

EPHEMERIDE 2024 – Saturn

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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1 Jan 2024	22h21m51.20s	-11 57' 29.0"	9.738	10.295	0.9	53.2	4.6	-37.71	304.53	13.39	68.1 Aqr
2 Jan 2024	22h22m11.45s	-11 55' 29.0"	9.738	10.308	0.9	52.3	4.6	-38.14	305.51	13.56	68.1 Aqr
3 Jan 2024	22h22m31.96s	-11 53' 27.5"	9.737	10.321	0.9	51.4	4.5	-38.56	306.50	13.72	68.1 Aqr
4 Jan 2024	22h22m52.72s	-11 51' 24.6"	9.737	10.334	1.0	50.4	4.5	-38.97	307.50	13.89	68.2 Aqr
5 Jan 2024	22h23m13.72s	-11 49' 20.3"	9.737	10.346	1.0	49.5	4.4	-39.38	308.51	14.05	68.2 Aqr
6 Jan 2024	22h23m34.97s	-11 47' 14.6"	9.736	10.359	1.0	48.6	4.3	-39.78	309.52	14.21	68.2 Aqr
7 Jan 2024	22h23m56.45s	-11 45' 07.5"	9.736	10.371	1.0	47.7	4.3	-40.17	310.55	14.37	68.2 Aqr
8 Jan 2024	22h24m18.16s	-11 42' 59.1"	9.736	10.383	1.0	46.7	4.2	-40.55	311.58	14.52	68.2 Aqr
9 Jan 2024	22h24m40.11s	-11 40' 49.4"	9.736	10.395	1.0	45.8	4.2	-40.93	312.63	14.67	68.2 Aqr
10 Jan 2024	22h25m02.28s	-11 38' 38.4"	9.735	10.407	1.0	44.9	4.1	-41.30	313.68	14.82	68.2 Aqr
11 Jan 2024	22h25m24.67s	-11 36' 26.2"	9.735	10.419	1.0	44.0	4.0	-41.66	314.75	14.97	68.2 Aqr
12 Jan 2024	22h25m47.27s	-11 34' 12.7"	9.735	10.430	1.0	43.1	4.0	-42.02	315.82	15.11	68.2 Aqr
13 Jan 2024	22h26m10.09s	-11 31' 57.9"	9.734	10.441	1.0	42.1	3.9	-42.36	316.91	15.25	68.3 Aqr
14 Jan 2024	22h26m33.11s	-11 29' 42.0"	9.734	10.452	1.0	41.2	3.8	-42.70	318.00	15.38	68.3 Aqr
15 Jan 2024	22h26m56.33s	-11 27' 25.0"	9.734	10.463	1.0	40.3	3.7	-43.03	319.10	15.52	68.3 Aqr
16 Jan 2024	22h27m19.74s	-11 25' 06.7"	9.734	10.474	1.0	39.4	3.7	-43.34	320.21	15.65	68.3 Aqr
17 Jan 2024	22h27m43.35s	-11 22' 47.4"	9.733	10.484	1.0	38.5	3.6	-43.66	321.34	15.77	68.3 Aqr
18 Jan 2024	22h28m07.14s	-11 20' 27.0"	9.733	10.494	1.0	37.6	3.5	-43.96	322.47	15.89	68.3 Aqr
19 Jan 2024	22h28m31.12s	-11 18' 05.6"	9.733	10.504	1.0	36.6	3.5	-44.25	323.61	16.01	68.3 Aqr
20 Jan 2024	22h28m55.26s	-11 15' 43.1"	9.732	10.514	1.0	35.7	3.4	-44.53	324.76	16.13	68.3 Aqr
21 Jan 2024	22h29m19.58s	-11 13' 19.6"	9.732	10.524	1.0	34.8	3.3	-44.80	325.92	16.24	68.3 Aqr
22 Jan 2024	22h29m44.07s	-11 10' 55.1"	9.732	10.533	1.0	33.9	3.2	-45.07	327.09	16.35	68.3 Aqr
23 Jan 2024	22h30m08.72s	-11 08' 29.7"	9.732	10.542	1.0	33.0	3.2	-45.32	328.26	16.46	68.3 Aqr
24 Jan 2024	22h30m33.53s	-11 06' 03.4"	9.731	10.551	1.0	32.1	3.1	-45.56	329.45	16.57	68.3 Aqr
25 Jan 2024	22h30m58.49s	-11 03' 36.1"	9.731	10.560	1.0	31.2	3.0	-45.79	330.65	16.67	68.3 Aqr
26 Jan 2024	22h31m23.60s	-11 01' 08.0"	9.731	10.568	1.0	30.3	2.9	-46.02	331.85	16.77	68.3 Aqr
27 Jan 2024	22h31m48.86s	-10 58' 39.0"	9.730	10.576	1.0	29.4	2.8	-46.23	333.06	16.87	68.3 Aqr
28 Jan 2024	22h32m14.25s	-10 56' 09.2"	9.730	10.584	1.0	28.5	2.8	-46.43	334.28	16.96	68.3 Aqr
29 Jan 2024	22h32m39.79s	-10 53' 38.6"	9.730	10.592	1.0	27.6	2.7	-46.62	335.51	17.05	68.3 Aqr
30 Jan 2024	22h33m05.46s	-10 51' 07.1"	9.730	10.600	1.0	26.7	2.6	-46.80	336.74	17.14	68.3 Aqr
31 Jan 2024	22h33m31.25s	-10 48' 34.9"	9.729	10.607	1.0	25.8	2.5	-46.96	337.98	17.23	68.3 Aqr
1 Feb 2024	22h33m57.18s	-10 46' 02.0"	9.729	10.614	1.0	24.9	2.4	-47.12	339.23	17.31	68.3 Aqr
2 Feb 2024	22h34m23.22s	-10 43' 28.3"	9.729	10.621	1.0	24.0	2.4	-47.26	340.48	17.39	68.3 Aqr
3 Feb 2024	22h34m49.37s	-10 40' 53.9"	9.728	10.627	1.0	23.1	2.3	-47.40	341.74	17.47	68.3 Aqr
4 Feb 2024	22h35m15.64s	-10 38' 18.9"	9.728	10.634	1.0	22.2	2.2	-47.52	343.00	17.54	68.3 Aqr
5 Feb 2024	22h35m42.02s	-10 35' 43.2"	9.728	10.640	1.0	21.3	2.1	-47.63	344.27	17.62	68.3 Aqr
6 Feb 2024	22h36m08.50s	-10 33' 06.9"	9.728	10.646	1.0	20.4	2.0	-47.73	345.54	17.68	68.3 Aqr
7 Feb 2024	22h36m35.08s	-10 30' 30.0"	9.727	10.651	1.0	19.5	1.9	-47.81	346.81	17.75	68.3 Aqr
8 Feb 2024	22h37m01.76s	-10 27' 52.5"	9.727	10.657	1.0	18.6	1.9	-47.89	348.09	17.81	68.3 Aqr
9 Feb 2024	22h37m28.52s	-10 25' 14.4"	9.727	10.662	1.0	17.7	1.8	-47.95	349.37	17.87	68.3 Aqr
10 Feb 2024	22h37m55.37s	-10 22' 35.9"	9.726	10.667	1.0	16.8	1.7	-48.00	350.66	17.93	68.3 Aqr
11 Feb 2024	22h38m22.29s	-10 19' 56.8"	9.726	10.671	1.0	16.0	1.6	-48.03	351.94	17.98	68.3 Aqr
12 Feb 2024	22h38m49.30s	-10 17' 17.3"	9.726	10.676	1.0	15.1	1.5	-48.06	353.23	18.03	68.3 Aqr
13 Feb 2024	22h39m16.37s	-10 14' 37.4"	9.726	10.680	1.0	14.2	1.4	-48.07	354.52	18.08	68.3 Aqr
14 Feb 2024	22h39m43.50s	-10 11' 57.0"	9.725	10.684	1.0	13.3	1.3	-48.07	355.81	18.12	68.3 Aqr
