

**Пояснение для эфемерид больших планет.** В эфемеридах планет приводятся: Date (год, месяц, день), Right Asc. – прямое восхождение, Declination – склонение, Distance - геоцентрическое расстояние от Земли до планеты в астрономических единицах, dia – видимый диаметр в секундах дуги, mag - звездная величина, Elong – видимое угловое удаление (элонгация) от Солнца в градусах, I - фазовый угол (угол при центре планеты между направлениями на Солнце и Землю), Фаза - величина освещенной части диска планеты (от 0 до 100%), Limb - позиционный угол средней точки светлого лимба в градусах (отсчитывается от точки севера против часовой стрелки от 0° до 360°), De - угол наклона оси планеты к картинной плоскости перпендикулярной лучу зрения в градусах, причем знак указывает наклон северного «+» или южного «-» полюса планеты к Земле (для Сатурна это также наклон колец), Pr – позиционный угол северного полюса планеты по отношению к полюсу мира в градусах (отсчитывается при центре планеты против часовой стрелки от 0° до 360°). (*Occult v4.0*)

Sun

Equinox of J2000

year	month	day	Right Asc. h m s	Declination ° ' "	Distance AU	dia "	Po °	Bo °	Lo °	Carrington Rotation #
2025	Jan	1	18 45 33.23	-23 1 24.0	0.983353	1951.8	1.94	-3.03	76.99	2292
2025	Jan	6	19 7 33.85	-22 31 40.9	0.983332	1951.8	359.52	-3.60	11.14	2292
2025	Jan	11	19 29 22.63	-21 50 51.7	0.983431	1951.6	357.12	-4.14	305.30	2293
2025	Jan	16	19 50 56.61	-20 59 27.0	0.983683	1951.1	354.77	-4.65	239.46	2293
2025	Jan	21	20 12 13.78	-19 58 1.5	0.984087	1950.3	352.48	-5.13	173.62	2293
2025	Jan	26	20 33 12.54	-18 47 15.3	0.984617	1949.2	350.27	-5.56	107.79	2293
2025	Jan	31	20 53 51.64	-17 27 53.8	0.985242	1948.0	348.16	-5.95	41.96	2293
2025	Feb	5	21 14 10.18	-16 0 48.2	0.985948	1946.6	346.16	-6.30	336.13	2294
2025	Feb	10	21 34 8.09	-14 26 51.8	0.986756	1945.0	344.29	-6.59	270.29	2294
2025	Feb	15	21 53 46.39	-12 46 55.6	0.987691	1943.2	342.55	-6.83	204.46	2294
2025	Feb	20	22 13 6.74	-11 1 49.2	0.988745	1941.1	340.95	-7.02	138.61	2294
2025	Feb	25	22 32 10.96	- 9 12 22.1	0.989886	1938.9	339.50	-7.15	72.76	2294
2025	Mar	2	22 51 0.88	- 7 19 25.7	0.991076	1936.5	338.20	-7.23	6.90	2294
2025	Mar	7	23 9 38.23	- 5 23 53.6	0.992301	1934.2	337.05	-7.25	301.03	2295
2025	Mar	12	23 28 5.18	- 3 26 36.5	0.993583	1931.7	336.08	-7.22	235.15	2295
2025	Mar	17	23 46 24.45	- 1 28 20.2	0.994938	1929.0	335.26	-7.13	169.25	2295
2025	Mar	22	0 4 38.94	0 30 11.6	0.996354	1926.3	334.62	-6.99	103.34	2295
2025	Mar	27	0 22 51.37	2 28 15.2	0.997797	1923.5	334.15	-6.79	37.40	2295
2025	Apr	1	0 41 4.14	4 25 4.4	0.999225	1920.7	333.86	-6.55	331.45	2296
2025	Apr	6	0 59 19.21	6 19 51.4	1.000627	1918.1	333.75	-6.25	265.48	2296
2025	Apr	11	1 17 38.78	8 11 52.1	1.002028	1915.4	333.81	-5.92	199.49	2296
2025	Apr	16	1 36 5.27	10 0 26.0	1.003439	1912.7	334.06	-5.54	133.48	2296
2025	Apr	21	1 54 41.01	11 44 53.5	1.004847	1910.0	334.50	-5.12	67.44	2296
2025	Apr	26	2 13 27.95	13 24 34.0	1.006217	1907.4	335.12	-4.66	1.39	2296
2025	May	1	2 32 27.34	14 58 44.2	1.007508	1905.0	335.92	-4.17	295.32	2297
2025	May	6	2 51 39.77	16 26 41.0	1.008717	1902.7	336.90	-3.66	229.23	2297
2025	May	11	3 11 5.83	17 47 45.8	1.009870	1900.5	338.06	-3.12	163.12	2297
2025	May	16	3 30 46.02	19 1 23.3	1.010977	1898.4	339.38	-2.56	97.00	2297
2025	May	21	3 50 40.53	20 6 59.7	1.012028	1896.4	340.87	-1.98	30.86	2297
2025	May	26	4 10 48.88	21 4 2.3	1.012986	1894.7	342.51	-1.39	324.71	2298
2025	May	31	4 31 9.51	21 51 59.5	1.013817	1893.1	344.29	-0.79	258.55	2298
2025	Jun	5	4 51 40.21	22 30 25.1	1.014526	1891.8	346.19	-0.19	192.38	2298
2025	Jun	10	5 12 18.78	22 58 59.4	1.015142	1890.6	348.20	0.41	126.21	2298
2025	Jun	15	5 33 3.00	23 17 28.3	1.015676	1889.6	350.30	1.01	60.03	2298
2025	Jun	20	5 53 50.56	23 25 42.2	1.016121	1888.8	352.47	1.61	353.84	2299
2025	Jun	25	6 14 38.70	23 23 36.1	1.016440	1888.2	354.70	2.19	287.66	2299
2025	Jun	30	6 35 24.04	23 11 11.6	1.016608	1887.9	356.95	2.75	221.48	2299
2025	Jul	5	6 56 3.28	22 48 38.3	1.016641	1887.8	359.22	3.30	155.30	2299
2025	Jul	10	7 16 33.82	22 16 11.6	1.016566	1888.0	1.48	3.83	89.12	2299
2025	Jul	15	7 36 53.72	21 34 10.9	1.016403	1888.3	3.71	4.32	22.95	2299
2025	Jul	20	7 57 1.56	20 42 58.6	1.016142	1888.8	5.90	4.79	316.80	2300
2025	Jul	25	8 16 55.99	19 43 1.6	1.015752	1889.5	8.03	5.23	250.65	2300
2025	Jul	30	8 36 35.65	18 34 52.6	1.015215	1890.5	10.08	5.63	184.51	2300
2025	Aug	4	8 55 59.80	17 19 7.9	1.014555	1891.7	12.05	5.99	118.38	2300
2025	Aug	9	9 15 8.54	15 56 24.4	1.013804	1893.1	13.93	6.31	52.26	2300
2025	Aug	14	9 34 2.76	14 27 18.3	1.012984	1894.7	15.70	6.59	346.16	2301
2025	Aug	19	9 52 43.80	12 52 25.1	1.012087	1896.3	17.36	6.82	280.07	2301
2025	Aug	24	10 11 12.88	11 12 23.7	1.011083	1898.2	18.90	7.00	214.00	2301
2025	Aug	29	10 29 31.23	9 27 56.4	1.009967	1900.3	20.31	7.14	147.94	2301
2025	Sep	3	10 47 40.42	7 39 45.8	1.008764	1902.6	21.58	7.22	81.89	2301
2025	Sep	8	11 5 42.58	5 48 32.2	1.007513	1904.9	22.72	7.25	15.85	2301
2025	Sep	13	11 23 40.30	3 54 53.5	1.006239	1907.4	23.70	7.23	309.83	2302
2025	Sep	18	11 41 36.32	1 59 27.4	1.004930	1909.8	24.54	7.16	243.82	2302
2025	Sep	23	11 59 33.03	0 2 56.3	1.003560	1912.5	25.22	7.03	177.82	2302
2025	Sep	28	12 17 32.59	- 1 53 54.5	1.002133	1915.2	25.73	6.85	111.83	2302

2025 Oct 3	12 35 37.31	- 3 50 19.9	1.000678	1918.0	26.07	6.62	45.85	2302
2025 Oct 8	12 53 49.74	- 5 45 36.3	0.999235	1920.7	26.24	6.35	339.88	2303
2025 Oct 13	13 12 12.76	- 7 39 2.2	0.997829	1923.4	26.23	6.02	273.92	2303
2025 Oct 18	13 30 49.08	- 9 29 53.3	0.996444	1926.1	26.03	5.65	207.96	2303
2025 Oct 23	13 49 40.76	-11 17 20.3	0.995060	1928.8	25.63	5.23	142.02	2303
2025 Oct 28	14 8 49.43	-13 0 31.4	0.993684	1931.5	25.05	4.78	76.08	2303
2025 Nov 2	14 28 16.48	-14 38 35.6	0.992343	1934.1	24.27	4.28	10.14	2303
2025 Nov 7	14 48 3.23	-16 10 43.5	0.991082	1936.5	23.30	3.76	304.22	2304
2025 Nov 12	15 8 11.00	-17 36 7.7	0.989918	1938.8	22.12	3.20	238.30	2304
2025 Nov 17	15 28 40.41	-18 53 58.8	0.988831	1940.9	20.76	2.62	172.38	2304
2025 Nov 22	15 49 30.95	-20 3 26.2	0.987805	1943.0	19.22	2.01	106.47	2304
2025 Nov 27	16 10 41.21	-21 3 42.2	0.986842	1944.8	17.50	1.39	40.57	2304
2025 Dec 2	16 32 9.17	-21 54 4.3	0.985972	1946.6	15.62	0.76	334.67	2305
2025 Dec 7	16 53 52.50	-22 33 56.9	0.985233	1948.0	13.60	0.12	268.78	2305
2025 Dec 12	17 15 48.75	-23 2 50.3	0.984637	1949.2	11.45	-0.52	202.90	2305
2025 Dec 17	17 37 54.57	-23 20 20.0	0.984158	1950.2	9.20	-1.15	137.03	2305
2025 Dec 22	18 0 5.72	-23 26 9.6	0.983776	1950.9	6.86	-1.78	71.16	2305
2025 Dec 27	18 22 17.56	-23 20 13.0	0.983490	1951.5	4.47	-2.40	5.29	2305

