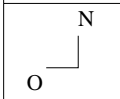


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Die Bahn des Planeten Neptun 2018

# EPHEMERIDE 2018 – NEPTUN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
1 Jan 2018	22h53m43.85s	-08 02' 01.9"	29.945	30.403	7.9	61.4	1.7	-30.52	299.53	3.29	67.0	Aqr
2 Jan 2018	22h53m48.75s	-08 01' 30.7"	29.945	30.418	7.9	60.4	1.6	-31.03	300.47	3.37	67.0	Aqr
3 Jan 2018	22h53m53.75s	-08 00' 58.9"	29.945	30.433	7.9	59.4	1.6	-31.53	301.42	3.44	67.0	Aqr
4 Jan 2018	22h53m58.86s	-08 00' 26.5"	29.945	30.448	7.9	58.4	1.6	-32.03	302.38	3.51	67.0	Aqr
5 Jan 2018	22h54m04.07s	-07 59' 53.5"	29.945	30.463	7.9	57.4	1.6	-32.52	303.35	3.58	67.1	Aqr
6 Jan 2018	22h54m09.39s	-07 59' 19.8"	29.945	30.477	7.9	56.4	1.6	-33.01	304.32	3.65	67.1	Aqr
7 Jan 2018	22h54m14.80s	-07 58' 45.5"	29.945	30.492	7.9	55.4	1.5	-33.49	305.31	3.72	67.1	Aqr
8 Jan 2018	22h54m20.32s	-07 58' 10.6"	29.945	30.506	7.9	54.4	1.5	-33.96	306.31	3.78	67.1	Aqr
9 Jan 2018	22h54m25.94s	-07 57' 35.1"	29.945	30.520	7.9	53.4	1.5	-34.42	307.31	3.85	67.2	Aqr
10 Jan 2018	22h54m31.66s	-07 56' 59.0"	29.945	30.534	7.9	52.4	1.5	-34.88	308.33	3.92	67.2	Aqr
11 Jan 2018	22h54m37.48s	-07 56' 22.3"	29.945	30.548	7.9	51.5	1.5	-35.34	309.35	3.98	67.2	Aqr
12 Jan 2018	22h54m43.39s	-07 55' 45.1"	29.945	30.561	7.9	50.5	1.5	-35.78	310.38	4.05	67.2	Aqr
13 Jan 2018	22h54m49.40s	-07 55' 07.3"	29.945	30.574	7.9	49.5	1.4	-36.22	311.43	4.11	67.2	Aqr
14 Jan 2018	22h54m55.49s	-07 54' 28.9"	29.945	30.588	7.9	48.5	1.4	-36.65	312.48	4.17	67.2	Aqr
15 Jan 2018	22h55m01.69s	-07 53' 50.0"	29.945	30.601	7.9	47.5	1.4	-37.07	313.55	4.23	67.3	Aqr
16 Jan 2018	22h55m07.97s	-07 53' 10.6"	29.945	30.613	7.9	46.5	1.4	-37.49	314.62	4.29	67.3	Aqr
17 Jan 2018	22h55m14.34s	-07 52' 30.6"	29.944	30.626	7.9	45.5	1.3	-37.90	315.71	4.35	67.3	Aqr
18 Jan 2018	22h55m20.80s	-07 51' 50.2"	29.944	30.638	7.9	44.5	1.3	-38.30	316.80	4.41	67.3	Aqr
19 Jan 2018	22h55m27.34s	-07 51' 09.2"	29.944	30.650	7.9	43.5	1.3	-38.69	317.91	4.46	67.3	Aqr
20 Jan 2018	22h55m33.96s	-07 50' 27.7"	29.944	30.662	7.9	42.5	1.3	-39.07	319.03	4.52	67.3	Aqr
21 Jan 2018	22h55m40.67s	-07 49' 45.7"	29.944	30.674	7.9	41.5	1.2	-39.44	320.15	4.57	67.4	Aqr
22 Jan 2018	22h55m47.46s	-07 49' 03.3"	29.944	30.685	7.9	40.6	1.2	-39.80	321.29	4.63	67.4	Aqr
23 Jan 2018	22h55m54.32s	-07 48' 20.4"	29.944	30.697	7.9	39.6	1.2	-40.15	322.44	4.68	67.4	Aqr
24 Jan 2018	22h56m01.26s	-07 47' 37.0"	29.944	30.708	7.9	38.6	1.2	-40.50	323.60	4.73	67.4	Aqr
25 Jan 2018	22h56m08.28s	-07 46' 53.3"	29.944	30.718	7.9	37.6	1.1	-40.83	324.77	4.78	67.4	Aqr
26 Jan 2018	22h56m15.37s	-07 46' 09.0"	29.944	30.729	7.9	36.6	1.1	-41.16	325.95	4.83	67.4	Aqr