15 Feb 2024	22h40m10.70s	-10 09' 16.3"	9.725	10.687	1.0	12.4	1.3	-48.06	357.09	18.16	68.3 Aqr
16 Feb 2024	22h40m37.95s	-10 06' 35.3"	9.725	10.691	1.0	11.5	1.2	-48.04	358.38	18.20	68.4 Aqr
17 Feb 2024	22h41m05.25s	-10 03' 53.9"	9.724	10.694	1.0	10.6	1.1	-48.00	359.66	18.23	68.4 Aqr
18 Feb 2024	22h41m32.60s	-10 01' 12.3"	9.724	10.697	1.0	9.8	1.0	-47.95	0.95	18.27	68.4 Aqr
19 Feb 2024	22h41m59.99s	-09 58' 30.4"	9.724	10.699	1.0	8.9	0.9	-47.89	2.23	18.29	68.4 Aqr
20 Feb 2024	22h42m27.42s	-09 55' 48.3"	9.724	10.702	1.0	8.0	0.8	-47.82	3.50	18.32	68.4 Aqr
21 Feb 2024	22h42m54.88s	-09 53' 05.9"	9.723	10.704	1.0	7.2	0.7	-47.74	4.78	18.34	68.4 Aqr
22 Feb 2024	22h43m22.37s	-09 50' 23.4"	9.723	10.705	1.0	6.3	0.6	-47.64	6.05	18.36	68.4 Aqr
23 Feb 2024	22h43m49.89s	-09 47' 40.7"	9.723	10.707	1.0	5.4	0.6	-47.53	7.31	18.38	68.4 Aqr
24 Feb 2024	22h44m17.43s	-09 44' 57.9"	9.722	10.708	1.0	4.6	0.5	-47.42	8.57	18.39	68.4 Aqr
25 Feb 2024	22h44m44.98s	-09 42' 15.0"	9.722	10.709	1.0	3.8	0.4	-47.28	9.82	18.41	68.4 Aqr
26 Feb 2024	22h45m12.55s	-09 39' 31.9"	9.722	10.710	0.9	3.0	0.3	-47.14	11.07	18.42	68.4 Aqr
27 Feb 2024	22h45m40.13s	-09 36' 48.9"	9.722	10.711	0.9	2.3	0.2	-46.99	12.31	18.42	68.4 Aqr
28 Feb 2024	22h46m07.72s	-09 34' 05.7"	9.721	10.711	0.9	1.8	0.2	-46.82	13.55	18.43	68.4 Aqr
29 Feb 2024	22h46m35.31s	-09 31' 22.6"	9.721	10.711	1.0	1.6	0.2	-46.65	14.78	18.43	68.4 Aqr
1 Mär 2024	22h47m02.89s	-09 28' 39.4"	9.721	10.711	1.0	1.9	0.2	-46.46	16.00	18.43	68.4 Aqr
2 Mär 2024	22h47m30.47s	-09 25' 56.3"	9.720	10.711	1.0	2.5	0.3	-46.26	17.21	18.42	68.4 Aqr
3 Mär 2024	22h47m58.04s	-09 23' 13.3"	9.720	10.710	1.0	3.2	0.3	-46.05	18.42	18.42	68.4 Aqr
4 Mär 2024	22h48m25.60s	-09 20' 30.3"	9.720	10.709	1.0	4.0	0.4	-45.83	19.62	18.41	68.4 Aqr
5 Mär 2024	22h48m53.13s	-09 17' 47.5"	9.720	10.708	1.0	4.8	0.5	-45.60	20.80	18.39	68.4 Aqr
6 Mär 2024	22h49m20.65s	-09 15' 04.8"	9.719	10.706	1.0	5.6	0.6	-45.36	21.98	18.38	68.4 Aqr
7 Mär 2024	22h49m48.14s	-09 12' 22.2"	9.719	10.704	1.0	6.5	0.7	-45.11	23.15	18.36	68.4 Aqr
8 Mär 2024	22h50m15.59s	-09 09' 39.9"	9.719	10.703	1.0	7.3	0.7	-44.85	24.32	18.34	68.4 Aqr
9 Mär 2024	22h50m43.01s	-09 06' 57.8"	9.718	10.700	1.0	8.2	0.8	-44.58	25.47	18.31	68.4 Aqr
10 Mär 2024	22h51m10.39s	-09 04' 15.9"	9.718	10.698	1.0	9.0	0.9	-44.30	26.61	18.29	68.4 Aqr
11 Mär 2024	22h51m37.73s	-09 01' 34.3"	9.718	10.695	1.0	9.9	1.0	-44.02	27.74	18.26	68.4 Aqr
12 Mär 2024	22h52m05.01s	-08 58' 53.0"	9.718	10.692	1.0	10.8	1.1	-43.72	28.87	18.22	68.4 Aqr
13 Mär 2024	22h52m32.24s	-08 56' 12.1"	9.717	10.689	1.0	11.6	1.2	-43.41	29.98	18.18	68.4 Aqr
14 Mär 2024	22h52m59.41s	-08 53' 31.5"	9.717	10.685	1.0	12.5	1.3	-43.10	31.08	18.14	68.4 Aqr

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15 Mär 2024	22h53m26.52s	-08 50' 51.4"	9.717	10.682	1.0	13.4	1.4	-42.77	32.18	18.10	68.4 Aqr
16 Mär 2024	22h53m53.56s	-08 48' 11.6"	9.716	10.678	1.0	14.3	1.4	-42.44	33.26	18.05	68.4 Aqr
17 Mär 2024	22h54m20.53s	-08 45' 32.4"	9.716	10.673	1.0	15.1	1.5	-42.10	34.33	18.01	68.4 Aqr
18 Mär 2024	22h54m47.42s	-08 42' 53.6"	9.716	10.669	1.0	16.0	1.6	-41.75	35.40	17.95	68.5 Aqr
19 Mär 2024	22h55m14.24s	-08 40' 15.3"	9.716	10.664	1.1	16.9	1.7	-41.39	36.45	17.90	68.5 Aqr
20 Mär 2024	22h55m40.97s	-08 37' 37.6"	9.715	10.659	1.1	17.7	1.8	-41.03	37.49	17.84	68.5 Aqr
21 Mär 2024	22h56m07.61s	-08 35' 00.4"	9.715	10.654	1.1	18.6	1.9	-40.65	38.53	17.79	68.5 Aqr
22 Mär 2024	22h56m34.17s	-08 32' 23.8"	9.715	10.648	1.1	19.5	2.0	-40.27	39.55	17.72	68.5 Aqr
23 Mär 2024	22h57m00.63s	-08 29' 47.8"	9.714	10.643	1.1	20.3	2.0	-39.89	40.57	17.66	68.5 Aqr
24 Mär 2024	22h57m26.99s	-08 27' 12.4"	9.714	10.637	1.1	21.2	2.1	-39.49	41.57	17.59	68.5 Aqr
25 Mär 2024	22h57m53.25s	-08 24' 37.7"	9.714	10.631	1.1	22.1	2.2	-39.09	42.56	17.52	68.5 Aqr
26 Mär 2024	22h58m19.41s	-08 22' 03.7"	9.714	10.624	1.1	23.0	2.3	-38.68	43.55	17.45	68.5 Aqr
27 Mär 2024	22h58m45.45s	-08 19' 30.4"	9.713	10.618	1.1	23.8	2.4	-38.27	44.53	17.38	68.5 Aqr
28 Mär 2024	22h59m11.39s	-08 16' 57.7"	9.713	10.611	1.1	24.7	2.5	-37.85	45.49	17.30	68.5 Aqr
29 Mär 2024	22h59m37.21s	-08 14' 25.9"	9.713	10.604	1.1	25.6	2.5	-37.42	46.45	17.22	68.6 Aqr
30 Mär 2024	23h00m02.91s	-08 11' 54.8"	9.712	10.596	1.1	26.5	2.6	-36.99	47.40	17.14	68.6 Aqr
31 Mär 2024	23h00m28.48s	-08 09' 24.5"	9.712	10.589	1.1	27.3	2.7	-36.55	48.34	17.06	68.6 Aqr