Mercury  
Equinox of J2000

Date	Right Asc.	Declination	Distance	dia	mag	Elong	I	%Ill	Limb	De	Pp
year mth d	h m s	o ' "	AU	"		o	o		o	o	o
2025 Jan 1	17 14 48.72	-21 54 46.0	1.147910	5.8	-0.4	21.0w	57	77.3	97.4	-5	10
2025 Jan 4	17 31 47.59	-22 34 54.4	1.196449	5.6	-0.4	20.0w	51	81.4	94.7	-5	9
2025 Jan 7	17 49 40.62	-23 7 34.3	1.239561	5.4	-0.3	19.0w	46	84.8	91.9	-5	6
2025 Jan 10	18 8 15.62	-23 31 19.2	1.277457	5.2	-0.3	17.8w	41	87.5	88.9	-5	4
2025 Jan 13	18 27 23.71	-23 45 6.0	1.310367	5.1	-0.4	16.4w	37	89.8	85.7	-5	2
2025 Jan 16	18 46 58.15	-23 48 6.6	1.338500	5.0	-0.4	15.0w	33	91.8	82.4	-5	360
2025 Jan 19	19 6 53.63	-23 39 43.8	1.362017	4.9	-0.5	13.6w	30	93.5	78.8	-5	357
2025 Jan 22	19 27 5.80	-23 19 27.5	1.381021	4.8	-0.5	12.0w	26	94.9	75.0	-5	355
2025 Jan 25	19 47 31.02	-22 46 53.7	1.395543	4.8	-0.6	10.4w	23	96.2	70.8	-5	352
2025 Jan 28	20 8 6.27	-22 1 42.8	1.405536	4.8	-0.8	8.7w	19	97.3	65.9	-5	350
2025 Jan 31	20 28 49.01	-21 3 39.1	1.410857	4.7	-0.9	6.9w	15	98.2	59.7	-5	348
2025 Feb 3	20 49 37.11	-19 52 31.1	1.411257	4.7	-1.1	5.1w	12	99.0	50.8	-5	346
2025 Feb 6	21 10 28.77	-18 28 11.5	1.406362	4.7	-1.4	3.3w	8	99.5	34.0	-5	343
2025 Feb 9	21 31 22.30	-16 50 38.9	1.395650	4.8	-1.6	2.1e	5	99.8	352.0	-5	341
2025 Feb 12	21 52 15.69	-15 0 1.2	1.378426	4.8	-1.6	2.8e	7	99.6	295.7	-5	339
2025 Feb 15	22 13 5.93	-12 56 42.4	1.353820	4.9	-1.5	4.7e	12	98.8	271.4	-5	338
2025 Feb 18	22 33 47.80	-10 41 33.5	1.320818	5.1	-1.4	7.0e	20	97.1	260.8	-5	336
2025 Feb 21	22 54 12.14	- 8 16 9.9	1.278364	5.2	-1.3	9.5e	28	94.0	254.6	-5	335
2025 Feb 24	23 14 3.44	- 5 43 15.3	1.225597	5.5	-1.2	12.0e	39	89.1	250.5	-5	334
2025 Feb 27	23 32 57.12	- 3 7 8.1	1.162258	5.7	-1.1	14.3e	50	81.9	247.4	-6	333
2025 Mar 2	23 50 17.64	- 0 33 59.4	1.089214	6.1	-1.0	16.2e	64	72.2	245.1	-6	332
2025 Mar 5	0 5 19.49	1 48 16.2	1.008900	6.6	-0.8	17.7e	78	60.4	243.0	-6	332
2025 Mar 8	0 17 12.49	3 50 47.6	0.925311	7.2	-0.5	18.2e	93	47.2	241.1	-7	331
2025 Mar 11	0 25 11.01	5 24 58.8	0.843399	7.9	0.1	17.8e	109	34.0	238.9	-7	331
2025 Mar 14	0 28 44.77	6 23 38.9	0.768157	8.7	0.9	16.1e	124	21.9	236.2	-7	331
2025 Mar 17	0 27 49.62	6 42 8.0	0.703849	9.5	2.0	13.2e	139	12.0	232.0	-8	331
2025 Mar 20	0 22 56.63	6 19 40.5	0.653582	10.2	3.4	9.2e	154	5.0	224.2	-8	331
2025 Mar 23	0 15 15.02	5 21 0.5	0.619096	10.8	5.1	4.8e	167	1.2	201.4	-8	331
2025 Mar 26	0 6 22.25	3 56 50.8	0.600674	11.1	5.6	3.7w	171	0.7	120.1	-8	332
2025 Mar 29	23 58 0.88	2 21 51.7	0.597244	11.2	4.3	8.1w	160	2.9	83.5	-8	332
2025 Apr 1	23 51 33.30	0 50 38.6	0.606745	11.0	3.0	12.9w	149	7.2	73.7	-7	332
2025 Apr 4	23 47 48.24	- 0 25 49.2	0.626670	10.7	2.1	17.1w	138	12.7	69.3	-6	332
2025 Apr 7	23 47 2.34	- 1 21 19.1	0.654561	10.2	1.5	20.6w	129	18.7	66.7	-6	332
2025 Apr 10	23 49 10.08	- 1 53 38.0	0.688307	9.7	1.1	23.3w	120	24.7	65.1	-5	332
2025 Apr 13	23 53 54.49	- 2 3 4.2	0.726244	9.2	0.8	25.2w	113	30.5	63.9	-4	332
2025 Apr 16	0 0 54.95	- 1 51 11.3	0.767136	8.7	0.6	26.5w	106	36.0	63.0	-3	332
2025 Apr 19	0 9 51.70	- 1 20 0.4	0.810098	8.2	0.4	27.2w	100	41.1	62.3	-3	332
2025 Apr 22	0 20 27.87	- 0 31 34.6	0.854504	7.8	0.3	27.4w	95	45.9	61.8	-2	332
2025 Apr 25	0 32 30.25	0 32 10.8	0.899907	7.4	0.2	27.1w	89	50.5	61.5	-2	331
2025 Apr 28	0 45 49.25	1 49 31.7	0.945970	7.1	0.1	26.5w	84	55.0	61.3	-1	331
2025 May 1	1 0 18.72	3 18 54.3	0.992407	6.7	0.0	25.5w	79	59.4	61.3	-1	332
2025 May 4	1 15 55.73	4 58 52.4	1.038923	6.4	-0.1	24.2w	74	63.9	61.6	-1	332
2025 May 7	1 32 40.27	6 48 3.6	1.085153	6.2	-0.2	22.5w	68	68.4	62.1	0	332

2025 May 10	1 50 34.95	8 45 3.0	1.130581	5.9	-0.4	20.6w	62	73.1	62.8	0	333
2025 May 13	2 9 44.56	10 48 15.4	1.174468	5.7	-0.5	18.3w	56	78.1	63.9	0	334
2025 May 16	2 30 15.48	12 55 45.8	1.215761	5.5	-0.7	15.8w	49	83.1	65.3	1	335
2025 May 19	2 52 14.59	15 5 6.9	1.253005	5.3	-1.0	12.9w	40	88.2	67.2	1	336
2025 May 22	3 15 47.20	17 13 4.8	1.284306	5.2	-1.3	9.7w	31	93.0	69.9	1	338
2025 May 25	3 40 53.93	19 15 29.1	1.307413	5.1	-1.7	6.3w	20	96.9	73.9	1	340
2025 May 28	4 7 26.68	21 7 16.5	1.320030	5.1	-2.1	2.7w	9	99.4	83.4	2	342
2025 May 31	4 35 5.30	22 43 1.6	1.320374	5.1	-2.4	1.2e	4	99.9	227.1	2	345
2025 Jun 3	5 3 17.86	23 57 55.7	1.307797	5.1	-1.9	4.9e	16	98.0	250.6	2	348
2025 Jun 6	5 31 25.54	24 48 51.7	1.283091	5.2	-1.5	8.4e	28	94.1	256.7	2	351
2025 Jun 9	5 58 50.47	25 14 58.3	1.248236	5.4	-1.2	11.8e	39	88.8	261.2	3	355
2025 Jun 12	6 25 2.01	25 17 27.3	1.205778	5.5	-0.9	14.8e	49	82.7	265.0	3	358
2025 Jun 15	6 49 39.08	24 58 53.2	1.158213	5.8	-0.7	17.5e	58	76.3	268.5	4	1
2025 Jun 18	7 12 29.11	24 22 29.0	1.107636	6.0	-0.5	19.9e	66	70.2	271.7	4	3
2025 Jun 21	7 33 25.52	23 31 36.4	1.055643	6.3	-0.3	21.9e	73	64.3	274.6	4	6
2025 Jun 24	7 52 25.09	22 29 30.5	1.003382	6.7	-0.1	23.5e	80	58.6	277.3	5	8
2025 Jun 27	8 9 25.88	21 19 14.5	0.951662	7.0	0.0	24.7e	86	53.3	279.7	5	10
2025 Jun 30	8 24 25.74	20 3 41.0	0.901073	7.4	0.2	25.5e	92	48.1	282.0	6	12
2025 Jul 3	8 37 21.36	18 45 35.9	0.852078	7.8	0.3	25.9e	98	43.0	284.2	7	13
2025 Jul 6	8 48 7.65	17 27 42.5	0.805100	8.3	0.5	25.8e	104	38.0	286.2	7	14
2025 Jul 9	8 56 37.48	16 12 47.6	0.760590	8.8	0.7	25.3e	110	32.9	288.2	8	15
2025 Jul 12	9 2 41.87	15 3 45.7	0.719093	9.3	1.0	24.2e	117	27.7	290.4	9	16
2025 Jul 15	9 6 10.97	14 3 40.7	0.681314	9.8	1.3	22.5e	124	22.4	292.7	9	16
2025 Jul 18	9 6 56.22	13 15 43.5	0.648169	10.3	1.7	20.2e	131	17.1	295.5	10	16
2025 Jul 21	9 4 54.15	12 42 59.7	0.620828	10.8	2.3	17.2e	139	12.0	299.2	11	16
2025 Jul 24	9 0 12.09	12 28 4.2	0.600718	11.1	3.1	13.6e	148	7.4	304.9	11	16
2025 Jul 27	8 53 14.99	12 32 21.6	0.589463	11.3	4.1	9.6e	158	3.8	315.5	12	15
2025 Jul 30	8 44 50.63	12 55 19.9	0.588721	11.3	5.1	6.0e	166	1.5	340.9	12	14
2025 Aug 2	8 36 9.07	13 34 3.7	0.599934	11.1	5.2	5.2w	167	1.2	33.9	12	13
2025 Aug 5	8 28 33.22	14 23 27.0	0.624052	10.7	4.2	8.0w	160	3.1	69.5	11	12
2025 Aug 8	8 23 23.54	15 17 7.1	0.661348	10.1	3.0	11.6w	149	7.4	83.7	11	12
2025 Aug 11	8 21 43.68	16 8 26.8	0.711345	9.4	1.9	14.7w	136	13.9	91.0	10	12
2025 Aug 14	8 24 13.04	16 51 14.3	0.772826	8.6	1.0	17.0w	124	22.4	95.7	9	12
2025 Aug 17	8 31 6.42	17 19 54.8	0.843830	7.9	0.3	18.3w	110	32.6	99.5	8	13
2025 Aug 20	8 42 16.98	17 29 31.6	0.921597	7.2	-0.2	18.6w	97	44.2	102.9	8	14
2025 Aug 23	8 57 19.18	17 16 0.2	1.002544	6.7	-0.6	17.9w	83	56.4	106.3	7	15
2025 Aug 26	9 15 31.32	16 36 44.6	1.082462	6.2	-0.9	16.5w	68	68.4	109.7	6	17
2025 Aug 29	9 35 59.92	15 31 20.9	1.157081	5.8	-1.1	14.4w	55	79.0	113.3	6	19
2025 Sep 1	9 57 47.98	14 1 56.4	1.222901	5.5	-1.2	11.9w	41	87.5	117.2	5	21
2025 Sep 4	10 20 4.82	12 12 39.1	1.277833	5.2	-1.4	9.1w	30	93.5	121.9	5	23
2025 Sep 7	10 42 13.00	10 8 31.6	1.321299	5.1	-1.6	6.3w	19	97.2	128.4	5	24
2025 Sep 10	11 3 49.83	7 54 27.5	1.353841	4.9	-1.7	3.6w	10	99.2	141.6	5	26
2025 Sep 13	11 24 44.73	5 34 35.3	1.376581	4.9	-1.8	1.7e	5	99.8	189.2	4	27
2025 Sep 16	11 44 55.20	3 12 8.0	1.390793	4.8	-1.6	2.7e	7	99.6	260.6	4	28
2025 Sep 19	12 4 23.40	0 49 30.0	1.397663	4.8	-1.3	4.9e	12	98.9	279.3	4	28
2025 Sep 22	12 23 13.73	- 1 31 33.0	1.398184	4.8	-1.0	7.1e	17	97.8	286.0	4	28
2025 Sep 25	12 41 31.44	- 3 49 42.9	1.393140	4.8	-0.8	9.2e	22	96.4	289.4	4	29
2025 Sep 28	12 59 21.73	- 6 4 0.6	1.383122	4.8	-0.6	11.2e	26	94.9	291.4	4	29
2025 Oct 1	13 16 49.39	- 8 13 39.5	1.368548	4.9	-0.5	13.1e	30	93.3	292.5	3	28
2025 Oct 4	13 33 58.47	-10 18 0.5	1.349702	4.9	-0.4	14.9e	34	91.5	293.1	3	28
2025 Oct 7	13 50 52.09	-12 16 28.4	1.326754	5.0	-0.3	16.5e	38	89.6	293.4	3	27
2025 Oct 10	14 7 32.31	-14 8 29.6	1.299783	5.1	-0.2	18.0e	41	87.5	293.4	3	27
2025 Oct 13	14 23 59.82	-15 53 29.4	1.268792	5.3	-0.2	19.4e	45	85.2	293.1	3	26
2025 Oct 16	14 40 13.51	-17 30 49.9	1.233727	5.4	-0.2	20.6e	49	82.5	292.6	2	25
2025 Oct 19	14 56 9.90	-18 59 48.0	1.194498	5.6	-0.2	21.7e	54	79.5	292.0	2	24
2025 Oct 22	15 11 42.26	-20 19 33.7	1.151017	5.8	-0.2	22.7e	59	75.9	291.2	2	22
2025 Oct 25	15 26 39.50	-21 29 8.2	1.103230	6.1	-0.2	23.4e	64	71.7	290.4	2	21
2025 Oct 28	15 40 44.36	-22 27 19.8	1.051187	6.4	-0.2	23.8e	70	66.7	289.5	2	20
2025 Oct 31	15 53 31.06	-23 12 39.7	0.995145	6.7	-0.2	23.9e	78	60.6	288.6	1	19
2025 Nov 3	16 4 22.22	-23 43 12.7	0.935743	7.1	-0.2	23.4e	86	53.2	287.8	1	18
2025 Nov 6	16 12 25.75	-23 56 24.5	0.874285	7.6	0.0	22.2e	97	44.3	287.1	1	17
2025 Nov 9	16 16 34.03	-23 48 43.1	0.813165	8.2	0.3	20.1e	109	33.8	286.7	0	17
2025 Nov 12	16 15 31.85	-23 15 33.1	0.756418	8.8	0.9	16.7e	124	22.1	286.6	0	17
2025 Nov 15	16 8 25.63	-22 12 21.7	0.710155	9.4	2.1	11.9e	142	10.8	286.5	-1	17
2025 Nov 18	15 55 42.35	-20 39 0.3	0.682130	9.8	4.2	5.6e	162	2.4	284.7	-1	19
2025 Nov 21	15 40 4.79	-18 47 16.1	0.679422	9.8	5.9	1.6w	175	0.2	130.6	-2	20
2025 Nov 24	15 25 55.32	-17 2 29.9	0.704648	9.5	3.0	8.3w	152	5.7	115.6	-2	21

