

Custom Ephemeris

Compiled by: APS

Calculated by: JPL Horizons

Date: 2023-11-23

C/2022 E3 (ZTF)

Discovered: 2022-03-02.54453

Orbital Period: not defined

Diameter: n/a

Perihelion: 2023-01-12, 18:54:32 UT

Links:

[SBDB](#)

[MPC](#)

Date	UT	JD	AU	RA	Declination	Latitude	Longitude	Rx
2023-Jan-01	12:00	2459946.0	1.1274	238°27'47.03"	+31°13'33.48"	+49°57'17.66"	15° Sco 57'29.60"	Rx
2023-Jan-02	12:00	2459947.0	1.1248	238°24'42.57"	+31°40'58.19"	+50°22'21.91"	15° Sco 39'42.86"	Rx
2023-Jan-03	12:00	2459948.0	1.1225	238°21'09.10"	+32°10'11.03"	+50°48'57.94"	15° Sco 20'06.25"	Rx
2023-Jan-04	12:00	2459949.0	1.1204	238°17'03.33"	+32°41'21.84"	+51°17'13.48"	14° Sco 58'26.00"	Rx
2023-Jan-05	12:00	2459950.0	1.1186	238°12'21.47"	+33°14'41.73"	+51°47'17.11"	14° Sco 34'25.85"	Rx
2023-Jan-06	12:00	2459951.0	1.1170	238°06'59.04"	+33°50'23.27"	+52°19'18.41"	14° Sco 07'46.52"	Rx
2023-Jan-07	12:00	2459952.0	1.1156	238°00'50.77"	+34°28'40.73"	+52°53'28.01"	13° Sco 38'05.02"	Rx
2023-Jan-08	12:00	2459953.0	1.1144	237°53'50.42"	+35°09'50.30"	+53°29'57.74"	13° Sco 04'53.65"	Rx
2023-Jan-09	12:00	2459954.0	1.1135	237°45'50.52"	+35°54'10.50"	+54°09'00.72"	12° Sco 27'38.86"	Rx
2023-Jan-10	12:00	2459955.0	1.1129	237°36'42.07"	+36°42'02.46"	+54°50'51.46"	11° Sco 45'39.64"	Rx
2023-Jan-11	12:00	2459956.0	1.1124	237°26'14.15"	+37°33'50.43"	+55°35'45.90"	10° Sco 58'05.36"	Rx
2023-Jan-12	12:00	2459957.0	1.1123	237°14'13.38"	+38°30'02.27"	+56°24'01.44"	10° Sco 03'52.93"	Rx
2023-Jan-13	12:00	2459958.0	1.1123	237°00'23.19"	+39°31'10.07"	+57°15'56.80"	9° Sco 01'42.83"	Rx
2023-Jan-14	12:00	2459959.0	1.1126	236°44'22.84"	+40°37'50.91"	+58°11'51.68"	7° Sco 49'53.70"	Rx
2023-Jan-15	12:00	2459960.0	1.1131	236°25'46.03"	+41°50'47.67"	+59°12'06.10"	6° Sco 26'14.73"	Rx
2023-Jan-16	12:00	2459961.0	1.1139	236°03'58.95"	+43°10'49.98"	+60°16'59.04"	4° Sco 47'54.81"	Rx
2023-Jan-17	12:00	2459962.0	1.1149	235°38'17.38"	+44°38'55.30"	+61°26'46.10"	2° Sco 51'07.14"	Rx
2023-Jan-18	12:00	2459963.0	1.1161	235°07'42.53"	+46°16'10.00"	+62°41'35.35"	0° Sco 30'47.05"	Rx
2023-Jan-19	12:00	2459964.0	1.1176	234°30'54.48"	+48°03'50.42"	+64°01'20.05"	27° Lib 40'00.44"	Rx
2023-Jan-20	12:00	2459965.0	1.1193	233°46'01.98"	+50°03'23.61"	+65°25'26.17"	24° Lib 09'20.12"	Rx
2023-Jan-21	12:00	2459966.0	1.1213	232°50'25.71"	+52°16'27.34"	+66°52'31.08"	19° Lib 45'50.15"	Rx
2023-Jan-22	12:00	2459967.0	1.1235	231°40'09.66"	+54°44'48.51"	+68°19'47.96"	14° Lib 12'11.01"	Rx
2023-Jan-23	12:00	2459968.0	1.1259	230°09'09.63"	+57°30'18.19"	+69°42'09.68"	7° Lib 06'37.45"	Rx
2023-Jan-24	12:00	2459969.0	1.1285	228°07'35.10"	+60°34'40.12"	+70°50'52.28"	28° Vir 06'15.79"	Rx
2023-Jan-25	12:00	2459970.0	1.1314	225°18'28.54"	+63°59'05.12"	+71°32'28.09"	16° Vir 58'16.80"	Rx
2023-Jan-26	12:00	2459971.0	1.1344	221°10'20.84"	+67°43'14.38"	+71°29'25.94"	4° Vir 01'06.94"	Rx
2023-Jan-27	12:00	2459972.0	1.1378	214°39'22.43"	+71°43'03.30"	+70°24'45.32"	20° Leo 19'42.91"	Rx
2023-Jan-28	12:00	2459973.0	1.1413	203°25'05.63"	+75°44'30.97"	+68°09'00.38"	7° Leo 23'26.17"	Rx
2023-Jan-29	12:00	2459974.0	1.1450	182°34'17.22"	+79°05'34.83"	+64°43'41.19"	26° Can 16'50.64"	Rx
2023-Jan-30	12:00	2459975.0	1.1490	149°02'26.79"	+80°06'32.93"	+60°18'30.46"	17° Can 18'00.57"	Rx
2023-Jan-31	12:00	2459976.0	1.1531	118°07'38.25"	+77°33'20.84"	+55°07'09.17"	10° Can 13'56.82"	Rx
2023-Feb-01	12:00	2459977.0	1.1575	100°18'27.80"	+72°40'59.12"	+49°24'46.21"	4° Can 41'44.61"	Rx
2023-Feb-02	12:00	2459978.0	1.1621	90°36'23.88"	+66°52'55.82"	+43°26'40.62"	0° Can 19'40.97"	Rx
2023-Feb-03	12:00	2459979.0	1.1669	84°51'01.65"	+60°50'04.68"	+37°27'10.15"	26° Gem 50'29.22"	Rx
2023-Feb-04	12:00	2459980.0	1.1718	81°07'46.82"	+54°53'32.28"	+31°38'16.69"	24° Gem 01'15.85"	Rx
2023-Feb-05	12:00	2459981.0	1.1770	78°33'42.34"	+49°15'27.14"	+26°08'52.38"	21° Gem 42'35.46"	Rx
2023-Feb-06	12:00	2459982.0	1.1823	76°42'04.58"	+44°02'31.26"	+21°04'25.54"	19° Gem 47'35.26"	Rx
2023-Feb-07	12:00	2459983.0	1.1879	75°18'12.26"	+39°17'39.27"	+16°27'24.07"	18° Gem 11'11.43"	Rx

