

**Supplementary Online Material for “Earth-based Stellar Occultation Predictions for Jupiter, Saturn,
Uranus, Neptune, Titan, and Triton: 2023–2050”**

RICHARD G. FRENCH¹ AND DAMYA SOUAMI²

¹*Department of Astronomy, Wellesley College, Wellesley MA 02481*

²*LESIA/ Observatoire de Paris, Meudon, France*

1. URANUS PREDICTION TABLES

Table 1. Geocentric Uranus Occultation Predictions 2023–2050 for $K \leq 15$ (part 1 of 7)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U23001	2023-02-20 10:07:36.48	02 50 26.86647 +16 00 19.69250	9.5	8.8	0.158	162.01	14.68	19.915	34.1	14.591	16.821	16.131	100.9	73.8
PgtRgt	33482813421031424	02 50 26.86985 +16 00 19.54226			2.282	-93.42	56.61	17.420	-32.4	0.080	16.485	0	16.1	72.0
U23002	2023-02-25 12:50:24.34	02 50 58.90753 +16 02 51.33387	4.2	3.2	2.577	162.21	17.16	19.998		13.120	14.729	14.179	55.3	68.8
XRgt	33481713909396224	02 50 58.96217 +16 02 48.87993			37.381	-93.33	56.74	13.809		0.151	14.563	0	16.1	1.2
U23003	2023-02-25 15:38:50.67	02 50 59.69317 +16 02 55.23489	5.8	4.5	2.831	162.21	17.22	20.000		13.972	15.529	14.995	13.1	68.7
XRgt	33481713909395712	02 50 59.75317 +16 02 52.53958			41.060	-93.33	56.74	12.130		0.100	15.366	0	16.1	2.2
U23004	2023-02-25 23:08:17.76	02 51 01.83139 +16 03 04.36304	19.9	15.1	2.107	162.22	17.36	20.005		14.528	17.709	16.732	260.5	68.4
XRgt	33481743973922304	02 51 01.87602 +16 03 02.35676			30.569	-93.32	56.75	16.434		0.106	17.556	0	16.1	6.0
U23005	2023-02-27 09:16:55.23	02 51 11.72488 +16 03 50.34008	31.8	24.2	2.399	162.27	18.03	20.028		14.481	18.319	17.125	106.9	67.0
XRgt	33482091866588672	02 51 11.77557 +16 03 48.05534			34.842	-93.30	56.79	15.535		0.110	18.206	0	16.2	23.8
U23006	2023-07-02 20:07:33.51	03 16 28.85353 +17 49 26.94488	13.1	10.7	0.877	344.99	25.92	20.295	18.9	14.452	17.326	16.454	187.0	48.9
PgtRgt	55715174757678592	03 16 28.83764 +17 49 27.79157			12.903	-88.60	62.87	27.937	-27.3	0.099	17.607	0	17.9	139.8
U23007	2023-07-05 06:12:26.07	03 16 53.31537 +17 51 03.10932	10.0	9.2	1.704	165.04	25.04	20.264	12.4	13.895	16.799	15.912	33.5	51.1
PgtRgt	55705214728775296	03 16 53.34617 +17 51 01.46355			25.037	-88.51	62.96	24.268	2.3	0.137	17.043	0	17.9	103.8
U23008	2023-07-09 20:27:10.83	03 17 37.60990 +17 53 50.49298	8.0	6.8	0.585	165.12	23.31	20.202	27.9	14.882	16.525	16.004	175.4	55.3
PgtRgt	55709299242451072	03 17 37.62042 +17 53 49.92754			8.572	-88.35	63.14	25.557	-22.2	0.064	16.691	0	18.0	37.5
U23009	2023-07-18 15:02:46.06	03 18 53.38166 +17 58 33.30830	16.8	14.8	2.356	345.27	19.70	20.074		14.144	17.951	16.772	248.2	63.4
XRgt	56039019587188096	03 18 53.33969 +17 58 35.58691			34.301	-88.08	63.43	16.055		0.138	17.935	0	18.1	72.9
U23010*	2023-09-17 08:49:04.37	03 21 05.03263 +18 06 23.36557	2.6	2.1	1.559	344.91	-9.14	19.089	-20.2	11.884	13.280	12.779	282.3	121.3
PgtRgt	56055718419988224	03 21 05.00417 +18 06 24.87090			21.585	-87.60	63.95	9.155	6.7	0.237	12.430	0	18.2	146.8
U23011	2023-09-26 12:11:25.83	03 20 22.03071 +18 03 38.94823	2.8	2.4	1.561	345.04	-12.96	18.964	-20.4	13.015	14.512	14.003	222.5	130.4
PgtRgt	56066301219417472	03 20 22.00245 +18 03 40.45585			21.463	-87.77	63.78	12.984	7.1	0.137	14.041	0	18.1	90.3
U23012	2023-10-06 10:14:23.37	03 19 19.27373 +17 59 38.03142	23.3	20.9	3.528	345.06	-16.60	18.846		14.651	18.491	17.254	241.7	140.4
XRgt	56044375415107200	03 19 19.20999 +17 59 41.43986			48.218	-88.00	63.54	5.329		0.063	18.289	0	18.1	49.0
U23013	2023-10-23 05:34:54.16	03 17 01.32621 +17 50 55.15036	5.7	5.0	0.496	345.01	-21.20	18.701	-28.1	13.105	15.882	15.057	294.5	157.6
PgtRgt	55704527534006528	03 17 01.31723 +17 50 55.62937			6.726	-88.50	62.99	23.389	23.6	0.167	15.945	0	17.9	98.0
U23014	2023-10-24 14:18:54.24	03 16 48.71940 +17 50 10.75650	7.0	6.3	3.178	165.01	-21.46	18.692		14.744	16.365	15.830	162.1	159.0
XRgt	55705176073818496	03 16 48.77697 +17 50 07.68667			43.084	-88.54	62.94	12.604		0.063	16.442	0	17.9	78.4
U23015	2023-10-29 03:25:28.25	03 16 05.84584 +17 47 26.85056	6.0	5.1	3.370	164.98	-22.23	18.668		12.474	16.027	14.899	320.8	163.8
XRgt	55714835455470848	03 16 05.90696 +17 47 23.59572			45.626	-88.70	62.78	10.826		0.288	16.141	0	17.9	12.5
U23016	2023-10-31 05:57:17.94	03 15 45.52050 +17 46 08.08736	2.6	2.1	2.546	164.97	-22.53	18.659		12.541	14.329	13.738	280.7	165.9
XRgt	55692192387889280	03 15 45.56671 +17 46 05.62871			34.450	-88.77	62.70	18.445		0.174	14.458	0	17.9	17.2
U23017	2023-12-05 23:57:16.58	03 09 54.06829 +17 23 23.12847	3.0	2.5	3.763	344.81	-20.98	18.709		13.221	14.585	14.117	334.0	156.6
XRt	58619023621632640	03 09 53.99940 +17 23 26.76037			51.067	-89.95	61.30	0.255		0.130	14.637	0	17.5	121.6
U23018	2023-12-08 00:42:57.14	03 09 35.83986 +17 22 19.72533	11.6	9.6	3.423	164.81	-20.53	18.724		14.967	17.198	16.415	320.5	154.4
XRgt	58621703681230208	03 09 35.90252 +17 22 16.42165			46.488	-90.01	61.23	9.551		0.069	17.226	0	17.5	146.1
U24001	2024-02-23 10:03:41.04	03 06 48.56316 +17 12 46.88733	26.4	20.9	1.320	343.24	14.00	19.835	12.8	14.900	18.145	17.149	103.3	75.1
PgtRgt	34585619288713856	03 06 48.53661 +17 12 48.15122			18.989	-90.49	60.56	14.764	-25.5	0.084	17.757	0	17.3	92.9
U24002	2024-03-05 11:09:31.48	03 08 02.10372 +17 18 02.14502	3.7	3.3	0.936	163.62	19.25	20.012	28.9	12.789	14.868	14.205	76.3	64.3
PgtRgt	34607957413769216	03 08 02.12214 +17 18 01.24747			13.578	-90.25	60.86	21.056	-19.6	0.203	14.826	0	17.4	131.6
U24003	2024-03-14 06:20:07.50	03 09 16.35646 +17 23 09.13280	7.1	6.4	2.023	343.85	23.09	20.142		14.255	15.796	15.243	140.3	55.9
PRgt	34603456288192896	03 09 16.31715 +17 23 11.07580			29.551	-90.00	61.15	21.286		0.091	15.952	0	17.5	3.8
U24004	2024-07-22 10:21:58.20	03 35 53.33387 +19 03 04.23266	4.2	3.6	3.497	166.57	19.61	20.012		12.453	14.726	13.994	318.2	63.5
XRt	57157463432146176	03 35 53.39116 +19 03 00.83121			50.757	-83.76	67.38	0.022		0.232	14.705	0	19.1	102.9
U24005	2024-07-23 09:10:09.55	03 36 00.89187 +19 03 28.26049	9.2	7.7	1.992	166.58	19.20	19.997		14.734	16.548	15.937	335.2	64.4
PtRgt	57157635230835712	03 36 00.92447 +19 03 26.32281			28.892	-83.72	67.41	17.001		0.071	16.504	0	19.1	89.1
U24006	2024-07-29 15:10:02.43	03 36 46.61141 +19 05 59.83192	11.8	8.5	0.409	346.68	16.44	19.900	19.4	13.432	16.806	15.737	239.3	70.2
PgtRgt	57147018071663488	03 36 46.60477 +19 06 00.22960			5.898	-83.51	67.58	17.534	-23.2	0.190	16.593	0	19.2	4.0

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U24007	2024-08-08 07:38:15.58	03 37 43.38038 +19 09 05.85967	32.4	22.7	3.566	346.85	11.89	19.741		14.357	18.363	17.053	342.9	79.3
XRt	57151274382159360	03 37 43.32314 +19 09 09.33258			51.063	-83.24	67.80	0.085			17.798	0	19.2	122.1
U24008	2024-10-14 10:22:17.90	03 35 43.68397 +19 02 09.23941	6.6	5.6	0.059	346.49	-18.06	18.741	-22.4	14.185	16.323	15.657	235.3	145.0
PgtRgt	57157360352933248	03 35 43.68300 +19 02 09.29663			0.800	-83.82	67.34	19.418	21.9	0.091	16.213	0	19.1	77.8
U24009	2024-10-19 05:14:20.37	03 35 04.55210 +18 59 53.07708	13.2	11.1	2.655	346.46	-19.42	18.697		13.789	17.385	16.248	307.4	149.9
XRt	56783904356567808	03 35 04.50827 +18 59 55.65849			36.006	-84.00	67.19	14.820		0.150	17.353	0	19.1	6.8
U24010	2024-10-20 21:42:15.79	03 34 50.00770 +18 59 07.88543	7.8	6.4	1.728	166.45	-19.87	18.683	-1.7	14.719	16.524	15.939	58.7	151.7
PgtRgt	56783698198142336	03 34 50.03625 +18 59 06.20531			23.418	-84.06	67.14	18.996	15.7	0.066	16.517	0	19.1	19.7
U24011	2024-10-28 21:11:05.42	03 33 37.40000 +18 54 59.50812	6.0	4.7	2.215	166.39	-21.64	18.628		14.431	15.859	15.332	58.3	159.9
PRgt	56824070890660864	03 33 37.43674 +18 54 57.35550			29.923	-84.39	66.86	18.919		0.070	15.945	0	19.0	120.4
U24012*	2024-11-12 18:00:22.24	03 31 09.65187 +18 46 26.75515	13.0	10.8	0.301	346.27	-23.34	18.575	-24.3	11.168	12.755	12.212	90.7	175.4
PgtRgt	56716009513720320	03 31 09.64686 +18 46 27.04743			4.052	-85.04	66.29	25.195	21.7	0.346	12.923	0	18.9	48.3
U24013*	2024-11-15 09:59:14.47	03 30 42.24199 +18 44 55.86497	10.5	8.5	3.868	166.25	-23.41	18.573		13.069	15.633	14.816	208.2	178.2
XRt	56716387470845824	03 30 42.30671 +18 44 52.10826			52.096	-85.16	66.19	66.19		0.171	15.804	0	18.8	9.2
U24014	2024-11-18 02:35:01.78	03 30 14.68903 +18 43 14.07972	3.4	2.9	1.890	346.23	-23.42	18.572	-8.8	13.119	14.752	14.196	316.5	178.9
PgtRgt	57465086170391808	03 30 14.65735 +18 43 15.91584			25.465	-85.28	66.08	21.953	-6.1	0.242	14.924	0	18.8	31.5
U24015	2024-11-22 11:08:27.46	03 29 30.00150 +18 40 41.09676	10.0	8.9	0.894	166.19	-23.29	18.577	-17.0	14.683	16.878	16.181	183.7	174.4
PgtRgt	57461203519965056	03 29 30.01651 +18 40 40.22883			12.042	-85.46	65.91	24.589	24.7	0.077	17.044	0	18.8	88.9
U24016	2024-11-28 12:00:25.15	03 28 29.02067 +18 37 06.01933	17.9	14.6	0.789	346.15	-22.80	18.593	-25.1	13.995	17.920	16.655	164.5	168.0
PgtRgt	57449486849121280	03 28 29.00739 +18 37 06.78514			10.636	-85.72	65.67	24.270	18.3		18.062	0	18.7	160.8
U24017	2024-11-29 04:31:30.99	03 28 22.09865 +18 36 45.84792	17.7	12.2	3.182	166.15	-22.72	18.595		14.406	17.367	16.405	276.0	167.3
XRt	57448078099849984	03 28 22.15224 +18 36 42.75832			42.917	-85.75	65.65	13.065		0.099	17.505	0	18.7	168.8
U24018	2024-12-16 17:53:07.64	03 25 40.14044 +18 27 12.69149	3.6	3.0	0.593	346.10	-19.12	18.707	-26.0	11.083	14.258	13.217	57.6	148.8
PgtRgt	55991534429751552	03 25 40.13043 +18 27 13.26718			8.047	-86.40	65.02	20.665	20.8		14.210	0	18.5	49.3
U24019	2024-12-22 12:05:54.93	03 24 54.46649 +18 24 34.08718	17.7	15.8	1.459	166.12	-17.37	18.763	-9.4	14.760	17.997	16.943	138.6	142.8
PgtRgt	55984696840044288	03 24 54.49108 +18 24 32.67057			19.857	-86.58	64.84	17.534	21.4		17.844	0	18.5	122.6
U25001*	2025-02-23 17:05:43.79	03 23 19.93112 +18 20 03.78280	48.9	42.6	1.582	344.50	12.44	19.723	4.1	14.811	18.146	17.086	0.9	78.2
PgtRgt	55969166240040832	03 23 19.90144 +18 20 05.30730			22.630	-86.90	64.47	12.213	-18.6	0.089	17.631	0	18.4	133.6
U25002	2025-03-14 20:16:13.96	03 25 32.53871 +18 28 33.11572	16.0	13.7	2.377	345.13	21.43	20.026		14.974	17.462	16.696	295.0	59.6
XRt	55991805011194496	03 25 32.49582 +18 28 35.41323			34.526	-86.36	64.99	17.254		0.074	17.537	0	18.6	126.6
U25003	2025-03-16 06:42:33.27	03 25 45.14420 +18 29 20.38726	35.5	29.7	2.661	345.16	22.04	20.047		14.426	18.538	17.216	137.0	58.2
XRt	55991770651464192	03 25 45.09631 +18 29 22.95916			38.684	-86.31	65.04	15.720			18.644	0	18.6	143.6
U25004	2025-07-07 02:43:45.89	03 49 57.45904 +19 52 00.83945	7.0	3.9	3.319	167.63	27.29	20.223		13.909	15.541	14.949	91.6	45.3
XRt	51112795179561600	03 49 57.50943 +19 51 57.59727			48.684	-79.21	70.54	7.377		0.096	15.878	0	19.9	174.5
U25005	2025-07-13 10:01:47.38	03 51 04.98531 +19 55 28.76603	8.0	4.7	3.343	167.74	25.08	20.144		13.368	15.774	15.008	336.2	51.0
XRt	51116918348254208	03 51 05.03565 +19 55 25.49916			48.842	-78.81	70.79	6.883		0.150	16.020	0	20.0	97.9
U25006	2025-07-13 20:55:09.68	03 51 09.63628 +19 55 42.84467	24.6	13.8	3.178	167.75	24.91	20.138		13.856	17.219	16.182	172.4	51.4
XRt	51116883988514304	03 51 09.68411 +19 55 39.73862			46.422	-78.78	70.81	10.940		0.150	17.457	0	20.0	91.9
U25007	2025-07-17 09:21:32.05	03 51 44.72897 +19 57 25.76273	23.9	16.1	0.995	347.81	23.59	20.090	10.3	14.662	18.049	16.995	342.5	54.6
PgtRgt	51128222702163968	03 51 44.71407 +19 57 26.73527			14.498	-78.57	70.93	23.726	-19.5	0.100	18.228	0	20.0	43.8
U25008	2025-08-18 23:10:18.18	03 55 29.06222 +20 08 35.50214	11.1	7.9	2.437	348.26	8.98	19.577		14.960	16.864	16.214	104.1	84.9
XRt	51314521203330432	03 55 29.02701 +20 08 37.88845			34.607	-77.17	71.75	6.862		0.062	15.994	0	20.2	31.5
U25009	2025-09-24 05:51:52.93	03 55 29.06224 +20 08 35.50156	10.9	7.7	1.069	168.09	-8.63	18.985	-9.4	14.960	16.864	16.214	328.0	120.1
PgtRgt	51314521203330432	03 55 29.07790 +20 08 34.45525			14.723	-77.17	71.75	8.650	18.7	0.060	15.951	0	20.2	146.9
U25010	2025-10-27 19:27:55.36	03 51 44.72903 +19 57 25.76442	22.8	15.3	1.337	167.93	-20.49	18.602	-7.2	14.662	18.049	16.995	89.9	154.2
PgtRgt	51128222702163968	03 51 44.74887 +19 57 24.45661			18.043	-78.57	70.93	20.080	18.4	0.092	18.075	0	20.0	136.8
U25011	2025-11-07 23:26:36.68	03 49 57.45904 +19 52 00.83939	6.7	3.7	1.464	167.82	-22.52	18.538	-5.7	13.909	15.541	14.949	18.8	165.8
PgtRgt	51112795179561600	03 49 57.48094 +19 51 59.40847			19.682	-79.21	70.54	21.845	17.8	0.088	15.670	0	19.9	20.9
U25012	2025-11-12 08:15:26.15	03 49 13.14861 +19 49 44.48039	10.0	8.6	0.393	167.77	-23.02	18.522	-16.7	14.375	16.576	15.857	242.1	170.4
PgtRgt	51158493631604224	03 49 13.15451 +19 49 44.09611			5.282	-79.47	70.38	24.107	20.1	0.082	16.729	0	19.9	81.8