2025 Nov 27	15 16 56.07	-15 50 23.2	0.753978	8.9	1.2	13.8w	131	17.2	114.3	-3	22
2025 Nov 30	15 14 29.57	-15 21 52.6	0.819273	8.2	0.2	17.5w	112	31.1	113.4	-3	22
2025 Dec 3	15 18 2.00	-15 32 43.2	0.891994	7.5	-0.3	19.6w	96	44.5	112.3	-3	22
2025 Dec 6	15 26 14.31	-16 11 57.9	0.965621	6.9	-0.5	20.6w	83	56.2	110.9	-3	21
2025 Dec 9	15 37 49.21	-17 8 32.3	1.036080	6.4	-0.5	20.7w	72	65.6	109.3	-3	20
2025 Dec 12	15 51 47.07	-18 13 41.7	1.101210	6.1	-0.5	20.2w	62	73.1	107.4	-3	19
2025 Dec 15	16 7 26.29	-19 21 11.2	1.160082	5.8	-0.5	19.4w	55	78.9	105.2	-3	18
2025 Dec 18	16 24 19.03	-20 26 42.6	1.212463	5.5	-0.5	18.3w	48	83.4	102.8	-3	16
2025 Dec 21	16 42 6.89	-21 27 18.8	1.258478	5.3	-0.5	17.1w	42	87.0	100.1	-4	14
2025 Dec 24	17 0 37.56	-22 20 56.5	1.298408	5.1	-0.5	15.8w	37	89.8	97.2	-4	12
2025 Dec 27	17 19 42.61	-23 6 6.5	1.332579	5.0	-0.5	14.4w	33	92.1	94.0	-4	10
2025 Dec 30	17 39 15.98	-23 41 42.7	1.361304	4.9	-0.5	12.9w	29	93.9	90.6	-4	8

Venus  
Equinox of J2000

Date	Right Asc.	Declination	Distance	dia	mag	Elong	I	%Ill	Limb	De	Pp
year mth d	h m s	o ' "	AU	"		o	o		o	o	o
2025 Jan 1	22 0 14.76	-13 42 15.7	0.750895	22.4	-4.5	46.9e	84	55.5	251.1	1	341
2025 Jan 6	22 20 2.05	-11 28 53.0	0.713955	23.6	-4.5	47.1e	86	53.1	249.8	0	340
2025 Jan 11	22 38 52.48	- 9 10 54.2	0.676885	24.8	-4.6	47.2e	89	50.6	248.6	0	339
2025 Jan 16	22 56 43.22	- 6 50 10.2	0.639804	26.3	-4.6	47.0e	92	47.9	247.6	-1	338
2025 Jan 21	23 13 30.80	- 4 28 28.2	0.602842	27.9	-4.7	46.7e	96	45.0	246.6	-1	338
2025 Jan 26	23 29 10.11	- 2 7 36.6	0.566129	29.7	-4.7	46.2e	99	42.0	245.7	-2	338
2025 Jan 31	23 43 33.28	0 10 28.6	0.529807	31.7	-4.8	45.3e	103	38.7	244.8	-3	337
2025 Feb 5	23 56 28.57	2 23 35.8	0.494058	34.0	-4.8	44.1e	107	35.1	243.9	-4	337
2025 Feb 10	0 7 39.68	4 29 10.7	0.459158	36.6	-4.8	42.5e	112	31.3	242.9	-4	337
2025 Feb 15	0 16 46.46	6 24 16.6	0.425498	39.5	-4.8	40.4e	117	27.2	241.6	-5	337
2025 Feb 20	0 23 25.41	8 5 26.9	0.393560	42.7	-4.8	37.6e	123	22.9	239.9	-6	337
2025 Feb 25	0 27 10.60	9 28 28.9	0.363928	46.2	-4.8	34.2e	129	18.3	237.7	-7	337
2025 Mar 2	0 27 36.99	10 28 13.4	0.337320	49.9	-4.7	29.9e	137	13.7	234.5	-8	337
2025 Mar 7	0 24 27.36	10 58 41.7	0.314627	53.5	-4.6	24.8e	145	9.2	229.6	-9	337
2025 Mar 12	0 17 46.11	10 54 19.3	0.296923	56.6	-4.4	18.9e	153	5.3	221.4	-9	337
2025 Mar 17	0 8 15.02	10 12 35.2	0.285311	59.0	-4.2	12.9e	162	2.4	205.3	-10	337
2025 Mar 22	23 57 17.20	8 56 57.6	0.280666	59.9	-4.2	8.6w	168	1.1	167.7	-10	337
2025 Mar 27	23 46 40.93	7 18 1.0	0.283394	59.4	-4.2	10.2w	166	1.5	117.7	-9	337
2025 Apr 1	23 38 8.14	5 30 52.2	0.293317	57.3	-4.3	15.7w	158	3.7	93.3	-8	337
2025 Apr 6	23 32 48.16	3 50 18.8	0.309792	54.3	-4.5	21.7w	149	7.1	82.5	-7	337
2025 Apr 11	23 31 11.58	2 27 19.9	0.331905	50.7	-4.6	27.1w	141	11.2	76.7	-6	337
2025 Apr 16	23 33 16.83	1 27 54.4	0.358628	46.9	-4.7	31.7w	133	15.8	73.2	-5	337
2025 Apr 21	23 38 42.33	0 53 45.3	0.388976	43.2	-4.7	35.4w	126	20.3	70.8	-4	337
2025 Apr 26	23 46 58.00	0 43 50.6	0.422097	39.8	-4.8	38.4w	120	24.7	69.1	-3	337
2025 May 1	23 57 32.91	0 55 43.2	0.457313	36.8	-4.7	40.7w	115	28.9	67.8	-2	337
2025 May 6	0 10 0.24	1 26 32.3	0.494133	34.0	-4.7	42.5w	110	32.8	66.9	-1	337
2025 May 11	0 23 59.00	2 13 34.4	0.532175	31.6	-4.7	43.8w	106	36.5	66.3	-1	337
2025 May 16	0 39 12.93	3 14 13.3	0.571113	29.5	-4.6	44.8w	102	39.9	66.0	0	337
2025 May 21	0 55 29.48	4 25 59.1	0.610659	27.5	-4.6	45.4w	98	43.1	65.9	0	338
2025 May 26	1 12 38.96	5 46 26.6	0.650570	25.9	-4.5	45.7w	94	46.1	66.1	1	338
2025 May 31	1 30 34.02	7 13 17.7	0.690664	24.4	-4.5	45.9w	91	49.0	66.4	1	339
2025 Jun 5	1 49 9.95	8 44 27.9	0.730829	23.0	-4.4	45.8w	88	51.6	67.0	1	339
2025 Jun 10	2 8 24.33	10 18 3.7	0.770959	21.8	-4.4	45.6w	85	54.2	67.8	1	340
2025 Jun 15	2 28 15.97	11 52 16.0	0.810942	20.7	-4.3	45.3w	82	56.6	68.9	1	341
2025 Jun 20	2 48 44.27	13 25 16.9	0.850653	19.8	-4.3	44.8w	80	58.9	70.1	1	343
2025 Jun 25	3 9 48.56	14 55 19.1	0.889975	18.9	-4.2	44.3w	77	61.1	71.6	2	344
2025 Jun 30	3 31 27.99	16 20 38.3	0.928832	18.1	-4.2	43.6w	75	63.3	73.3	2	346
2025 Jul 5	3 53 41.94	17 39 37.5	0.967185	17.4	-4.1	42.9w	72	65.3	75.2	1	347
2025 Jul 10	4 16 29.81	18 50 44.9	1.004988	16.7	-4.1	42.1w	70	67.3	77.3	1	349
2025 Jul 15	4 39 50.45	19 52 32.1	1.042178	16.1	-4.1	41.3w	67	69.2	79.6	1	351
2025 Jul 20	5 3 41.74	20 43 35.3	1.078671	15.6	-4.1	40.4w	65	71.0	82.0	1	354
2025 Jul 25	5 28 0.13	21 22 37.9	1.114385	15.1	-4.0	39.5w	63	72.8	84.6	1	356
2025 Jul 30	5 52 40.99	21 48 35.4	1.149280	14.6	-4.0	38.5w	61	74.5	87.2	1	358
2025 Aug 4	6 17 39.24	22 0 37.1	1.183337	14.2	-4.0	37.5w	59	76.1	90.0	1	1
2025 Aug 9	6 42 49.54	21 58 6.2	1.216537	13.8	-4.0	36.4w	56	77.7	92.7	1	3
2025 Aug 14	7 8 6.33	21 40 39.9	1.248839	13.5	-3.9	35.3w	54	79.2	95.5	1	5
2025 Aug 19	7 33 23.87	21 8 11.0	1.280177	13.1	-3.9	34.2w	52	80.7	98.2	0	8
2025 Aug 24	7 58 36.33	20 20 49.8	1.310492	12.8	-3.9	33.1w	50	82.1	100.9	0	10
2025 Aug 29	8 23 38.54	19 19 4.0	1.339761	12.6	-3.9	32.0w	48	83.5	103.4	0	12