2023-Feb-08	12:00	2459984.0	1.1936	74°13'25.54"	+35°01'10.66"	+12°17'59.64"	16° Gem 49'37.73"	Rx
2023-Feb-09	12:00	2459985.0	1.1995	73°22'19.59"	+31°11'48.33"	+8°34'55.08"	15° Gem 40'03.41"	Rx
2023-Feb-10	12:00	2459986.0	1.2056	72°41'21.63"	+27°47'23.04"	+5°16'04.16"	14° Gem 40'17.86"	Rx
2023-Feb-11	12:00	2459987.0	1.2118	72°08'06.75"	+24°45'23.99"	+2°19'00.12"	13° Gem 48'39.84"	Rx
2023-Feb-12	12:00	2459988.0	1.2183	71°40'53.02"	+22°03'17.90"	-0°18'46.20"	13° Gem 03'49.86"	Rx
2023-Feb-13	12:00	2459989.0	1.2248	71°18'26.69"	+19°38'39.61"	-2°39'36.06"	12° Gem 24'44.84"	Rx
2023-Feb-14	12:00	2459990.0	1.2316	70°59'53.15"	+17°29'17.17"	-4°45'37.92"	11° Gem 50'34.09"	Rx
2023-Feb-15	12:00	2459991.0	1.2385	70°44'31.08"	+15°33'13.57"	-6°38'45.68"	11° Gem 20'36.49"	Rx
2023-Feb-16	12:00	2459992.0	1.2455	70°31'48.70"	+13°48'46.65"	-8°20'38.82"	10° Gem 54'18.37"	Rx
2023-Feb-17	12:00	2459993.0	1.2527	70°21'21.10"	+12°14'27.95"	-9°52'43.41"	10° Gem 31'11.88"	Rx
2023-Feb-18	12:00	2459994.0	1.2601	70°12'48.52"	+10°49'01.27"	-11°16'13.60"	10° Gem 10'53.80"	Rx
2023-Feb-19	12:00	2459995.0	1.2676	70°05'55.04"	+9°31'21.14"	-12°32'13.07"	9° Gem 53'04.63"	Rx
2023-Feb-20	12:00	2459996.0	1.2752	70°00'27.74"	+8°20'31.28"	-13°41'36.51"	9° Gem 37'27.84"	Rx
2023-Feb-21	12:00	2459997.0	1.2830	69°56'15.94"	+7°15'43.29"	-14°45'10.91"	9° Gem 23'49.36"	Rx
2023-Feb-22	12:00	2459998.0	1.2909	69°53'10.82"	+6°16'15.51"	-15°43'36.75"	9° Gem 11'57.14"	Rx
2023-Feb-23	12:00	2459999.0	1.2989	69°51'04.95"	+5°21'31.97"	-16°37'28.92"	9° Gem 01'40.74"	Rx
2023-Feb-24	12:00	2460000.0	1.3071	69°49'52.05"	+4°31'01.54"	-17°27'17.60"	8° Gem 52'51.12"	Rx
2023-Feb-25	12:00	2460001.0	1.3154	69°49'26.76"	+3°44'17.23"	-18°13'28.98"	8° Gem 45'20.39"	Rx
2023-Feb-26	12:00	2460002.0	1.3237	69°49'44.48"	+3°00'55.53"	-18°56'25.83"	8° Gem 39'01.63"	Rx
2023-Feb-27	12:00	2460003.0	1.3323	69°50'41.25"	+2°20'35.89"	-19°36'28.02"	8° Gem 33'48.76"	Rx
2023-Feb-28	12:00	2460004.0	1.3409	69°52'13.65"	+1°43'00.34"	-20°13'52.95"	8° Gem 29'36.40"	Rx
2023-Mar-01	12:00	2460005.0	1.3496	69°54'18.68"	+1°07'53.06"	-20°48'55.90"	8° Gem 26'19.82"	Rx
2023-Mar-02	12:00	2460006.0	1.3584	69°56'53.74"	+0°35'00.10"	-21°21'50.33"	8° Gem 23'54.79"	Rx
