



Die Bahn des Planeten Uranus 2021

# EPHEMERIDE 2021 – URANUS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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1 Jan 2021	02h17m19.94s	+13 15' 41.9"	19.772	19.321	5.7	116.0	2.6	16.54	270.67	1.72	252.8	Ari
2 Jan 2021	02h17m17.33s	+13 15' 30.5"	19.772	19.337	5.7	115.0	2.6	15.92	271.45	1.60	252.9	Ari
3 Jan 2021	02h17m14.92s	+13 15' 20.1"	19.772	19.352	5.7	114.0	2.6	15.31	272.22	1.47	253.1	Ari
4 Jan 2021	02h17m12.70s	+13 15' 10.7"	19.772	19.368	5.7	112.9	2.6	14.69	273.00	1.34	253.3	Ari
5 Jan 2021	02h17m10.68s	+13 15' 02.4"	19.772	19.384	5.7	111.9	2.6	14.08	273.77	1.22	253.5	Ari
6 Jan 2021	02h17m08.85s	+13 14' 55.0"	19.772	19.400	5.7	110.9	2.7	13.47	274.54	1.09	253.8	Ari
7 Jan 2021	02h17m07.22s	+13 14' 48.6"	19.771	19.416	5.7	109.8	2.7	12.86	275.31	0.96	254.2	Ari
8 Jan 2021	02h17m05.80s	+13 14' 43.3"	19.771	19.432	5.7	108.8	2.7	12.25	276.07	0.83	254.8	Ari
9 Jan 2021	02h17m04.57s	+13 14' 38.9"	19.771	19.448	5.7	107.8	2.7	11.64	276.84	0.70	255.5	Ari
10 Jan 2021	02h17m03.55s	+13 14' 35.6"	19.771	19.465	5.7	106.8	2.7	11.03	277.60	0.57	256.6	Ari
11 Jan 2021	02h17m02.73s	+13 14' 33.4"	19.771	19.481	5.7	105.7	2.7	10.43	278.36	0.43	258.3	Ari
12 Jan 2021	02h17m02.11s	+13 14' 32.2"	19.771	19.498	5.7	104.7	2.8	9.83	279.12	0.30	261.5	Ari
13 Jan 2021	02h17m01.70s	+13 14' 32.0"	19.771	19.514	5.7	103.7	2.8	9.22	279.89	0.17	269.6	Ari
14 Jan 2021	02h17m01.49s	+13 14' 32.9"	19.770	19.531	5.7	102.7	2.8	8.63	280.65	0.06	311.3	Ari
15 Jan 2021	02h17m01.49s	+13 14' 34.8"	19.770	19.548	5.7	101.7	2.8	8.03	281.40	0.12	42.1	Ari
16 Jan 2021	02h17m01.69s	+13 14' 37.7"	19.770	19.565	5.7	100.6	2.8	7.44	282.16	0.24	57.5	Ari
17 Jan 2021	02h17m02.10s	+13 14' 41.7"	19.770	19.582	5.7	99.6	2.8	6.85	282.92	0.37	62.3	Ari
18 Jan 2021	02h17m02.71s	+13 14' 46.8"	19.770	19.599	5.8	98.6	2.8	6.26	283.68	0.50	64.5	Ari
19 Jan 2021	02h17m03.53s	+13 14' 52.9"	19.770	19.616	5.8	97.6	2.8	5.67	284.44	0.64	65.9	Ari
20 Jan 2021	02h17m04.55s	+13 15' 00.0"	19.770	19.633	5.8	96.6	2.8	5.09	285.20	0.77	66.7	Ari
21 Jan 2021	02h17m05.78s	+13 15' 08.2"	19.770	19.650	5.8	95.6	2.8	4.51	285.96	0.90	67.4	Ari
22 Jan 2021	02h17m07.21s	+13 15' 17.4"	19.769	19.667	5.8	94.6	2.8	3.93	286.72	1.03	67.8	Ari
23 Jan 2021	02h17m08.85s	+13 15' 27.7"	19.769	19.684	5.8	93.6	2.8	3.35	287.48	1.17	68.2	Ari
24 Jan 2021	02h17m10.68s	+13 15' 39.0"	19.769	19.701	5.8	92.5	2.9	2.78	288.24	1.30	68.5	Ari
25 Jan 2021	02h17m12.73s	+13 15' 51.3"	19.769	19.718	5.8	91.5	2.9	2.22	289.01	1.43	68.7	Ari
26 Jan 2021	02h17m14.97s	+13 16' 04.6"	19.769	19.735	5.8	90.5	2.9	1.65	289.77	1.56	68.9	Ari
27 Jan 2021	02h17m17.41s	+13 16' 18.9"	19.769	19.752	5.8	89.5	2.9	1.09	290.54	1.69	69.1	Ari
28 Jan 2021	02h17m20.06s	+13 16' 34.3"	19.769	19.770	5.8	88.5	2.9	0.53	291.30	1.82	69.2	Ari
29 Jan 2021	02h17m22.91s	+13 16' 50.7"	19.768	19.787	5.8	87.5	2.9	-0.02	292.07	1.95	69.3	Ari
30 Jan 2021	02h17m25.95s	+13 17' 08.0"	19.768	19.804	5.8	86.5	2.9	-0.57	292.84	2.08	69.4	Ari
31 Jan 2021	02h17m29.20s	+13 17' 26.4"	19.768	19.821	5.8	85.5	2.8	-1.12	293.61	2.21	69.5	Ari
1 Feb 2021	02h17m32.64s	+13 17' 45.8"	19.768	19.838	5.8	84.5	2.8	-1.66	294.39	2.34	69.6	Ari
2 Feb 2021	02h17m36.28s	+13 18' 06.1"	19.768	19.855	5.8	83.5	2.8	-2.20	295.16	2.46	69.7	Ari
3 Feb 2021	02h17m40.11s	+13 18' 27.5"	19.768	19.872	5.8	82.5	2.8	-2.74	295.94	2.59	69.8	Ari
4 Feb 2021	02h17m44.15s	+13 18' 49.8"	19.768	19.889	5.8	81.5	2.8	-3.27	296.72	2.72	69.8	Ari
5 Feb 2021	02h17m48.37s	+13 19' 13.1"	19.768	19.906	5.8	80.5	2.8	-3.79	297.50	2.84	69.9	Ari
6 Feb 2021	02h17m52.80s	+13 19' 37.4"	19.767	19.923	5.8	79.5	2.8	-4.31	298.29	2.97	69.9	Ari
7 Feb 2021	02h17m57.41s	+13 20' 02.6"	19.767	19.940	5.8	78.5	2.8	-4.83	299.07	3.10	70.0	Ari
8 Feb 2021	02h18m02.22s	+13 20' 28.8"	19.767	19.956	5.8	77.5	2.8	-5.34	299.87	3.22	70.0	Ari
9 Feb 2021	02h18m07.22s	+13 20' 56.0"	19.767	19.973	5.8	76.6	2.8	-5.85	300.66	3.34	70.1	Ari
10 Feb 2021	02h18m12.42s	+13 21' 24.1"	19.767	19.990	5.8	75.6	2.8	-6.35	301.45	3.47	70.1	Ari
11 Feb 2021	02h18m17.80s	+13 21' 53.1"	19.767	20.006	5.8	74.6	2.8	-6.85	302.25	3.59	70.2	Ari
12 Feb 2021	02h18m23.37s	+13 22' 23.1"	19.767	20.023	5.8	73.6	2.7	-7.34	303.06	3.71	70.2	Ari
13 Feb 2021	02h18m29.12s	+13 22' 54.0"	19.767	20.039	5.8	72.6	2.7	-7.83	303.86	3.83	70.2	Ari
14 Feb 2021	02h18m35.06s	+13 23' 25.9"	19.766	20.056	5.8	71.6	2.7	-8.31	304.67	3.95	70.3	Ari