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U25013*	2025-11-27 20:52:24.13	03 46 31.78089 +19 41 25.47052	21.5	15.6	1.439	347.62	-23.24	18.516	-18.5	12.495	14.843	14.070	36.9	173.3
PgtRgt	51050947649474304	03 46 31.75904 +19 41 26.87632			19.328	-80.38	69.78	22.735	6.7	0.197	15.006	0	19.8	88.4
U25014	2025-11-30 11:35:46.56	03 46 04.89536 +19 40 00.72681	16.9	12.4	2.690	347.59	-23.03	18.522		14.481	17.400	16.501	173.4	170.5
XRgt	51049981280722048	03 46 04.85443 +19 40 03.35438			36.142	-80.52	69.68	17.229		0.091	17.553	0	19.7	53.0
U25015	2025-12-04 16:46:22.27	03 45 22.11691 +19 37 50.23727	39.7		0.081	347.55	-22.56	18.537	-20.1	14.737	18.615	17.381	91.4	166.1
PgtRgt	63053487160344320	03 45 22.11567 +19 37 50.31634			1.089	-80.76	69.52	23.878	19.4		18.746	0	19.7	11.3
U25016	2025-12-05 18:08:55.63	03 45 11.60884 +19 37 13.94333	15.5	10.6	3.517	347.55	-22.42	18.541		14.351	17.251	16.358	69.6	165.0
XRgt	63053796397985920	03 45 11.55515 +19 37 17.37786			47.299	-80.81	69.48	8.913		0.093	17.375	0	19.7	26.7
U25017	2025-12-06 21:23:37.14	03 45 00.32730 +19 36 40.41113	11.2	7.7	1.873	347.54	-22.25	18.547	-10.4	14.516	16.695	16.010	19.8	163.8
PgtRgt	63052563743457408	03 45 00.29869 +19 36 42.23981			25.192	-80.87	69.44	20.503	-4.5	0.077	16.811	0	19.7	43.6
U25018	2025-12-10 17:40:59.68	03 44 22.83091 +19 34 48.22807	32.8	21.1	3.071	167.51	-21.60	18.567		14.657	18.495	17.355	71.5	159.7
XRgt	57051047025880960	03 44 22.87791 +19 34 45.23010			41.350	-81.07	69.30	13.204			18.579	0	19.7	97.0
U25019	2025-12-27 14:13:19.24	03 41 57.14838 +19 27 08.39604	27.0	20.9	0.468	167.49	-17.12	18.707	-18.0	14.152	18.166	16.915	106.2	142.0
PgtRgt	57080665119958528	03 41 57.15554 +19 27 07.93944			6.346	-81.82	68.75	18.091	22.0		17.998	0	19.5	54.6
U26001*	2026-01-10 15:09:31.26	03 40 27.83450 +19 22 29.39851	56.5	49.1	0.524	167.67	-11.73	18.876	-17.9	13.425	17.468	16.116	78.0	127.3
PgtRgt	57075545518885888	03 40 27.84241 +19 22 28.88623			7.179	-82.27	68.41	12.412	22.5	0.204	16.889	0	19.5	142.2
U26002	2026-02-23 00:00:12.37	03 40 02.96765 +19 21 56.37443	16.1	12.4	0.078	165.76	9.85	19.572	21.3	14.872	17.440	16.711	262.4	83.2
PgtRgt	57087056031232384	03 40 02.96900 +19 21 56.29876			1.108	-82.36	68.32	10.533	-20.5	0.072	16.672	0	19.5	14.1
U26003	2026-03-09 21:55:45.97	03 41 26.89019 +19 26 51.35607	20.3	16.1	1.747	166.36	17.18	19.818	11.2	13.493	17.579	16.386	279.2	68.6
PgtRgt	57079977925186304	03 41 26.91933 +19 26 49.65802			25.116	-81.92	68.63	15.902	4.3		17.414	0	19.5	172.5
U26004	2026-04-03 06:56:18.18	03 45 11.52118 +19 39 24.64811	17.7	11.8	2.973	166.93	27.27	20.164		13.806	17.088	16.085	121.0	45.3
XRgt	63054213010969600	03 45 11.56877 +19 39 21.75182			43.481	-80.72	69.47	14.846		0.172	17.425	0	19.7	148.2
U26005	2026-07-12 04:22:17.42	04 07 35.82519 +20 46 04.97409	10.6	7.6	2.392	169.13	27.18	20.153		13.693	16.022	15.268	66.6	45.6
XRgt	52213749915993856	04 07 35.85734 +20 46 02.62491			34.964	-71.64	74.32	20.364		0.128	16.355	0	20.8	15.1
U26006	2026-07-15 07:53:38.36	04 08 10.57494 +20 47 36.84727	24.8	17.6	1.002	169.19	26.08	20.114	16.2	13.146	17.515	16.168	10.8	48.5
PgtRgt	52027107816351488	04 08 10.58834 +20 47 35.86287			14.620	-71.34	74.44	25.706	-6.9		17.803	0	20.9	61.4
U26007	2026-07-19 11:18:08.68	04 08 54.18159 +20 49 31.75345	8.5	5.9	0.416	349.26	24.56	20.060	11.6	12.501	15.790	14.796	315.8	52.3
PgtRgt	52030543790169472	04 08 54.17606 +20 49 32.16199			6.050	-70.97	74.59	25.079	-15.5	0.288	16.013	0	20.9	118.9
U26008	2026-07-21 02:13:50.22	04 09 10.56856 +20 50 14.59242	3.3	2.2	1.090	349.28	23.94	20.038	5.9	10.802	12.629	12.010	90.4	53.8
PgtRgt	52029680500892288	04 09 10.55413 +20 50 15.66340			15.839	-70.83	74.65	23.377	-15.8	0.473	12.824	0	20.9	139.3
U26009	2026-07-22 23:36:01.31	04 09 29.12968 +20 51 05.22238	7.5	5.0	0.346	169.31	23.20	20.012	15.1	12.704	15.473	14.625	128.0	55.5
PgtRgt	52019823551785856	04 09 29.13425 +20 51 04.88284			5.015	-70.67	74.71	23.736	-11.9	0.230	15.634	0	20.9	161.8
U26010	2026-07-23 16:43:41.47	04 09 36.00838 +20 51 22.70891	9.7	6.3	0.343	349.32	22.92	20.001	11.9	13.868	16.001	15.289	230.4	56.1
PgtRgt	52019651753091840	04 09 36.00385 +20 51 23.04565			4.971	-70.61	74.73	23.449	-15.1	0.116	16.148	0	20.9	169.6
U26011	2026-08-05 14:47:26.90	04 11 25.83494 +20 56 07.84392	5.0	3.8	2.999	349.49	17.47	19.808		11.097	14.690	13.579	247.2	68.1
XRgt	51999894903606656	04 11 25.79590 +20 56 10.79277			43.086	-69.62	75.11	9.546		0.587	14.544	0	21.0	28.6
U26012	2026-08-26 04:39:11.03	04 13 16.56270 +21 00 55.83084	11.8	9.0	0.418	349.63	7.68	19.467	10.6	13.979	16.461	15.656	19.5	87.4
PgtRgt	52362012186180096	04 13 16.55733 +21 00 56.24203			5.902	-68.59	75.48	7.845	-14.4	0.115	15.421	0	21.1	115.6
U26013	2026-09-26 04:09:14.45	04 13 16.56274 +21 00 55.83012	11.6	8.8	3.000	349.87	-7.42	18.959		13.979	16.461	15.656	356.4	117.5
XRgt	52362012186180096	04 13 16.52506 +21 00 58.78311			41.247	-68.59	75.48	4.498		0.112	15.385	0	21.1	69.1
U26014	2026-10-02 03:41:58.97	04 12 53.29800 +21 00 01.54741	27.4	21.6	1.032	169.81	-10.09	18.871	-6.4	14.748	18.114	17.096	357.2	123.5
PgtRgt	52362523286618240	04 12 53.31104 +21 00 00.53204			14.120	-68.81	75.41	9.953	15.2	0.089	17.371	0	21.1	15.7
U26015	2026-10-16 13:29:35.22	04 11 29.46194 +20 56 25.11539	19.5	14.9	2.895	349.69	-15.83	18.686		13.494	17.423	16.203	195.8	138.0
XRgt	51999924967265792	04 11 29.42494 +20 56 27.96401			39.239	-69.58	75.12	10.247		0.194	17.169	0	21.0	154.5
U26016	2026-10-30 03:55:35.11	04 09 39.44350 +20 51 42.64710	27.0	18.0	2.819	349.54	-19.96	18.553		14.210	18.033	16.868	325.4	152.0
XRgt	52019750536727552	04 09 39.40697 +20 51 45.41950			37.937	-70.56	74.75	13.616		0.122	18.031	0	20.9	26.7
U26017	2026-10-31 04:26:11.93	04 09 30.15338 +20 51 22.37799	16.6	11.0	0.908	169.53	-20.21	18.545	-8.3	14.946	17.144	16.492	316.7	153.1
PgtRgt	52019819256201600	04 09 30.16515 +20 51 21.48525			12.211	-70.64	74.71	20.163	16.0	0.066	17.155	0	20.9	41.3
U26018	2026-10-31 07:30:04.64	04 09 29.01642 +20 51 17.31173	21.2	14.1	1.177	349.52	-20.24	18.544	-15.8	14.682	17.663	16.763	270.6	153.2
PgtRgt	52019887975678208	04 09 29.00116 +20 51 18.46863			15.824	-70.65	74.71	19.772	5.9	0.091	17.676	0	20.9	43.1

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U26019*	2026-11-04 06:41:52.36	04 08 51.99315 +20 49 39.95441	13.7	10.0	2.314	349.48	-21.15	18.516		11.725	14.329	13.524	278.6	157.3
XRgt	52030165833048064	04 08 51.96300 +20 49 42.22967			31.078	-70.97	74.58	17.146		0.315	14.390	0	20.9	97.9
U26020	2026-11-07 06:14:50.91	04 08 23.05305 +20 48 30.35988	15.9	10.8	3.508	169.44	-21.74	18.498		14.449	17.096	16.300	282.3	160.4
XRgt	52027348334514304	04 08 23.09890 +20 48 26.91141			47.062	-71.22	74.48	8.709		0.093	17.186	0	20.9	136.7
U26021*	2026-11-11 10:13:10.75	04 07 41.52363 +20 46 38.52460	23.2	18.0	0.552	169.39	-22.42	18.477	-11.3	12.971	16.787	15.541	218.4	164.8
PgtRgt	52026111383950336	04 07 41.53088 +20 46 37.98165			7.402	-71.57	74.34	22.840	16.0	0.253	16.911	0	20.8	170.0
U26022	2026-11-18 08:15:21.44	04 06 30.12964 +20 43 29.95349	7.1	5.3	0.364	169.30	-23.16	18.453	-12.7	12.801	15.532	14.703	240.8	172.0
PgtRgt	52121700178108288	04 06 30.13445 +20 43 29.59590			4.870	-72.16	74.09	23.768	15.9	0.195	15.692	0	20.8	88.4
U26023*	2026-11-18 14:56:43.48	04 06 27.22198 +20 43 21.26724	96.6	69.7	0.599	349.30	-23.18	18.452	-16.4	14.295	18.676	17.043	140.2	172.3
PgtRgt	52121700178528128	04 06 27.21405 +20 43 21.85563			8.014	-72.18	74.08	23.600	11.3	0.115	18.836	0	20.8	84.9
U26024*	2026-11-18 17:06:21.58	04 06 26.31259 +20 43 16.21222	19.6	13.8	3.197	349.30	-23.19	18.452		14.212	15.386	14.951	107.7	172.4
XRgt	52121734537849216	04 06 26.27027 +20 43 19.35364			42.785	-72.19	74.08	12.702		0.073	15.547	0	20.8	83.7
U26025*	2026-11-26 12:34:51.82	04 05 03.75798 +20 39 39.75754	29.2	15.3	0.265	169.20	-23.44	18.444	-13.6	12.221	14.560	13.762	167.5	179.4
PgtRgt	52127094657066752	04 05 03.76153 +20 39 39.49676			3.551	-72.85	73.79	24.141	15.9	0.232	14.732	0	20.7	27.7
U26026	2026-12-04 17:26:50.51	04 03 37.32259 +20 35 50.96148	38.8	20.2	4.021	169.10	-23.07	18.456		14.810	18.584	17.379	86.0	170.7
XRt	52147087726499712	04 03 37.37674 +20 35 47.01281			53.827	-73.52	73.49				18.739	0	20.7	140.7
U26027	2026-12-09 09:30:50.83	04 02 49.28674 +20 33 36.25924	15.4	7.3	0.431	349.05	-22.55	18.472	-16.9	13.198	16.078	15.180	200.2	165.8
PgtRgt	52148775651908096	04 02 49.28092 +20 33 36.68200			5.769	-73.88	73.32	23.193	13.2	0.171	16.209	0	20.6	161.3
U26028	2026-12-23 15:32:45.09	04 00 33.06176 +20 27 25.73583	6.9	4.5	1.177	168.94	-19.65	18.562	-7.6	13.047	15.639	14.824	95.2	150.8
PgtRgt	51404509358551808	04 00 33.07783 +20 27 24.58047			15.848	-74.88	72.83	19.373	17.5		15.619	0	20.5	23.7
U27001	2027-01-02 18:32:56.67	03 59 10.83550 +20 23 42.22232	7.0	5.0	3.773	168.93	-16.54	18.660		14.146	15.954	15.351	39.8	140.1
XRt	51377674402813568	03 59 10.88703 +20 23 38.51919			51.066	-75.45	72.54	0.113		0.085	15.747	0	20.5	163.6
U27002	2027-01-19 02:19:01.49	03 57 34.14698 +20 19 10.77995	12.9	7.7	3.285	349.18	-9.92	18.867		14.681	16.648	16.014	266.8	123.1
XRgt	51296997736818816	03 57 34.10312 +20 19 14.00649			44.950	-76.11	72.19	4.915		0.070	15.887	0	20.4	10.2
U27003	2027-01-21 10:28:42.51	03 57 24.43809 +20 18 46.64687	6.0	3.8	1.437	349.27	-8.86	18.900	-16.5	12.423	14.563	13.865	142.0	120.7
PgtRgt	51296310542057088	03 57 24.41906 +20 18 48.05904			19.703	-76.17	72.15	8.521	4.7	0.206	13.679	0	20.4	44.1
U27004	2027-03-12 17:10:39.12	03 58 42.15401 +20 23 19.85569	10.4	7.7	2.195	347.89	16.41	19.725		14.544	16.628	15.944	352.3	70.2
XRgt	51389391073609728	03 58 42.12127 +20 23 22.00160			31.398	-75.60	72.43	13.429		0.084	16.413	0	20.5	19.0
U27005	2027-03-26 22:48:26.49	04 00 39.02279 +20 29 08.85663	13.7	9.2	0.053	348.23	22.74	19.941	15.7	13.200	18.837	15.711	254.3	56.5
PgtRgt	51405024754623616	04 00 39.02202 +20 29 08.90865			0.769	-74.76	72.85	23.589	-16.2	0.212	16.976	0	20.6	174.8
U27006	2027-03-30 01:32:17.68	04 01 09.27745 +20 30 37.79970	9.7	6.5	0.565	168.30	24.00	19.984	17.6	13.780	16.212	15.426	210.4	53.6
PgtRgt	50656154256949632	04 01 09.28561 +20 30 37.24623			8.192	-74.53	72.95	24.559	-12.3	0.127	16.410	0	20.6	143.2
U27007	2027-04-03 13:24:57.73	04 01 55.71748 +20 32 49.96881	10.4	6.3	1.767	348.39	25.74	20.044		14.423	16.217	15.618	28.0	49.3
PtRgt	50658559438703360	04 01 55.69217 +20 32 51.69932			25.682	-74.19	73.12	23.024		0.082	16.491	0	20.6	89.8
U27008	2027-07-17 06:04:39.85	04 25 32.48707 +21 33 30.12291	6.0	4.8	3.447	350.72	27.03	20.081		12.554	14.976	14.168	40.8	46.0
XRgt	145308093769495296	04 25 32.44722 +21 33 33.52512			50.208	-60.20	77.83	2.191		0.234	15.303	0	21.6	149.2
U27009* ^a	2027-08-01 16:27:23.82	04 28 10.12697 +21 39 27.69900	67.1	40.0	0.559	350.95	21.19	19.872	6.2	14.338	17.603	16.248	230.5	60.1
PgRg	145393095466116992	04 28 10.12067 +21 39 28.25121			8.059	-58.07	78.30	21.187	-11.3	0.088	17.665	0	21.7	49.6
U27010 ^d	2027-08-01 16:37:56.51	04 28 10.19949 +21 39 27.26524	91.8	80.8	1.146	350.95	21.19	19.872	1.8	14.338	17.828	227.9	21.7	49.8
PgRg	145393099761036416	04 28 10.18656 +21 39 28.39747			16.523	-58.07	78.30	20.281	-12.2	0.088	17.891	0	21.7	49.8
U27011	2027-08-08 05:26:30.63	04 29 05.28429 +21 41 27.17831	16.5	11.5	2.961	351.03	18.37	19.772		14.915	16.833	16.137	29.6	66.1
XRgt	144665601023366656	04 29 05.25115 +21 41 30.10345			42.467	-57.29	78.47	10.312		0.068	16.741	0	21.8	143.9
U27012	2027-08-14 04:12:55.52	04 29 48.60903 +21 43 07.38969	14.2	10.3	2.073	171.07	15.69	19.678		14.010	16.722	15.864	42.3	71.7
PtRgt	144663711237441792	04 29 48.63214 +21 43 05.34158			29.589	-56.67	78.59	12.939		0.117	16.458	0	21.8	142.3
U27013	2027-08-15 03:21:02.06	04 29 55.00287 +21 43 21.96256	13.4	9.6	2.642	171.07	15.24	19.662		13.717	16.575	15.643	54.3	72.6
XRgt	144669414954006912	04 29 55.03229 +21 43 19.35278			37.673	-56.57	78.61	10.408		0.138	16.280	0	21.8	131.0
U27014	2027-08-23 09:47:28.64	04 30 42.41146 +21 45 05.60632	6.8	4.7	2.751	171.10	11.34	19.526		12.401	15.091	14.246	309.8	80.3
XRgt	144658763435090048	04 30 42.44200 +21 45 02.88807			38.963	-55.87	78.75	7.336		0.259	14.474	0	21.8	30.9
U27015	2027-08-26 19:06:42.33	04 30 57.84119 +21 45 39.81783	51.5	37.3	3.308	171.10	9.69	19.468		14.924	18.841	17.724	166.7	83.5
XRgt	144655975998312704	04 30 57.87794 +21 45 36.54958			46.710	-55.64	78.79	3.745		0.082	18.054	0	21.8	15.8

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U27016	2027-10-01 20:08:22.37	04 31 09.30882 +21 46 09.63664	11.0	7.7	0.756	351.69	-7.94	18.875	-11.1	13.149	16.296	15.365	115.8	118.6
PgtRgt	145031360436889088	04 31 09.30098 +21 46 10.38475			10.350	-55.46	78.82	7.886	4.6	0.184	15.292	0	21.8	141.3
U27017	2027-10-02 06:58:04.48	04 31 07.69005 +21 46 05.56190	10.5	7.2	1.529	351.68	-8.14	18.868	-11.4	13.707	16.325	15.485	312.9	119.0
PgtRgt	145031356140040576	04 31 07.67418 +21 46 07.07442			20.918	-55.48	78.82	7.511	-1.6	0.134	15.350	0	21.8	147.4
U27018	2027-10-10 06:13:36.95	04 30 32.12253 +21 44 57.81032	4.2	2.9	3.706	171.56	-11.62	18.755		11.774	13.830	13.119	316.0	127.0
XRgt	144659450629862272	04 30 32.16158 +21 44 54.14491			50.404	-56.01	78.72	1.294		0.293	13.240	0	21.8	113.0
U27019	2027-10-15 04:20:20.49	04 30 04.07059 +21 43 59.11193	13.6	10.0	3.290	171.49	-13.60	18.690		14.306	16.800	16.031	339.4	132.0
XRgt	144669483673478144	04 30 04.10555 +21 43 55.85823			44.596	-56.42	78.64	6.704		0.094	16.381	0	21.8	52.8
U27020	2027-10-15 09:37:55.97	04 30 02.71928 +21 43 55.32391	10.3	8.0	2.332	171.48	-13.69	18.687		13.354	16.187	15.314	259.7	132.2
XRgt	144669380594264064	04 30 02.74408 +21 43 53.01729			31.611	-56.44	78.63	10.802		0.159	15.775	0	21.8	50.0
U27021	2027-10-25 11:47:23.78	04 28 51.54871 +21 41 21.43167	9.9	6.8	1.625	351.34	-17.32	18.571	-11.4	12.904	16.292	15.282	217.1	142.5
PgtRgt	144666185138539904	04 28 51.53116 +21 41 23.03784			21.883	-57.46	78.42	15.820	-2.1	0.220	16.136	0	21.8	89.0
U27022	2027-11-04 09:28:48.28	04 27 26.53741 +21 38 25.09491	18.8	14.1	3.893	171.21	-20.17	18.481		14.901	17.494	16.684	241.7	152.8
XRt	145389217112762112	04 27 26.58009 +21 38 21.24773			52.179	-58.64	78.17			0.070	17.503	0	21.7	138.2
U27023	2027-11-08 02:34:56.44	04 26 51.60871 +21 37 06.26151	23.2	17.6	0.667	171.15	-21.01	18.454	-6.2	14.383	17.713	16.768	341.3	156.6
PgtRgt	145389869947809536	04 26 51.61606 +21 37 05.60269			8.924	-59.11	78.07	20.960	11.8	0.109	17.767	0	21.7	94.2
U27024	2027-11-09 17:49:32.94	04 26 35.74583 +21 36 33.14427	13.9	10.9	2.010	171.13	-21.35	18.443		14.501	16.771	15.986	111.0	158.3
PtRgt	145400246588802816	04 26 35.76806 +21 36 31.15812			26.889	-59.33	78.02	18.381		0.084	16.842	0	21.7	74.4
U27025	2027-11-12 14:56:41.35	04 26 07.22747 +21 35 32.03378	17.3	12.4	3.121	171.09	-21.88	18.426		14.715	17.190	16.398	151.3	161.3
XRgt	145306925538372992	04 26 07.26215 +21 35 28.95006			41.714	-59.70	77.93	12.685		0.076	17.288	0	21.7	37.9
U27026	2027-11-19 20:55:57.32	04 24 52.73373 +21 32 47.01712	51.9	38.9	2.183	170.97	-22.90	18.394		14.493	18.835	17.565	54.0	168.9
PtRgt	145349699116323456	04 24 52.75827 +21 32 44.86145			29.119	-60.66	77.70	19.085		0.101	18.982	0	21.6	63.7
U27027	2027-11-26 00:50:36.47	04 23 47.24984 +21 30 22.52789	11.5	8.6	3.569	170.88	-23.37	18.380		14.837	16.672	15.994	349.0	175.4
XRgt	145328675252675968	04 23 47.29036 +21 30 19.00403			47.575	-61.48	77.50	7.943		0.064	16.841	0	21.6	149.2
U27028	2027-11-27 04:45:45.87	04 23 34.84308 +21 29 48.13154	9.7	6.7	2.936	350.87	-23.42	18.378		14.073	16.084	15.394	289.0	176.6
XRgt	145328778331898368	04 23 34.80969 +21 29 51.03003			39.131	-61.64	77.46	14.985		0.093	16.255	0	21.6	164.5
U27029	2027-12-02 00:05:19.32	04 22 43.14193 +21 27 53.89206	29.5	22.0	0.762	350.80	-23.45	18.377	-12.9	14.706	18.179	17.194	354.1	178.3
PgtRgt	145339253756105856	04 22 43.13319 +21 27 54.64465			10.162	-62.26	77.30	23.353	6.5	0.086	18.352	0	21.5	134.0
U27030	2027-12-03 17:37:18.60	04 22 24.51969 +21 27 14.97746	3.7	2.7	2.442	170.78	-23.41	18.379		11.582	13.914	13.136	89.4	176.5
XRgt	145336303114517248	04 22 24.54773 +21 27 12.56655			32.557	-62.49	77.24	18.330			14.084	0	21.5	113.4
U27031	2027-12-05 07:28:40.78	04 22 07.63979 +21 26 35.45837	49.3	34.1	1.256	170.75	-23.34	18.381	-2.9	14.535	18.757	17.560	239.9	174.8
PgtRgt	145336779854872448	04 22 07.65424 +21 26 34.21849			16.746	-62.69	77.19	22.409	13.3	0.099	18.925	0	21.5	94.7
U27032	2027-12-05 10:21:17.55	04 22 06.33760 +21 26 34.32456	51.5	36.5	3.059	170.75	-23.33	18.381		14.576	18.831	17.610	196.6	174.7
XRgt	145336779854872192	04 22 06.37280 +21 26 31.30575			40.774	-62.70	77.18	13.956		0.096	18.999	0	21.5	93.3
U27033	2027-12-08 21:57:21.03	04 21 29.37463 +21 25 03.37388	5.0	3.5	3.545	350.70	-23.08	18.388		11.090	14.687	13.675	19.0	171.0
XRgt	145522842134567296	04 21 29.33362 +21 25 06.87263			47.282	-63.14	77.07	8.766		0.556	14.843	0	21.5	50.9
U27034	2027-12-25 14:34:38.19	04 18 42.26641 +21 18 42.96536	21.5	16.6	2.285	170.52	-20.31	18.474		14.614	17.623	16.693	112.5	153.3
PtRgt	49433183791869568	04 18 42.29335 +21 18 40.71200			30.611	-65.01	76.53	16.472		0.092	17.640	0	21.4	175.5
U28001	2028-01-28 03:01:17.94	04 15 00.02996 +21 10 04.82735	10.6	8.0	4.023	170.79	-7.82	18.865		13.387	15.925	15.108	251.9	118.3
XRt	49389448140769920	04 15 00.07597 +21 10 00.85611			55.046	-67.30	75.80			0.145	14.906	0	21.2	102.2
U28002	2028-01-31 19:06:26.60	04 14 48.76788 +21 09 32.78606	35.7	24.9	2.718	351.05	-6.05	18.921		14.045	18.129	16.975	7.0	114.6
XRgt	52391797783061888	04 14 48.73766 +21 09 35.47064			37.294	-67.41	75.76	4.257			16.832	0	21.2	58.8
U28003	2028-03-12 20:13:17.46	04 16 05.20400 +21 13 20.56629	29.8	24.4	2.112	169.49	14.77	19.602		14.879	17.793	16.922	310.1	73.5
XRgt	49393670092704896	04 16 05.23156 +21 13 18.48944			30.031	-66.60	76.01	12.138		0.080	17.464	0	21.3	131.5
U28004	2028-03-19 16:33:29.08	04 16 53.04890 +21 15 25.05661	13.7	9.9	3.471	169.65	18.01	19.712		14.611	16.814	16.061	358.5	66.9
XRgt	49475553645493376	04 16 53.09351 +21 15 21.64234			49.619	-66.10	76.17	4.382		0.079	16.700	0	21.3	137.6
U28005	2028-03-27 21:27:34.71	04 18 02.16453 +21 18 18.64016	45.5	34.1	2.241	169.83	21.66	19.836		13.907	18.601	17.214	277.2	59.0
XRgt	49479672517873536	04 18 02.19284 +21 18 16.43483			32.233	-65.37	76.39	17.040			18.688	0	21.4	40.1
U28006	2028-07-22 18:03:17.20	04 44 02.66453 +22 14 30.75229	7.8	5.6	0.475	352.41	26.43	19.990	3.0	13.341	15.538	14.794	219.6	47.6
PgtRgt	3412996728135577088	04 44 02.66001 +22 14 31.22325			6.889	-41.24	80.75	26.298	-7.3	0.151	15.841	0	22.3	56.2