2023-Mar-03	12:00	2460007.0	1.3674	69°59'56.55"	+0°04'09.15"	-21°52'48.13"	8° Gem 22'17.55"	Rx
2023-Mar-04	12:00	2460008.0	1.3764	70°03'25.09"	-0°24'50.75"	-22°21'59.85"	8° Gem 21'24.77"	Rx
2023-Mar-05	12:00	2460009.0	1.3855	70°07'17.58"	-0°52'09.32"	-22°49'34.85"	8° Gem 21'13.44"	Rx
2023-Mar-06	12:00	2460010.0	1.3948	70°11'32.47"	-1°17'55.27"	-23°15'41.51"	8° Gem 21'40.87"	
2023-Mar-07	12:00	2460011.0	1.4041	70°16'08.36"	-1°42'16.35"	-23°40'27.28"	8° Gem 22'44.66"	
2023-Mar-08	12:00	2460012.0	1.4135	70°21'04.02"	-2°05'19.54"	-24°03'58.87"	8° Gem 24'22.62"	
2023-Mar-09	12:00	2460013.0	1.4230	70°26'18.35"	-2°27'11.11"	-24°26'22.29"	8° Gem 26'32.82"	
2023-Mar-10	12:00	2460014.0	1.4325	70°31'50.38"	-2°47'56.71"	-24°47'42.98"	8° Gem 29'13.48"	
2023-Mar-11	12:00	2460015.0	1.4422	70°37'39.23"	-3°07'41.44"	-25°08'05.84"	8° Gem 32'23.01"	
2023-Mar-12	12:00	2460016.0	1.4519	70°43'44.11"	-3°26'29.95"	-25°27'35.31"	8° Gem 35'59.94"	
2023-Mar-13	12:00	2460017.0	1.4617	70°50'04.30"	-3°44'26.42"	-25°46'15.43"	8° Gem 40'02.95"	
2023-Mar-14	12:00	2460018.0	1.4716	70°56'39.13"	-4°01'34.69"	-26°04'09.88"	8° Gem 44'30.80"	
2023-Mar-15	12:00	2460019.0	1.4815	71°03'28.00"	-4°17'58.28"	-26°21'22.01"	8° Gem 49'22.33"	
2023-Mar-16	12:00	2460020.0	1.4916	71°10'30.33"	-4°33'40.39"	-26°37'54.91"	8° Gem 54'36.49"	
2023-Mar-17	12:00	2460021.0	1.5016	71°17'45.56"	-4°48'44.00"	-26°53'51.39"	9° Gem 00'12.27"	
2023-Mar-18	12:00	2460022.0	1.5118	71°25'13.20"	-5°03'11.83"	-27°09'14.05"	9° Gem 06'08.73"	
2023-Mar-19	12:00	2460023.0	1.5220	71°32'52.76"	-5°17'06.44"	-27°24'05.30"	9° Gem 12'24.99"	
2023-Mar-20	12:00	2460024.0	1.5322	71°40'43.81"	-5°30'30.15"	-27°38'27.33"	9° Gem 19'00.25"	
2023-Mar-21	12:00	2460025.0	1.5426	71°48'45.92"	-5°43'25.15"	-27°52'22.19"	9° Gem 25'53.73"	
2023-Mar-22	12:00	2460026.0	1.5529	71°56'58.72"	-5°55'53.43"	-28°05'51.76"	9° Gem 33'04.72"	
2023-Mar-23	12:00	2460027.0	1.5634	72°05'21.81"	-6°07'56.84"	-28°18'57.79"	9° Gem 40'32.54"	
2023-Mar-24	12:00	2460028.0	1.5738	72°13'54.82"	-6°19'37.07"	-28°31'41.89"	9° Gem 48'16.51"	
2023-Mar-25	12:00	2460029.0	1.5844	72°22'37.37"	-6°30'55.72"	-28°44'05.55"	9° Gem 56'15.99"	