1 Apr 2024	23h00m53.93s	-08 06' 55.1"	9.712	10.581	1.1	28.2	2.8	-36.10	49.27	16.97	68.6 Aqr
2 Apr 2024	23h01m19.25s	-08 04' 26.4"	9.712	10.573	1.1	29.1	2.9	-35.65	50.19	16.88	68.6 Aqr
3 Apr 2024	23h01m44.44s	-08 01' 58.7"	9.711	10.565	1.1	29.9	2.9	-35.20	51.11	16.79	68.6 Aqr
4 Apr 2024	23h02m09.48s	-07 59' 31.9"	9.711	10.556	1.1	30.8	3.0	-34.74	52.01	16.69	68.6 Aqr
5 Apr 2024	23h02m34.38s	-07 57' 06.0"	9.711	10.548	1.1	31.7	3.1	-34.27	52.91	16.59	68.6 Aqr
6 Apr 2024	23h02m59.14s	-07 54' 41.0"	9.710	10.539	1.1	32.6	3.2	-33.80	53.80	16.49	68.7 Aqr
7 Apr 2024	23h03m23.74s	-07 52' 17.1"	9.710	10.530	1.1	33.4	3.3	-33.32	54.68	16.39	68.7 Aqr
8 Apr 2024	23h03m48.18s	-07 49' 54.2"	9.710	10.520	1.1	34.3	3.3	-32.84	55.56	16.28	68.7 Aqr
9 Apr 2024	23h04m12.47s	-07 47' 32.3"	9.710	10.511	1.1	35.2	3.4	-32.36	56.42	16.17	68.7 Aqr
10 Apr 2024	23h04m36.59s	-07 45' 11.5"	9.709	10.501	1.1	36.1	3.5	-31.86	57.28	16.06	68.7 Aqr
11 Apr 2024	23h05m00.54s	-07 42' 51.8"	9.709	10.491	1.1	36.9	3.6	-31.37	58.14	15.94	68.7 Aqr
12 Apr 2024	23h05m24.32s	-07 40' 33.2"	9.709	10.481	1.1	37.8	3.6	-30.87	58.98	15.82	68.8 Aqr
13 Apr 2024	23h05m47.93s	-07 38' 15.8"	9.708	10.471	1.2	38.7	3.7	-30.37	59.82	15.70	68.8 Aqr
14 Apr 2024	23h06m11.35s	-07 35' 59.6"	9.708	10.460	1.2	39.6	3.8	-29.86	60.66	15.58	68.8 Aqr
15 Apr 2024	23h06m34.59s	-07 33' 44.6"	9.708	10.450	1.2	40.4	3.8	-29.35	61.48	15.45	68.8 Aqr
16 Apr 2024	23h06m57.64s	-07 31' 30.9"	9.708	10.439	1.2	41.3	3.9	-28.83	62.30	15.33	68.8 Aqr
17 Apr 2024	23h07m20.50s	-07 29' 18.3"	9.707	10.428	1.2	42.2	4.0	-28.32	63.12	15.19	68.9 Aqr
18 Apr 2024	23h07m43.17s	-07 27' 07.1"	9.707	10.416	1.2	43.1	4.1	-27.79	63.93	15.06	68.9 Aqr
19 Apr 2024	23h08m05.64s	-07 24' 57.2"	9.707	10.405	1.2	43.9	4.1	-27.27	64.73	14.93	68.9 Aqr
20 Apr 2024	23h08m27.91s	-07 22' 48.6"	9.706	10.393	1.2	44.8	4.2	-26.74	65.53	14.79	68.9 Aqr
21 Apr 2024	23h08m49.97s	-07 20' 41.3"	9.706	10.381	1.2	45.7	4.2	-26.21	66.32	14.65	69.0 Aqr
22 Apr 2024	23h09m11.83s	-07 18' 35.4"	9.706	10.369	1.2	46.6	4.3	-25.67	67.11	14.51	69.0 Aqr
23 Apr 2024	23h09m33.48s	-07 16' 30.9"	9.705	10.357	1.2	47.5	4.4	-25.13	67.89	14.36	69.0 Aqr
24 Apr 2024	23h09m54.91s	-07 14' 27.8"	9.705	10.345	1.2	48.3	4.4	-24.59	68.67	14.21	69.0 Aqr
25 Apr 2024	23h10m16.13s	-07 12' 26.1"	9.705	10.332	1.2	49.2	4.5	-24.05	69.45	14.07	69.1 Aqr
26 Apr 2024	23h10m37.13s	-07 10' 25.9"	9.705	10.319	1.2	50.1	4.6	-23.50	70.22	13.91	69.1 Aqr
27 Apr 2024	23h10m57.90s	-07 08' 27.2"	9.704	10.307	1.2	51.0	4.6	-22.95	70.98	13.76	69.1 Aqr
28 Apr 2024	23h11m18.45s	-07 06' 29.9"	9.704	10.294	1.2	51.9	4.7	-22.40	71.74	13.61	69.2 Aqr
29 Apr 2024	23h11m38.76s	-07 04' 34.2"	9.704	10.280	1.2	52.7	4.7	-21.84	72.50	13.45	69.2 Aqr
30 Apr 2024	23h11m58.84s	-07 02' 40.0"	9.703	10.267	1.2	53.6	4.8	-21.29	73.26	13.29	69.2 Aqr
1 Mai 2024	23h12m18.69s	-07 00' 47.4"	9.703	10.254	1.2	54.5	4.8	-20.73	74.01	13.12	69.3 Aqr
2 Mai 2024	23h12m38.29s	-06 58' 56.4"	9.703	10.240	1.2	55.4	4.9	-20.17	74.76	12.96	69.3 Aqr
3 Mai 2024	23h12m57.65s	-06 57' 07.0"	9.703	10.226	1.2	56.3	5.0	-19.60	75.50	12.79	69.4 Aqr
4 Mai 2024	23h13m16.76s	-06 55' 19.3"	9.702	10.212	1.2	57.1	5.0	-19.04	76.24	12.62	69.4 Aqr
5 Mai 2024	23h13m35.61s	-06 53' 33.2"	9.702	10.198	1.2	58.0	5.1	-18.47	76.98	12.44	69.5 Aqr
6 Mai 2024	23h13m54.21s	-06 51' 48.8"	9.702	10.184	1.2	58.9	5.1	-17.90	77.72	12.27	69.5 Aqr
7 Mai 2024	23h14m12.55s	-06 50' 06.1"	9.701	10.170	1.2	59.8	5.2	-17.33	78.45	12.09	69.5 Aqr
8 Mai 2024	23h14m30.62s	-06 48' 25.2"	9.701	10.155	1.2	60.7	5.2	-16.76	79.19	11.90	69.6 Aqr
9 Mai 2024	23h14m48.43s	-06 46' 46.1"	9.701	10.141	1.2	61.6	5.3	-16.18	79.92	11.72	69.6 Aqr
10 Mai 2024	23h15m05.96s	-06 45' 08.7"	9.701	10.126	1.2	62.5	5.3	-15.61	80.64	11.53	69.7 Aqr
11 Mai 2024	23h15m23.23s	-06 43' 33.2"	9.700	10.111	1.2	63.4	5.3	-15.03	81.37	11.34	69.8 Aqr
12 Mai 2024	23h15m40.21s	-06 41' 59.5"	9.700	10.096	1.2	64.3	5.4	-14.45	82.10	11.15	69.8 Aqr
13 Mai 2024	23h15m56.91s	-06 40' 27.7"	9.700	10.081	1.2	65.1	5.4	-13.87	82.82	10.96	69.9 Aqr
14 Mai 2024	23h16m13.33s	-06 38' 57.8"	9.699	10.066	1.2	66.0	5.5	-13.29	83.54	10.77	70.0 Aqr
15 Mai 2024	23h16m29.46s	-06 37' 29.7"	9.699	10.051	1.2	66.9	5.5	-12.71	84.26	10.57	70.0 Aqr
16 Mai 2024	23h16m45.30s	-06 36' 03.6"	9.699	10.035	1.2	67.8	5.5	-12.12	84.98	10.37	70.1 Aqr
17 Mai 2024	23h17m00.85s	-06 34' 39.3"	9.699	10.020	1.2	68.7	5.6	-11.54	85.70	10.17	70.2 Aqr
