

GEOCENTRIC POSITIONS FOR 0^h TERRESTRIAL TIME

Date	Astrometric Right Ascension J2000.0	Astrometric Declination J2000.0	True Geocentric Distance	Date	Astrometric Right Ascension J2000.0	Astrometric Declination J2000.0	True Geocentric Distance
	h m s	° / ' "			h m s	° / ' "	
Jan. -4	17 11 28.177	-13 44 20.18	31.520204	June 30	17 11 25.589	-13 27 22.31	29.718830
1	17 12 12.503	-13 45 12.08	31.493532	July 5	17 10 55.925	-13 27 51.54	29.752050
6	17 12 55.686	-13 45 54.59	31.460112	10	17 10 27.717	-13 28 29.67	29.791800
11	17 13 37.452	-13 46 27.70	31.420215	15	17 10 01.216	-13 29 16.62	29.837759
16	17 14 17.555	-13 46 51.50	31.374175	20	17 09 36.652	-13 30 12.26	29.889611
21	17 14 55.769	-13 47 06.20	31.322349	25	17 09 14.253	-13 31 16.50	29.947022
26	17 15 31.880	-13 47 12.00	31.265103	30	17 08 54.246	-13 32 29.18	30.009606
31	17 16 05.666	-13 47 09.12	31.202825	Aug. 4	17 08 36.839	-13 33 50.04	30.076900
Feb. 5	17 16 36.910	-13 46 57.82	31.135988	9	17 08 22.205	-13 35 18.70	30.148389
10	17 17 05.419	-13 46 38.55	31.065132	14	17 08 10.473	-13 36 54.70	30.223554
15	17 17 31.040	-13 46 11.81	30.990820	19	17 08 01.758	-13 38 37.60	30.301901
20	17 17 53.643	-13 45 38.14	30.913610	24	17 07 56.172	-13 40 26.98	30.382911
25	17 18 13.110	-13 44 58.06	30.834047	29	17 07 53.811	-13 42 22.32	30.466018
Mar. 2	17 18 29.322	-13 44 12.09	30.752713	Sept. 3	17 07 54.742	-13 44 23.03	30.550607
7	17 18 42.186	-13 43 20.89	30.670251	8	17 07 58.983	-13 46 28.38	30.636053
12	17 18 51.651	-13 42 25.17	30.587324	13	17 08 06.527	-13 48 37.71	30.721778
17	17 18 57.702	-13 41 25.69	30.504575	18	17 08 17.359	-13 50 50.36	30.807220
22	17 19 00.353	-13 40 23.19	30.422608	23	17 08 31.455	-13 53 05.67	30.891803
27	17 18 59.617	-13 39 18.34	30.342005	28	17 08 48.773	-13 55 22.93	30.974918
Apr. 1	17 18 55.526	-13 38 11.87	30.263386	Oct. 3	17 09 09.231	-13 57 41.33	31.055943
6	17 18 48.151	-13 37 04.59	30.187385	8	17 09 32.708	-14 00 00.05	31.134305
11	17 18 37.605	-13 35 57.32	30.114605	13	17 09 59.077	-14 02 18.35	31.209489
16	17 18 24.032	-13 34 50.87	30.045593	18	17 10 28.205	-14 04 35.53	31.280999
21	17 18 07.592	-13 33 45.97	29.980831	23	17 10 59.952	-14 06 50.90	31.348332
26	17 17 48.441	-13 32 43.28	29.920789	28	17 11 34.154	-14 09 03.69	31.410981
May 1	17 17 26.765	-13 31 43.55	29.865953	Nov. 2	17 12 10.607	-14 11 13.11	31.468471
6	17 17 02.788	-13 30 47.54	29.816769	7	17 12 49.090	-14 13 18.46	31.520414
11	17 16 36.766	-13 29 55.98	29.773620	12	17 13 29.389	-14 15 19.15	31.566479
16	17 16 08.967	-13 29 09.51	29.736805	17	17 14 11.287	-14 17 14.59	31.606354
21	17 15 39.654	-13 28 28.67	29.706561	22	17 14 54.559	-14 19 04.23	31.639734
26	17 15 09.089	-13 27 53.97	29.683125	27	17 15 38.956	-14 20 47.47	31.666340
31	17 14 37.562	-13 27 25.99	29.666712	Dec. 2	17 16 24.200	-14 22 23.77	31.685974
June 5	17 14 05.386	-13 27 05.25	29.657467	7	17 17 10.020	-14 23 52.73	31.698532
10	17 13 32.882	-13 26 52.20	29.655451	12	17 17 56.158	-14 25 14.04	31.703950
15	17 13 00.362	-13 26 47.14	29.660640	17	17 18 42.360	-14 26 27.41	31.702189
20	17 12 28.111	-13 26 50.31	29.672978	22	17 19 28.362	-14 27 32.56	31.693229
25	17 11 56.419	-13 27 01.95	29.692411	27	17 20 13.877	-14 28 29.25	31.677107
30	17 11 25.589	-13 27 22.31	29.718830	32	17 20 58.620	-14 29 17.33	31.653964

HELIOCENTRIC POSITIONS FOR 0^h TERRESTRIAL TIME

MEAN EQUINOX AND ECLIPTIC OF DATE

Date	Longitude	Latitude	Radius Vector	Date	Longitude	Latitude	Radius Vector
	° / ' "	° / ' "			° / ' "	° / ' "	
Jan. 1	257 35 38.9	+ 9 28 18.0	30.59515	July 20	258 51 18.0	+ 9 09 07.3	30.67284
Feb. 10	257 50 49.0	+ 9 24 28.7	30.61047	Aug. 29	259 06 22.4	+ 9 05 16.0	30.68871
Mar. 22	258 05 58.0	+ 9 20 38.9	30.62589	Oct. 8	259 21 25.6	+ 9 01 24.3	30.70469
May 1	258 21 05.8	+ 9 16 48.8	30.64143	Nov. 17	259 36 27.7	+ 8 57 32.2	30.72077
June 10	258 36 12.5	+ 9 12 58.2	30.65708	Dec. 27	259 51 28.6	+ 8 53 39.7	30.73697
July 20	258 51 18.0	+ 9 09 07.3	30.67284	Dec. 67	260 06 28.3	+ 8 49 47.0	30.75327