2025 Sep 3	8 48 26.55	18 3 35.1	1.367983	12.3	-3.9	30.8w	46	84.8	105.8	0	14
2025 Sep 8	9 12 57.80	16 35 15.1	1.395157	12.1	-3.9	29.6w	44	86.1	108.1	0	16
2025 Sep 13	9 37 11.04	14 55 4.6	1.421262	11.8	-3.9	28.4w	42	87.3	110.1	0	18
2025 Sep 18	10 1 6.04	13 4 12.7	1.446248	11.6	-3.9	27.2w	40	88.4	111.9	0	19
2025 Sep 23	10 24 43.36	11 3 57.1	1.470076	11.4	-3.9	26.0w	38	89.5	113.5	0	20
2025 Sep 28	10 48 4.56	8 55 40.8	1.492740	11.3	-3.9	24.8w	36	90.6	114.9	0	21
2025 Oct 3	11 11 12.26	6 40 48.8	1.514256	11.1	-3.9	23.5w	34	91.5	115.9	0	22
2025 Oct 8	11 34 9.94	4 20 46.5	1.534644	11.0	-3.9	22.3w	32	92.5	116.8	0	23
2025 Oct 13	11 57 1.84	1 56 59.7	1.553900	10.8	-3.9	21.1w	30	93.3	117.3	0	23
2025 Oct 18	12 19 52.41	- 0 29 2.6	1.571992	10.7	-3.9	19.8w	28	94.1	117.6	0	23
2025 Oct 23	12 42 46.11	- 2 55 47.4	1.588899	10.6	-3.9	18.6w	26	94.9	117.6	0	23
2025 Oct 28	13 5 47.52	- 5 21 40.3	1.604633	10.5	-3.9	17.3w	24	95.6	117.3	0	22
2025 Nov 2	13 29 1.26	- 7 45 6.1	1.619223	10.4	-3.9	16.1w	22	96.2	116.7	0	21
2025 Nov 7	13 52 31.99	-10 4 29.6	1.632706	10.3	-3.9	14.8w	21	96.8	115.8	0	21
2025 Nov 12	14 16 24.20	-12 18 14.6	1.645094	10.2	-3.9	13.6w	19	97.3	114.5	0	19
2025 Nov 17	14 40 41.61	-14 24 41.3	1.656367	10.2	-3.9	12.3w	17	97.8	113.0	0	18
2025 Nov 22	15 5 26.94	-16 22 7.8	1.666518	10.1	-3.9	11.1w	15	98.2	111.1	0	16
2025 Nov 27	15 30 41.75	-18 8 53.3	1.675563	10.0	-3.9	9.9w	14	98.6	108.8	0	14
2025 Dec 2	15 56 26.39	-19 43 20.6	1.683539	10.0	-3.9	8.6w	12	98.9	106.2	0	12
2025 Dec 7	16 22 39.94	-21 3 58.5	1.690492	9.9	-3.9	7.4w	10	99.2	103.1	1	10
2025 Dec 12	16 49 20.10	-22 9 23.8	1.696435	9.9	-3.9	6.2w	8	99.5	99.6	1	8
2025 Dec 17	17 16 22.70	-22 58 23.4	1.701351	9.9	-3.9	5.0w	7	99.7	95.3	1	5
2025 Dec 22	17 43 41.79	-23 29 58.8	1.705233	9.9	-4.0	3.8w	5	99.8	89.8	1	3
2025 Dec 27	18 11 10.15	-23 43 30.7	1.708089	9.8	-4.0	2.6w	3	99.9	81.9	1	360

Mars  
Equinox of J2000

Date	Right Asc.	Declination	Distance	dia	mag	Elong	I	%Ill	Limb	De	Pp
year mth d	h m s	o ' "	AU	"		o	o		o	o	o
2025 Jan 1	8 18 59.78	23 37 28.0	0.656719	14.3	-1.2	158.6w	13	98.7	93.1	13	352
2025 Jan 6	8 11 41.86	24 10 16.6	0.646991	14.5	-1.3	165.2w	9	99.4	86.9	12	351
2025 Jan 11	8 3 35.66	24 41 51.2	0.642546	14.6	-1.3	171.6w	5	99.8	71.8	11	350
2025 Jan 16	7 55 4.20	25 10 23.9	0.643587	14.5	-1.4	175.7w	3	99.9	13.0	10	349
2025 Jan 21	7 46 32.41	25 34 30.6	0.650190	14.4	-1.3	171.8e	5	99.8	312.2	9	347
2025 Jan 26	7 38 25.79	25 53 18.0	0.662301	14.1	-1.2	165.5e	9	99.4	296.5	9	346
2025 Jan 31	7 31 7.92	26 6 25.6	0.679713	13.8	-1.1	159.0e	12	98.8	290.1	8	345
2025 Feb 5	7 24 58.02	26 14 3.2	0.702054	13.3	-1.0	152.6e	16	98.1	286.4	8	344
2025 Feb 10	7 20 8.55	26 16 42.9	0.728826	12.8	-0.8	146.6e	19	97.2	284.1	7	344
2025 Feb 15	7 16 45.14	26 15 8.5	0.759508	12.3	-0.7	140.8e	22	96.3	282.4	7	343
2025 Feb 20	7 14 48.74	26 10 2.4	0.793618	11.8	-0.5	135.4e	25	95.4	281.2	7	343
2025 Feb 25	7 14 17.34	26 1 59.4	0.830697	11.3	-0.4	130.3e	27	94.5	280.4	7	343
2025 Mar 2	7 15 6.97	25 51 24.7	0.870296	10.8	-0.3	125.5e	29	93.7	279.9	7	343
2025 Mar 7	7 17 11.99	25 38 34.6	0.911961	10.3	-0.1	121.0e	31	92.9	279.6	8	343
2025 Mar 12	7 20 25.18	25 23 39.3	0.955269	9.8	0.0	116.8e	32	92.3	279.5	8	344
2025 Mar 17	7 24 38.96	25 6 43.8	0.999884	9.4	0.1	112.8e	34	91.7	279.6	9	344
2025 Mar 22	7 29 46.46	24 47 47.9	1.045537	9.0	0.2	109.0e	35	91.2	279.8	9	345
2025 Mar 27	7 35 41.69	24 26 47.5	1.091987	8.6	0.3	105.4e	35	90.8	280.1	10	346
2025 Apr 1	7 42 19.31	24 3 35.7	1.138994	8.2	0.4	102.1e	36	90.5	280.5	11	347
2025 Apr 6	7 49 34.09	23 38 5.9	1.186306	7.9	0.5	98.8e	36	90.2	280.9	11	348
2025 Apr 11	7 57 20.81	23 10 13.2	1.233718	7.6	0.6	95.8e	37	90.1	281.5	12	349
2025 Apr 16	8 5 34.88	22 39 53.5	1.281087	7.3	0.7	92.8e	37	89.9	282.1	13	350
2025 Apr 21	8 14 12.59	22 7 2.4	1.328298	7.0	0.8	90.0e	37	89.9	282.7	14	351
2025 Apr 26	8 23 10.95	21 31 35.1	1.375241	6.8	0.9	87.3e	37	89.9	283.4	15	353
2025 May 1	8 32 27.35	20 53 27.6	1.421779	6.6	0.9	84.7e	37	89.9	284.0	16	354
2025 May 6	8 41 59.08	20 12 38.4	1.467766	6.4	1.0	82.2e	37	90.0	284.7	17	355
2025 May 11	8 51 43.55	19 29 9.0	1.513106	6.2	1.1	79.8e	37	90.1	285.4	18	357
2025 May 16	9 1 38.68	18 43 1.1	1.557741	6.0	1.1	77.4e	36	90.2	286.1	18	359
2025 May 21	9 11 42.94	17 54 16.2	1.601627	5.8	1.2	75.1e	36	90.4	286.7	19	0
2025 May 26	9 21 55.24	17 2 55.3	1.644705	5.7	1.2	72.9e	36	90.6	287.4	20	2
2025 May 31	9 32 14.56	16 9 0.9	1.686879	5.5	1.3	70.7e	35	90.8	288.0	21	3
2025 Jun 5	9 42 39.71	15 12 38.3	1.728064	5.4	1.3	68.6e	35	91.0	288.6	22	5
2025 Jun 10	9 53 9.67	14 13 54.3	1.768218	5.3	1.4	66.5e	34	91.3	289.2	22	7
2025 Jun 15	10 3 43.77	13 12 55.1	1.807328	5.2	1.4	64.5e	34	91.6	289.8	23	9
2025 Jun 20	10 14 21.73	12 9 46.0	1.845381	5.1	1.4	62.5e	33	91.8	290.3	24	10
2025 Jun 25	10 25 3.50	11 4 32.1	1.882339	5.0	1.5	60.6e	33	92.1	290.7	24	12
2025 Jun 30	10 35 48.93	9 57 20.1	1.918129	4.9	1.5	58.7e	32	92.4	291.2	25	14

