



Die Bahn des Planeten Neptun 2020

EPHEMERIDE 2020 – NEPTUN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
1 Jan 2020	23h10m01.92s	-06 28' 15.3"	29.933	30.315	7.9	66.3	1.7	-26.71	296.19	2.93	66.2	Aqr
2 Jan 2020	23h10m06.23s	-06 27' 46.7"	29.933	30.331	7.9	65.3	1.7	-27.24	297.09	3.01	66.2	Aqr
3 Jan 2020	23h10m10.67s	-06 27' 17.4"	29.933	30.347	7.9	64.3	1.7	-27.76	298.00	3.08	66.3	Aqr
4 Jan 2020	23h10m15.21s	-06 26' 47.3"	29.933	30.362	7.9	63.3	1.7	-28.28	298.92	3.16	66.3	Aqr
5 Jan 2020	23h10m19.86s	-06 26' 16.6"	29.933	30.378	7.9	62.3	1.7	-28.79	299.84	3.23	66.3	Aqr
6 Jan 2020	23h10m24.63s	-06 25' 45.3"	29.933	30.393	7.9	61.3	1.7	-29.30	300.78	3.30	66.4	Aqr
7 Jan 2020	23h10m29.49s	-06 25' 13.2"	29.933	30.408	7.9	60.3	1.6	-29.80	301.72	3.38	66.4	Aqr
8 Jan 2020	23h10m34.47s	-06 24' 40.6"	29.933	30.423	7.9	59.3	1.6	-30.29	302.66	3.45	66.4	Aqr
9 Jan 2020	23h10m39.55s	-06 24' 07.2"	29.933	30.438	7.9	58.3	1.6	-30.78	303.62	3.52	66.5	Aqr
10 Jan 2020	23h10m44.74s	-06 23' 33.3"	29.933	30.453	7.9	57.3	1.6	-31.27	304.59	3.59	66.5	Aqr
11 Jan 2020	23h10m50.02s	-06 22' 58.7"	29.933	30.467	7.9	56.3	1.6	-31.74	305.56	3.66	66.5	Aqr
12 Jan 2020	23h10m55.41s	-06 22' 23.5"	29.933	30.482	7.9	55.3	1.5	-32.22	306.54	3.72	66.5	Aqr
13 Jan 2020	23h11m00.90s	-06 21' 47.7"	29.933	30.496	7.9	54.3	1.5	-32.68	307.53	3.79	66.6	Aqr
14 Jan 2020	23h11m06.48s	-06 21' 11.3"	29.933	30.510	7.9	53.3	1.5	-33.14	308.53	3.86	66.6	Aqr
15 Jan 2020	23h11m12.17s	-06 20' 34.3"	29.933	30.524	7.9	52.3	1.5	-33.59	309.54	3.92	66.6	Aqr
16 Jan 2020	23h11m17.95s	-06 19' 56.7"	29.933	30.538	7.9	51.3	1.5	-34.04	310.56	3.99	66.6	Aqr
17 Jan 2020	23h11m23.83s	-06 19' 18.6"	29.933	30.551	7.9	50.3	1.4	-34.47	311.59	4.05	66.7	Aqr
18 Jan 2020	23h11m29.79s	-06 18' 39.8"	29.933	30.564	7.9	49.3	1.4	-34.90	312.63	4.11	66.7	Aqr
19 Jan 2020	23h11m35.86s	-06 18' 00.5"	29.933	30.577	7.9	48.3	1.4	-35.32	313.67	4.18	66.7	Aqr
20 Jan 2020	23h11m42.01s	-06 17' 20.7"	29.933	30.590	7.9	47.4	1.4	-35.74	314.73	4.24	66.7	Aqr
21 Jan 2020	23h11m48.25s	-06 16' 40.3"	29.933	30.603	7.9	46.4	1.4	-36.15	315.80	4.30	66.7	Aqr
22 Jan 2020	23h11m54.58s	-06 15' 59.4"	29.933	30.616	7.9	45.4	1.3	-36.54	316.87	4.36	66.8	Aqr
23 Jan 2020	23h12m01.00s	-06 15' 18.0"	29.933	30.628	7.9	44.4	1.3	-36.93	317.96	4.41	66.8	Aqr
24 Jan 2020	23h12m07.50s	-06 14' 36.0"	29.933	30.640	7.9	43.4	1.3	-37.31	319.05	4.47	66.8	Aqr
25 Jan 2020	23h12m14.09s	-06 13' 53.6"	29.933	30.652	7.9	42.4	1.3	-37.69	320.16	4.53	66.8	Aqr
26 Jan 2020	23h12m20.75s	-06 13' 10.6"	29.933	30.664	7.9	41.4	1.2	-38.05	321.28	4.58	66.8	Aqr