18 Mai 2024	23h17m16.11s	-06 33' 17.1"	9.698	10.004	1.2	69.6	5.6	-10.95	86.42	9.97	70.2 Aqr
19 Mai 2024	23h17m31.07s	-06 31' 56.7"	9.698	9.988	1.2	70.5	5.6	-10.37	87.14	9.76	70.3 Aqr
20 Mai 2024	23h17m45.73s	-06 30' 38.4"	9.698	9.973	1.2	71.4	5.7	-9.78	87.86	9.56	70.4 Aqr
21 Mai 2024	23h18m00.08s	-06 29' 22.0"	9.697	9.957	1.2	72.3	5.7	-9.19	88.58	9.35	70.5 Aqr
22 Mai 2024	23h18m14.13s	-06 28' 07.7"	9.697	9.941	1.2	73.2	5.7	-8.61	89.30	9.14	70.6 Aqr
23 Mai 2024	23h18m27.88s	-06 26' 55.4"	9.697	9.925	1.2	74.1	5.8	-8.02	90.02	8.93	70.7 Aqr
24 Mai 2024	23h18m41.31s	-06 25' 45.1"	9.696	9.909	1.2	75.0	5.8	-7.43	90.74	8.72	70.8 Aqr
25 Mai 2024	23h18m54.44s	-06 24' 36.9"	9.696	9.893	1.2	75.9	5.8	-6.84	91.46	8.51	70.9 Aqr
26 Mai 2024	23h19m07.24s	-06 23' 30.7"	9.696	9.877	1.2	76.8	5.8	-6.25	92.18	8.29	71.0 Aqr
27 Mai 2024	23h19m19.73s	-06 22' 26.6"	9.696	9.860	1.2	77.7	5.9	-5.66	92.90	8.07	71.1 Aqr

EPHEMERIDE 2024 – Saturn

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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28 Mai 2024	23h19m31.90s	-06 21' 24.6"	9.695	9.844	1.2	78.6	5.9	-5.07	93.62	7.85	71.3 Aqr
29 Mai 2024	23h19m43.75s	-06 20' 24.8"	9.695	9.828	1.2	79.5	5.9	-4.48	94.34	7.63	71.4 Aqr
30 Mai 2024	23h19m55.27s	-06 19' 27.1"	9.695	9.811	1.2	80.4	5.9	-3.90	95.07	7.41	71.6 Aqr
31 Mai 2024	23h20m06.46s	-06 18' 31.5"	9.694	9.795	1.2	81.4	5.9	-3.31	95.79	7.18	71.7 Aqr
1 Jun 2024	23h20m17.32s	-06 17' 38.1"	9.694	9.778	1.2	82.3	5.9	-2.72	96.52	6.95	71.9 Aqr
2 Jun 2024	23h20m27.84s	-06 16' 46.9"	9.694	9.762	1.2	83.2	6.0	-2.13	97.25	6.73	72.1 Aqr
3 Jun 2024	23h20m38.03s	-06 15' 57.9"	9.694	9.745	1.2	84.1	6.0	-1.54	97.98	6.49	72.3 Aqr
4 Jun 2024	23h20m47.87s	-06 15' 11.2"	9.693	9.729	1.2	85.0	6.0	-0.96	98.72	6.26	72.5 Aqr
5 Jun 2024	23h20m57.38s	-06 14' 26.7"	9.693	9.712	1.2	85.9	6.0	-0.37	99.45	6.03	72.7 Aqr
6 Jun 2024	23h21m06.53s	-06 13' 44.4"	9.693	9.696	1.2	86.8	6.0	0.21	100.19	5.79	73.0 Aqr
7 Jun 2024	23h21m15.34s	-06 13' 04.4"	9.692	9.679	1.2	87.8	6.0	0.80	100.93	5.55	73.2 Aqr
8 Jun 2024	23h21m23.80s	-06 12' 26.7"	9.692	9.662	1.2	88.7	6.0	1.38	101.68	5.32	73.5 Aqr
9 Jun 2024	23h21m31.91s	-06 11' 51.3"	9.692	9.646	1.1	89.6	6.0	1.96	102.43	5.08	73.9 Aqr
10 Jun 2024	23h21m39.67s	-06 11' 18.1"	9.692	9.629	1.1	90.5	6.0	2.54	103.18	4.84	74.2 Aqr
11 Jun 2024	23h21m47.07s	-06 10' 47.3"	9.691	9.612	1.1	91.4	6.0	3.12	103.93	4.60	74.6 Aqr
12 Jun 2024	23h21m54.11s	-06 10' 18.8"	9.691	9.596	1.1	92.4	6.0	3.70	104.69	4.36	75.0 Aqr
13 Jun 2024	23h22m00.80s	-06 09' 52.6"	9.691	9.579	1.1	93.3	6.0	4.27	105.45	4.11	75.5 Aqr
14 Jun 2024	23h22m07.13s	-06 09' 28.7"	9.690	9.562	1.1	94.2	6.0	4.85	106.21	3.87	76.1 Aqr
15 Jun 2024	23h22m13.10s	-06 09' 07.1"	9.690	9.546	1.1	95.2	6.0	5.42	106.98	3.63	76.7 Aqr
16 Jun 2024	23h22m18.71s	-06 08' 47.9"	9.690	9.529	1.1	96.1	6.0	5.99	107.75	3.39	77.4 Aqr
17 Jun 2024	23h22m23.96s	-06 08' 31.0"	9.689	9.513	1.1	97.0	6.0	6.56	108.53	3.14	78.3 Aqr
18 Jun 2024	23h22m28.85s	-06 08' 16.4"	9.689	9.496	1.1	98.0	6.0	7.13	109.31	2.90	79.2 Aqr
19 Jun 2024	23h22m33.37s	-06 08' 04.1"	9.689	9.480	1.1	98.9	5.9	7.69	110.09	2.66	80.3 Aqr
20 Jun 2024	23h22m37.53s	-06 07' 54.2"	9.689	9.463	1.1	99.8	5.9	8.25	110.88	2.42	81.7 Aqr
21 Jun 2024	23h22m41.33s	-06 07' 46.6"	9.688	9.447	1.1	100.8	5.9	8.81	111.68	2.18	83.4 Aqr
22 Jun 2024	23h22m44.76s	-06 07' 41.3"	9.688	9.431	1.1	101.7	5.9	9.37	112.48	1.94	85.4 Aqr
23 Jun 2024	23h22m47.83s	-06 07' 38.4"	9.688	9.414	1.1	102.6	5.9	9.92	113.28	1.71	88.1 Aqr
24 Jun 2024	23h22m50.53s	-06 07' 37.8"	9.687	9.398	1.1	103.6	5.9	10.47	114.09	1.48	91.5 Aqr
25 Jun 2024	23h22m52.86s	-06 07' 39.6"	9.687	9.382	1.1	104.5	5.8	11.02	114.91	1.25	96.3 Aqr
26 Jun 2024	23h22m54.82s	-06 07' 43.7"	9.687	9.366	1.1	105.5	5.8	11.56	115.73	1.04	103.0 Aqr
27 Jun 2024	23h22m56.42s	-06 07' 50.1"	9.687	9.350	1.1	106.4	5.8	12.10	116.56	0.85	113.0 Aqr
28 Jun 2024	23h22m57.64s	-06 07' 58.9"	9.686	9.334	1.1	107.4	5.7	12.64	117.39	0.70	128.0 Aqr
29 Jun 2024	23h22m58.50s	-06 08' 10.0"	9.686	9.318	1.1	108.3	5.7	13.17	118.23	0.62	148.9 Aqr
30 Jun 2024	23h22m58.98s	-06 08' 23.5"	9.686	9.302	1.1	109.3	5.7	13.70	119.08	0.63	172.2 Aqr
1 Jul 2024	23h22m59.10s	-06 08' 39.3"	9.685	9.287	1.1	110.2	5.7	14.23	119.93	0.74	191.6 Aqr
2 Jul 2024	23h22m58.84s	-06 08' 57.4"	9.685	9.271	1.0	111.2	5.6	14.75	120.79	0.90	204.9 Aqr