27 Jan 2018	22h56m22.53s	-07 45' 24.4"	29.944	30.739	8.0	35.6	1.1	-41.47	327.14	4.87	67.4	Aqr
28 Jan 2018	22h56m29.75s	-07 44' 39.4"	29.944	30.749	8.0	34.7	1.1	-41.77	328.34	4.92	67.4	Aqr
29 Jan 2018	22h56m37.05s	-07 43' 53.9"	29.944	30.759	8.0	33.7	1.0	-42.06	329.55	4.96	67.5	Aqr
30 Jan 2018	22h56m44.41s	-07 43' 08.1"	29.944	30.769	8.0	32.7	1.0	-42.34	330.77	5.01	67.5	Aqr
31 Jan 2018	22h56m51.83s	-07 42' 21.9"	29.944	30.778	8.0	31.7	1.0	-42.61	332.00	5.05	67.5	Aqr
1 Feb 2018	22h56m59.32s	-07 41' 35.3"	29.944	30.787	8.0	30.7	1.0	-42.87	333.24	5.09	67.5	Aqr
2 Feb 2018	22h57m06.87s	-07 40' 48.4"	29.944	30.796	8.0	29.7	0.9	-43.12	334.49	5.13	67.5	Aqr
3 Feb 2018	22h57m14.47s	-07 40' 01.2"	29.944	30.804	8.0	28.8	0.9	-43.35	335.75	5.17	67.5	Aqr
4 Feb 2018	22h57m22.13s	-07 39' 13.6"	29.944	30.813	8.0	27.8	0.9	-43.58	337.01	5.21	67.5	Aqr
5 Feb 2018	22h57m29.85s	-07 38' 25.7"	29.944	30.821	8.0	26.8	0.9	-43.79	338.29	5.24	67.5	Aqr
6 Feb 2018	22h57m37.62s	-07 37' 37.5"	29.944	30.829	8.0	25.8	0.8	-43.98	339.57	5.28	67.5	Aqr
7 Feb 2018	22h57m45.44s	-07 36' 48.9"	29.944	30.836	8.0	24.9	0.8	-44.17	340.86	5.31	67.5	Aqr
8 Feb 2018	22h57m53.32s	-07 36' 00.1"	29.944	30.843	8.0	23.9	0.8	-44.34	342.16	5.34	67.6	Aqr
9 Feb 2018	22h58m01.24s	-07 35' 11.1"	29.944	30.850	8.0	22.9	0.7	-44.50	343.46	5.38	67.6	Aqr
10 Feb 2018	22h58m09.21s	-07 34' 21.7"	29.944	30.857	8.0	21.9	0.7	-44.65	344.77	5.41	67.6	Aqr
11 Feb 2018	22h58m17.22s	-07 33' 32.1"	29.944	30.864	8.0	20.9	0.7	-44.78	346.08	5.43	67.6	Aqr
12 Feb 2018	22h58m25.28s	-07 32' 42.3"	29.944	30.870	8.0	20.0	0.6	-44.91	347.40	5.46	67.6	Aqr
13 Feb 2018	22h58m33.37s	-07 31' 52.2"	29.944	30.876	8.0	19.0	0.6	-45.01	348.73	5.49	67.6	Aqr
14 Feb 2018	22h58m41.61s	-07 31' 01.9"	29.944	30.882	8.0	18.0	0.6	-45.11	350.06	5.51	67.6	Aqr
15 Feb 2018	22h58m49.68s	-07 30' 11.4"	29.944	30.887	8.0	17.1	0.6	-45.19	351.39	5.54	67.6	Aqr
16 Feb 2018	22h58m57.88s	-07 29' 20.7"	29.944	30.892	8.0	16.1	0.5	-45.25	352.73	5.56	67.6	Aqr
17 Feb 2018	22h59m06.12s	-07 28' 29.8"	29.944	30.897	8.0	15.1	0.5	-45.31	354.07	5.58	67.6	Aqr
18 Feb 2018	22h59m14.39s	-07 27' 38.8"	29.944	30.901	8.0	14.1	0.5	-45.35	355.41	5.60	67.6	Aqr
19 Feb 2018	22h59m22.69s	-07 26' 47.6"	29.944	30.906	8.0	13.2	0.4	-45.37	356.75	5.62	67.7	Aqr
20 Feb 2018	22h59m31.01s	-07 25' 56.2"	29.944	30.910	8.0	12.2	0.4	-45.39	358.09	5.64	67.7	Aqr
21 Feb 2018	22h59m39.36s	-07 25' 04.8"	29.944	30.913	8.0	11.2	0.4	-45.38	359.44	5.65	67.7	Aqr
22 Feb 2018	22h59m47.73s	-07 24' 13.2"	29.944	30.917	8.0	10.3	0.3	-45.37	0.78	5.66	67.7	Aqr