15 Feb 2021	02h18m41.19s	+13 23' 58.6"	19.766	20.072	5.8	70.6	2.7	-8.79	305.48	4.07	70.3	Ari
16 Feb 2021	02h18m47.49s	+13 24' 32.2"	19.766	20.088	5.8	69.6	2.7	-9.26	306.30	4.18	70.3	Ari
17 Feb 2021	02h18m53.98s	+13 25' 06.7"	19.766	20.104	5.8	68.7	2.7	-9.73	307.11	4.30	70.4	Ari
18 Feb 2021	02h19m00.64s	+13 25' 42.1"	19.766	20.120	5.8	67.7	2.7	-10.18	307.94	4.41	70.4	Ari
19 Feb 2021	02h19m07.48s	+13 26' 18.4"	19.766	20.136	5.8	66.7	2.6	-10.64	308.76	4.53	70.4	Ari
20 Feb 2021	02h19m14.49s	+13 26' 55.5"	19.766	20.151	5.8	65.7	2.6	-11.09	309.59	4.64	70.4	Ari
21 Feb 2021	02h19m21.68s	+13 27' 33.4"	19.765	20.167	5.8	64.8	2.6	-11.53	310.43	4.75	70.5	Ari
22 Feb 2021	02h19m29.03s	+13 28' 12.2"	19.765	20.182	5.8	63.8	2.6	-11.97	311.26	4.86	70.5	Ari
23 Feb 2021	02h19m36.56s	+13 28' 51.8"	19.765	20.198	5.8	62.8	2.6	-12.39	312.10	4.96	70.5	Ari
24 Feb 2021	02h19m44.25s	+13 29' 32.1"	19.765	20.213	5.8	61.8	2.5	-12.82	312.95	5.07	70.5	Ari
25 Feb 2021	02h19m52.11s	+13 30' 13.3"	19.765	20.228	5.8	60.9	2.5	-13.24	313.80	5.18	70.6	Ari
26 Feb 2021	02h20m00.12s	+13 30' 55.3"	19.765	20.243	5.8	59.9	2.5	-13.65	314.65	5.28	70.6	Ari
27 Feb 2021	02h20m08.30s	+13 31' 38.0"	19.765	20.258	5.8	58.9	2.5	-14.05	315.51	5.38	70.6	Ari
28 Feb 2021	02h20m16.64s	+13 32' 21.5"	19.765	20.272	5.8	57.9	2.4	-14.45	316.37	5.48	70.6	Ari
1 Mar 2021	02h20m25.13s	+13 33' 05.8"	19.764	20.287	5.8	57.0	2.4	-14.84	317.23	5.58	70.6	Ari
2 Mar 2021	02h20m33.78s	+13 33' 50.8"	19.764	20.301	5.8	56.0	2.4	-15.22	318.10	5.68	70.7	Ari
3 Mar 2021	02h20m42.59s	+13 34' 36.5"	19.764	20.315	5.8	55.0	2.4	-15.59	318.98	5.78	70.7	Ari
4 Mar 2021	02h20m51.54s	+13 35' 22.9"	19.764	20.329	5.8	54.1	2.3	-15.96	319.85	5.88	70.7	Ari
5 Mar 2021	02h21m00.64s	+13 36' 10.1"	19.764	20.343	5.8	53.1	2.3	-16.32	320.74	5.97	70.7	Ari
6 Mar 2021	02h21m09.89s	+13 36' 57.9"	19.764	20.357	5.8	52.2	2.3	-16.68	321.62	6.07	70.7	Ari
7 Mar 2021	02h21m19.29s	+13 37' 46.4"	19.764	20.370	5.8	51.2	2.2	-17.02	322.51	6.16	70.8	Ari
8 Mar 2021	02h21m28.83s	+13 38' 35.6"	19.763	20.384	5.8	50.2	2.2	-17.36	323.41	6.25	70.8	Ari
9 Mar 2021	02h21m38.51s	+13 39' 25.5"	19.763	20.397	5.8	49.3	2.2	-17.69	324.30	6.34	70.8	Ari
10 Mar 2021	02h21m48.34s	+13 40' 16.0"	19.763	20.410	5.8	48.3	2.2	-18.02	325.21	6.43	70.8	Ari
11 Mar 2021	02h21m58.29s	+13 41' 07.1"	19.763	20.422	5.8	47.4	2.1	-18.33	326.11	6.51	70.8	Ari
12 Mar 2021	02h22m08.39s	+13 41' 58.9"	19.763	20.435	5.8	46.4	2.1	-18.64	327.02	6.60	70.9	Ari
13 Mar 2021	02h22m18.61s	+13 42' 51.3"	19.763	20.447	5.8	45.5	2.1	-18.94	327.94	6.68	70.9	Ari
14 Mar 2021	02h22m28.97s	+13 43' 44.3"	19.763	20.459	5.8	44.5	2.0	-19.23	328.86	6.76	70.9	Ari
15 Mar 2021	02h22m39.45s	+13 44' 37.8"	19.763	20.471	5.8	43.6	2.0	-19.51	329.78	6.84	70.9	Ari

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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16 Mar 2021	02h22m50.06s	+13 45' 32.0"	19.762	20.483	5.8	42.6	2.0	-19.79	330.70	6.92	70.9	Ari
17 Mar 2021	02h23m00.79s	+13 46' 26.6"	19.762	20.495	5.8	41.7	1.9	-20.05	331.63	7.00	70.9	Ari
18 Mar 2021	02h23m11.64s	+13 47' 21.9"	19.762	20.506	5.8	40.7	1.9	-20.31	332.57	7.08	71.0	Ari
19 Mar 2021	02h23m22.61s	+13 48' 17.6"	19.762	20.517	5.8	39.8	1.8	-20.56	333.51	7.15	71.0	Ari
20 Mar 2021	02h23m33.69s	+13 49' 13.9"	19.762	20.528	5.9	38.8	1.8	-20.79	334.45	7.22	71.0	Ari
21 Mar 2021	02h23m44.88s	+13 50' 10.6"	19.762	20.539	5.9	37.9	1.8	-21.02	335.39	7.29	71.0	Ari
22 Mar 2021	02h23m56.18s	+13 51' 07.9"	19.762	20.549	5.9	36.9	1.7	-21.25	336.34	7.36	71.0	Ari
23 Mar 2021	02h24m07.59s	+13 52' 05.6"	19.761	20.559	5.9	36.0	1.7	-21.46	337.29	7.42	71.1	Ari
24 Mar 2021	02h24m19.10s	+13 53' 03.8"	19.761	20.569	5.9	35.0	1.7	-21.66	338.24	7.49	71.1	Ari
25 Mar 2021	02h24m30.72s	+13 54' 02.4"	19.761	20.579	5.9	34.1	1.6	-21.86	339.20	7.55	71.1	Ari
26 Mar 2021	02h24m42.43s	+13 55' 01.4"	19.761	20.589	5.9	33.2	1.6	-22.04	340.16	7.61	71.1	Ari
27 Mar 2021	02h24m54.24s	+13 56' 00.8"	19.761	20.598	5.9	32.2	1.5	-22.22	341.12	7.67	71.1	Ari
28 Mar 2021	02h25m06.14s	+13 57' 00.6"	19.761	20.607	5.9	31.3	1.5	-22.38	342.09	7.73	71.1	Ari
29 Mar 2021	02h25m18.13s	+13 58' 00.8"	19.761	20.616	5.9	30.3	1.5	-22.54	343.05	7.79	71.2	Ari
30 Mar 2021	02h25m30.22s	+13 59' 01.4"	19.761	20.624	5.9	29.4	1.4	-22.68	344.02	7.84	71.2	Ari
31 Mar 2021	02h25m42.39s	+14 00' 02.4"	19.760	20.633	5.9	28.5	1.4	-22.82	345.00	7.90	71.2	Ari