3 Jul 2024	23h22m58.21s	-06 09' 17.9"	9.685	9.256	1.0	112.1	5.6	15.26	121.65	1.10	213.8 Aqr
4 Jul 2024	23h22m57.21s	-06 09' 40.8"	9.684	9.240	1.0	113.1	5.5	15.77	122.53	1.32	219.9 Aqr
5 Jul 2024	23h22m55.84s	-06 10' 05.9"	9.684	9.225	1.0	114.1	5.5	16.28	123.41	1.55	224.2 Aqr
6 Jul 2024	23h22m54.10s	-06 10' 33.4"	9.684	9.210	1.0	115.0	5.5	16.78	124.29	1.78	227.4 Aqr
7 Jul 2024	23h22m51.99s	-06 11' 03.1"	9.684	9.195	1.0	116.0	5.4	17.28	125.19	2.02	229.8 Aqr
8 Jul 2024	23h22m49.51s	-06 11' 35.2"	9.683	9.180	1.0	117.0	5.4	17.77	126.09	2.25	231.7 Aqr
9 Jul 2024	23h22m46.67s	-06 12' 09.5"	9.683	9.165	1.0	117.9	5.3	18.26	127.00	2.49	233.3 Aqr
10 Jul 2024	23h22m43.46s	-06 12' 46.0"	9.683	9.150	1.0	118.9	5.3	18.74	127.92	2.73	234.6 Aqr
11 Jul 2024	23h22m39.89s	-06 13' 24.8"	9.682	9.136	1.0	119.9	5.2	19.21	128.84	2.97	235.7 Aqr
12 Jul 2024	23h22m35.96s	-06 14' 05.9"	9.682	9.122	1.0	120.8	5.2	19.68	129.77	3.21	236.6 Aqr
13 Jul 2024	23h22m31.67s	-06 14' 49.1"	9.682	9.107	1.0	121.8	5.1	20.14	130.71	3.45	237.4 Aqr
14 Jul 2024	23h22m27.03s	-06 15' 34.5"	9.682	9.093	1.0	122.8	5.1	20.60	131.66	3.68	238.0 Aqr
15 Jul 2024	23h22m22.03s	-06 16' 22.1"	9.681	9.079	1.0	123.8	5.0	21.04	132.62	3.92	238.6 Aqr
16 Jul 2024	23h22m16.69s	-06 17' 11.8"	9.681	9.066	1.0	124.7	4.9	21.49	133.59	4.15	239.2 Aqr
17 Jul 2024	23h22m10.99s	-06 18' 03.6"	9.681	9.052	1.0	125.7	4.9	21.92	134.56	4.38	239.7 Aqr
18 Jul 2024	23h22m04.95s	-06 18' 57.5"	9.680	9.039	0.9	126.7	4.8	22.35	135.54	4.61	240.1 Aqr
19 Jul 2024	23h21m58.56s	-06 19' 53.4"	9.680	9.025	0.9	127.7	4.8	22.77	136.53	4.84	240.5 Aqr
20 Jul 2024	23h21m51.83s	-06 20' 51.4"	9.680	9.012	0.9	128.7	4.7	23.18	137.53	5.07	240.8 Aqr
21 Jul 2024	23h21m44.77s	-06 21' 51.5"	9.679	8.9994	0.9	129.7	4.6	23.58	138.54	5.29	241.1 Aqr
22 Jul 2024	23h21m37.37s	-06 22' 53.5"	9.679	8.9866	0.9	130.6	4.6	23.98	139.56	5.51	241.4 Aqr
23 Jul 2024	23h21m29.64s	-06 23' 57.5"	9.679	8.9741	0.9	131.6	4.5	24.36	140.58	5.73	241.7 Aqr
24 Jul 2024	23h21m21.58s	-06 25' 03.4"	9.679	8.9617	0.9	132.6	4.4	24.74	141.62	5.95	242.0 Aqr
25 Jul 2024	23h21m13.20s	-06 26' 11.3"	9.678	8.9496	0.9	133.6	4.4	25.11	142.66	6.17	242.2 Aqr
26 Jul 2024	23h21m04.49s	-06 27' 21.1"	9.678	8.9376	0.9	134.6	4.3	25.47	143.71	6.38	242.4 Aqr
27 Jul 2024	23h20m55.46s	-06 28' 32.7"	9.678	8.9259	0.9	135.6	4.2	25.82	144.77	6.59	242.6 Aqr
28 Jul 2024	23h20m46.12s	-06 29' 46.2"	9.677	8.9143	0.9	136.6	4.1	26.16	145.84	6.80	242.8 Aqr
29 Jul 2024	23h20m36.46s	-06 31' 01.5"	9.677	8.9030	0.9	137.6	4.1	26.49	146.91	7.01	243.0 Aqr
30 Jul 2024	23h20m26.49s	-06 32' 18.6"	9.677	8.8919	0.9	138.6	4.0	26.81	148.00	7.21	243.2 Aqr
31 Jul 2024	23h20m16.22s	-06 33' 37.4"	9.677	8.8810	0.9	139.6	3.9	27.12	149.09	7.41	243.3 Aqr
1 Aug 2024	23h20m05.65s	-06 34' 58.0"	9.676	8.8703	0.8	140.6	3.8	27.42	150.19	7.61	243.5 Aqr
2 Aug 2024	23h19m54.79s	-06 36' 20.2"	9.676	8.8598	0.8	141.6	3.7	27.71	151.30	7.80	243.6 Aqr
3 Aug 2024	23h19m43.64s	-06 37' 44.1"	9.676	8.8496	0.8	142.6	3.7	27.99	152.42	7.99	243.8 Aqr
4 Aug 2024	23h19m32.20s	-06 39' 09.6"	9.675	8.8396	0.8	143.6	3.6	28.25	153.54	8.18	243.9 Aqr
5 Aug 2024	23h19m20.48s	-06 40' 36.6"	9.675	8.8298	0.8	144.6	3.5	28.51	154.67	8.36	244.0 Aqr
6 Aug 2024	23h19m08.49s	-06 42' 05.2"	9.675	8.8203	0.8	145.7	3.4	28.75	155.81	8.54	244.1 Aqr
7 Aug 2024	23h18m56.23s	-06 43' 35.2"	9.674	8.8110	0.8	146.7	3.3	28.98	156.96	8.72	244.2 Aqr
8 Aug 2024	23h18m43.72s	-06 45' 06.7"	9.674	8.8020	0.8	147.7	3.2	29.20	158.11	8.88	244.4 Aqr
9 Aug 2024	23h18m30.94s	-06 46' 39.5"	9.674	8.7932	0.8	148.7	3.1	29.41	159.27	9.05	244.5 Aqr

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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10 Aug 2024	23h18m17.93s	-06 48' 13.7"	9.674	8.7847	0.8	149.7	3.0	29.61	160.44	9.21	244.6 Aqr
11 Aug 2024	23h18m04.66s	-06 49' 49.1"	9.673	8.7764	0.8	150.7	2.9	29.79	161.61	9.37	244.7 Aqr
12 Aug 2024	23h17m51.17s	-06 51' 25.8"	9.673	8.7684	0.8	151.7	2.8	29.96	162.78	9.52	244.8 Aqr
13 Aug 2024	23h17m37.45s	-06 53' 03.6"	9.673	8.7607	0.8	152.8	2.7	30.12	163.97	9.66	244.9 Aqr
14 Aug 2024	23h17m23.50s	-06 54' 42.6"	9.672	8.7532	0.7	153.8	2.7	30.26	165.16	9.80	245.0 Aqr
15 Aug 2024	23h17m09.34s	-06 56' 22.7"	9.672	8.7460	0.7	154.8	2.6	30.39	166.35	9.94	245.0 Aqr
16 Aug 2024	23h16m54.98s	-06 58' 03.8"	9.672	8.7390	0.7	155.8	2.5	30.51	167.54	10.07	245.1 Aqr