23 Feb 2018	22h59m56.12s	-07 23' 21.5"	29.944	30.920	8.0	9.3	0.3	-45.34	2.12	5.68	67.7	Aqr
24 Feb 2018	23h00m04.53s	-07 22' 29.7"	29.944	30.923	8.0	8.3	0.3	-45.30	3.46	5.69	67.7	Aqr
25 Feb 2018	23h00m12.95s	-07 21' 37.8"	29.944	30.925	8.0	7.4	0.2	-45.24	4.80	5.70	67.7	Aqr
26 Feb 2018	23h00m21.39s	-07 20' 45.9"	29.944	30.927	8.0	6.4	0.2	-45.17	6.13	5.71	67.7	Aqr
27 Feb 2018	23h00m29.84s	-07 19' 53.9"	29.944	30.929	8.0	5.5	0.2	-45.09	7.46	5.71	67.7	Aqr
28 Feb 2018	23h00m38.30s	-07 19' 01.9"	29.944	30.931	8.0	4.5	0.1	-44.99	8.79	5.72	67.7	Aqr
1 Mar 2018	23h00m46.77s	-07 18' 09.8"	29.944	30.933	8.0	3.6	0.1	-44.88	10.11	5.72	67.7	Aqr
2 Mar 2018	23h00m55.25s	-07 17' 17.7"	29.944	30.934	8.0	2.6	0.1	-44.75	11.43	5.73	67.7	Aqr
3 Mar 2018	23h01m03.73s	-07 16' 25.6"	29.944	30.934	8.0	1.8	0.1	-44.62	12.74	5.73	67.8	Aqr
4 Mar 2018	23h01m12.22s	-07 15' 33.5"	29.944	30.935	8.0	1.1	0.0	-44.47	14.05	5.73	67.8	Aqr
5 Mar 2018	23h01m20.70s	-07 14' 41.5"	29.944	30.935	8.0	1.0	0.0	-44.30	15.35	5.73	67.8	Aqr
6 Mar 2018	23h01m29.19s	-07 13' 49.4"	29.944	30.935	8.0	1.6	0.1	-44.13	16.64	5.73	67.8	Aqr
7 Mar 2018	23h01m37.67s	-07 12' 57.4"	29.944	30.935	8.0	2.5	0.1	-43.94	17.93	5.73	67.8	Aqr
8 Mar 2018	23h01m46.15s	-07 12' 05.4"	29.944	30.934	8.0	3.4	0.1	-43.74	19.20	5.72	67.8	Aqr
9 Mar 2018	23h01m54.63s	-07 11' 13.5"	29.944	30.933	8.0	4.4	0.1	-43.53	20.47	5.72	67.8	Aqr
10 Mar 2018	23h02m03.10s	-07 10' 21.6"	29.944	30.932	8.0	5.3	0.2	-43.30	21.73	5.71	67.8	Aqr
11 Mar 2018	23h02m11.55s	-07 09' 29.9"	29.944	30.931	8.0	6.2	0.2	-43.06	22.99	5.70	67.8	Aqr
12 Mar 2018	23h02m20.00s	-07 08' 38.2"	29.944	30.929	8.0	7.2	0.2	-42.82	24.23	5.70	67.8	Aqr
13 Mar 2018	23h02m28.43s	-07 07' 46.6"	29.944	30.927	8.0	8.2	0.3	-42.56	25.46	5.69	67.8	Aqr
14 Mar 2018	23h02m36.85s	-07 06' 55.2"	29.944	30.925	8.0	9.1	0.3	-42.28	26.69	5.67	67.9	Aqr
15 Mar 2018	23h02m45.25s	-07 06' 03.8"	29.943	30.922	8.0	10.1	0.3	-42.00	27.90	5.66	67.9	Aqr

# EPHEMERIDE 2018 – NEPTUN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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16 Mar 2018	23h02m53.63s	-07 05' 12.7"	29.943	30.919	8.0	11.0	0.4	-41.71	29.11	5.65	67.9	Aqr
17 Mar 2018	23h03m01.99s	-07 04' 21.6"	29.943	30.916	8.0	12.0	0.4	-41.40	30.30	5.63	67.9	Aqr
18 Mar 2018	23h03m10.32s	-07 03' 30.8"	29.943	30.913	8.0	12.9	0.4	-41.09	31.48	5.61	67.9	Aqr
19 Mar 2018	23h03m18.63s	-07 02' 40.1"	29.943	30.909	8.0	13.9	0.5	-40.77	32.66	5.59	67.9	Aqr
20 Mar 2018	23h03m26.91s	-07 01' 49.6"	29.943	30.905	8.0	14.8	0.5	-40.43	33.82	5.58	67.9	Aqr
21 Mar 2018	23h03m35.16s	-07 00' 59.3"	29.943	30.901	8.0	15.8	0.5	-40.09	34.97	5.55	67.9	Aqr