2023-Mar-26	12:00	2460030.0	1.5949	72°31'29.09"	-6°41'54.24"	-28°56'10.14"	10° Gem 04'30.35"	
2023-Mar-27	12:00	2460031.0	1.6056	72°40'29.62"	-6°52'33.99"	-29°07'56.93"	10° Gem 12'58.99"	
2023-Mar-28	12:00	2460032.0	1.6162	72°49'38.62"	-7°02'56.24"	-29°19'27.11"	10° Gem 21'41.36"	
2023-Mar-29	12:00	2460033.0	1.6269	72°58'55.77"	-7°13'02.19"	-29°30'41.78"	10° Gem 30'36.91"	
2023-Mar-30	12:00	2460034.0	1.6377	73°08'20.76"	-7°22'52.92"	-29°41'41.97"	10° Gem 39'45.14"	
2023-Mar-31	12:00	2460035.0	1.6485	73°17'53.32"	-7°32'29.49"	-29°52'28.62"	10° Gem 49'05.59"	
2023-Apr-01	12:00	2460036.0	1.6593	73°27'33.17"	-7°41'52.86"	-30°03'02.63"	10° Gem 58'37.83"	
2023-Apr-02	12:00	2460037.0	1.6701	73°37'20.07"	-7°51'03.95"	-30°13'24.82"	11° Gem 08'21.44"	
2023-Apr-03	12:00	2460038.0	1.6810	73°47'13.80"	-8°00'03.59"	-30°23'35.99"	11° Gem 18'16.07"	
2023-Apr-04	12:00	2460039.0	1.6920	73°57'14.15"	-8°08'52.60"	-30°33'36.86"	11° Gem 28'21.37"	
2023-Apr-05	12:00	2460040.0	1.7029	74°07'20.94"	-8°17'31.71"	-30°43'28.11"	11° Gem 38'37.02"	
2023-Apr-06	12:00	2460041.0	1.7139	74°17'34.00"	-8°26'01.64"	-30°53'10.40"	11° Gem 49'02.74"	
2023-Apr-07	12:00	2460042.0	1.7250	74°27'53.17"	-8°34'23.04"	-31°02'44.32"	11° Gem 59'38.26"	
2023-Apr-08	12:00	2460043.0	1.7360	74°38'18.30"	-8°42'36.53"	-31°12'10.45"	12° Gem 10'23.34"	
2023-Apr-09	12:00	2460044.0	1.7471	74°48'49.27"	-8°50'42.70"	-31°21'29.34"	12° Gem 21'17.73"	
2023-Apr-10	12:00	2460045.0	1.7582	74°59'25.92"	-8°58'42.09"	-31°30'41.51"	12° Gem 32'21.22"	
2023-Apr-11	12:00	2460046.0	1.7693	75°10'08.11"	-9°06'35.24"	-31°39'47.45"	12° Gem 43'33.57"	
2023-Apr-12	12:00	2460047.0	1.7805	75°20'55.70"	-9°14'22.67"	-31°48'47.63"	12° Gem 54'54.53"	
2023-Apr-13	12:00	2460048.0	1.7917	75°31'48.54"	-9°22'04.88"	-31°57'42.51"	13° Gem 06'23.89"	
2023-Apr-14	12:00	2460049.0	1.8029	75°42'46.46"	-9°29'42.35"	-32°06'32.53"	13° Gem 18'01.41"	
2023-Apr-15	12:00	2460050.0	1.8141	75°53'49.34"	-9°37'15.57"	-32°15'18.11"	13° Gem 29'46.88"	
2023-Apr-16	12:00	2460051.0	1.8254	76°04'57.04"	-9°44'45.00"	-32°23'59.66"	13° Gem 41'40.10"	
2023-Apr-17	12:00	2460052.0	1.8366	76°16'09.42"	-9°52'11.08"	-32°32'37.56"	13° Gem 53'40.86"	