1 Apr 2021	02h25m54.64s	+14 01' 03.7"	19.760	20.641	5.9	27.5	1.3	-22.95	345.97	7.95	71.2	Ari
2 Apr 2021	02h26m06.98s	+14 02' 05.3"	19.760	20.649	5.9	26.6	1.3	-23.07	346.95	8.00	71.2	Ari
3 Apr 2021	02h26m19.39s	+14 03' 07.2"	19.760	20.656	5.9	25.7	1.3	-23.18	347.92	8.05	71.3	Ari
4 Apr 2021	02h26m31.89s	+14 04' 09.5"	19.760	20.664	5.9	24.7	1.2	-23.27	348.90	8.10	71.3	Ari
5 Apr 2021	02h26m44.45s	+14 05' 12.0"	19.760	20.671	5.9	23.8	1.2	-23.36	349.88	8.14	71.3	Ari
6 Apr 2021	02h26m57.10s	+14 06' 14.9"	19.760	20.678	5.9	22.9	1.1	-23.44	350.87	8.19	71.3	Ari
7 Apr 2021	02h27m09.81s	+14 07' 18.0"	19.759	20.684	5.9	21.9	1.1	-23.51	351.85	8.23	71.3	Ari
8 Apr 2021	02h27m22.58s	+14 08' 21.4"	19.759	20.691	5.9	21.0	1.0	-23.57	352.83	8.27	71.3	Ari
9 Apr 2021	02h27m35.43s	+14 09' 25.0"	19.759	20.697	5.9	20.1	1.0	-23.62	353.82	8.31	71.4	Ari
10 Apr 2021	02h27m48.33s	+14 10' 28.8"	19.759	20.703	5.9	19.2	1.0	-23.66	354.80	8.34	71.4	Ari
11 Apr 2021	02h28m01.29s	+14 11' 32.8"	19.759	20.708	5.9	18.2	0.9	-23.69	355.79	8.38	71.4	Ari
12 Apr 2021	02h28m14.31s	+14 12' 37.1"	19.759	20.714	5.9	17.3	0.9	-23.71	356.77	8.41	71.4	Ari
13 Apr 2021	02h28m27.38s	+14 13' 41.5"	19.759	20.719	5.9	16.4	0.8	-23.72	357.76	8.44	71.4	Ari
14 Apr 2021	02h28m40.51s	+14 14' 46.1"	19.759	20.723	5.9	15.5	0.8	-23.72	358.74	8.47	71.4	Ari
15 Apr 2021	02h28m53.68s	+14 15' 50.9"	19.758	20.728	5.9	14.5	0.7	-23.71	359.73	8.50	71.5	Ari
16 Apr 2021	02h29m06.89s	+14 16' 55.8"	19.758	20.732	5.9	13.6	0.7	-23.69	0.71	8.53	71.5	Ari
17 Apr 2021	02h29m20.15s	+14 18' 00.8"	19.758	20.736	5.9	12.7	0.6	-23.66	1.70	8.55	71.5	Ari
18 Apr 2021	02h29m33.44s	+14 19' 05.9"	19.758	20.740	5.9	11.8	0.6	-23.62	2.68	8.57	71.5	Ari
19 Apr 2021	02h29m46.77s	+14 20' 11.2"	19.758	20.743	5.9	10.8	0.5	-23.57	3.66	8.59	71.5	Ari
20 Apr 2021	02h30m00.13s	+14 21' 16.5"	19.758	20.747	5.9	9.9	0.5	-23.51	4.64	8.61	71.5	Ari
21 Apr 2021	02h30m13.53s	+14 22' 21.8"	19.758	20.749	5.9	9.0	0.5	-23.44	5.62	8.63	71.6	Ari
22 Apr 2021	02h30m26.95s	+14 23' 27.3"	19.757	20.752	5.9	8.1	0.4	-23.36	6.60	8.64	71.6	Ari
23 Apr 2021	02h30m40.40s	+14 24' 32.7"	19.757	20.754	5.9	7.2	0.4	-23.27	7.57	8.66	71.6	Ari
24 Apr 2021	02h30m53.87s	+14 25' 38.2"	19.757	20.757	5.9	6.3	0.3	-23.17	8.55	8.67	71.6	Ari
25 Apr 2021	02h31m07.36s	+14 26' 43.7"	19.757	20.758	5.9	5.3	0.3	-23.06	9.52	8.68	71.6	Ari
26 Apr 2021	02h31m20.87s	+14 27' 49.3"	19.757	20.760	5.9	4.4	0.2	-22.95	10.49	8.69	71.6	Ari
27 Apr 2021	02h31m34.39s	+14 28' 54.8"	19.757	20.761	5.9	3.5	0.2	-22.82	11.45	8.69	71.7	Ari
28 Apr 2021	02h31m47.92s	+14 30' 00.2"	19.757	20.762	5.9	2.6	0.1	-22.68	12.42	8.70	71.7	Ari
29 Apr 2021	02h32m01.47s	+14 31' 05.7"	19.757	20.763	5.9	1.7	0.1	-22.54	13.38	8.70	71.7	Ari
30 Apr 2021	02h32m15.02s	+14 32' 11.1"	19.756	20.764	5.9	0.9	0.0	-22.38	14.34	8.70	71.7	Ari
1 Mai 2021	02h32m28.58s	+14 33' 16.4"	19.756	20.764	5.9	0.4	0.0	-22.22	15.29	8.71	71.7	Ari
2 Mai 2021	02h32m42.14s	+14 34' 21.7"	19.756	20.764	5.9	1.1	0.1	-22.04	16.24	8.70	71.8	Ari
3 Mai 2021	02h32m55.70s	+14 35' 26.9"	19.756	20.763	5.9	2.0	0.1	-21.86	17.19	8.70	71.8	Ari
4 Mai 2021	02h33m09.26s	+14 36' 32.1"	19.756	20.763	5.9	2.9	0.1	-21.67	18.14	8.70	71.8	Ari
5 Mai 2021	02h33m22.82s	+14 37' 37.1"	19.756	20.762	5.9	3.8	0.2	-21.47	19.08	8.69	71.8	Ari
6 Mai 2021	02h33m36.36s	+14 38' 42.0"	19.756	20.761	5.9	4.7	0.2	-21.26	20.02	8.68	71.8	Ari
7 Mai 2021	02h33m49.90s	+14 39' 46.7"	19.755	20.759	5.9	5.6	0.3	-21.04	20.95	8.67	71.8	Ari
8 Mai 2021	02h34m03.42s	+14 40' 51.4"	19.755	20.758	5.9	6.5	0.3	-20.82	21.89	8.66	71.9	Ari
9 Mai 2021	02h34m16.93s	+14 41' 55.8"	19.755	20.756	5.9	7.5	0.4	-20.58	22.81	8.65	71.9	Ari
10 Mai 2021	02h34m30.42s	+14 43' 00.1"	19.755	20.754	5.9	8.4	0.4	-20.34	23.74	8.63	71.9	Ari
11 Mai 2021	02h34m43.89s	+14 44' 04.3"	19.755	20.751	5.9	9.3	0.5	-20.08	24.66	8.62	71.9	Ari
12 Mai 2021	02h34m57.33s	+14 45' 08.2"	19.755	20.748	5.9	10.2	0.5	-19.82	25.57	8.60	71.9	Ari
13 Mai 2021	02h35m10.75s	+14 46' 11.9"	19.755	20.745	5.9	11.1	0.6	-19.56	26.48	8.58	71.9	Ari
14 Mai 2021	02h35m24.13s	+14 47' 15.4"	19.755	20.742	5.9	12.0	0.6	-19.28	27.39	8.56	72.0	Ari
15 Mai 2021	02h35m37.49s	+14 48' 18.7"	19.754	20.738	5.9	12.9	0.7	-18.99	28.29	8.53	72.0	Ari
16 Mai 2021	02h35m50.80s	+14 49' 21.7"	19.754	20.735	5.9	13.8	0.7	-18.70	29.19	8.51	72.0	Ari
17 Mai 2021	02h36m04.08s	+14 50' 24.4"	19.754	20.731	5.9	14.7	0.7	-18.40	30.08	8.48	72.0	Ari
18 Mai 2021	02h36m17.32s	+14 51' 26.9"	19.754	20.726	5.9	15.6	0.8	-18.09	30.97	8.45	72.0	Ari