2025 Jul 5	10 46 37.76	8 48 19.3	1.952705	4.8	1.5	56.8e	31	92.7	291.6	25	16
2025 Jul 10	10 57 29.86	7 37 39.3	1.986061	4.7	1.5	55.0e	31	93.0	291.9	25	17
2025 Jul 15	11 8 25.39	6 25 28.6	2.018207	4.6	1.5	53.2e	30	93.3	292.2	26	19
2025 Jul 20	11 19 24.79	5 11 54.8	2.049149	4.6	1.6	51.4e	29	93.6	292.4	26	21
2025 Jul 25	11 30 28.55	3 57 5.6	2.078852	4.5	1.6	49.7e	29	93.9	292.6	26	23
2025 Jul 30	11 41 37.05	2 41 11.0	2.107268	4.4	1.6	48.0e	28	94.2	292.8	26	24
2025 Aug 4	11 52 50.56	1 24 22.8	2.134379	4.4	1.6	46.3e	27	94.5	292.9	26	26
2025 Aug 9	12 4 9.48	0 6 52.7	2.160201	4.3	1.6	44.6e	26	94.8	292.9	26	27
2025 Aug 14	12 15 34.44	- 1 11 8.7	2.184764	4.3	1.6	42.9e	26	95.1	292.9	26	29
2025 Aug 19	12 27 6.27	- 2 29 31.7	2.208079	4.2	1.6	41.3e	25	95.4	292.8	25	30
2025 Aug 24	12 38 45.78	- 3 48 5.0	2.230116	4.2	1.6	39.6e	24	95.7	292.7	25	32
2025 Aug 29	12 50 33.59	- 5 6 35.0	2.250849	4.2	1.6	38.0e	23	96.0	292.5	25	33
2025 Sep 3	13 2 30.27	- 6 24 47.1	2.270283	4.1	1.6	36.4e	22	96.2	292.2	24	34
2025 Sep 8	13 14 36.48	- 7 42 26.7	2.288453	4.1	1.6	34.9e	22	96.5	291.9	23	35
2025 Sep 13	13 26 53.07	- 8 59 20.0	2.305403	4.1	1.6	33.3e	21	96.8	291.5	23	36
2025 Sep 18	13 39 21.04	-10 15 13.2	2.321145	4.0	1.6	31.8e	20	97.0	291.1	22	37
2025 Sep 23	13 52 1.21	-11 29 50.3	2.335657	4.0	1.6	30.2e	19	97.3	290.5	21	38
2025 Sep 28	14 4 54.22	-12 42 53.3	2.348935	4.0	1.6	28.7e	18	97.5	290.0	20	38
2025 Oct 3	14 18 0.60	-13 54 3.6	2.361005	4.0	1.6	27.2e	17	97.7	289.3	19	38
2025 Oct 8	14 31 20.92	-15 3 2.4	2.371918	3.9	1.5	25.7e	16	98.0	288.6	18	39
2025 Oct 13	14 44 55.92	-16 9 31.6	2.381728	3.9	1.5	24.2e	16	98.2	287.9	17	39
2025 Oct 18	14 58 46.27	-17 13 12.5	2.390446	3.9	1.5	22.7e	15	98.4	287.0	15	39
2025 Oct 23	15 12 52.38	-18 13 44.3	2.398066	3.9	1.5	21.3e	14	98.6	286.2	14	38
2025 Oct 28	15 27 14.34	-19 10 45.2	2.404603	3.9	1.5	19.8e	13	98.7	285.2	13	38
2025 Nov 2	15 41 52.07	-20 3 53.3	2.410099	3.9	1.5	18.4e	12	98.9	284.2	11	38
2025 Nov 7	15 56 45.41	-20 52 47.9	2.414622	3.9	1.4	16.9e	11	99.1	283.2	10	37
2025 Nov 12	16 11 54.28	-21 37 8.8	2.418231	3.9	1.4	15.5e	10	99.2	282.2	8	36
2025 Nov 17	16 27 18.34	-22 16 35.8	2.420938	3.9	1.4	14.1e	9	99.3	281.2	7	35
2025 Nov 22	16 42 56.81	-22 50 48.3	2.422751	3.9	1.4	12.7e	8	99.5	280.1	5	34
2025 Nov 27	16 58 48.56	-23 19 27.4	2.423701	3.9	1.4	11.4e	8	99.6	279.2	4	33
2025 Dec 2	17 14 52.22	-23 42 15.7	2.423845	3.9	1.3	10.0e	7	99.7	278.3	2	31
2025 Dec 7	17 31 6.38	-23 58 58.5	2.423262	3.9	1.3	8.7e	6	99.7	277.5	0	30
2025 Dec 12	17 47 29.68	-24 9 23.0	2.422008	3.9	1.3	7.3e	5	99.8	277.1	-1	28
2025 Dec 17	18 4 0.47	-24 13 18.3	2.420096	3.9	1.3	6.0e	4	99.9	277.1	-3	26
2025 Dec 22	18 20 36.80	-24 10 36.3	2.417544	3.9	1.2	4.8e	3	99.9	277.9	-5	24
2025 Dec 27	18 37 16.51	-24 1 12.5	2.414389	3.9	1.2	3.5e	2	100.0	280.5	-6	22

Jupiter  
Equinox of J2000

Date	Right Asc.	Declination	Distance	dia	mag	Elong	I	%Ill	Limb	De	Pp
year mth d	h m s	o ' "	AU	"		o	o		o	o	o
2025 Jan 1	4 46 0.94	21 44 26.9	4.190753	47.0	-2.6	152.4e	5	99.8	261.6	3	353
2025 Jan 6	4 43 51.84	21 41 35.9	4.232898	46.5	-2.6	146.8e	6	99.7	261.7	3	353
2025 Jan 11	4 41 59.88	21 39 12.4	4.281426	46.0	-2.5	141.3e	7	99.6	261.7	3	353
2025 Jan 16	4 40 26.67	21 37 20.9	4.335801	45.4	-2.5	135.8e	8	99.5	261.7	3	352
2025 Jan 21	4 39 13.40	21 36 5.4	4.395498	44.8	-2.5	130.4e	8	99.5	261.7	3	352
2025 Jan 26	4 38 21.02	21 35 29.2	4.459966	44.2	-2.4	125.1e	9	99.4	261.7	3	352
2025 Jan 31	4 37 50.22	21 35 34.4	4.528614	43.5	-2.4	119.9e	10	99.3	261.7	3	352
2025 Feb 5	4 37 41.31	21 36 22.1	4.600800	42.8	-2.3	114.8e	10	99.2	261.7	3	352
2025 Feb 10	4 37 54.19	21 37 51.6	4.675870	42.1	-2.3	109.8e	10	99.2	261.8	3	352
2025 Feb 15	4 38 28.45	21 40 1.5	4.753222	41.4	-2.3	104.9e	11	99.1	261.9	3	352
2025 Feb 20	4 39 23.55	21 42 49.8	4.832300	40.8	-2.2	100.1e	11	99.1	262.0	3	352
2025 Feb 25	4 40 38.94	21 46 14.0	4.912557	40.1	-2.2	95.3e	11	99.1	262.2	3	352
2025 Mar 2	4 42 13.96	21 50 11.0	4.993434	39.4	-2.2	90.7e	11	99.0	262.4	3	353
2025 Mar 7	4 44 7.77	21 54 36.7	5.074365	38.8	-2.1	86.1e	11	99.1	262.6	3	353
2025 Mar 12	4 46 19.35	21 59 26.7	5.154833	38.2	-2.1	81.6e	11	99.1	262.8	3	353
2025 Mar 17	4 48 47.64	22 4 36.3	5.234396	37.6	-2.1	77.2e	11	99.1	263.1	3	353
2025 Mar 22	4 51 31.71	22 10 1.3	5.312649	37.1	-2.0	72.9e	11	99.1	263.4	3	354
2025 Mar 27	4 54 30.64	22 15 37.2	5.389194	36.5	-2.0	68.7e	10	99.2	263.7	3	354
2025 Apr 1	4 57 43.54	22 21 19.5	5.463626	36.0	-2.0	64.5e	10	99.2	264.0	3	354
2025 Apr 6	5 1 9.38	22 27 3.3	5.535551	35.6	-1.9	60.3e	10	99.3	264.4	2	355
2025 Apr 11	5 4 47.10	22 32 44.3	5.604651	35.1	-1.9	56.3e	9	99.3	264.7	2	355
2025 Apr 16	5 8 35.73	22 38 18.2	5.670665	34.7	-1.9	52.2e	9	99.4	265.1	2	355
2025 Apr 21	5 12 34.43	22 43 41.3	5.733347	34.3	-1.9	48.3e	8	99.5	265.5	2	356
2025 Apr 26	5 16 42.40	22 48 50.1	5.792445	34.0	-1.8	44.4e	8	99.5	266.0	2	356
2025 May 1	5 20 58.82	22 53 40.8	5.847697	33.7	-1.8	40.5e	7	99.6	266.4	2	357

2025 May 6	5 25 22.77	22 58 10.2	5.898879	33.4	-1.8	36.7e	7	99.7	266.9	2	357
2025 May 11	5 29 53.36	23 2 15.4	5.945836	33.1	-1.8	32.9e	6	99.7	267.3	2	358
2025 May 16	5 34 29.82	23 5 54.0	5.988445	32.9	-1.8	29.1e	6	99.8	267.8	2	358
2025 May 21	5 39 11.49	23 9 3.8	6.026579	32.7	-1.8	25.4e	5	99.8	268.4	2	359
2025 May 26	5 43 57.68	23 11 42.9	6.060098	32.5	-1.8	21.7e	4	99.9	268.9	2	359
2025 May 31	5 48 47.67	23 13 49.4	6.088857	32.3	-1.8	18.0e	3	99.9	269.4	2	360
2025 Jun 5	5 53 40.63	23 15 22.0	6.112772	32.2	-1.8	14.3e	3	99.9	270.0	2	0
2025 Jun 10	5 58 35.84	23 16 19.7	6.131809	32.1	-1.7	10.6e	2	100.0	270.7	2	1
2025 Jun 15	6 3 32.68	23 16 42.1	6.145943	32.0	-1.7	7.0e	1	100.0	271.6	2	1
2025 Jun 20	6 8 30.56	23 16 28.7	6.155136	32.0	-1.7	3.4e	1	100.0	273.3	2	2
2025 Jun 25	6 13 28.86	23 15 39.4	6.159332	32.0	-1.7	0.3w	0	100.0	63.6	2	2
2025 Jun 30	6 18 26.85	23 14 14.2	6.158496	32.0	-1.7	3.9w	1	100.0	89.9	2	3
2025 Jul 5	6 23 23.78	23 12 13.8	6.152658	32.0	-1.7	7.5w	1	100.0	91.4	2	3
2025 Jul 10	6 28 19.02	23 9 39.4	6.141878	32.1	-1.7	11.2w	2	100.0	92.2	2	4
2025 Jul 15	6 33 11.97	23 6 32.0	6.126213	32.1	-1.7	14.8w	3	99.9	92.9	2	4
2025 Jul 20	6 38 2.05	23 2 52.9	6.105699	32.3	-1.7	18.5w	4	99.9	93.5	2	5
2025 Jul 25	6 42 48.60	22 58 43.8	6.080367	32.4	-1.7	22.1w	4	99.9	94.0	2	5
2025 Jul 30	6 47 30.82	22 54 7.0	6.050298	32.6	-1.8	25.8w	5	99.8	94.5	2	6
2025 Aug 4	6 52 7.99	22 49 4.9	6.015628	32.7	-1.8	29.5w	6	99.8	95.0	2	6
2025 Aug 9	6 56 39.44	22 43 40.3	5.976508	33.0	-1.8	33.3w	6	99.7	95.5	2	7
2025 Aug 14	7 1 4.55	22 37 56.0	5.933081	33.2	-1.8	37.1w	7	99.6	95.9	2	7
2025 Aug 19	7 5 22.62	22 31 55.1	5.885470	33.5	-1.8	40.9w	7	99.6	96.4	2	8
2025 Aug 24	7 9 32.85	22 25 41.1	5.833821	33.8	-1.8	44.7w	8	99.5	96.8	2	8
2025 Aug 29	7 13 34.35	22 19 18.0	5.778350	34.1	-1.8	48.6w	8	99.5	97.2	2	9
2025 Sep 3	7 17 26.32	22 12 50.1	5.719312	34.4	-1.9	52.5w	9	99.4	97.6	2	9
2025 Sep 8	7 21 8.00	22 6 21.6	5.656971	34.8	-1.9	56.5w	9	99.3	97.9	2	9
2025 Sep 13	7 24 38.65	21 59 56.7	5.591580	35.2	-1.9	60.6w	10	99.3	98.2	2	10
2025 Sep 18	7 27 57.39	21 53 39.9	5.523388	35.7	-1.9	64.7w	10	99.2	98.6	2	10
2025 Sep 23	7 31 3.22	21 47 36.3	5.452705	36.1	-1.9	68.8w	10	99.2	98.9	2	10
2025 Sep 28	7 33 55.18	21 41 51.1	5.379906	36.6	-2.0	73.1w	11	99.1	99.1	2	11
2025 Oct 3	7 36 32.39	21 36 29.4	5.305398	37.1	-2.0	77.3w	11	99.1	99.4	2	11
2025 Oct 8	7 38 54.02	21 31 35.7	5.229592	37.7	-2.0	81.7w	11	99.1	99.6	2	11
2025 Oct 13	7 40 59.23	21 27 14.8	5.152884	38.2	-2.1	86.2w	11	99.1	99.8	2	11
2025 Oct 18	7 42 47.06	21 23 31.3	5.075702	38.8	-2.1	90.7w	11	99.1	99.9	1	12
2025 Oct 23	7 44 16.54	21 20 30.0	4.998554	39.4	-2.1	95.3w	11	99.1	100.1	1	12
2025 Oct 28	7 45 26.87	21 18 14.9	4.921992	40.0	-2.2	100.0w	11	99.1	100.2	1	12
2025 Nov 2	7 46 17.42	21 16 49.3	4.846587	40.6	-2.2	104.8w	11	99.1	100.2	1	12
2025 Nov 7	7 46 47.71	21 16 15.4	4.772893	41.3	-2.2	109.7w	10	99.2	100.3	1	12
2025 Nov 12	7 46 57.31	21 16 34.8	4.701455	41.9	-2.3	114.7w	10	99.2	100.3	1	12
2025 Nov 17	7 46 45.81	21 17 48.8	4.632868	42.5	-2.3	119.8w	10	99.3	100.2	1	12
2025 Nov 22	7 46 13.15	21 19 57.2	4.567777	43.1	-2.3	125.0w	9	99.4	100.1	1	12
2025 Nov 27	7 45 19.59	21 22 58.6	4.506828	43.7	-2.4	130.2w	8	99.5	100.0	1	12
2025 Dec 2	7 44 5.83	21 26 49.5	4.450635	44.2	-2.4	135.6w	8	99.6	99.9	1	12
2025 Dec 7	7 42 32.83	21 31 25.5	4.399749	44.8	-2.4	141.0w	7	99.6	99.7	1	12
2025 Dec 12	7 40 41.78	21 36 41.4	4.354694	45.2	-2.4	146.5w	6	99.7	99.5	1	11
2025 Dec 17	7 38 34.21	21 42 31.0	4.316006	45.6	-2.5	152.1w	5	99.8	99.2	1	11
2025 Dec 22	7 36 12.15	21 48 47.1	4.284181	46.0	-2.5	157.8w	4	99.9	98.8	1	11
2025 Dec 27	7 33 38.14	21 55 21.2	4.259635	46.2	-2.5	163.5w	3	99.9	98.3	1	11