27 Jan 2020	23h12m27.50s	-06 12' 27.2"	29.932	30.675	7.9	40.4	1.2	-38.40	322.40	4.63	66.9	Aqr
28 Jan 2020	23h12m34.32s	-06 11' 43.3"	29.932	30.686	7.9	39.5	1.2	-38.75	323.54	4.68	66.9	Aqr
29 Jan 2020	23h12m41.22s	-06 10' 59.0"	29.932	30.697	7.9	38.5	1.2	-39.08	324.68	4.73	66.9	Aqr
30 Jan 2020	23h12m48.19s	-06 10' 14.2"	29.932	30.708	7.9	37.5	1.1	-39.41	325.84	4.78	66.9	Aqr
31 Jan 2020	23h12m55.24s	-06 09' 29.0"	29.932	30.719	7.9	36.5	1.1	-39.72	327.00	4.83	66.9	Aqr
1 Feb 2020	23h13m02.36s	-06 08' 43.4"	29.932	30.729	7.9	35.5	1.1	-40.02	328.17	4.88	66.9	Aqr
2 Feb 2020	23h13m09.54s	-06 07' 57.3"	29.932	30.739	7.9	34.5	1.1	-40.32	329.36	4.92	66.9	Aqr
3 Feb 2020	23h13m16.79s	-06 07' 10.9"	29.932	30.749	7.9	33.6	1.0	-40.60	330.55	4.97	67.0	Aqr
4 Feb 2020	23h13m24.11s	-06 06' 24.0"	29.932	30.758	8.0	32.6	1.0	-40.87	331.75	5.01	67.0	Aqr
5 Feb 2020	23h13m31.49s	-06 05' 36.8"	29.932	30.768	8.0	31.6	1.0	-41.13	332.96	5.05	67.0	Aqr
6 Feb 2020	23h13m38.93s	-06 04' 49.3"	29.932	30.777	8.0	30.6	1.0	-41.38	334.18	5.09	67.0	Aqr
7 Feb 2020	23h13m46.43s	-06 04' 01.4"	29.932	30.785	8.0	29.6	0.9	-41.62	335.41	5.13	67.0	Aqr
8 Feb 2020	23h13m53.99s	-06 03' 13.1"	29.932	30.794	8.0	28.7	0.9	-41.84	336.64	5.17	67.0	Aqr
9 Feb 2020	23h14m01.60s	-06 02' 24.5"	29.932	30.802	8.0	27.7	0.9	-42.06	337.89	5.21	67.0	Aqr
10 Feb 2020	23h14m09.27s	-06 01' 35.6"	29.932	30.810	8.0	26.7	0.8	-42.26	339.14	5.24	67.1	Aqr
11 Feb 2020	23h14m17.00s	-06 00' 46.4"	29.932	30.818	8.0	25.7	0.8	-42.45	340.39	5.28	67.1	Aqr
12 Feb 2020	23h14m24.77s	-05 59' 56.9"	29.932	30.826	8.0	24.7	0.8	-42.63	341.66	5.31	67.1	Aqr
13 Feb 2020	23h14m32.59s	-05 59' 07.1"	29.932	30.833	8.0	23.8	0.8	-42.79	342.93	5.35	67.1	Aqr
14 Feb 2020	23h14m40.46s	-05 58' 17.1"	29.932	30.840	8.0	22.8	0.7	-42.95	344.20	5.38	67.1	Aqr
15 Feb 2020	23h14m48.38s	-05 57' 26.7"	29.932	30.847	8.0	21.8	0.7	-43.09	345.49	5.41	67.1	Aqr
16 Feb 2020	23h14m56.34s	-05 56' 36.2"	29.932	30.853	8.0	20.9	0.7	-43.21	346.77	5.44	67.1	Aqr
17 Feb 2020	23h15m04.34s	-05 55' 45.3"	29.932	30.859	8.0	19.9	0.6	-43.33	348.07	5.46	67.1	Aqr
18 Feb 2020	23h15m12.38s	-05 54' 54.3"	29.932	30.865	8.0	18.9	0.6	-43.43	349.36	5.49	67.2	Aqr
19 Feb 2020	23h15m20.46s	-05 54' 03.0"	29.932	30.871	8.0	17.9	0.6	-43.52	350.66	5.51	67.2	Aqr
20 Feb 2020	23h15m28.58s	-05 53' 11.6"	29.932	30.876	8.0	17.0	0.6	-43.59	351.96	5.54	67.2	Aqr
21 Feb 2020	23h15m36.74s	-05 52' 19.9"	29.932	30.881	8.0	16.0	0.5	-43.65	353.27	5.56	67.2	Aqr
22 Feb 2020	23h15m44.92s	-05 51' 28.1"	29.932	30.886	8.0	15.0	0.5	-43.70	354.58	5.58	67.2	Aqr
23 Feb 2020	23h15m53.14s	-05 50' 36.1"	29.932	30.891	8.0	14.1	0.5	-43.73	355.89	5.60	67.2	Aqr
