

8 Apr 2019 17:53

:28

Approved AGI Educational Alliance Partner

Satellite-CubeSat: Orbit Lifetime

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Ecc
entricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)
of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Co
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1 Jan 2021 17:42:50.142	6777.470591	6777.471873	0
.00043499	51.558120	166.876141	34.419482
402.283038	396.386708	5552.806842	
0			
2 Jan 2021 09:06:20.987	6777.455082	6777.456139	0
.00039492	51.558163	172.572466	31.193849
401.995706	396.642573	5552.787506	
10			
3 Jan 2021 00:29:51.723	6777.439041	6777.439891	0
.00035412	51.558243	179.265757	27.968224
401.702919	396.902862	5552.767537	
20			
3 Jan 2021 15:53:22.259	6777.423841	6777.424505	0
.00031299	51.558350	187.285624	24.742623
401.408773	397.166236	5552.748628	
30			
4 Jan 2021 07:16:52.592	6777.407474	6777.407976	0
.00027216	51.558468	197.039433	21.517058
401.115491	397.426461	5552.728316	
40			
4 Jan 2021 22:40:22.713	6777.390868	6777.391235	0
.00023276	51.558579	209.050975	18.291533
400.831714	397.676755	5552.707741	
50			
5 Jan 2021 14:03:52.623	6777.374972	6777.375234	0
.00019668	51.558666	223.941112	15.066041
400.571193	397.905275	5552.688077	
60			
6 Jan 2021 05:27:22.318	6777.357738	6777.357926	0
.00016679	51.558714	242.000090	11.840573
400.351344	398.090508	5552.666807	
70			
6 Jan 2021 20:50:51.792	6777.340671	6777.340818	0
.00014702	51.558712	262.475345	8.615109
400.200209	398.207427	5552.645782	
80			
7 Jan 2021 12:14:21.050	6777.324352	6777.324487	0
.00014111	51.558653	282.462420	5.389621
400.143823	398.231152	5552.625713	

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
8 Jan 2021 03:37:50.091	6777.306747	6777.306898	.00014929	51.558548	297.948917	2.164071	400.181652	398.158145	5552.604097	0
8 Jan 2021 19:01:18.913	6777.289785	6777.289976	.00016784	51.558426	307.846044	358.938437	400.290454	398.015498	5552.583300	0
9 Jan 2021 10:24:47.523	6777.273074	6777.273325	.00019237	51.558319	313.848185	355.712724	400.440092	397.832557	5552.562837	0
10 Jan 2021 01:48:15.916	6777.255260	6777.255588	.00022011	51.558247	317.737562	352.486956	400.610325	397.626852	5552.541040	0
10 Jan 2021 17:11:44.091	6777.238297	6777.238720	.00024981	51.558218	320.476647	349.261157	400.794739	397.408700	5552.520310	0
11 Jan 2021 08:35:12.053	6777.221252	6777.221787	.00028081	51.558230	322.576342	346.035357	400.987873	397.181701	5552.499500	0
11 Jan 2021 23:58:39.796	6777.203299	6777.203962	.00031270	51.558272	324.313349	342.809578	401.186190	396.947734	5552.477595	0
12 Jan 2021 15:22:07.323	6777.186496	6777.187304	.00034537	51.558327	325.808103	339.583833	401.390963	396.709646	5552.457124	0
13 Jan 2021 06:45:34.636	6777.169221	6777.170192	.00037865	51.558375	327.154737	336.358129	401.599352	396.467033	5552.436094	0
13 Jan 2021 22:09:01.731	6777.151436	6777.152589	.00041245	51.558400	328.408249	333.132459	401.810797	396.220380	5552.414460	0
14 Jan 2021 13:32:28.612	6777.134828	6777.136180	.00044676	51.558390	329.584244	329.906807	402.026944	395.971417	5552.394296	0
15 Jan 2021 04:55:55.281	6777.117484	6777.119055	.00048149	51.558339	330.714935	326.681157				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Coefficient
402.245198	395.718913	5552.373251								
210										
15 Jan 2021 20:19:21.732	6777.100011	6777.101820	0							
.00051665	51.558249	331.815748	323.455487							
402.466186	395.463455	5552.352070								
220										
16 Jan 2021 11:42:47.972	6777.083597	6777.085663	0							
.00055221	51.558127	332.884673	320.229776							
402.691026	395.206301	5552.332214								
230										
17 Jan 2021 03:06:14.002	6777.066308	6777.068652	0							
.00058812	51.557986	333.939100	317.004012							
402.917373	394.945931	5552.311309								
240										
17 Jan 2021 18:29:39.817	6777.049205	6777.051847	0							
.00062440	51.557840	334.983926	313.778182							
403.146434	394.683260	5552.290657								
250										
18 Jan 2021 09:53:05.424	6777.032954	6777.035915	0							
.00066102	51.557704	336.014041	310.552286							
403.378695	394.419135	5552.271078								
260										
19 Jan 2021 01:16:30.823	6777.015808	6777.019110	0							
.00069797	51.557591	337.041328	307.326326							
403.612237	394.151982	5552.250426								
270										
19 Jan 2021 16:39:56.011	6776.999141	6777.002804	0							
.00073524	51.557512	338.066471	304.100311							
403.848531	393.883078	5552.230388								
280										
20 Jan 2021 08:03:20.996	6776.983083	6776.987130	0							
.00077281	51.557470	339.085015	300.874256							
404.087462	393.612798	5552.211125								
290										
20 Jan 2021 23:26:45.777	6776.966194	6776.970647	0							
.00081068	51.557467	340.106141	297.648176							
404.327589	393.339706	5552.190869								
300										
21 Jan 2021 14:50:10.353	6776.950025	6776.954908	0							
.00084884	51.557498	341.127952	294.422087							
404.570450	393.065366	5552.171527								
310										
22 Jan 2021 06:13:34.731	6776.934206	6776.939541	0							
.00088726	51.557553	342.147726	291.196004							
404.815446	392.789636	5552.152643								
320										
22 Jan 2021 21:36:58.909	6776.917674	6776.923484	0							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Co
30 Jan 2021 14:17:34.125	6776.733561	6776.746965	0.00140636	51.556646	355.734338	249.256660	408.140489	389.079440	5551.915986	0
31 Jan 2021 05:40:55.853	6776.719110	6776.733306	0.00144737	51.556670	356.809648	246.030218	408.404724	388.787888	5551.899201	0
31 Jan 2021 21:04:17.401	6776.703635	6776.718649	0.00148847	51.556760	357.891333	242.803755	408.668611	388.494688	5551.881189	0
1 Feb 2021 12:27:38.763	6776.688457	6776.704313	0.00152966	51.556899	358.979745	239.577296	408.933399	388.201227	5551.863572	0
2 Feb 2021 03:50:59.946	6776.673807	6776.690531	0.00157091	51.557059	0.072132	236.350863	409.199090	387.907971	5551.846635	0
2 Feb 2021 19:14:20.946	6776.657995	6776.675609	0.00161220	51.557206	1.171696	233.124471	409.463951	387.613267	5551.828298	0
3 Feb 2021 10:37:41.760	6776.642811	6776.661340	0.00165353	51.557308	2.277422	229.898121	409.729768	387.318912	5551.810763	0
4 Feb 2021 02:01:02.393	6776.627740	6776.647206	0.00169486	51.557339	3.387843	226.671804	409.995662	387.024750	5551.793394	0
4 Feb 2021 17:24:22.839	6776.611516	6776.631943	0.00173617	51.557288	4.505530	223.445501	410.260360	386.729526	5551.774637	0
5 Feb 2021 08:47:43.096	6776.596164	6776.617574	0.00177749	51.557161	5.628704	220.219187	410.525936	386.435213	5551.756980	0
6 Feb 2021 00:11:03.168	6776.580487	6776.602902	0.00181873	51.556979	6.757036	216.992838	410.790724	386.141080	5551.738950	0
6 Feb 2021 15:34:23.047	6776.563845	6776.587287	0.00185991	51.556773	7.892449	213.766438	411.054155	385.846420	5551.719761	0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
7 Feb 2021 06:57:42.732	6776.548169	6776.572659	0.00190104	51.556578	9.033217	210.539977	411.318195	385.553124	5551.701785	0
7 Feb 2021 22:21:02.228	6776.531846	6776.557403	0.00194203	51.556428	10.179934	207.313458	411.580713	385.260094	5551.683038	0
8 Feb 2021 13:44:21.526	6776.514828	6776.541473	0.00198292	51.556344	11.333590	204.086892	411.841832	384.967114	5551.663461	0
9 Feb 2021 05:07:40.627	6776.498729	6776.526481	0.00202370	51.556338	12.493122	200.860295	412.103106	384.675857	5551.645038	0
9 Feb 2021 20:30:59.534	6776.481732	6776.510608	0.00206428	51.556407	13.659314	197.633689	412.362204	384.385012	5551.625532	0
10 Feb 2021 11:54:18.238	6776.464398	6776.494416	0.00210471	51.556535	14.832690	194.407089	412.619940	384.094892	5551.605635	0
11 Feb 2021 03:17:36.745	6776.447861	6776.479038	0.00214495	51.556702	16.012605	191.180509	412.877231	383.806846	5551.586737	0
11 Feb 2021 18:40:55.051	6776.430309	6776.462659	0.00218494	51.556880	17.199626	187.953956	413.131812	383.519507	5551.566610	0
12 Feb 2021 10:04:13.153	6776.412742	6776.446281	0.00222472	51.557045	18.394014	184.727429	413.384978	383.233583	5551.546483	0
13 Feb 2021 01:27:31.054	6776.395824	6776.430566	0.00226424	51.557174	19.595326	181.500920	413.637033	382.950098	5551.527171	0
13 Feb 2021 16:50:48.752	6776.377886	6776.413841	0.00230345	51.557253	20.803816	178.274419	413.885951	382.667731	5551.506619	0
14 Feb 2021 08:14:06.243	6776.360179	6776.397360	0.00234238	51.557274	22.019765	175.047912				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
414.133288	382.387432	5551.486365								
680										
14 Feb 2021 23:37:23.532	6776.343035	6776.381451	0							
.00238098	51.557239	23.242913	171.821385							
414.378913	382.109988	5551.466816								
690										
15 Feb 2021 15:00:40.616	6776.324876	6776.364536	0							
.00241921	51.557154	24.472988	168.594826							
414.620999	381.834072	5551.446029								
700										
16 Feb 2021 06:23:57.492	6776.307127	6776.348038	0							
.00245711	51.557035	25.710653	165.368226							
414.861259	381.560817	5551.425756								
710										
16 Feb 2021 21:47:14.165	6776.289797	6776.331966	0							
.00249460	51.556899	26.955560	162.141579							
415.099178	381.290754	5551.406006								
720										
17 Feb 2021 13:10:30.633	6776.271548	6776.314979	0							
.00253166	51.556763	28.207429	158.914888							
415.333284	381.022675	5551.385132								
730										
18 Feb 2021 04:33:46.894	6776.253855	6776.298553	0							
.00256833	51.556647	29.467146	155.688155							
415.565293	380.757814	5551.364947								
740										
18 Feb 2021 19:57:02.953	6776.236426	6776.282393	0							
.00260452	51.556566	30.734243	152.461392							
415.794352	380.496434	5551.345088								
750										
19 Feb 2021 11:20:18.807	6776.218172	6776.265408	0							
.00264024	51.556532	32.008621	149.234610							
416.019352	380.237464	5551.324217								
760										
20 Feb 2021 02:43:34.457	6776.200615	6776.249121	0							
.00267550	51.556549	33.291233	146.007822							
416.241978	379.982264	5551.304202								
770										
20 Feb 2021 18:06:49.907	6776.183136	6776.232910	0							
.00271022	51.556617	34.581509	142.781043							
416.461025	379.730795	5551.284281								
780										
21 Feb 2021 09:30:05.154	6776.164916	6776.215954	0							
.00274442	51.556728	35.879670	139.554283							
416.675765	379.482142	5551.263445								
790										
22 Feb 2021 00:53:20.200	6776.147525	6776.199823	0							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
030										
9 Mar 2021 10:10:19.942	6775.692053	6775.768644	0							
.00336208	51.558098	71.449250	58.880939							
420.412345	374.850943	5550.713781								1
040										
10 Mar 2021 01:33:29.646	6775.669320	6775.746489	0							
.00337475	51.558109	73.021809	55.653693							
420.475918	374.743059	5550.686557								1
050										
10 Mar 2021 16:56:39.096	6775.647480	6775.725176	0							
.00338627	51.558155	74.607694	52.426411							
420.532588	374.643764	5550.660367								1
060										
11 Mar 2021 08:19:48.293	6775.624713	6775.702885	0							
.00339664	51.558240	76.207420	49.199117							
420.580484	374.551287	5550.632977								1
070										
11 Mar 2021 23:42:57.227	6775.601397	6775.679997	0							
.00340591	51.558361	77.821509	45.971830							
420.620341	374.465652	5550.604851								1
080										
12 Mar 2021 15:06:05.899	6775.578873	6775.657845	0							
.00341398	51.558509	79.449657	42.744563							
420.652787	374.388903	5550.577632								1
090										
13 Mar 2021 06:29:14.308	6775.555235	6775.634526	0							
.00342088	51.558672	81.092890	39.517327							
420.676127	374.318925	5550.548977								1
100										
13 Mar 2021 21:52:22.446	6775.531500	6775.611058	0							
.00342663	51.558834	82.751311	36.290124							
420.691554	374.256561	5550.520140								1
110										
14 Mar 2021 13:15:30.315	6775.508444	6775.588211	0							
.00343114	51.558983	84.425063	33.062948							
420.699183	374.203238	5550.492066								1
120										
15 Mar 2021 04:38:37.916	6775.484702	6775.564623	0							
.00343446	51.559106	86.115273	29.835791							
420.698058	374.157188	5550.463082								1
130										
15 Mar 2021 20:01:45.245	6775.461218	6775.541239	0							
.00343659	51.559197	87.821763	26.608638							
420.689000	374.119477	5550.434347								1
140										
16 Mar 2021 11:24:52.307	6775.438243	6775.518302	0							
.00343744	51.559251	89.545356	23.381475							

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270	419.770641	374.428085	111.785782	51.559180	6775.137670	344.652533	5550.059727	374.428085	5550.059727	1
24 Mar 2021 19:24:59.345		6775.137670		51.559177	113.788838	341.425037				0
280	419.636282	374.515303	113.788838	51.559177	113.788838	341.425037	5550.030765	374.515303	5550.030765	1
25 Mar 2021 10:48:02.613		6775.115904		51.559134	115.818623	338.197544				0
290	419.493545	374.612914	115.818623	51.559134	115.818623	338.197544	5550.003040	374.612914	5550.003040	1
26 Mar 2021 02:11:05.617		6775.093774		51.559042	117.876873	334.970037				0
300	419.341224	374.719266	117.876873	51.559042	117.876873	334.970037	5549.974798	374.719266	5549.974798	1
26 Mar 2021 17:34:08.352		6775.071310		51.558896	119.963008	331.742492				0
310	419.179650	374.834098	119.963008	51.558896	119.963008	331.742492	5549.946081	374.834098	5549.946081	1
27 Mar 2021 08:57:10.821		6775.049956		51.558703	122.079364	328.514885				0
320	419.009910	374.959206	122.079364	51.558703	122.079364	328.514885	5549.918660	374.959206	5549.918660	1
28 Mar 2021 00:20:13.025		6775.027943		51.558478	124.227482	325.287194				0
330	418.830591	375.092475	124.227482	51.558478	124.227482	325.287194	5549.890369	375.092475	5549.890369	1
28 Mar 2021 15:43:14.959		6775.005730		51.558241	126.407023	322.059401				0
340	418.642332	375.234186	126.407023	51.558241	126.407023	322.059401	5549.861771	375.234186	5549.861771	1
29 Mar 2021 07:06:16.627		6774.984584		51.558017	128.621043	318.831503				0
350	418.446130	375.385878	128.621043	51.558017	128.621043	318.831503	5549.834425	375.385878	5549.834425	1
29 Mar 2021 22:29:18.027		6774.962540		51.557829	130.870671	315.603509				0
360	418.240454	375.545156	130.870671	51.557829	130.870671	315.603509	5549.805920	375.545156	5549.805920	1
30 Mar 2021 13:52:19.154		6774.940423		51.557695	133.155992	312.375439				0
370	418.026137	375.712843	133.155992	51.557695	133.155992	312.375439	5549.777272	375.712843	5549.777272	1
31 Mar 2021 05:15:20.011		6774.919209		51.557620	135.480626	309.147323				0
380	417.804033	375.890038	135.480626	51.557620	135.480626	309.147323	5549.749681	375.890038	5549.749681	1

