

Geocentric Ephemeris for Near Giant Planet: 2018

00:00 UTC (Coordinated Universal Time)

Date (0 UT)	Calculated R.A. h m s	Calculated Declination ° ' "	Distance to Sun a.u.	Distance to Earth a.u.
Jan 15	8 21 42.21	-02 58 08.6	5.43219	4.52848
Jan 16	8 21 07.60	-02 55 57.6	5.43504	4.52768
Jan 17	8 20 34.68	-02 53 41.1	5.43819	4.52752
Jan 18	8 19 58.78	-02 51 20.7	5.44072	4.52702
Jan 19	8 19 23.35	-02 48 50.6	5.44356	4.52713
Jan 20	8 18 48.16	-02 46 16.0	5.44639	4.52754
Jan 21	8 18 13.55	-02 43 38.0	5.44921	4.52827
Jan 22	8 17 39.12	-02 40 55.4	5.45204	4.52929
Jan 23	8 17 03.75	-02 38 04.4	5.45485	4.53063
Jan 24	8 16 28.91	-02 35 09.1	5.45767	4.53226
Jan 25	8 15 54.13	-02 32 09.2	5.46047	4.53421
Jan 26	8 15 19.45	-02 29 04.2	5.46328	4.53646
Jan 27	8 14 44.87	-02 25 54.4	5.46608	4.53901
Jan 28	8 14 10.44	-02 22 39.9	5.46887	4.54187
Jan 29	8 13 36.16	-02 19 20.7	5.47166	4.54504
Jan 30	8 13 02.06	-02 15 56.9	5.47445	4.54851
Jan 31	8 12 28.15	-02 12 28.8	5.47723	4.55228
Feb 01	8 11 54.46	-02 08 56.3	5.48001	4.55635
Feb 02	8 11 21.02	-02 05 17.9	5.48279	4.56073
Feb 03	8 10 47.56	-02 01 51.1	5.48559	4.56556
Feb 04	8 10 14.92	-01 57 54.3	5.48832	4.57039
Feb 05	8 09 42.32	-01 54 05.8	5.49108	4.57567
Feb 06	8 09 10.03	-01 50 13.7	5.49384	4.58125
Feb 07	8 08 38.08	-01 46 17.9	5.49659	4.58713
Feb 08	8 08 06.50	-01 42 18.7	5.49934	4.59330
Feb 09	8 07 35.30	-01 38 16.1	5.50209	4.59977
Feb 10	8 07 04.51	-01 34 10.4	5.50483	4.60654
Feb 11	8 06 34.14	-01 30 01.6	5.50756	4.61359
Feb 12	8 06 04.23	-01 25 49.9	5.51030	4.62094
Feb 13	8 05 34.66	-01 21 35.4	5.51303	4.62857
Feb 14	8 05 05.63	-01 17 18.3	5.51575	4.63644
Feb 15	8 04 37.09	-01 12 58.7	5.51847	4.64468
Feb 16	8 04 09.06	-01 08 36.8	5.52119	4.65317
Feb 17	8 03 41.54	-01 04 12.7	5.52390	4.66193
Feb 18	8 03 14.57	-00 59 46.5	5.52660	4.67096
Feb 19	8 02 48.13	-00 55 18.4	5.52931	4.68026
Feb 20	8 02 22.28	-00 50 48.6	5.53201	4.68983
Feb 21	8 01 57.01	-00 46 17.2	5.53470	4.69966
Feb 22	8 01 32.33	-00 41 44.4	5.53739	4.70976
Feb 23	8 01 08.24	-00 37 10.2	5.54007	4.72011
Feb 24	8 00 44.78	-00 32 32.8	5.54276	4.73071
Feb 25	8 00 21.94	-00 27 58.4	5.54543	4.74156
Feb 26	7 59 59.72	-00 23 21.0	5.54810	4.75266
Feb 27	7 59 27.91	-00 18 03.3	5.55077	4.76438
Feb 28	7 59 17.29	-00 14 04.4	5.55344	4.77557
Mar 01	7 58 57.05	-00 09 25.1	5.55610	4.78738
Mar 02	7 58 37.49	-00 04 45.6	5.55875	4.79942