24 Feb 2020	23h16m01.18s	-05 49' 43.9"	29.932	30.895	8.0	13.1	0.4	-43.75	357.20	5.62	67.2	Aqr
25 Feb 2020	23h16m09.65s	-05 48' 51.6"	29.932	30.899	8.0	12.1	0.4	-43.76	358.51	5.64	67.2	Aqr
26 Feb 2020	23h16m17.95s	-05 47' 59.2"	29.932	30.903	8.0	11.2	0.4	-43.76	359.82	5.65	67.2	Aqr
27 Feb 2020	23h16m26.27s	-05 47' 06.7"	29.932	30.906	8.0	10.2	0.3	-43.74	1.13	5.67	67.3	Aqr
28 Feb 2020	23h16m34.60s	-05 46' 14.0"	29.932	30.909	8.0	9.2	0.3	-43.70	2.43	5.68	67.3	Aqr
29 Feb 2020	23h16m42.96s	-05 45' 21.3"	29.932	30.912	8.0	8.3	0.3	-43.66	3.74	5.69	67.3	Aqr
1 Mar 2020	23h16m51.33s	-05 44' 28.5"	29.932	30.914	8.0	7.3	0.2	-43.60	5.05	5.70	67.3	Aqr
2 Mar 2020	23h16m59.72s	-05 43' 35.6"	29.932	30.917	8.0	6.4	0.2	-43.52	6.35	5.71	67.3	Aqr
3 Mar 2020	23h17m08.12s	-05 42' 42.7"	29.932	30.919	8.0	5.4	0.2	-43.44	7.65	5.71	67.3	Aqr
4 Mar 2020	23h17m16.53s	-05 41' 49.7"	29.932	30.920	8.0	4.5	0.1	-43.34	8.94	5.72	67.3	Aqr
5 Mar 2020	23h17m24.95s	-05 40' 56.8"	29.932	30.922	8.0	3.5	0.1	-43.23	10.23	5.72	67.3	Aqr
6 Mar 2020	23h17m33.37s	-05 40' 03.8"	29.932	30.923	8.0	2.6	0.1	-43.10	11.52	5.73	67.3	Aqr
7 Mar 2020	23h17m41.80s	-05 39' 10.8"	29.932	30.924	8.0	1.8	0.1	-42.96	12.80	5.73	67.3	Aqr
8 Mar 2020	23h17m50.23s	-05 38' 17.8"	29.932	30.924	8.0	1.1	0.0	-42.81	14.07	5.73	67.4	Aqr
9 Mar 2020	23h17m58.67s	-05 37' 24.8"	29.932	30.924	8.0	1.1	0.0	-42.65	15.34	5.73	67.4	Aqr
10 Mar 2020	23h18m07.10s	-05 36' 31.9"	29.932	30.924	8.0	1.8	0.1	-42.47	16.60	5.73	67.4	Aqr
11 Mar 2020	23h18m15.53s	-05 35' 39.0"	29.932	30.924	8.0	2.6	0.1	-42.29	17.86	5.73	67.4	Aqr
12 Mar 2020	23h18m23.96s	-05 34' 46.2"	29.932	30.924	8.0	3.5	0.1	-42.09	19.11	5.72	67.4	Aqr
13 Mar 2020	23h18m32.38s	-05 33' 53.4"	29.932	30.923	8.0	4.4	0.1	-41.87	20.35	5.72	67.4	Aqr
14 Mar 2020	23h18m40.79s	-05 33' 00.7"	29.932	30.921	8.0	5.4	0.2	-41.65	21.58	5.71	67.4	Aqr

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Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
15 Mar 2020	23h18m49.19s	-05 32' 08.1"	29.932	30.920	8.0	6.3	0.2	-41.41	22.81	5.70	67.4	Aqr
16 Mar 2020	23h18m57.58s	-05 31' 15.6"	29.932	30.918	8.0	7.3	0.2	-41.17	24.02	5.69	67.5	Aqr
17 Mar 2020	23h19m05.96s	-05 30' 23.2"	29.932	30.916	8.0	8.2	0.3	-40.91	25.23	5.68	67.5	Aqr
18 Mar 2020	23h19m14.33s	-05 29' 31.0"	29.932	30.914	8.0	9.2	0.3	-40.64	26.43	5.67	67.5	Aqr
19 Mar 2020	23h19m22.67s	-05 28' 38.8"	29.932	30.911	8.0	10.1	0.3	-40.36	27.62	5.66	67.5	Aqr
20 Mar 2020	23h19m31.00s	-05 27' 46.9"	29.932	30.908	8.0	11.1	0.4	-40.07	28.80	5.64	67.5	Aqr
21 Mar 2020	23h19m39.31s	-05 26' 55.1"	29.932	30.905	8.0	12.0	0.4	-39.77	29.97	5.63	67.5	Aqr