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8 Apr 2021 13:14:05.104	6774.619779	6774.666030	0.00261288	51.556327	169.940201	267.181846	414.230410	378.827650	5549.358943	0
9 Apr 2021 04:37:01.826	6774.596131	6774.640896	0.00257054	51.556282	172.982404	263.953405	413.918408	379.089385	5549.328061	0
9 Apr 2021 19:59:58.230	6774.571623	6774.614915	0.00252791	51.556293	176.090706	260.724929	413.603539	379.352292	5549.296138	0
10 Apr 2021 11:22:54.308	6774.546734	6774.588571	0.00248507	51.556353	179.264568	257.496437	413.286869	379.616272	5549.263769	0
11 Apr 2021 02:45:50.063	6774.522937	6774.563342	0.00244215	51.556447	182.508002	254.267946	412.970865	379.881819	5549.232770	0
11 Apr 2021 18:08:45.495	6774.498159	6774.537158	0.00239933	51.556559	185.820889	251.039469	412.654496	380.145820	5549.200599	0
12 Apr 2021 09:31:40.597	6774.473384	6774.511009	0.00235668	51.556670	189.202659	247.811014	412.339330	380.408688	5549.168470	0
13 Apr 2021 00:54:35.375	6774.449683	6774.485971	0.00231442	51.556762	192.656292	244.582582	412.027960	380.669981	5549.137705	0
13 Apr 2021 16:17:29.828	6774.424955	6774.459946	0.00227268	51.556821	196.179481	241.354170	411.719137	380.926754	5549.105729	0
14 Apr 2021 07:40:23.951	6774.400601	6774.434337	0.00223158	51.556837	199.771120	238.125770	411.415035	381.179639	5549.074264	0
14 Apr 2021 23:03:17.753	6774.377170	6774.409702	0.00219139	51.556806	203.432264	234.897369	411.118084	381.427320	5549.043995	0
15 Apr 2021 14:26:11.230	6774.352762	6774.384141	0.00215221	51.556729	207.157912	231.668954				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Co
30 Apr 2021 23:34:04.593	6773.834128	6773.857669	0							
.00186419	51.555037	298.068646	154.177514							
408.348404	383.092933	5548.365738	1							
860										
1 May 2021 14:56:50.837	6773.813754	6773.837769	0							
.00188287	51.555149	301.089097	150.948349							
408.455056	382.946482	5548.341289	1							
870										
2 May 2021 06:19:36.814	6773.792230	6773.816770	0							
.00190337	51.555279	304.021431	147.719209							
408.572817	382.786723	5548.315489	1							
880										
2 May 2021 21:42:22.521	6773.771104	6773.796221	0							
.00192561	51.555396	306.866127	144.490084							
408.702919	382.615523	5548.290242	1							
890										
3 May 2021 13:05:07.962	6773.750218	6773.775962	0							
.00194951	51.555476	309.623420	141.260960							
408.844510	382.433414	5548.265352	1							
900										
4 May 2021 04:27:53.133	6773.728099	6773.754517	0							
.00197487	51.555504	312.302343	138.031818							
408.994805	382.240230	5548.239004	1							
910										
4 May 2021 19:50:38.030	6773.706629	6773.733770	0							
.00200168	51.555475	314.901912	134.802639							
409.155616	382.037924	5548.213514	1							
920										
5 May 2021 11:13:22.657	6773.684942	6773.712851	0							
.00202980	51.555395	317.425995	131.573408							
409.325152	381.826550	5548.187812	1							
930										
6 May 2021 02:36:07.006	6773.662169	6773.690888	0							
.00205910	51.555280	319.882779	128.344114							
409.501609	381.606168	5548.160829	1							
940										
6 May 2021 17:58:51.077	6773.640253	6773.669830	0							
.00208958	51.555146	322.270391	125.114753							
409.686967	381.378692	5548.134956	1							
950										
7 May 2021 09:21:34.872	6773.617603	6773.648077	0							
.00212107	51.555014	324.595458	121.885331							
409.878428	381.143727	5548.108231	1							
960										
8 May 2021 00:44:18.382	6773.594253	6773.625667	0							
.00215351	51.554902	326.863951	118.655855							
410.075723	380.901611	5548.080697	1							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
970										
8 May 2021 16:07:01.609	6773.571787	6773.604182	0							
.00218688	51.554827	329.073742	115.426339							
410.280241	380.654123	5548.054300								1
980										
9 May 2021 07:29:44.553	6773.548211	6773.581624	0							
.00222100	51.554797	331.233174	112.196800							
410.488758	380.400490	5548.026586								1
990										
9 May 2021 22:52:27.206	6773.524280	6773.558751	0							
.00225590	51.554816	333.345549	108.967254							
410.702225	380.141278	5547.998484								2
000										
10 May 2021 14:15:09.572	6773.501181	6773.536748	0							
.00229150	51.554882	335.409186	105.737715							
410.921288	379.878209	5547.971451								2
010										
11 May 2021 05:37:51.648	6773.476857	6773.513556	0							
.00232765	51.554987	337.433076	102.508196							
411.142955	379.610157	5547.942958								2
020										
11 May 2021 21:00:33.430	6773.452609	6773.490476	0							
.00236443	51.555120	339.417850	99.278704							
411.368927	379.338025	5547.914602								2
030										
12 May 2021 12:23:14.921	6773.428877	6773.467947	0							
.00240169	51.555266	341.362962	96.049239							
411.598708	379.063186	5547.886922								2
040										
13 May 2021 03:45:56.118	6773.404046	6773.444352	0							
.00243937	51.555408	343.277044	92.819799							
411.830318	378.784385	5547.857933								2
050										
13 May 2021 19:08:37.019	6773.379603	6773.421179	0							
.00247753	51.555532	345.158420	89.590372							
412.065507	378.502851	5547.829464								2
060										
14 May 2021 10:31:17.626	6773.355380	6773.398257	0							
.00251598	51.555625	347.008274	86.360945							
412.303000	378.219513	5547.801302								2
070										
15 May 2021 01:53:57.938	6773.330301	6773.374509	0							
.00255476	51.555681	348.833929	83.131502							
412.541888	377.933130	5547.772126								2
080										
15 May 2021 17:16:37.952	6773.305824	6773.351396	0							
.00259387	51.555695	350.632183	79.902022							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Coefficient
090	412.783581	377.645211	5547.743730	2						
16 May 2021 08:39:17.674	6773.281359	6773.328322	0							
.00263314	51.555671	352.406106	76.672490							
100	413.026447	377.356196	5547.715381	2						
17 May 2021 00:01:57.100	6773.256283	6773.304666	0							
.00267265	51.555617	354.161038	73.442892							
110	413.270361	377.064971	5547.686317	2						
17 May 2021 15:24:36.231	6773.231981	6773.281811	0							
.00271235	51.555548	355.893288	70.213218							
120	413.516355	376.773267	5547.658239	2						
18 May 2021 06:47:15.073	6773.207555	6773.258856	0							
.00275212	51.555479	357.607460	66.983470							
130	413.762686	376.481026	5547.630037	2						
18 May 2021 22:09:53.621	6773.182556	6773.235357	0							
.00279203	51.555428	359.306594	63.753654							
140	414.009439	376.187275	5547.601166	2						
19 May 2021 13:32:31.881	6773.158635	6773.212958	0							
.00283202	51.555411	0.987600	60.523784							
150	414.257822	375.894095	5547.573648	2						
20 May 2021 04:55:09.856	6773.134460	6773.190327	0							
.00287198	51.555437	2.655849	57.293882							
160	414.505806	375.600849	5547.545844	2						
20 May 2021 20:17:47.545	6773.109874	6773.167308	0							
.00291199	51.555509	4.312233	54.063971							
170	414.753695	375.306921	5547.517564	2						
21 May 2021 11:40:24.952	6773.086473	6773.145495	0							
.00295196	51.555622	5.954834	50.834073							
180	415.002519	375.014471	5547.490765	2						
22 May 2021 03:03:02.084	6773.062644	6773.123269	0							
.00299180	51.555760	7.588930	47.604205							
190	415.250129	374.722409	5547.463459	2						
22 May 2021 18:25:38.937	6773.038578	6773.100826	0							
.00303159	51.555905	9.213634	44.374376							
200	415.497063	374.430590	5547.435887	2						
23 May 2021 09:48:15.517	6773.015737	6773.079623	0							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Co
210	415.744132	374.141113	5547.409837	2						
24 May 2021 01:10:51.829	6772.992245	6773.057781	0							
220	415.989099	373.852462	5547.383003	2						
24 May 2021 16:33:27.869	6772.968743	6773.035941	0							
230	416.232865	373.565017	5547.356171	2						
25 May 2021 07:56:03.645	6772.946396	6773.015267	0							
240	416.475921	373.280612	5547.330772	2						
25 May 2021 23:18:39.158	6772.923032	6772.993581	0							
250	416.715896	372.997266	5547.304130	2						
26 May 2021 14:41:14.404	6772.900073	6772.972310	0							
260	416.954541	372.716079	5547.277998	2						
27 May 2021 06:03:49.394	6772.878077	6772.952005	0							
270	417.191680	372.438331	5547.253053	2						
27 May 2021 21:26:24.125	6772.854913	6772.930537	0							
280	417.425225	372.161848	5547.226677	2						
28 May 2021 12:48:58.596	6772.832427	6772.909750	0							
290	417.657225	371.888274	5547.201140	2						
29 May 2021 04:11:32.815	6772.810610	6772.889630	0							
300	417.886955	371.618306	5547.176422	2						
29 May 2021 19:34:06.781	6772.787585	6772.868303	0							
310	418.112726	371.349879	5547.150220	2						
30 May 2021 10:56:40.491	6772.765470	6772.847884	0							
320	418.336625	371.085142	5547.125135	2						

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
31 May 2021 02:19:13.954	6772.743657	6772.827760	0							
.00352388	51.556063	29.823226	2.384361							
418.557375	370.824145	5547.100412	2							
330										
31 May 2021 17:41:47.166	6772.720695	6772.806482	0							
.00355898	51.556141	31.392435	359.154226							
418.773750	370.565214	5547.074271	2							
340										
1 Jun 2021 09:04:20.126	6772.698815	6772.786277	0							
.00359356	51.556202	32.961873	355.924112							
418.987704	370.310849	5547.049449	2							
350										
2 Jun 2021 00:26:52.841	6772.676864	6772.765988	0							
.00362755	51.556233	34.533017	352.694008							
419.197554	370.060422	5547.024523	2							
360										
2 Jun 2021 15:49:25.304	6772.653933	6772.744706	0							
.00366098	51.556229	36.105753	349.463899							
419.402573	369.812839	5546.998378	2							
370										
3 Jun 2021 07:11:57.519	6772.632180	6772.724587	0							
.00369377	51.556191	37.680388	346.233766							
419.604485	369.570689	5546.973661	2							
380										
3 Jun 2021 22:34:29.488	6772.609879	6772.703899	0							
.00372588	51.556124	39.257913	343.003593							
419.801185	369.332612	5546.948245	2							
390										
4 Jun 2021 13:57:01.206	6772.587038	6772.682652	0							
.00375733	51.556039	40.838320	339.773368							
419.992879	369.098424	5546.922143	2							
400										
5 Jun 2021 05:19:32.676	6772.565378	6772.662561	0							
.00378805	51.555948	42.421940	336.543082							
420.180735	368.870387	5546.897461	2							
410										
5 Jun 2021 20:42:03.902	6772.542924	6772.641649	0							
.00381800	51.555864	44.009537	333.312736							
420.362606	368.646693	5546.871771	2							
420										
6 Jun 2021 12:04:34.877	6772.520331	6772.620573	0							
.00384721	51.555798	45.601183	330.082332							
420.539259	368.427888	5546.845878	2							
430										
7 Jun 2021 03:27:05.609	6772.498803	6772.600528	0							
.00387559	51.555760	47.197219	326.851881							
420.711329	368.215727	5546.821253	2							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

440										
7 Jun 2021 18:49:36.097	6772.476354	6772.579530								0
.00390314	51.555754	48.798310				323.621396				
420.876833	368.008228	5546.795456								2
450										
8 Jun 2021 10:12:06.340	6772.454199	6772.558793								0
.00392986	51.555779	50.404628				320.390892				
421.036994	367.806591	5546.769980								2
460										
9 Jun 2021 01:34:36.344	6772.432874	6772.538847								0
.00395567	51.555834	52.016545				317.160385				
421.191809	367.611885	5546.745476								2
470										
9 Jun 2021 16:57:06.108	6772.410649	6772.517961								0
.00398060	51.555907	53.634651				313.929890				
421.339673	367.422249	5546.719818								2
480										
10 Jun 2021 08:19:35.632	6772.389064	6772.497674								0
.00400463	51.555988	55.259210				310.699416				
421.482001	367.239348	5546.694896								2
490										
10 Jun 2021 23:42:04.922	6772.367881	6772.477745								0
.00402767	51.556062	56.890606				307.468972				
421.618047	367.063443	5546.670413								2
500										
11 Jun 2021 15:04:33.977	6772.346084	6772.457157								0
.00404977	51.556115	58.529471				304.238556				
421.747068	366.893246	5546.645120								2
510										
12 Jun 2021 06:27:02.798	6772.325115	6772.437348								0
.00407089	51.556134	60.176087				301.008163				
421.870177	366.730520	5546.620785								2
520										
12 Jun 2021 21:49:31.391	6772.304303	6772.417645								0
.00409095	51.556109	61.830947				297.777782				
421.986297	366.574993	5546.596580								2
530										
13 Jun 2021 13:11:59.754	6772.283075	6772.397476								0
.00411002	51.556035	63.494542				294.547394				
422.095150	366.425801	5546.571802								2
540										
14 Jun 2021 04:34:27.891	6772.262734	6772.378138								0
.00412801	51.555915	65.167231				291.316981				
422.197561	366.284716	5546.548046								2
550										
14 Jun 2021 19:56:55.805	6772.242391	6772.358740								0
.00414488	51.555759	66.849580				288.086521				

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
00425432	51.555094	87.929986	249.317530							
422.813304	365.191610	5546.254830	2							
23 Jun 2021 03:48:39.518	6771.999873	6772.122494	0							
00425520	51.554907	89.773396	246.086835							
422.802248	365.168741	5546.233992	2							
23 Jun 2021 19:11:04.591	6771.983785	6772.106381	0							
00425476	51.554653	91.632542	242.856114							
422.783050	365.155711	5546.214197	2							
24 Jun 2021 10:33:29.485	6771.967267	6772.089760	0							
00425299	51.554355	93.508370	239.625338							
422.754381	365.151138	5546.193778	2							
25 Jun 2021 01:55:54.199	6771.951287	6772.073601	0							
00424989	51.554049	95.400780	236.394489							
422.717190	365.156012	5546.173928	2							
25 Jun 2021 17:18:18.741	6771.936053	6772.058111	0							
00424543	51.553768	97.310956	233.163559							
422.671418	365.170803	5546.154898	2							
26 Jun 2021 08:40:43.110	6771.920292	6772.042014	0							
00423961	51.553540	99.239551	229.932550							
422.615846	365.194183	5546.135125	2							
27 Jun 2021 00:03:07.308	6771.905249	6772.026560	0							
00423243	51.553385	101.186453	226.701477							
422.551706	365.227413	5546.116139	2							
27 Jun 2021 15:25:31.341	6771.890677	6772.011495	0							
00422385	51.553307	103.153142	223.470358							
422.478435	365.270556	5546.097633	2							
28 Jun 2021 06:47:55.208	6771.875543	6771.995792	0							
00421388	51.553302	105.139837	220.239215							
422.395176	365.322408	5546.078343	2							
28 Jun 2021 22:10:18.909	6771.861190	6771.980792	0							
00420253	51.553353	107.146684	217.008068							
422.303266	365.384318	5546.059916	2							
29 Jun 2021 13:32:42.450	6771.847072	6771.965948	0							
00418976	51.553438	109.175397	213.776933							
422.201880	365.456016	5546.041680	2							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
30 Jun 2021 04:55:05.827	6771.832419	6771.950494	0							
.00417562	51.553533	111.225752	210.545819							
422.090571	365.536416	5546.022695	2							
800										
30 Jun 2021 20:17:29.041	6771.818628	6771.935825	0							
.00416009	51.553614	113.298481	207.314726							
421.970705	365.626945	5546.004676	2							
810										
1 Jul 2021 11:39:52.097	6771.804757	6771.921002	0							
.00414316	51.553662	115.395242	204.083652							
421.841138	365.726867	5545.986466	2							
820										
2 Jul 2021 03:02:14.988	6771.790447	6771.905669	0							
.00412488	51.553666	117.515526	200.852588							
421.701969	365.835369	5545.967630	2							
830										
2 Jul 2021 18:24:37.718	6771.777003	6771.891129	0							
.00410524	51.553620	119.660825	197.621520							
421.554383	365.953875	5545.949769	2							
840										
3 Jul 2021 09:47:00.286	6771.763174	6771.876136	0							
.00408424	51.553527	121.832361	194.390438							
421.397106	366.081165	5545.931350	2							
850										
4 Jul 2021 01:09:22.688	6771.749107	6771.860839	0							
.00406196	51.553397	124.029746	191.159330							
421.230835	366.216843	5545.912559	2							
860										
4 Jul 2021 16:31:44.925	6771.735808	6771.846244	0							
.00403834	51.553244	126.255036	187.928186							
421.056232	366.362256	5545.894630	2							
870										
5 Jul 2021 07:54:06.997	6771.721868	6771.830945	0							
.00401342	51.553084	128.508773	184.697003							
420.872142	366.515749	5545.875837	2							
880										
5 Jul 2021 23:16:28.898	6771.707919	6771.815580	0							
.00398728	51.552937	130.791102	181.465778							
420.679699	366.677462	5545.856962	2							
890										
6 Jul 2021 14:38:50.631	6771.694599	6771.800784	0							
.00395985	51.552821	133.104336	178.234518							
420.479101	366.848466	5545.838784	2							
900										
7 Jul 2021 06:01:12.193	6771.680507	6771.785162	0							
.00393121	51.552749	135.448397	175.003230							
420.269500	367.026823	5545.819594	2							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
910										
7 Jul 2021 21:23:33.579	6771.666681	6771.769755	0							
.00390142	51.552732	137.824180	171.771924							
420.052251	367.213258	5545.800667	2							
920										
8 Jul 2021 12:45:54.793	6771.653246	6771.754687	0							
.00387041	51.552773	140.233854	168.540612							
419.827140	367.408233	5545.782157	2							
930										
9 Jul 2021 04:08:15.830	6771.639069	6771.738835	0							
.00383830	51.552871	142.676892	165.309309							
419.593824	367.609845	5545.762684	2							
940										
9 Jul 2021 19:30:36.688	6771.625318	6771.723365	0							
.00380511	51.553014	145.154933	162.078022							
419.353537	367.819193	5545.743680	2							
950										
10 Jul 2021 10:52:57.369	6771.611770	6771.708059	0							
.00377084	51.553187	147.669852	158.846760							
419.106096	368.036022	5545.724878	2							
960										
11 Jul 2021 02:15:17.869	6771.597587	6771.692084	0							
.00373561	51.553369	150.220865	155.615523							
418.851474	368.258695	5545.705254	2							
970										
11 Jul 2021 17:37:38.185	6771.583886	6771.676560	0							
.00369940	51.553538	152.810186	152.384306							
418.590731	368.488389	5545.686184	2							
980										
12 Jul 2021 08:59:58.319	6771.570297	6771.661122	0							
.00366231	51.553672	155.439272	149.153098							
418.324048	368.724196	5545.667219	2							
990										
13 Jul 2021 00:22:18.267	6771.556125	6771.645080	0							
.00362442	51.553753	158.107147	145.921882							
418.051337	368.964823	5545.647513	3							
000										
13 Jul 2021 15:44:38.026	6771.542520	6771.629586	0							
.00358574	51.553771	160.816482	142.690638							
417.773856	369.211316	5545.628480	3							
010										
14 Jul 2021 07:06:57.599	6771.528985	6771.614152	0							
.00354641	51.553725	163.568124	139.459346							
417.492066	369.462237	5545.609520	3							
020										
14 Jul 2021 22:29:16.981	6771.514836	6771.598095	0							
.00350648	51.553626	166.360936	136.227989							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