17 Aug 2024	23h16m40.42s	-06 59' 45.9"	9.671	8.7323	0.7	156.9	2.4	30.61	168.75	10.20	245.2 Aqr
18 Aug 2024	23h16m25.66s	-07 01' 28.9"	9.671	8.7259	0.7	157.9	2.3	30.70	169.95	10.32	245.3 Aqr
19 Aug 2024	23h16m10.72s	-07 03' 12.8"	9.671	8.7198	0.7	158.9	2.2	30.78	171.16	10.44	245.4 Aqr
20 Aug 2024	23h15m55.59s	-07 04' 57.6"	9.671	8.7140	0.7	159.9	2.1	30.85	172.37	10.55	245.5 Aqr
21 Aug 2024	23h15m40.30s	-07 06' 43.1"	9.670	8.7084	0.7	161.0	2.0	30.89	173.58	10.66	245.5 Aqr
22 Aug 2024	23h15m24.84s	-07 08' 29.4"	9.670	8.7031	0.7	162.0	1.9	30.93	174.79	10.76	245.6 Aqr
23 Aug 2024	23h15m09.23s	-07 10' 16.4"	9.670	8.6981	0.7	163.0	1.8	30.95	176.01	10.86	245.7 Aqr
24 Aug 2024	23h14m53.46s	-07 12' 04.0"	9.669	8.6934	0.7	164.0	1.6	30.96	177.23	10.95	245.8 Aqr
25 Aug 2024	23h14m37.55s	-07 13' 52.2"	9.669	8.6890	0.7	165.1	1.5	30.96	178.45	11.04	245.8 Aqr
26 Aug 2024	23h14m21.51s	-07 15' 41.0"	9.669	8.6848	0.7	166.1	1.4	30.94	179.66	11.12	245.9 Aqr
27 Aug 2024	23h14m05.34s	-07 17' 30.2"	9.669	8.6810	0.7	167.1	1.3	30.90	180.88	11.20	246.0 Aqr
28 Aug 2024	23h13m49.05s	-07 19' 19.9"	9.668	8.6774	0.6	168.1	1.2	30.86	182.10	11.27	246.0 Aqr
29 Aug 2024	23h13m32.65s	-07 21' 09.9"	9.668	8.6741	0.6	169.1	1.1	30.79	183.31	11.33	246.1 Aqr
30 Aug 2024	23h13m16.15s	-07 23' 00.3"	9.668	8.6712	0.6	170.2	1.0	30.72	184.53	11.39	246.2 Aqr
31 Aug 2024	23h12m59.55s	-07 24' 50.9"	9.667	8.6685	0.6	171.2	0.9	30.63	185.74	11.44	246.2 Aqr
1 Sep 2024	23h12m42.87s	-07 26' 41.7"	9.667	8.6662	0.6	172.2	0.8	30.53	186.95	11.49	246.3 Aqr
2 Sep 2024	23h12m26.12s	-07 28' 32.7"	9.667	8.6641	0.6	173.2	0.7	30.41	188.16	11.53	246.4 Aqr
3 Sep 2024	23h12m09.30s	-07 30' 23.7"	9.666	8.6623	0.6	174.2	0.6	30.28	189.36	11.56	246.4 Aqr
4 Sep 2024	23h11m52.42s	-07 32' 14.8"	9.666	8.6609	0.6	175.1	0.5	30.14	190.56	11.59	246.5 Aqr
5 Sep 2024	23h11m35.50s	-07 34' 05.8"	9.666	8.6597	0.6	176.0	0.4	29.98	191.76	11.61	246.6 Aqr
6 Sep 2024	23h11m18.54s	-07 35' 56.7"	9.666	8.6589	0.6	176.8	0.3	29.81	192.95	11.63	246.6 Aqr
7 Sep 2024	23h11m01.56s	-07 37' 47.4"	9.665	8.6583	0.6	177.5	0.3	29.63	194.14	11.63	246.7 Aqr
8 Sep 2024	23h10m44.55s	-07 39' 37.9"	9.665	8.6581	0.6	177.8	0.2	29.43	195.32	11.64	246.8 Aqr
9 Sep 2024	23h10m27.53s	-07 41' 28.2"	9.665	8.6581	0.6	177.6	0.2	29.22	196.50	11.63	246.8 Aqr
10 Sep 2024	23h10m10.52s	-07 43' 18.0"	9.664	8.6585	0.6	177.1	0.3	29.00	197.67	11.62	246.9 Aqr
11 Sep 2024	23h09m53.51s	-07 45' 07.5"	9.664	8.6592	0.6	176.3	0.4	28.77	198.84	11.60	247.0 Aqr
12 Sep 2024	23h09m36.52s	-07 46' 56.5"	9.664	8.6601	0.6	175.4	0.5	28.52	200.00	11.58	247.0 Aqr
13 Sep 2024	23h09m19.56s	-07 48' 45.0"	9.663	8.6614	0.6	174.5	0.6	28.26	201.15	11.55	247.1 Aqr
14 Sep 2024	23h09m02.63s	-07 50' 32.9"	9.663	8.6630	0.6	173.5	0.7	27.99	202.30	11.52	247.1 Aqr
15 Sep 2024	23h08m45.75s	-07 52' 20.2"	9.663	8.6649	0.6	172.5	0.8	27.71	203.44	11.47	247.2 Aqr
16 Sep 2024	23h08m28.93s	-07 54' 06.7"	9.663	8.6670	0.6	171.5	0.9	27.42	204.57	11.43	247.3 Aqr
17 Sep 2024	23h08m12.16s	-07 55' 52.6"	9.662	8.6695	0.6	170.5	1.0	27.11	205.70	11.37	247.3 Aqr
18 Sep 2024	23h07m55.47s	-07 57' 37.7"	9.662	8.6723	0.6	169.5	1.1	26.80	206.82	11.32	247.4 Aqr
19 Sep 2024	23h07m38.85s	-07 59' 21.9"	9.662	8.6754	0.6	168.4	1.2	26.47	207.93	11.25	247.5 Aqr
20 Sep 2024	23h07m22.33s	-08 01' 05.2"	9.661	8.6788	0.6	167.4	1.3	26.13	209.03	11.18	247.5 Aqr
21 Sep 2024	23h07m05.89s	-08 02' 47.7"	9.661	8.6824	0.6	166.4	1.4	25.79	210.13	11.11	247.6 Aqr
22 Sep 2024	23h06m49.56s	-08 04' 29.1"	9.661	8.6864	0.6	165.3	1.5	25.43	211.22	11.03	247.7 Aqr
23 Sep 2024	23h06m33.35s	-08 06' 09.5"	9.660	8.6906	0.6	164.3	1.6	25.06	212.30	10.94	247.7 Aqr
24 Sep 2024	23h06m17.25s	-08 07' 48.8"	9.660	8.6952	0.6	163.3	1.7	24.68	213.37	10.85	247.8 Aqr
25 Sep 2024	23h06m01.29s	-08 09' 27.0"	9.660	8.7000	0.6	162.2	1.8	24.29	214.43	10.75	247.9 Aqr
26 Sep 2024	23h05m45.46s	-08 11' 04.0"	9.660	8.7052	0.6	161.2	1.9	23.90	215.48	10.65	247.9 Aqr
27 Sep 2024	23h05m29.78s	-08 12' 39.8"	9.659	8.7106	0.6	160.1	2.0	23.49	216.53	10.54	248.0 Aqr
28 Sep 2024	23h05m14.26s	-08 14' 14.3"	9.659	8.7163	0.6	159.1	2.1	23.08	217.57	10.42	248.1 Aqr
29 Sep 2024	23h04m58.90s	-08 15' 47.4"	9.659	8.7223	0.7	158.0	2.2	22.65	218.60	10.30	248.1 Aqr
30 Sep 2024	23h04m43.71s	-08 17' 19.2"	9.658	8.7286	0.7	157.0	2.3	22.22	219.62	10.18	248.2 Aqr
1 Okt 2024	23h04m28.71s	-08 18' 49.5"	9.658	8.7352	0.7	155.9	2.4	21.78	220.64	10.04	248.3 Aqr