22 Mar 2018	23h03m43.38s	-07 00' 09.3"	29.943	30.896	8.0	16.8	0.5	-39.73	36.11	5.53	67.9	Aqr
23 Mar 2018	23h03m51.57s	-06 59' 19.5"	29.943	30.891	8.0	17.7	0.6	-39.37	37.25	5.51	67.9	Aqr
24 Mar 2018	23h03m59.72s	-06 58' 29.9"	29.943	30.886	8.0	18.7	0.6	-39.00	38.37	5.48	68.0	Aqr
25 Mar 2018	23h04m07.83s	-06 57' 40.5"	29.943	30.881	8.0	19.6	0.6	-38.62	39.48	5.46	68.0	Aqr
26 Mar 2018	23h04m15.91s	-06 56' 51.4"	29.943	30.875	8.0	20.6	0.7	-38.23	40.57	5.43	68.0	Aqr
27 Mar 2018	23h04m23.95s	-06 56' 02.6"	29.943	30.869	8.0	21.5	0.7	-37.83	41.66	5.40	68.0	Aqr
28 Mar 2018	23h04m31.94s	-06 55' 14.1"	29.943	30.863	8.0	22.5	0.7	-37.42	42.74	5.37	68.0	Aqr
29 Mar 2018	23h04m39.89s	-06 54' 25.9"	29.943	30.857	8.0	23.4	0.8	-37.01	43.81	5.34	68.0	Aqr
30 Mar 2018	23h04m47.79s	-06 53' 37.9"	29.943	30.850	8.0	24.4	0.8	-36.58	44.87	5.31	68.0	Aqr
31 Mar 2018	23h04m55.65s	-06 52' 50.3"	29.943	30.843	8.0	25.3	0.8	-36.15	45.91	5.28	68.0	Aqr
1 Apr 2018	23h05m03.46s	-06 52' 03.0"	29.943	30.836	8.0	26.3	0.8	-35.72	46.95	5.24	68.1	Aqr
2 Apr 2018	23h05m11.22s	-06 51' 16.1"	29.943	30.828	8.0	27.2	0.9	-35.27	47.98	5.21	68.1	Aqr
3 Apr 2018	23h05m18.93s	-06 50' 29.5"	29.943	30.821	8.0	28.2	0.9	-34.82	48.99	5.17	68.1	Aqr
4 Apr 2018	23h05m26.58s	-06 49' 43.2"	29.943	30.813	8.0	29.1	0.9	-34.36	50.00	5.13	68.1	Aqr
5 Apr 2018	23h05m34.18s	-06 48' 57.3"	29.943	30.804	8.0	30.1	1.0	-33.90	51.00	5.10	68.1	Aqr
6 Apr 2018	23h05m41.72s	-06 48' 11.8"	29.943	30.796	8.0	31.0	1.0	-33.42	51.98	5.06	68.1	Aqr
7 Apr 2018	23h05m49.21s	-06 47' 26.6"	29.943	30.787	8.0	32.0	1.0	-32.95	52.96	5.02	68.1	Aqr
8 Apr 2018	23h05m56.63s	-06 46' 41.9"	29.943	30.778	8.0	32.9	1.0	-32.46	53.93	4.98	68.2	Aqr
9 Apr 2018	23h06m04.00s	-06 45' 57.6"	29.943	30.769	8.0	33.9	1.1	-31.97	54.89	4.93	68.2	Aqr
10 Apr 2018	23h06m11.30s	-06 45' 13.6"	29.943	30.760	8.0	34.8	1.1	-31.48	55.84	4.89	68.2	Aqr
11 Apr 2018	23h06m18.53s	-06 44' 30.1"	29.943	30.750	8.0	35.8	1.1	-30.98	56.79	4.84	68.2	Aqr
12 Apr 2018	23h06m25.70s	-06 43' 47.1"	29.943	30.740	8.0	36.7	1.1	-30.47	57.72	4.80	68.2	Aqr
13 Apr 2018	23h06m32.81s	-06 43' 04.4"	29.943	30.730	7.9	37.7	1.2	-29.96	58.65	4.75	68.2	Aqr
14 Apr 2018	23h06m39.84s	-06 42' 22.3"	29.943	30.720	7.9	38.6	1.2	-29.45	59.57	4.70	68.3	Aqr
15 Apr 2018	23h06m46.80s	-06 41' 40.6"	29.943	30.709	7.9	39.6	1.2	-28.92	60.48	4.65	68.3	Aqr
16 Apr 2018	23h06m53.69s	-06 40' 59.4"	29.943	30.699	7.9	40.5	1.2	-28.40	61.38	4.60	68.3	Aqr
17 Apr 2018	23h07m00.50s	-06 40' 18.6"	29.943	30.688	7.9	41.5	1.3	-27.87	62.28	4.55	68.3	Aqr
18 Apr 2018	23h07m07.24s	-06 39' 38.4"	29.943	30.676	7.9	42.4	1.3	-27.34	63.16	4.50	68.3	Aqr