Saturn  
Equinox of J2000

Date	Right Asc.	Declination	Distance	dia	mag	Elong	I	%Ill	Limb	De	Pp
year mth d	h m s	o ' "	AU	"		o	o		o	o	o
2025 Jan 1	23 4 46.44	- 8 3 1.0	10.025338	16.6	1.1	63.7e	5	99.8	248.2	4	5
2025 Jan 6	23 6 13.57	- 7 53 16.1	10.098060	16.5	1.1	59.0e	5	99.8	248.4	4	5
2025 Jan 11	23 7 47.71	- 7 42 49.4	10.167248	16.4	1.1	54.4e	5	99.8	248.6	4	5
2025 Jan 16	23 9 28.31	- 7 31 44.3	10.232502	16.3	1.1	49.7e	4	99.8	248.8	4	5
2025 Jan 21	23 11 14.89	- 7 20 3.8	10.293454	16.2	1.1	45.1e	4	99.9	249.0	3	5
2025 Jan 26	23 13 6.95	- 7 7 50.9	10.349732	16.1	1.1	40.5e	4	99.9	249.3	3	5
2025 Jan 31	23 15 3.97	- 6 55 8.8	10.400975	16.0	1.1	36.0e	3	99.9	249.7	3	5
2025 Feb 5	23 17 5.36	- 6 42 1.1	10.446856	16.0	1.1	31.5e	3	99.9	250.1	3	5
2025 Feb 10	23 19 10.53	- 6 28 31.8	10.487134	15.9	1.2	27.0e	3	99.9	250.7	2	5
2025 Feb 15	23 21 18.94	- 6 14 44.3	10.521631	15.8	1.2	22.5e	2	100.0	251.5	2	5
2025 Feb 20	23 23 30.07	- 6 0 41.7	10.550182	15.8	1.2	18.1e	2	100.0	252.7	2	5
2025 Feb 25	23 25 43.43	- 5 46 27.3	10.572623	15.8	1.1	13.7e	1	100.0	254.7	2	5
2025 Mar 2	23 27 58.47	- 5 32 4.6	10.588809	15.7	1.1	9.4e	1	100.0	258.5	1	5

2025 Mar 7	23 30 14.62	- 5 17 37.4	10.598656	15.7	1.1	5.1e	1	100.0	268.6	1	5
2025 Mar 12	23 32 31.32	- 5 3 9.6	10.602165	15.7	1.1	2.0e	0	100.0	325.5	1	5
2025 Mar 17	23 34 48.07	- 4 48 44.2	10.599367	15.7	1.2	4.4w	0	100.0	41.0	0	5
2025 Mar 22	23 37 4.42	- 4 34 24.4	10.590293	15.7	1.2	8.6w	1	100.0	53.8	0	5
2025 Mar 27	23 39 19.86	- 4 20 13.5	10.574982	15.8	1.2	12.8w	1	100.0	58.1	0	5
2025 Apr 1	23 41 33.88	- 4 6 14.9	10.553498	15.8	1.2	17.1w	2	100.0	60.3	0	5
2025 Apr 6	23 43 45.94	- 3 52 32.6	10.525986	15.8	1.2	21.4w	2	100.0	61.7	-1	5
2025 Apr 11	23 45 55.53	- 3 39 9.6	10.492651	15.9	1.2	25.8w	3	99.9	62.5	-1	5
2025 Apr 16	23 48 2.22	- 3 26 9.0	10.453700	15.9	1.2	30.1w	3	99.9	63.2	-1	4
2025 Apr 21	23 50 5.56	- 3 13 33.7	10.409335	16.0	1.2	34.4w	3	99.9	63.7	-2	4
2025 Apr 26	23 52 5.08	- 3 1 26.8	10.359770	16.1	1.2	38.7w	4	99.9	64.1	-2	4
2025 May 1	23 54 0.28	- 2 49 51.8	10.305265	16.2	1.2	43.1w	4	99.9	64.4	-2	4
2025 May 6	23 55 50.64	- 2 38 52.0	10.246158	16.3	1.2	47.4w	4	99.8	64.7	-2	4
2025 May 11	23 57 35.75	- 2 28 30.1	10.182813	16.4	1.2	51.8w	5	99.8	64.9	-2	4
2025 May 16	23 59 15.20	- 2 18 48.5	10.115580	16.5	1.2	56.2w	5	99.8	65.2	-3	4
2025 May 21	0 0 48.57	- 2 9 50.0	10.044807	16.6	1.1	60.6w	5	99.8	65.4	-3	4
2025 May 26	0 2 15.42	- 2 1 37.3	9.970862	16.7	1.1	65.0w	5	99.8	65.6	-3	4
2025 May 31	0 3 35.29	- 1 54 13.4	9.894181	16.8	1.1	69.4w	6	99.8	65.8	-3	4
2025 Jun 5	0 4 47.77	- 1 47 40.5	9.815254	17.0	1.1	73.9w	6	99.7	65.9	-3	4
2025 Jun 10	0 5 52.54	- 1 42 0.6	9.734562	17.1	1.1	78.4w	6	99.7	66.1	-3	4
2025 Jun 15	0 6 49.29	- 1 37 15.2	9.652573	17.3	1.1	82.9w	6	99.7	66.3	-3	4
2025 Jun 20	0 7 37.69	- 1 33 26.1	9.569752	17.4	1.0	87.5w	6	99.7	66.5	-3	4
2025 Jun 25	0 8 17.44	- 1 30 35.1	9.486604	17.6	1.0	92.1w	6	99.7	66.6	-4	4
2025 Jun 30	0 8 48.24	- 1 28 43.6	9.403698	17.7	1.0	96.7w	6	99.7	66.8	-4	4
2025 Jul 5	0 9 9.93	- 1 27 52.1	9.321614	17.9	1.0	101.4w	6	99.7	67.0	-4	4
2025 Jul 10	0 9 22.43	- 1 28 0.4	9.240905	18.0	1.0	106.1w	6	99.7	67.2	-4	4
2025 Jul 15	0 9 25.69	- 1 29 8.4	9.162097	18.2	0.9	110.8w	6	99.8	67.4	-4	4
2025 Jul 20	0 9 19.68	- 1 31 15.6	9.085721	18.3	0.9	115.6w	5	99.8	67.7	-4	4
2025 Jul 25	0 9 4.43	- 1 34 21.4	9.012353	18.5	0.9	120.5w	5	99.8	67.9	-4	4
2025 Jul 30	0 8 40.09	- 1 38 23.8	8.942589	18.6	0.8	125.4w	5	99.8	68.2	-3	4
2025 Aug 4	0 8 6.98	- 1 43 20.2	8.876990	18.8	0.8	130.3w	5	99.8	68.6	-3	4
2025 Aug 9	0 7 25.48	- 1 49 7.1	8.816058	18.9	0.8	135.3w	4	99.9	69.0	-3	4
2025 Aug 14	0 6 36.05	- 1 55 41.0	8.760259	19.0	0.8	140.3w	4	99.9	69.5	-3	4
2025 Aug 19	0 5 39.20	- 2 2 57.9	8.710055	19.1	0.7	145.4w	3	99.9	70.1	-3	4
2025 Aug 24	0 4 35.55	- 2 10 53.0	8.665921	19.2	0.7	150.5w	3	99.9	70.9	-3	4
2025 Aug 29	0 3 25.90	- 2 19 20.5	8.628285	19.3	0.7	155.6w	3	100.0	72.0	-3	4
2025 Sep 3	0 2 11.16	- 2 28 13.6	8.597488	19.4	0.7	160.7w	2	100.0	73.7	-2	4
2025 Sep 8	0 0 52.28	- 2 37 25.7	8.573788	19.4	0.6	165.9w	1	100.0	76.5	-2	4
2025 Sep 13	23 59 30.25	- 2 46 49.9	8.557388	19.5	0.6	171.0w	1	100.0	82.5	-2	4
2025 Sep 18	23 58 6.09	- 2 56 19.5	8.548477	19.5	0.6	175.8w	0	100.0	102.9	-2	4
2025 Sep 23	23 56 40.91	- 3 5 46.8	8.547199	19.5	0.6	176.9e	0	100.0	193.2	-2	4
2025 Sep 28	23 55 15.91	- 3 15 3.8	8.553593	19.5	0.6	172.4e	1	100.0	227.3	-2	4
2025 Oct 3	23 53 52.29	- 3 24 2.7	8.567593	19.5	0.7	167.3e	1	100.0	235.3	-1	4
2025 Oct 8	23 52 31.15	- 3 32 36.6	8.589048	19.4	0.7	162.1e	2	100.0	238.8	-1	4
2025 Oct 13	23 51 13.55	- 3 40 39.2	8.617767	19.3	0.8	156.8e	2	100.0	240.7	-1	4
2025 Oct 18	23 50 0.51	- 3 48 4.1	8.653542	19.3	0.8	151.6e	3	99.9	241.9	-1	4
2025 Oct 23	23 48 53.04	- 3 54 45.2	8.696081	19.2	0.8	146.3e	3	99.9	242.8	-1	4
2025 Oct 28	23 47 52.09	- 4 0 37.0	8.744993	19.1	0.9	141.1e	4	99.9	243.5	-1	4
2025 Nov 2	23 46 58.49	- 4 5 34.9	8.799810	18.9	0.9	135.9e	4	99.9	244.0	-1	4
2025 Nov 7	23 46 12.88	- 4 9 35.6	8.860024	18.8	0.9	130.7e	5	99.8	244.5	-1	5
2025 Nov 12	23 45 35.80	- 4 12 36.4	8.925138	18.7	1.0	125.5e	5	99.8	244.9	0	5
2025 Nov 17	23 45 7.75	- 4 14 34.9	8.994634	18.5	1.0	120.3e	5	99.8	245.2	0	5
2025 Nov 22	23 44 49.16	- 4 15 29.0	9.067929	18.4	1.0	115.2e	5	99.8	245.5	0	5
2025 Nov 27	23 44 40.30	- 4 15 17.8	9.144386	18.2	1.0	110.1e	6	99.8	245.7	0	5
2025 Dec 2	23 44 41.33	- 4 14 1.1	9.223348	18.1	1.1	105.1e	6	99.7	246.0	0	5
2025 Dec 7	23 44 52.23	- 4 11 39.8	9.304182	17.9	1.1	100.1e	6	99.7	246.2	0	5
2025 Dec 12	23 45 12.96	- 4 8 14.8	9.386301	17.8	1.1	95.1e	6	99.7	246.4	-1	5
2025 Dec 17	23 45 43.43	- 4 3 47.1	9.469100	17.6	1.1	90.2e	6	99.7	246.6	-1	5
2025 Dec 22	23 46 23.51	- 3 58 18.3	9.551945	17.4	1.1	85.3e	6	99.7	246.8	-1	5
2025 Dec 27	23 47 12.92	- 3 51 50.4	9.634196	17.3	1.2	80.4e	6	99.7	247.0	-1	4