19 Mai 2021	02h36m30.51s	+14 52' 29.1"	19.754	20.722	5.9	16.5	0.8	-17.78	31.86	8.42	72.0	Ari
20 Mai 2021	02h36m43.66s	+14 53' 31.0"	19.754	20.717	5.9	17.4	0.9	-17.46	32.74	8.39	72.1	Ari
21 Mai 2021	02h36m56.76s	+14 54' 32.6"	19.754	20.712	5.9	18.4	0.9	-17.13	33.61	8.35	72.1	Ari
22 Mai 2021	02h37m09.81s	+14 55' 33.9"	19.753	20.706	5.9	19.3	1.0	-16.79	34.49	8.32	72.1	Ari
23 Mai 2021	02h37m22.81s	+14 56' 34.9"	19.753	20.701	5.9	20.2	1.0	-16.44	35.35	8.28	72.1	Ari
24 Mai 2021	02h37m35.74s	+14 57' 35.5"	19.753	20.695	5.9	21.1	1.1	-16.09	36.22	8.24	72.1	Ari
25 Mai 2021	02h37m48.62s	+14 58' 35.7"	19.753	20.689	5.9	22.0	1.1	-15.73	37.08	8.20	72.1	Ari
26 Mai 2021	02h38m01.44s	+14 59' 35.6"	19.753	20.682	5.9	22.9	1.1	-15.37	37.93	8.16	72.2	Ari
27 Mai 2021	02h38m14.20s	+15 00' 35.2"	19.753	20.676	5.9	23.8	1.2	-15.00	38.78	8.12	72.2	Ari
28 Mai 2021	02h38m26.89s	+15 01' 34.3"	19.753	20.669	5.9	24.7	1.2	-14.62	39.62	8.07	72.2	Ari

# EPHEMERIDE 2021 – URANUS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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29 Mai 2021	02h38m39.52s	+15 02' 33.1"	19.753	20.662	5.9	25.6	1.3	-14.23	40.47	8.03	72.2	Ari
30 Mai 2021	02h38m52.08s	+15 03' 31.5"	19.752	20.654	5.9	26.5	1.3	-13.84	41.30	7.98	72.2	Ari
31 Mai 2021	02h39m04.56s	+15 04' 29.5"	19.752	20.647	5.9	27.4	1.4	-13.45	42.13	7.93	72.2	Ari
1 Jun 2021	02h39m16.97s	+15 05' 27.1"	19.752	20.639	5.9	28.3	1.4	-13.04	42.96	7.88	72.2	Ari
2 Jun 2021	02h39m29.30s	+15 06' 24.2"	19.752	20.631	5.9	29.2	1.4	-12.63	43.79	7.83	72.3	Ari
3 Jun 2021	02h39m41.56s	+15 07' 20.9"	19.752	20.623	5.9	30.1	1.5	-12.22	44.61	7.78	72.3	Ari
4 Jun 2021	02h39m53.73s	+15 08' 17.2"	19.752	20.614	5.9	31.0	1.5	-11.80	45.42	7.72	72.3	Ari
5 Jun 2021	02h40m05.81s	+15 09' 13.0"	19.752	20.605	5.9	31.9	1.6	-11.37	46.23	7.67	72.3	Ari
6 Jun 2021	02h40m17.81s	+15 10' 08.3"	19.751	20.596	5.9	32.8	1.6	-10.93	47.04	7.61	72.3	Ari
7 Jun 2021	02h40m29.72s	+15 11' 03.1"	19.751	20.587	5.9	33.8	1.6	-10.50	47.84	7.55	72.3	Ari
8 Jun 2021	02h40m41.54s	+15 11' 57.5"	19.751	20.578	5.9	34.7	1.7	-10.05	48.64	7.49	72.4	Ari
9 Jun 2021	02h40m53.26s	+15 12' 51.4"	19.751	20.568	5.9	35.6	1.7	-9.60	49.44	7.42	72.4	Ari
10 Jun 2021	02h41m04.89s	+15 13' 44.7"	19.751	20.558	5.9	36.5	1.8	-9.15	50.23	7.36	72.4	Ari
11 Jun 2021	02h41m16.41s	+15 14' 37.5"	19.751	20.548	5.9	37.4	1.8	-8.69	51.02	7.29	72.4	Ari
12 Jun 2021	02h41m27.83s	+15 15' 29.8"	19.751	20.538	5.9	38.3	1.8	-8.22	51.80	7.23	72.4	Ari
13 Jun 2021	02h41m39.15s	+15 16' 21.6"	19.750	20.527	5.8	39.2	1.9	-7.76	52.59	7.16	72.4	Ari
14 Jun 2021	02h41m50.36s	+15 17' 12.8"	19.750	20.516	5.8	40.1	1.9	-7.28	53.36	7.09	72.4	Ari
15 Jun 2021	02h42m01.46s	+15 18' 03.4"	19.750	20.505	5.8	41.0	1.9	-6.80	54.14	7.01	72.5	Ari
16 Jun 2021	02h42m12.45s	+15 18' 53.5"	19.750	20.494	5.8	41.9	2.0	-6.32	54.91	6.94	72.5	Ari
17 Jun 2021	02h42m23.33s	+15 19' 42.9"	19.750	20.483	5.8	42.8	2.0	-5.83	55.68	6.86	72.5	Ari
18 Jun 2021	02h42m34.08s	+15 20' 31.8"	19.750	20.471	5.8	43.7	2.0	-5.34	56.44	6.79	72.5	Ari
19 Jun 2021	02h42m44.72s	+15 21' 20.1"	19.750	20.460	5.8	44.7	2.1	-4.84	57.20	6.71	72.5	Ari
20 Jun 2021	02h42m55.24s	+15 22' 07.8"	19.750	20.448	5.8	45.6	2.1	-4.34	57.96	6.63	72.5	Ari
21 Jun 2021	02h43m05.64s	+15 22' 54.8"	19.749	20.436	5.8	46.5	2.1	-3.83	58.72	6.55	72.5	Ari
22 Jun 2021	02h43m15.91s	+15 23' 41.3"	19.749	20.423	5.8	47.4	2.2	-3.32	59.47	6.47	72.6	Ari
23 Jun 2021	02h43m26.06s	+15 24' 27.1"	19.749	20.411	5.8	48.3	2.2	-2.81	60.23	6.39	72.6	Ari
24 Jun 2021	02h43m36.07s	+15 25' 12.3"	19.749	20.398	5.8	49.2	2.2	-2.29	60.97	6.30	72.6	Ari
25 Jun 2021	02h43m45.96s	+15 25' 56.9"	19.749	20.385	5.8	50.1	2.3	-1.77	61.72	6.22	72.6	Ari
26 Jun 2021	02h43m55.72s	+15 26' 40.8"	19.749	20.372	5.8	51.0	2.3	-1.25	62.47	6.13	72.6	Ari
27 Jun 2021	02h44m05.34s	+15 27' 24.0"	19.749	20.359	5.8	51.9	2.3	-0.72	63.21	6.05	72.6	Ari
28 Jun 2021	02h44m14.83s	+15 28' 06.6"	19.748	20.346	5.8	52.9	2.4	-0.19	63.95	5.96	72.6	Ari
29 Jun 2021	02h44m24.17s	+15 28' 48.5"	19.748	20.332	5.8	53.8	2.4	0.35	64.69	5.87	72.6	Ari
30 Jun 2021	02h44m33.38s	+15 29' 29.8"	19.748	20.318	5.8	54.7	2.4	0.89	65.42	5.78	72.7	Ari
1 Jul 2021	02h44m42.45s	+15 30' 10.3"	19.748	20.305	5.8	55.6	2.4	1.43	66.16	5.69	72.7	Ari
2 Jul 2021	02h44m51.37s	+15 30' 50.2"	19.748	20.291	5.8	56.5	2.5	1.97	66.89	5.59	72.7	Ari