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U28007	2028-07-22 21:15:21.27	04 44 04.14086 +22 14 35.84996	14.9	9.9	1.870	172.41	26.38	19.988		14.169	16.774	15.939	171.5	47.7
PRgt	3412996659416097664	04 44 04.15865 +22 14 33.99668			27.105	-41.20	80.76	22.435		0.135	17.075	0	22.3	58.2
U28008	2028-08-03 23:04:32.51	04 46 08.65267 +22 18 24.99867	14.7	9.3	3.222	172.57	21.77	19.824		13.896	16.299	15.542	132.8	58.8
XRgt	3413044385092765056	04 46 08.68270 +22 18 21.80334			46.330	-38.46	81.02	9.206		0.117	16.391	0	22.4	136.7
U28009	2028-08-05 11:11:38.18	04 46 22.57681 +22 18 44.93297	9.5	5.7	1.965	352.59	21.15	19.802		13.382	15.440	14.740	309.6	60.1
PRgt	3413044969208307840	04 46 22.55855 +22 18 46.88112			28.214	-38.14	81.04	17.647		0.142	15.501	0	22.4	118.5
U28010	2028-08-06 13:16:24.20	04 46 32.31372 +22 19 07.10139	61.1	36.7	2.603	172.60	20.70	19.785		14.973	18.690	17.600	277.4	61.1
XRgt	3413045033631278464	04 46 32.33789 +22 19 04.51969			37.358	-37.92	81.06	14.078			18.727	0	22.4	105.5
U28011*	2028-08-08 00:23:07.89	04 46 45.20159 +22 19 25.51746	15.4	10.3	2.141	352.62	20.08	19.763		13.514	15.783	15.029	109.3	62.5
XRgt	3413045209726460288	04 46 45.18177 +22 19 27.64034			30.684	-37.62	81.09	16.106		0.140	15.788	0	22.4	88.2
U28012	2028-08-12 09:02:41.27	04 47 21.22424 +22 20 30.86960	10.3	6.3	1.379	352.66	18.19	19.696	-3.3	13.981	15.903	15.235	335.3	66.5
PgtRgt	3413038887534574336	04 47 21.21154 +22 20 32.23765			19.704	-36.79	81.16	16.844	-9.2	0.105	15.800	0	22.4	36.5
U28013	2028-08-20 12:08:20.55	04 48 18.90319 +22 22 13.11916	11.7	7.3	1.910	352.70	14.47	19.566		12.907	16.000	15.068	281.1	74.1
PtRgt	3413060048838566016	04 48 18.88568 +22 22 15.01415			27.111	-35.43	81.27	12.251		0.220	15.649	0	22.4	75.0
U28014	2028-08-24 15:59:54.14	04 48 43.33365 +22 23 00.72333	20.3	13.5	2.208	172.68	12.49	19.497		13.658	17.232	16.192	219.2	78.0
XRgt	3412872689479554432	04 48 43.35392 +22 22 58.53360			31.218	-34.84	81.31	9.919		0.174	16.720	0	22.4	136.9
U28015	2028-08-26 07:15:34.57	04 48 51.97955 +22 23 16.45458	23.3	14.9	2.535	172.67	11.70	19.470		14.362	16.844	16.038	348.7	79.6
XRgt	3412873445394183552	04 48 52.00285 +22 23 13.94048			35.793	-34.63	81.33	8.352		0.097	16.262	0	22.4	159.5
U28016	2028-08-26 18:29:55.98	04 48 54.36408 +22 23 19.53437	28.5	20.2	1.373	172.67	11.47	19.462	8.9	14.177	17.890	16.785	179.6	80.0
PgtRgt	3412873411034053888	04 48 54.37671 +22 23 18.17302			19.374	-34.57	81.33	10.659	3.4	0.131	17.286	0	22.4	165.8
U28017	2028-09-28 16:03:35.18	04 49 42.50155 +22 24 54.24975	12.8	8.9	0.174	174.00	-4.77	18.911	-3.4	14.428	16.692	15.943	184.0	111.9
PgtRgt	3412875816215720320	04 49 42.50286 +22 24 54.07661			2.388	-33.38	81.41	4.839	4.9	0.089	15.137	0	22.5	122.8
U28018	2028-10-20 10:21:40.95	04 48 06.44524 +22 22 18.88548	18.1	11.0	2.746	353.27	-14.28	18.601		14.861	16.968	16.232	247.6	133.7
XRgt	3413036894669852928	04 48 06.42204 +22 22 21.61221			37.040	-35.69	81.24	9.743		0.070	16.603	0	22.4	165.0
U28019	2028-10-23 06:25:36.32	04 47 47.11635 +22 21 52.82912	15.1	9.3	2.920	173.22	-15.34	18.567		13.630	16.738	15.815	303.8	136.6
XRgt	3413037371411063552	04 47 47.14120 +22 21 49.92958			39.319	-36.15	81.20	9.834		0.177	16.450	0	22.4	155.8
U28020	2028-10-23 06:59:24.12	04 47 46.99278 +22 21 47.67508	27.4	17.6	1.996	353.22	-15.35	18.566		14.221	17.853	16.799	295.3	136.7
PtRgt	3413037371411104640	04 47 46.97579 +22 21 49.65682			26.873	-36.15	81.20	13.055		0.122	17.566	0	22.4	155.5
U28021	2028-10-25 12:03:47.18	04 47 30.95021 +22 21 25.93897	12.3	7.4	2.769	173.18	-16.14	18.541		14.289	16.440	15.716	217.0	138.9
XRgt	3413038818815208192	04 47 30.97390 +22 21 23.18949			37.236	-36.52	81.17	11.059		0.088	16.207	0	22.4	127.7
U28022	2028-10-28 23:23:02.75	04 47 04.21534 +22 20 42.17886	6.9	4.1	3.556	173.12	-17.30	18.503		12.610	14.708	14.000	43.6	142.5
XRgt	3413039334211183232	04 47 04.24604 +22 20 38.64848			47.721	-37.14	81.12	6.123		0.194	14.550	0	22.4	86.2
U28023	2028-11-03 14:41:25.49	04 46 16.95502 +22 19 21.59516	21.8	12.6	2.663	173.02	-19.01	18.449		14.700	17.173	16.436	168.3	148.3
XRgt	3413045793841019904	04 46 16.97833 +22 19 18.95173			35.634	-38.22	81.02	13.606		0.069	17.117	0	22.4	18.1
U28024	2028-11-09 05:36:42.46	04 45 25.58170 +22 17 54.09656	40.0	26.6	3.016	172.93	-20.47	18.402		14.691	18.225	17.104	298.7	154.2
XRgt	3412954220843585536	04 45 25.60845 +22 17 51.10357			40.253	-39.37	80.92	12.368		0.089	18.250	0	22.3	55.8
U28025	2028-11-30 07:08:48.95	04 41 47.70274 +22 11 28.45355	7.2	4.6	2.302	172.57	-23.38	18.311		13.016	14.995	14.348	254.0	176.3
XRgt	146370153282200576	04 41 47.72417 +22 11 26.17101			30.569	-43.97	80.44	18.831		0.151	15.165	0	22.2	24.8
U28026	2028-12-01 01:43:46.32	04 41 39.33853 +22 11 07.84364	11.8	7.8	3.100	352.56	-23.41	18.310		13.573	15.787	15.057	334.5	177.1
XRgt	146370084562725632	04 41 39.30962 +22 11 10.91744			41.165	-44.14	80.42	13.658		0.122	15.957	0	22.2	15.1
U28027	2028-12-01 21:28:42.44	04 41 30.38987 +22 10 51.37381	24.3	16.2	3.316	352.54	-23.43	18.309		14.651	17.618	16.710	37.4	177.9
XRgt	146370428160110720	04 41 30.35889 +22 10 54.66132			44.027	-44.32	80.40	11.489		0.090	17.790	0	22.2	5.2
U28028	2028-12-04 11:27:47.76	04 41 02.26561 +22 10 00.63575	12.2	7.6	2.778	352.50	-23.45	18.308		13.425	16.036	15.227	184.9	179.3
XRgt	146372008708006016	04 41 02.23951 +22 10 03.38966			36.884	-44.88	80.33	16.314		0.141	16.208	0	22.2	29.9
U28029	2028-12-14 08:00:43.05	04 39 15.84612 +22 06 45.16823	8.7	6.0	1.576	352.35	-22.92	18.325	-10.3	13.779	15.942	15.237	226.5	168.9
PgtRgt	144879112435214720	04 39 15.83102 +22 06 46.73052			20.951	-46.93	80.08	21.029	-2.8		16.090	0	22.2	168.0
U28030	2028-12-29 17:39:23.21	04 36 41.26579 +22 01 51.89082	4.0	2.6	2.177	352.14	-20.11	18.411		10.981	13.751	12.920	66.1	152.6
PRgt	144910689034698368	04 36 41.24439 +22 01 54.04752			29.071	-49.73	79.68	16.631		0.477	13.757	0	22.1	4.1
U28031	2028-12-30 22:03:32.95	04 36 30.32782 +22 01 36.14595	4.7	3.1	3.034	172.13	-19.81	18.420		12.191	14.134	13.476	358.8	151.4
XRgt	144910551595750016	04 36 30.35769 +22 01 33.14082			40.529	-49.92	79.66	11.872		0.227	14.124	0	22.1	18.9

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U29001	2029-01-03 00:08:48.99	04 36 02.82861 +22 00 37.16629	51.3	32.3	2.930	352.10	-18.96	18.446		14.565	18.576	17.326	324.3	148.1
XRgt	144912059129429632	04 36 02.79966 +22 00 40.06874			39.203	-50.40	79.58	12.195			18.518	0	22.1	61.7
U29002	2029-01-03 11:17:09.48	04 35 58.78341 +22 00 30.55377	19.8	12.8	1.746	352.10	-18.83	18.451	-10.2	13.501	17.161	16.027	156.8	147.6
PgtRgt	144911749891782272	04 35 58.76614 +22 00 32.28368			23.371	-50.47	79.57	16.876	-4.4	0.182	17.095	0	22.1	68.2
U29003	2029-01-03 21:39:36.42	04 35 55.03782 +22 00 24.93312	20.2	13.8	0.150	352.09	-18.70	18.455	-8.0	14.791	17.254	16.475	0.7	147.2
PgtRgt	144911715532041728	04 35 55.03634 +22 00 25.08155			2.006	-50.53	79.56	18.843	6.7		17.181	0	22.1	74.4
U29004	2029-01-12 23:51:14.86	04 34 43.07147 +21 58 08.29683	18.5	10.9	2.659	172.05	-15.70	18.548		13.230	16.695	15.675	318.5	137.6
XRgt	145005178316293888	04 34 43.09792 +21 58 05.66291			35.777	-51.75	79.37	11.226		0.195	16.432	0	22.0	158.4
U29005	2029-01-17 20:01:42.74	04 34 10.40777 +21 57 05.73555	13.2	8.1	3.581	172.04	-13.83	18.606		14.324	16.288	15.600	11.0	132.6
XRgt	145002670055408000	04 34 10.44339 +21 57 02.18924			48.321	-52.28	79.28	4.028		0.083	15.887	0	22.0	96.9
U29006*	2029-01-20 21:29:47.46	04 33 52.06057 +21 56 24.16599	32.9	21.6	2.287	352.06	-12.57	18.646		12.523	15.029	14.223	345.9	129.4
XRgt	145001364385358720	04 33 52.03786 +21 56 26.43085			30.925	-52.58	79.23	10.084		0.216	14.525	0	22.0	60.3
U29007	2029-01-30 00:54:57.39	04 33 08.20997 +21 54 57.99890	3.9	2.9	3.814	352.20	-8.53	18.773		11.613	13.629	12.934	285.4	119.9
XRt	144990266189888000	04 33 08.17276 +21 55 01.77781			51.933	-53.28	79.11			0.310	12.703	0	22.0	57.2
U29008	2029-01-31 03:33:12.95	04 33 04.03853 +21 54 52.62876	27.0	18.4	1.269	352.23	-8.01	18.790	-11.4	14.148	17.562	16.549	244.7	118.8
PgtRgt	144990231830152320	04 33 04.02621 +21 54 53.88596			17.291	-53.35	79.10	7.630	0.6	0.122	16.569	0	22.0	73.4
U29009	2029-02-02 22:39:58.78	04 32 54.77450 +21 54 33.51457	55.1	42.8	2.914	352.37	-6.70	18.832		14.742	18.683	17.523	315.3	115.9
XRgt	144992838874066816	04 32 54.74669 +21 54 36.40248			39.796	-53.49	79.07	4.185			17.495	0	22.0	114.5
U29010	2029-02-04 15:59:25.13	04 32 49.87621 +21 54 27.20801	20.1	15.3	0.170	352.48	-5.87	18.858	-8.9	14.871	17.200	16.490	53.7	114.1
PgtRgt	144992804514327424	04 32 49.87461 +21 54 27.37665			2.327	-53.57	79.06	5.968	7.5	0.067	15.869	0	22.0	139.3
U29011	2029-02-09 15:17:03.12	04 32 39.47551 +21 54 09.73490	51.4	39.3	0.810	173.16	-3.42	18.937	-4.1	14.815	18.816	17.703	59.3	109.1
PgtRgt	144992941953276672	04 32 39.48244 +21 54 08.93029			11.130	-53.73	79.03	3.452	11.0		16.899	0	22.0	153.0
U29012	2029-03-16 00:24:12.23	04 34 00.22101 +21 57 17.24790	65.0	39.9	0.427	171.23	14.12	19.511	9.5	14.483	18.798	17.501	249.0	74.8
PgtRgt	145002974996928128	04 34 00.22570 +21 57 16.82562			6.046	-52.41	79.25	14.156	-5.6		18.420	0	22.0	65.8
U29013	2029-04-03 01:53:09.90	04 36 22.85005 +22 02 14.95983	9.0	6.1	0.687	351.60	22.32	19.790	3.5	13.639	15.463	14.827	209.6	57.5
PgtRgt	144913472173512576	04 36 22.84283 +22 02 15.63953			9.862	-49.99	79.63	22.067	-9.8	0.119	15.582	0	22.1	176.8
U29014	2029-04-04 21:09:33.48	04 36 40.35200 +22 02 51.72151	18.5	12.5	0.194	171.63	23.06	19.816	8.0	13.808	17.005	16.056	278.7	55.8
PgtRgt	144910792113911680	04 36 40.35404 +22 02 51.52926			2.793	-49.68	79.67	23.202	-6.2	0.148	17.160	0	22.1	157.3
U29015	2029-04-06 04:20:57.93	04 36 53.31048 +22 03 18.51623	12.6	9.0	0.525	171.66	23.59	19.834	9.2	14.561	16.386	15.777	169.7	54.6
PgtRgt	144910104919140096	04 36 53.31597 +22 03 17.99646			7.557	-49.45	79.70	23.498	-4.3	0.078	16.565	0	22.1	140.3
U29016	2029-04-06 09:12:48.87	04 36 55.35430 +22 03 22.97018	8.8	6.1	0.811	171.66	23.67	19.837	10.0	13.779	15.743	15.073	96.5	54.4
PgtRgt	144915911714923392	04 36 55.36276 +22 03 22.16801			11.664	-49.42	79.71	23.197	-2.6	0.112	15.926	0	22.1	137.8
U29017*	2029-04-07 16:46:08.11	04 37 08.77694 +22 03 52.19009	121.2	86.4	2.706	171.69	24.19	19.855		14.134	16.446	15.581	341.9	53.1
XRgt	144915804340182784	04 37 08.80508 +22 03 49.51286			38.961	-49.18	79.74	15.496			16.653	0	22.1	121.3
U29018	2029-07-30 23:39:17.07	05 03 08.18587 +22 48 14.26035	17.1	11.8	3.173	174.18	25.18	19.875		14.457	16.884	16.131	132.5	50.7
XRgt	3418319773164420992	05 03 08.20915 +22 48 11.10397			45.735	-10.97	82.24	10.826			17.134	0	22.8	66.5
U29019	2029-07-31 22:42:24.46	05 03 18.56356 +22 48 26.48536	15.6	10.8	0.794	174.19	24.83	19.862	4.3	13.048	16.666	15.594	145.8	51.6
PgtRgt	3418342450592030720	05 03 18.56937 +22 48 25.69552			11.437	-10.67	82.24	24.199	3.0	0.241	16.901	0	22.8	55.2
U29020	2029-08-06 00:46:50.87	05 04 11.04418 +22 49 38.32716	10.4	7.5	0.740	354.26	22.87	19.792	-2.9	14.061	15.910	15.250	109.9	56.3
PgtRgt	3418340693948667648	05 04 11.03882 +22 49 39.06371			10.626	-9.10	82.25	22.368	-3.8	0.099	16.056	0	22.9	6.3
U29021	2029-08-06 04:50:48.91	05 04 12.71048 +22 49 42.00405	13.4	9.5	0.614	174.26	22.80	19.790	3.2	14.289	16.377	15.679	48.8	56.4
PgtRgt	3418340728308407040	05 04 12.71492 +22 49 41.39362			8.806	-9.05	82.26	22.462	2.4	0.095	16.519	0	22.9	8.4
U29022	2029-08-11 20:19:28.23	05 05 05.75392 +22 50 57.73781	26.9	16.3	2.993	174.31	20.47	19.707		14.910	17.556	16.775	171.3	61.7
XRgt	3418300355615846144	05 05 05.77538 +22 50 54.75943			42.781	-7.46	82.26	11.161		0.074	17.582	0	22.9	85.2

^a A nearby event has the same 2MASS ID as this event, resulting in a corresponding K magnitude ambiguity.

* Superscript * indicates RUWE > 1.4, ** indicates RUWE > 2, and *** indicates RUWE > 5. See machine-readable file for RUWE values.

Table 2. Geocentric Uranus Occultation Predictions 2023–2050 for $K \leq 15$ (part 2 of 7)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (″)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U29023*	2029-08-19 14:59:12.56	05 06 09.51747 +22 52 21.53476	34.4	21.9	0.594	354.36	17.05	19.587	-2.7	14.123	16.354	15.341	243.9	68.9
PgtRgt	3418379215512270976	05 06 09.51325 +22 52 22.12539			8.431	-5.54	82.27	16.823	-2.7	0.094	16.180	0	22.9	164.8
U29024	2029-08-19 15:45:48.53	05 06 09.74036 +22 52 24.46341	17.1	12.0	2.018	174.35	17.03	19.586		13.960	16.719	15.870	232.3	68.9
PRgt	3418379215512270720	05 06 09.75473 +22 52 22.45527			28.665	-5.53	82.27	14.074		0.117	16.544	0	22.9	164.4
U29025	2029-09-08 17:36:50.70	05 07 58.79305 +22 54 54.19644	21.1	14.8	1.746	174.09	7.42	19.252	7.8	14.961	17.372	16.650	185.2	87.9
PgtRgt	3415381633279587840	05 07 58.80607 +22 54 52.45953			24.382	-2.26	82.25	6.542	8.0	0.071	16.295	0	23.0	91.9
U29026	2029-09-11 06:13:55.92	05 08 06.42764 +22 55 06.08398	24.0	16.4	2.579	173.93	6.15	19.209		14.735	17.549	16.717	353.4	90.3
XRgt	3415380843005608960	05 08 06.44738 +22 55 03.51906			35.935	-2.03	82.25	4.341			16.269	0	23.0	129.4
U29027	2029-09-12 21:28:29.63	05 08 10.65822 +22 55 07.27477	7.4	5.0	2.480	353.80	5.33	19.181		13.449	15.290	14.658	123.2	91.9
XRgt	3415380744223125888	05 08 10.63883 +22 55 09.73979			34.494	-1.91	82.25	3.948		0.130	13.854	0	23.0	153.3
U29028	2029-09-30 08:51:27.36	05 08 18.13820 +22 55 32.22798	35.6	25.0	2.084	176.63	-3.34	18.889		14.536	18.196	17.065	295.3	109.0
PtRgt	3415404177564689408	05 08 18.14708 +22 55 30.14794			28.545	-1.68	82.25	2.815			16.253	0	23.0	13.2
U29029	2029-10-16 11:49:39.49	05 07 25.25042 +22 54 36.44294	3.7	2.8	1.641	175.35	-10.80	18.644	7.3	11.854	13.836	13.165	234.6	125.1
PgtRgt	3418382509750084480	05 07 25.26004 +22 54 34.80761			22.186	-3.26	82.25	9.728	7.1	0.273	13.166	0	22.9	120.7
U29030	2029-10-24 10:11:50.59	05 06 39.65068 +22 53 42.05992	5.3	3.5	0.261	355.15	-14.03	18.539	-1.1	11.227	12.920	12.345	251.1	133.1
PgtRgt	3418380280664291712	05 06 39.64911 +22 53 42.32007			3.514	-4.63	82.26	14.012	-1.1		12.535	0	22.9	25.0
U29031	2029-10-26 07:55:33.12	05 06 26.91333 +22 53 30.74109	9.3	6.2	3.422	175.10	-14.75	18.516		13.394	15.480	14.781	283.2	135.1
XRgt	3418380589901940864	05 06 26.93447 +22 53 27.33153			45.954	-5.01	82.26	6.288		0.133	15.149	0	22.9	2.4
U29032	2029-10-26 10:26:58.80	05 06 26.22377 +22 53 24.85650	34.4	23.2	1.627	355.10	-14.79	18.515	-7.1	13.944	17.896	16.764	245.2	135.2
PgtRgt	3418380585604834816	05 06 26.21371 +22 53 26.47799			21.853	-5.03	82.26	13.358	-7.0	0.145	17.569	0	22.9	1.2
U29033	2029-10-26 21:57:53.58	05 06 22.88191 +22 53 25.49117	4.7	2.9	2.953	175.09	-14.97	18.509		10.965	12.860	12.218	72.0	135.7
XRgt	3418380555542204160	05 06 22.90023 +22 53 22.54863			39.642	-5.13	82.26	9.438		0.404	12.545	0	22.9	4.9
U29034	2029-10-30 04:16:53.26	05 05 59.32210 +22 52 50.85979	22.4	16.0	3.487	355.02	-16.16	18.471		14.821	17.350	16.562	334.0	139.0
XRgt	3418390618648431360	05 05 59.30020 +22 52 54.33381			46.716	-5.84	82.26	6.514		0.069	17.119	0	22.9	45.5
U29035	2029-11-05 04:53:33.57	05 05 11.11126 +22 51 54.17722	14.4	9.3	1.476	354.91	-18.15	18.408	-6.5	14.415	16.479	15.797	318.6	145.3
PgtRgt	3418300394271866752	05 05 11.10178 +22 51 55.64788			19.712	-7.28	82.25	16.722	-6.1	0.083	16.374	0	22.9	131.1
U29036	2029-11-07 14:34:12.67	05 04 50.32029 +22 51 32.11371	16.2	10.7	2.163	174.86	-18.87	18.385		13.546	16.715	15.771	171.0	147.7
PtRgt	3418299775796596352	05 04 50.33430 +22 51 29.95938			28.842	-7.90	82.25	15.526		0.159	16.652	0	22.9	167.8
U29037	2029-11-07 20:11:29.59	05 04 48.26491 +22 51 27.63930	15.5	10.0	0.251	174.86	-18.94	18.383	0.7	14.648	16.695	16.009	86.5	148.0
PgtRgt	3418299844516075776	05 04 48.26653 +22 51 27.38919			3.348	-7.96	82.25	18.910	1.5	0.069	16.636	0	22.9	171.3
U29038	2029-11-12 12:21:31.76	05 04 05.51922 +22 50 30.73063	10.8	7.3	3.008	354.77	-20.18	18.343		13.852	15.942	15.238	199.2	152.9
XRgt	3418341522878750720	05 04 05.49937 +22 50 33.72628			40.021	-9.24	82.24	12.426		0.106	15.952	0	22.9	123.1
U29039	2029-11-18 06:25:49.31	05 03 09.33664 +22 49 25.31281	17.5	12.2	3.458	174.65	-21.44	18.303		14.335	17.052	16.341	282.2	158.9
XRgt	3418343442727736576	05 03 09.35994 +22 49 21.86952			45.908	-10.91	82.22	9.285		0.101	17.128	0	22.9	52.7
U29040	2029-11-20 12:35:45.08	05 02 46.46864 +22 48 48.38892	39.1	26.7	3.726	354.61	-21.86	18.290		14.646	18.415	17.302	187.4	161.2
XRgt	3418331897854503808	05 02 46.44332 +22 48 52.09831			49.424	-11.59	82.21	5.376			18.512	0	22.9	25.9
U29041	2029-11-27 14:58:40.66	05 01 31.79065 +22 47 13.45763	36.6	25.2	0.020	174.45	-22.87	18.258	-1.1	14.755	18.196	17.162	144.4	168.7
PgtRgt	3418328668039087872	05 01 31.79079 +22 47 13.43755			0.267	-13.80	82.17	22.880	1.3		18.342	0	22.8	61.9
U29042	2029-11-27 22:19:50.22	05 01 28.47779 +22 47 11.85810	7.4	5.3	2.841	174.47	-22.91	18.257		13.259	15.274	14.600	33.7	169.0
XRgt	3418328294379363072	05 01 28.49759 +22 47 09.02994			37.624	-13.89	82.17	15.378		0.136	15.422	0	22.8	66.0
U29043	2029-11-28 16:01:29.58	05 01 20.54440 +22 46 59.57645	18.6	12.9	1.205	174.46	-22.98	18.255	4.1	14.569	17.285	16.411	127.6	169.8
PgtRgt	3418515997332663936	05 01 20.55281 +22 46 58.37753			15.948	-14.13	82.17	21.837	6.1	0.084	17.436	0	22.8	75.8
U29044*	2029-12-01 06:52:14.41	05 00 52.11718 +22 46 22.76621	18.2	11.9	2.722	174.41	-23.21	18.248		14.323	16.342	15.653	262.2	172.6
XRgt	3418515314435415552	05 00 52.13636 +22 46 20.05728			36.023	-14.96	82.15	16.375		0.110	16.504	0	22.8	112.3
U29045*	2029-12-03 07:01:35.55	05 00 30.16458 +22 45 54.21980	98.8	64.9	4.003	174.37	-23.34	18.244		14.347	17.440	16.415	257.8	174.7
XRt	3412513247961444480	05 00 30.19297 +22 45 50.23584			52.970	-15.60	82.14			0.110	17.608	0	22.8	141.9
U29046	2029-12-04 00:55:04.68	05 00 22.01521 +22 45 38.64415	10.2	6.4	0.424	354.35	-23.38	18.243	-3.2	13.486	15.450	14.770	348.6	175.5
PgtRgt	3412513424056337408	05 00 22.01219 +22 45 39.06642			5.614	-15.84	82.13	23.238	-0.4	0.123	15.619	0	22.8	153.1