19 Apr 2018	23h07m13.90s	-06 38' 58.6"	29.943	30.665	7.9	43.4	1.3	-26.80	64.05	4.44	68.3	Aqr
20 Apr 2018	23h07m20.48s	-06 38' 19.4"	29.943	30.653	7.9	44.3	1.3	-26.25	64.92	4.39	68.4	Aqr
21 Apr 2018	23h07m26.97s	-06 37' 40.7"	29.943	30.642	7.9	45.3	1.4	-25.71	65.79	4.33	68.4	Aqr
22 Apr 2018	23h07m33.39s	-06 37' 02.5"	29.943	30.630	7.9	46.2	1.4	-25.16	66.65	4.28	68.4	Aqr
23 Apr 2018	23h07m39.72s	-06 36' 24.9"	29.943	30.617	7.9	47.2	1.4	-24.61	67.51	4.22	68.4	Aqr
24 Apr 2018	23h07m45.97s	-06 35' 47.8"	29.943	30.605	7.9	48.1	1.4	-24.05	68.35	4.16	68.5	Aqr
25 Apr 2018	23h07m52.14s	-06 35' 11.3"	29.943	30.592	7.9	49.1	1.5	-23.49	69.20	4.10	68.5	Aqr
26 Apr 2018	23h07m58.21s	-06 34' 35.4"	29.943	30.580	7.9	50.0	1.5	-22.93	70.04	4.04	68.5	Aqr
27 Apr 2018	23h08m04.20s	-06 34' 00.0"	29.943	30.567	7.9	50.9	1.5	-22.36	70.87	3.98	68.5	Aqr
28 Apr 2018	23h08m10.10s	-06 33' 25.2"	29.943	30.554	7.9	51.9	1.5	-21.79	71.70	3.92	68.6	Aqr
29 Apr 2018	23h08m15.91s	-06 32' 50.9"	29.943	30.540	7.9	52.8	1.5	-21.22	72.52	3.86	68.6	Aqr
30 Apr 2018	23h08m21.62s	-06 32' 17.3"	29.943	30.527	7.9	53.8	1.6	-20.64	73.34	3.80	68.6	Aqr
1 Mai 2018	23h08m27.25s	-06 31' 44.2"	29.943	30.513	7.9	54.7	1.6	-20.07	74.15	3.73	68.7	Aqr
2 Mai 2018	23h08m32.78s	-06 31' 11.8"	29.943	30.499	7.9	55.7	1.6	-19.49	74.96	3.67	68.7	Aqr
3 Mai 2018	23h08m38.22s	-06 30' 40.0"	29.943	30.485	7.9	56.6	1.6	-18.91	75.76	3.60	68.7	Aqr
4 Mai 2018	23h08m43.56s	-06 30' 08.8"	29.943	30.471	7.9	57.6	1.6	-18.32	76.57	3.54	68.8	Aqr
5 Mai 2018	23h08m48.80s	-06 29' 38.2"	29.943	30.457	7.9	58.5	1.6	-17.74	77.36	3.47	68.8	Aqr
6 Mai 2018	23h08m53.95s	-06 29' 08.2"	29.943	30.443	7.9	59.5	1.7	-17.15	78.16	3.40	68.8	Aqr
7 Mai 2018	23h08m58.99s	-06 28' 38.9"	29.943	30.428	7.9	60.4	1.7	-16.56	78.95	3.33	68.9	Aqr
8 Mai 2018	23h09m03.94s	-06 28' 10.3"	29.943	30.413	7.9	61.3	1.7	-15.97	79.73	3.27	68.9	Aqr
9 Mai 2018	23h09m08.78s	-06 27' 42.3"	29.943	30.399	7.9	62.3	1.7	-15.38	80.52	3.20	69.0	Aqr
10 Mai 2018	23h09m13.52s	-06 27' 14.9"	29.943	30.384	7.9	63.2	1.7	-14.78	81.30	3.13	69.0	Aqr
11 Mai 2018	23h09m18.16s	-06 26' 48.2"	29.943	30.368	7.9	64.2	1.7	-14.19	82.08	3.05	69.0	Aqr
12 Mai 2018	23h09m22.69s	-06 26' 22.2"	29.943	30.353	7.9	65.1	1.8	-13.59	82.85	2.98	69.1	Aqr
13 Mai 2018	23h09m27.12s	-06 25' 56.9"	29.942	30.338	7.9	66.1	1.8	-12.99	83.63	2.91	69.1	Aqr
14 Mai 2018	23h09m31.44s	-06 25' 32.2"	29.942	30.322	7.9	67.0	1.8	-12.39	84.40	2.84	69.2	Aqr
15 Mai 2018	23h09m35.65s	-06 25' 08.3"	29.942	30.307	7.9	68.0	1.8	-11.80	85.17	2.76	69.3	Aqr
16 Mai 2018	23h09m39.75s	-06 24' 45.0"	29.942	30.291	7.9	68.9	1.8	-11.19	85.93	2.69	69.3	Aqr