Uranus  
Equinox of J2000

Date	Right Asc.	Declination	Distance	dia	mag	Elong	I	%Ill	Limb	De	Pp
year mth d	h m s	o ' "	AU	"		o	o	o	o	o	o
2025 Jan 1	3 23 50.03	18 20 46.7	18.871734	3.6	5.7	132.8e	2	100.0	255.3	64	273



2025 Jan 6	3 23 22.34	18 19 10.7	18.936953	3.6	5.7 127.6e	2 100.0 255.3	64 273
2025 Jan 11	3 22 59.35	18 17 51.9	19.006855	3.6	5.7 122.4e	2 100.0 255.3	64 273
2025 Jan 16	3 22 41.25	18 16 51.2	19.080838	3.6	5.7 117.2e	3 99.9 255.3	64 273
2025 Jan 21	3 22 28.25	18 16 9.4	19.158321	3.6	5.7 112.1e	3 99.9 255.3	64 273
2025 Jan 26	3 22 20.48	18 15 47.1	19.238698	3.6	5.7 107.0e	3 99.9 255.3	64 273
2025 Jan 31	3 22 18.08	18 15 44.9	19.321317	3.5	5.7 101.9e	3 99.9 255.3	64 273
2025 Feb 5	3 22 21.11	18 16 2.8	19.405482	3.5	5.7 96.8e	3 99.9 255.3	64 273
2025 Feb 10	3 22 29.55	18 16 40.9	19.490499	3.5	5.7 91.8e	3 99.9 255.4	64 273
2025 Feb 15	3 22 43.32	18 17 38.6	19.575729	3.5	5.7 86.8e	3 99.9 255.4	64 273
2025 Feb 20	3 23 2.35	18 18 55.6	19.660564	3.5	5.7 81.8e	3 99.9 255.5	64 273
2025 Feb 25	3 23 26.54	18 20 31.4	19.744388	3.5	5.8 76.9e	3 99.9 255.5	64 273
2025 Mar 2	3 23 55.76	18 22 25.5	19.826573	3.5	5.8 72.0e	3 99.9 255.6	64 273
2025 Mar 7	3 24 29.82	18 24 36.9	19.906487	3.4	5.8 67.1e	3 99.9 255.6	65 273
2025 Mar 12	3 25 8.47	18 27 4.4	19.983565	3.4	5.8 62.3e	3 99.9 255.7	65 274
2025 Mar 17	3 25 51.48	18 29 47.0	20.057312	3.4	5.8 57.5e	2 100.0 255.8	65 274
2025 Mar 22	3 26 38.59	18 32 43.5	20.127263	3.4	5.8 52.7e	2 100.0 255.9	65 274
2025 Mar 27	3 27 29.55	18 35 52.9	20.192959	3.4	5.8 48.0e	2 100.0 256.0	65 274
2025 Apr 1	3 28 24.09	18 39 14.0	20.253942	3.4	5.8 43.2e	2 100.0 256.1	66 274
2025 Apr 6	3 29 21.87	18 42 45.2	20.309794	3.4	5.8 38.5e	2 100.0 256.2	66 275
2025 Apr 11	3 30 22.56	18 46 25.1	20.360195	3.4	5.8 33.9e	2 100.0 256.3	66 275
2025 Apr 16	3 31 25.83	18 50 12.5	20.404876	3.4	5.8 29.2e	1 100.0 256.5	66 275
2025 Apr 21	3 32 31.37	18 54 6.0	20.443592	3.4	5.8 24.6e	1 100.0 256.7	66 276
2025 Apr 26	3 33 38.87	18 58 4.5	20.476102	3.3	5.8 20.0e	1 100.0 256.9	67 276
2025 May 1	3 34 47.97	19 2 6.4	20.502181	3.3	5.8 15.4e	1 100.0 257.2	67 276
2025 May 6	3 35 58.31	19 6 10.5	20.521684	3.3	5.8 10.9e	1 100.0 257.6	67 276
2025 May 11	3 37 9.52	19 10 15.3	20.534548	3.3	5.8 6.3e	0 100.0 258.5	68 277
2025 May 16	3 38 21.27	19 14 19.8	20.540742	3.3	5.8 1.8e	0 100.0 263.4	68 277
2025 May 21	3 39 33.23	19 18 22.8	20.540243	3.3	5.8 2.7w	0 100.0 72.3	68 278
2025 May 26	3 40 45.06	19 22 23.1	20.533035	3.3	5.8 7.3w	0 100.0 75.2	68 278
2025 May 31	3 41 56.42	19 26 19.7	20.519142	3.3	5.8 11.8w	1 100.0 76.0	69 278
2025 Jun 5	3 43 6.91	19 30 11.2	20.498681	3.3	5.8 16.3w	1 100.0 76.4	69 279
2025 Jun 10	3 44 16.21	19 33 56.7	20.471820	3.3	5.8 20.8w	1 100.0 76.6	69 279
2025 Jun 15	3 45 24.00	19 37 35.3	20.438741	3.4	5.8 25.3w	1 100.0 76.8	69 279
2025 Jun 20	3 46 29.97	19 41 6.3	20.399625	3.4	5.8 29.8w	1 100.0 77.0	70 280
2025 Jun 25	3 47 33.79	19 44 28.6	20.354669	3.4	5.8 34.3w	2 100.0 77.1	70 280
2025 Jun 30	3 48 35.12	19 47 41.2	20.304139	3.4	5.8 38.8w	2 100.0 77.3	70 280
2025 Jul 5	3 49 33.62	19 50 43.5	20.248377	3.4	5.8 43.4w	2 100.0 77.4	70 281
2025 Jul 10	3 50 29.01	19 53 34.8	20.187748	3.4	5.8 47.9w	2 100.0 77.5	71 281
2025 Jul 15	3 51 21.04	19 56 14.4	20.122616	3.4	5.8 52.5w	2 100.0 77.6	71 281
2025 Jul 20	3 52 9.42	19 58 41.8	20.053343	3.4	5.8 57.0w	3 100.0 77.7	71 282
2025 Jul 25	3 52 53.87	20 0 56.3	19.980327	3.4	5.8 61.6w	3 99.9 77.8	71 282
2025 Jul 30	3 53 34.13	20 2 57.2	19.904044	3.4	5.8 66.3w	3 99.9 77.9	71 282
2025 Aug 4	3 54 9.95	20 4 44.1	19.825015	3.5	5.8 70.9w	3 99.9 77.9	71 282
2025 Aug 9	3 54 41.16	20 6 16.8	19.743759	3.5	5.7 75.6w	3 99.9 78.0	71 283
2025 Aug 14	3 55 7.59	20 7 34.9	19.660781	3.5	5.7 80.2w	3 99.9 78.1	72 283
2025 Aug 19	3 55 29.07	20 8 38.0	19.576588	3.5	5.7 85.0w	3 99.9 78.1	72 283
2025 Aug 24	3 55 45.44	20 9 25.7	19.491744	3.5	5.7 89.7w	3 99.9 78.2	72 283
2025 Aug 29	3 55 56.59	20 9 58.0	19.406868	3.5	5.7 94.5w	3 99.9 78.2	72 283
2025 Sep 3	3 56 2.47	20 10 14.7	19.322582	3.5	5.7 99.3w	3 99.9 78.2	72 283
2025 Sep 8	3 56 3.07	20 10 16.0	19.239480	3.6	5.7 104.2w	3 99.9 78.2	72 283
2025 Sep 13	3 55 58.42	20 10 1.8	19.158129	3.6	5.7 109.0w	3 99.9 78.2	72 283
2025 Sep 18	3 55 48.54	20 9 32.3	19.079107	3.6	5.7 113.9w	3 99.9 78.3	72 283
2025 Sep 23	3 55 33.51	20 8 47.6	19.003038	3.6	5.7 118.9w	3 99.9 78.3	72 283
2025 Sep 28	3 55 13.48	20 7 48.1	18.930549	3.6	5.7 123.9w	2 100.0 78.3	72 283
2025 Oct 3	3 54 48.66	20 6 34.5	18.862225	3.6	5.6 128.9w	2 100.0 78.2	71 283
2025 Oct 8	3 54 19.32	20 5 7.3	18.798592	3.6	5.6 133.9w	2 100.0 78.2	71 282
2025 Oct 13	3 53 45.74	20 3 27.3	18.740136	3.7	5.6 139.0w	2 100.0 78.2	71 282
2025 Oct 18	3 53 8.22	20 1 35.2	18.687350	3.7	5.6 144.1w	2 100.0 78.2	71 282
2025 Oct 23	3 52 27.13	19 59 32.0	18.640726	3.7	5.6 149.2w	1 100.0 78.2	71 282
2025 Oct 28	3 51 42.93	19 57 18.9	18.600698	3.7	5.6 154.4w	1 100.0 78.2	71 282
2025 Nov 2	3 50 56.10	19 54 57.4	18.567617	3.7	5.6 159.6w	1 100.0 78.3	71 281
2025 Nov 7	3 50 7.15	19 52 28.8	18.541745	3.7	5.6 164.8w	1 100.0 78.4	70 281
2025 Nov 12	3 49 16.58	19 49 54.5	18.523302	3.7	5.6 170.0w	1 100.0 78.8	70 281
2025 Nov 17	3 48 24.92	19 47 16.2	18.512496	3.7	5.6 175.3w	0 100.0 80.0	70 280
2025 Nov 22	3 47 32.75	19 44 35.5	18.509477	3.7	5.6 179.4e	0 100.0 235.8	70 280
2025 Nov 27	3 46 40.67	19 41 54.4	18.514293	3.7	5.6 174.2e	0 100.0 255.3	70 280
2025 Dec 2	3 45 49.27	19 39 14.8	18.526890	3.7	5.6 168.9e	1 100.0 256.3	69 280