22 Mar 2020	23h19m47.59s	-05 26' 03.4"	29.932	30.902	8.0	13.0	0.4	-39.45	31.13	5.61	67.5	Aqr
23 Mar 2020	23h19m55.85s	-05 25' 11.9"	29.932	30.898	8.0	13.9	0.5	-39.13	32.28	5.59	67.5	Aqr
24 Mar 2020	23h20m04.08s	-05 24' 20.7"	29.932	30.894	8.0	14.9	0.5	-38.80	33.42	5.57	67.5	Aqr
25 Mar 2020	23h20m12.29s	-05 23' 29.6"	29.932	30.890	8.0	15.8	0.5	-38.46	34.55	5.55	67.6	Aqr
26 Mar 2020	23h20m20.46s	-05 22' 38.8"	29.932	30.885	8.0	16.8	0.6	-38.11	35.67	5.53	67.6	Aqr
27 Mar 2020	23h20m28.60s	-05 21' 48.2"	29.932	30.881	8.0	17.7	0.6	-37.75	36.79	5.51	67.6	Aqr
28 Mar 2020	23h20m36.71s	-05 20' 57.9"	29.932	30.875	8.0	18.7	0.6	-37.38	37.89	5.48	67.6	Aqr
29 Mar 2020	23h20m44.78s	-05 20' 07.8"	29.932	30.870	8.0	19.6	0.6	-37.00	38.98	5.46	67.6	Aqr
30 Mar 2020	23h20m52.81s	-05 19' 18.0"	29.931	30.864	8.0	20.6	0.7	-36.62	40.06	5.43	67.6	Aqr
31 Mar 2020	23h21m00.80s	-05 18' 28.4"	29.931	30.859	8.0	21.5	0.7	-36.22	41.13	5.40	67.6	Aqr
1 Apr 2020	23h21m08.75s	-05 17' 39.2"	29.931	30.852	8.0	22.5	0.7	-35.82	42.19	5.37	67.7	Aqr
2 Apr 2020	23h21m16.65s	-05 16' 50.3"	29.931	30.846	8.0	23.4	0.8	-35.41	43.25	5.34	67.7	Aqr
3 Apr 2020	23h21m24.51s	-05 16' 01.6"	29.931	30.839	8.0	24.4	0.8	-34.99	44.29	5.31	67.7	Aqr
4 Apr 2020	23h21m32.33s	-05 15' 13.3"	29.931	30.832	8.0	25.3	0.8	-34.56	45.32	5.28	67.7	Aqr
5 Apr 2020	23h21m40.09s	-05 14' 25.4"	29.931	30.825	8.0	26.3	0.8	-34.13	46.34	5.24	67.7	Aqr
6 Apr 2020	23h21m47.81s	-05 13' 37.8"	29.931	30.818	8.0	27.2	0.9	-33.69	47.36	5.21	67.7	Aqr
7 Apr 2020	23h21m55.47s	-05 12' 50.5"	29.931	30.810	8.0	28.2	0.9	-33.24	48.36	5.17	67.7	Aqr
8 Apr 2020	23h22m03.08s	-05 12' 03.6"	29.931	30.802	8.0	29.1	0.9	-32.79	49.36	5.13	67.8	Aqr
9 Apr 2020	23h22m10.64s	-05 11' 17.1"	29.931	30.794	8.0	30.1	1.0	-32.33	50.34	5.09	67.8	Aqr
10 Apr 2020	23h22m18.14s	-05 10' 31.0"	29.931	30.785	8.0	31.0	1.0	-31.86	51.32	5.06	67.8	Aqr
11 Apr 2020	23h22m25.59s	-05 09' 45.2"	29.931	30.777	8.0	32.0	1.0	-31.38	52.29	5.02	67.8	Aqr
12 Apr 2020	23h22m32.97s	-05 08' 59.9"	29.931	30.768	8.0	32.9	1.0	-30.90	53.25	4.97	67.8	Aqr
13 Apr 2020	23h22m40.30s	-05 08' 15.0"	29.931	30.759	8.0	33.9	1.1	-30.42	54.20	4.93	67.8	Aqr
14 Apr 2020	23h22m47.56s	-05 07' 30.4"	29.931	30.749	7.9	34.8	1.1	-29.93	55.14	4.89	67.9	Aqr
15 Apr 2020	23h22m54.76s	-05 06' 46.4"	29.931	30.740	7.9	35.8	1.1	-29.43	56.08	4.84	67.9	Aqr
16 Apr 2020	23h23m01.89s	-05 06' 02.7"	29.931	30.730	7.9	36.7	1.1	-28.93	57.01	4.80	67.9	Aqr
17 Apr 2020	23h23m08.96s	-05 05' 19.6"	29.931	30.720	7.9	37.6	1.2	-28.42	57.92	4.75	67.9	Aqr
18 Apr 2020	23h23m15.95s	-05 04' 36.8"	29.931	30.709	7.9	38.6	1.2	-27.91	58.84	4.70	67.9	Aqr