17 Mai 2018	23h09m43.74s	-06 24' 22.5"	29.942	30.275	7.9	69.9	1.8	-10.59	86.70	2.61	69.4	Aqr
18 Mai 2018	23h09m47.62s	-06 24' 00.6"	29.942	30.260	7.9	70.8	1.8	-9.99	87.47	2.54	69.5	Aqr
19 Mai 2018	23h09m51.39s	-06 23' 39.5"	29.942	30.244	7.9	71.8	1.8	-9.39	88.23	2.46	69.5	Aqr
20 Mai 2018	23h09m55.05s	-06 23' 19.0"	29.942	30.228	7.9	72.7	1.8	-8.79	88.99	2.38	69.6	Aqr
21 Mai 2018	23h09m58.59s	-06 22' 59.3"	29.942	30.211	7.9	73.7	1.9	-8.18	89.75	2.31	69.7	Aqr
22 Mai 2018	23h10m02.02s	-06 22' 40.4"	29.942	30.195	7.9	74.6	1.9	-7.58	90.52	2.23	69.8	Aqr
23 Mai 2018	23h10m05.34s	-06 22' 22.1"	29.942	30.179	7.9	75.5	1.9	-6.98	91.28	2.15	69.9	Aqr
24 Mai 2018	23h10m08.54s	-06 22' 04.6"	29.942	30.163	7.9	76.5	1.9	-6.38	92.04	2.07	70.0	Aqr
25 Mai 2018	23h10m11.63s	-06 21' 47.8"	29.942	30.146	7.9	77.4	1.9	-5.77	92.80	1.99	70.1	Aqr
26 Mai 2018	23h10m14.60s	-06 21' 31.8"	29.942	30.130	7.9	78.4	1.9	-5.17	93.56	1.92	70.2	Aqr
27 Mai 2018	23h10m17.46s	-06 21' 16.4"	29.942	30.113	7.9	79.3	1.9	-4.57	94.32	1.84	70.4	Aqr
28 Mai 2018	23h10m20.20s	-06 21' 01.9"	29.942	30.097	7.9	80.3	1.9	-3.97	95.08	1.76	70.5	Aqr





# EPHEMERIDE 2018 – NEPTUN

Datum	RA	Deklination	r	delta	mag	Elong	Phase	Höhe	Az.	Gesch.	PA	Stb
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24 Okt 2018	23h01m30.98s	-07 19' 27.2"	29.940	29.247	7.8	133.4	1.4	11.60	241.94	2.52	248.6	Aqr
25 Okt 2018	23h01m27.27s	-07 19' 49.1"	29.940	29.260	7.8	132.4	1.4	11.05	242.78	2.45	248.6	Aqr
26 Okt 2018	23h01m23.66s	-07 20' 10.4"	29.940	29.273	7.8	131.4	1.4	10.50	243.61	2.39	248.7	Aqr
27 Okt 2018	23h01m20.15s	-07 20' 31.1"	29.940	29.286	7.8	130.4	1.4	9.94	244.45	2.32	248.7	Aqr
28 Okt 2018	23h01m16.74s	-07 20' 51.1"	29.940	29.299	7.8	129.4	1.5	9.38	245.28	2.25	248.8	Aqr
29 Okt 2018	23h01m13.43s	-07 21' 10.4"	29.940	29.313	7.8	128.4	1.5	8.81	246.10	2.18	248.9	Aqr
30 Okt 2018	23h01m10.22s	-07 21' 29.1"	29.940	29.327	7.8	127.4	1.5	8.24	246.92	2.11	248.9	Aqr
31 Okt 2018	23h01m07.13s	-07 21' 47.1"	29.940	29.341	7.8	126.3	1.5	7.67	247.74	2.03	249.0	Aqr
1 Nov 2018	23h01m04.13s	-07 22' 04.4"	29.940	29.355	7.8	125.3	1.5	7.09	248.55	1.96	249.1	Aqr
2 Nov 2018	23h01m01.25s	-07 22' 21.0"	29.940	29.369	7.9	124.3	1.6	6.52	249.36	1.89	249.2	Aqr
3 Nov 2018	23h00m58.48s	-07 22' 36.8"	29.940	29.383	7.9	123.3	1.6	5.94	250.17	1.81	249.3	Aqr
4 Nov 2018	23h00m55.82s	-07 22' 52.0"	29.940	29.398	7.9	122.3	1.6	5.35	250.97	1.73	249.4	Aqr
5 Nov 2018	23h00m53.27s	-07 23' 06.5"	29.940	29.413	7.9	121.3	1.6	4.77	251.77	1.66	249.5	Aqr
6 Nov 2018	23h00m50.84s	-07 23' 20.2"	29.940	29.428	7.9	120.3	1.6	4.18	252.56	1.58	249.6	Aqr
7 Nov 2018	23h00m48.52s	-07 23' 33.2"	29.940	29.443	7.9	119.3	1.7	3.59	253.36	1.50	249.7	Aqr