030	417.205572	369.716619				5545.589795				3
15 Jul 2021 13:51:36.170		6771.501176				6771.582525				0
.00346602	51.553494				169.198163	132.996557				
040	416.915966	369.975085				5545.570669				3
16 Jul 2021 05:13:55.165		6771.487442				6771.566885				0
.00342519	51.553357				172.079606	129.765050				
050	416.623818	370.235953				5545.551457				3
16 Jul 2021 20:36:13.963		6771.473175				6771.550720				0
.00338402	51.553246				175.004049	126.533479				
060	416.328775	370.498665				5545.531599				3
17 Jul 2021 11:58:32.565		6771.459992				6771.535652				0
.00334264	51.553188				177.975143	123.301865				
070	416.033467	370.763836				5545.513089				3
18 Jul 2021 03:20:50.975		6771.446508				6771.520303				0
.00330120	51.553202				180.991242	120.070236				
080	415.737421	371.029185				5545.494234				3
18 Jul 2021 18:43:09.188		6771.432710				6771.504662				0
.00325971	51.553293				184.051572	116.838622				
090	415.440793	371.294531				5545.475021				3
19 Jul 2021 10:05:27.209		6771.420122				6771.490261				0
.00321837	51.553451				187.159575	113.607047				
100	415.146450	371.560071				5545.457330				3
20 Jul 2021 01:27:45.041		6771.406911				6771.475270				0
.00317729	51.553654				190.311697	110.375526				
110	414.853218	371.823323				5545.438915				3
20 Jul 2021 16:50:02.678		6771.393710				6771.460326				0
.00313652	51.553871				193.507960	107.144060				
120	414.562177	372.084475				5545.420558				3
21 Jul 2021 08:12:20.127		6771.381635				6771.446553				0
.00309630	51.554071				196.750375	103.912636				
130	414.275959	372.343148				5545.403639				3
21 Jul 2021 23:34:37.388		6771.368634				6771.431901				0
.00305667	51.554227				200.033689	100.681234				
140	413.992959	372.596844				5545.385640				3
22 Jul 2021 14:56:54.457		6771.355977				6771.417644				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
30 Jul 2021 07:24:04.585	6771.206577	6771.254474	0							
.00265960	51.554628	245.447452	58.669669							
411.126336	375.108612	5545.167688	3							
270										
30 Jul 2021 22:46:19.188	6771.193253	6771.240534	0							
.00264245	51.554764	249.010471	55.438026							
410.996216	375.210852	5545.150565	3							
280										
31 Jul 2021 14:08:33.588	6771.179010	6771.225760	0							
.00262759	51.554880	252.559385	52.206407							
410.880734	375.296787	5545.132417	3							
290										
1 Aug 2021 05:30:47.789	6771.165928	6771.212239	0							
.00261524	51.554967	256.088260	48.974798							
410.783560	375.366919	5545.115808	3							
300										
1 Aug 2021 20:53:01.790	6771.151551	6771.197511	0							
.00260530	51.555020	259.590031	45.743186							
410.701507	375.419514	5545.097716	3							
310										
2 Aug 2021 12:15:15.582	6771.136633	6771.182328	0							
.00259777	51.555041	263.062295	42.511552							
410.635275	375.455380	5545.079065	3							
320										
3 Aug 2021 03:37:29.168	6771.122722	6771.168243	0							
.00259283	51.555033	266.498525	39.279884							
410.587728	375.474758	5545.061764	3							
330										
3 Aug 2021 18:59:42.546	6771.107241	6771.152673	0							
.00259028	51.555004	269.894220	36.048173							
410.554853	375.476492	5545.042637	3							
340										
4 Aug 2021 10:21:55.707	6771.091647	6771.137074	0							
.00259016	51.554965	273.246734	32.816410							
410.538371	375.461777	5545.023476	3							
350										
5 Aug 2021 01:44:08.656	6771.076826	6771.122337	0							
.00259256	51.554928	276.550939	29.584597							
410.539897	375.430778	5545.005374	3							
360										
5 Aug 2021 17:06:21.390	6771.060319	6771.105994	0							
.00259723	51.554904	279.804591	26.352737							
410.555130	375.382859	5544.985299	3							
370										
6 Aug 2021 08:28:33.901	6771.044191	6771.090113	0							
.00260426	51.554902	283.005151	23.120841							
410.586785	375.319442	5544.965791	3							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
6 Aug 2021 23:50:46.196	6771.028472	6771.074725	.00261361	51.554927	286.149677	19.888921	410.634677	375.240773	5544.946888	0
7 Aug 2021 15:12:58.270	6771.011122	6771.057781	.00262505	51.554980	289.237651	16.656994	410.695134	375.146427	5544.926074	0
8 Aug 2021 06:35:10.118	6770.994624	6771.041768	.00263869	51.555056	292.267410	13.425074	410.771434	375.038103	5544.906405	0
8 Aug 2021 21:57:21.746	6770.977962	6771.025669	.00265436	51.555147	295.237708	10.193174	410.861389	374.915948	5544.886628	0
9 Aug 2021 13:19:33.148	6770.960022	6771.008361	.00267192	51.555237	298.149624	6.961301	410.962934	374.779788	5544.865369	0
10 Aug 2021 04:41:44.323	6770.943178	6770.992227	.00269144	51.555313	301.002396	3.729453	411.078958	374.631495	5544.845549	0
10 Aug 2021 20:03:55.275	6770.925710	6770.975535	.00271270	51.555359	303.795996	0.497624	411.206128	374.470943	5544.825046	0
11 Aug 2021 11:26:05.998	6770.907418	6770.958090	.00273563	51.555363	306.533053	357.265797	411.343932	374.298247	5544.803617	0
12 Aug 2021 02:48:16.493	6770.890185	6770.941773	.00276025	51.555322	309.213108	354.033949	411.494234	374.115311	5544.783573	0
12 Aug 2021 18:10:26.763	6770.872093	6770.924659	.00278633	51.555238	311.837476	350.802058	411.653658	373.921661	5544.762552	0
13 Aug 2021 09:32:36.801	6770.853588	6770.907199	.00281386	51.555123	314.409566	347.570102	411.822600	373.717799	5544.741105	0
14 Aug 2021 00:54:46.612	6770.835983	6770.890702	.00284279	51.554995	316.928999	344.338067				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
29 Aug 2021 09:45:33.099	6770.359852	6770.455030	0							
.00374937	51.554049	6.750418	266.761717							
417.702983	366.933077	5544.185688	3							
740										
30 Aug 2021 01:07:37.021	6770.336046	6770.433274	0							
.00378955	51.554068	8.558096	263.529177							
417.953155	366.639393	5544.158965	3							
750										
30 Aug 2021 16:29:40.675	6770.312742	6770.412028	0							
.00382945	51.554046	10.354447	260.296644							
418.201960	366.348097	5544.132868	3							
760										
31 Aug 2021 07:51:44.053	6770.287767	6770.389119	0							
.00386909	51.553981	12.142123	257.064104							
418.447336	366.056901	5544.104728	3							
770										
31 Aug 2021 23:13:47.147	6770.262639	6770.366061	0							
.00390842	51.553877	13.920944	253.831540							
418.690519	365.767603	5544.076406	3							
780										
1 Sep 2021 14:35:49.955	6770.237542	6770.343035	0							
.00394735	51.553741	15.691241	250.598936							
418.930967	365.481103	5544.048123	3							
790										
2 Sep 2021 05:57:52.466	6770.210606	6770.318170	0							
.00398592	51.553588	17.455455	247.366278							
419.167094	365.195245	5544.017580	3							
800										
2 Sep 2021 21:19:54.673	6770.183870	6770.293501	0							
.00402405	51.553437	19.212702	244.133553							
419.400531	364.912471	5543.987280	3							
810										
3 Sep 2021 12:41:56.574	6770.156783	6770.268474	0							
.00406168	51.553306	20.964070	240.900755							
419.630161	364.632786	5543.956538	3							
820										
4 Sep 2021 04:03:58.157	6770.127907	6770.241652	0							
.00409886	51.553214	22.711419	237.667886							
419.854908	364.354395	5543.923593	3							
830										
4 Sep 2021 19:25:59.415	6770.099567	6770.215353	0							
.00413550	51.553178	24.453552	234.434951							
420.076574	364.080133	5543.891291	3							
840										
5 Sep 2021 10:48:00.347	6770.070414	6770.188227	0							
.00417155	51.553206	26.192369	231.201962							
420.293401	363.809054	5543.857972	3							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
6 Sep 2021 02:10:00.940	6770.039771	6770.159599	.00420707	51.553299	27.928819	227.968938	420.505146	363.540052	5543.822808	0
6 Sep 2021 17:32:01.190	6770.009885	6770.131709	.00424197	51.553449	29.661877	224.735896	420.713382	363.276035	5543.788551	0
7 Sep 2021 08:54:01.096	6769.978807	6770.102605	.00427620	51.553635	31.393942	221.502856	420.915948	363.015262	5543.752803	0
8 Sep 2021 00:16:00.645	6769.946717	6770.072469	.00430984	51.553832	33.124985	218.269830	421.113417	362.757522	5543.715787	0
8 Sep 2021 15:37:59.835	6769.915424	6770.043104	.00434275	51.554010	34.854542	215.036825	421.306716	362.505492	5543.679719	0
9 Sep 2021 06:59:58.663	6769.882750	6770.012329	.00437494	51.554139	36.584972	211.803841	421.493707	362.256950	5543.641918	0
9 Sep 2021 22:21:57.121	6769.849815	6769.981265	.00440644	51.554196	38.315372	208.570866	421.675786	362.012745	5543.603764	0
10 Sep 2021 13:43:55.208	6769.817331	6769.950616	.00443709	51.554172	40.046238	205.337883	421.852466	361.774766	5543.566118	0
11 Sep 2021 05:05:52.921	6769.783495	6769.918579	.00446694	51.554072	41.779305	202.104871	422.022378	361.540780	5543.526768	0
11 Sep 2021 20:27:50.251	6769.749820	6769.886665	.00449598	51.553915	43.513347	198.871811	422.186974	361.312357	5543.487569	0
12 Sep 2021 11:49:47.201	6769.716451	6769.855011	.00452407	51.553734	45.249513	195.638688	422.345323	361.090700	5543.448690	0
13 Sep 2021 03:11:43.767	6769.681904	6769.822136	.00455130	51.553565	46.988876	192.405500				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
090	423.780191	358.800038	68.207827	51.554122	6769.237725	153.605729	5542.923127	4		
21 Sep 2021 10:56:23.916					6769.394534			0		
100	423.838316	358.676752	70.018276	51.553962	6769.237725	150.372242	5542.883112	4		
22 Sep 2021 02:18:15.077					6769.361374			0		
110	423.887526	358.561222	71.837790	51.553779	6769.169405	147.138683	5542.842383	4		
22 Sep 2021 17:40:05.851					6769.327724			0		
120	423.927745	358.453703	73.665728	51.553595	6769.169405	143.905052	5542.801054	4		
23 Sep 2021 09:01:56.241					6769.295104			0		
130	423.960298	358.355909	75.502739	51.553430	6769.136153	140.671356	5542.760989	4		
24 Sep 2021 00:23:46.247					6769.261530			0		
140	423.983038	358.266021	77.349849	51.553301	6769.102032	137.437608	5542.719753	4		
24 Sep 2021 15:45:35.864					6769.227654			0		
150	423.996587	358.184722	79.206455	51.553218	6769.067695	134.203821	5542.678147	4		
25 Sep 2021 07:07:25.095					6769.194740			0		
160	424.002136	358.113344	81.073465	51.553186	6769.034406	130.970010	5542.637721	4		
25 Sep 2021 22:29:13.941					6769.160710			0		
170	423.997321	358.050099	82.951578	51.553203	6769.000090	127.736188	5542.595925	4		
26 Sep 2021 13:51:02.393					6769.126474			0		
180	423.983158	357.995790	84.840408	51.553261	6768.965658	124.502365	5542.553877	4		
27 Sep 2021 05:12:50.455					6769.092933			0		
190	423.960427	357.951440	86.741025	51.553349	6768.932011	121.268546	5542.512682	4		
27 Sep 2021 20:34:38.123					6769.058010			0		
200	423.926717	357.915302	88.653906	51.553451	6768.897075	118.034734	5542.469789	4		

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
6 Oct 2021 04:17:20.134	6768.428761	6768.581365	.00474825	51.553432	114.867748	75.991205	422.583294	358.305436	5541.884388	0
6 Oct 2021 19:39:01.865	6768.390953	6768.542267	.00472816	51.553597	117.009635	72.756771	422.408051	358.402484	5541.836371	0
7 Oct 2021 11:00:43.138	6768.352964	6768.502906	.00470669	51.553799	119.172279	69.522372	422.223133	358.508679	5541.788029	0
8 Oct 2021 02:22:23.957	6768.315833	6768.464320	.00468381	51.554015	121.356621	66.288014	422.029531	358.625110	5541.740641	0
8 Oct 2021 17:44:04.319	6768.277570	6768.424518	.00465949	51.554217	123.563892	63.053691	421.824920	358.750116	5541.691758	0
9 Oct 2021 09:05:44.216	6768.239580	6768.384916	.00463387	51.554382	125.793973	59.819384	421.611732	358.884101	5541.643122	0
10 Oct 2021 00:27:23.653	6768.202289	6768.345938	.00460692	51.554496	128.048319	56.585063	421.390154	359.027722	5541.595252	0
10 Oct 2021 15:49:02.625	6768.163973	6768.305863	.00457864	51.554552	130.328013	53.350701	421.158473	359.179253	5541.546034	0
11 Oct 2021 07:10:41.129	6768.126259	6768.266327	.00454916	51.554558	132.633060	50.116267	420.919257	359.339397	5541.497479	0
11 Oct 2021 22:32:19.170	6768.089219	6768.227402	.00451844	51.554531	134.965416	46.881746	420.672242	359.508562	5541.449675	0
12 Oct 2021 13:53:56.745	6768.051265	6768.187501	.00448652	51.554492	137.325621	43.647131	420.416106	359.684895	5541.400671	0
13 Oct 2021 05:15:33.851	6768.014142	6768.148379	.00445350	51.554462	139.713885	40.412428				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
28 Oct 2021 13:52:09.844	6767.206023	6767.287991	0							
.00348030	51.554892	207.255082	322.770108							
412.703211	365.598772	5540.296009	4							
680										
29 Oct 2021 05:13:35.891	6767.172881	6767.253068	0							
.00344228	51.554875	210.503532	319.534681							
412.410859	365.821277	5540.253122	4							
690										
29 Oct 2021 20:35:01.495	6767.140626	6767.219107	0							
.00340547	51.554820	213.779280	316.299221							
412.127682	366.036532	5540.211417	4							
700										
30 Oct 2021 11:56:26.660	6767.108430	6767.185284	0							
.00337001	51.554730	217.080617	313.063710							
411.853747	366.242821	5540.169882	4							
710										
31 Oct 2021 03:17:51.377	6767.074631	6767.149937	0							
.00333589	51.554613	220.401430	309.828128							
411.587419	366.438455	5540.126475	4							
720										
31 Oct 2021 18:39:15.641	6767.041853	6767.115696	0							
.00330332	51.554485	223.742285	306.592458							
411.332642	366.624749	5540.084426	4							
730										
1 Nov 2021 10:00:39.458	6767.008694	6767.081162	0							
.00327244	51.554367	227.098453	303.356691							
411.089004	366.799319	5540.042017	4							
740										
2 Nov 2021 01:22:02.815	6766.974169	6767.045346	0							
.00324319	51.554277	230.465164	300.120827							
410.855188	366.961505	5539.998036	4							
750										
2 Nov 2021 16:43:25.713	6766.940728	6767.010708	0							
.00321581	51.554236	233.841473	296.884875							
410.635131	367.112286	5539.955500	4							
760										
3 Nov 2021 08:04:48.154	6766.906608	6766.975486	0							
.00319040	51.554254	237.221761	293.648856							
410.427851	367.249121	5539.912247	4							
770										
3 Nov 2021 23:26:10.129	6766.871466	6766.939332	0							
.00316688	51.554333	240.601761	290.412799							
410.232405	367.372259	5539.867850	4							
780										
4 Nov 2021 14:47:31.640	6766.837504	6766.904457	0							
.00314550	51.554462	243.979140	287.176733							
410.052754	367.482159	5539.825023	4							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
5 Nov 2021 06:08:52.688	6766.802511	6766.868648	0.00312627	51.554620	247.348654	283.940690	409.886708	367.576587	5539.781049	4
5 Nov 2021 21:30:13.264	6766.766936	6766.832349	0.00310913	51.554780	250.706014	280.704687	409.734287	367.656411	5539.736475	4
6 Nov 2021 12:51:33.374	6766.732625	6766.797417	0.00309434	51.554910	254.048670	277.468733	409.599194	367.721639	5539.693578	4
7 Nov 2021 04:12:53.019	6766.696927	6766.761193	0.00308177	51.554986	257.371619	274.232821	409.477824	367.770563	5539.649097	4
7 Nov 2021 19:34:12.189	6766.661121	6766.724957	0.00307143	51.554992	260.671435	270.996928	409.371490	367.804423	5539.604599	4
8 Nov 2021 10:55:30.894	6766.626490	6766.689997	0.00306353	51.554928	263.945355	267.761025	409.282970	367.823024	5539.561669	4
9 Nov 2021 02:16:49.130	6766.590347	6766.653618	0.00305786	51.554804	267.189123	264.525082	409.208072	367.825165	5539.516997	4
9 Nov 2021 17:38:06.894	6766.554608	6766.617739	0.00305446	51.554646	270.400586	261.289069	409.149100	367.812377	5539.472938	4
10 Nov 2021 08:59:24.194	6766.519705	6766.582794	0.00305346	51.554481	273.576353	258.052967	409.107268	367.784321	5539.430027	4
11 Nov 2021 00:20:41.028	6766.483448	6766.546584	0.00305462	51.554339	276.714210	254.816770	409.078834	367.740335	5539.385563	4
11 Nov 2021 15:41:57.395	6766.448076	6766.511354	0.00305804	51.554241	279.812360	251.580481	409.066603	367.682104	5539.342300	4
12 Nov 2021 07:03:13.305	6766.413135	6766.476647	0.00306370	51.554201	282.867555	248.344115				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
27 Nov 2021 15:31:27.160	6765.624354	6765.716428	0							
.00368902	51.554222	343.186201	170.662951							
412.538310	362.620546	5538.366191	5							
150										
28 Nov 2021 06:52:32.839	6765.594126	6765.688154	0							
.00372795	51.554240	345.258160	167.425895							
412.773329	362.328978	5538.331473	5							
160										
28 Nov 2021 22:13:38.152	6765.562845	6765.658870	0							
.00376735	51.554191	347.306228	164.188797							
413.010506	362.033233	5538.295516	5							
170										
29 Nov 2021 13:34:43.090	6765.531228	6765.629291	0							
.00380714	51.554077	349.332615	160.951640							
413.249987	361.734595	5538.259197	5							
180										
30 Nov 2021 04:55:47.662	6765.500869	6765.601011	0							
.00384729	51.553912	351.337207	157.714410							
413.493247	361.434775	5538.224473	5							
190										
30 Nov 2021 20:16:51.867	6765.469102	6765.571360	0							
.00388774	51.553721	353.321738	154.477100							
413.737158	361.131562	5538.188065	5							
200										
1 Dec 2021 11:37:55.698	6765.437427	6765.541836	0							
.00392843	51.553535	355.287920	151.239711							
413.982784	360.826889	5538.151813	5							
210										
2 Dec 2021 02:58:59.162	6765.406612	6765.513206	0							
.00396933	51.553386	357.236048	148.002255							
414.230730	360.521682	5538.116659	5							
220										
2 Dec 2021 18:20:02.256	6765.374196	6765.483004	0							
.00401034	51.553304	359.167682	144.764753							
414.477901	360.214107	5538.079575	5							
230										
3 Dec 2021 09:41:04.974	6765.342363	6765.453413	0							
.00405146	51.553303	1.084300	141.527229							
414.726378	359.906448	5538.043241	5							
240										
4 Dec 2021 01:02:07.324	6765.310865	6765.424182	0							
.00409262	51.553385	2.986728	138.289711							
414.975492	359.598872	5538.007350	5							
250										
4 Dec 2021 16:23:09.300	6765.277816	6765.393421	0							
.00413372	51.553537	4.876014	135.052218							
415.222645	359.290197	5537.969579	5							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