2023-Apr-18	12:00	2460053.0	1.8479	76°27'26.37"	-9°59'34.23"	-32°41'12.19"	14° Gem 05'49.01"	
2023-Apr-19	12:00	2460054.0	1.8592	76°38'47.76"	-10°06'54.84"	-32°49'43.90"	14° Gem 18'04.34"	
2023-Apr-20	12:00	2460055.0	1.8705	76°50'13.45"	-10°14'13.30"	-32°58'13.04"	14° Gem 30'26.68"	
2023-Apr-21	12:00	2460056.0	1.8819	77°01'43.30"	-10°21'29.94"	-33°06'39.91"	14° Gem 42'55.82"	
2023-Apr-22	12:00	2460057.0	1.8932	77°13'17.15"	-10°28'45.10"	-33°15'04.82"	14° Gem 55'31.54"	
2023-Apr-23	12:00	2460058.0	1.9046	77°24'54.81"	-10°35'59.09"	-33°23'28.06"	15° Gem 08'13.62"	
2023-Apr-24	12:00	2460059.0	1.9159	77°36'36.13"	-10°43'12.20"	-33°31'49.88"	15° Gem 21'01.84"	
2023-Apr-25	12:00	2460060.0	1.9273	77°48'20.93"	-10°50'24.73"	-33°40'10.55"	15° Gem 33'55.98"	
2023-Apr-26	12:00	2460061.0	1.9387	78°00'09.04"	-10°57'36.96"	-33°48'30.30"	15° Gem 46'55.84"	
2023-Apr-27	12:00	2460062.0	1.9502	78°12'00.32"	-11°04'49.15"	-33°56'49.35"	16° Gem 00'01.23"	
2023-Apr-28	12:00	2460063.0	1.9616	78°23'54.62"	-11°12'01.55"	-34°05'07.93"	16° Gem 13'11.97"	
2023-Apr-29	12:00	2460064.0	1.9730	78°35'51.80"	-11°19'14.40"	-34°13'26.24"	16° Gem 26'27.89"	
2023-Apr-30	12:00	2460065.0	1.9845	78°47'51.74"	-11°26'27.95"	-34°21'44.47"	16° Gem 39'48.85"	
2023-May-01	12:00	2460066.0	1.9959	78°59'54.33"	-11°33'42.41"	-34°30'02.82"	16° Gem 53'14.71"	
2023-May-02	12:00	2460067.0	2.0074	79°11'59.46"	-11°40'57.99"	-34°38'21.45"	17° Gem 06'45.35"	
2023-May-03	12:00	2460068.0	2.0188	79°24'07.04"	-11°48'14.88"	-34°46'40.55"	17° Gem 20'20.66"	
2023-May-04	12:00	2460069.0	2.0303	79°36'17.00"	-11°55'33.29"	-34°55'00.27"	17° Gem 34'00.54"	
2023-May-05	12:00	2460070.0	2.0418	79°48'29.24"	-12°02'53.38"	-35°03'20.78"	17° Gem 47'44.92"	
2023-May-06	12:00	2460071.0	2.0533	80°00'43.70"	-12°10'15.32"	-35°11'42.23"	18° Gem 01'33.72"	
2023-May-07	12:00	2460072.0	2.0648	80°13'00.30"	-12°17'39.28"	-35°20'04.77"	18° Gem 15'26.83"	
2023-May-08	12:00	2460073.0	2.0763	80°25'18.96"	-12°25'05.40"	-35°28'28.55"	18° Gem 29'24.18"	
2023-May-09	12:00	2460074.0	2.0878	80°37'39.57"	-12°32'33.87"	-35°36'53.74"	18° Gem 43'25.66"	
2023-May-10	12:00	2460075.0	2.0993	80°50'02.05"	-12°40'04.84"	-35°45'20.46"	18° Gem 57'31.16"	