8 Nov 2018	23h00m46.32s	-07 23' 45.5"	29.940	29.458	7.9	118.2	1.7	3.00	254.15	1.42	249.9	Aqr
9 Nov 2018	23h00m44.24s	-07 23' 57.0"	29.940	29.473	7.9	117.2	1.7	2.41	254.94	1.34	250.0	Aqr
10 Nov 2018	23h00m42.27s	-07 24' 07.7"	29.940	29.489	7.9	116.2	1.7	1.81	255.72	1.26	250.2	Aqr
11 Nov 2018	23h00m40.43s	-07 24' 17.7"	29.939	29.504	7.9	115.2	1.7	1.21	256.51	1.18	250.4	Aqr
12 Nov 2018	23h00m38.70s	-07 24' 27.0"	29.939	29.520	7.9	114.2	1.7	0.62	257.29	1.09	250.7	Aqr
13 Nov 2018	23h00m37.10s	-07 24' 35.5"	29.939	29.536	7.9	113.2	1.7	0.02	258.07	1.01	250.9	Aqr
14 Nov 2018	23h00m35.62s	-07 24' 43.2"	29.939	29.552	7.9	112.2	1.8	-0.59	258.85	0.93	251.3	Aqr
15 Nov 2018	23h00m34.26s	-07 24' 50.1"	29.939	29.568	7.9	111.1	1.8	-1.19	259.63	0.84	251.7	Aqr
16 Nov 2018	23h00m33.02s	-07 24' 56.2"	29.939	29.585	7.9	110.1	1.8	-1.79	260.40	0.76	252.2	Aqr
17 Nov 2018	23h00m31.91s	-07 25' 01.6"	29.939	29.601	7.9	109.1	1.8	-2.39	261.18	0.68	252.8	Aqr
18 Nov 2018	23h00m30.93s	-07 25' 06.2"	29.939	29.617	7.9	108.1	1.8	-3.00	261.95	0.59	253.5	Aqr
19 Nov 2018	23h00m30.07s	-07 25' 10.0"	29.939	29.634	7.9	107.1	1.8	-3.60	262.73	0.51	254.6	Aqr
20 Nov 2018	23h00m29.33s	-07 25' 13.0"	29.939	29.650	7.9	106.1	1.8	-4.21	263.50	0.42	256.0	Aqr
21 Nov 2018	23h00m28.72s	-07 25' 15.2"	29.939	29.667	7.9	105.1	1.8	-4.82	264.27	0.34	258.2	Aqr
22 Nov 2018	23h00m28.24s	-07 25' 16.6"	29.939	29.684	7.9	104.1	1.8	-5.42	265.04	0.26	261.8	Aqr
23 Nov 2018	23h00m27.88s	-07 25' 17.3"	29.939	29.701	7.9	103.1	1.8	-6.03	265.82	0.17	268.9	Aqr
24 Nov 2018	23h00m27.65s	-07 25' 17.1"	29.939	29.718	7.9	102.0	1.8	-6.64	266.59	0.10	287.5	Aqr
25 Nov 2018	23h00m27.55s	-07 25' 16.2"	29.939	29.735	7.9	101.0	1.9	-7.24	267.36	0.06	346.9	Aqr
26 Nov 2018	23h00m27.57s	-07 25' 14.4"	29.939	29.752	7.9	100.0	1.9	-7.85	268.13	0.12	34.2	Aqr
27 Nov 2018	23h00m27.72s	-07 25' 11.9"	29.939	29.769	7.9	99.0	1.9	-8.46	268.91	0.19	48.4	Aqr
28 Nov 2018	23h00m28.00s	-07 25' 08.5"	29.939	29.786	7.9	98.0	1.9	-9.06	269.68	0.28	54.2	Aqr
29 Nov 2018	23h00m28.41s	-07 25' 04.4"	29.939	29.803	7.9	97.0	1.9	-9.67	270.46	0.36	57.4	Aqr
30 Nov 2018	23h00m28.95s	-07 24' 59.4"	29.939	29.820	7.9	96.0	1.9	-10.27	271.23	0.45	59.4	Aqr
1 Dez 2018	23h00m29.62s	-07 24' 53.7"	29.939	29.838	7.9	95.0	1.9	-10.88	272.01	0.54	60.7	Aqr
2 Dez 2018	23h00m30.41s	-07 24' 47.2"	29.939	29.855	7.9	94.0	1.9	-11.48	272.79	0.62	61.7	Aqr
3 Dez 2018	23h00m31.34s	-07 24' 39.8"	29.939	29.872	7.9	93.0	1.9	-12.08	273.57	0.71	62.4	Aqr
4 Dez 2018	23h00m32.39s	-07 24' 31.7"	29.939	29.889	7.9	91.9	1.9	-12.69	274.36	0.80	63.0	Aqr