19 Apr 2020	23h23m22.88s	-05 03' 54.6"	29.931	30.699	7.9	39.5	1.2	-27.39	59.74	4.65	68.0	Aqr
20 Apr 2020	23h23m29.73s	-05 03' 12.8"	29.931	30.688	7.9	40.5	1.2	-26.87	60.64	4.60	68.0	Aqr
21 Apr 2020	23h23m36.52s	-05 02' 31.6"	29.931	30.677	7.9	41.4	1.3	-26.34	61.53	4.55	68.0	Aqr
22 Apr 2020	23h23m43.22s	-05 01' 50.8"	29.931	30.666	7.9	42.4	1.3	-25.81	62.41	4.50	68.0	Aqr
23 Apr 2020	23h23m49.85s	-05 01' 10.6"	29.931	30.655	7.9	43.3	1.3	-25.28	63.29	4.45	68.0	Aqr
24 Apr 2020	23h23m56.40s	-05 00' 30.8"	29.931	30.643	7.9	44.3	1.3	-24.74	64.16	4.39	68.1	Aqr
25 Apr 2020	23h24m02.88s	-04 59' 51.6"	29.931	30.631	7.9	45.2	1.4	-24.20	65.02	4.34	68.1	Aqr
26 Apr 2020	23h24m09.27s	-04 59' 13.0"	29.931	30.619	7.9	46.2	1.4	-23.65	65.88	4.28	68.1	Aqr
27 Apr 2020	23h24m15.58s	-04 58' 34.9"	29.931	30.607	7.9	47.1	1.4	-23.10	66.73	4.22	68.1	Aqr
28 Apr 2020	23h24m21.80s	-04 57' 57.3"	29.931	30.595	7.9	48.0	1.4	-22.55	67.57	4.17	68.2	Aqr
29 Apr 2020	23h24m27.94s	-04 57' 20.3"	29.931	30.582	7.9	49.0	1.5	-21.99	68.41	4.11	68.2	Aqr
30 Apr 2020	23h24m33.99s	-04 56' 43.9"	29.931	30.569	7.9	49.9	1.5	-21.43	69.25	4.05	68.2	Aqr
1 Mai 2020	23h24m39.96s	-04 56' 08.1"	29.931	30.557	7.9	50.9	1.5	-20.87	70.08	3.99	68.3	Aqr
2 Mai 2020	23h24m45.83s	-04 55' 32.9"	29.931	30.543	7.9	51.8	1.5	-20.30	70.90	3.92	68.3	Aqr
3 Mai 2020	23h24m51.62s	-04 54' 58.2"	29.931	30.530	7.9	52.8	1.5	-19.73	71.72	3.86	68.3	Aqr
4 Mai 2020	23h24m57.32s	-04 54' 24.2"	29.931	30.517	7.9	53.7	1.6	-19.16	72.54	3.80	68.4	Aqr
5 Mai 2020	23h25m02.92s	-04 53' 50.8"	29.931	30.503	7.9	54.7	1.6	-18.58	73.35	3.74	68.4	Aqr
6 Mai 2020	23h25m08.43s	-04 53' 18.0"	29.931	30.489	7.9	55.6	1.6	-18.01	74.16	3.67	68.4	Aqr
7 Mai 2020	23h25m13.85s	-04 52' 45.8"	29.931	30.475	7.9	56.5	1.6	-17.43	74.96	3.61	68.5	Aqr
8 Mai 2020	23h25m19.17s	-04 52' 14.2"	29.931	30.461	7.9	57.5	1.6	-16.84	75.76	3.54	68.5	Aqr
9 Mai 2020	23h25m24.39s	-04 51' 43.3"	29.931	30.447	7.9	58.4	1.6	-16.26	76.56	3.47	68.5	Aqr
10 Mai 2020	23h25m29.52s	-04 51' 13.0"	29.931	30.433	7.9	59.4	1.7	-15.67	77.35	3.41	68.6	Aqr
11 Mai 2020	23h25m34.55s	-04 50' 43.4"	29.931	30.418	7.9	60.3	1.7	-15.09	78.14	3.34	68.6	Aqr
12 Mai 2020	23h25m39.48s	-04 50' 14.4"	29.931	30.404	7.9	61.3	1.7	-14.50	78.92	3.27	68.7	Aqr
13 Mai 2020	23h25m44.31s	-04 49' 46.1"	29.931	30.389	7.9	62.2	1.7	-13.91	79.71	3.20	68.7	Aqr
14 Mai 2020	23h25m49.04s	-04 49' 18.4"	29.931	30.374	7.9	63.1	1.7	-13.31	80.49	3.13	68.8	Aqr
15 Mai 2020	23h25m53.67s	-04 48' 51.5"	29.931	30.359	7.9	64.1	1.7	-12.72	81.27	3.06	68.8	Aqr
16 Mai 2020	23h25m58.19s	-04 48' 25.2"	29.931	30.344	7.9	65.0	1.8	-12.12	82.04	2.99	68.9	Aqr