2023-May-11	12:00	2460076.0	2.1108	81°02'26.28"	-12°47'38.49"	-35°53'48.89"	19° Gem 11'40.58"	
2023-May-12	12:00	2460077.0	2.1224	81°14'52.18"	-12°55'15.01"	-36°02'19.17"	19° Gem 25'53.83"	
2023-May-13	12:00	2460078.0	2.1339	81°27'19.66"	-13°02'54.59"	-36°10'51.45"	19° Gem 40'10.80"	
2023-May-14	12:00	2460079.0	2.1454	81°39'48.63"	-13°10'37.41"	-36°19'25.89"	19° Gem 54'31.42"	
2023-May-15	12:00	2460080.0	2.1569	81°52'19.03"	-13°18'23.64"	-36°28'02.63"	20° Gem 08'55.62"	
2023-May-16	12:00	2460081.0	2.1685	82°04'50.77"	-13°26'13.44"	-36°36'41.82"	20° Gem 23'23.32"	
2023-May-17	12:00	2460082.0	2.1800	82°17'23.77"	-13°34'06.97"	-36°45'23.61"	20° Gem 37'54.44"	
2023-May-18	12:00	2460083.0	2.1915	82°29'57.91"	-13°42'04.38"	-36°54'08.12"	20° Gem 52'28.87"	
2023-May-19	12:00	2460084.0	2.2031	82°42'33.10"	-13°50'05.80"	-37°02'55.49"	21° Gem 07'06.50"	
2023-May-20	12:00	2460085.0	2.2146	82°55'09.20"	-13°58'11.35"	-37°11'45.84"	21° Gem 21'47.21"	
2023-May-21	12:00	2460086.0	2.2261	83°07'46.08"	-14°06'21.16"	-37°20'39.28"	21° Gem 36'30.85"	
2023-May-22	12:00	2460087.0	2.2377	83°20'23.60"	-14°14'35.36"	-37°29'35.93"	21° Gem 51'17.28"	
2023-May-23	12:00	2460088.0	2.2492	83°33'01.61"	-14°22'54.07"	-37°38'35.89"	22° Gem 06'06.37"	
2023-May-24	12:00	2460089.0	2.2607	83°45'40.00"	-14°31'17.40"	-37°47'39.27"	22° Gem 20'57.98"	
2023-May-25	12:00	2460090.0	2.2723	83°58'18.64"	-14°39'45.46"	-37°56'46.15"	22° Gem 35'52.01"	
2023-May-26	12:00	2460091.0	2.2838	84°10'57.41"	-14°48'18.37"	-38°05'56.63"	22° Gem 50'48.34"	
2023-May-27	12:00	2460092.0	2.2953	84°23'36.20"	-14°56'56.24"	-38°15'10.79"	23° Gem 05'46.87"	
2023-May-28	12:00	2460093.0	2.3069	84°36'14.92"	-15°05'39.15"	-38°24'28.74"	23° Gem 20'47.51"	
2023-May-29	12:00	2460094.0	2.3184	84°48'53.48"	-15°14'27.22"	-38°33'50.53"	23° Gem 35'50.20"	
2023-May-30	12:00	2460095.0	2.3299	85°01'31.79"	-15°23'20.53"	-38°43'16.27"	23° Gem 50'54.85"	
2023-May-31	12:00	2460096.0	2.3414	85°14'09.76"	-15°32'19.17"	-38°52'46.02"	24° Gem 06'01.42"	