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U29047	2029-12-06 07:52:09.19	04 59 56.83211	+22 45 03.04058	5.2	3.5	1.468	354.31	-23.45	18.240	-7.3	12.458	14.500	13.822	242.0	177.9
PgtRgt	3412513905092383232	04 59 56.82159	+22 45 04.50141			19.421	-16.57	82.11	21.696	-5.2	14.672	0	22.8	172.3	
U29048	2029-12-06 18:25:39.09	04 59 51.98441	+22 44 56.37731	16.4	10.9	1.449	354.31	-23.46	18.240	-7.2	14.737	16.812	16.135	83.2	178.3
PgtRgt	3412524178654162816	04 59 51.97401	+22 44 57.81961			19.175	-16.71	82.11	21.718	-5.1	0.069	16.985	0	22.8	165.8
U29049	2029-12-07 18:57:36.58	04 59 40.71051	+22 44 41.65391	21.8	13.8	0.599	354.29	-23.47	18.240	-4.1	13.693	17.168	16.113	74.1	179.4
PgtRgt	3412524316093131904	04 59 40.70620	+22 44 42.25037			7.930	-17.04	82.10	23.190	-1.0	0.162	17.342	0	22.8	150.9
U29050	2029-12-08 16:31:31.69	04 59 30.80853	+22 44 27.32873	9.4	6.2	1.195	354.27	-23.47	18.239	-6.4	13.580	15.793	15.062	109.7	179.6
PgtRgt	3412523968199788672	04 59 30.79990	+22 44 28.51800			15.811	-17.32	82.09	22.321	-3.7	0.128	15.967	0	22.8	138.2
U29051	2029-12-09 20:43:20.59	04 59 17.82847	+22 44 13.74428	17.8	11.0	3.254	174.25	-23.45	18.240		13.905	16.409	15.657	45.6	178.4
XRgt	3412524831489234944	04 59 17.85204	+22 44 10.50644			43.049	-17.70	82.08	12.477		0.113	16.582	0	22.8	122.2
U29052	2029-12-11 09:40:07.81	04 59 00.87931	+22 43 50.65910	60.0	36.7	3.849	174.22	-23.41	18.241		14.666	18.538	17.369	209.8	176.7
XRt	3412521837895996928	04 59 00.90734	+22 43 46.82942			50.924	-18.18	82.07				18.709	0	22.8	102.1
U29053	2029-12-14 22:54:54.39	04 58 21.97514	+22 42 54.83311	68.1	41.8	2.842	174.15	-23.23	18.246		14.811	18.874	17.733	7.4	173.0
XRgt	3412521081981738752	04 58 21.99606	+22 42 52.00564			37.612	-19.30	82.03	15.584			19.037	0	22.8	58.7
U29054	2029-12-15 06:56:44.68	04 58 18.36074	+22 42 45.30971	12.8	8.8	1.534	354.15	-23.21	18.247	-7.7	14.353	16.353	15.679	246.6	172.6
PgtRgt	3412567983024608768	04 58 18.34944	+22 42 46.83608			20.306	-19.40	82.03	21.292	-5.3		16.515	0	22.8	54.7
U29055	2029-12-15 22:35:11.41	04 58 11.24830	+22 42 38.18778	4.7	3.3	1.427	174.14	-23.16	18.248	4.7	11.395	14.134	13.307	11.3	171.9
PgtRgt	3412567643723306368	04 58 11.25883	+22 42 36.76842			18.884	-19.60	82.02	21.526	7.4	0.382	14.294	0	22.8	47.0
U29056	2029-12-18 00:21:55.73	04 57 48.78405	+22 42 08.08576	19.2	12.1	3.349	174.10	-22.97	18.254		14.503	16.994	16.211	342.5	169.7
XRgt	3412545099438845312	04 57 48.80894	+22 42 04.75430			44.340	-20.24	82.00	11.026		0.087	17.145	0	22.7	22.3
U29057	2029-12-18 10:27:08.16	04 57 44.28357	+22 41 58.35151	39.3	24.2	0.075	174.09	-22.93	18.255	-1.8	14.530	18.196	17.102	190.8	169.3
PgtRgt	3412544996359625728	04 57 44.28413	+22 41 58.27713			0.990	-20.36	82.00	22.941	2.4		18.345	0	22.7	17.3
U29058	2029-12-18 16:46:58.49	04 57 41.42543	+22 41 57.34017	19.2	11.9	3.143	174.09	-22.90	18.256		14.794	17.033	16.358	95.5	169.0
XRgt	3412545172454436736	04 57 41.44883	+22 41 54.21414			41.611	-20.44	82.00	12.973		0.070	17.180	0	22.7	14.1
U29059	2029-12-20 10:32:36.67	04 57 22.84202	+22 41 27.23645	14.9	10.1	0.232	354.06	-22.70	18.262	-3.1	14.708	16.746	16.049	187.3	167.2
PgtRgt	3412547715075096832	04 57 22.84028	+22 41 27.46706			3.071	-20.97	81.98	22.679	1.2	0.070	16.884	0	22.7	7.1
U29060	2029-12-25 02:04:40.28	04 56 34.10715	+22 40 15.14604	23.6	15.8	1.640	353.98	-22.04	18.282	-8.2	14.855	17.569	16.672	309.5	162.3
PgtRgt	3412552796020904064	04 56 34.09473	+22 40 16.77688			21.744	-22.33	81.93	19.948	-5.8	0.072	17.675	0	22.7	66.2
U29061	2029-12-31 19:57:05.57	04 55 26.54984	+22 38 40.28851	14.3	10.0	2.871	173.88	-20.71	18.324		14.224	16.651	15.861	34.5	155.1
XRgt	3412555411656260864	04 55 26.57193	+22 38 37.43416			38.150	-24.19	81.85	13.783		0.098	16.689	0	22.7	160.2
U30001	2030-01-05 08:49:40.52	04 54 43.92603	+22 37 33.56583	15.3	9.5	0.305	353.82	-19.57	18.359	-4.1	14.061	16.528	15.757	196.7	150.3
PgtRgt	3413211373420938752	04 54 43.92366	+22 37 33.86896			4.060	-25.35	81.80	19.534	1.5	0.105	16.504	0	22.7	133.8
U30002	2030-01-07 07:02:36.83	04 54 26.64041	+22 37 05.00813	20.6	13.7	2.903	353.80	-19.02	18.375		14.549	17.179	16.354	221.5	148.3
XRgt	3413211167262512000	04 54 26.61777	+22 37 07.89390			38.685	-25.81	81.78	12.303		0.095	17.124	0	22.7	107.6
U30003	2030-01-07 14:23:45.23	04 54 23.93100	+22 37 01.36453	8.6	5.9	2.473	353.80	-18.93	18.378		12.911	15.435	14.636	110.9	148.0
XRgt	3413211167262512896	04 54 23.91170	+22 37 03.82340			32.967	-25.88	81.77	14.471		0.181	15.375	0	22.7	103.5
U30004	2030-01-08 21:41:42.81	04 54 12.52758	+22 36 48.43052	7.7	5.0	1.748	173.78	-18.54	18.390	6.3	13.337	15.236	14.569	0.1	146.6
PgtRgt	3413214019120800640	04 54 12.54124	+22 36 46.69319			23.309	-26.19	81.76	16.524	8.6		15.154	0	22.7	86.8
U30005	2030-01-11 07:42:05.41	04 53 52.12320	+22 36 16.83235	18.5	12.5	0.999	173.76	-17.79	18.413	1.7	14.523	17.148	16.342	207.5	144.1
PgtRgt	3413209067022432512	04 53 52.13105	+22 36 15.83900			13.345	-26.73	81.73	17.192	6.9	0.085	17.021	0	22.7	57.1
U30006	2030-01-13 06:22:20.48	04 53 36.33651	+22 35 55.19959	8.1	5.4	3.307	173.74	-17.15	18.433		11.752	15.104	14.145	225.5	142.0
XRgt	3413208826504255872	04 53 36.36257	+22 35 51.91193			44.216	-27.15	81.71	8.579		0.372	14.937	0	22.6	34.0
U30007	2030-01-13 23:00:32.65	04 53 30.86820	+22 35 46.04136	36.0	23.6	2.470	173.73	-16.91	18.440		14.973	18.130	17.197	335.2	141.3
XRgt	3413219070002139648	04 53 30.88768	+22 35 43.58571			33.040	-27.29	81.70	12.923		0.075	17.948	0	22.6	25.8
U30008	2030-01-25 08:17:12.56	04 52 12.89939	+22 33 45.77275	4.3	2.6	1.449	173.69	-12.59	18.575	4.0	10.236	13.269	12.376	184.5	129.4
PgtRgt	3413198248000757760	04 52 12.91090	+22 33 44.33261			19.520	-29.32	81.59	11.662	8.5	0.703	12.767	0	22.6	122.0
U30009	2030-02-21 04:16:14.71	04 50 53.98374	+22 31 50.50834	9.3	6.8	2.970	149.62	0.17	18.982		13.826	15.760	15.108	218.0	101.9
XRgt	3413241369472480128	04 50 54.09215	+22 31 47.94582			40.892	-31.31	81.46	0.362		0.111	10.598	0	22.6	116.3
U30010	2030-03-02 01:15:42.91	04 51 03.77638	+22 32 03.94303	19.4	13.3	3.782	352.40	4.73	19.131		14.682	17.070	16.322	254.4	93.0
XRt	3413242602128558208	04 51 03.74026	+22 32 07.69191			52.477	-31.07	81.48			0.086	15.506	0	22.6	119.8

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U30011	2030-03-19 05:21:06.97	04 52 13.08033 +22 34 11.50958	4.1	2.8	3.582	173.06	13.45	19.419		9.957	12.449	11.689	176.4	76.2
XRgt	3413198449863123072	04 52 13.11162 +22 34 07.95411			50.446	-29.30	81.58	0.037		0.768	12.018	0	22.6	96.7
U30012*	2030-04-06 10:37:39.78	04 54 34.08490 +22 38 00.28481	12.9	8.5	0.710	173.39	21.82	19.703	5.8	12.012	15.151	14.233	79.9	58.7
PgtRgt	3413211510859893632	04 54 34.09080 +22 37 59.57905			10.153	-25.58	81.78	21.411	0.7	0.335	15.245	0	22.7	20.0
U30013	2030-04-06 17:03:51.74	04 54 36.63121 +22 38 04.20658	9.6	6.5	0.549	173.39	21.93	19.707	5.2	12.992	15.549	14.743	343.1	58.4
PgtRgt	3413211613939108224	04 54 36.63577 +22 38 03.66111			7.849	-25.51	81.78	21.707	-0.2	0.186	15.650	0	22.7	16.8
U30014	2030-04-10 17:55:42.79	04 55 16.41484 +22 39 09.71094	12.7	9.0	2.619	173.47	23.59	19.764		14.017	16.402	15.638	326.3	54.6
XRgt	3412461815728571648	04 55 16.43637 +22 39 07.10850			37.548	-24.43	81.83	16.002		0.109	16.581	0	22.7	31.2
U30015	2030-04-14 09:54:13.87	04 55 54.92414 +22 40 08.48996	21.9	15.3	0.698	173.54	25.01	19.814	5.5	14.820	17.205	16.396	83.3	51.2
PgtRgt	3412554995044152448	04 55 54.92982 +22 40 07.79615			10.034	-23.37	81.87	24.545	0.9	0.080	17.448	0	22.7	78.4
U30016	2030-04-14 17:57:12.93	04 55 58.57128 +22 40 11.96050	13.9	9.6	1.534	353.54	25.13	19.818	-5.9	13.992	16.444	15.667	322.2	50.8
PgtRgt	3412554960684418560	04 55 58.55881 +22 40 13.48475			22.049	-23.27	81.88	22.675	-8.3	0.120	16.692	0	22.7	83.0
U30017	2030-04-19 12:14:55.82	04 56 51.94143 +22 41 34.95149	5.4	3.9	1.558	353.63	26.86	19.879	-6.2	12.388	14.488	13.783	43.3	46.4
PgtRgt	3412547027880352512	04 56 51.92895 +22 41 36.49958			22.458	-21.79	81.93	24.114	-8.3	0.230	14.808	0	22.7	152.9
U30018	2030-04-20 20:42:16.06	04 57 07.70185 +22 41 59.47493	26.2	18.9	1.318	353.66	27.33	19.895	-4.6	14.969	17.441	16.606	275.2	45.1
PgtRgt	3412547234038768000	04 57 07.69134 +22 42 00.78446			19.012	-21.35	81.95	25.347	-7.6	0.081	17.780	0	22.7	173.2
U30019	2030-04-21 00:10:38.35	04 57 09.39982 +22 42 02.59649	11.3	8.0	0.809	353.66	27.38	19.897	-1.8	14.020	15.975	15.326	223.0	45.0
PgtRgt	3412547234038766208	04 57 09.39337 +22 42 03.40047			11.673	-21.31	81.95	26.676	-5.7	0.102	16.315	0	22.7	175.3
U30020	2030-07-31 16:13:07.60	05 21 04.81965 +23 12 00.91343	9.6	6.8	1.175	355.90	26.65	19.858	-8.1	12.868	15.562	14.689	248.1	47.0
PgtRgt	3414849714466427520	05 21 04.81355 +23 12 02.08576			16.928	19.71	81.50	25.197	-2.7	0.187	15.874	0	23.2	61.4
U30021	2030-08-02 07:18:53.44	05 21 23.46964 +23 12 18.82134	27.5	18.5	1.660	355.92	26.07	19.837	-8.9	14.605	17.669	16.729	20.2	48.5
PgtRgt	3416349993786464256	05 21 23.46108 +23 12 20.47664			23.876	20.17	81.47	23.018	-6.5	0.094	17.957	0	23.2	82.6
U30022	2030-08-03 10:12:47.27	05 21 36.06359 +23 12 32.79093	48.6	31.8	0.056	355.93	25.67	19.823	-4.0	14.257	18.571	17.381	335.6	49.5
PgtRgt	3416338586353330816	05 21 36.06330 +23 12 32.84712			0.810	20.49	81.45	25.723	3.4	0.127	18.841	0	23.2	97.5
U30023	2030-08-06 15:35:36.30	05 22 11.24021 +23 13 09.09101	14.5	8.8	1.945	175.97	24.47	19.780		13.332	16.171	15.249	251.9	52.5
PRgt	3416339380923488256	05 22 11.25011 +23 13 07.15079			27.903	21.36	81.40	20.523		0.157	16.390	0	23.2	141.8
U30024	2030-08-08 11:12:25.89	05 22 30.37004 +23 13 24.37696	27.9	17.6	1.272	356.00	23.77	19.755	-8.6	14.255	17.363	16.395	316.0	54.2
PgtRgt	3416342129702544512	05 22 30.36360 +23 13 25.64549			18.220	21.82	81.36	22.257	-3.1	0.111	17.550	0	23.3	167.5
U30025	2030-08-09 15:29:43.68	05 22 42.49088 +23 13 34.39910	55.3	34.1	2.924	356.01	23.31	19.739		14.914	18.260	17.187	250.5	55.2
XRgt	3416341472571381248	05 22 42.47612 +23 13 37.31571			41.855	22.12	81.34	13.287		0.081	18.426	0	23.3	175.4
U30026	2030-08-09 17:07:37.52	05 22 43.16330 +23 13 38.87682	9.1	5.7	0.898	176.01	23.28	19.738	0.6	12.453	15.339	14.402	226.0	55.3
PgtRgt	3416341476867507200	05 22 43.16783 +23 13 37.98099			12.855	22.14	81.34	22.568	7.6	0.239	15.504	0	23.3	174.5
U30027	2030-08-15 20:36:17.79	05 23 42.49074 +23 14 33.25322	39.9	29.6	1.341	356.07	20.79	19.648	-8.9	14.662	18.170	17.155	168.0	61.0
PgtRgt	3416295567960945536	05 23 42.48407 +23 14 34.59071			19.105	23.56	81.24	19.324	-3.3	0.097	18.212	0	23.3	88.4
U30028	2030-08-27 08:30:25.39	05 25 15.17963 +23 16 02.56716	32.7	22.0	0.733	176.10	15.70	19.469	-0.9	14.722	17.951	16.990	338.5	71.7
PgtRgt	3416310308289710208	05 25 15.18325 +23 16 01.83622			10.345	25.72	81.07	15.440	7.5	0.086	17.688	0	23.3	52.3
U30029	2030-08-29 02:49:08.31	05 25 27.11981 +23 16 16.10638	23.6	14.7	3.030	176.09	14.88	19.440		14.478	17.145	16.268	62.2	73.3
XRgt	3416307696949597312	05 25 27.13482 +23 16 13.08317			42.725	25.99	81.05	8.008		0.091	16.824	0	23.3	75.3
U30030	2030-09-06 17:40:42.59	05 26 16.32980 +23 16 56.35569	38.5	23.4	3.625	355.97	10.73	19.297		14.569	18.113	17.114	191.0	81.5
XRt	3416120715548516096	05 26 16.31130 +23 16 59.97122			50.726	27.10	80.95	0.984		0.099	17.437	0	23.3	164.4
U30031	2030-09-07 17:05:16.87	05 26 20.87832 +23 17 05.99780	10.7	7.0	1.570	175.94	10.25	19.280	4.5	13.587	15.957	15.161	198.9	82.4
PgtRgt	3416120749908253184	05 26 20.88639 +23 17 04.43179			21.953	27.20	80.94	9.308	9.5	0.126	15.231	0	23.3	150.7
U30032	2030-09-12 17:54:22.29	05 26 41.23655 +23 17 22.98049	9.8	6.2	1.762	355.75	7.77	19.194	-8.9	13.271	15.901	15.057	181.8	87.2
PgtRgt	3416213658640686336	05 26 41.22706 +23 17 24.73779			24.531	27.65	80.90	6.871	-6.6	0.153	14.875	0	23.3	82.3
U30033	2030-09-17 14:37:44.26	05 26 55.59919 +23 17 38.76439	51.0	33.2	1.270	355.34	5.35	19.111	-9.3	14.336	18.814	17.578	226.2	91.9
PgtRgt	341621146085463040	05 26 55.59170 +23 17 40.03040			17.606	27.97	80.87	5.086	-1.8	0.164	17.382	0	23.3	22.2
U30034*	2030-10-13 22:01:31.53	05 26 40.70040 +23 17 50.97623	13.8	8.8	1.112	177.66	-7.56	18.680	8.8	10.149	12.326	11.605	89.2	117.8
PgtRgt	3416213864799115264	05 26 40.70373 +23 17 49.86481			15.068	27.62	80.90	7.273	1.0	0.630	11.270	0	23.3	34.3
U30035	2030-10-23 07:27:33.88	05 25 58.52390 +23 17 27.24882	8.8	5.6	3.660	177.24	-11.72	18.545		12.907	15.302	14.510	298.3	127.3
XRgt	3416308216640847104	05 25 58.53668 +23 17 23.59304			49.228	26.67	80.98	2.995		0.164	14.722	0	23.3	80.7