17 Mai 2020	23h26m02.61s	-04 47' 59.6"	29.931	30.328	7.9	66.0	1.8	-11.53	82.81	2.92	68.9	Aqr
18 Mai 2020	23h26m06.92s	-04 47' 34.6"	29.931	30.313	7.9	66.9	1.8	-10.93	83.59	2.84	69.0	Aqr
19 Mai 2020	23h26m11.12s	-04 47' 10.4"	29.931	30.297	7.9	67.9	1.8	-10.33	84.36	2.77	69.1	Aqr
20 Mai 2020	23h26m15.22s	-04 46' 46.9"	29.931	30.282	7.9	68.8	1.8	-9.73	85.12	2.70	69.1	Aqr
21 Mai 2020	23h26m19.21s	-04 46' 24.1"	29.931	30.266	7.9	69.8	1.8	-9.13	85.89	2.62	69.2	Aqr
22 Mai 2020	23h26m23.09s	-04 46' 02.0"	29.931	30.250	7.9	70.7	1.8	-8.53	86.66	2.54	69.3	Aqr
23 Mai 2020	23h26m26.85s	-04 45' 40.6"	29.931	30.234	7.9	71.6	1.8	-7.93	87.42	2.47	69.3	Aqr
24 Mai 2020	23h26m30.51s	-04 45' 20.0"	29.931	30.218	7.9	72.6	1.9	-7.32	88.18	2.39	69.4	Aqr
25 Mai 2020	23h26m34.05s	-04 45' 00.1"	29.931	30.202	7.9	73.5	1.9	-6.72	88.95	2.32	69.5	Aqr
26 Mai 2020	23h26m37.49s	-04 44' 40.9"	29.931	30.186	7.9	74.5	1.9	-6.12	89.71	2.24	69.6	Aqr
27 Mai 2020	23h26m40.80s	-04 44' 22.5"	29.931	30.170	7.9	75.4	1.9	-5.51	90.47	2.16	69.7	Aqr

EPHEMERIDE 2020 – NEPTUN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
23 Okt 2020	23h18m30.00s	-05 40' 19.8"	29.928	29.176	7.8	138.5	1.3	15.55	238.77	2.85	248.1	Aqr
24 Okt 2020	23h18m25.84s	-05 40' 45.1"	29.928	29.188	7.8	137.5	1.3	15.01	239.64	2.78	248.1	Aqr
25 Okt 2020	23h18m21.76s	-05 41' 09.8"	29.928	29.200	7.8	136.4	1.3	14.47	240.51	2.72	248.2	Aqr
26 Okt 2020	23h18m17.78s	-05 41' 33.8"	29.928	29.212	7.8	135.4	1.3	13.93	241.37	2.66	248.2	Aqr
27 Okt 2020	23h18m13.89s	-05 41' 57.3"	29.928	29.224	7.8	134.4	1.4	13.38	242.23	2.59	248.3	Aqr
28 Okt 2020	23h18m10.10s	-05 42' 20.1"	29.928	29.237	7.8	133.4	1.4	12.82	243.08	2.52	248.3	Aqr
29 Okt 2020	23h18m06.40s	-05 42' 42.2"	29.928	29.249	7.8	132.4	1.4	12.26	243.92	2.46	248.4	Aqr
30 Okt 2020	23h18m02.80s	-05 43' 03.7"	29.928	29.262	7.8	131.4	1.4	11.70	244.76	2.39	248.5	Aqr
31 Okt 2020	23h17m59.31s	-05 43' 24.5"	29.928	29.276	7.8	130.4	1.4	11.14	245.60	2.32	248.5	Aqr
1 Nov 2020	23h17m55.91s	-05 43' 44.6"	29.928	29.289	7.8	129.3	1.5	10.57	246.43	2.25	248.6	Aqr
2 Nov 2020	23h17m52.62s	-05 44' 04.1"	29.928	29.303	7.8	128.3	1.5	10.00	247.26	2.18	248.7	Aqr
3 Nov 2020	23h17m49.43s	-05 44' 22.9"	29.928	29.316	7.8	127.3	1.5	9.43	248.08	2.11	248.8	Aqr
4 Nov 2020	23h17m46.34s	-05 44' 41.0"	29.928	29.330	7.8	126.3	1.5	8.85	248.90	2.03	248.8	Aqr
5 Nov 2020	23h17m43.37s	-05 44' 58.3"	29.928	29.344	7.8	125.3	1.5	8.27	249.72	1.96	248.9	Aqr
6 Nov 2020	23h17m40.50s	-05 45' 15.0"	29.928	29.359	7.8	124.3	1.6	7.69	250.53	1.88	249.0	Aqr
7 Nov 2020	23h17m37.74s	-05 45' 31.0"	29.928	29.373	7.9	123.2	1.6	7.10	251.34	1.81	249.1	Aqr