3 Jul 2021	02h45m00.15s	+15 31' 29.4"	19.748	20.276	5.8	57.4	2.5	2.52	67.62	5.50	72.7	Ari
4 Jul 2021	02h45m08.78s	+15 32' 07.8"	19.748	20.262	5.8	58.4	2.5	3.07	68.35	5.40	72.7	Ari
5 Jul 2021	02h45m17.25s	+15 32' 45.6"	19.748	20.248	5.8	59.3	2.5	3.63	69.08	5.30	72.7	Ari
6 Jul 2021	02h45m25.58s	+15 33' 22.6"	19.747	20.233	5.8	60.2	2.6	4.19	69.81	5.21	72.7	Ari
7 Jul 2021	02h45m33.75s	+15 33' 58.9"	19.747	20.218	5.8	61.1	2.6	4.75	70.54	5.11	72.7	Ari
8 Jul 2021	02h45m41.76s	+15 34' 34.4"	19.747	20.204	5.8	62.0	2.6	5.31	71.27	5.01	72.8	Ari
9 Jul 2021	02h45m49.62s	+15 35' 09.2"	19.747	20.189	5.8	62.9	2.6	5.87	71.99	4.90	72.8	Ari
10 Jul 2021	02h45m57.32s	+15 35' 43.2"	19.747	20.174	5.8	63.9	2.6	6.44	72.72	4.80	72.8	Ari
11 Jul 2021	02h46m04.85s	+15 36' 16.5"	19.747	20.158	5.8	64.8	2.7	7.01	73.44	4.70	72.8	Ari
12 Jul 2021	02h46m12.22s	+15 36' 49.0"	19.747	20.143	5.8	65.7	2.7	7.58	74.17	4.59	72.8	Ari
13 Jul 2021	02h46m19.42s	+15 37' 20.8"	19.746	20.128	5.8	66.6	2.7	8.16	74.89	4.48	72.8	Ari
14 Jul 2021	02h46m26.46s	+15 37' 51.7"	19.746	20.112	5.8	67.6	2.7	8.74	75.62	4.38	72.8	Ari
15 Jul 2021	02h46m33.33s	+15 38' 21.9"	19.746	20.096	5.8	68.5	2.7	9.31	76.34	4.27	72.8	Ari
16 Jul 2021	02h46m40.02s	+15 38' 51.2"	19.746	20.081	5.8	69.4	2.8	9.90	77.07	4.16	72.9	Ari
17 Jul 2021	02h46m46.55s	+15 39' 19.8"	19.746	20.065	5.8	70.3	2.8	10.48	77.80	4.05	72.9	Ari
18 Jul 2021	02h46m52.90s	+15 39' 47.6"	19.746	20.049	5.8	71.3	2.8	11.06	78.52	3.94	72.9	Ari
19 Jul 2021	02h46m59.08s	+15 40' 14.6"	19.746	20.033	5.8	72.2	2.8	11.65	79.25	3.82	72.9	Ari
20 Jul 2021	02h47m05.08s	+15 40' 40.7"	19.745	20.017	5.8	73.1	2.8	12.24	79.98	3.71	72.9	Ari
21 Jul 2021	02h47m10.91s	+15 41' 06.1"	19.745	20.000	5.8	74.1	2.8	12.83	80.71	3.60	72.9	Ari
22 Jul 2021	02h47m16.56s	+15 41' 30.6"	19.745	19.984	5.8	75.0	2.8	13.42	81.44	3.49	72.9	Ari
23 Jul 2021	02h47m22.03s	+15 41' 54.4"	19.745	19.968	5.8	75.9	2.9	14.01	82.17	3.37	72.9	Ari
24 Jul 2021	02h47m27.32s	+15 42' 17.3"	19.745	19.951	5.8	76.8	2.9	14.60	82.91	3.26	72.9	Ari
25 Jul 2021	02h47m32.43s	+15 42' 39.3"	19.745	19.935	5.8	77.8	2.9	15.20	83.65	3.14	72.9	Ari
26 Jul 2021	02h47m37.36s	+15 43' 00.6"	19.745	19.918	5.8	78.7	2.9	15.80	84.39	3.02	73.0	Ari
27 Jul 2021	02h47m42.11s	+15 43' 21.0"	19.745	19.902	5.8	79.7	2.9	16.39	85.13	2.91	73.0	Ari
28 Jul 2021	02h47m46.67s	+15 43' 40.6"	19.744	19.885	5.8	80.6	2.9	16.99	85.87	2.79	73.0	Ari
29 Jul 2021	02h47m51.04s	+15 43' 59.3"	19.744	19.868	5.8	81.5	2.9	17.59	86.62	2.67	73.0	Ari
30 Jul 2021	02h47m55.23s	+15 44' 17.2"	19.744	19.852	5.8	82.5	2.9	18.19	87.36	2.55	73.0	Ari
31 Jul 2021	02h47m59.23s	+15 44' 34.3"	19.744	19.835	5.8	83.4	2.9	18.79	88.12	2.43	73.0	Ari
1 Aug 2021	02h48m03.04s	+15 44' 50.5"	19.744	19.818	5.8	84.3	2.9	19.39	88.87	2.31	73.0	Ari
2 Aug 2021	02h48m06.66s	+15 45' 05.8"	19.744	19.801	5.8	85.3	2.9	19.99	89.63	2.19	73.0	Ari
3 Aug 2021	02h48m10.09s	+15 45' 20.3"	19.744	19.784	5.8	86.2	2.9	20.60	90.39	2.07	73.0	Ari
4 Aug 2021	02h48m13.33s	+15 45' 33.9"	19.743	19.768	5.8	87.2	2.9	21.20	91.16	1.94	73.1	Ari
5 Aug 2021	02h48m16.37s	+15 45' 46.7"	19.743	19.751	5.8	88.1	2.9	21.80	91.93	1.82	73.1	Ari
6 Aug 2021	02h48m19.22s	+15 45' 58.5"	19.743	19.734	5.8	89.1	2.9	22.40	92.70	1.70	73.1	Ari
7 Aug 2021	02h48m21.88s	+15 46' 09.5"	19.743	19.717	5.8	90.0	2.9	23.01	93.48	1.57	73.1	Ari
8 Aug 2021	02h48m24.34s	+15 46' 19.6"	19.743	19.700	5.8	91.0	2.9	23.61	94.26	1.45	73.1	Ari
9 Aug 2021	02h48m26.60s	+15 46' 28.9"	19.743	19.683	5.8	91.9	2.9	24.21	95.05	1.32	73.2	Ari
10 Aug 2021	02h48m28.67s	+15 46' 37.2"	19.743	19.666	5.8	92.9	2.9	24.81	95.85	1.20	73.2	Ari

# EPHEMERIDE 2021 – URANUS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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11 Aug 2021	02h48m30.54s	+15 46' 44.7"	19.742	19.649	5.8	93.8	2.9	25.41	96.64	1.07	73.2	Ari
12 Aug 2021	02h48m32.21s	+15 46' 51.3"	19.742	19.632	5.8	94.8	2.9	26.01	97.45	0.95	73.3	Ari
13 Aug 2021	02h48m33.68s	+15 46' 57.0"	19.742	19.616	5.7	95.7	2.9	26.61	98.26	0.82	73.3	Ari
14 Aug 2021	02h48m34.96s	+15 47' 01.8"	19.742	19.599	5.7	96.7	2.9	27.21	99.08	0.70	73.4	Ari
15 Aug 2021	02h48m36.03s	+15 47' 05.8"	19.742	19.582	5.7	97.6	2.9	27.81	99.90	0.57	73.5	Ari
16 Aug 2021	02h48m36.91s	+15 47' 08.8"	19.742	19.565	5.7	98.6	2.9	28.40	100.73	0.45	73.7	Ari
17 Aug 2021	02h48m37.60s	+15 47' 11.0"	19.742	19.549	5.7	99.5	2.9	29.00	101.57	0.32	74.0	Ari
18 Aug 2021	02h48m38.08s	+15 47' 12.3"	19.742	19.532	5.7	100.5	2.9	29.59	102.41	0.19	74.6	Ari