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U30036	2030-10-31 08:23:20.60	05 25 08.36455 +23 16 52.87032	19.3	12.7	4.040	177.02	-14.93	18.442		14.062	16.842	15.939	276.2	135.5
XRt	3416310480088415872	05 25 08.37980 +23 16 48.83595			54.035	25.52	81.07			0.105	16.525	0	23.3	162.3
U30037*	2030-10-31 13:48:02.11	05 25 06.78372 +23 16 51.72838	17.4	12.9	4.034	177.01	-15.02	18.439		12.272	15.854	14.804	194.8	135.8
XRt	3416310553102889856	05 25 06.79898 +23 16 47.69991			53.948	25.49	81.07			0.295	15.543	0	23.3	159.1
U30038	2030-10-31 22:46:29.38	05 25 04.14219 +23 16 49.81645	19.0	14.1	4.025	177.00	-15.15	18.435		14.074	17.047	16.112	59.8	136.1
XRt	3416310514448153728	05 25 04.15747 +23 16 45.79676			53.818	25.43	81.08			0.111	16.746	0	23.3	153.7
U30039	2030-11-09 01:05:51.70	05 24 01.18664 +23 15 56.28922	33.9	24.1	2.502	356.81	-17.91	18.346		14.259	17.999	16.953	16.7	144.5
XRgt	3416316493041644544	05 24 01.17652 +23 15 58.78757			33.295	23.95	81.19	13.586		0.117	17.879	0	23.3	47.8
U30040	2030-11-11 15:00:30.17	05 23 38.94341 +23 15 44.38851	15.2	10.7	2.845	176.75	-18.68	18.322		12.757	16.374	15.324	165.4	147.2
XRgt	3416295774119400832	05 23 38.95511 +23 15 41.54781			37.808	23.43	81.23	12.586		0.225	16.300	0	23.3	16.7
U30041	2030-11-13 02:39:01.86	05 23 25.72792 +23 15 31.77346	8.6	5.9	0.629	176.72	-19.11	18.308	6.5	11.330	15.472	14.351	349.3	148.7
PgtRgt	3416296499969956480	05 23 25.73053 +23 15 31.14589			8.347	23.11	81.25	18.896	-1.2	0.511	15.423	0	23.3	1.8
U30042	2030-11-15 01:53:36.28	05 23 07.73760 +23 15 17.34011	24.2	17.1	0.508	176.67	-19.65	18.291	6.0	13.408	17.454	16.307	358.6	150.8
PgtRgt	3416343194854408960	05 23 07.73974 +23 15 16.83257			6.744	22.68	81.28	19.525	-1.7	0.182	17.435	0	23.3	24.5
U30043	2030-11-16 19:50:14.78	05 22 51.34906 +23 15 02.96120	8.8	5.8	0.674	356.64	-20.10	18.277	0.8	12.696	15.381	14.496	87.7	152.6
PgtRgt	3416341992263575296	05 22 51.34619 +23 15 03.63396			8.933	22.28	81.31	19.831	-6.6	0.191	15.387	0	23.3	45.4
U30044	2030-11-17 09:25:23.03	05 22 45.93841 +23 15 03.16223	28.5	18.2	3.908	176.63	-20.24	18.272		13.696	17.505	16.410	243.3	153.2
XRt	3416342645098607104	05 22 45.95509 +23 14 59.26145			51.785	22.15	81.32			0.121	17.518	0	23.3	52.3
U30045	2030-11-18 21:48:15.49	05 22 31.33271 +23 14 46.73474	25.1	15.0	0.591	356.60	-20.61	18.261	1.2	14.530	17.276	16.327	56.1	154.8
PgtRgt	3416342473299924096	05 22 31.33017 +23 14 47.32488			7.830	21.79	81.34	20.403	-6.2	0.085	17.308	0	23.3	71.3
U30046	2030-11-21 00:10:41.51	05 22 10.65431 +23 14 29.18719	40.4	24.7	1.073	356.55	-21.08	18.246	-1.4	14.860	18.153	17.153	18.3	157.0
PgtRgt	3416339617145524096	05 22 10.64963 +23 14 30.25779			14.193	21.29	81.38	20.278	-7.7	0.077	18.210	0	23.3	99.0
U30047	2030-11-26 15:16:36.15	05 21 13.01769 +23 13 40.00232	18.5	12.9	1.552	356.43	-22.14	18.213	-4.5	13.384	17.169	16.021	146.0	162.9
PgtRgt	3416350994514884096	05 21 13.01069 +23 13 41.55126			20.500	19.85	81.47	20.280	-8.8	17.280	0	23.3	177.4	
U30048	2030-11-26 16:04:15.46	05 21 12.67301 +23 13 39.17041	16.4	11.5	2.087	356.43	-22.15	18.213		13.586	16.411	15.496	134.1	162.9
PRgt	3416350994513210240	05 21 12.66359 +23 13 41.25300			27.563	19.84	81.47	18.589		0.127	16.522	0	23.3	177.0
U30049	2030-11-27 09:18:01.63	05 21 05.09494 +23 13 38.79341	8.6	5.8	4.051	176.42	-22.26	18.209		12.161	15.727	14.704	234.9	163.7
XRt	3416351131953840256	05 21 05.11330 +23 13 34.75039			53.499	19.66	81.48			0.291	15.843	0	23.3	166.4
U30050	2030-11-29 15:25:12.42	05 20 41.16137 +23 13 12.41099	12.0	7.7	1.523	356.37	-22.58	18.199	-4.4	12.871	16.096	15.153	140.8	166.0
PgtRgt	3414852669403770624	05 20 41.15436 +23 13 13.93117			20.105	19.05	81.51	20.776	-8.6	0.195	16.227	0	23.2	133.3
U30051	2030-11-30 17:20:53.16	05 20 29.57530 +23 12 59.99435	16.0	10.5	3.765	356.34	-22.71	18.195		13.888	16.766	15.893	110.7	167.2
XRgt	3414853352303375744	05 20 29.55789 +23 13 03.75181			49.685	18.75	81.53	5.048		0.111	16.904	0	23.2	118.1
U30052	2030-12-04 23:08:10.54	05 19 43.43161 +23 12 22.96421	16.6	9.9	0.355	176.25	-23.13	18.181	4.6	13.495	16.439	15.530	19.5	171.7
PgtRgt	3415603189170103936	05 19 43.43329 +23 12 22.60998			4.681	17.57	81.60	23.066	-1.6	0.141	16.597	0	23.2	63.0
U30053	2030-12-07 12:29:19.55	05 19 15.29442 +23 11 54.19517	25.8	17.3	2.816	356.20	-23.30	18.176		13.480	17.466	16.343	176.6	174.4
XRgt	3415600096793660160	05 19 15.28088 +23 11 57.00448			37.115	16.84	81.64	15.881		0.177	17.631	0	23.2	31.9
U30054	2030-12-08 03:01:43.89	05 19 08.59455 +23 11 48.16447	29.3	19.8	2.699	356.19	-23.33	18.175		14.538	17.653	16.725	317.9	175.0
XRgt	3415600195576838400	05 19 08.58153 +23 11 50.85727			35.574	16.67	81.64	16.555		0.090	17.820	0	23.2	24.7
U30055	2030-12-09 14:10:27.30	05 18 52.36628 +23 11 33.74408	42.2	25.7	2.145	356.16	-23.39	18.173		13.990	18.215	16.963	149.2	176.6
PRgt	3415599443958411904	05 18 52.35585 +23 11 35.88454			28.275	16.24	81.67	19.391		18.384	0	23.2	7.3	
U30056*	2030-12-10 02:07:04.50	05 18 46.82177 +23 11 33.13075	8.7	5.4	2.375	176.15	-23.40	18.172		11.607	14.448	13.530	329.5	177.1
XRgt	3415599615757108608	05 18 46.83335 +23 11 30.76129			31.300	16.10	81.67	18.481		0.321	14.619	0	23.2	1.8
U30057	2030-12-10 09:51:55.02	05 18 43.23564 +23 11 30.22291	17.0	11.2	2.800	176.14	-23.41	18.172		13.651	16.572	15.674	213.0	177.4
XRgt	3415599684476588288	05 18 43.24931 +23 11 27.42914			36.904	16.00	81.68	16.196		0.132	16.743	0	23.2	2.9
U30058	2030-12-12 01:13:47.97	05 18 25.01556 +23 11 11.87987	53.8	32.7	1.489	176.11	-23.44	18.171	8.2	14.874	18.683	17.640	340.8	179.2
PgtRgt	3415611156331956992	05 18 25.02289 +23 11 10.39442			19.622	15.52	81.70	21.632	4.5	18.855	0	23.2	22.1	
U30059	2030-12-12 10:39:07.17	05 18 20.66817 +23 11 04.23681	23.8	16.8	2.061	356.10	-23.44	18.171		14.716	17.487	16.614	199.1	179.6
PtRgt	3415587761647395456	05 18 20.65800 +23 11 06.29284			27.159	15.40	81.71	19.781		0.087	17.659	0	23.2	26.8
U30060	2030-12-12 19:45:15.72	05 18 16.45194 +23 11 00.09025	16.1	10.8	2.237	356.09	-23.44	18.171		13.557	16.814	15.849	62.2	179.9
PRgt	3415588483201904384	05 18 16.44088 +23 11 02.32241			29.486	15.29	81.71	19.134		0.140	16.986	0	23.2	31.3

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U30061*	2030-12-15 00:52:58.71	05 17 51.83431 +23 10 38.87991	104.3	70.4	0.124	356.05	-23.42	18.171	2.2	11.903	15.009	13.963	343.0	177.7
PgtRgt	3415591128901779072	05 17 51.83370 +23 10 39.00342			1.632	14.64	81.74	23.434	-3.3	0.286	15.180	0	23.2	58.0
U30062	2030-12-18 14:29:23.44	05 17 12.33093 +23 09 57.46755	32.2	22.5	3.549	355.98	-23.29	18.175		14.989	17.867	17.003	135.2	173.9
XRgt	3415590368690214400	05 17 12.31288 +23 10 01.00754			46.780	13.58	81.79	9.342		0.067	18.032	0	23.2	103.4
U30063	2030-12-20 07:19:10.87	05 16 53.57450 +23 09 42.83516	21.3	13.2	0.077	175.94	-23.18	18.179	2.8	13.427	16.814	15.817	241.0	172.1
PgtRgt	3415631535954148864	05 16 53.57489 +23 09 42.75824			1.017	13.07	81.81	23.194	-2.2	0.153	16.974	0	23.2	126.7
U30064	2030-12-27 05:28:00.50	05 15 38.69364 +23 08 27.60933	9.8	6.2	0.739	355.81	-22.41	18.202	-1.1	13.331	15.735	14.964	261.6	164.8
PgtRgt	3415540448287688448	05 15 38.68973 +23 08 28.34662			9.759	11.02	81.89	22.012	-5.2	0.126	15.859	0	23.2	129.6
U30065	2030-12-28 00:50:36.09	05 15 30.15465 +23 08 18.87393	14.5	9.8	0.835	355.80	-22.29	18.206	-1.6	14.820	16.638	16.036	330.1	163.9
PgtRgt	3415552126301821696	05 15 30.15022 +23 08 19.70665			11.025	10.78	81.90	21.777	-5.5	0.057	16.756	0	23.2	117.9
U30066	2030-12-28 11:57:58.83	05 15 25.28805 +23 08 11.48269	38.9	26.6	3.281	355.79	-22.22	18.208		14.728	18.262	17.230	162.8	163.4
XRgt	3415551954503127808	05 15 25.27058 +23 08 14.75527			43.333	10.64	81.91	11.747		0.084	18.376	0	23.2	111.3
U31001	2031-01-04 20:27:56.81	05 14 10.40542 +23 06 58.91289	24.9	17.0	1.399	175.66	-20.79	18.251	7.3	14.069	17.779	16.678	27.8	155.6
PgtRgt	3415549102644822784	05 14 10.41309 +23 06 57.51814			18.515	8.55	81.97	19.357	4.7	0.123	17.821	0	23.1	18.0
U31002*	2031-01-08 07:49:21.80	05 13 37.06207 +23 06 20.15694	23.8	16.8	2.199	355.60	-19.95	18.277		14.439	16.187	15.546	213.9	152.0
PRgt	3415735783400056704	05 13 37.04986 +23 06 22.34977			29.153	7.61	82.00	16.385		0.065	16.184	0	23.1	23.4
U31003 ^d	2031-01-14 02:48:24.85	05 12 44.88510 +23 05 22.68359	80.7	52.3	3.817	355.52	-18.32	18.327		14.868	18.715	283.2	283.2	145.9
XRt	3415715786030349952	05 12 44.86351 +23 05 26.48866			50.732	6.12	82.04	2.132		0.075	18.620	0	23.1	94.7
U31004 ^d	2031-01-14 02:49:19.28	05 12 44.87615 +23 05 23.29995	40.6	24.1	3.193	355.52	-18.32	18.327		14.868	18.253	16.840	282.9	145.9
XRgt	3415715781736419968	05 12 44.85809 +23 05 26.48280			42.436	6.12	82.04	10.194		0.075	18.158	0	23.1	94.7
U31005	2031-01-15 05:05:48.43	05 12 35.52369 +23 05 16.80765	20.3	13.4	0.422	175.51	-17.99	18.338	3.3	14.762	17.236	16.438	247.7	144.7
PgtRgt	3415727468343213952	05 12 35.52608 +23 05 16.38698			5.612	5.85	82.05	17.891	0.3	0.077	17.121	0	23.1	109.0
U31006	2031-01-17 10:02:59.59	05 12 17.25496 +23 05 00.23234	10.8	7.4	3.688	175.48	-17.28	18.360		13.591	16.078	15.290	171.2	142.4
XRgt	3415726162673168256	05 12 17.27600 +23 04 56.55568			49.110	5.32	82.06	4.755		0.130	15.919	0	23.1	138.8
U31007	2031-01-17 20:39:01.09	05 12 13.69695 +23 04 55.79204	7.8	5.3	3.129	175.48	-17.13	18.364		13.212	15.284	14.590	11.7	141.9
XRgt	3415726124017657984	05 12 13.71482 +23 04 52.67285			41.675	5.22	82.06	9.770		0.141	15.116	0	23.1	145.0
U31008	2031-01-19 16:23:30.26	05 11 59.34070 +23 04 39.78016	17.1	11.7	2.815	175.46	-16.51	18.384		14.731	16.826	16.148	73.7	140.0
XRgt	3415726643709520768	05 11 59.35685 +23 04 36.97408			37.532	4.81	82.07	11.188		0.071	16.618	0	23.1	171.2
U31009	2031-01-19 19:21:18.60	05 11 58.38309 +23 04 39.57657	13.3	8.8	3.658	175.46	-16.46	18.385		14.488	16.292	15.665	29.1	139.9
XRgt	3415726643709521664	05 11 58.40409 +23 04 35.93001			48.777	4.78	82.07	4.216		0.073	16.080	0	23.1	173.0
U31010	2031-01-21 07:44:27.84	05 11 46.91636 +23 04 23.50038	13.2	8.4	0.183	175.44	-15.92	18.402	2.1	13.313	16.219	15.351	201.8	138.3
PgtRgt	3415723757491506688	05 11 46.91741 +23 04 23.31796			2.442	4.45	82.08	15.921	-0.5	0.167	15.972	0	23.1	164.2
U31011	2031-01-21 12:46:01.46	05 11 45.34410 +23 04 24.69461	24.5	15.9	3.098	175.44	-15.85	18.404		14.961	17.475	16.662	126.2	138.1
XRgt	3415723753195695744	05 11 45.36195 +23 04 21.60635			41.353	4.40	82.08	9.261		0.070	17.223	0	23.1	161.1
U31012	2031-01-22 03:39:10.68	05 11 40.81470 +23 04 14.07508	4.4	2.9	2.515	355.43	-15.62	18.411		11.753	13.700	13.040	262.3	137.4
XRgt	3415723791851252608	05 11 40.80019 +23 04 16.58164			33.577	4.27	82.08	11.766		0.279	13.431	0	23.1	151.7
U31013	2031-01-22 14:58:19.84	05 11 37.39614 +23 04 09.50761	5.2	3.3	3.309	355.43	-15.44	18.417		11.534	14.370	13.522	92.0	136.9
XRgt	3415723894930471808	05 11 37.37703 +23 04 12.80636			44.203	4.17	82.08	7.704		0.366	14.089	0	23.1	144.6
U31014	2031-01-23 03:39:51.92	05 11 33.60253 +23 04 05.76379	19.9	12.7	2.866	355.42	-15.25	18.423		14.443	17.176	16.323	261.1	136.4
XRgt	3415723860570736896	05 11 33.58596 +23 04 08.62048			38.292	4.06	82.09	9.930		0.096	16.882	0	23.1	136.7
U31015	2031-01-23 06:52:47.34	05 11 32.61374 +23 04 10.98164	11.1	6.7	3.425	175.42	-15.20	18.424		13.959	15.944	15.290	212.7	136.2
XRgt	3415723929290214144	05 11 32.63355 +23 04 07.56805			45.761	4.03	82.09	6.652		0.099	15.646	0	23.1	134.7
U31016	2031-01-28 19:11:31.29	05 10 56.35353 +23 03 26.01776	26.2	16.0	1.234	355.38	-13.01	18.492	-4.5	14.806	17.538	16.733	22.5	130.5
PgtRgt	3415769829603416576	05 10 56.34632 +23 03 27.24764			16.549	2.98	82.11	12.306	-6.2	0.069	17.071	0	23.1	57.9
U31017	2031-02-04 22:15:40.83	05 10 18.32777 +23 02 43.69905	5.2	3.4	0.969	355.36	-9.94	18.589	-3.4	10.872	12.120	11.690	329.2	123.1
PgtRgt	3415395205375892864	05 10 18.32212 +23 02 44.66496			13.066	1.87	82.13	9.622	-5.0	0.362	11.360	0	23.1	28.0
U31018	2031-02-04 23:11:42.60	05 10 18.13164 +23 02 46.45229	6.8	4.4	1.994	175.36	-9.92	18.589		13.064	14.867	14.207	315.2	123.1
PtRgt	3415398160315795328	05 10 18.14334 +23 02 44.46461			26.887	1.86	82.13	8.425			14.106	0	23.1	28.4
U31019	2031-02-05 23:25:28.51	05 10 13.61374 +23 02 39.87763	17.3	10.9	0.486	175.36	-9.47	18.604	3.0	13.438	16.821	15.819	310.7	122.0
PgtRgt	3415398125956056832	05 10 13.61658 +23 02 39.39326			6.557	1.73	82.13	9.415	1.2		16.009	0	23.1	40.6

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U31020	2031-02-06 00:56:51.64	05 10 13.32866 +23 02 40.88249	12.3	7.7	1.806	175.36	-9.44	18.605	8.2	13.507	16.097	15.300	287.8	122.0
PgtRgt	3415398130250812800	05 10 13.33924 +23 02 39.08271			24.365	1.72	82.13	8.303	7.8		15.281	0	23.1	41.4
U31021	2031-02-06 15:49:35.19	05 10 10.67380 +23 02 36.31436	25.1	16.0	0.214	175.37	-9.16	18.614	1.8	13.941	17.516	16.481	64.0	121.3
PgtRgt	3415397816716507904	05 10 10.67506 +23 02 36.10061			2.895	1.65	82.13	9.171	0.0	0.146	16.668	0	23.1	48.9
U31022	2031-02-10 21:06:22.04	05 09 54.76223 +23 02 14.55950	23.5	15.1	3.779	355.41	-7.20	18.676		14.719	17.202	16.449	340.6	117.0
XRt	3415398675709960448	05 09 54.74032 +23 02 18.32653			51.189	1.18	82.13			0.076	16.093	0	23.1	102.3
U31023	2031-02-15 02:09:08.50	05 09 42.75173 +23 02 04.09133	10.6	7.2	1.057	355.51	-5.18	18.741	-4.0	4.194	9.526	8.105	260.7	112.7
PgtRgt	3415397339976857728	05 09 42.74577 +23 02 05.14505			14.367	0.83	82.14	5.016	-5.3		8.059	0	23.1	159.1
U31024	2031-02-21 13:09:40.70	05 09 32.14297 +23 01 56.30531	47.2	30.9	2.182	176.17	-1.96	18.844		14.674	18.469	17.314	89.2	106.1
PtRgt	3415408747410005632	05 09 32.15352 +23 01 54.12777			29.826	0.52	82.14	1.683			15.947	0	23.1	107.5
U31025	2031-03-01 05:13:41.12	05 09 32.14296 +23 01 56.30520	47.6	31.1	0.343	173.95	1.97	18.970	0.6	14.674	18.469	17.314	200.6	98.4
PgtRgt	3415408747410005632	05 09 32.14558 +23 01 55.96388			4.722	0.51	82.14	2.113	2.4		15.955	0	23.1	7.9
U31026	2031-03-09 12:33:38.27	05 09 47.53598 +23 02 16.32304	17.6	11.0	0.054	354.70	6.24	19.111	-1.1	14.026	16.610	15.780	82.5	90.2
PgtRgt	3415397236897636736	05 09 47.53562 +23 02 16.37721			0.754	0.97	82.14	6.290	0.7	0.111	15.346	0	23.1	93.9
U31027	2031-03-19 14:54:48.33	05 10 27.36874 +23 03 04.35983	26.7	15.7	1.798	354.91	11.37	19.281		13.034	17.258	15.969	37.4	80.2
PtRgt	3415395278392515968	05 10 27.35720 +23 03 06.15041			25.138	2.13	82.12	9.913		0.245	16.645	0	23.1	125.9
U31028	2031-03-21 16:42:33.23	05 10 38.36263 +23 03 16.54966	26.7	16.1	3.057	354.95	12.40	19.315		14.633	17.425	16.635	8.5	78.2
XRgt	3415770345001699840	05 10 38.34312 +23 03 19.59520			42.831	2.45	82.11	6.620		0.076	16.907	0	23.1	96.9
U31029	2031-03-21 17:03:04.45	05 10 38.41446 +23 03 20.84052	8.9	5.4	1.154	174.95	12.41	19.315	4.4	13.149	15.254	14.570	3.3	78.2
PgtRgt	3415770349296796928	05 10 38.42182 +23 03 19.69119			16.164	2.46	82.11	11.796	6.1	0.159	14.736	0	23.1	96.7
U31030	2031-03-26 16:57:35.43	05 11 08.70064 +23 03 55.77073	38.3	25.6	0.543	355.03	14.86	19.398	-3.6	13.427	17.668	16.293	359.9	73.4
PgtRgt	3415723001575593472	05 11 08.69723 +23 03 56.31153			7.637	3.34	82.10	14.715	-1.3		17.346	0	23.1	30.9
U31031	2031-03-28 18:16:12.87	05 11 22.68440 +23 04 10.89165	18.0	11.3	2.155	355.06	15.84	19.431		14.097	16.690	15.880	338.3	71.4
XRgt	3415724272887605376	05 11 22.67094 +23 04 13.03815			30.362	3.74	82.09	12.658		0.108	16.437	0	23.1	6.1
U31032	2031-03-31 12:22:43.63	05 11 42.77839 +23 04 33.33582	22.9	13.2	3.591	355.09	17.14	19.474		14.731	17.001	16.211	64.0	68.7
XRt	3415723787555438208	05 11 42.75614 +23 04 36.91318			50.713	4.32	82.08	0.091		0.073	16.834	0	23.1	26.9
U31033	2031-04-01 05:33:55.60	05 11 48.21314 +23 04 45.55278	54.3	34.0	2.177	175.11	17.47	19.486		14.749	18.596	17.410	165.5	68.1
XRgt	3415723753197480448	05 11 48.22660 +23 04 43.38345			30.770	4.48	82.07	13.932			18.449	0	23.1	35.3
U31034	2031-04-02 13:30:03.60	05 11 58.65396 +23 04 56.61617	15.9	10.9	0.936	175.13	18.08	19.507	3.1	14.457	16.383	15.768	45.2	66.8
PgtRgt	3415726746788735488	05 11 58.65972 +23 04 55.68330			13.246	4.78	82.07	17.457	5.5	0.082	16.273	0	23.1	51.3
U31035	2031-04-04 21:50:32.53	05 12 17.89312 +23 05 19.86962	24.9	15.8	1.634	175.16	19.13	19.543	7.0	13.825	17.254	16.261	277.9	64.5
PgtRgt	3415726158377405568	05 12 17.90311 +23 05 18.24152			23.159	5.34	82.05	17.040	8.1	0.158	17.206	0	23.1	80.6
U31036	2031-04-06 21:35:40.46	05 12 35.04350 +23 05 36.30246	19.6	12.9	1.892	355.19	20.01	19.573		14.367	16.915	16.124	279.7	62.7
PtRgt	3415727468343212800	05 12 35.03200 +23 05 38.18814			26.863	5.83	82.04	17.010		0.098	16.916	0	23.1	106.8
U31037	2031-04-09 05:59:52.02	05 12 56.23074 +23 05 58.97588	12.2	7.0	3.715	355.23	21.02	19.608		13.662	15.795	15.087	151.4	60.4
XRt	3415715923471293440	05 12 56.20833 +23 06 02.67801			52.831	6.44	82.03				15.849	0	23.1	139.4
U31038	2031-04-09 06:04:14.19	05 12 56.23116 +23 06 03.56367	29.3	17.0	0.856	175.23	21.02	19.608	2.5	14.933	17.531	16.728	150.3	60.4
PgtRgt	3415715919175995008	05 12 56.23633 +23 06 02.71026			12.179	6.44	82.03	20.427	5.4	0.074	17.585	0	23.1	139.4
U31039	2031-04-13 23:48:14.25	05 13 41.95945 +23 06 53.05479	19.4	14.4	1.872	355.31	23.00	19.676		14.222	16.708	15.916	239.9	55.9
PRgt	3415735847823663104	05 13 41.94835 +23 06 54.92023			26.710	7.74	81.99	19.595		0.095	16.860	0	23.1	152.9
U31040	2031-04-19 02:23:22.61	05 14 35.52103 +23 07 54.54431	8.0	5.8	0.421	355.40	25.02	19.745	-3.9	13.303	15.466	14.735	196.3	51.2
PgtRgt	3415554192182895104	05 14 35.51858 +23 07 54.96357			6.024	9.25	81.94	24.861	0.0	0.134	15.709	0	23.2	82.7
U31041	2031-04-19 03:58:54.91	05 14 36.26270 +23 07 52.30658	6.9	4.9	3.471	355.40	25.04	19.746		13.230	15.085	14.453	172.3	51.1
XRgt	3415554192182894592	05 14 36.24253 +23 07 55.76657			49.712	9.27	81.94	4.892		0.130	15.329	0	23.2	81.8
U31042*	2031-08-04 03:30:38.41	05 39 44.89635 +23 28 31.48007	7.3	4.1	2.683	357.70	27.11	19.805		12.020	13.953	13.313	80.2	45.8
XRgt	3404410470036502656	05 39 44.88853 +23 28 34.16090			38.539	42.26	79.02	17.938			14.283	0	23.5	118.9
U31043	2031-08-04 05:06:42.09	05 39 45.67025 +23 28 37.29139	40.7	23.6	2.697	47.26	77.08	19.804		13.629	17.810	16.508	56.2	45.9
XRgt	3404410465739479168	05 39 45.67811 +23 28 34.59660			38.738	42.27	79.02	17.781			18.140	0	23.5	117.9
U31044	2031-08-06 10:46:57.05	05 40 11.78504 +23 28 48.06683	3.8	2.1	0.830	357.74	26.32	19.776	-11.1	10.176	12.730	11.951	329.0	47.9
PgtRgt	3404409812904057216	05 40 11.78269 +23 28 48.89603			11.907	42.68	78.95	25.834	3.4	0.700	13.028	0	23.5	85.7