8 Nov 2020	23h17m35.09s	-05 45' 46.2"	29.928	29.388	7.9	122.2	1.6	6.52	252.14	1.73	249.2	Aqr
9 Nov 2020	23h17m32.55s	-05 46' 00.7"	29.928	29.402	7.9	121.2	1.6	5.93	252.95	1.66	249.4	Aqr
10 Nov 2020	23h17m30.12s	-05 46' 14.4"	29.928	29.417	7.9	120.2	1.6	5.34	253.75	1.58	249.5	Aqr
11 Nov 2020	23h17m27.81s	-05 46' 27.5"	29.928	29.432	7.9	119.2	1.7	4.74	254.54	1.50	249.7	Aqr
12 Nov 2020	23h17m25.62s	-05 46' 39.7"	29.928	29.448	7.9	118.2	1.7	4.15	255.34	1.42	249.8	Aqr
13 Nov 2020	23h17m23.54s	-05 46' 51.2"	29.928	29.463	7.9	117.2	1.7	3.55	256.13	1.34	250.0	Aqr
14 Nov 2020	23h17m21.58s	-05 47' 01.9"	29.928	29.479	7.9	116.1	1.7	2.95	256.92	1.26	250.2	Aqr
15 Nov 2020	23h17m19.74s	-05 47' 11.9"	29.928	29.494	7.9	115.1	1.7	2.35	257.70	1.18	250.5	Aqr
16 Nov 2020	23h17m18.02s	-05 47' 21.1"	29.928	29.510	7.9	114.1	1.7	1.75	258.49	1.09	250.7	Aqr
17 Nov 2020	23h17m16.43s	-05 47' 29.5"	29.928	29.526	7.9	113.1	1.7	1.15	259.27	1.01	251.1	Aqr
18 Nov 2020	23h17m14.95s	-05 47' 37.1"	29.928	29.542	7.9	112.1	1.8	0.55	260.05	0.93	251.5	Aqr
19 Nov 2020	23h17m13.59s	-05 47' 43.9"	29.928	29.558	7.9	111.1	1.8	-0.06	260.83	0.84	251.9	Aqr
20 Nov 2020	23h17m12.36s	-05 47' 49.9"	29.928	29.574	7.9	110.1	1.8	-0.66	261.61	0.76	252.5	Aqr
21 Nov 2020	23h17m11.26s	-05 47' 55.1"	29.928	29.591	7.9	109.0	1.8	-1.27	262.39	0.67	253.2	Aqr
22 Nov 2020	23h17m10.28s	-05 47' 59.5"	29.928	29.607	7.9	108.0	1.8	-1.87	263.16	0.59	254.1	Aqr
23 Nov 2020	23h17m09.42s	-05 48' 03.1"	29.928	29.624	7.9	107.0	1.8	-2.48	263.94	0.51	255.3	Aqr
24 Nov 2020	23h17m08.69s	-05 48' 05.9"	29.928	29.640	7.9	106.0	1.8	-3.09	264.71	0.42	257.0	Aqr
25 Nov 2020	23h17m08.08s	-05 48' 07.9"	29.928	29.657	7.9	105.0	1.8	-3.69	265.49	0.34	259.6	Aqr
26 Nov 2020	23h17m07.60s	-05 48' 09.1"	29.928	29.674	7.9	104.0	1.8	-4.30	266.26	0.25	263.8	Aqr
27 Nov 2020	23h17m07.25s	-05 48' 09.5"	29.928	29.691	7.9	103.0	1.8	-4.91	267.04	0.17	272.2	Aqr
28 Nov 2020	23h17m07.02s	-05 48' 09.1"	29.928	29.708	7.9	101.9	1.8	-5.52	267.81	0.10	293.5	Aqr
29 Nov 2020	23h17m06.92s	-05 48' 07.8"	29.927	29.725	7.9	100.9	1.9	-6.13	268.59	0.08	350.0	Aqr
30 Nov 2020	23h17m06.94s	-05 48' 05.8"	29.927	29.742	7.9	99.9	1.9	-6.73	269.36	0.13	31.8	Aqr
1 Dez 2020	23h17m07.10s	-05 48' 02.9"	29.927	29.759	7.9	98.9	1.9	-7.34	270.14	0.20	46.0	Aqr
2 Dez 2020	23h17m07.38s	-05 47' 59.2"	29.927	29.776	7.9	97.9	1.9	-7.94	270.91	0.29	52.3	Aqr
3 Dez 2020	23h17m07.79s	-05 47' 54.7"	29.927	29.793	7.9	96.9	1.9	-8.55	271.69	0.37	55.7	Aqr
4 Dez 2020	23h17m08.32s	-05 47' 49.4"	29.927	29.810	7.9	95.9	1.9	-9.15	272.47	0.46	57.9	Aqr