260										
5 Dec 2021 07:44:10.898	6765.245727	6765.363639	0							
.00417478	51.553731	6.753485	131.814757							
415.470573	358.982705	5537.933011	5							
270										
5 Dec 2021 23:05:12.125	6765.213332	6765.333567	0							
.00421571	51.553933	8.619996	128.577329							
415.717263	358.675871	5537.896087	5							
280										
6 Dec 2021 14:26:12.973	6765.179860	6765.302427	0							
.00425642	51.554112	10.476147	125.339919							
415.961391	358.369464	5537.857852	5							
290										
7 Dec 2021 05:47:13.442	6765.147503	6765.272416	0							
.00429697	51.554239	12.323295	122.102502							
416.205599	358.065233	5537.821003	5							
300										
7 Dec 2021 21:08:13.538	6765.114551	6765.241816	0							
.00433723	51.554301	14.161864	118.865053							
416.447197	357.762435	5537.783431	5							
310										
8 Dec 2021 12:29:13.252	6765.080949	6765.210566	0							
.00437714	51.554297	15.992215	115.627546							
416.685832	357.461300	5537.745061	5							
320										
9 Dec 2021 03:50:12.589	6765.048457	6765.180432	0							
.00441678	51.554237	17.815998	112.389964							
416.923770	357.163095	5537.708061	5							
330										
9 Dec 2021 19:11:11.551	6765.015230	6765.149558	0							
.00445600	51.554141	19.632999	109.152297							
417.158031	356.867085	5537.670152	5							
340										
10 Dec 2021 10:32:10.133	6764.981734	6765.118409	0							
.00449478	51.554033	21.443906	105.914546							
417.389105	356.573714	5537.631907	5							
350										
11 Dec 2021 01:53:08.340	6764.949309	6765.088329	0							
.00453318	51.553936	23.250499	102.676721							
417.618701	356.283957	5537.594974	5							
360										
11 Dec 2021 17:14:06.176	6764.916077	6765.057429	0							
.00457103	51.553870	25.052003	99.438840							
417.843701	355.997156	5537.557033	5							
370										
12 Dec 2021 08:35:03.636	6764.882842	6765.026512	0							
.00460837	51.553848	26.849790	96.200922							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
27 Dec 2021 16:56:16.289	6764.126990	6764.313922	0							
.00525691	51.554926	70.334675	18.487059							
421.736326	350.617519	5536.644159	5							
620										
28 Dec 2021 08:17:05.011	6764.095011	6764.282895	0							
.00527028	51.554924	72.212345	15.248748							
421.795579	350.496211	5536.606065	5							
630										
28 Dec 2021 23:37:53.376	6764.062659	6764.251407	0							
.00528241	51.554883	74.100603	12.010390							
421.845943	350.382871	5536.567406	5							
640										
29 Dec 2021 14:58:41.387	6764.031451	6764.220971	0							
.00529319	51.554813	75.998184	8.771963							
421.888293	350.279648	5536.530037	5							
650										
30 Dec 2021 06:19:29.041	6763.998594	6764.188784	0							
.00530257	51.554729	77.906492	5.533455							
421.919392	350.184177	5536.490520	5							
660										
30 Dec 2021 21:40:16.328	6763.965912	6764.156680	0							
.00531062	51.554651	79.826305	2.294863							
421.941574	350.097786	5536.451104	5							
670										
31 Dec 2021 13:01:03.253	6763.934017	6764.125259	0							
.00531725	51.554599	81.756564	359.056196							
421.954782	350.021737	5536.412528	5							
680										
1 Jan 2022 04:21:49.810	6763.900431	6764.092045	0							
.00532241	51.554585	83.699019	355.817474							
421.956294	349.953796	5536.371748	5							
690										
1 Jan 2022 19:42:35.993	6763.867555	6764.059439	0							
.00532618	51.554614	85.653367	352.578721							
421.949022	349.895857	5536.331718	5							
700										
2 Jan 2022 11:03:21.806	6763.835009	6764.027057	0							
.00532847	51.554678	87.619378	349.339965							
421.931960	349.848153	5536.291960	5							
710										
3 Jan 2022 02:24:07.242	6763.801035	6763.993141	0							
.00532928	51.554765	89.598635	346.101225							
421.903358	349.808924	5536.250321	5							
720										
3 Jan 2022 17:44:52.298	6763.768180	6763.960242	0							
.00532869	51.554852	91.590334	342.862512							
421.866295	349.780190	5536.209930	5							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

730										
4 Jan 2022 09:05:36.979	6763.735175	6763.927086	0							
.00532660	51.554921	93.595320	339.623827							
421.818814	349.761358	5536.169223	5							
740										
5 Jan 2022 00:26:21.278	6763.701237	6763.892891	0							
.00532305	51.554953	95.614613	336.385157							
421.760417	349.751365	5536.127241	5							
750										
5 Jan 2022 15:47:05.195	6763.668646	6763.859943	0							
.00531810	51.554940	97.647619	333.146481							
421.693807	349.752078	5536.086789	5							
760										
6 Jan 2022 07:07:48.734	6763.635484	6763.826314	0							
.00531162	51.554880	99.695890	329.907777							
421.616216	349.762413	5536.045503	5							
770										
6 Jan 2022 22:28:31.887	6763.601888	6763.792149	0							
.00530371	51.554780	101.759749	326.669021							
421.528370	349.781929	5536.003558	5							
780										
7 Jan 2022 13:49:14.659	6763.569753	6763.759344	0							
.00529439	51.554652	103.839179	323.430194							
421.432296	349.812393	5535.963283	5							
790										
8 Jan 2022 05:09:57.052	6763.536747	6763.725559	0							
.00528351	51.554514	105.935828	320.191287							
421.324776	349.852342	5535.921805	5							
800										
8 Jan 2022 20:30:39.060	6763.503856	6763.691790	0							
.00527122	51.554382	108.049441	316.952294							
421.207682	349.901897	5535.880346	5							
810										
9 Jan 2022 11:51:20.690	6763.472271	6763.659225	0							
.00525746	51.554270	110.180708	313.713221							
421.081899	349.962550	5535.840366	5							
820										
10 Jan 2022 03:12:01.943	6763.439666	6763.625532	0							
.00524215	51.554189	112.330898	310.474079							
420.944500	350.032564	5535.799001	5							
830										
10 Jan 2022 18:32:42.813	6763.407625	6763.592307	0							
.00522545	51.554144	114.499484	307.234883							
420.798112	350.112502	5535.758211	5							
840										
11 Jan 2022 09:53:23.309	6763.376607	6763.560003	0							
.00520724	51.554134	116.687789	303.995650							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
26 Jan 2022 18:07:42.188	6762.649029	6762.779808	0							
.00439752	51.553454	176.632221	226.246220							
414.382237	354.903379	5534.760739	6							
090										
27 Jan 2022 09:28:13.054	6762.617710	6762.745902	0							
.00435380	51.553297	179.500590	223.006330							
414.052575	355.165230	5534.719115	6							
100										
28 Jan 2022 00:48:43.495	6762.585843	6762.711466	0							
.00430997	51.553098	182.403029	219.766379							
413.721516	355.427416	5534.676841	6							
110										
28 Jan 2022 16:09:13.498	6762.553059	6762.676140	0							
.00426615	51.552891	185.336984	216.526350							
413.389717	355.688562	5534.633474	6							
120										
29 Jan 2022 07:29:43.062	6762.520925	6762.641495	0							
.00422241	51.552713	188.302812	213.286235							
413.059120	355.949869	5534.590943	6							
130										
29 Jan 2022 22:50:12.184	6762.487985	6762.606082	0							
.00417891	51.552597	191.301880	210.046039							
412.729435	356.208730	5534.547471	6							
140										
30 Jan 2022 14:10:40.854	6762.454403	6762.570076	0							
.00413579	51.552563	194.331011	206.805776							
412.401649	356.464502	5534.503269	6							
150										
31 Jan 2022 05:31:09.070	6762.421380	6762.534676	0							
.00409310	51.552618	197.391164	203.565464							
412.077421	356.717930	5534.459812	6							
160										
31 Jan 2022 20:51:36.830	6762.387404	6762.498384	0							
.00405107	51.552752	200.482312	200.325128							
411.756732	356.966036	5534.415260	6							
170										
1 Feb 2022 12:12:04.125	6762.353230	6762.461959	0							
.00400978	51.552944	203.600616	197.084784							
411.440956	357.208962	5534.370545	6							
180										
2 Feb 2022 03:32:30.957	6762.319375	6762.425920	0							
.00396931	51.553161	206.747466	193.844446							
411.131095	357.446745	5534.326303	6							
190										
2 Feb 2022 18:52:57.320	6762.284610	6762.389050	0							
.00392991	51.553374	209.920728	190.604117							
410.827613	357.676486	5534.281042	6							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
3 Feb 2022 10:13:23.211	6762.249979	6762.352392	0.00389160	51.553554	213.116458	187.363794	410.531774	357.899010	5534.236042	6
4 Feb 2022 01:33:48.628	6762.215381	6762.315850	0.00385449	51.553681	216.336080	184.123467	410.244124	358.113575	5534.191183	6
4 Feb 2022 16:54:13.568	6762.180136	6762.278754	0.00381884	51.553744	219.575177	180.883121	409.965785	358.317723	5534.145645	6
5 Feb 2022 08:14:38.029	6762.145102	6762.241958	0.00378459	51.553746	222.830394	177.642742	409.697270	358.512646	5534.100475	6
5 Feb 2022 23:35:02.010	6762.109990	6762.205180	0.00375190	51.553695	226.102192	174.402315	409.439314	358.697046	5534.055328	6
6 Feb 2022 14:55:25.509	6762.074421	6762.168049	0.00372101	51.553607	229.385064	171.161833	409.193121	358.868977	5534.009747	6
7 Feb 2022 06:15:48.524	6762.039024	6762.131188	0.00369179	51.553503	232.676390	167.921290	408.958587	359.029788	5533.964497	6
7 Feb 2022 21:36:11.055	6762.003470	6762.094274	0.00366448	51.553403	235.974724	164.680688	408.736818	359.177730	5533.919183	6
8 Feb 2022 12:56:33.100	6761.967597	6762.057152	0.00363920	51.553327	239.274703	161.440033	408.528661	359.311643	5533.873614	6
9 Feb 2022 04:16:54.660	6761.931939	6762.020349	0.00361586	51.553288	242.574113	158.199333	408.333879	359.432820	5533.828436	6
9 Feb 2022 19:37:15.736	6761.896168	6761.983545	0.00359470	51.553296	245.869612	154.958602	408.153826	359.539265	5533.783258	6
10 Feb 2022 10:57:36.326	6761.860117	6761.946574	0.00357574	51.553354	249.156895	151.717851				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
18 Feb 2022 18:21:20.579	6761.394263	6761.478785	0	51.553750	289.778007	109.586341	407.247818	359.435753	5533.163651	6
19 Feb 2022 09:41:34.538	6761.357984	6761.443091	0	51.553618	292.657332	106.344995	407.294504	359.317677	5533.119836	6
20 Feb 2022 01:01:48.025	6761.320718	6761.406495	0	51.553528	295.496016	103.103583	407.352170	359.186821	5533.074915	6
20 Feb 2022 16:22:01.042	6761.284698	6761.371244	0	51.553495	298.291052	99.862128	407.424619	359.043870	5533.031645	6
21 Feb 2022 07:42:13.590	6761.247173	6761.334576	0	51.553523	301.044085	96.620657	407.507253	358.887898	5532.986634	6
21 Feb 2022 23:02:25.659	6761.209114	6761.297454	0	51.553606	303.755527	93.379193	407.600005	358.720903	5532.941067	6
22 Feb 2022 14:22:37.254	6761.172125	6761.261494	0	51.553725	306.423041	90.137751	407.705933	358.543056	5532.896927	6
23 Feb 2022 05:42:48.368	6761.132760	6761.223232	0	51.553857	309.050030	86.896336	407.818881	358.353584	5532.849961	6
23 Feb 2022 21:02:58.990	6761.093617	6761.185269	0	51.553974	311.635769	83.654937	407.941669	358.154869	5532.803363	6
24 Feb 2022 12:23:09.125	6761.054860	6761.147776	0	51.554051	314.179885	80.413534	408.075061	357.946490	5532.757340	6
25 Feb 2022 03:43:18.760	6761.013287	6761.107530	0	51.554074	316.686038	77.172098	408.213073	357.727987	5532.707940	6

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
25 Feb 2022 19:03:27.885	6760.972775	6761.068419	0							
.00376116	51.554039	319.152835	73.930597							
408.360854	357.501984	5532.659932	6							
560										
26 Feb 2022 10:23:36.504	6760.931497	6761.028612	0							
.00379000	51.553954	321.582026	70.689008							
408.515886	357.267339	5532.611071	6							
570										
27 Feb 2022 01:43:44.597	6760.887613	6760.986257	0							
.00381972	51.553838	323.976532	67.447315							
408.674319	357.024196	5532.559082	6							
580										
27 Feb 2022 17:03:52.160	6760.845286	6760.945529	0							
.00385055	51.553715	326.334861	64.205513							
408.841862	356.775196	5532.509089	6							
590										
28 Feb 2022 08:23:59.191	6760.801069	6760.902967	0							
.00388223	51.553610	328.660163	60.963615							
409.013342	356.518592	5532.456846	6							
600										
28 Feb 2022 23:44:05.670	6760.755147	6760.858753	0							
.00391464	51.553541	330.954513	57.721639							
409.188110	356.255396	5532.402576	6							
610										
1 Mar 2022 15:04:11.597	6760.710581	6760.815956	0							
.00394793	51.553519	333.216351	54.479611							
409.370178	355.987735	5532.350045	6							
620										
2 Mar 2022 06:24:16.965	6760.663483	6760.770674	0							
.00398181	51.553544	335.449563	51.237557							
409.553749	355.713599	5532.294464	6							
630										
2 Mar 2022 21:44:21.757	6760.615694	6760.724748	0							
.00401628	51.553610	337.655273	47.995497							
409.740735	355.434760	5532.238092	6							
640										
3 Mar 2022 13:04:25.975	6760.568743	6760.679710	0							
.00405137	51.553703	339.832355	44.753445							
409.932734	355.152687	5532.182812	6							
650										
4 Mar 2022 04:24:29.610	6760.519222	6760.632142	0							
.00408687	51.553806	341.984859	41.511406							
410.124984	354.865299	5532.124425	6							
660										
4 Mar 2022 19:44:32.648	6760.469905	6760.584820	0							
.00412284	51.553902	344.112884	38.269375							
410.320655	354.574985	5532.066341	6							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
670										
5 Mar 2022 11:04:35.093	6760.420779	6760.537729	0							
.00415919	51.553978	346.216113	35.027343							
410.519120	354.282337	5532.008540	6							
680										
6 Mar 2022 02:24:36.934	6760.369455	6760.488474	0							
.00419584	51.554024	348.298476	31.785294							
410.717418	353.985530	5531.948084	6							
690										
6 Mar 2022 17:44:38.164	6760.318959	6760.440085	0							
.00423282	51.554036	350.359057	28.543209							
410.918843	353.687327	5531.888690	6							
700										
7 Mar 2022 09:04:38.787	6760.268143	6760.391405	0							
.00427002	51.554016	352.398643	25.301074							
411.121389	353.387421	5531.828941	6							
710										
8 Mar 2022 00:24:38.792	6760.215630	6760.341059	0							
.00430740	51.553968	354.420681	22.058873							
411.323585	353.084534	5531.767146	6							
720										
8 Mar 2022 15:44:38.176	6760.164325	6760.291952	0							
.00434499	51.553902	356.423550	18.816595							
411.528361	352.781543	5531.706872	6							
730										
9 Mar 2022 07:04:36.945	6760.112348	6760.242197	0							
.00438266	51.553829	358.409204	15.574238							
411.733064	352.477330	5531.645803	6							
740										
9 Mar 2022 22:24:35.088	6760.059334	6760.191430	0							
.00442043	51.553760	0.380298	12.331800							
411.937384	352.171476	5531.583492	6							
750										
10 Mar 2022 13:44:32.609	6760.007612	6760.141977	0							
.00445826	51.553703	2.334783	9.089287							
412.143423	351.866532	5531.522794	6							
760										
11 Mar 2022 05:04:29.511	6759.954926	6760.091578	0							
.00449606	51.553667	4.275700	5.846710							
412.348338	351.560818	5531.460935	6							
770										
11 Mar 2022 20:24:25.786	6759.901693	6760.040650	0							
.00453383	51.553654	6.204449	2.604079							
412.552544	351.254756	5531.398427	6							
780										
12 Mar 2022 11:44:21.439	6759.849878	6759.991155	0							
.00457154	51.553663	8.119435	359.361407							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
4 Apr 2022 11:34:54.807	6757.918895	6758.126539	0.00554302	51.552794	74.549372	242.592217	417.449995	342.529084	5529.049264	7
5 Apr 2022 02:54:27.419	6757.863064	6758.071342	0.00555150	51.552787	76.448547	239.347801	417.451759	342.416925	5528.981526	7
5 Apr 2022 18:13:59.377	6757.806468	6758.015281	0.00555865	51.552733	78.357458	236.103346	417.443757	342.312806	5528.912729	7
6 Apr 2022 09:33:30.675	6757.749778	6757.959026	0.00556446	51.552642	80.275909	232.858834	417.426444	342.217608	5528.843693	7
7 Apr 2022 00:53:01.318	6757.694088	6757.903664	0.00556885	51.552527	82.204722	229.614254	417.400416	342.132913	5528.775754	7
7 Apr 2022 16:12:31.306	6757.637737	6757.847540	0.00557188	51.552403	84.144836	226.369595	417.364475	342.056606	5528.706880	7
8 Apr 2022 07:32:00.636	6757.581576	6757.791498	0.00557349	51.552290	86.096056	223.124853	417.318949	341.990048	5528.638107	7
8 Apr 2022 22:51:29.315	6757.526485	6757.736418	0.00557365	51.552203	88.059278	219.880027	417.264648	341.934188	5528.570514	7
9 Apr 2022 14:10:57.344	6757.470831	6757.680669	0.00557241	51.552155	90.035281	216.635122	417.200219	341.887119	5528.502101	7
10 Apr 2022 05:30:24.723	6757.415655	6757.625285	0.00556968	51.552154	92.023809	213.390146	417.126081	341.850489	5528.434136	7
10 Apr 2022 20:49:51.459	6757.361533	6757.570847	0.00556549	51.552203	94.025944	210.145111	417.043072	341.824622	5528.367332	7
11 Apr 2022 12:09:17.556	6757.306990	6757.515880	0.00555988	51.552296	96.042266	206.900031				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
416.949856	341.807904	5528.299880	7							
260										
12 Apr 2022 03:28:43.015	6757.253222	6757.461575	0							
.00555275	51.552422	98.072504	203.654915							
416.847048	341.802102	5528.233240	7							
270										
12 Apr 2022 18:48:07.844	6757.200485	6757.408193	0							
.00554417	51.552562	100.118041	200.409773							
416.735392	341.806993	5528.167732	7							
280										
13 Apr 2022 10:07:32.048	6757.147392	6757.354347	0							
.00553413	51.552694	102.179102	197.164612							
416.613415	341.821278	5528.101656	7							
290										
14 Apr 2022 01:26:55.628	6757.095367	6757.301458	0							
.00552258	51.552794	104.255666	193.919429							
416.482224	341.846691	5528.036755	7							
300										
14 Apr 2022 16:46:18.597	6757.044322	6757.249445	0							
.00550962	51.552839	106.349355	190.674217							
416.342319	341.882571	5527.972928	7							
310										
15 Apr 2022 08:05:40.950	6756.992079	6757.196124	0							
.00549515	51.552813	108.459858	187.428965							
416.190948	341.927300	5527.907497	7							
320										
15 Apr 2022 23:25:02.688	6756.941183	6757.144045	0							
.00547923	51.552708	110.587738	184.183654							
416.030987	341.983103	5527.843591	7							
330										
16 Apr 2022 14:44:23.820	6756.891097	6757.092679	0							
.00546192	51.552529	112.734686	180.938267							
415.862401	342.048958	5527.780559	7							
340										
17 Apr 2022 06:03:44.347	6756.840493	6757.040691	0							
.00544316	51.552293	114.899988	177.692788							
415.683350	342.124032	5527.716764	7							
350										
17 Apr 2022 21:23:04.275	6756.791526	6756.990242	0							
.00542300	51.552026	117.084901	174.447208							
415.496412	342.210073	5527.654859	7							
360										
18 Apr 2022 12:42:23.613	6756.743030	6756.940172	0							
.00540151	51.551763	119.290657	171.201524							
415.300832	342.305513	5527.593418	7							
370										
19 Apr 2022 04:01:42.360	6756.693982	6756.889454	0							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Coefficient
19 Apr 2022 19:21:00.523	6756.646860	6756.840571	0	51.551384	123.763982	164.709890	414.881990	342.525153	5527.471199	7
20 Apr 2022 10:40:18.110	6756.599580	6756.791445	0	51.551313	126.033902	161.463978	414.659955	342.648936	5527.410917	7
21 Apr 2022 01:59:35.117	6756.552046	6756.741977	0	51.551329	128.325524	158.218033	414.428436	342.781519	5527.350217	7
21 Apr 2022 17:18:51.554	6756.506510	6756.694427	0	51.551415	130.641405	154.972074	414.190253	342.924602	5527.291869	7
22 Apr 2022 08:38:07.426	6756.460057	6756.645882	0	51.551544	132.980719	151.726113	413.942662	343.075103	5527.232301	7
22 Apr 2022 23:57:22.725	6756.413865	6756.597522	0	51.551681	135.343830	148.480148	413.686880	343.234165	5527.172960	7
23 Apr 2022 15:16:37.464	6756.369435	6756.550854	0	51.551793	137.733311	145.234169	413.424866	343.402843	5527.115696	7
24 Apr 2022 06:35:51.641	6756.323602	6756.502720	0	51.551854	140.147422	141.988158	413.153794	343.577646	5527.056632	7
24 Apr 2022 21:55:05.253	6756.278726	6756.455481	0	51.551850	142.587708	138.742093	412.876271	343.760692	5526.998668	7
25 Apr 2022 13:14:18.308	6756.234820	6756.409158	0	51.551782	145.056139	135.495953	412.592686	343.951629	5526.941827	7
26 Apr 2022 04:33:30.801	6756.189587	6756.361460	0	51.551660	147.550590	132.249725	412.301370	344.147550	5526.883300	7