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U31045*	2031-08-20 07:43:32.31	05 42 36.36675 +23 30 08.76896	29.4	17.6	3.809	177.87	20.94	19.584		13.639	17.241	16.156	1.8	60.7
XRt	3428371164869628160	05 42 36.37705 +23 30 04.96232			54.106	44.85	78.55			0.166	17.291	0	23.5	84.9
U31046	2031-08-21 07:59:38.52	05 42 45.63324 +23 30 12.62634	24.0	13.6	2.930	177.87	20.51	19.569		14.401	17.559	16.604	356.8	61.6
XRgt	3428371332369303552	05 42 45.64115 +23 30 09.69876			41.579	44.98	78.52	11.822		0.103	17.587	0	23.5	97.5
U31047	2031-08-22 17:57:22.12	05 42 58.28543 +23 30 19.06195	23.9	12.8	2.911	177.88	19.90	19.547		14.083	17.229	16.267	206.0	62.9
XRgt	3428370615113789824	05 42 58.29326 +23 30 16.15301			41.269	45.17	78.49	11.623		0.123	17.224	0	23.5	115.5
U31048	2031-08-27 00:57:22.87	05 43 34.38890 +23 30 31.68805	4.6	2.7	2.823	357.89	18.01	19.481		11.925	13.759	13.148	96.9	66.9
XRgt	3428369206364469632	05 43 34.38133 +23 30 34.50953			39.892	45.68	78.39	11.383		0.258	13.645	0	23.5	172.9
U31049	2031-08-27 17:21:27.83	05 43 39.80659 +23 30 36.47883	17.7	9.9	0.787	357.88	17.70	19.470	-11.7	14.283	16.781	16.010	210.3	67.6
PgtRgt	3428368480511030016	05 43 39.80448 +23 30 37.26534			11.114	45.76	78.37	17.489	4.5	0.095	16.648	0	23.5	175.6
U31050	2031-08-27 19:21:09.62	05 43 40.46561 +23 30 34.74712	25.4	13.6	2.852	357.89	17.67	19.469		13.489	17.247	16.056	180.3	67.6
XRgt	3428368484809955584	05 43 40.45796 +23 30 37.59742			40.274	45.77	78.37	10.992		0.203	17.113	0	23.5	174.7
U31051	2031-08-30 12:45:31.69	05 44 01.14291 +23 30 46.29007	31.6	18.4	1.823	357.88	16.43	19.425		14.521	17.780	16.825	276.6	70.2
PtRgt	3427623561383489920	05 44 01.13801 +23 30 48.11189			25.684	46.06	78.31	14.352		0.098	17.566	0	23.5	135.4
U31052	2031-08-31 13:02:10.09	05 44 08.44391 +23 30 51.33551	6.1	4.2	0.499	357.88	15.97	19.409	-11.0	12.628	14.535	13.902	271.5	71.1
PgtRgt	3427623909278215808	05 44 08.44256 +23 30 51.83401			7.022	46.16	78.29	16.021	6.5	0.183	14.290	0	23.5	120.5
U31053	2031-08-31 20:57:46.89	05 44 10.77857 +23 30 54.89702	25.4	16.5	1.869	177.87	15.82	19.404		14.723	17.238	16.450	152.2	71.5
PRgt	3427623698822450944	05 44 10.78361 +23 30 53.02882			26.309	46.19	78.28	13.691		0.081	16.984	0	23.5	115.6
U31054	2031-09-08 17:48:15.95	05 44 59.98557 +23 31 18.03960	28.1	17.4	0.551	357.77	12.10	19.274	-11.4	13.720	16.978	16.038	192.1	78.9
PgtRgt	3427621568518704128	05 44 59.98401 +23 31 18.59007			7.701	46.87	78.14	12.129	6.4	0.141	16.432	0	23.5	10.6
U31055*	2031-09-09 03:25:40.91	05 45 02.14615 +23 31 19.54458	18.5	11.8	0.205	357.76	11.91	19.267	-10.2	10.015	11.532	10.964	47.3	79.3
PgtRgt	3427621572816169472	05 45 02.14560 +23 31 19.74884			2.860	46.90	78.14	12.061	8.4	0.616	10.969	0	23.5	6.2
U31056	2031-09-13 07:57:20.34	05 45 22.66528 +23 31 27.82011	92.0	61.8	3.239	357.63	9.85	19.196		14.940	18.969	17.821	335.4	83.3
XRgt	3427644108507075584	05 45 22.65555 +23 31 31.05619			45.093	47.17	78.08	4.682		18.201	0	23.5	44.4	
U31057	2031-09-13 12:09:08.09	05 45 23.43260 +23 31 30.21568	26.0	16.0	1.283	357.62	9.76	19.193	-12.4	13.984	17.337	16.352	272.2	83.4
PgtRgt	3427644112804524160	05 45 23.42873 +23 31 31.49711			17.853	47.19	78.07	9.286	1.1	0.126	16.558	0	23.5	46.4
U31058	2031-09-13 22:09:02.12	05 45 25.24372 +23 31 32.53565	18.9	11.6	0.002	357.61	9.56	19.186	-9.5	14.257	16.747	15.959	121.9	83.8
PgtRgt	3427644486464199680	05 45 25.24372 +23 31 32.53778			0.030	47.21	78.07	9.711	9.5	15.945	0	23.5	51.4	
U31059	2031-09-22 20:18:49.86	05 45 54.82252 +23 31 50.52015	22.2	13.8	1.022	356.79	5.08	19.034	-12.5	14.872	17.300	16.540	140.8	92.4
PgtRgt	3427633353915848320	05 45 54.81836 +23 31 51.54007			14.102	47.60	77.98	4.999	3.7	15.811	0	23.5	166.6	
U31060	2031-09-22 22:56:23.17	05 45 55.07827 +23 31 49.57406	38.8	24.4	2.164	356.77	5.02	19.032		14.894	18.315	17.505	101.3	92.5
PtRgt	3427633353911711872	05 45 55.06941 +23 31 51.73448			29.868	47.60	77.98	4.139		16.814	0	23.5	168.0	
U31061	2031-10-09 12:20:10.31	05 46 01.61216 +23 32 08.28032	5.3	3.3	2.244	1.40	-3.24	18.754		10.546	11.025	10.829	244.0	108.8
XRgt	3427633186407691008	05 46 01.61619 +23 32 10.52374			30.528	47.68	77.96	2.654		0.378	9.047	0	23.5	30.7
U31062	2031-10-13 17:46:56.18	05 45 53.27689 +23 32 14.98321	6.4	3.7	3.018	180.31	-5.29	18.687		13.140	14.711	14.172	158.1	113.0
XRgt	3427633426926872064	05 45 53.27572 +23 32 11.96500			40.906	47.56	77.98	3.209		0.130	13.266	0	23.5	81.8
U31063	2031-10-16 01:08:13.00	05 45 47.02721 +23 32 11.07915	11.4	6.9	1.088	360.00	-6.39	18.651	2.7	13.798	16.103	15.341	45.5	115.3
PgtRgt	3427634045401162112	05 45 47.02720 +23 32 12.16716			14.717	47.47	78.00	6.221	-12.5	14.864	0	23.5	111.6	
U31064	2031-10-16 15:14:30.30	05 45 45.24510 +23 32 14.55536	20.6	12.8	2.403	179.94	-6.67	18.642		13.942	17.206	16.223	193.3	115.9
XRgt	3427634041103770624	05 45 45.24529 +23 32 12.15213			32.492	47.45	78.00	5.214		0.116	16.013	0	23.5	119.4
U31065	2031-10-19 11:17:01.11	05 45 35.57712 +23 32 15.10550	10.3	6.3	3.421	179.69	-7.99	18.599		11.800	15.493	14.471	249.9	118.7
XRgt	3427632808450590592	05 45 35.57847 +23 32 11.68417			46.151	47.32	78.03	3.456		0.379	14.496	0	23.5	158.2
U31066	2031-10-20 01:20:52.71	05 45 33.36178 +23 32 10.36371	10.0	6.1	1.141	359.64	-8.26	18.590	2.3	13.607	15.470	14.841	38.3	119.3
PgtRgt	3427632872872654848	05 45 33.36126 +23 32 11.50428			15.378	47.29	78.04	7.997	-12.5	0.109	14.509	0	23.5	166.3

^a A nearby event has the same 2MASS ID as this event, resulting in a corresponding K magnitude ambiguity.

* Superscript * indicates RUWE > 1.4, ** indicates RUWE > 2, and *** indicates RUWE > 5. See machine-readable file for RUWE values.

Table 3. Geocentric Uranus Occultation Predictions 2023–2050 for $K \leq 15$ (part 3 of 7)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U31067	2031-10-20 12:03:35.98	05 45 31.62119 +23 32 14.38929	8.4	5.1	3.042	179.61	-8.46	18.583		13.075	15.098	14.436	237.2	119.8
XRgt	3427632877170068864	05 45 31.62269 +23 32 11.34771			40.995	47.26	78.04	4.996		0.143	14.164	0	23.5	172.2
U31068	2031-10-23 20:12:54.02	05 45 17.26439 +23 32 08.85623	56.8	35.9	0.781	359.41	-9.95	18.534	4.9	14.614	18.103	17.096	111.5	123.2
PgtRgt	3427644383385003648	05 45 17.26381 +23 32 09.63751			10.503	47.06	78.08	9.877	-11.9		17.345	0	23.5	139.6
U31069	2031-10-27 03:18:42.74	05 45 00.81207 +23 32 07.70421	67.4	41.8	0.699	179.26	-11.37	18.488	11.6	14.980	18.400	17.421	1.8	126.5
PgtRgt	3427645104939508352	05 45 00.81272 +23 32 07.00539			9.371	46.83	78.13	11.333	-5.4		17.787	0	23.5	93.4
U31070	2031-10-28 11:07:18.65	05 44 53.57171 +23 32 08.61654	33.8	20.7	2.941	179.21	-11.93	18.470		14.675	17.631	16.727	243.3	127.8
XRgt	3427621809036892672	05 44 53.57465 +23 32 05.67561			39.400	46.73	78.15	7.515		0.087	17.070	0	23.5	75.2
U31071	2031-10-30 08:38:11.12	05 44 42.61221 +23 32 03.18319	20.3	13.2	0.319	359.14	-12.71	18.445	7.5	14.371	16.634	15.946	278.6	129.8
PgtRgt	3427624695254913360	05 44 42.61186 +23 32 03.50180			4.263	46.58	78.18	12.828	-10.4	0.086	16.142	0	23.5	49.7
U31072	2031-10-31 18:04:04.53	05 44 34.11381 +23 32 00.39343	54.7	35.5	1.306	359.09	-13.27	18.427	0.9	14.708	18.362	17.319	135.8	131.2
PgtRgt	3427624592175693056	05 44 34.11231 +23 32 01.69899			17.450	46.46	78.21	12.607	-12.3		17.916	0	23.5	31.6
U31073	2031-11-03 01:49:42.32	05 44 19.11345 +23 31 56.37621	43.6	27.4	1.930	359.02	-14.18	18.397		14.864	18.119	17.167	17.0	133.6
PtRgt	3427625245010716160	05 44 19.11106 +23 31 58.30545			25.746	46.25	78.25	12.374		0.079	17.745	0	23.5	4.1
U31074*	2031-11-04 23:15:32.00	05 44 06.13936 +23 31 58.62850	119.6	77.5	3.454	178.97	-14.90	18.374		14.524	18.537	17.163	53.6	135.5
XRgt	3427623977998780672	05 44 06.14388 +23 31 55.17529			46.026	46.07	78.28	6.525		0.098	18.218	0	23.5	20.8
U31075	2031-11-07 03:28:25.81	05 43 50.43864 +23 31 50.90028	9.2	5.4	0.267	358.91	-15.70	18.349	7.6	11.716	15.360	14.337	348.2	137.8
PgtRgt	3428374429044668800	05 43 50.43827 +23 31 51.16699			3.550	45.84	78.33	15.856	-10.0	0.388	15.097	0	23.5	46.4
U31076	2031-11-07 23:58:35.44	05 43 44.04296 +23 31 49.25118	23.3	13.8	0.220	358.88	-16.01	18.339	7.8	13.620	17.347	16.303	39.8	138.7
PgtRgt	3428374394684939648	05 43 44.04265 +23 31 49.47148			2.931	45.75	78.35	16.175	-9.8	0.166	17.106	0	23.5	56.6
U31077*	2031-11-08 08:12:35.44	05 43 41.43295 +23 31 52.81830	166.0	100.7	4.048	178.88	-16.13	18.335		14.729	18.554	17.190	275.9	139.0
XRt	3428375111940560384	05 43 41.43872 +23 31 48.77150			53.824	45.71	78.35				18.320	0	23.5	60.7
U31078	2031-11-14 18:42:13.72	05 42 48.96877 +23 31 32.44549	33.3	20.1	1.126	358.71	-18.27	18.267	2.2	14.570	18.204	17.192	112.0	145.7
PgtRgt	3428371469808281856	05 42 48.96693 +23 31 33.57102			14.916	44.95	78.50	17.664	-11.9	0.094	18.105	0	23.5	144.3
U31079	2031-11-14 22:16:00.11	05 42 47.68121 +23 31 32.33861	34.4	20.4	0.835	358.71	-18.31	18.266	4.2	14.362	18.164	16.988	58.4	145.8
PgtRgt	3428371469808281344	05 42 47.67984 +23 31 33.17318			11.059	44.93	78.50	18.077	-11.5	0.101	18.068	0	23.5	146.4
U31080	2031-11-15 05:52:50.88	05 42 44.91488 +23 31 34.36052	21.0		2.045	178.70	-18.41	18.263		14.732	17.404	16.574	303.8	146.2
PtRgt	3428371572887497344	05 42 44.91825 +23 31 32.31570			27.092	44.89	78.51	15.757		0.076	17.314	0	23.5	150.9
U31081	2031-11-16 09:09:47.79	05 42 34.89606 +23 31 32.53602	21.7	12.5	3.375	178.68	-18.75	18.252		13.634	17.234	16.094	253.4	147.4
XRgt	3428383362576743296	05 42 34.90173 +23 31 29.16184			44.679	44.74	78.54	9.138			17.164	0	23.5	167.0
U31082	2031-11-17 02:38:12.12	05 42 28.38875 +23 31 27.15768	10.7	5.7	0.083	178.65	-18.96	18.246	8.9	11.754	15.982	14.838	350.6	148.1
PgtRgt	3428383018979444480	05 42 28.38889 +23 31 27.07422			1.105	44.65	78.56	19.161	-8.2	0.466	15.924	0	23.5	176.1
U31083	2031-11-19 22:52:44.81	05 42 02.25174 +23 31 21.14242	49.8	29.3	2.723	178.59	-19.73	18.221		14.817	18.857	17.739	44.0	151.1
XRgt	3404364836007788032	05 42 02.25662 +23 31 18.42045			35.982	44.26	78.63	14.131			18.843	0	23.5	140.6
U31084	2031-11-21 16:53:20.01	05 41 45.65340 +23 31 10.14334	38.4	23.7	2.553	358.54	-20.18	18.207		14.841	18.285	17.226	132.1	152.9
XRgt	3404367481707638656	05 41 45.64868 +23 31 12.69540			33.710	44.01	78.67	15.274			18.294	0	23.5	115.8
U31085***	2031-11-22 01:23:21.11	05 41 42.23517 +23 31 15.45571	22.9	13.6	3.956	178.53	-20.26	18.204		10.763	12.996	11.885	4.2	153.3
XRt	3404367589083826304	05 41 42.24256 +23 31 11.50012			52.236	43.96	78.68				13.010	0	23.5	110.9
U31086	2031-11-23 09:36:59.09	05 41 29.19406 +23 31 07.38274	43.9	26.6	0.526	178.50	-20.58	18.194	10.3	14.787	18.571	17.449	239.4	154.7
PgtRgt	3404366897592084352	05 41 29.19506 +23 31 06.85689			6.941	43.76	78.72	20.597	-5.8		18.602	0	23.5	92.3
U31087	2031-11-23 13:43:15.73	05 41 27.51973 +23 31 05.54780	40.2	24.8	0.705	358.50	-20.62	18.192	4.7	14.570	18.392	17.304	177.7	154.9
PgtRgt	3404366863232345216	05 41 27.51838 +23 31 06.25293			9.307	43.74	78.72	20.481	-10.9		18.425	0	23.5	90.0
U31088	2031-11-23 16:40:13.80	05 41 26.31780 +23 31 05.54282	39.8	24.2	3.275	358.49	-20.65	18.192		14.528	18.447	17.335	133.3	155.0
XRgt	3404366863232344064	05 41 26.31154 +23 31 05.81719			43.216	43.72	78.72	10.687			18.482	0	23.5	88.3
U31089	2031-11-26 01:29:36.37	05 41 02.73872 +23 30 58.00451	4.6	2.6	0.869	178.44	-21.16	18.175	11.2	9.766	11.574	10.959	358.5	157.5
PgtRgt	3404413665492320896	05 41 02.74047 +23 30 57.13525			11.459	43.36	78.79	20.814	-3.7	0.677	11.635	0	23.5	56.7
U31090	2031-11-27 13:15:30.41	05 40 47.59962 +23 30 55.55084	33.8	19.7	4.154	178.40	-21.46	18.166		13.621	17.877	16.706	180.5	159.0
XRt	3404408679033933696	05 40 47.60803 +23 30 51.39871			54.726	43.13	78.83			0.174	17.953	0	23.5	37.4

