	-15 18' 59.1"	9.836	10.543	0.8	42.1	3.8	-45.81	314.66	15.09	71.0	Cap