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
26 Apr 2022 19:52:42.732	6756.145682	6756.315044	0.00500672	51.551507	150.073559	129.003400	412.005013	344.351075	5526.826345	7
27 Apr 2022 11:11:54.107	6756.101927	6756.268740	0.00496892	51.551348	152.626084	125.756982	411.703087	344.560394	5526.769530	7
28 Apr 2022 02:31:04.918	6756.057220	6756.221453	0.00493036	51.551206	155.206057	122.510480	411.395026	344.773880	5526.711507	7
28 Apr 2022 17:50:15.167	6756.013878	6756.175499	0.00489102	51.551102	157.816681	119.263910	411.083061	344.993938	5526.655120	7
29 Apr 2022 09:09:24.858	6755.970162	6756.129153	0.00485107	51.551050	160.457815	116.017292	410.766592	345.217714	5526.598252	7
30 Apr 2022 00:28:33.981	6755.925720	6756.082061	0.00481050	51.551054	163.127599	112.770643	410.445162	345.444960	5526.540470	7
30 Apr 2022 15:47:42.540	6755.882620	6756.036299	0.00476937	51.551113	165.829841	109.523982	410.121331	345.677266	5526.484319	7
1 May 2022 07:06:50.536	6755.838769	6755.989783	0.00472786	51.551217	168.562851	106.277322	409.794167	345.911400	5526.427244	7
1 May 2022 22:25:57.958	6755.794128	6755.942471	0.00468588	51.551353	171.325357	103.030668	409.462999	346.147944	5526.369192	7
2 May 2022 13:45:04.810	6755.751074	6755.896755	0.00464366	51.551503	174.121523	99.784020	409.131820	346.387690	5526.313098	7
3 May 2022 05:04:11.091	6755.706795	6755.849826	0.00460124	51.551653	176.947732	96.537376	408.798144	346.627509	5526.255517	7
3 May 2022 20:23:16.790	6755.662233	6755.802626	0.00455862	51.551786	179.804002	93.290722	408.462746	346.868505	5526.197602	7

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

610										
4 May 2022 11:42:21.915	6755.619171	6755.756956	0							
.00451611	51.551891	182.693971	90.044045							
408.129668	347.110244	5526.141566	7							
620										
5 May 2022 03:01:26.461	6755.574490	6755.709693	0							
.00447360	51.551961	185.612255	86.797330							
407.795034	347.350352	5526.083575	7							
630										
5 May 2022 18:20:30.421	6755.530304	6755.662958	0							
.00443126	51.551993	188.560695	83.550559							
407.462024	347.589892	5526.026233	7							
640										
6 May 2022 09:39:33.804	6755.487282	6755.617439	0							
.00438937	51.551990	191.541173	80.303717							
407.133328	347.827550	5525.970382	7							
650										
7 May 2022 00:58:36.605	6755.442687	6755.570387	0							
.00434776	51.551960	194.547561	77.056794							
406.804956	348.061818	5525.912650	7							
660										
7 May 2022 16:17:38.820	6755.399169	6755.524470	0							
.00430673	51.551915	197.583231	73.809781							
406.481683	348.293258	5525.856312	7							
670										
8 May 2022 07:36:40.460	6755.356261	6755.479229	0							
.00426646	51.551868	200.647144	70.562680							
406.164211	348.520247	5525.800802	7							
680										
8 May 2022 22:55:41.517	6755.311981	6755.432673	0							
.00422682	51.551834	203.734178	67.315495							
405.849661	348.741686	5525.743681	7							
690										
9 May 2022 14:14:41.992	6755.269271	6755.387766	0							
.00418817	51.551825	206.847951	64.068237							
405.543512	348.958021	5525.688582	7							
700										
10 May 2022 05:33:41.895	6755.226565	6755.342941	0							
.00415057	51.551853	209.984110	60.820923							
405.244435	349.167447	5525.633583	7							
710										
10 May 2022 20:52:41.220	6755.182952	6755.297284	0							
.00411397	51.551920	213.140037	57.573572							
404.951373	349.369195	5525.577565	7							
720										
11 May 2022 12:11:39.972	6755.141116	6755.253498	0							
.00407875	51.552027	216.317809	54.326203							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
404.669512	349.563485	5525.523842	7							
730										
12 May 2022 03:30:38.158	6755.098776	6755.209296	0							
.00404484	51.552165	219.510745	51.078835							
404.396069	349.748524	5525.469610	7							
740										
12 May 2022 18:49:35.771	6755.055789	6755.164537	0							
.00401230	51.552321	222.718714	47.831479							
404.131311	349.923763	5525.414693	7							
750										
13 May 2022 10:08:32.821	6755.014905	6755.121990	0							
.00398150	51.552477	225.941175	44.584138							
403.880492	350.089487	5525.362490	7							
760										
14 May 2022 01:27:29.314	6754.973047	6755.078563	0							
.00395224	51.552614	229.171051	41.336811							
403.639285	350.243842	5525.309209	7							
770										
14 May 2022 16:46:25.243	6754.930842	6755.034890	0							
.00392467	51.552716	232.409407	38.089480							
403.409199	350.386582	5525.255626	7							
780										
15 May 2022 08:05:20.620	6754.890908	6754.993605	0							
.00389913	51.552770	235.652871	34.842126							
403.195206	350.518005	5525.204973	7							
790										
15 May 2022 23:24:15.448	6754.849156	6754.950603	0							
.00387531	51.552774	238.895783	31.594725							
402.991150	350.636055	5525.152212	7							
800										
16 May 2022 14:43:09.719	6754.807912	6754.908217	0							
.00385347	51.552734	242.139207	28.347251							
402.801022	350.741412	5525.100209	7							
810										
17 May 2022 06:02:03.450	6754.768676	6754.867961	0							
.00383383	51.552664	245.377200	25.099689							
402.628007	350.833914	5525.050818	7							
820										
17 May 2022 21:20:56.638	6754.727028	6754.825393	0							
.00381604	51.552582	248.606524	21.852034							
402.465108	350.911679	5524.998592	7							
830										
18 May 2022 12:39:49.279	6754.686648	6754.784211	0							
.00380046	51.552510	251.827349	18.604287							
402.318510	350.975912	5524.948066	7							
840										
19 May 2022 03:58:41.389	6754.647606	6754.744487	0							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
26 May 2022 19:44:25.172	6754.159399	6754.256871	0.00379884	51.551949	291.519050	336.380721	401.778194	350.461547	5524.301086	7
27 May 2022 11:03:10.370	6754.117454	6754.215688	0.00381368	51.551822	294.342976	333.132372	401.837109	350.320267	5524.250561	7
28 May 2022 02:21:55.042	6754.076919	6754.176021	0.00383049	51.551722	297.127529	329.883947	401.910815	350.167226	5524.201895	7
28 May 2022 17:40:39.182	6754.033834	6754.133895	0.00384900	51.551656	299.875397	326.635461	401.993548	350.000242	5524.150214	8
29 May 2022 08:59:22.783	6753.991826	6754.092952	0.00386944	51.551624	302.585524	323.386928	402.090502	349.821403	5524.099984	8
30 May 2022 00:18:05.857	6753.950263	6754.052545	0.00389152	51.551623	305.256061	320.138366	402.199057	349.632034	5524.050412	8
30 May 2022 15:36:48.395	6753.906481	6754.010010	0.00391515	51.551642	307.890695	316.889789	402.315956	349.430063	5523.998227	8
31 May 2022 06:55:30.394	6753.864256	6753.969127	0.00394047	51.551671	310.487649	313.641206	402.445959	349.218294	5523.948072	8
31 May 2022 22:14:11.863	6753.821500	6753.927795	0.00396715	51.551698	313.046362	310.392623	402.584649	348.996941	5523.897365	8
1 Jun 2022 13:32:52.791	6753.777356	6753.885160	0.00399521	51.551709	315.570786	307.144040	402.731359	348.764960	5523.845059	8
2 Jun 2022 04:51:33.183	6753.734827	6753.844225	0.00402467	51.551693	318.058642	303.895448	402.889220	348.525230	5523.794840	8
2 Jun 2022 20:10:13.043	6753.691418	6753.802485	0.00405526	51.551643	320.511071	300.646839	403.053891	348.277079	5523.743633	8

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

080										
3 Jun 2022 11:28:52.363	6753.647219	6753.760033	0							
.00408703	51.551556	322.931218	297.398197							
403.225868	348.020198	5523.691553	8							
090										
4 Jun 2022 02:47:31.150	6753.604596	6753.719232	0							
.00411992	51.551433	325.316969	294.149506							
403.407007	347.757457	5523.641498	8							
100										
4 Jun 2022 18:06:09.407	6753.560796	6753.677320	0							
.00415373	51.551282	327.671146	290.900748							
403.593268	347.487372	5523.590080	8							
110										
5 Jun 2022 09:24:47.128	6753.516783	6753.635267	0							
.00418852	51.551113	329.995338	287.651909							
403.786026	347.210507	5523.538489	8							
120										
6 Jun 2022 00:43:24.322	6753.474318	6753.594827	0							
.00422418	51.550943	332.288317	284.402976							
403.986240	346.929415	5523.488879	8							
130										
6 Jun 2022 16:02:00.992	6753.430388	6753.552981	0							
.00426057	51.550788	334.553889	281.153945							
404.189933	346.642029	5523.437543	8							
140										
7 Jun 2022 07:20:37.132	6753.386782	6753.511522	0							
.00429773	51.550665	336.792190	277.904817							
404.399282	346.349763	5523.386681	8							
150										
7 Jun 2022 22:39:12.751	6753.344213	6753.471156	0							
.00433552	51.550588	339.003322	274.655600							
404.613974	346.054339	5523.337161	8							
160										
8 Jun 2022 13:57:47.851	6753.300377	6753.429575	0							
.00437386	51.550564	341.190913	271.406313							
404.831130	345.754020	5523.286150	8							
170										
9 Jun 2022 05:16:22.430	6753.257337	6753.388844	0							
.00441278	51.550593	343.354317	268.156973							
405.053046	345.450641	5523.236182	8							
180										
9 Jun 2022 20:34:56.497	6753.214843	6753.348702	0							
.00445209	51.550667	345.494989	264.907608							
405.278203	345.145200	5523.186937	8							
190										
10 Jun 2022 11:53:30.052	6753.171242	6753.307497	0							
.00449178	51.550768	347.615425	261.658239							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
25 Jun 2022 19:16:24.531	6752.116868	6752.314695	0							
.00541273	51.549864	34.590500	183.664050							
410.726157	337.629234	5521.918502	8							
440										
26 Jun 2022 10:34:45.328	6752.067769	6752.267924	0							
.00544451	51.549737	36.471674	180.413687							
410.893690	337.368158	5521.861129	8							
450										
27 Jun 2022 01:53:05.562	6752.018369	6752.220811	0							
.00547554	51.549654	38.351544	177.163256							
411.055861	337.111762	5521.803337	8							
460										
27 Jun 2022 17:11:25.230	6751.968764	6752.173428	0							
.00550553	51.549626	40.231409	173.912767							
411.210739	336.862117	5521.745214	8							
470										
28 Jun 2022 08:29:44.322	6751.917859	6752.124692	0							
.00553464	51.549655	42.112196	170.662232							
411.358258	336.617125	5521.685431	8							
480										
28 Jun 2022 23:48:02.832	6751.866875	6752.075823	0							
.00556289	51.549740	43.993149	167.411663							
411.499859	336.377787	5521.625486	8							
490										
29 Jun 2022 15:06:20.756	6751.815331	6752.026317	0							
.00558997	51.549870	45.875994	164.161069							
411.632948	336.145686	5521.564760	8							
500										
30 Jun 2022 06:24:38.086	6751.762971	6751.975939	0							
.00561619	51.550033	47.760918	160.910456							
411.759289	335.918588	5521.502964	8							
510										
30 Jun 2022 21:42:54.816	6751.710529	6751.925411	0							
.00564139	51.550211	49.647570	157.659826							
411.878659	335.698163	5521.440984	8							
520										
1 Jul 2022 13:01:10.941	6751.657205	6751.873914	0							
.00566534	51.550385	51.537814	154.409177							
411.988597	335.485230	5521.377816	8							
530										
2 Jul 2022 04:19:26.455	6751.603609	6751.822085	0							
.00568842	51.550538	53.431170	151.158502							
412.092278	335.277892	5521.314241	8							
540										
2 Jul 2022 19:37:41.352	6751.549640	6751.769797	0							
.00571029	51.550653	55.327866	147.907790							
412.187341	335.078253	5521.250104	8							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
3 Jul 2022 10:55:55.626	6751.494851	6751.716597	.00573087	51.550721	57.229543	144.657026	412.272803	334.886390	5521.184847	0
4 Jul 2022 02:14:09.272	6751.440137	6751.663403	.00575050	51.550738	59.135332	141.406195	412.351847	334.700960	5521.119599	0
4 Jul 2022 17:32:22.285	6751.384748	6751.609429	.00576873	51.550706	61.045986	138.155283	412.420612	334.524246	5521.053394	0
5 Jul 2022 08:50:34.659	6751.328952	6751.554954	.00578568	51.550638	62.962735	134.904279	412.480272	334.355637	5520.986575	0
6 Jul 2022 00:08:46.392	6751.273294	6751.500535	.00580154	51.550551	64.884621	131.653180	412.532644	334.194425	5520.919824	0
6 Jul 2022 15:26:57.479	6751.216886	6751.445248	.00581585	51.550468	66.812705	128.401987	412.573673	334.042823	5520.852009	0
7 Jul 2022 06:45:07.916	6751.160640	6751.390028	.00582893	51.550412	68.747847	125.150713	412.606439	333.899618	5520.784277	0
7 Jul 2022 22:03:17.703	6751.104238	6751.334556	.00584076	51.550404	70.689228	121.899374	412.630464	333.764648	5520.716236	0
8 Jul 2022 13:21:26.836	6751.047470	6751.278594	.00585099	51.550459	72.637997	118.647995	412.643236	333.639952	5520.647594	0
9 Jul 2022 04:39:35.317	6750.991309	6751.223146	.00586002	51.550580	74.594828	115.396601	412.648475	333.523816	5520.579582	0
9 Jul 2022 19:57:43.146	6750.934683	6751.167122	.00586765	51.550760	76.559134	112.145213	412.643614	333.416629	5520.510865	0
10 Jul 2022 11:15:50.320	6750.878275	6751.111193	.00587373	51.550979	78.532162	108.893845				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