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Mar 03	7 58 18.60	-00 00 05.8	5.56140	4.81168
Mar 04	7 58 00.39	+00 04 34.1	5.56405	4.82416
Mar 05	7 57 42.89	+00 09 14.1	5.66669	4.83686
Mar 06	7 57 26.03	+00 13 53.9	5.56933	4.84969
Mar 07	7 57 09.95	+00 18 33.6	5.57196	4.86290
Mar 08	7 56 54.54	+00 23 12.9	5.57492	4.87623
Mar 09	7 56 39.82	+00 27 52.0	5.57722	4.88978
Mar 10	7 56 25.87	+00 32 30.2	5.57984	4.90350
Mar 11	7 56 12.61	+00 37 08.0	5.58246	4.91743
Mar 12	7 56 00.10	+00 41 44.7	5.58507	4.93153
Mar 13	7 55 48.31	+00 46 20.7	5.58768	4.94583
Mar 14	7 55 37.26	+00 50 55.7	5.59028	4.96031
Mar 15	7 55 26.45	+00 55 29.6	5.59288	4.97496
Mar 16	7 55 17.18	+01 00 03.1	5.59547	4.98980
Mar 17	7 55 08.55	+01 04 33.7	5.59806	5.00478
Mar 18	7 55 00.47	+01 09 03.6	5.60065	5.01993
Mar 19	7 54 53.14	+01 13 32.1	5.60323	5.03524
Mar 20	7 54 46.55	+01 17 59.0	5.60581	5.05069
Mar 21	7 54 40.72	+01 22 24.1	5.60839	5.06630
Mar 22	7 54 35.62	+01 26 47.5	5.61096	5.08205
Mar 23	7 54 31.28	+01 31 09.9	5.61352	5.09793
Mar 24	7 54 27.67	+01 35 28.5	5.61608	5.11394
Mar 25	7 54 24.81	+01 39 46.1	5.61864	5.13008
Mar 26	7 54 22.69	+01 44 01.4	5.62119	5.14634
Mar 27	7 54 21.30	+01 48 14.6	5.62374	5.16272
Mar 28	7 54 20.65	+01 52 25.6	5.62629	5.17920
Mar 29	7 54 20.72	+01 56 34.2	5.62883	5.19580
Mar 30	7 54 21.51	+02 00 40.5	5.63136	5.21250
Mar 31	7 54 23.18	+02 04 44.2	5.63392	5.22931
Apr 01	7 54 25.26	+02 08 45.6	5.63642	5.24618
Apr 02	7 54 25.67	+02 12 45.8	5.63894	5.26332
Apr 03	7 54 31.81	+02 16 40.5	5.64146	5.28022
Apr 04	7 54 36.21	+02 20 34.1	5.64398	5.29737
Apr 05	7 54 41.26	+02 24 24.9	5.64649	5.31459
Apr 06	7 54 46.96	+02 28 13.0	5.64899	5.33188
Apr 07	7 54 53.45	+02 31 58.3	5.65149	5.34924
Apr 08	7 55 00.57	+02 35 40.7	5.65399	5.36667
Apr 09	7 55 08.38	+02 39 20.2	5.65648	5.38416
Apr 10	7 55 16.87	+02 42 56.9	5.65897	5.40170
Apr 11	7 55 26.06	+02 46 32.4	5.66146	5.41929
Apr 12	7 55 35.96	+02 50 08.1	5.66394	5.43692
Apr 13	7 55 46.36	+02 53 28.6	5.66642	5.45460
Apr 14	7 55 57.51	+02 56 53.0	5.66889	5.47232
Apr 15	7 56 09.31	+03 00 14.3	5.67136	5.49007
Apr 16	7 56 21.76	+03 03 32.4	5.67382	5.50784
Apr 17	7 56 34.85	+03 06 47.3	5.67628	5.52564
Apr 18	7 56 48.57	+03 09 58.9	5.67874	5.54346
Apr 19	7 57 02.92	+03 13 07.3	5.68119	5.56129
Apr 20	7 57 17.89	+03 16 12.3	5.68363	5.57913
Apr 21	7 57 33.47	+03 19 14.0	5.68608	5.59698
Apr 22	7 57 49.65	+03 22 12.4	5.68851	5.61483
Apr 23	7 58 06.43	+03 25 07.4	5.69095	5.63267
Apr 24	7 58 23.81	+03 27 59.0	5.69338	5.65051

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Apr 25	7 58 42.64	+03 30 46.7	5.69580	5.66827
Apr 26	7 59 00.43	+03 33 31.9	5.69825	5.68617
Apr 27	7 59 19.52	+03 36 13.2	5.70067	5.70396
Apr 28	7 59 39.17	+03 38 51.1	5.70308	5.72173
Apr 29	7 59 59.36	+03 41 25.6	5.70545	5.73948
Apr 30	8 00 20.10	+03 43 56.6	5.70790	5.75720
May 01	8 00 41.38	+03 46 24.1	5.71030	5.77488
May 02	8 01 03.18	+03 48 48.2	5.71269	5.79253
May 03	8 01 25.51	+03 51 08.8	5.71509	5.81014
May 04	8 01 52.34	+03 53 09.9	5.71747	5.82740
May 05	8 02 15.68	+03 55 23.6	5.71986	5.84493

Calculated orbital elements:

Near giant planet

Epoch 2018 May 5.0 = JDT 2458243.5

n 0.11498545, Peri 153.44569, Node 183.22245, a 4.1883291, e 0.5383032,
Incl 20.93993 , P 8.57

Magn V +23.28m on January 15, 2018.

Magn V +23.83m on May 5, 2018.

Note: Near giant planet orbital motion must to have next approximate
precessional values:

- precession of the nodes 33.3"/ day ;
- increase of the perihelion argument 39.4 "/day;
- accordingly we have anomalistic precession of perihelion 6.1 "/day.

Anomalistic period 3177.5 ± 3 days.