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U31091	2031-11-30 17:35:15.34	05 40 14.61114 +23 30 42.60836	19.4	12.1	4.145	178.33	-22.03	18.147		13.605	17.260	16.185	112.3	162.4
XRt	3404411535188380032	05 40 14.61991 +23 30 38.46558			54.550	42.62	78.92			0.162	17.365	0	23.5	4.2
U31092	2031-12-02 09:34:15.28	05 39 56.99915 +23 30 31.76049	59.4	36.9	0.437	178.29	-22.30	18.139	9.7	14.128	18.843	17.621	230.9	164.1
PgtRgt	3404410809336902656	05 39 57.00009 +23 30 31.32336			5.753	42.34	78.96	22.356	-5.9		18.961	0	23.5	22.9
U31093	2031-12-02 17:05:38.67	05 39 53.66010 +23 30 30.38576	64.4	39.0	0.435	178.29	-22.34	18.138	9.7	14.943	18.816	17.712	117.7	164.5
PgtRgt	3404410981135593728	05 39 53.66105 +23 30 29.95140			5.717	42.29	78.97	22.407	-5.9		18.936	0	23.5	26.6
U31094	2031-12-02 20:27:27.03	05 39 52.16756 +23 30 28.58124	58.0	34.8	0.754	358.28	-22.36	18.137	4.1	14.173	18.645	17.464	67.1	164.6
PgtRgt	3404410981135593088	05 39 52.16591 +23 30 29.33521			9.922	42.26	78.98	22.140	-10.6		18.766	0	23.5	28.2
U31095	2031-12-04 14:24:25.75	05 39 33.41151 +23 30 17.56499	47.0	28.5	3.944	358.24	-22.60	18.129		14.570	18.314	17.239	156.1	166.5
XRt	3404422319849250688	05 39 33.40271 +23 30 21.50709			51.858	41.97	79.03				18.447	0	23.5	48.9
U31096	2031-12-04 18:05:26.47	05 39 31.73912 +23 30 23.61365	70.0	40.8	2.808	178.24	-22.62	18.129		14.987	18.879	17.790	100.6	166.6
XRgt	3404422526007683072	05 39 31.74539 +23 30 20.80718			36.918	41.94	79.03	15.615			19.013	0	23.5	50.7
U31097	2031-12-05 16:38:21.66	05 39 21.57494 +23 30 13.43642	29.1	18.0	3.045	358.22	-22.74	18.125		13.614	17.556	16.420	121.4	167.6
XRgt	3404399096963109632	05 39 21.56806 +23 30 16.47987			40.027	41.78	79.06	14.207		0.167	17.695	0	23.5	61.8
U31098	2031-12-06 04:57:35.61	05 39 15.99041 +23 30 11.61937	38.5	23.4	2.467	358.21	-22.80	18.123		14.866	18.083	17.047	296.1	168.2
XRgt	3404399818517617920	05 39 15.98480 +23 30 14.08480			32.422	41.69	79.07	17.763			18.225	0	23.5	68.0
U31099	2031-12-07 01:12:22.89	05 39 06.78499 +23 30 06.82591	25.9	15.9	3.277	358.19	-22.90	18.120		14.413	17.532	16.631	351.5	169.1
XRgt	3404399608062184320	05 39 06.77746 +23 30 10.10175			43.073	41.54	79.10	12.405		0.103	17.679	0	23.5	78.1
U31100	2031-12-07 17:07:45.29	05 38 59.51307 +23 30 05.49203	47.4	26.1	1.437	358.17	-22.96	18.118	-0.9	14.902	18.591	17.529	112.0	169.8
PgtRgt	3404402597359421568	05 38 59.50974 +23 30 06.92809			18.880	41.42	79.12	21.509	-11.4		18.741	0	23.5	86.2
U31101* ^a	2031-12-08 06:12:35.97	05 38 53.52466 +23 30 03.51695	53.5	29.3	0.778	358.16	-23.02	18.117	3.8	10.067	11.758	10.788	275.2	170.3
PgtRgt	3404402532936959488	05 38 53.52288 +23 30 04.29469			10.227	41.33	79.13	22.743	-10.5	0.531	11.911	0	23.5	93.0
U31102 ^d	2031-12-08 06:16:32.50	05 38 53.49479 +23 30 03.40218	299.9	182.3	0.880	358.16	-23.02	18.117	3.2	10.067	12.044	10.777	274.3	170.3
PgtRgt	3404402532934661120	05 38 53.49277 +23 30 04.28140			11.561	41.33	79.13	22.610	-10.7	0.531	12.196	0	23.5	93.0
U31103	2031-12-09 04:23:46.60	05 38 43.33502 +23 30 00.61190	31.9	15.9	0.837	178.14	-23.10	18.114	10.6	14.752	17.575	16.700	301.5	171.3
PgtRgt	3404401291689361792	05 38 43.33700 +23 29 59.77515			10.999	41.16	79.16	22.745	-3.4	0.072	17.731	0	23.5	104.6
U31104	2031-12-10 11:26:37.21	05 38 29.02148 +23 29 53.90194	14.2	7.4	0.565	178.11	-23.20	18.111	9.8	13.868	16.065	15.367	194.4	172.7
PgtRgt	3404401983181157120	05 38 29.02283 +23 29 53.33770			7.415	40.93	79.20	23.147	-4.9	0.104	16.227	0	23.5	121.5
U31105	2031-12-13 16:20:24.95	05 37 53.34339 +23 29 33.82477	19.4	9.8	3.027	358.04	-23.38	18.105		12.780	16.841	15.731	117.7	176.1
XRgt	3404584463454281856	05 37 53.33587 +23 29 36.84970			39.744	40.34	79.29	14.641		0.178	17.010	0	23.5	166.3
U31106	2031-12-16 04:12:16.05	05 37 25.40006 +23 29 27.45782	37.3	19.9	3.947	177.98	-23.45	18.103		14.700	18.255	17.222	297.2	178.7
XRt	3404585769124337280	05 37 25.41016 +23 29 23.51302			51.826	39.87	79.36			0.085	18.428	0	23.5	155.8
U31107	2031-12-19 04:37:10.09	05 36 51.59658 +23 29 05.48015	46.3	23.9	1.372	357.91	-23.43	18.103	-0.7	14.689	18.511	17.409	287.8	178.1
PgtRgt	3404586421959360768	05 36 51.59295 +23 29 06.85096			18.010	39.30	79.45	22.074	-11.0		18.682	0	23.5	111.5
U31108	2031-12-20 05:51:11.28	05 36 39.82474 +23 29 00.87396	39.6	20.5	0.046	357.89	-23.40	18.104	7.0	14.866	18.027	17.068	268.2	177.0
PgtRgt	3404504370904534912	05 36 39.82462 +23 29 00.92017			0.607	39.10	79.48	23.575	-7.4		18.197	0	23.5	96.6
U31109*	2031-12-23 09:04:50.39	05 36 04.86355 +23 28 45.03528	9.1	5.2	2.121	177.82	-23.25	18.108		11.941	13.554	13.010	216.6	173.6
PRgt	3404506539865133952	05 36 04.86941 +23 28 42.91568			27.857	38.49	79.56	19.593		0.224	13.718	0	23.5	54.5
U31110	2031-12-26 11:51:32.24	05 35 30.42143 +23 28 27.61653	33.7	19.7	2.998	177.76	-23.01	18.115		14.930	17.920	17.041	171.7	170.3
XRgt	3404507222762799872	05 35 30.42996 +23 28 24.62089			39.387	37.89	79.65	14.603		0.076	18.072	0	23.5	15.4
U31111	2031-12-26 14:59:19.92	05 35 28.99072 +23 28 26.14948	14.3	8.5	2.303	177.75	-23.00	18.115		13.016	16.462	15.400	124.6	170.2
PtRgt	3404507188403061760	05 35 28.99729 +23 28 23.84807			30.260	37.87	79.65	18.644		0.207	16.614	0	23.5	13.8
U31112	2031-12-27 09:07:29.58	05 35 20.71535 +23 28 18.13259	10.0	7.6	1.228	357.74	-22.92	18.117	0.2	14.177	17.554	16.415	211.8	169.4
PgtRgt	3404548321308072192	05 35 20.71182 +23 28 19.35957			16.135	37.72	79.67	21.880	-10.6	0.103	17.703	0	23.5	5.2
U31113	2031-12-28 07:00:12.48	05 35 10.76444 +23 28 10.74947	16.8	11.4	3.176	357.72	-22.83	18.120		14.143	16.861	16.040	242.7	168.4
XRgt	3404548252587563776	05 35 10.75525 +23 28 13.92301			41.740	37.54	79.70	13.031		0.101	17.004	0	23.5	7.7
U31114	2031-12-28 22:40:18.16	05 35 03.66040 +23 28 07.39241	15.8	10.8	2.627	357.71	-22.75	18.123		13.974	16.588	15.769	7.0	167.7
XRgt	3404548115148617344	05 35 03.65275 +23 28 10.01740			34.530	37.41	79.71	16.723		0.102	16.728	0	23.5	15.2
U31115	2031-12-30 06:15:24.10	05 34 49.40887 +23 28 03.01873	25.5	18.5	0.902	177.68	-22.59	18.127	9.9	14.948	17.576	16.759	251.8	166.3
PgtRgt	3404548767983659392	05 34 49.41152 +23 28 02.11757			11.858	37.16	79.75	22.111	-2.2	0.066	17.709	0	23.5	30.7

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U31116	2031-12-30 12:18:26.91	05 34 46.69486 +23 28 00.87282	15.3	11.1	0.272	177.67	-22.56	18.128	7.9	13.668	16.644	15.739	160.8	166.1
PgtRgt	3404548969844905088	05 34 46.69566 +23 28 00.60068			3.581	37.11	79.76	22.653	-5.6	0.135	16.775	0	23.5	33.7
U31117	2031-12-31 04:45:40.71	05 34 39.34015 +23 27 53.60538	35.6	25.8	2.868	357.66	-22.46	18.131		14.800	17.786	16.965	273.3	165.3
XRgt	3404547526735888640	05 34 39.33163 +23 27 56.47147			37.721	36.98	79.77	15.171		0.073	17.912	0	23.5	41.8
U31118	2031-12-31 22:05:50.23	05 34 31.60022 +23 27 54.58382	10.5	7.1	2.471	177.65	-22.36	18.134		13.693	15.806	15.118	12.5	164.6
XRgt	3404550451610609792	05 34 31.60760 +23 27 52.11475			32.502	36.84	79.79	17.357		0.107	15.927	0	23.5	50.4
U32001	2032-01-01 16:10:20.98	05 34 23.60359 +23 27 44.41422	7.1	4.9	3.155	357.63	-22.25	18.138		13.037	14.916	14.300	100.6	163.8
XRgt	3404550245452183552	05 34 23.59411 +23 27 47.56650			41.503	36.69	79.81	12.980		0.134	15.031	0	23.5	59.3
U32002	2032-01-02 13:23:02.79	05 34 14.24996 +23 27 40.51276	24.5	16.4	1.714	357.61	-22.11	18.142	-4.2	14.656	17.275	16.445	141.5	162.8
PgtRgt	3404550928350591616	05 34 14.24478 +23 27 42.22481			22.547	36.52	79.83	19.951	-10.4	0.076	17.384	0	23.5	69.8
U32003	2032-01-05 02:32:01.55	05 33 47.64561 +23 27 28.26267	16.0	11.2	1.442	177.57	-21.68	18.156	10.6	13.778	16.664	15.806	301.7	160.1
PgtRgt	3404539422134616832	05 33 47.65007 +23 27 26.82216			18.985	36.03	79.90	20.240	1.7	0.128	16.752	0	23.5	100.5
U32004	2032-01-05 08:43:16.64	05 33 44.98232 +23 27 27.98105	4.6	3.3	2.719	177.56	-21.63	18.157		11.499	13.630	12.931	208.6	159.9
XRgt	3404539422134619264	05 33 44.99073 +23 27 25.26468			35.804	35.98	79.90	15.379		0.302	13.715	0	23.5	103.7
U32005	2032-01-05 11:39:01.53	05 33 43.72533 +23 27 27.30796	11.1	7.6	2.783	177.56	-21.61	18.158		13.463	15.842	15.068	164.5	159.7
XRgt	3404539044177497472	05 33 43.73395 +23 27 24.52754			36.649	35.96	79.91	14.953		0.127	15.926	0	23.5	105.3
U32006	2032-01-06 05:18:17.37	05 33 36.18138 +23 27 22.44787	27.5	19.0	2.363	177.54	-21.46	18.162		13.542	17.344	16.140	258.9	159.0
XRgt	3404539280399086976	05 33 36.18874 +23 27 20.08695			31.128	35.82	79.92	17.024			17.421	0	23.5	114.5
U32007	2032-01-10 01:36:22.32	05 32 57.63152 +23 26 57.39389	8.2	5.6	0.398	177.47	-20.64	18.187	7.9	13.082	15.023	14.359	310.5	154.9
PgtRgt	3404541414999474560	05 32 57.63280 +23 26 56.99617			5.251	35.10	80.02	20.658	-4.5		15.057	0	23.5	166.4
U32008	2032-01-12 08:14:17.63	05 32 35.60152 +23 26 40.71160	15.0	9.9	2.785	357.43	-20.09	18.204		14.167	16.658	15.855	208.7	152.5
XRgt	3404536467197163136	05 32 35.59245 +23 26 43.49363			36.768	34.68	80.07	13.898		0.092	16.663	0	23.5	159.1
U32009	2032-01-17 16:45:56.43	05 31 46.40077 +23 26 09.28726	40.3	24.7	3.242	357.33	-18.60	18.250		14.972	18.047	17.104	75.3	146.8
XRgt	3416545191459378944	05 31 46.38982 +23 26 12.52623			42.918	33.73	80.18	10.116		0.065	17.968	0	23.5	79.5
U32010	2032-01-18 22:31:51.89	05 31 35.57979 +23 26 04.72532	19.5	12.3	0.847	357.31	-18.22	18.261	1.8	13.575	16.913	15.944	347.5	145.5
PgtRgt	3416547802799494272	05 31 35.57690 +23 26 05.57106			11.214	33.52	80.20	17.874	-9.1	0.156	16.812	0	23.5	62.6
U32011	2032-01-19 22:28:36.41	05 31 27.04261 +23 26 01.54681	16.3	10.5	1.500	177.30	-17.90	18.271	10.2	13.868	16.427	15.591	347.3	144.5
PgtRgt	3416547944535579520	05 31 27.04775 +23 26 00.4813			19.882	33.36	80.22	16.558	2.7	0.109	16.307	0	23.5	49.4
U32012	2032-01-22 00:47:10.70	05 31 09.63083 +23 25 50.42162	20.3	12.2	1.749	177.27	-17.22	18.292	9.9	14.248	16.718	15.936	310.5	142.3
PgtRgt	3416173389027340544	05 31 09.63689 +23 25 48.67419			23.209	33.01	80.26	15.376	5.1	0.089	16.555	0	23.5	22.9
U32013	2032-01-25 06:28:24.88	05 30 44.15341 +23 25 35.52649	16.2	9.6	3.740	177.22	-16.10	18.327		14.407	16.452	15.768	221.9	138.9
XRgt	3416185105698145024	05 30 44.16660 +23 25 31.79136			49.705	32.51	80.32	3.670		0.075	16.216	0	23.4	17.0
U32014	2032-01-27 04:21:09.97	05 30 29.95758 +23 25 25.53885	9.0	6.1	3.283	177.19	-15.40	18.348		12.266	15.435	14.507	251.8	136.9
XRgt	3416184315424172032	05 30 29.96925 +23 25 22.25961			43.691	32.22	80.35	7.949		0.261	15.151	0	23.4	39.5
U32015	2032-02-05 14:04:20.37	05 29 30.00221 +23 24 39.77337	8.3	6.1	1.336	357.10	-11.66	18.466	-1.8	12.517	15.401	14.508	96.5	127.1
PgtRgt	3416181910242758400	05 29 29.99729 +23 24 41.10800			17.898	31.00	80.48	10.958	-9.8	0.221	14.814	0	23.4	155.2
U32016	2032-02-06 06:33:21.50	05 29 26.29907 +23 24 38.41802	3.6	2.7	0.105	357.09	-11.36	18.475	5.1	8.198	13.255	12.019	208.5	126.4
PgtRgt	3416228811285405568	05 29 26.29869 +23 24 38.52260			1.403	30.93	80.49	11.427	-6.0	2.858	12.641	0	23.4	164.5
U32017	2032-02-08 12:46:20.11	05 29 14.82367 +23 24 30.28317	23.1	17.0	0.180	357.07	-10.37	18.507	4.7	13.833	17.412	16.355	113.0	124.1
PgtRgt	3416227574334830848	05 29 14.82300 +23 24 30.46266			2.412	30.69	80.51	10.428	-6.2	0.141	16.699	0	23.4	162.4
U32018	2032-02-22 00:51:28.17	05 28 29.45218 +23 24 01.09893	38.3	26.0	3.002	177.03	-3.97	18.709		14.682	17.563	16.626	278.2	110.3
XRgt	3416207675751592448	05 28 29.46348 +23 23 58.10057			40.740	29.74	80.61	2.380		0.080	15.808	0	23.4	23.5
U32019	2032-03-08 20:58:56.90	05 28 29.45218 +23 24 01.09888	39.0	26.4	2.091	176.79	4.05	18.970		14.682	17.563	16.626	320.8	94.4
PtRgt	3416207675751592448	05 28 29.46068 +23 23 59.01159			28.763	29.74	80.61	3.395		0.081	15.830	0	23.4	133.5
U32020	2032-03-22 06:00:33.13	05 29 14.82368 +23 24 30.28247	24.2	17.8	2.889	356.91	10.89	19.196		13.833	17.412	16.355	172.4	81.2
XRgt	3416227574334830848	05 29 14.81237 +23 24 33.16706			40.218	30.69	80.51	6.749		0.146	16.752	0	23.4	46.0
U32021	2032-03-24 11:30:50.46	05 29 26.29906 +23 24 38.41771	3.8	2.9	3.250	356.93	12.00	19.233		8.198	13.255	12.019	87.6	79.1
XRgt	3416228811285405568	05 29 26.28641 +23 24 41.66337			45.339	30.92	80.49	5.540		2.976	12.700	0	23.4	72.4
U32022	2032-04-01 13:19:27.49	05 30 16.75189 +23 25 19.99318	19.9	12.7	1.548	177.01	15.89	19.365	4.0	14.291	16.883	16.057	52.7	71.3
PgtRgt	3416184208048040064	05 30 16.75775 +23 25 18.44723			21.742	31.95	80.38	14.434	10.0	0.094	16.634	0	23.4	173.8

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U32023	2032-04-03 08:48:59.39	05 30 29.95756 +23 25 25.53862	9.7	6.5	2.355	357.03	16.75	19.394		12.266	15.435	14.507	118.6	69.5
XRgt	3416184315424172032	05 30 29.94871 +23 25 27.89090			33.131	32.22	80.35	12.804		0.276	15.242	0	23.4	159.7
U32024	2032-04-04 22:40:44.46	05 30 41.96964 +23 25 37.52587	52.0	31.1	1.090	177.05	17.48	19.419	0.3	14.397	18.167	17.096	269.2	68.0
PgtRgt	3416185101401242112	05 30 41.97370 +23 25 36.43747			15.349	32.46	80.32	16.750	9.7	0.114	18.020	0	23.4	137.6
U32025	2032-04-05 05:21:01.71	05 30 44.15341 +23 25 35.52618	17.3	10.3	2.451	357.06	17.61	19.423		14.407	16.452	15.768	168.8	67.8
XRgt	3416185105698145024	05 30 44.14427 +23 25 37.97405			34.528	32.50	80.32	12.948		0.079	16.314	0	23.4	133.7
U32026	2032-04-05 12:41:25.76	05 30 46.55245 +23 25 39.05717	28.0	16.8	0.619	357.06	17.75	19.428	-8.4	14.677	17.332	16.499	58.4	67.5
PgtRgt	3416184895242812032	05 30 46.55014 +23 25 39.67500			8.717	32.55	80.31	17.589	2.7	0.084	17.202	0	23.4	129.3
U32027	2032-04-07 13:38:59.47	05 31 03.07247 +23 25 50.95962	64.2	38.7	0.334	357.09	18.68	19.459	-7.4	14.839	18.607	17.552	42.1	65.5
PgtRgt	3416173560826039040	05 31 03.07123 +23 25 51.29367			4.721	32.88	80.28	18.709	4.3		18.533	0	23.5	99.8
U32028	2032-04-09 06:14:30.69	05 31 17.38466 +23 26 01.30517	21.0	13.7	0.031	177.10	19.44	19.485	-5.9	14.075	16.639	15.844	151.6	63.9
PgtRgt	3416173453449943168	05 31 17.38478 +23 26 01.27461			0.432	33.16	80.24	19.555	6.1	0.102	16.608	0	23.5	75.3
U32029	2032-04-11 04:36:16.03	05 31 34.40137 +23 26 13.40325	38.0	24.2	0.367	177.14	20.30	19.514	-4.3	14.875	17.894	17.003	174.4	62.1
PgtRgt	3416547871518972800	05 31 34.40270 +23 26 13.03673			5.194	33.49	80.20	20.310	7.6	0.076	17.910	0	23.5	48.0
U32030	2032-04-11 15:43:36.59	05 31 38.59323 +23 26 14.96259	8.6	5.4	0.952	357.14	20.50	19.521	-9.6	13.120	15.052	14.402	7.1	61.6
PgtRgt	3416547837159235072	05 31 38.58979 +23 26 15.91357			13.481	33.58	80.20	19.862	0.8	0.140	15.079	0	23.5	41.6
U32031	2032-04-15 21:13:44.90	05 32 18.62723 +23 26 39.87592	24.6	14.7	3.218	357.20	22.29	19.583		14.494	17.037	16.226	280.5	57.6
XRgt	3416545711152624128	05 32 18.61582 +23 26 43.08970			45.699	34.35	80.10	9.884		0.089	17.155	0	23.5	13.6
U32032	2032-04-18 19:21:48.01	05 32 48.10494 +23 27 06.03817	33.1	21.0	3.292	177.25	23.48	19.624		14.898	17.661	16.814	305.8	54.9
XRgt	3404542132257366656	05 32 48.11641 +23 27 02.74986			46.855	34.91	80.03	9.237		0.074	17.835	0	23.5	48.1
U32033	2032-04-20 14:27:39.87	05 33 06.95490 +23 27 16.73131	19.8	13.4	1.590	177.28	24.18	19.648	4.4	14.305	16.744	15.958	17.6	53.2
PgtRgt	3404541548141818880	05 33 06.96039 +23 27 15.14342			22.654	35.26	79.99	21.798	10.2	0.072	16.950	0	23.5	69.2
U32034	2032-04-21 22:24:41.63	05 33 21.27922 +23 27 22.17845	18.5	11.5	2.294	357.30	24.69	19.666		14.212	16.688	15.908	257.1	52.0
XRgt	3404538490125104896	05 33 21.27137 +23 27 24.46953			32.715	35.53	79.96	18.989		0.099	16.917	0	23.5	85.1
U32035	2032-04-22 07:09:41.65	05 33 25.25275 +23 27 23.42335	9.9	6.6	3.623	357.30	24.83	19.671		12.134	15.519	14.553	125.5	51.6
XRt	3404539967593854592	05 33 25.24036 +23 27 27.04282			51.696	35.61	79.95			0.473	15.754	0	23.5	89.6
U32036	2032-04-24 21:34:23.73	05 33 54.16740 +23 27 42.50343	15.0	10.4	3.120	357.35	25.79	19.705		13.792	16.263	15.499	266.9	49.2
XRgt	3404527735527193984	05 33 54.15691 +23 27 45.62010			44.589	36.14	79.88	12.521		0.114	16.539	0	23.5	122.0
U32037	2032-04-28 00:13:56.53	05 34 30.09764 +23 28 09.56753	7.4	5.2	1.291	177.41	26.90	19.744	1.3	12.751	14.849	14.150	224.1	46.3
PgtRgt	3404550451610610176	05 34 30.10189 +23 28 08.27737			18.494	36.79	79.79	25.210	10.7	0.180	15.171	0	23.5	162.9
U32038	2032-04-29 01:05:51.93	05 34 42.38602 +23 28 16.98845	7.5	5.3	1.080	177.43	27.26	19.756	-0.4	12.597	14.497	13.865	210.1	45.4
PgRg	3404547561095168768	05 34 42.38955 +23 28 15.90927			15.479	37.02	79.76	26.146	10.5	0.167	14.833	0	23.5	175.4
U32039*	2032-08-07 13:33:59.80	05 58 47.51837 +23 36 49.96798	12.3	8.3	3.025	179.55	27.28	19.742		11.968	14.538	13.583	290.1	45.4
XRgt	3424869873169446272	05 58 47.52008 +23 36 46.94289			43.315	56.36	75.60	14.763		0.281	14.875	0	23.6	60.3
U32040	2032-08-08 19:49:45.00	05 59 02.50636 +23 36 48.45041	32.9	21.6	0.066	359.57	26.84	19.726	-12.9	14.751	17.798	16.869	194.9	46.6
PgtRgt	3424869009879284352	05 59 02.50632 +23 36 48.51655			0.946	56.51	75.55	27.465	12.3	0.086	18.117	0	23.6	75.1
U32041	2032-08-11 09:43:50.33	05 59 32.43459 +23 36 54.09230	6.6	4.6	2.602	179.60	25.93	19.694		11.233	14.722	13.728	344.0	48.9
XRgt	3424866952591895552	05 59 32.43591 +23 36 51.48994			37.171	56.80	75.46	18.079		0.491	15.004	0	23.6	105.6
U32042	2032-08-12 01:24:55.23	05 59 39.86004 +23 36 54.22657	29.2	19.8	2.034	179.61	25.69	19.685		14.400	17.617	16.666	108.1	49.5
PRgt	3424866982654722944	05 59 39.86106 +23 36 52.19294			29.035	56.87	75.43	21.626		0.102	17.889	0	23.6	113.5
U32043	2032-08-12 18:05:11.40	05 59 47.68072 +23 36 54.50558	12.0	9.6	1.587	179.62	25.44	19.676	1.3	14.799	17.971	16.762	217.4	50.2
PgtRgt	3424867120093676672	05 59 47.68150 +23 36 52.91862			22.647	56.95	75.41	23.335	13.0	0.081	18.232	0	23.6	121.9
U32044	2032-08-13 02:34:34.00	05 59 51.63615 +23 36 51.61774	4.7	3.0	1.662	359.62	25.31	19.671	-12.1	11.926	13.502	12.933	89.7	50.5
PgtRgt	3424867120093520640	05 59 51.63535 +23 36 53.27990			23.715	56.99	75.40	22.950	-2.8	0.247	13.758	0	23.6	126.3
U32045	2032-08-13 04:00:53.79	05 59 52.30432 +23 36 51.69447	17.8	11.5	1.646	359.62	25.28	19.671	-12.3	14.123	16.892	16.044	68.1	50.6
PgtRgt	3424867158750309888	05 59 52.30353 +23 36 53.34060			23.485	56.99	75.39	22.983	-2.5	0.095	17.147	0	23.6	127.0
U32046	2032-08-15 07:22:17.87	06 00 15.78123 +23 36 59.17065	14.4	9.4	3.760	179.64	24.48	19.642		12.739	16.442	15.411	15.7	52.5
XRt	3424860355522092928	06 00 15.78293 +23 36 55.41116			53.557	57.22	75.32			0.261	16.661	0	23.6	154.2
U32047	2032-08-16 02:34:38.82	06 00 24.37506 +23 36 58.05602	17.3	10.9	1.918	179.65	24.17	19.631		13.629	16.538	15.624	86.9	53.3
PtRgt	3424860424241561216	06 00 24.37591 +23 36 56.13795			27.309	57.30	75.29	20.933		0.143	16.743	0	23.6	164.6