19 Aug 2021	02h48m38.37s	+15 47' 12.8"	19.741	19.515	5.7	101.5	2.9	30.18	103.27	0.07	77.5	Ari
20 Aug 2021	02h48m38.46s	+15 47' 12.3"	19.741	19.499	5.7	102.4	2.9	30.77	104.13	0.06	247.3	Ari
21 Aug 2021	02h48m38.35s	+15 47' 11.0"	19.741	19.482	5.7	103.4	2.9	31.36	105.00	0.18	251.2	Ari
22 Aug 2021	02h48m38.05s	+15 47' 08.9"	19.741	19.466	5.7	104.4	2.8	31.95	105.87	0.30	252.0	Ari
23 Aug 2021	02h48m37.55s	+15 47' 05.8"	19.741	19.450	5.7	105.3	2.8	32.53	106.76	0.43	252.3	Ari
24 Aug 2021	02h48m36.86s	+15 47' 01.9"	19.741	19.433	5.7	106.3	2.8	33.11	107.65	0.55	252.4	Ari
25 Aug 2021	02h48m35.97s	+15 46' 57.1"	19.741	19.417	5.7	107.2	2.8	33.69	108.56	0.68	252.5	Ari
26 Aug 2021	02h48m34.89s	+15 46' 51.5"	19.740	19.401	5.7	108.2	2.8	34.27	109.47	0.80	252.6	Ari
27 Aug 2021	02h48m33.61s	+15 46' 45.0"	19.740	19.385	5.7	109.2	2.8	34.84	110.40	0.92	252.7	Ari
28 Aug 2021	02h48m32.13s	+15 46' 37.6"	19.740	19.369	5.7	110.2	2.8	35.41	111.33	1.05	252.7	Ari
29 Aug 2021	02h48m30.46s	+15 46' 29.4"	19.740	19.353	5.7	111.1	2.7	35.98	112.28	1.17	252.7	Ari
30 Aug 2021	02h48m28.60s	+15 46' 20.3"	19.740	19.338	5.7	112.1	2.7	36.54	113.24	1.29	252.8	Ari
31 Aug 2021	02h48m26.54s	+15 46' 10.4"	19.740	19.322	5.7	113.1	2.7	37.10	114.21	1.42	252.8	Ari
1 Sep 2021	02h48m24.29s	+15 45' 59.6"	19.740	19.307	5.7	114.1	2.7	37.65	115.19	1.54	252.8	Ari
2 Sep 2021	02h48m21.85s	+15 45' 47.9"	19.739	19.291	5.7	115.0	2.7	38.20	116.18	1.66	252.8	Ari
3 Sep 2021	02h48m19.21s	+15 45' 35.5"	19.739	19.276	5.7	116.0	2.6	38.75	117.19	1.78	252.8	Ari
4 Sep 2021	02h48m16.39s	+15 45' 22.1"	19.739	19.261	5.7	117.0	2.6	39.29	118.21	1.90	252.8	Ari
5 Sep 2021	02h48m13.38s	+15 45' 07.9"	19.739	19.246	5.7	118.0	2.6	39.83	119.24	2.02	252.8	Ari
6 Sep 2021	02h48m10.18s	+15 44' 52.9"	19.739	19.231	5.7	119.0	2.6	40.36	120.29	2.14	252.8	Ari
7 Sep 2021	02h48m06.79s	+15 44' 37.1"	19.739	19.216	5.7	119.9	2.5	40.88	121.35	2.26	252.8	Ari
8 Sep 2021	02h48m03.21s	+15 44' 20.4"	19.739	19.202	5.7	120.9	2.5	41.40	122.43	2.38	252.8	Ari
9 Sep 2021	02h47m59.46s	+15 44' 03.0"	19.739	19.187	5.7	121.9	2.5	41.92	123.52	2.49	252.8	Ari
10 Sep 2021	02h47m55.51s	+15 43' 44.7"	19.738	19.173	5.7	122.9	2.5	42.43	124.62	2.61	252.8	Ari
11 Sep 2021	02h47m51.39s	+15 43' 25.6"	19.738	19.159	5.7	123.9	2.4	42.93	125.74	2.72	252.8	Ari
12 Sep 2021	02h47m47.09s	+15 43' 05.7"	19.738	19.145	5.7	124.9	2.4	43.42	126.88	2.83	252.8	Ari
13 Sep 2021	02h47m42.62s	+15 42' 45.0"	19.738	19.131	5.7	125.9	2.4	43.91	128.04	2.94	252.8	Ari
14 Sep 2021	02h47m37.96s	+15 42' 23.6"	19.738	19.118	5.7	126.9	2.3	44.39	129.21	3.06	252.8	Ari
15 Sep 2021	02h47m33.14s	+15 42' 01.4"	19.738	19.104	5.7	127.9	2.3	44.86	130.40	3.16	252.8	Ari
16 Sep 2021	02h47m28.14s	+15 41' 38.4"	19.738	19.091	5.7	128.9	2.3	45.32	131.60	3.27	252.8	Ari
17 Sep 2021	02h47m22.98s	+15 41' 14.7"	19.737	19.078	5.7	129.9	2.2	45.77	132.82	3.38	252.8	Ari
18 Sep 2021	02h47m17.65s	+15 40' 50.2"	19.737	19.065	5.7	130.9	2.2	46.22	134.06	3.48	252.9	Ari
19 Sep 2021	02h47m12.15s	+15 40' 25.0"	19.737	19.053	5.7	131.9	2.2	46.66	135.32	3.59	252.8	Ari
20 Sep 2021	02h47m06.49s	+15 39' 59.1"	19.737	19.040	5.7	132.9	2.1	47.08	136.60	3.69	252.8	Ari
21 Sep 2021	02h47m00.68s	+15 39' 32.5"	19.737	19.028	5.7	133.9	2.1	47.50	137.89	3.79	252.8	Ari
22 Sep 2021	02h46m54.70s	+15 39' 05.2"	19.737	19.016	5.7	134.9	2.1	47.90	139.21	3.89	252.8	Ari
23 Sep 2021	02h46m48.57s	+15 38' 37.2"	19.737	19.004	5.7	135.9	2.0	48.30	140.54	3.99	252.8	Ari
24 Sep 2021	02h46m42.28s	+15 38' 08.4"	19.736	18.992	5.7	136.9	2.0	48.68	141.89	4.08	252.8	Ari
25 Sep 2021	02h46m35.84s	+15 37' 39.1"	19.736	18.981	5.7	137.9	2.0	49.05	143.26	4.18	252.8	Ari
26 Sep 2021	02h46m29.25s	+15 37' 09.0"	19.736	18.970	5.7	138.9	1.9	49.41	144.65	4.27	252.8	Ari
27 Sep 2021	02h46m22.52s	+15 36' 38.3"	19.736	18.959	5.7	139.9	1.9	49.76	146.05	4.37	252.8	Ari
28 Sep 2021	02h46m15.64s	+15 36' 06.9"	19.736	18.948	5.7	140.9	1.8	50.10	147.48	4.46	252.8	Ari
29 Sep 2021	02h46m08.62s	+15 35' 34.9"	19.736	18.938	5.7	141.9	1.8	50.42	148.92	4.55	252.8	Ari
30 Sep 2021	02h46m01.46s	+15 35' 02.3"	19.736	18.927	5.7	142.9	1.8	50.72	150.38	4.63	252.8	Ari
1 Okt 2021	02h45m54.16s	+15 34' 29.1"	19.736	18.917	5.7	143.9	1.7	51.02	151.86	4.72	252.8	Ari
2 Okt 2021	02h45m46.73s	+15 33' 55.2"	19.735	18.907	5.7	145.0	1.7	51.30	153.36	4.80	252.8	Ari