2 Okt 2024	23h04m13.90s	-08 20' 18.3"	9.658	8.7420	0.7	154.9	2.5	21.34	221.64	9.91	248.4 Aqr
3 Okt 2024	23h03m59.28s	-08 21' 45.6"	9.657	8.7491	0.7	153.9	2.6	20.88	222.64	9.76	248.5 Aqr
4 Okt 2024	23h03m44.88s	-08 23' 11.3"	9.657	8.7565	0.7	152.8	2.7	20.42	223.63	9.61	248.5 Aqr
5 Okt 2024	23h03m30.68s	-08 24' 35.3"	9.657	8.7642	0.7	151.8	2.8	19.95	224.61	9.46	248.6 Aqr
6 Okt 2024	23h03m16.72s	-08 25' 57.7"	9.657	8.7721	0.7	150.7	2.9	19.47	225.59	9.30	248.7 Aqr
7 Okt 2024	23h03m02.98s	-08 27' 18.4"	9.656	8.7803	0.7	149.7	3.0	18.99	226.55	9.14	248.8 Aqr
8 Okt 2024	23h02m49.48s	-08 28' 37.3"	9.656	8.7888	0.7	148.6	3.1	18.50	227.51	8.97	248.9 Aqr
9 Okt 2024	23h02m36.22s	-08 29' 54.4"	9.656	8.7975	0.7	147.6	3.2	18.00	228.46	8.79	249.0 Aqr
10 Okt 2024	23h02m23.22s	-08 31' 09.7"	9.655	8.8065	0.7	146.5	3.3	17.50	229.40	8.62	249.1 Aqr
11 Okt 2024	23h02m10.48s	-08 32' 23.1"	9.655	8.8157	0.7	145.5	3.4	17.00	230.34	8.43	249.2 Aqr
12 Okt 2024	23h01m58.00s	-08 33' 34.6"	9.655	8.8252	0.7	144.5	3.4	16.48	231.27	8.25	249.3 Aqr
13 Okt 2024	23h01m45.79s	-08 34' 44.1"	9.655	8.8349	0.7	143.4	3.5	15.96	232.19	8.06	249.4 Aqr
14 Okt 2024	23h01m33.87s	-08 35' 51.7"	9.654	8.8449	0.7	142.4	3.6	15.44	233.10	7.86	249.5 Aqr
15 Okt 2024	23h01m22.22s	-08 36' 57.3"	9.654	8.8551	0.7	141.3	3.7	14.91	234.01	7.66	249.6 Aqr
16 Okt 2024	23h01m10.87s	-08 38' 00.9"	9.654	8.8656	0.7	140.3	3.8	14.38	234.91	7.46	249.7 Aqr
17 Okt 2024	23h00m59.81s	-08 39' 02.4"	9.653	8.8762	0.7	139.3	3.9	13.84	235.81	7.26	249.9 Aqr
18 Okt 2024	23h00m49.04s	-08 40' 01.9"	9.653	8.8871	0.7	138.2	3.9	13.30	236.69	7.05	250.0 Aqr
19 Okt 2024	23h00m38.59s	-08 40' 59.2"	9.653	8.8982	0.8	137.2	4.0	12.75	237.57	6.84	250.1 Aqr
20 Okt 2024	23h00m28.44s	-08 41' 54.4"	9.652	8.9096	0.8	136.2	4.1	12.20	238.45	6.62	250.3 Aqr
21 Okt 2024	23h00m18.61s	-08 42' 47.5"	9.652	8.9211	0.8	135.1	4.2	11.65	239.32	6.41	250.5 Aqr
22 Okt 2024	23h00m09.10s	-08 43' 38.4"	9.652	8.9329	0.8	134.1	4.2	11.09	240.18	6.18	250.6 Aqr

EPHEMERIDE 2024 – Saturn

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA
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23 Okt 2024	22h59m59.91s	-08 44' 27.1"	9.652	8.9449	0.8	133.0	4.3	10.53	241.04	5.96	250.8 Aqr
24 Okt 2024	22h59m51.05s	-08 45' 13.6"	9.651	8.9571	0.8	132.0	4.4	9.96	241.89	5.73	251.0 Aqr
25 Okt 2024	22h59m42.53s	-08 45' 57.8"	9.651	8.9695	0.8	131.0	4.5	9.39	242.74	5.50	251.2 Aqr
26 Okt 2024	22h59m34.35s	-08 46' 39.8"	9.651	8.9821	0.8	130.0	4.5	8.82	243.58	5.27	251.4 Aqr
27 Okt 2024	22h59m26.52s	-08 47' 19.5"	9.650	8.9949	0.8	128.9	4.6	8.25	244.42	5.03	251.7 Aqr
28 Okt 2024	22h59m19.03s	-08 47' 56.8"	9.650	9.008	0.8	127.9	4.7	7.67	245.25	4.79	252.0 Aqr
29 Okt 2024	22h59m11.90s	-08 48' 31.8"	9.650	9.021	0.8	126.9	4.7	7.10	246.08	4.55	252.3 Aqr
30 Okt 2024	22h59m05.12s	-08 49' 04.5"	9.649	9.034	0.8	125.8	4.8	6.52	246.90	4.31	252.6 Aqr
31 Okt 2024	22h58m58.71s	-08 49' 34.8"	9.649	9.048	0.8	124.8	4.8	5.93	247.72	4.06	253.0 Aqr
1 Nov 2024	22h58m52.66s	-08 50' 02.7"	9.649	9.062	0.8	123.8	4.9	5.35	248.53	3.81	253.4 Aqr
2 Nov 2024	22h58m46.98s	-08 50' 28.1"	9.649	9.075	0.8	122.8	5.0	4.76	249.34	3.56	253.9 Aqr
3 Nov 2024	22h58m41.67s	-08 50' 51.2"	9.648	9.089	0.8	121.7	5.0	4.17	250.15	3.31	254.5 Aqr
4 Nov 2024	22h58m36.74s	-08 51' 11.8"	9.648	9.104	0.8	120.7	5.1	3.58	250.95	3.05	255.1 Aqr
5 Nov 2024	22h58m32.19s	-08 51' 30.0"	9.648	9.118	0.8	119.7	5.1	2.99	251.75	2.80	255.9 Aqr
6 Nov 2024	22h58m28.01s	-08 51' 45.7"	9.647	9.132	0.8	118.7	5.2	2.40	252.55	2.54	256.9 Aqr
7 Nov 2024	22h58m24.22s	-08 51' 59.0"	9.647	9.147	0.9	117.7	5.2	1.81	253.34	2.29	258.0 Aqr
8 Nov 2024	22h58m20.81s	-08 52' 09.8"	9.647	9.162	0.9	116.6	5.3	1.21	254.13	2.03	259.4 Aqr
9 Nov 2024	22h58m17.79s	-08 52' 18.1"	9.646	9.177	0.9	115.6	5.3	0.62	254.92	1.77	261.3 Aqr
10 Nov 2024	22h58m15.16s	-08 52' 23.9"	9.646	9.192	0.9	114.6	5.4	0.02	255.70	1.52	263.7 Aqr
11 Nov 2024	22h58m12.92s	-08 52' 27.3"	9.646	9.207	0.9	113.6	5.4	-0.57	256.48	1.27	267.1 Aqr
12 Nov 2024	22h58m11.07s	-08 52' 28.2"	9.646	9.222	0.9	112.6	5.4	-1.17	257.26	1.02	272.2 Aqr
13 Nov 2024	22h58m09.60s	-08 52' 26.6"	9.645	9.237	0.9	111.6	5.5	-1.77	258.04	0.79	280.4 Aqr
14 Nov 2024	22h58m08.53s	-08 52' 22.6"	9.645	9.253	0.9	110.6	5.5	-2.36	258.82	0.59	294.6 Aqr
15 Nov 2024	22h58m07.85s	-08 52' 16.0"	9.645	9.268	0.9	109.6	5.5	-2.96	259.59	0.45	320.2 Aqr