5 Dez 2020	23h17m08.99s	-05 47' 43.3"	29.927	29.828	7.9	94.9	1.9	-9.76	273.25	0.54	59.4	Aqr
6 Dez 2020	23h17m09.78s	-05 47' 36.4"	29.927	29.845	7.9	93.9	1.9	-10.36	274.03	0.63	60.4	Aqr
7 Dez 2020	23h17m10.70s	-05 47' 28.6"	29.927	29.862	7.9	92.8	1.9	-10.96	274.81	0.72	61.3	Aqr
8 Dez 2020	23h17m11.75s	-05 47' 20.1"	29.927	29.880	7.9	91.8	1.9	-11.56	275.60	0.80	61.9	Aqr
9 Dez 2020	23h17m12.93s	-05 47' 10.7"	29.927	29.897	7.9	90.8	1.9	-12.16	276.38	0.89	62.4	Aqr
10 Dez 2020	23h17m14.23s	-05 47' 00.5"	29.927	29.914	7.9	89.8	1.9	-12.76	277.17	0.98	62.9	Aqr
11 Dez 2020	23h17m15.67s	-05 46' 49.5"	29.927	29.932	7.9	88.8	1.9	-13.36	277.97	1.07	63.2	Aqr
12 Dez 2020	23h17m17.23s	-05 46' 37.7"	29.927	29.949	7.9	87.8	1.9	-13.95	278.76	1.15	63.5	Aqr
13 Dez 2020	23h17m18.92s	-05 46' 25.1"	29.927	29.966	7.9	86.8	1.9	-14.54	279.56	1.24	63.8	Aqr
14 Dez 2020	23h17m20.74s	-05 46' 11.7"	29.927	29.984	7.9	85.8	1.9	-15.14	280.36	1.33	64.0	Aqr
15 Dez 2020	23h17m22.69s	-05 45' 57.5"	29.927	30.001	7.9	84.8	1.9	-15.72	281.16	1.41	64.2	Aqr
16 Dez 2020	23h17m24.77s	-05 45' 42.4"	29.927	30.018	7.9	83.8	1.9	-16.31	281.97	1.50	64.4	Aqr
17 Dez 2020	23h17m26.97s	-05 45' 26.6"	29.927	30.035	7.9	82.8	1.9	-16.90	282.78	1.59	64.6	Aqr
18 Dez 2020	23h17m29.30s	-05 45' 10.0"	29.927	30.053	7.9	81.7	1.9	-17.48	283.59	1.67	64.7	Aqr
19 Dez 2020	23h17m31.75s	-05 44' 52.6"	29.927	30.070	7.9	80.7	1.9	-18.06	284.41	1.76	64.8	Aqr
20 Dez 2020	23h17m34.33s	-05 44' 34.4"	29.927	30.087	7.9	79.7	1.9	-18.63	285.23	1.84	65.0	Aqr
21 Dez 2020	23h17m37.04s	-05 44' 15.4"	29.927	30.104	7.9	78.7	1.8	-19.21	286.06	1.93	65.1	Aqr
22 Dez 2020	23h17m39.86s	-05 43' 55.6"	29.927	30.121	7.9	77.7	1.8	-19.78	286.89	2.01	65.2	Aqr
23 Dez 2020	23h17m42.81s	-05 43' 35.1"	29.927	30.138	7.9	76.7	1.8	-20.35	287.72	2.09	65.3	Aqr
24 Dez 2020	23h17m45.89s	-05 43' 13.8"	29.927	30.155	7.9	75.7	1.8	-20.91	288.56	2.18	65.3	Aqr
25 Dez 2020	23h17m49.08s	-05 42' 51.8"	29.927	30.171	7.9	74.7	1.8	-21.48	289.41	2.26	65.4	Aqr
26 Dez 2020	23h17m52.39s	-05 42' 29.0"	29.927	30.188	7.9	73.7	1.8	-22.03	290.26	2.34	65.5	Aqr
27 Dez 2020	23h17m55.83s	-05 42' 05.4"	29.927	30.205	7.9	72.7	1.8	-22.59	291.11	2.42	65.6	Aqr
28 Dez 2020	23h17m59.38s	-05 41' 41.1"	29.927	30.221	7.9	71.7	1.8	-23.14	291.97	2.50	65.6	Aqr
29 Dez 2020	23h18m03.05s	-05 41' 16.1"	29.927	30.238	7.9	70.7	1.8	-23.69	292.84	2.58	65.7	Aqr
30 Dez 2020	23h18m06.84s	-05 40' 50.3"	29.927	30.254	7.9	69.7	1.8	-24.23	293.71	2.66	65.7	Aqr
31 Dez 2020	23h18m10.75s	-05 40' 23.9"	29.927	30.270	7.9	68.7	1.8	-24.77	294.59	2.74	65.8	Aqr
1 Jan 2021	23h18m14.76s	-05 39' 56.7"	29.927	30.286	7.9	67.7	1.7	-25.30	295.48	2.82	65.8	Aqr