3 Okt 2021	02h45m39.17s	+15 33' 20.8"	19.735	18.898	5.7	146.0	1.6	51.56	154.87	4.89	252.8	Ari
4 Okt 2021	02h45m31.48s	+15 32' 45.8"	19.735	18.889	5.7	147.0	1.6	51.81	156.40	4.97	252.8	Ari
5 Okt 2021	02h45m23.67s	+15 32' 10.2"	19.735	18.880	5.7	148.0	1.5	52.05	157.94	5.04	252.8	Ari
6 Okt 2021	02h45m15.73s	+15 31' 34.1"	19.735	18.871	5.7	149.0	1.5	52.26	159.50	5.12	252.8	Ari
7 Okt 2021	02h45m07.68s	+15 30' 57.4"	19.735	18.862	5.7	150.0	1.4	52.47	161.08	5.19	252.8	Ari
8 Okt 2021	02h44m59.51s	+15 30' 20.3"	19.735	18.854	5.7	151.1	1.4	52.65	162.66	5.26	252.8	Ari
9 Okt 2021	02h44m51.24s	+15 29' 42.6"	19.734	18.846	5.7	152.1	1.4	52.82	164.26	5.33	252.8	Ari
10 Okt 2021	02h44m42.85s	+15 29' 04.4"	19.734	18.838	5.7	153.1	1.3	52.97	165.87	5.40	252.8	Ari
11 Okt 2021	02h44m34.37s	+15 28' 25.8"	19.734	18.831	5.7	154.1	1.3	53.11	167.49	5.46	252.8	Ari
12 Okt 2021	02h44m25.78s	+15 27' 46.7"	19.734	18.824	5.7	155.2	1.2	53.22	169.12	5.53	252.8	Ari
13 Okt 2021	02h44m17.10s	+15 27' 07.2"	19.734	18.817	5.7	156.2	1.2	53.32	170.76	5.58	252.7	Ari
14 Okt 2021	02h44m08.33s	+15 26' 27.3"	19.734	18.810	5.7	157.2	1.1	53.40	172.41	5.64	252.7	Ari
15 Okt 2021	02h43m59.47s	+15 25' 47.0"	19.734	18.804	5.7	158.2	1.1	53.47	174.06	5.70	252.7	Ari
16 Okt 2021	02h43m50.53s	+15 25' 06.3"	19.733	18.798	5.7	159.3	1.0	53.51	175.71	5.75	252.7	Ari
17 Okt 2021	02h43m41.50s	+15 24' 25.2"	19.733	18.792	5.7	160.3	1.0	53.54	177.37	5.80	252.7	Ari
18 Okt 2021	02h43m32.40s	+15 23' 43.8"	19.733	18.787	5.7	161.3	0.9	53.55	179.03	5.85	252.7	Ari
19 Okt 2021	02h43m23.23s	+15 23' 02.0"	19.733	18.781	5.7	162.4	0.9	53.54	180.69	5.89	252.7	Ari
20 Okt 2021	02h43m13.99s	+15 22' 19.9"	19.733	18.777	5.7	163.4	0.8	53.51	182.35	5.93	252.7	Ari
21 Okt 2021	02h43m04.68s	+15 21' 37.5"	19.733	18.772	5.7	164.4	0.8	53.46	184.01	5.97	252.7	Ari
22 Okt 2021	02h42m55.31s	+15 20' 54.9"	19.733	18.768	5.7	165.5	0.7	53.40	185.66	6.01	252.7	Ari
23 Okt 2021	02h42m45.89s	+15 20' 11.9"	19.732	18.764	5.7	166.5	0.7	53.31	187.31	6.05	252.7	Ari

# EPHEMERIDE 2021 – URANUS

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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24 Okt 2021	02h42m36.40s	+15 19' 28.7"	19.732	18.760	5.7	167.5	0.6	53.21	188.95	6.08	252.7	Ari
25 Okt 2021	02h42m26.87s	+15 18' 45.3"	19.732	18.756	5.7	168.6	0.6	53.09	190.59	6.11	252.7	Ari
26 Okt 2021	02h42m17.29s	+15 18' 01.6"	19.732	18.753	5.7	169.6	0.5	52.96	192.22	6.14	252.7	Ari
27 Okt 2021	02h42m07.67s	+15 17' 17.8"	19.732	18.751	5.7	170.6	0.5	52.80	193.84	6.16	252.7	Ari
28 Okt 2021	02h41m58.02s	+15 16' 33.8"	19.732	18.748	5.7	171.7	0.4	52.63	195.45	6.19	252.7	Ari
29 Okt 2021	02h41m48.32s	+15 15' 49.6"	19.732	18.746	5.7	172.7	0.4	52.44	197.04	6.21	252.7	Ari
30 Okt 2021	02h41m38.60s	+15 15' 05.2"	19.732	18.744	5.7	173.7	0.3	52.24	198.63	6.23	252.6	Ari
31 Okt 2021	02h41m28.85s	+15 14' 20.8"	19.731	18.742	5.6	174.8	0.3	52.01	200.20	6.24	252.6	Ari
1 Nov 2021	02h41m19.08s	+15 13' 36.2"	19.731	18.741	5.6	175.8	0.2	51.77	201.76	6.25	252.6	Ari
2 Nov 2021	02h41m09.29s	+15 12' 51.5"	19.731	18.740	5.6	176.9	0.2	51.52	203.30	6.26	252.6	Ari
3 Nov 2021	02h40m59.49s	+15 12' 06.8"	19.731	18.739	5.6	177.9	0.1	51.25	204.82	6.27	252.6	Ari
4 Nov 2021	02h40m49.68s	+15 11' 22.0"	19.731	18.739	5.6	178.9	0.1	50.96	206.33	6.27	252.6	Ari
5 Nov 2021	02h40m39.87s	+15 10' 37.2"	19.731	18.739	5.6	179.6	0.0	50.66	207.83	6.27	252.6	Ari
6 Nov 2021	02h40m30.06s	+15 09' 52.4"	19.731	18.739	5.6	178.9	0.1	50.35	209.30	6.27	252.6	Ari
7 Nov 2021	02h40m20.25s	+15 09' 07.7"	19.730	18.740	5.6	177.9	0.1	50.02	210.76	6.27	252.6	Ari
8 Nov 2021	02h40m10.46s	+15 08' 22.9"	19.730	18.741	5.6	176.8	0.2	49.68	212.21	6.26	252.6	Ari
9 Nov 2021	02h40m00.68s	+15 07' 38.3"	19.730	18.742	5.6	175.8	0.2	49.32	213.63	6.25	252.6	Ari
10 Nov 2021	02h39m50.91s	+15 06' 53.7"	19.730	18.744	5.6	174.7	0.3	48.96	215.03	6.23	252.6	Ari
11 Nov 2021	02h39m41.17s	+15 06' 09.2"	19.730	18.745	5.7	173.7	0.3	48.57	216.42	6.22	252.6	Ari
12 Nov 2021	02h39m31.46s	+15 05' 24.8"	19.730	18.747	5.7	172.7	0.4	48.18	217.79	6.20	252.6	Ari
13 Nov 2021	02h39m21.78s	+15 04' 40.6"	19.730	18.750	5.7	171.6	0.4	47.78	219.14	6.18	252.6	Ari
14 Nov 2021	02h39m12.14s	+15 03' 56.5"	19.729	18.753	5.7	170.6	0.5	47.36	220.47	6.15	252.6	Ari
15 Nov 2021	02h39m02.54s	+15 03' 12.7"	19.729	18.756	5.7	169.5	0.5	46.93	221.79	6.13	252.6	Ari
16 Nov 2021	02h38m52.98s	+15 02' 29.0"	19.729	18.759	5.7	168.5	0.6	46.50	223.08	6.10	252.6	Ari