16 Nov 2024	22h58m07.57s	-08 52' 07.1"	9.644	9.284	0.9	108.6	5.6	-3.56	260.36	0.45	354.2 Aqr
17 Nov 2024	22h58m07.67s	-08 51' 55.6"	9.644	9.300	0.9	107.5	5.6	-4.15	261.13	0.59	19.8 Aqr
18 Nov 2024	22h58m08.17s	-08 51' 41.7"	9.644	9.316	0.9	106.5	5.6	-4.75	261.90	0.79	34.2 Aqr
19 Nov 2024	22h58m09.06s	-08 51' 25.4"	9.643	9.331	0.9	105.5	5.7	-5.35	262.67	1.03	42.4 Aqr
20 Nov 2024	22h58m10.35s	-08 51' 06.6"	9.643	9.347	0.9	104.5	5.7	-5.94	263.44	1.27	47.4 Aqr
21 Nov 2024	22h58m12.03s	-08 50' 45.3"	9.643	9.364	0.9	103.5	5.7	-6.54	264.21	1.53	50.9 Aqr
22 Nov 2024	22h58m14.10s	-08 50' 21.6"	9.643	9.380	0.9	102.5	5.7	-7.13	264.97	1.78	53.3 Aqr
23 Nov 2024	22h58m16.57s	-08 49' 55.4"	9.642	9.396	0.9	101.5	5.8	-7.73	265.74	2.04	55.2 Aqr
24 Nov 2024	22h58m19.44s	-08 49' 26.8"	9.642	9.412	0.9	100.5	5.8	-8.32	266.51	2.30	56.6 Aqr
25 Nov 2024	22h58m22.70s	-08 48' 55.7"	9.642	9.429	0.9	99.6	5.8	-8.91	267.27	2.57	57.7 Aqr
26 Nov 2024	22h58m26.36s	-08 48' 22.2"	9.641	9.445	0.9	98.6	5.8	-9.50	268.04	2.83	58.7 Aqr
27 Nov 2024	22h58m30.41s	-08 47' 46.2"	9.641	9.461	1.0	97.6	5.8	-10.09	268.80	3.09	59.4 Aqr
28 Nov 2024	22h58m34.85s	-08 47' 07.9"	9.641	9.478	1.0	96.6	5.8	-10.68	269.57	3.35	60.1 Aqr
29 Nov 2024	22h58m39.69s	-08 46' 27.1"	9.640	9.494	1.0	95.6	5.8	-11.27	270.34	3.62	60.6 Aqr
30 Nov 2024	22h58m44.92s	-08 45' 43.9"	9.640	9.511	1.0	94.6	5.9	-11.85	271.11	3.88	61.1 Aqr
1 Dez 2024	22h58m50.54s	-08 44' 58.2"	9.640	9.527	1.0	93.6	5.9	-12.43	271.88	4.14	61.5 Aqr
2 Dez 2024	22h58m56.55s	-08 44' 10.2"	9.640	9.544	1.0	92.6	5.9	-13.01	272.65	4.40	61.9 Aqr
3 Dez 2024	22h59m02.95s	-08 43' 19.8"	9.639	9.560	1.0	91.6	5.9	-13.59	273.42	4.66	62.2 Aqr
4 Dez 2024	22h59m09.73s	-08 42' 27.1"	9.639	9.577	1.0	90.7	5.9	-14.17	274.19	4.92	62.5 Aqr
5 Dez 2024	22h59m16.91s	-08 41' 32.0"	9.639	9.594	1.0	89.7	5.9	-14.75	274.96	5.18	62.8 Aqr
6 Dez 2024	22h59m24.46s	-08 40' 34.5"	9.638	9.610	1.0	88.7	5.9	-15.32	275.74	5.44	63.0 Aqr
7 Dez 2024	22h59m32.39s	-08 39' 34.8"	9.638	9.627	1.0	87.7	5.9	-15.89	276.52	5.69	63.3 Aqr
8 Dez 2024	22h59m40.71s	-08 38' 32.7"	9.638	9.643	1.0	86.7	5.9	-16.46	277.30	5.94	63.5 Aqr
9 Dez 2024	22h59m49.40s	-08 37' 28.3"	9.637	9.660	1.0	85.8	5.8	-17.03	278.08	6.19	63.6 Aqr
10 Dez 2024	22h59m58.46s	-08 36' 21.7"	9.637	9.676	1.0	84.8	5.8	-17.59	278.87	6.44	63.8 Aqr
11 Dez 2024	23h00m07.89s	-08 35' 12.9"	9.637	9.693	1.0	83.8	5.8	-18.15	279.65	6.69	64.0 Aqr
12 Dez 2024	23h00m17.69s	-08 34' 01.8"	9.636	9.709	1.0	82.9	5.8	-18.71	280.45	6.94	64.1 Aqr
13 Dez 2024	23h00m27.85s	-08 32' 48.5"	9.636	9.726	1.0	81.9	5.8	-19.26	281.24	7.18	64.2 Aqr
14 Dez 2024	23h00m38.37s	-08 31' 33.0"	9.636	9.742	1.0	80.9	5.8	-19.81	282.04	7.42	64.4 Aqr
15 Dez 2024	23h00m49.26s	-08 30' 15.4"	9.636	9.758	1.0	79.9	5.8	-20.36	282.84	7.66	64.5 Aqr
16 Dez 2024	23h01m00.49s	-08 28' 55.6"	9.635	9.775	1.0	79.0	5.8	-20.91	283.64	7.90	64.6 Aqr
17 Dez 2024	23h01m12.08s	-08 27' 33.7"	9.635	9.791	1.0	78.0	5.7	-21.45	284.45	8.14	64.7 Aqr
18 Dez 2024	23h01m24.02s	-08 26' 09.7"	9.635	9.807	1.0	77.1	5.7	-21.99	285.26	8.37	64.8 Aqr
19 Dez 2024	23h01m36.31s	-08 24' 43.6"	9.634	9.823	1.0	76.1	5.7	-22.53	286.07	8.60	64.9 Aqr
20 Dez 2024	23h01m48.95s	-08 23' 15.4"	9.634	9.839	1.1	75.1	5.7	-23.06	286.89	8.83	65.0 Aqr
21 Dez 2024	23h02m01.92s	-08 21' 45.1"	9.634	9.855	1.1	74.2	5.6	-23.59	287.71	9.06	65.1 Aqr
22 Dez 2024	23h02m15.24s	-08 20' 12.8"	9.633	9.871	1.1	73.2	5.6	-24.11	288.54	9.29	65.1 Aqr
23 Dez 2024	23h02m28.89s	-08 18' 38.5"	9.633	9.887	1.1	72.3	5.6	-24.63	289.37	9.52	65.2 Aqr
24 Dez 2024	23h02m42.88s	-08 17' 02.2"	9.633	9.903	1.1	71.3	5.6	-25.15	290.21	9.74	65.3 Aqr
25 Dez 2024	23h02m57.19s	-08 15' 23.9"	9.633	9.919	1.1	70.4	5.5	-25.66	291.05	9.96	65.3 Aqr
26 Dez 2024	23h03m11.84s	-08 13' 43.6"	9.632	9.934	1.1	69.4	5.5	-26.17	291.90	10.18	65.4 Aqr
27 Dez 2024	23h03m26.81s	-08 12' 01.3"	9.632	9.950	1.1	68.5	5.4	-26.67	292.75	10.40	65.5 Aqr
28 Dez 2024	23h03m42.10s	-08 10' 17.2"	9.632	9.965	1.1	67.5	5.4	-27.17	293.61	10.61	65.5 Aqr
29 Dez 2024	23h03m57.70s	-08 08' 31.1"	9.631	9.980	1.1	66.6	5.4	-27.66	294.48	10.82	65.6 Aqr
30 Dez 2024	23h04m13.62s	-08 06' 43.1"	9.631	9.995	1.1	65.6	5.3	-28.15	295.35	11.03	65.6 Aqr
31 Dez 2024	23h04m29.85s	-08 04' 53.3"	9.631	10.010	1.1	64.7	5.3	-28.64	296.22	11.24	65.7 Aqr
1 Jan 2025	23h04m46.39s	-08 03' 01.7"	9.630	10.025	1.1	63.7	5.3	-29.12	297.10	11.44	65.7 Aqr