5 Dez 2018	23h00m33.57s	-07 24' 22.7"	29.939	29.907	7.9	90.9	1.9	-13.29	275.14	0.89	63.4	Aqr
6 Dez 2018	23h00m34.89s	-07 24' 13.0"	29.939	29.924	7.9	89.9	1.9	-13.89	275.93	0.97	63.8	Aqr
7 Dez 2018	23h00m36.33s	-07 24' 02.4"	29.939	29.941	7.9	88.9	1.9	-14.48	276.72	1.06	64.1	Aqr
8 Dez 2018	23h00m37.90s	-07 23' 51.1"	29.939	29.959	7.9	87.9	1.9	-15.08	277.51	1.15	64.4	Aqr
9 Dez 2018	23h00m39.60s	-07 23' 38.9"	29.939	29.976	7.9	86.9	1.9	-15.67	278.31	1.23	64.6	Aqr
10 Dez 2018	23h00m41.43s	-07 23' 26.0"	29.939	29.993	7.9	85.9	1.9	-16.27	279.11	1.32	64.8	Aqr
11 Dez 2018	23h00m43.39s	-07 23' 12.3"	29.939	30.011	7.9	84.9	1.9	-16.86	279.91	1.41	65.0	Aqr
12 Dez 2018	23h00m45.48s	-07 22' 57.8"	29.939	30.028	7.9	83.9	1.9	-17.45	280.71	1.49	65.2	Aqr
13 Dez 2018	23h00m47.69s	-07 22' 42.5"	29.939	30.045	7.9	82.9	1.9	-18.04	281.52	1.58	65.3	Aqr
14 Dez 2018	23h00m50.03s	-07 22' 26.4"	29.939	30.062	7.9	81.9	1.9	-18.62	282.33	1.66	65.4	Aqr
15 Dez 2018	23h00m52.50s	-07 22' 09.5"	29.939	30.080	7.9	80.9	1.9	-19.20	283.15	1.75	65.5	Aqr
16 Dez 2018	23h00m55.09s	-07 21' 51.9"	29.939	30.097	7.9	79.9	1.9	-19.78	283.97	1.83	65.6	Aqr
17 Dez 2018	23h00m57.80s	-07 21' 33.5"	29.939	30.114	7.9	78.8	1.8	-20.36	284.79	1.92	65.7	Aqr
18 Dez 2018	23h01m00.64s	-07 21' 14.4"	29.939	30.131	7.9	77.8	1.8	-20.94	285.62	2.00	65.8	Aqr
19 Dez 2018	23h01m03.61s	-07 20' 54.4"	29.939	30.148	7.9	76.8	1.8	-21.51	286.46	2.08	65.9	Aqr
20 Dez 2018	23h01m06.69s	-07 20' 33.8"	29.939	30.164	7.9	75.8	1.8	-22.08	287.30	2.17	66.0	Aqr
21 Dez 2018	23h01m09.90s	-07 20' 12.4"	29.939	30.181	7.9	74.8	1.8	-22.64	288.14	2.25	66.0	Aqr
22 Dez 2018	23h01m13.23s	-07 19' 50.2"	29.939	30.198	7.9	73.8	1.8	-23.21	288.99	2.33	66.1	Aqr
23 Dez 2018	23h01m16.68s	-07 19' 27.3"	29.939	30.214	7.9	72.8	1.8	-23.77	289.85	2.41	66.2	Aqr
24 Dez 2018	23h01m20.25s	-07 19' 03.7"	29.939	30.231	7.9	71.8	1.8	-24.32	290.71	2.49	66.2	Aqr
25 Dez 2018	23h01m23.93s	-07 18' 39.4"	29.939	30.247	7.9	70.8	1.8	-24.88	291.58	2.57	66.3	Aqr
26 Dez 2018	23h01m27.74s	-07 18' 14.3"	29.939	30.264	7.9	69.8	1.8	-25.42	292.45	2.65	66.3	Aqr
27 Dez 2018	23h01m31.66s	-07 17' 48.6"	29.939	30.280	7.9	68.8	1.8	-25.97	293.33	2.73	66.4	Aqr
28 Dez 2018	23h01m35.70s	-07 17' 22.1"	29.939	30.296	7.9	67.8	1.7	-26.51	294.21	2.81	66.4	Aqr
29 Dez 2018	23h01m39.85s	-07 16' 54.9"	29.939	30.312	7.9	66.8	1.7	-27.05	295.11	2.88	66.5	Aqr
30 Dez 2018	23h01m44.12s	-07 16' 27.0"	29.939	30.328	7.9	65.8	1.7	-27.58	296.01	2.96	66.5	Aqr
31 Dez 2018	23h01m48.50s	-07 15' 58.4"	29.939	30.344	7.9	64.8	1.7	-28.10	296.91	3.04	66.5	Aqr
1 Jan 2019	23h01m53.00s	-07 15' 29.2"	29.939	30.359	7.9	63.8	1.7	-28.63	297.83	3.11	66.6	Aqr