17 Nov 2021	02h38m43.47s	+15 01' 45.5"	19.729	18.763	5.7	167.4	0.6	46.05	224.36	6.06	252.6	Ari
18 Nov 2021	02h38m34.01s	+15 01' 02.3"	19.729	18.767	5.7	166.4	0.7	45.59	225.62	6.03	252.6	Ari
19 Nov 2021	02h38m24.61s	+15 00' 19.4"	19.729	18.771	5.7	165.3	0.7	45.12	226.86	5.99	252.6	Ari
20 Nov 2021	02h38m15.27s	+14 59' 36.7"	19.729	18.776	5.7	164.3	0.8	44.65	228.08	5.95	252.5	Ari
21 Nov 2021	02h38m05.99s	+14 58' 54.3"	19.728	18.780	5.7	163.2	0.8	44.16	229.29	5.91	252.5	Ari
22 Nov 2021	02h37m56.78s	+14 58' 12.3"	19.728	18.786	5.7	162.2	0.9	43.67	230.48	5.86	252.5	Ari
23 Nov 2021	02h37m47.64s	+14 57' 30.5"	19.728	18.791	5.7	161.1	0.9	43.17	231.65	5.82	252.5	Ari
24 Nov 2021	02h37m38.58s	+14 56' 49.1"	19.728	18.797	5.7	160.1	1.0	42.66	232.81	5.77	252.5	Ari
25 Nov 2021	02h37m29.60s	+14 56' 08.1"	19.728	18.803	5.7	159.0	1.0	42.15	233.95	5.71	252.5	Ari
26 Nov 2021	02h37m20.70s	+14 55' 27.5"	19.728	18.809	5.7	158.0	1.1	41.62	235.08	5.66	252.5	Ari
27 Nov 2021	02h37m11.89s	+14 54' 47.2"	19.728	18.816	5.7	156.9	1.1	41.09	236.19	5.60	252.5	Ari
28 Nov 2021	02h37m03.17s	+14 54' 07.4"	19.727	18.823	5.7	155.9	1.2	40.56	237.28	5.54	252.5	Ari
29 Nov 2021	02h36m54.54s	+14 53' 28.1"	19.727	18.830	5.7	154.8	1.2	40.01	238.36	5.48	252.5	Ari
30 Nov 2021	02h36m46.02s	+14 52' 49.2"	19.727	18.837	5.7	153.8	1.3	39.47	239.43	5.42	252.5	Ari
1 Dez 2021	02h36m37.59s	+14 52' 10.8"	19.727	18.845	5.7	152.7	1.3	38.91	240.48	5.35	252.5	Ari
2 Dez 2021	02h36m29.28s	+14 51' 32.8"	19.727	18.853	5.7	151.7	1.4	38.35	241.52	5.28	252.5	Ari
3 Dez 2021	02h36m21.07s	+14 50' 55.5"	19.727	18.862	5.7	150.7	1.4	37.79	242.55	5.21	252.5	Ari
4 Dez 2021	02h36m12.98s	+14 50' 18.6"	19.727	18.870	5.7	149.6	1.4	37.22	243.56	5.13	252.5	Ari
5 Dez 2021	02h36m05.01s	+14 49' 42.3"	19.727	18.879	5.7	148.6	1.5	36.65	244.57	5.05	252.5	Ari
6 Dez 2021	02h35m57.16s	+14 49' 06.6"	19.726	18.888	5.7	147.5	1.5	36.07	245.55	4.97	252.5	Ari
7 Dez 2021	02h35m49.44s	+14 48' 31.5"	19.726	18.897	5.7	146.5	1.6	35.49	246.53	4.89	252.5	Ari
8 Dez 2021	02h35m41.85s	+14 47' 57.0"	19.726	18.907	5.7	145.4	1.6	34.90	247.50	4.81	252.6	Ari
9 Dez 2021	02h35m34.39s	+14 47' 23.1"	19.726	18.917	5.7	144.4	1.7	34.32	248.46	4.72	252.6	Ari
10 Dez 2021	02h35m27.06s	+14 46' 49.8"	19.726	18.927	5.7	143.3	1.7	33.72	249.40	4.63	252.6	Ari
11 Dez 2021	02h35m19.88s	+14 46' 17.3"	19.726	18.938	5.7	142.3	1.8	33.13	250.34	4.54	252.6	Ari
12 Dez 2021	02h35m12.84s	+14 45' 45.4"	19.726	18.948	5.7	141.2	1.8	32.53	251.26	4.45	252.6	Ari
13 Dez 2021	02h35m05.94s	+14 45' 14.2"	19.725	18.959	5.7	140.2	1.8	31.93	252.18	4.35	252.6	Ari
14 Dez 2021	02h34m59.19s	+14 44' 43.7"	19.725	18.970	5.7	139.1	1.9	31.33	253.09	4.26	252.6	Ari
15 Dez 2021	02h34m52.59s	+14 44' 13.9"	19.725	18.982	5.7	138.1	1.9	30.72	253.98	4.16	252.6	Ari
16 Dez 2021	02h34m46.15s	+14 43' 44.9"	19.725	18.993	5.7	137.0	1.9	30.11	254.87	4.06	252.6	Ari
17 Dez 2021	02h34m39.86s	+14 43' 16.5"	19.725	19.005	5.7	136.0	2.0	29.50	255.76	3.96	252.6	Ari
18 Dez 2021	02h34m33.73s	+14 42' 49.0"	19.725	19.017	5.7	135.0	2.0	28.89	256.63	3.86	252.7	Ari
19 Dez 2021	02h34m27.76s	+14 42' 22.2"	19.725	19.029	5.7	133.9	2.1	28.28	257.50	3.75	252.7	Ari
20 Dez 2021	02h34m21.96s	+14 41' 56.2"	19.724	19.042	5.7	132.9	2.1	27.67	258.35	3.65	252.7	Ari
21 Dez 2021	02h34m16.32s	+14 41' 31.0"	19.724	19.055	5.7	131.8	2.1	27.05	259.21	3.54	252.7	Ari
22 Dez 2021	02h34m10.84s	+14 41' 06.5"	19.724	19.067	5.7	130.8	2.2	26.43	260.05	3.43	252.7	Ari
23 Dez 2021	02h34m05.54s	+14 40' 42.9"	19.724	19.080	5.7	129.8	2.2	25.82	260.89	3.32	252.8	Ari
24 Dez 2021	02h34m00.41s	+14 40' 20.2"	19.724	19.094	5.7	128.7	2.2	25.20	261.72	3.21	252.8	Ari
25 Dez 2021	02h33m55.46s	+14 39' 58.2"	19.724	19.107	5.7	127.7	2.3	24.58	262.55	3.10	252.8	Ari
26 Dez 2021	02h33m50.68s	+14 39' 37.1"	19.724	19.121	5.7	126.6	2.3	23.96	263.37	2.98	252.8	Ari
27 Dez 2021	02h33m46.08s	+14 39' 16.9"	19.723	19.135	5.7	125.6	2.3	23.34	264.19	2.87	252.9	Ari
28 Dez 2021	02h33m41.66s	+14 38' 57.5"	19.723	19.149	5.7	124.6	2.4	22.72	265.00	2.75	252.9	Ari
29 Dez 2021	02h33m37.43s	+14 38' 39.0"	19.723	19.163	5.7	123.5	2.4	22.10	265.81	2.63	253.0	Ari
30 Dez 2021	02h33m33.38s	+14 38' 21.4"	19.723	19.177	5.7	122.5	2.4	21.48	266.61	2.51	253.0	Ari
31 Dez 2021	02h33m29.52s	+14 38' 04.6"	19.723	19.192	5.7	121.4	2.4	20.86	267.41	2.39	253.1	Ari
1 Jan 2022	02h33m25.85s	+14 37' 48.8"	19.723	19.207	5.7	120.4	2.5	20.23	268.21	2.27	253.1	Ari