25 Jul 2022 18:27:28.406	6749.555550	6749.765198	0							
.00557315	51.551405	129.703206	30.846529							
409.245623	334.010772	5518.791399	8							
910										
26 Jul 2022 09:45:19.154	6749.496579	6749.703861	0							
.00554164	51.551334	132.048131	27.593823							
408.971311	334.162410	5518.716173	8							
920										
27 Jul 2022 01:03:09.184	6749.439282	6749.644121	0							
.00550891	51.551283	134.416227	24.341034							
408.690311	334.323932	5518.642906	8							
930										
27 Jul 2022 16:20:58.484	6749.378902	6749.581203	0							
.00547471	51.551256	136.806529	21.088176							
408.396170	334.492237	5518.565742	8							
940										
28 Jul 2022 07:38:47.036	6749.318933	6749.518615	0							
.00543917	51.551256	139.220485	17.835259							
408.093402	334.669827	5518.488982	8							
950										
28 Jul 2022 22:56:34.846	6749.259942	6749.456938	0							
.00540249	51.551280	141.659543	14.582296							
407.783823	334.856053	5518.413341	8							
960										
29 Jul 2022 14:14:21.900	6749.197948	6749.392179	0							
.00536446	51.551323	144.122579	11.329300							
407.462007	335.048350	5518.333919	8							
970										
30 Jul 2022 05:32:08.185	6749.137277	6749.328680	0							
.00532529	51.551373	146.611412	8.076276							
407.133836	335.249523	5518.256044	8							
980										
30 Jul 2022 20:49:53.707	6749.076740	6749.265264	0							
.00528511	51.551420	149.126930	4.823227							
406.798886	335.457641	5518.178271	8							
990										
31 Jul 2022 12:07:38.452	6749.013953	6749.199537	0							
.00524378	51.551452	151.668205	1.570150							
406.453855	335.671218	5518.097664	9							
000										
1 Aug 2022 03:25:22.415	6748.953004	6749.135610	0							
.00520155	51.551459	154.237104	358.317034							
406.104572	335.892648	5518.019264	9							
010										
1 Aug 2022 18:43:05.601	6748.891562	6749.071156	0							
.00515850	51.551433	156.833914	355.063867							
405.749238	336.119074	5517.940220	9							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
020										
2 Aug 2022 10:00:47.997	6748.828881	6749.005426	0							
.00511456	51.551372	159.458101	351.810631							
405.386610	336.350242	5517.859610	9							
030										
3 Aug 2022 01:18:29.607	6748.768188	6748.941669	0							
.00507000	51.551280	162.111408	348.557308							
405.021793	336.587546	5517.781421	9							
040										
3 Aug 2022 16:36:10.434	6748.706668	6748.877073	0							
.00502487	51.551167	164.793499	345.303883							
404.652335	336.827810	5517.702202	9							
050										
4 Aug 2022 07:53:50.471	6748.644856	6748.812172	0							
.00497916	51.551047	167.504301	342.050344							
404.278592	337.071752	5517.622611	9							
060										
4 Aug 2022 23:11:29.726	6748.585238	6748.749477	0							
.00493318	51.550937	170.245398	338.796691							
403.905257	337.319697	5517.545725	9							
070										
5 Aug 2022 14:29:08.204	6748.524373	6748.685543	0							
.00488688	51.550854	173.015763	335.542932							
403.528568	337.568517	5517.467319	9							
080										
6 Aug 2022 05:46:45.898	6748.463991	6748.622103	0							
.00484033	51.550810	175.815780	332.289083							
403.150690	337.819516	5517.389520	9							
090										
6 Aug 2022 21:04:22.823	6748.405643	6748.560733	0							
.00479388	51.550809	178.646504	329.035169							
402.775492	338.071975	5517.314261	9							
100										
7 Aug 2022 12:21:58.981	6748.345870	6748.497963	0							
.00474735	51.550846	181.506550	325.781220							
402.398439	338.323487	5517.237284	9							
110										
8 Aug 2022 03:39:34.368	6748.287312	6748.436445	0							
.00470095	51.550907	184.396505	322.527257							
402.023500	338.575390	5517.161843	9							
120										
8 Aug 2022 18:57:09.002	6748.230352	6748.376580	0							
.00465496	51.550969	187.316458	319.273298							
401.652987	338.826173	5517.088429	9							
130										
9 Aug 2022 10:14:42.881	6748.171839	6748.315201	0							
.00460914	51.551009	190.264743	316.019348							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
24 Aug 2022 17:12:35.784	6746.829134	6746.931016	0.00388593	51.549192	265.669937	237.905893	395.012122	342.575910	5515.315808	0
25 Aug 2022 08:29:51.212	6746.768114	6746.869680	0.00387991	51.549136	268.745759	234.650340	394.909937	342.555422	5515.240598	0
25 Aug 2022 23:47:05.848	6746.706232	6746.807591	0.00387600	51.549135	271.795266	231.394701	394.821198	342.519984	5515.164467	0
26 Aug 2022 15:04:19.695	6746.645171	6746.746451	0.00387449	51.549192	274.813574	228.138988	394.749620	342.469281	5515.089498	0
27 Aug 2022 06:21:32.739	6746.581172	6746.682470	0.00387486	51.549303	277.800778	224.883218	394.687902	342.403038	5515.011048	0
27 Aug 2022 21:38:44.966	6746.517005	6746.618432	0.00387735	51.549458	280.756974	221.627404	394.640453	342.322412	5514.932527	0
28 Aug 2022 12:55:56.376	6746.452900	6746.554573	0.00388205	51.549638	283.676324	218.371559	394.608007	342.227139	5514.854226	0
29 Aug 2022 04:13:06.954	6746.386005	6746.488015	0.00388850	51.549822	286.562211	215.115694	394.584744	342.117285	5514.772616	0
29 Aug 2022 19:30:16.686	6746.319359	6746.421815	0.00389702	51.549985	289.413304	211.859808	394.575748	341.993883	5514.691446	0
30 Aug 2022 10:47:25.573	6746.252120	6746.355126	0.00390748	51.550105	292.224421	208.603901	394.579355	341.856897	5514.609677	0
31 Aug 2022 02:04:33.596	6746.182391	6746.286035	0.00391958	51.550164	295.001856	205.347962	394.591657	341.706413	5514.524962	0
31 Aug 2022 17:21:40.746	6746.113152	6746.217539	0.00393363	51.550152	297.741665	202.091974	394.617638	341.543441	5514.440978	0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
490										
1 Sep 2022 08:38:47.021	6746.043000	6746.148223	0							
.00394937	51.550072	300.441533	198.835921							
394.654250	341.368196	5514.355988	9							
500										
1 Sep 2022 23:55:52.404	6745.970644	6746.076788	0							
.00396663	51.549939	303.107983	195.579782							
394.698960	341.180615	5514.268400	9							
510										
2 Sep 2022 15:12:56.888	6745.899025	6746.006189	0							
.00398566	51.549775	305.735701	192.323542							
394.756467	340.981910	5514.181839	9							
520										
3 Sep 2022 06:30:00.471	6745.826248	6745.934515	0							
.00400615	51.549615	308.326027	189.067195							
394.822710	340.772320	5514.093960	9							
530										
3 Sep 2022 21:47:03.141	6745.752265	6745.861718	0							
.00402805	51.549491	310.883276	185.810740							
394.897393	340.552042	5514.004704	9							
540										
4 Sep 2022 13:04:04.896	6745.678783	6745.789512	0							
.00405148	51.549430	313.402469	182.554186							
394.982931	340.322092	5513.916174	9							
550										
5 Sep 2022 04:21:05.731	6745.603774	6745.715851	0							
.00407610	51.549450	315.887964	179.297551							
395.075078	340.082624	5513.825860	9							
560										
5 Sep 2022 19:38:05.635	6745.528151	6745.641656	0							
.00410201	51.549551	318.341010	176.040851							
395.175355	339.833957	5513.734892	9							
570										
6 Sep 2022 10:55:04.612	6745.453307	6745.568320	0							
.00412918	51.549716	320.758353	172.784104							
395.284953	339.577686	5513.644977	9							
580										
7 Sep 2022 02:12:02.655	6745.376625	6745.493208	0							
.00415731	51.549918	323.145641	169.527322							
395.399307	339.313110	5513.552886	9							
590										
7 Sep 2022 17:28:59.757	6745.299928	6745.418158	0							
.00418658	51.550121	325.502011	166.270502							
395.521421	339.040895	5513.460870	9							
600										
8 Sep 2022 08:45:55.922	6745.223997	6745.343941	0							
.00421683	51.550289	327.825941	163.013639							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
23 Sep 2022 15:27:36.919	6743.285241	6743.460036	0							
.00509125	51.550003	17.193859	84.823054							
399.655668	330.990405	5511.060298	9							
850										
24 Sep 2022 06:44:08.761	6743.198546	6743.375900	0							
.00512841	51.549966	19.082213	81.563960							
399.821677	330.656124	5510.957159	9							
860										
24 Sep 2022 22:00:39.567	6743.110888	6743.290792	0							
.00516517	51.549967	20.964969	78.304765							
399.984034	330.323551	5510.852829	9							
870										
25 Sep 2022 13:17:09.320	6743.021150	6743.203597	0							
.00520157	51.550016	22.841928	75.045489							
400.141834	329.991359	5510.745940	9							
880										
26 Sep 2022 04:33:38.015	6742.932581	6743.117557	0							
.00523754	51.550113	24.713226	71.786149							
400.297881	329.663233	5510.640469	9							
890										
26 Sep 2022 19:50:05.651	6742.842333	6743.029819	0							
.00527298	51.550253	26.581256	68.526766							
400.448692	329.336945	5510.532916	9							
900										
27 Sep 2022 11:06:32.210	6742.750795	6742.940771	0							
.00530791	51.550425	28.445279	65.267352							
400.594723	329.012818	5510.423759	9							
910										
28 Sep 2022 02:22:57.692	6742.660247	6742.852687	0							
.00534226	51.550610	30.306403	62.007914							
400.737760	328.693613	5510.315785	9							
920										
28 Sep 2022 17:39:22.090	6742.567702	6742.762572	0							
.00537593	51.550788	32.166191	58.748450							
400.874206	328.376938	5510.205321	9							
930										
29 Sep 2022 08:55:45.391	6742.474678	6742.671946	0							
.00540894	51.550940	34.023939	55.488945							
401.005673	328.064220	5510.094232	9							
940										
30 Sep 2022 00:12:07.594	6742.382100	6742.581725	0							
.00544120	51.551052	35.881156	52.229381							
401.132429	327.757020	5509.983639	9							
950										
30 Sep 2022 15:28:28.692	6742.287718	6742.489653	0							
.00547262	51.551115	37.738401	48.969733							
401.251731	327.453574	5509.870779	9							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
960										
1 Oct 2022 06:44:48.675	6742.193577	6742.397775	0							
.00550324	51.551131	39.595340	45.709974							
401.365835	327.155715	5509.758158	9							
970										
1 Oct 2022 22:01:07.547	6742.099555	6742.305961	0							
.00553295	51.551112	41.453474	42.450086							
401.473809	326.864113	5509.645615	9							
980										
2 Oct 2022 13:17:25.297	6742.003907	6742.212461	0							
.00556171	51.551075	43.312595	39.190058							
401.573667	326.577255	5509.531006	9							
990										
3 Oct 2022 04:33:41.921	6741.908907	6742.119552	0							
.00558955	51.551041	45.172899	35.929893							
401.667967	326.297136	5509.417123	10							
000										
3 Oct 2022 19:49:57.420	6741.813401	6742.026067	0							
.00561634	51.551029	47.035726	32.669605							
401.754609	326.023525	5509.302535	10							
010										
4 Oct 2022 11:06:11.785	6741.717084	6741.931705	0							
.00564214	51.551051	48.900449	29.409215							
401.833632	325.755778	5509.186872	10							
020										
5 Oct 2022 02:22:25.016	6741.621370	6741.837878	0							
.00566693	51.551110	50.768014	26.148750							
401.906406	325.495351	5509.071867	10							
030										
5 Oct 2022 17:38:37.113	6741.525003	6741.743319	0							
.00569058	51.551198	52.639298	22.888234							
401.970779	325.241859	5508.955964	10							
040										
6 Oct 2022 08:54:48.070	6741.428472	6741.648525	0							
.00571322	51.551300	54.513854	19.627683							
402.028013	324.995037	5508.839774	10							
050										
7 Oct 2022 00:10:57.890	6741.332222	6741.553932	0							
.00573473	51.551399	56.393127	16.367103							
402.077915	324.755950	5508.723832	10							
060										
7 Oct 2022 15:27:06.570	6741.235556	6741.458836	0							
.00575503	51.551475	58.277362	13.106489							
402.119138	324.524534	5508.607273	10							
070										
8 Oct 2022 06:43:14.109	6741.138966	6741.363736	0							
.00577425	51.551515	60.166656	9.845827							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Coefficient
080	402.153064	324.300409	5508.490711	10						
8 Oct 2022 21:59:20.509	6741.042759	6741.268927	0							
.00579222	51.551510	62.062207	6.585098							
090	402.178810	324.085044	5508.374506	10						
9 Oct 2022 13:15:25.769	6740.946017	6741.173485	0							
.00580888	51.551461	63.964080	3.324279							
100	402.195184	323.877787	5508.257527	10						
10 Oct 2022 04:31:29.884	6740.849229	6741.077909	0							
.00582438	51.551373	65.872845	0.063351							
110	402.203485	323.678333	5508.140383	10						
10 Oct 2022 19:47:32.857	6740.752794	6740.982578	0							
.00583846	51.551258	67.788988	356.802298							
120	402.202562	323.488595	5508.023541	10						
11 Oct 2022 11:03:34.685	6740.655762	6740.886546	0							
.00585119	51.551130	69.712799	353.541114							
130	402.191730	323.307362	5507.905840	10						
12 Oct 2022 02:19:35.362	6740.558513	6740.790196	0							
.00586262	51.551004	71.645067	350.279797							
140	402.171917	323.134476	5507.787751	10						
12 Oct 2022 17:35:34.889	6740.461654	6740.694118	0							
.00587253	51.550890	73.585615	347.018353							
150	402.142071	322.972165	5507.669996	10						
13 Oct 2022 08:51:33.263	6740.363858	6740.596993	0							
.00588104	51.550797	75.535329	343.756792							
160	402.101723	322.818263	5507.550958	10						
14 Oct 2022 00:07:30.474	6740.265882	6740.499578	0							
.00588816	51.550729	77.494701	340.495126							
170	402.051730	322.673426	5507.431566	10						
14 Oct 2022 15:23:26.523	6740.168098	6740.402228	0							
.00589367	51.550685	79.463486	337.233371							
180	401.990908	322.539548	5507.312255	10						
15 Oct 2022 06:39:21.403	6740.069076	6740.303529	0							
.00589777	51.550660	81.443080	333.971538							
190	401.919315	322.413744	5507.191291	10						
15 Oct 2022 21:55:15.106	6739.970316	6740.204975	0							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
23 Oct 2022 13:04:24.773	6738.732546	6738.960221	0							
.00581247	51.549216	108.350459	291.559432							
399.993238	321.653204	5505.545040	10							
320										
24 Oct 2022 04:20:02.377	6738.624373	6738.850703	0							
.00579533	51.549151	110.530308	288.296021							
399.767538	321.659867	5505.410830	10							
330										
24 Oct 2022 19:35:38.670	6738.515967	6738.740843	0							
.00577673	51.549138	112.727805	285.032490							
399.531752	321.675934	5505.276203	10							
340										
25 Oct 2022 10:51:13.645	6738.407240	6738.630538	0							
.00575647	51.549171	114.944718	281.768864							
399.284254	321.702822	5505.141032	10							
350										
26 Oct 2022 02:06:47.291	6738.297163	6738.518786	0							
.00573489	51.549236	117.180975	278.505167							
399.026467	321.737105	5505.004088	10							
360										
26 Oct 2022 17:22:19.599	6738.187310	6738.407150	0							
.00571183	51.549311	119.436365	275.241415							
398.758778	321.781523	5504.867288	10							
370										
27 Oct 2022 08:37:50.565	6738.076907	6738.294851	0							
.00568719	51.549372	121.712730	271.977620							
398.479794	321.835908	5504.729676	10							
380										
27 Oct 2022 23:53:20.177	6737.965541	6738.181501	0							
.00566129	51.549394	124.009405	268.713781							
398.191307	321.897695	5504.590778	10							
390										
28 Oct 2022 15:08:48.432	6737.854740	6738.068612	0							
.00563391	51.549359	126.326696	265.449886							
397.893269	321.969956	5504.452446	10							
400										
29 Oct 2022 06:24:15.325	6737.743202	6737.954890	0							
.00560511	51.549259	128.666251	262.185913							
397.584849	322.050931	5504.313094	10							
410										
29 Oct 2022 21:39:40.847	6737.631355	6737.840781	0							
.00557513	51.549098	131.027170	258.921831							
397.268134	322.139428	5504.173269	10							
420										
30 Oct 2022 12:55:04.999	6737.520125	6737.727193	0							
.00554371	51.548895	133.410510	255.657611							
396.942206	322.238180	5504.034084	10							

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430										
31 Oct 2022 04:10:27.777	6737.408201	6737.612834	0							
.00551106	51.548677	135.817532	252.393229							
396.607223	322.344445	5503.893955	10							
440										
31 Oct 2022 19:25:49.177	6737.296629	6737.498761	0							
.00547731	51.548479	138.247346	249.128668							
396.265142	322.458379	5503.754178	10							
450										
1 Nov 2022 10:41:09.202	6737.185536	6737.385081	0							
.00544220	51.548328	140.701801	245.863929							
395.914291	322.581870	5503.614883	10							
460										
2 Nov 2022 01:56:27.851	6737.074123	6737.271022	0							
.00540604	51.548247	143.181635	242.599022							
395.555989	322.712054	5503.475125	10							
470										
2 Nov 2022 17:11:45.124	6736.963416	6737.157612	0							
.00536885	51.548243	145.685943	239.333969							
395.191375	322.849848	5503.336164	10							
480										
3 Nov 2022 08:27:01.025	6736.853046	6737.044468	0							
.00533042	51.548311	148.217286	236.068797							
394.818726	322.996210	5503.197530	10							
490										
3 Nov 2022 23:42:15.555	6736.742689	6736.931295	0							
.00529110	51.548431	150.775797	232.803530							
394.440089	323.148501	5503.058862	10							
500										
4 Nov 2022 14:57:28.717	6736.633290	6736.819034	0							
.00525085	51.548577	153.360166	229.538191							
394.056041	323.308026	5502.921312	10							
510										
5 Nov 2022 06:12:40.518	6736.524212	6736.707042	0							
.00520954	51.548719	155.973784	226.272791							
393.665217	323.474866	5502.784092	10							
520										
5 Nov 2022 21:27:50.958	6736.415465	6736.595356	0							
.00516755	51.548832	158.615600	223.007333							
393.270038	323.646674	5502.647249	10							
530										
6 Nov 2022 12:43:00.043	6736.307644	6736.484565	0							
.00512474	51.548896	161.284593	219.741811							
392.870304	323.824825	5502.511504	10							
540										
7 Nov 2022 03:58:07.780	6736.200214	6736.374134	0							
.00508114	51.548900	163.984639	216.476214							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
392.465575	324.008692	5502.376201	10							
550										
7 Nov 2022 19:13:14.168	6736.092959	6736.263869	0							
.00503704	51.548843	166.712962	213.210526							
392.057667	324.196072	5502.241103	10							
560										
8 Nov 2022 10:28:19.214	6735.986739	6736.154626	0							
.00499232	51.548733	169.470009	209.944731							
391.646673	324.388579	5502.107256	10							
570										
9 Nov 2022 01:43:22.923	6735.880804	6736.045661	0							
.00494711	51.548587	172.259151	206.678815							
391.232611	324.584711	5501.973753	10							
580										
9 Nov 2022 16:58:25.293	6735.774619	6735.936455	0							
.00490161	51.548422	175.075871	203.412768							
390.816373	324.782537	5501.839955	10							
590										
10 Nov 2022 08:13:26.329	6735.669788	6735.828609	0							
.00485578	51.548262	177.923283	200.146585							
390.399312	324.983907	5501.707825	10							
600										
10 Nov 2022 23:28:26.034	6735.564437	6735.720259	0							
.00480976	51.548124	180.802767	196.880266							
389.980461	325.186058	5501.575078	10							
610										
11 Nov 2022 14:43:24.402	6735.458887	6735.611738	0							
.00476371	51.548025	183.708739	193.613817							
389.561243	325.388232	5501.442121	10							
620										
12 Nov 2022 05:58:21.440	6735.354855	6735.504764	0							
.00471768	51.547977	186.647229	190.347245							
389.143737	325.591790	5501.311062	10							
630										
12 Nov 2022 21:13:17.148	6735.249567	6735.396571	0							
.00467179	51.547983	189.615896	187.080562							
388.725911	325.793231	5501.178512	10							
640										
13 Nov 2022 12:28:11.517	6735.144244	6735.288388	0							
.00462615	51.548042	192.610439	183.813779							
388.309821	325.992955	5501.045973	10							
650										
14 Nov 2022 03:43:04.551	6735.039968	6735.181302	0							
.00458088	51.548146	195.637935	180.546906							
387.897388	326.191216	5500.914780	10							
660										
14 Nov 2022 18:57:56.246	6734.933874	6735.072457	0							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