2025 Dec 7	3 44 59.13	19 36 38.5	18.547132	3.7	5.6 163.7e	1 100.0 256.5	69 279
2025 Dec 12	3 44 10.76	19 34 7.2	18.574854	3.7	5.6 158.4e	1 100.0 256.7	69 279
2025 Dec 17	3 43 24.69	19 31 42.7	18.609865	3.7	5.6 153.1e	1 100.0 256.7	69 279
2025 Dec 22	3 42 41.45	19 29 27.0	18.651880	3.7	5.6 147.9e	2 100.0 256.7	69 279
2025 Dec 27	3 42 1.55	19 27 21.7	18.700524	3.7	5.6 142.6e	2 100.0 256.7	69 278

Neptune  
Equinox of J2000

Date	Right	Asc.	Declination	Distance	dia	mag	Elong	I	%Ill	Limb	De	Pp
year mth d	h m s	o ' "	o ' "	AU	"		o	o		o	o	o
2025 Jan 1	23 50 51.01	- 2 23 32.0	30.108782	2.4	7.9	76.5e	2	100.0	246.9	-21	318	
2025 Jan 6	23 51 7.47	- 2 21 33.6	30.192178	2.4	7.9	71.5e	2	100.0	247.0	-21	318	
2025 Jan 11	23 51 26.87	- 2 19 16.6	30.273160	2.4	7.9	66.5e	2	100.0	247.1	-21	318	
2025 Jan 16	23 51 49.08	- 2 16 41.9	30.351155	2.4	7.9	61.5e	2	100.0	247.3	-21	318	
2025 Jan 21	23 52 13.96	- 2 13 50.5	30.425630	2.4	7.9	56.5e	2	100.0	247.4	-21	318	
2025 Jan 26	23 52 41.39	- 2 10 43.2	30.496048	2.4	7.9	51.5e	1	100.0	247.6	-21	318	
2025 Jan 31	23 53 11.19	- 2 7 21.3	30.561875	2.4	7.9	46.6e	1	100.0	247.8	-21	318	
2025 Feb 5	23 53 43.17	- 2 3 46.0	30.622612	2.4	7.9	41.7e	1	100.0	248.0	-21	318	
2025 Feb 10	23 54 17.13	- 1 59 58.8	30.677842	2.4	7.9	36.8e	1	100.0	248.3	-21	318	
2025 Feb 15	23 54 52.84	- 1 56 1.2	30.727231	2.4	7.9	31.9e	1	100.0	248.6	-20	318	
2025 Feb 20	23 55 30.10	- 1 51 54.4	30.770469	2.4	7.9	27.0e	1	100.0	249.0	-20	318	
2025 Feb 25	23 56 8.71	- 1 47 40.0	30.807260	2.4	8.0	22.2e	1	100.0	249.7	-20	318	
2025 Mar 2	23 56 48.44	- 1 43 19.3	30.837333	2.4	8.0	17.3e	1	100.0	250.6	-20	318	
2025 Mar 7	23 57 29.03	- 1 38 54.0	30.860486	2.4	8.0	12.5e	0	100.0	252.3	-20	318	
2025 Mar 12	23 58 10.24	- 1 34 25.9	30.876619	2.4	8.0	7.7e	0	100.0	255.9	-20	317	
2025 Mar 17	23 58 51.85	- 1 29 56.3	30.885684	2.4	8.0	3.1e	0	100.0	270.5	-20	317	
2025 Mar 22	23 59 33.62	- 1 25 26.8	30.887649	2.4	8.0	2.3w	0	100.0	33.4	-20	317	
2025 Mar 27	0 0 15.34	- 1 20 58.7	30.882503	2.4	8.0	6.8w	0	100.0	55.9	-20	317	
2025 Apr 1	0 0 56.76	- 1 16 33.7	30.870272	2.4	8.0	11.5w	0	100.0	60.3	-20	317	
2025 Apr 6	0 1 37.63	- 1 12 13.4	30.851076	2.4	8.0	16.3w	1	100.0	62.2	-20	317	
2025 Apr 11	0 2 17.74	- 1 7 59.2	30.825114	2.4	8.0	21.0w	1	100.0	63.2	-20	317	
2025 Apr 16	0 2 56.86	- 1 3 52.4	30.792602	2.4	7.9	25.7w	1	100.0	63.9	-20	317	
2025 Apr 21	0 3 34.81	- 0 59 54.3	30.753767	2.4	7.9	30.4w	1	100.0	64.4	-20	317	
2025 Apr 26	0 4 11.38	- 0 56 6.2	30.708853	2.4	7.9	35.1w	1	100.0	64.7	-20	317	
2025 May 1	0 4 46.35	- 0 52 29.5	30.658160	2.4	7.9	39.8w	1	100.0	65.0	-20	317	
2025 May 6	0 5 19.53	- 0 49 5.3	30.602077	2.4	7.9	44.5w	1	100.0	65.3	-20	317	
2025 May 11	0 5 50.75	- 0 45 54.8	30.541030	2.4	7.9	49.2w	1	100.0	65.5	-19	317	
2025 May 16	0 6 19.85	- 0 42 58.9	30.475436	2.4	7.9	53.9w	2	100.0	65.6	-19	317	
2025 May 21	0 6 46.68	- 0 40 18.4	30.405715	2.4	7.9	58.6w	2	100.0	65.8	-19	317	
2025 May 26	0 7 11.10	- 0 37 54.3	30.332310	2.4	7.9	63.3w	2	100.0	65.9	-19	317	
2025 May 31	0 7 32.96	- 0 35 47.4	30.255727	2.4	7.9	68.0w	2	100.0	66.0	-19	317	
2025 Jun 5	0 7 52.14	- 0 33 58.6	30.176534	2.4	7.9	72.7w	2	100.0	66.2	-19	317	
2025 Jun 10	0 8 8.56	- 0 32 28.1	30.095285	2.4	7.9	77.4w	2	100.0	66.3	-19	316	
2025 Jun 15	0 8 22.14	- 0 31 16.4	30.012519	2.4	7.9	82.1w	2	100.0	66.4	-19	316	
2025 Jun 20	0 8 32.82	- 0 30 23.7	29.928763	2.4	7.9	86.8w	2	100.0	66.5	-19	316	
2025 Jun 25	0 8 40.54	- 0 29 50.6	29.844581	2.5	7.9	91.6w	2	100.0	66.6	-19	316	
2025 Jun 30	0 8 45.25	- 0 29 37.0	29.760588	2.5	7.9	96.3w	2	100.0	66.7	-19	316	
2025 Jul 5	0 8 46.95	- 0 29 43.0	29.677409	2.5	7.9	101.1w	2	100.0	66.8	-19	316	
2025 Jul 10	0 8 45.67	- 0 30 8.1	29.595625	2.5	7.9	105.8w	2	100.0	67.0	-19	316	
2025 Jul 15	0 8 41.45	- 0 30 52.1	29.515784	2.5	7.9	110.6w	2	100.0	67.1	-19	316	
2025 Jul 20	0 8 34.33	- 0 31 54.6	29.438429	2.5	7.9	115.4w	2	100.0	67.2	-19	316	
2025 Jul 25	0 8 24.36	- 0 33 15.1	29.364132	2.5	7.8	120.3w	2	100.0	67.4	-19	316	
2025 Jul 30	0 8 11.66	- 0 34 52.9	29.293484	2.5	7.8	125.1w	2	100.0	67.5	-19	316	
2025 Aug 4	0 7 56.34	- 0 36 47.0	29.227026	2.5	7.8	130.0w	1	100.0	67.7	-19	317	
2025 Aug 9	0 7 38.56	- 0 38 56.2	29.165238	2.5	7.8	134.8w	1	100.0	67.9	-19	317	
2025 Aug 14	0 7 18.49	- 0 41 19.4	29.108555	2.5	7.8	139.7w	1	100.0	68.2	-19	317	
2025 Aug 19	0 6 56.30	- 0 43 55.6	29.057407	2.5	7.8	144.6w	1	100.0	68.5	-19	317	
2025 Aug 24	0 6 32.17	- 0 46 43.3	29.012236	2.5	7.8	149.5w	1	100.0	68.9	-19	317	
2025 Aug 29	0 6 6.34	- 0 49 40.8	28.973440	2.5	7.8	154.5w	1	100.0	69.4	-19	317	
2025 Sep 3	0 5 39.06	- 0 52 46.6	28.941334	2.5	7.8	159.4w	1	100.0	70.2	-19	317	
2025 Sep 8	0 5 10.60	- 0 55 58.8	28.916158	2.5	7.8	164.4w	1	100.0	71.5	-19	317	
2025 Sep 13	0 4 41.22	- 0 59 15.6	28.898103	2.5	7.8	169.3w	0	100.0	73.9	-20	317	
2025 Sep 18	0 4 11.17	- 1 2 35.5	28.887358	2.5	7.8	174.3w	0	100.0	80.4	-20	317	
2025 Sep 23	0 3 40.76	- 1 5 56.4	28.884078	2.5	7.8	178.5w	0	100.0	135.5	-20	317	
2025 Sep 28	0 3 10.28	- 1 9 16.2	28.888332	2.5	7.8	175.3e	0	100.0	229.6	-20	317	
2025 Oct 3	0 2 40.06	- 1 12 33.0	28.900093	2.5	7.8	170.3e	0	100.0	238.5	-20	317	

2025 Oct 8	0	2	10.37	-	1	15	44.9	28.919258	2.5	7.8	165.3e	0	100.0	241.3	-20	317
2025 Oct 13	0	1	41.51	-	1	18	50.1	28.945698	2.5	7.8	160.3e	1	100.0	242.7	-20	317
2025 Oct 18	0	1	13.75	-	1	21	46.9	28.979268	2.5	7.8	155.2e	1	100.0	243.6	-20	317
2025 Oct 23	0	0	47.38	-	1	24	33.3	29.019756	2.5	7.8	150.1e	1	100.0	244.2	-20	317
2025 Oct 28	0	0	22.68	-	1	27	7.7	29.066850	2.5	7.8	145.0e	1	100.0	244.6	-20	317
2025 Nov 2	23	59	59.92	-	1	29	28.3	29.120161	2.5	7.8	139.9e	1	100.0	244.9	-20	317
2025 Nov 7	23	59	39.30	-	1	31	33.9	29.179254	2.5	7.8	134.8e	1	100.0	245.2	-20	317
2025 Nov 12	23	59	21.04	-	1	33	23.3	29.243695	2.5	7.8	129.7e	1	100.0	245.4	-20	317
2025 Nov 17	23	59	5.32	-	1	34	55.2	29.313027	2.5	7.8	124.6e	2	100.0	245.6	-20	317
2025 Nov 22	23	58	52.34	-	1	36	8.7	29.386716	2.5	7.8	119.5e	2	100.0	245.8	-20	317
2025 Nov 27	23	58	42.25	-	1	37	2.7	29.464160	2.5	7.9	114.4e	2	100.0	245.9	-20	317
2025 Dec 2	23	58	35.16	-	1	37	36.7	29.544718	2.5	7.9	109.3e	2	100.0	246.1	-20	317
2025 Dec 7	23	58	31.14	-	1	37	50.3	29.627755	2.5	7.9	104.2e	2	100.0	246.2	-20	317
2025 Dec 12	23	58	30.26	-	1	37	43.3	29.712668	2.5	7.9	99.2e	2	100.0	246.3	-20	317
2025 Dec 17	23	58	32.57	-	1	37	15.5	29.798823	2.5	7.9	94.1e	2	100.0	246.5	-20	317
2025 Dec 22	23	58	38.08	-	1	36	26.7	29.885539	2.4	7.9	89.0e	2	100.0	246.6	-20	317
2025 Dec 27	23	58	46.79	-	1	35	17.3	29.972113	2.4	7.9	84.0e	2	100.0	246.7	-20	317