22 Nov 2022 09:54:28.685	6733.608444	6733.720379	0							
.00407713	51.548209	237.032544	138.068144							
383.037659	328.129099	5499.125078	10							
790										
23 Nov 2022 01:09:02.052	6733.491084	6733.601462	0							
.00404870	51.548227	240.306213	134.799611							
382.726807	328.202117	5498.979407	10							
800										
23 Nov 2022 16:23:33.925	6733.373421	6733.482379	0							
.00402263	51.548324	243.577742	131.530983							
382.431675	328.259082	5498.833535	10							
810										
24 Nov 2022 07:38:04.299	6733.254999	6733.362645	0							
.00399836	51.548498	246.844421	128.262281							
382.148036	328.303253	5498.686866	10							
820										
24 Nov 2022 22:52:33.156	6733.134051	6733.240508	0							
.00397626	51.548732	250.106800	124.993523							
381.876633	328.330384	5498.537256	10							
830										
25 Nov 2022 14:07:00.486	6733.013844	6733.119251	0							
.00395665	51.549002	253.356035	121.724712							
381.622864	328.341639	5498.388724	10							
840										
26 Nov 2022 05:21:26.286	6732.892138	6732.996602	0							
.00393895	51.549275	256.592777	118.455845							
381.380540	328.338664	5498.238488	10							
850										
26 Nov 2022 20:35:50.538	6732.768781	6732.872438	0							
.00392373	51.549519	259.815333	115.186904							
381.153443	328.317433	5498.086398	10							
860										
27 Nov 2022 11:50:13.239	6732.646491	6732.749472	0							
.00391097	51.549711	263.014511	111.917863							
380.944025	328.280920	5497.935778	10							
870										
28 Nov 2022 03:04:34.384	6732.521696	6732.624107	0							
.00390015	51.549836	266.194868	108.648694							
380.745342	328.228872	5497.782219	10							
880										
28 Nov 2022 18:18:53.957	6732.396963	6732.498945	0							
.00389201	51.549895	269.350482	105.379371							
380.564895	328.158995	5497.628911	10							
890										
29 Nov 2022 09:33:11.964	6732.272582	6732.374252	0							
.00388610	51.549904	272.475579	102.109874							
380.399924	328.074580	5497.476179	10							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
30 Nov 2022 00:47:28.393	6732.145683	6732.247148	0.00388222	51.549885	275.576400	98.840199	380.246190	327.974107	5497.320496	10
30 Nov 2022 16:01:43.239	6732.020326	6732.121728	0.00388103	51.549866	278.642600	95.570351	380.112326	327.857130	5497.166875	10
1 Dec 2022 07:15:56.507	6731.893787	6731.995225	0.00388175	51.549869	281.675158	92.300348	379.990175	327.726274	5497.011930	10
1 Dec 2022 22:30:08.183	6731.765727	6731.867314	0.00388464	51.549914	284.677850	89.030212	379.881222	327.579405	5496.855262	10
2 Dec 2022 13:44:18.274	6731.640167	6731.742036	0.00389007	51.550007	287.639455	85.759970	379.791950	327.418121	5496.701821	10
3 Dec 2022 04:58:26.783	6731.512302	6731.614537	0.00389709	51.550145	290.566800	82.489644	379.711256	327.243818	5496.545661	10
3 Dec 2022 20:12:33.704	6731.385199	6731.487923	0.00390643	51.550319	293.458598	79.219251	379.647033	327.054814	5496.390586	10
4 Dec 2022 11:26:39.054	6731.259774	6731.363101	0.00391793	51.550511	296.307404	75.948798	379.599115	326.853087	5496.237708	10
5 Dec 2022 02:40:42.831	6731.132049	6731.236058	0.00393087	51.550701	299.121990	72.678286	379.558654	326.639463	5496.082110	10
5 Dec 2022 17:54:45.039	6731.007019	6731.111837	0.00394615	51.550873	301.896915	69.407703	379.536844	326.412829	5495.929970	11
6 Dec 2022 09:08:45.696	6730.881827	6730.987543	0.00396308	51.551013	304.629856	66.137037	379.525966	326.175121	5495.777743	11
7 Dec 2022 00:22:44.796	6730.755576	6730.862272	0.00398143	51.551109	307.328797	62.866268				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
020	379.523740	325.926804	5495.624320	11						
7 Dec 2022 15:36:42.355	6730.632645	6730.740443	0							
.00400197	51.551160	309.986128	59.595377							
030	379.539646	325.667240	5495.475113	11						
8 Dec 2022 06:50:38.383	6730.507645	6730.616611	0							
.00402363	51.551168	312.604299	56.324349							
040	379.561135	325.398087	5495.323456	11						
8 Dec 2022 22:04:32.870	6730.383064	6730.493286	0							
.00404680	51.551138	315.189107	53.053168							
050	379.593238	325.119335	5495.172421	11						
9 Dec 2022 13:18:25.839	6730.261289	6730.372873	0							
.00407176	51.551084	317.732321	49.781824							
060	379.640305	324.831440	5495.024952	11						
10 Dec 2022 04:32:17.290	6730.136503	6730.249501	0							
.00409750	51.551015	320.240726	46.510316							
070	379.689665	324.535336	5494.873862	11						
10 Dec 2022 19:46:07.220	6730.013883	6730.128387	0							
.00412475	51.550946	322.716487	43.238643							
080	379.751491	324.231282	5494.725539	11						
11 Dec 2022 10:59:55.648	6729.892001	6730.008091	0							
.00415326	51.550887	325.152690	39.966814							
090	379.822554	323.919627	5494.578218	11						
12 Dec 2022 02:13:42.563	6729.767249	6729.884969	0							
.00418237	51.550847	327.559578	36.694841							
100	379.894812	323.601126	5494.427438	11						
12 Dec 2022 17:27:27.967	6729.645376	6729.764815	0							
.00421283	51.550831	329.934355	33.422733							
110	379.979154	323.276476	5494.280294	11						
13 Dec 2022 08:41:11.870	6729.522131	6729.643343	0							
.00424401	51.550839	332.273671	30.150508							
120	380.067025	322.945660	5494.131537	11						
13 Dec 2022 23:54:54.253	6729.396654	6729.519679	0							
.00427568	51.550869	334.589077	26.878176							
130	380.155932	322.609427	5493.980098	11						
14 Dec 2022 15:08:35.118	6729.273756	6729.398668	0							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
22 Dec 2022 05:50:42.002	6727.666040	6727.815610	0							
.00471504	51.550331	2.486137	344.326833							
381.400526	317.956694	5491.893427	11							
260										
22 Dec 2022 21:04:01.692	6727.518607	6727.670286	0							
.00474821	51.550326	4.508838	341.052569							
381.477682	317.588890	5491.715487	11							
270										
23 Dec 2022 12:17:19.614	6727.374119	6727.527929	0							
.00478150	51.550351	6.513106	337.778192							
381.558576	317.223282	5491.541181	11							
280										
24 Dec 2022 03:30:35.761	6727.224937	6727.380853	0							
.00481417	51.550390	8.507169	334.503726							
381.630621	316.857084	5491.361099	11							
290										
24 Dec 2022 18:43:50.096	6727.074397	6727.232413	0							
.00484656	51.550422	10.493640	331.229176							
381.699316	316.491511	5491.179350	11							
300										
25 Dec 2022 09:57:02.624	6726.926084	6727.086210	0							
.00487885	51.550426	12.464168	327.954538							
381.769676	316.128745	5491.000342	11							
310										
26 Dec 2022 01:10:13.330	6726.772621	6726.934817	0							
.00491034	51.550385	14.429141	324.679799							
381.829376	315.766257	5490.814980	11							
320										
26 Dec 2022 16:23:22.191	6726.620594	6726.784864	0							
.00494169	51.550293	16.385918	321.404932							
381.889558	315.406170	5490.631384	11							
330										
27 Dec 2022 07:36:29.220	6726.469069	6726.635399	0							
.00497264	51.550151	18.329993	318.129910							
381.947507	315.049291	5490.448387	11							
340										
27 Dec 2022 22:49:34.392	6726.312923	6726.481267	0							
.00500271	51.549973	20.271131	314.854709							
381.994879	314.693655	5490.259678	11							
350										
28 Dec 2022 14:02:37.702	6726.160481	6726.330847	0							
.00503273	51.549778	22.203351	311.579305							
382.045633	314.342062	5490.075517	11							
360										
29 Dec 2022 05:15:39.165	6726.006608	6726.178959	0							
.00506201	51.549587	24.126167	308.303695							
382.089921	313.993997	5489.889560	11							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
29 Dec 2022 20:28:38.757	6725.850195	6726.024491	0.00509054	51.549422	26.047162	305.027881	382.126616	313.648365	5489.700446	11
30 Dec 2022 11:41:36.488	6725.697777	6725.874019	0.00511894	51.549296	27.959386	301.751873	382.166331	313.307706	5489.516227	11
31 Dec 2022 02:54:32.368	6725.542700	6725.720829	0.00514634	51.549217	29.865187	298.475696	382.196672	312.970987	5489.328683	11
31 Dec 2022 18:07:26.378	6725.387292	6725.567281	0.00517319	51.549181	31.769854	295.199370	382.222929	312.637632	5489.140702	11
1 Jan 2023 09:20:18.537	6725.235051	6725.416881	0.00519965	51.549182	33.666566	291.922917	382.249663	312.310100	5488.956578	11
2 Jan 2023 00:33:08.848	6725.079980	6725.263584	0.00522500	51.549204	35.559536	288.646358	382.266116	311.987052	5488.768908	11
2 Jan 2023 15:45:57.301	6724.926207	6725.111563	0.00524992	51.549229	37.451993	285.369700	382.280877	311.668248	5488.582802	11
3 Jan 2023 06:58:43.917	6724.774330	6724.961393	0.00527412	51.549241	39.337572	282.092949	382.292614	311.356173	5488.398966	11
3 Jan 2023 22:11:28.693	6724.619925	6724.808627	0.00529721	51.549225	41.222141	278.816102	382.294379	311.048875	5488.211953	11
4 Jan 2023 13:24:11.629	6724.468053	6724.658367	0.00531986	51.549169	43.106447	275.539148	382.295576	310.747158	5488.028010	11
5 Jan 2023 04:36:52.744	6724.316884	6724.508744	0.00534148	51.549070	44.985229	272.262073	382.290548	310.452939	5487.844849	11
5 Jan 2023 19:49:32.033	6724.164111	6724.357450	0.00536209	51.548926	46.865702	268.984862				0

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Coefficient
490	382.277087	310.163814	5487.659645	11						
6 Jan 2023 11:02:09.505	6724.014141	6724.208920	0							
.00538208	51.548745	48.745799	265.707494							
500	382.262178	309.881661	5487.477825	11						
7 Jan 2023 02:14:45.173	6723.863901	6724.060036	0							
.00540086	51.548537	50.622351	262.429956							
510	382.238728	309.607344	5487.295576	11						
7 Jan 2023 17:27:19.033	6723.712852	6723.910283	0							
.00541871	51.548317	52.503057	259.152235							
520	382.208218	309.338347	5487.112262	11						
8 Jan 2023 08:39:51.094	6723.564400	6723.763066	0							
.00543570	51.548100	54.383026	255.874320							
530	382.174439	309.077694	5486.932058	11						
8 Jan 2023 23:52:21.366	6723.414808	6723.614617	0							
.00545138	51.547903	56.262235	252.596210							
540	382.130582	308.824652	5486.750345	11						
9 Jan 2023 15:04:49.841	6723.265070	6723.465960	0							
.00546617	51.547740	58.147242	249.317907							
550	382.080536	308.577385	5486.568381	11						
10 Jan 2023 06:17:16.530	6723.117309	6723.319202	0							
.00547985	51.547622	60.031373	246.039418							
560	382.024999	308.339405	5486.388743	11						
10 Jan 2023 21:29:41.432	6722.967467	6723.170265	0							
.00549219	51.547553	61.918121	242.760755							
570	381.958209	308.108322	5486.206440	11						
11 Jan 2023 12:42:04.539	6722.818354	6723.021994	0							
.00550362	51.547535	63.811073	239.481932							
580	381.885952	307.884035	5486.024953	11						
12 Jan 2023 03:54:25.860	6722.670136	6722.874521	0							
.00551375	51.547558	65.703700	236.202964							
590	381.805784	307.669258	5485.844447	11						
12 Jan 2023 19:06:45.388	6722.519551	6722.724584	0							
.00552255	51.547612	67.602302	232.923867							
600	381.714181	307.460988	5485.660926	11						
13 Jan 2023 10:19:03.114	6722.370391	6722.576001	0							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
21 Jan 2023 00:44:13.354	6720.533460	6720.738088	0.00551790	51.546713	92.854862	190.283068	379.685465	305.516710	5483.229670	11
730										
21 Jan 2023 15:56:07.083	6720.375679	6720.579524	0.00550739	51.546878	94.861334	187.001869	379.455391	305.429656	5483.035620	11
740										
22 Jan 2023 07:07:58.907	6720.218892	6720.421864	0.00549565	51.547105	96.878212	183.720553	379.217934	305.351793	5482.842679	11
750										
22 Jan 2023 22:19:48.815	6720.059236	6720.261210	0.00548221	51.547359	98.904873	180.439132	378.966076	305.282345	5482.646078	11
760										
23 Jan 2023 13:31:36.789	6719.899874	6720.100741	0.00546722	51.547602	100.948979	177.157603	378.703999	305.223483	5482.449703	11
770										
24 Jan 2023 04:43:22.828	6719.740240	6719.939909	0.00545096	51.547800	103.003292	173.875960	378.432999	305.172818	5482.252887	11
780										
24 Jan 2023 19:55:06.912	6719.577939	6719.776285	0.00543293	51.547930	105.071696	170.594187	378.147350	305.131220	5482.052657	11
790										
25 Jan 2023 11:06:49.030	6719.416756	6719.613680	0.00541349	51.547981	107.158735	167.312260	377.853232	305.100127	5481.853676	11
800										
26 Jan 2023 02:18:29.175	6719.253763	6719.449172	0.00539269	51.547958	109.257155	164.030164	377.548057	305.076287	5481.652370	11
810										
26 Jan 2023 17:30:07.326	6719.089218	6719.282990	0.00537012	51.547877	111.374265	160.747881	377.229373	305.062607	5481.449016	11
820										
27 Jan 2023 08:41:43.477	6718.925820	6719.117871	0.00534629	51.547764	113.510131	157.465403	376.903211	305.058531	5481.246967	11
830										
27 Jan 2023 23:53:17.617	6718.759686	6718.949917	0.00532096	51.547643	115.660010	154.182731	376.564155	305.061678	5481.041450	11

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
840										
28 Jan 2023 15:04:49.727	6718.593370	6718.781669	0							
.00529394	51.547542	117.832261	150.899868							
376.213519	305.075819	5480.835578	11							
850										
29 Jan 2023 06:16:19.806	6718.427492	6718.613788	0							
.00526576	51.547479	120.023189	147.616827							
375.855421	305.098154	5480.630155	11							
860										
29 Jan 2023 21:27:47.842	6718.259347	6718.443536	0							
.00523598	51.547465	122.231811	144.333621							
375.484180	305.128892	5480.421835	11							
870										
30 Jan 2023 12:39:13.821	6718.091717	6718.273705	0							
.00520466	51.547504	124.465099	141.050263							
375.103031	305.170378	5480.214032	11							
880										
31 Jan 2023 03:50:37.742	6717.923474	6718.103194	0							
.00517220	51.547591	126.717617	137.766765							
374.713593	305.218796	5480.005401	11							
890										
31 Jan 2023 19:01:59.591	6717.753852	6717.931204	0							
.00513806	51.547715	128.992178	134.483135							
374.311371	305.277037	5479.794962	11							
900										
1 Feb 2023 10:13:19.363	6717.585215	6717.760126	0							
.00510265	51.547859	131.292544	131.199374							
373.901509	305.344742	5479.585641	11							
910										
2 Feb 2023 01:24:37.053	6717.415087	6717.587493	0							
.00506605	51.548007	133.613720	127.915481							
373.482148	305.418838	5479.374422	11							
920										
2 Feb 2023 16:35:52.648	6717.244638	6717.414447	0							
.00502782	51.548141	135.961504	124.631448							
373.051378	305.503516	5479.162699	11							
930										
3 Feb 2023 07:47:06.150	6717.075111	6717.242278	0							
.00498861	51.548246	138.335593	121.347261							
372.614981	305.595574	5478.952051	11							
940										
3 Feb 2023 22:58:17.553	6716.904101	6717.068563	0							
.00494815	51.548311	140.733104	118.062909							
372.168646	305.694480	5478.739516	11							
950										
4 Feb 2023 14:09:26.848	6716.733200	6716.894884	0							
.00490624	51.548330	143.161404	114.778372							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

19 Feb 2023 18:26:20.553	6712.479583	6712.575236	0							
.00377488	51.548599	211.068746	35.892655							
359.777383	309.099088	5473.242999	12							
200										
20 Feb 2023 09:36:34.648	6712.291398	6712.384984	0							
.00373392	51.548732	214.292876	32.603443							
359.311521	309.184446	5473.010312	12							
210										
21 Feb 2023 00:46:46.378	6712.101039	6712.192661	0							
.00369459	51.548887	217.531498	29.314108							
358.854470	309.256851	5472.775095	12							
220										
21 Feb 2023 15:56:55.718	6711.908827	6711.998564	0							
.00365645	51.549043	220.789754	26.024652							
358.403653	309.319475	5472.537711	12							
230										
22 Feb 2023 07:07:02.659	6711.716788	6711.804749	0							
.00362014	51.549181	224.070027	22.735068							
357.965439	309.370059	5472.300677	12							
240										
22 Feb 2023 22:17:07.192	6711.523304	6711.609593	0							
.00358562	51.549286	227.356164	19.445342							
357.537907	309.407279	5472.062005	12							
250										
23 Feb 2023 13:27:09.296	6711.327423	6711.412123	0							
.00355251	51.549349	230.657295	16.155452							
357.117461	309.432786	5471.820508	12							
260										
24 Feb 2023 04:37:08.958	6711.132180	6711.215411	0							
.00352162	51.549371	233.968520	12.865377							
356.712752	309.444070	5471.579940	12							
270										
24 Feb 2023 19:47:06.171	6710.934801	6711.016660	0							
.00349252	51.549357	237.277078	9.575097							
356.318017	309.441303	5471.336883	12							
280										
25 Feb 2023 10:57:00.912	6710.735782	6710.816362	0							
.00346517	51.549317	240.592947	6.284599							
355.933497	309.425227	5471.091937	12							
290										
26 Feb 2023 02:06:53.177	6710.537531	6710.616955	0							
.00344028	51.549264	243.905981	2.993874							
355.566379	309.393530	5470.848084	12							
300										
26 Feb 2023 17:16:42.952	6710.336240	6710.414597	0							
.00341715	51.549211	247.208006	359.702925							
355.208068	309.347125	5470.600626	12							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
27 Feb 2023 08:26:30.220	6710.134968	6710.212364	0.00339619	51.549167	250.507434	356.411753	354.864544	309.286185	5470.353327	12
27 Feb 2023 23:36:14.986	6709.934177	6710.010732	0.00337771	51.549139	253.789995	353.120371	354.538210	309.209253	5470.106763	12
28 Feb 2023 14:45:57.231	6709.729666	6709.805463	0.00336102	51.549128	257.054715	349.828790	354.220257	309.116668	5469.855757	12
1 Mar 2023 05:55:36.941	6709.526565	6709.601724	0.00334688	51.549133	260.304882	346.537021	353.920939	309.008509	5469.606626	12
1 Mar 2023 21:05:14.124	6709.322855	6709.397484	0.00333513	51.549147	263.525818	343.245074	353.637168	308.883800	5469.356887	12
2 Mar 2023 12:14:48.760	6709.116180	6709.190366	0.00332525	51.549160	266.722893	339.952955	353.363070	308.743661	5469.103631	12
3 Mar 2023 03:24:20.843	6708.911515	6708.985381	0.00331813	51.549163	269.892455	336.660664	353.109678	308.587083	5468.852988	12
3 Mar 2023 18:33:50.380	6708.705454	6708.779099	0.00331323	51.549145	273.025526	333.368201	352.869794	308.414403	5468.600763	12
4 Mar 2023 09:43:17.351	6708.497415	6708.570929	0.00331031	51.549096	276.127904	330.075556	352.641398	308.226460	5468.346233	12
5 Mar 2023 00:52:41.759	6708.291565	6708.365072	0.00331021	51.549011	279.192372	326.782715	352.434187	308.021957	5468.094535	12
5 Mar 2023 16:02:03.603	6708.082872	6708.156454	0.00331195	51.548888	282.217796	323.489665	352.236552	307.802356	5467.839465	12
6 Mar 2023 07:11:22.863	6707.873807	6707.947561	0.00331589	51.548727	285.204670	320.196388				0

	Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
430	6 Mar 2023 22:20:39.553	6707.667068	6707.741111	0							
	.00332243	51.548535	288.149445	316.902867							
440	7 Mar 2023 13:29:53.657	6707.455003	6707.529401	0							
	.00333043	51.548323	291.053326	313.609091							
450	8 Mar 2023 04:39:05.155	6707.244741	6707.319602	0							
	.00334083	51.548103	293.912786	310.315045							
460	8 Mar 2023 19:48:14.059	6707.034318	6707.109738	0							
	.00335334	51.547891	296.730280	307.020726							
470	9 Mar 2023 10:57:20.337	6706.818604	6706.894645	0							
	.00336715	51.547700	299.505057	303.726138							
480	10 Mar 2023 02:06:23.977	6706.605946	6706.682720	0							
	.00338338	51.547543	302.234324	300.431285							
490	10 Mar 2023 17:15:24.975	6706.389339	6706.466914	0							
	.00340105	51.547427	304.922769	297.136186							
500	11 Mar 2023 08:24:23.292	6706.169936	6706.248383	0							
	.00342017	51.547352	307.568432	293.840857							
510	11 Mar 2023 23:33:18.930	6705.953193	6706.032614	0							
	.00344140	51.547312	310.171547	290.545319							
520	12 Mar 2023 14:42:11.862	6705.729380	6705.809826	0							
	.00346358	51.547293	312.734681	287.249596							
530	13 Mar 2023 05:51:02.049	6705.505741	6705.587293	0							
	.00348738	51.547274	315.257449	283.953696							
540	13 Mar 2023 20:59:49.487	6705.281382	6705.364121	0							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Co
21 Mar 2023 10:41:30.808	6702.334852	6702.436405	0							
.00389252	51.545495	344.941666	241.085524							
350.388787	298.210023	5460.847312	12							
670										
22 Mar 2023 01:49:39.241	6702.069968	6702.173399	0							
.00392842	51.545585	347.031223	237.786130							
350.365367	297.707432	5460.525886	12							
680										
22 Mar 2023 16:57:44.438	6701.803662	6701.909005	0							
.00396464	51.545666	349.097976	234.486533							
350.342650	297.201361	5460.202772	12							
690										
23 Mar 2023 08:05:46.373	6701.534503	6701.641795	0							
.00400121	51.545713	351.147374	231.186731							
350.319480	296.690110	5459.876220	12							
700										
23 Mar 2023 23:13:45.005	6701.261180	6701.370432	0							
.00403768	51.545709	353.175509	227.886713							
350.291428	296.175436	5459.544602	12							
710										
24 Mar 2023 14:21:40.308	6700.987678	6701.098921	0							
.00407440	51.545645	355.185538	224.586461							
350.264858	295.658985	5459.212810	12							
720										
25 Mar 2023 05:29:32.257	6700.710051	6700.823304	0							
.00411112	51.545525	357.180049	221.285956							
350.234177	295.138431	5458.876006	12							
730										
25 Mar 2023 20:37:20.806	6700.429132	6700.544396	0							
.00414756	51.545357	359.155815	217.985175							
350.198304	294.616489	5458.535187	12							
740										
26 Mar 2023 11:45:05.942	6700.148862	6700.266161	0							
.00418410	51.545160	1.118718	214.684102							
350.163777	294.094546	5458.195199	12							
750										
27 Mar 2023 02:52:47.634	6699.862916	6699.982250	0							
.00422032	51.544954	3.066843	211.382726							
350.121297	293.569203	5457.848281	12							
760										
27 Mar 2023 18:00:25.844	6699.576285	6699.697653	0							
.00425622	51.544758	4.999950	208.081036							
350.076024	293.045281	5457.500533	12							
770										
28 Mar 2023 09:08:00.566	6699.289034	6699.412443	0							
.00429195	51.544592	6.924147	204.779034							
350.028977	292.521909	5457.152043	12							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

780										
29 Mar 2023 00:15:31.759	6698.995792	6699.121227	0							
.00432712	51.544469	8.834669	201.476722							
349.972155	291.996299	5456.796223	12							
790										
29 Mar 2023 15:22:59.399	6698.704350	6698.831805	0							
.00436194	51.544398	10.734850	198.174105							
349.914735	291.474875	5456.442602	12							
800										
30 Mar 2023 06:30:23.479	6698.409762	6698.539228	0							
.00439630	51.544379	12.628285	194.871195							
349.851045	290.953411	5456.085134	12							
810										
30 Mar 2023 21:37:43.957	6698.111169	6698.242623	0							
.00443002	51.544410	14.510288	191.568001							
349.779005	290.432241	5455.722753	12							
820										
31 Mar 2023 12:45:00.821	6697.814594	6697.948019	0							
.00446321	51.544478	16.386226	188.264529							
349.705392	289.916645	5455.362823	12							
830										
1 Apr 2023 03:52:14.051	6697.512742	6697.648114	0							
.00449575	51.544570	18.256324	184.960788							
349.622083	289.400144	5454.996426	12							
840										
1 Apr 2023 18:59:23.608	6697.209314	6697.346600	0							
.00452754	51.544668	20.117760	181.656777							
349.532110	288.887090	5454.628072	12							
850										
2 Apr 2023 10:06:29.487	6696.906758	6697.045930	0							
.00455863	51.544752	21.976642	178.352494							
349.438253	288.379606	5454.260757	12							
860										
3 Apr 2023 01:13:31.658	6696.598207	6696.739229	0							
.00458894	51.544807	23.830038	175.047933							
349.333185	287.871273	5453.886083	12							
870										
3 Apr 2023 16:20:30.085	6696.289867	6696.432695	0							
.00461832	51.544818	25.678654	171.743082							
349.221957	287.369432	5453.511620	12							
880										
4 Apr 2023 07:27:24.765	6695.980657	6696.125253	0							
.00464692	51.544775	27.526489	168.437927							
349.104636	286.871870	5453.136058	12							
890										
4 Apr 2023 22:34:15.660	6695.665867	6695.812183	0							
.00467461	51.544677	29.369909	165.132455							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

20 Apr 2023 00:58:04.994	6687.135299	6687.298946	0							
.00494685	51.544024	74.559020	85.697600							
342.243002	276.080889	5442.357767	13							
140										
20 Apr 2023 16:03:07.878	6686.721503	6686.884576	0							
.00493832	51.544203	76.535721	82.383233							
341.769528	275.725623	5441.851932	13							
150										
21 Apr 2023 07:08:05.729	6686.307726	6686.470140	0							
.00492848	51.544390	78.527062	79.068524							
341.287301	275.378979	5441.346032	13							
160										
21 Apr 2023 22:12:58.513	6685.888620	6686.050282	0							
.00491721	51.544564	80.524627	75.753462							
340.789965	275.036599	5440.833529	13							
170										
22 Apr 2023 13:17:46.142	6685.460739	6685.621481	0							
.00490336	51.544709	82.538255	72.438029							
340.266487	274.702475	5440.310126	13							
180										
23 Apr 2023 04:22:28.575	6685.034772	6685.194532	0							
.00488853	51.544816	84.564042	69.122195							
339.738273	274.376791	5439.789002	13							
190										
23 Apr 2023 19:27:05.770	6684.600467	6684.759114	0							
.00487163	51.544880	86.599002	65.805944							
339.187780	274.056449	5439.257556	13							
200										
24 Apr 2023 10:31:37.641	6684.160580	6684.317975	0							
.00485252	51.544902	88.654296	62.489251							
338.616736	273.745213	5438.719145	13							
210										
25 Apr 2023 01:36:04.169	6683.723204	6683.879287	0							
.00483241	51.544890	90.718137	59.172095							
338.041499	273.443075	5438.183744	13							
220										
25 Apr 2023 16:40:25.299	6683.274653	6683.429264	0							
.00480973	51.544854	92.797846	55.854472							
337.437743	273.146785	5437.634527	13							
230										
26 Apr 2023 07:44:40.960	6682.825931	6682.978977	0							
.00478549	51.544806	94.898251	52.536367							
336.823327	272.860628	5437.085007	13							
240										
26 Apr 2023 22:48:51.148	6682.376931	6682.528332	0							
.00475987	51.544758	97.006869	49.217783							
336.199280	272.583385	5436.535068	13							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count
250										
27 Apr 2023 13:52:55.795	6681.917259	6682.066857								0
.00473160	51.544719	99.139040				45.898726				
335.546718	272.312997	5435.971932								13
260										
28 Apr 2023 04:56:54.869	6681.463163	6681.610913								0
.00470244	51.544699	101.288040				42.579195				
334.893782	272.054044	5435.415564								13
270										
28 Apr 2023 20:00:48.375	6681.004419	6681.150203								0
.00467120	51.544699	103.449929				39.259210				
334.222224	271.804181	5434.853400								13
280										
29 Apr 2023 11:04:36.240	6680.538940	6680.682642								0
.00463789	51.544720	105.641061				35.938778				
333.529906	271.561378	5434.282896								13
290										
30 Apr 2023 02:08:18.475	6680.081792	6680.223387								0
.00460394	51.544758	107.844319				32.617903				
332.841706	271.331068	5433.722547								13
300										
30 Apr 2023 17:11:55.068	6679.614787	6679.754129								0
.00456731	51.544804	110.069454				29.296602				
332.125606	271.108651	5433.150011								13
310										
1 May 2023 08:15:25.963	6679.148812	6679.285853								0
.00452960	51.544849	112.324369				25.974867				
331.403366	270.894341	5432.578696								13
320										
1 May 2023 23:18:51.192	6678.687036	6678.821730								0
.00449081	51.544882	114.590418				22.652699				
330.678062	270.691399	5432.012466								13
330										
2 May 2023 14:22:10.712	6678.214281	6678.346489								0
.00444933	51.544890	116.887550				19.330096				
329.923630	270.495347	5431.432692								13
340										
3 May 2023 05:25:24.505	6677.749951	6677.879686								0
.00440768	51.544867	119.210437				16.007033				
329.176620	270.308752	5430.863233								13
350										
3 May 2023 20:28:32.601	6677.282243	6677.409411								0
.00436400	51.544805	121.548700				12.683505				
328.412595	270.132226	5430.289557								13
360										
4 May 2023 11:31:34.930	6676.806736	6676.931248								0
.00431835	51.544705	123.924513				9.359489				

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19 May 2023 12:14:06.090	6664.405236	6664.459275	0							
.00284756	51.541733	192.845793	289.427693							
305.299692	267.344857	5414.500003	13							
610										
20 May 2023 03:14:29.864	6663.827701	6663.879166	0							
.00277905	51.541731	196.493580	286.090413							
304.261409	267.222924	5413.793060	13							
620										
20 May 2023 18:14:46.521	6663.246060	6663.295030	0							
.00271097	51.541705	200.210940	282.752603							
303.222006	267.094055	5413.081240	13							
630										
21 May 2023 09:14:56.000	6662.658582	6662.705153	0							
.00264385	51.541645	204.043372	279.414250							
302.183339	266.952968	5412.362456	13							
640										
22 May 2023 00:14:58.261	6662.070410	6662.114737	0							
.00257944	51.541545	207.933476	276.075332							
301.162286	266.793187	5411.643045	13							
650										
22 May 2023 15:14:53.277	6661.478198	6661.520363	0							
.00251589	51.541404	211.906245	272.735831							
300.142998	266.623728	5410.918846	13							
660										
23 May 2023 06:14:40.989	6660.880632	6660.920775	0							
.00245490	51.541229	215.980382	269.395728							
299.135692	266.431857	5410.188325	13							
670										
23 May 2023 21:14:21.347	6660.279661	6660.317913	0							
.00239651	51.541029	220.087488	266.055000							
298.142400	266.219426	5409.453850	13							
680										
24 May 2023 12:13:54.333	6659.679447	6659.715923	0							
.00234033	51.540818	224.280691	262.713631							
297.164874	265.992972	5408.720470	13							
690										
25 May 2023 03:13:19.917	6659.072927	6659.107774	0							
.00228757	51.540610	228.530963	259.371615							
296.203960	265.737588	5407.979620	13							
700										
25 May 2023 18:12:38.061	6658.466597	6658.499938	0							
.00223772	51.540418	232.785435	256.028941							
295.262821	265.463056	5407.239186	13							
710										
26 May 2023 09:11:48.761	6657.858864	6657.890832	0							
.00219124	51.540256	237.113505	252.685613							
294.342843	265.164820	5406.497237	13							

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720										
27 May 2023 00:10:51.992	6657.248299	6657.279035	0							
.00214869	51.540130	241.425229	249.341636							
293.446477	264.837592	5405.752046	13							
730										
27 May 2023 15:09:47.740	6656.637762	6656.667379	0							
.00210931	51.540045	245.730576	245.997018							
292.571332	264.489426	5405.007060	13							
740										
28 May 2023 06:08:35.984	6656.023536	6656.052172	0							
.00207420	51.539997	250.059015	242.651772							
291.721170	264.109175	5404.257785	13							
750										
28 May 2023 21:07:16.675	6655.404686	6655.432454	0							
.00204262	51.539980	254.313335	239.305908							
290.889952	263.700957	5403.503049	13							
760										
29 May 2023 12:05:49.788	6654.785612	6654.812618	0							
.00201449	51.539979	258.554316	235.959432							
290.081669	263.269567	5402.748205	13							
770										
30 May 2023 03:04:15.296	6654.162120	6654.188497	0							
.00199096	51.539980	262.748592	232.612354							
289.299715	262.803279	5401.988179	13							
780										
30 May 2023 18:02:33.127	6653.531066	6653.556881	0							
.00196972	51.539962	266.849306	229.264675							
288.525500	262.314261	5401.219061	13							
790										
31 May 2023 09:00:43.237	6652.899601	6652.924966	0							
.00195260	51.539906	270.909637	225.916385							
287.778451	261.797481	5400.449616	13							
800										
31 May 2023 23:58:45.578	6652.260767	6652.285776	0							
.00193892	51.539798	274.875722	222.567479							
287.047011	261.250541	5399.671350	13							
810										
1 Jun 2023 14:56:40.056	6651.613183	6651.637879	0							
.00192686	51.539627	278.739252	219.217936							
286.317643	260.684114	5398.882521	13							
820										
2 Jun 2023 05:54:26.623	6650.966189	6650.990691	0							
.00191936	51.539392	282.537103	215.867734							
285.619347	260.088035	5398.094593	13							
830										
2 Jun 2023 20:52:05.187	6650.303360	6650.327704	0							
.00191326	51.539100	286.211875	212.516853							

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17 Jun 2023 19:10:10.851	6630.966677	6630.996159	0							
.00210857	51.535670	347.180612	131.865531							
266.841058	238.877260	5373.770875	14							
080										
18 Jun 2023 10:03:43.393	6629.921134	6629.950768	0							
.00211416	51.535690	348.819797	128.494106							
265.830556	237.796980	5372.500145	14							
090										
19 Jun 2023 00:57:03.214	6628.875143	6628.904984	0							
.00212172	51.535704	350.401959	125.121643							
264.832670	236.703299	5371.229038	14							
100										
19 Jun 2023 15:50:09.966	6627.772255	6627.802210	0							
.00212591	51.535689	351.908416	121.748128							
263.755350	235.575069	5369.888769	14							
110										
20 Jun 2023 06:43:03.181	6626.649088	6626.679115	0							
.00212868	51.535636	353.387346	118.373491							
262.648193	234.436038	5368.523920	14							
120										
20 Jun 2023 21:35:42.617	6625.506543	6625.536669	0							
.00213236	51.535541	354.786630	114.997693							
261.527669	233.271668	5367.135670	14							
130										
21 Jun 2023 12:28:07.770	6624.299814	6624.329903	0							
.00213125	51.535397	356.134024	111.620701							
260.311007	232.074799	5365.669393	14							
140										
22 Jun 2023 03:20:18.215	6623.087700	6623.117765	0							
.00213057	51.535212	357.453931	108.242435							
259.091811	230.869718	5364.196723	14							
150										
22 Jun 2023 18:12:13.632	6621.827743	6621.857744	0							
.00212854	51.534994	358.678676	104.862880							
257.815648	229.625841	5362.666022	14							
160										
23 Jun 2023 09:03:53.389	6620.511694	6620.541500	0							
.00212178	51.534752	359.889859	101.481981							
256.451863	228.357137	5361.067174	14							
170										
23 Jun 2023 23:55:17.113	6619.190096	6619.219749	0							
.00211654	51.534506	1.045450	98.099680							
255.092615	227.072883	5359.461798	14							
180										
24 Jun 2023 14:46:24.296	6617.790015	6617.819402	0							
.00210725	51.534265	2.121859	94.715978							
253.627808	225.736995	5357.761134	14							

Time (UTCG)	Semi-parameter (km)	Semi-major Axis (km)	Eccentricity	Inclination (deg)	Arg of Perigee (deg)	RAAN (deg)	Height of Apogee (km)	Height of Perigee (km)	Sidereal Period (sec)	Orbit Count

190										
25 Jun 2023 05:37:14.241	6616.353863	6616.382901	0							
.00209498	51.534043	3.213654	91.330801							
252.107071	224.384732	5356.016751	14							
200										
25 Jun 2023 20:27:46.541	6614.886069	6614.914784	0							
.00208351	51.533854	4.205229	87.944127							
250.560004	222.995564	5354.234170	14							
210										
26 Jun 2023 11:18:00.437	6613.325093	6613.353325	0							
.00206615	51.533698	5.173872	84.555938							
248.880531	221.552119	5352.338472	14							
220										
27 Jun 2023 02:07:55.234	6611.742298	6611.770038	0							
.00204831	51.533579	6.143594	81.166152							
247.176005	220.090070	5350.416501	14							
230										
27 Jun 2023 16:57:30.352	6610.085459	6610.112669	0							
.00202890	51.533490	6.990161	77.774762							
245.386929	218.564410	5348.404848	14							
240										
28 Jun 2023 07:46:44.777	6608.335554	6608.362080	0							
.00200350	51.533418	7.884075	74.381697							
243.464962	216.985198	5346.280322	14							
250										
28 Jun 2023 22:35:37.738	6606.550995	6606.576872	0							
.00197911	51.533353	8.707453	70.986864							
241.514996	215.364748	5344.114071	14							
260										
29 Jun 2023 13:24:08.283	6604.644096	6604.669210	0							
.00194999	51.533271	9.442450	67.590226							
239.411265	213.653154	5341.799553	14							
270										
30 Jun 2023 04:12:15.153	6602.651681	6602.675941	0							
.00191683	51.533157	10.257997	64.191637							
237.195159	211.882723	5339.381527	14							
280										
30 Jun 2023 18:59:57.352	6600.579938	6600.603368	0							
.00188406	51.532999	10.905424	60.790995							
234.902274	210.030462	5336.867685	14							
290										
1 Jul 2023 09:47:13.353	6598.335490	6598.357921	0							
.00184375	51.532782	11.559390	57.388191							
232.386613	208.055229	5334.144608	14							
300										
2 Jul 2023 00:34:01.550	6595.998283	6596.019706	0							
.00180216	51.532508	12.228849	53.983017							