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U32048	2032-08-22 06:08:28.27	06 01 26.85951	+23 37 01.42416	23.9	17.4	0.444	179.70	21.73	19.544	-10.7	14.348	17.065	16.220	27.6	58.9
PgtRgt	3424670758484889856	06 01 26.85968	+23 37 00.97988	6.297	57.88	6.297	179.71	75.09	22.120	14.9	0.094	17.156	0	23.6	104.1
U32049*	2032-08-25 08:25:33.83	06 01 55.84824	+23 37 05.52234	47.9	30.6	2.503	179.71	20.45	19.497	14.480	17.432	16.346	350.4	61.8	
XRgt	3424693397257529856	06 01 55.84915	+23 37 03.01897	35.400	58.15	35.400	179.71	74.99	15.075	0.088	17.456	0	23.6	58.9	
U32050*	2032-08-27 20:42:38.88	06 02 18.10129	+23 37 06.22420	45.7	31.1	1.685	179.72	19.37	19.459	2.7	14.891	17.649	16.755	163.8	64.1
PgtRgt	3424691747990091392	06 02 18.10190	+23 37 04.53919	23.781	58.35	23.781	179.72	74.92	17.575	12.2	0.073	17.614	0	23.6	25.5
U32051	2032-08-28 03:02:57.01	06 02 20.37317	+23 37 05.99201	29.5	19.9	1.299	179.72	19.25	19.455	-3.5	14.424	17.542	16.614	68.4	64.4
PgtRgt	3424691782349829632	06 02 20.37364	+23 37 04.69327	18.326	58.37	18.326	179.72	74.91	18.436	15.2	0.101	17.501	0	23.6	22.1
U32052	2032-09-02 17:56:45.93	06 03 05.55578	+23 37 07.41223	13.8	10.6	0.425	359.70	16.73	19.366	-15.2	12.665	16.223	15.186	199.6	69.6
PgtRgt	3424684433660980864	06 03 05.55561	+23 37 07.83745	6.661	59.26	6.661	359.70	74.77	17.077	11.3	0.265	16.029	0	23.6	46.7
U32053	2032-09-03 03:12:45.30	06 03 08.43160	+23 37 09.14414	22.2	16.5	1.095	179.69	16.55	19.360	-5.9	14.426	16.989	16.155	60.3	70.0
PgtRgt	3424684532445042304	06 03 08.43203	+23 37 08.04926	15.374	58.80	15.374	179.69	74.76	16.221	15.8	0.092	16.784	0	23.6	51.3
U32054	2032-09-11 02:24:31.69	06 04 00.96538	+23 37 12.04896	26.1	16.6	0.478	359.57	12.78	19.229	-15.6	14.590	17.235	16.417	64.7	77.5
PgtRgt	3424682475155792512	06 04 00.96512	+23 37 12.52656	6.661	59.26	6.661	359.57	74.58	13.045	11.2	0.265	16.749	0	23.6	147.1
U32055	2032-09-14 14:04:10.58	06 04 19.74076	+23 37 16.62861	25.6	20.9	1.971	179.47	11.08	19.171	13.023	16.857	15.406	246.4	80.9	
PRgt	3426136579285147776	06 04 19.74208	+23 37 14.65761	27.406	59.42	27.406	179.47	74.52	9.633	0.215	16.216	0	23.6	165.2	
U32056*	2032-09-18 08:00:24.98	06 04 36.98962	+23 37 15.85032	5.1	3.4	1.293	359.31	9.24	19.107	-15.6	11.826	13.076	12.596	333.7	84.5
PgtRgt	3426135857730616704	06 04 36.98849	+23 37 17.14283	17.913	59.57	17.913	359.31	74.47	8.912	4.3	0.236	12.238	0	23.6	110.6
U32057	2032-09-21 23:09:19.01	06 04 50.75098	+23 37 18.34059	25.9	17.7	1.469	359.05	7.44	19.045	-14.8	14.732	17.378	16.562	103.0	87.9
PgtRgt	3426133139013534848	06 04 50.74921	+23 37 19.80892	20.285	59.68	20.285	359.05	74.42	7.040	2.3	0.083	16.304	0	23.6	56.6
U32058	2032-09-22 16:12:12.01	06 04 53.09919	+23 37 18.87777	17.5	12.9	1.486	358.98	7.08	19.033	-14.7	14.315	16.801	16.000	206.6	88.6
PgtRgt	3426133139013535616	06 04 53.09727	+23 37 20.36388	20.518	59.70	20.518	358.98	74.41	6.692	2.0	0.152	15.675	0	23.6	46.6
U32059	2032-09-23 19:22:03.60	06 04 56.60547	+23 37 20.44319	18.4	13.4	0.831	358.85	6.52	19.014	-16.3	14.374	17.044	16.208	158.0	89.7
PgtRgt	3426133104657515776	06 04 56.60426	+23 37 21.27403	11.460	59.73	11.460	358.85	74.40	6.583	9.1	15.826	0	23.6	31.2	
U32060	2032-09-23 21:19:13.57	06 04 56.84469	+23 37 21.71141	12.2	9.1	0.371	178.84	6.48	19.012	-12.3	13.990	16.238	15.501	128.7	89.8
PgtRgt	3426133108951510272	06 04 56.84524	+23 37 21.34073	5.112	59.74	5.112	178.84	74.40	6.680	15.5	0.097	15.014	0	23.6	30.1
U32061	2032-10-12 02:36:27.89	06 05 12.47145	+23 37 42.68906	10.7	7.8	1.596	184.47	-2.70	18.705	14.8	14.260	16.043	15.449	31.4	107.7
PgtRgt	3426134444683611136	06 05 12.46240	+23 37 41.09814	21.649	59.85	21.649	184.47	74.35	2.586	0.7	0.080	13.869	0	23.6	162.2
U32062	2032-10-18 07:44:10.87	06 05 00.32510	+23 37 48.28523	15.3	11.0	1.591	2.32	-5.70	18.606	0.1	14.321	16.565	15.842	308.3	113.9
PgtRgt	3426134586420252416	06 05 00.32979	+23 37 49.87516	21.472	59.74	21.472	2.32	74.38	5.341	-14.6	0.087	15.201	0	23.6	72.5
U32063	2032-10-26 15:33:42.06	06 04 30.61516	+23 37 59.97343	2.866	1.51	2.866	1.51	-9.54	18.480	14.368	17.183	16.345	182.6	122.3	
XRgt	3426136643706870144	06 04 30.62066	+23 38 02.83799	38.407	59.47	38.407	1.51	74.48	6.437	0.091	16.379	0	23.6	38.6	
U32064	2032-10-28 10:26:42.81	06 04 22.29609	+23 38 08.82998	16.7	10.8	3.075	181.41	-10.33	18.454	13.808	16.697	15.793	257.6	124.1	
XRgt	3426136613644877952	06 04 22.29057	+23 38 05.75584	41.158	59.40	41.158	181.41	74.51	6.274	0.124	15.980	0	23.6	59.7	
U32065	2032-11-05 05:35:33.57	06 03 38.22591	+23 38 16.79010	17.0	12.5	1.880	1.07	-13.60	18.349	-5.7	14.368	16.462	15.737	322.5	132.1
PgtRgt	3424683265429811328	06 03 38.22846	+23 38 18.66947	25.015	59.00	25.015	1.07	74.65	12.176	-10.5	0.079	16.043	0	23.6	155.5
U32066	2032-11-06 18:47:50.15	06 03 28.03760	+23 38 21.99859	9.0	7.0	0.785	181.01	-14.21	18.330	15.9	12.922	14.896	14.227	122.9	133.7
PgtRgt	3424684777258319360	06 03 28.03659	+23 38 21.21385	10.434	58.91	10.434	181.01	74.68	14.294	-8.8	0.152	14.525	0	23.6	174.1
U32067	2032-11-07 01:29:41.87	06 03 26.15359	+23 38 21.64930	35.8	23.4	0.020	1.00	-14.32	18.326	13.4	14.882	17.624	16.737	22.1	133.9
PgtRgt	3424684738603516416	06 03 26.15361	+23 38 21.66899	0.262	58.89	0.262	1.00	74.69	14.716	-13.6	0.072	17.261	0	23.6	175.2
U32068	2032-11-08 12:05:43.90	06 03 16.19587	+23 38 23.95596	22.1	15.7	0.050	0.95	-14.87	18.309	13.2	14.020	16.908	15.989	221.6	135.4
PgtRgt	3424684914697290368	06 03 16.19593	+23 38 24.00617	0.667	58.80	0.667	0.95	74.72	15.274	-13.7	0.107	16.586	0	23.6	159.5
U32069	2032-11-13 00:58:36.36	06 02 42.43484	+23 38 31.03529	19.2	14.2	0.106	0.81	-16.50	18.256	12.9	14.352	16.840	16.033	23.8	140.1
PgtRgt	3424691408687608704	06 02 42.43495	+23 38 31.14120	1.402	58.49	1.402	0.81	74.83	16.928	-13.8	0.085	16.631	0	23.6	95.9
U32070	2032-11-15 01:50:07.89	06 02 26.14941	+23 38 36.54715	16.7	11.9	2.351	180.75	-17.18	18.234	14.359	16.758	15.965	8.9	142.2	
XRgt	3424691919788837248	06 02 26.14716	+23 38 34.19599	31.096	58.34	31.096	180.75	74.88	13.874	0.085	16.592	0	23.6	66.7	
U32071	2032-11-17 04:52:32.82	06 02 08.41871	+23 38 33.49779	18.1	13.9	3.770	0.69	-17.86	18.212	12.918	16.773	15.715	321.1	144.4	
XRgt	3424692095882393088	06 02 08.42202	+23 38 37.26712	49.793	58.18	49.793	0.69	74.94	4.046	0.241	16.650	0	23.6	36.6	
U32072	2032-11-17 08:11:32.65	06 02 07.24543	+23 38 36.96036	16.0	11.6	0.502	0.69	-17.90	18.211	10.5	13.599	16.757	15.736	271.2	144.6
PgtRgt	3424692095882393600	06 02 07.24587	+23 38 37.46227	6.630	58.17	6.630	0.69	74.94	18.210	-15.0	0.142	16.636	0	23.6	34.7

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U32073	2032-11-17 20:28:57.46	06 02 02.86290 +23 38 39.18285	9.2	6.9	1.002	180.68	-18.06	18.206	15.7	13.591	15.656	14.953	86.3	145.1
PgtRgt	3424693573351145216	06 02 02.86203 +23 38 38.18074			13.233	58.13	74.96	17.875	-6.9	0.119	15.545	0	23.6	27.7
U32074	2032-11-20 07:32:33.80	06 01 41.25256 +23 38 45.18656	8.2	6.4	3.668	180.61	-18.80	18.183		11.083	15.233	14.127	277.9	147.7
XRgt	3424694123106970112	06 01 41.24970 +23 38 41.51853			48.374	57.93	75.03	6.006		0.589	15.166	0	23.6	7.3
U32075	2032-11-23 02:47:00.58	06 01 15.59475 +23 38 47.96648	46.6	33.0	2.901	180.54	-19.58	18.158		14.897	18.280	17.351	346.4	150.6
XRgt	3424858530157630848	06 01 15.59276 +23 38 45.06511			38.211	57.68	75.11	13.238		0.077	18.257	0	23.6	40.8
U32076	2032-11-23 19:39:22.46	06 01 08.98599 +23 38 43.05767	4.2	2.8	2.850	0.52	-19.77	18.152		10.868	12.405	11.865	92.6	151.3
XRgt	3424858701956124416	06 01 08.98792 +23 38 45.90731			37.523	57.62	75.13	13.721		0.380	12.393	0	23.6	49.2
U32077	2032-11-25 03:54:07.74	06 00 56.18804 +23 38 47.70085	38.3	24.3	0.242	180.49	-20.11	18.141	13.9	14.952	18.003	17.080	327.5	152.8
PgtRgt	3424859079913443712	06 00 56.18789 +23 38 47.45917			3.180	57.50	75.17	20.570	-11.8	0.070	18.009	0	23.6	65.1
U32078	2032-11-25 10:22:58.55	06 00 53.58773 +23 38 47.49546	15.4	9.9	0.267	0.48	-20.18	18.139	11.6	13.998	16.422	15.636	230.1	153.0
PgtRgt	3424859286071874304	06 00 53.58790 +23 38 47.76205			3.507	57.47	75.18	20.629	-14.0	0.099	16.432	0	23.6	68.3
U32079*	2032-11-30 05:19:39.38	06 00 06.05589 +23 38 55.07328	16.4	11.3	2.507	180.36	-21.27	18.105		13.715	16.171	15.359	301.0	158.1
XRgt	3424861450735391616	06 00 06.05473 +23 38 52.56627			32.920	57.02	75.33	16.553		0.112	16.238	0	23.6	126.3
U32080**	2032-11-30 23:59:12.90	05 59 58.10435 +23 38 55.19824	58.8	39.6	1.961	180.34	-21.43	18.100		13.837	16.842	15.768	20.3	158.9
PtRgt	3424867296189250944	05 59 58.10349 +23 38 53.23689			25.747	56.94	75.36	18.925		0.119	16.917	0	23.6	136.2
U32081	2032-12-01 01:26:06.03	05 59 57.48387 +23 38 53.24224	24.9	15.7	0.045	0.34	-21.44	18.099	12.5	14.205	17.511	16.536	358.5	159.0
PgtRgt	3424867291892404992	05 59 57.48389 +23 38 53.28754			0.595	56.93	75.36	21.951	-12.9	0.102	17.586	0	23.6	137.0
U32082	2032-12-02 02:06:47.37	05 59 46.87067 +23 38 54.78964	20.9	13.0	0.671	180.31	-21.64	18.093	14.9	14.170	17.197	16.252	347.3	160.0
PgtRgt	3424867429331358720	05 59 46.87040 +23 38 54.11856			8.806	56.83	75.39	21.812	-9.0	0.108	17.282	0	23.6	150.3
U32083	2032-12-05 05:06:52.79	05 59 14.02883 +23 38 56.66288	54.7	42.2	0.389	180.23	-22.18	18.076	14.0	14.860	18.653	17.733	299.0	163.3
PgtRgt	3424869490915659264	05 59 14.02872 +23 38 56.27396			5.099	56.51	75.50	22.579	-10.6		18.765	0	23.6	165.9
U32084	2032-12-05 17:25:11.87	05 59 08.56279 +23 38 53.95880	13.3	11.7	2.614	0.22	-22.26	18.074		14.463	18.157	16.787	113.9	163.9
XRgt	3424869735731250816	05 59 08.56352 +23 38 56.57288			34.266	56.46	75.51	16.863		0.089	18.273	0	23.6	159.0
U32085	2032-12-06 06:06:46.07	05 59 02.90639 +23 39 00.61472	7.1	4.5	3.750	180.21	-22.34	18.071		12.406	15.006	14.174	283.0	164.4
XRgt	3424869701370727296	05 59 02.90540 +23 38 56.86446			49.153	56.40	75.53	6.160		0.200	15.126	0	23.6	151.7
U32086	2032-12-07 23:04:48.87	05 58 44.50864 +23 39 00.32295	19.7	13.4	2.635	180.17	-22.57	18.064		14.309	17.142	16.230	26.7	166.2
XRgt	3424870281189642752	05 58 44.50809 +23 38 57.68807			34.520	56.22	75.59	16.888		0.094	17.274	0	23.6	127.7
U32087	2032-12-14 17:00:11.07	05 57 30.20233 +23 39 02.98886	71.2	51.7	3.865	180.00	-23.21	18.043		14.891	18.616	17.549	110.9	173.4
XRgt	3424826060207009280	05 57 30.20234 +23 38 59.12433			50.570	55.47	75.83	1.829			18.778	0	23.6	33.4
U32088	2032-12-16 09:36:10.68	05 57 11.29152 +23 39 02.86417	6.0	3.7	3.836	179.96	-23.30	18.039		12.663	14.234	13.679	220.2	175.2
XRgt	3424837987331506944	05 57 11.29172 +23 38 59.02863			50.182	55.27	75.88	4.198		0.161	14.400	0	23.6	11.3
U32089	2032-12-17 02:00:09.27	05 57 03.63288 +23 39 01.20744	10.7	7.1	2.269	179.94	-23.33	18.038		13.641	15.612	14.919	333.5	175.9
PtRgt	3424832146175990656	05 57 03.63304 +23 38 58.93867			29.682	55.19	75.91	19.376			15.779	0	23.6	4.8
U32090*	2032-12-17 16:10:43.17	05 56 57.00502 +23 39 01.44119	21.2	13.6	2.604	179.93	-23.36	18.038		13.309	15.929	15.052	120.2	176.5
XRgt	3424832313679391488	05 56 57.00526 +23 38 58.83691			34.070	55.12	75.93	17.762		0.127	16.097	0	23.6	7.9
U32091	2032-12-17 22:48:51.97	05 56 53.90055 +23 39 00.42952	17.0	10.1	1.648	179.92	-23.36	18.037	13.4	12.178	16.372	15.240	20.4	176.8
PgtRgt	3424832317974689280	05 56 53.90071 +23 38 58.78174			21.556	55.09	75.94	21.616	0.6	0.337	16.540	0	23.6	11.0
U32092	2032-12-18 13:22:21.03	05 56 47.08528 +23 39 01.87740	22.0	14.8	3.234	179.91	-23.38	18.037		14.215	17.149	16.246	161.4	177.4
XRgt	3424832657276774400	05 56 47.08566 +23 38 58.64374			42.301	55.02	75.96	13.349		0.095	17.319	0	23.6	18.3
U32093	2032-12-23 01:11:32.72	05 55 56.53752 +23 39 00.93046	11.3	8.4	4.030	179.80	-23.40	18.036		11.239	15.274	14.172	339.5	177.8
XRt	3424835101113362688	05 55 56.53852 +23 38 56.90034			52.719	54.49	76.12			0.530	15.444	0	23.6	72.7
U32094	2032-12-23 10:49:44.91	05 55 52.02348 +23 38 55.96860	19.5	13.2	0.715	359.79	-23.39	18.036	7.9	14.021	16.341	15.580	194.5	177.3
PgtRgt	3424835062458456192	05 55 52.02329 +23 38 56.68362			9.354	54.44	76.13	23.448	-14.1	0.098	16.511	0	23.6	77.5
U32095	2032-12-24 01:37:02.36	05 55 45.09803 +23 38 56.38272	57.8	39.7	0.051	179.79	-23.37	18.037	12.0	14.031	18.584	17.340	332.0	176.7
PgtRgt	3427813983054352256	05 55 45.09804 +23 38 56.33186			0.665	54.37	76.15	23.839	-11.5		18.753	0	23.6	84.7
U32096	2032-12-24 08:15:03.57	05 55 41.99231 +23 38 59.38356	51.1	33.8	3.217	179.77	-23.36	18.037		14.774	18.475	17.463	232.2	176.4
XRgt	3427814051773830144	05 55 41.99323 +23 38 56.16641			42.086	54.34	76.16	13.452			18.644	0	23.6	88.0
U32097	2032-12-26 05:26:11.70	05 55 20.88377 +23 38 51.27626	15.3	10.1	3.639	359.73	-23.29	18.039		13.548	16.370	15.471	272.5	174.4
XRgt	3427814605827531264	05 55 20.88252 +23 38 54.91538			47.613	54.11	76.23	8.129		0.133	16.535	0	23.6	110.5

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U32098	2032-12-26 15:39:07.38	05 55 16.12149 +23 38 53.66157	23.1	15.7	0.941	359.72	-23.26	18.040	6.1	14.588	17.339	16.479	118.8	173.9
PgtRgt	3427814773328333696	05 55 16.12115 +23 38 54.60223			12.308	54.06	76.24	23.021	-14.3	0.077	17.503	0	23.6	115.7
U32099*	2032-12-27 09:03:47.11	05 55 08.01897 +23 38 51.00894	34.4	23.7	3.034	359.70	-23.22	18.041		12.171	13.903	13.308	216.9	173.2
XRgt	3427814704608568576	05 55 08.01782 +23 38 54.04249			39.694	53.97	76.27	14.900		0.194	14.065	0	23.6	124.6
U32100	2032-12-27 09:25:17.55	05 55 07.85048 +23 38 55.83951	19.0	12.5	1.809	179.70	-23.22	18.041	11.8	14.123	16.929	16.087	211.5	173.2
PgtRgt	3427814704610664576	05 55 07.85116 +23 38 54.03063			23.669	53.97	76.27	20.932	3.4	17.091	0	23.6	124.8	
U32101	2032-12-30 06:10:20.40	05 54 36.03664 +23 38 52.20251	6.2	3.9	0.689	179.64	-23.00	18.048	13.8	12.549	14.606	13.914	257.3	170.1
PgtRgt	3427816766193159168	05 54 36.03696 +23 38 51.51318			9.023	53.62	76.37	23.064	-7.8	0.178	14.758	0	23.6	161.5
U32102*	2032-12-30 11:00:17.97	05 54 33.81478 +23 38 48.89402	55.1	34.6	2.424	359.63	-22.98	18.049		14.455	18.041	16.894	184.6	169.9
XRgt	3427816976649514240	05 54 33.81365 +23 38 51.31823			31.734	53.60	76.37	18.336		0.099	18.192	0	23.6	164.2
U32103	2032-12-31 00:43:28.92	05 54 27.51146 +23 38 52.82000	17.5	11.5	2.068	179.62	-22.92	18.050		13.875	16.707	15.825	338.2	169.3
PtRgt	3427816942289781760	05 54 27.51246 +23 38 50.75243			27.068	53.53	76.39	19.714		0.115	16.855	0	23.6	171.3
U33001	2033-01-01 21:50:56.85	05 54 06.91235 +23 38 44.87697	27.6	18.6	3.887	359.58	-22.71	18.057		14.653	17.478	16.585	19.4	167.3
XRt	3427822985305799040	05 54 06.91026 +23 38 48.76376			50.903	53.30	76.46			0.081	17.616	0	23.6	160.2
U33002*	2033-01-04 05:39:16.84	05 53 41.73168 +23 38 46.94014	47.8	31.4	0.895	179.52	-22.40	18.066	13.9	13.856	17.331	16.235	259.9	164.8
PgtRgt	3427823500701876096	05 53 41.73222 +23 38 46.04476			11.732	53.02	76.54	22.200	-6.1	0.125	17.454	0	23.6	126.8
U33003	2033-01-05 13:52:45.00	05 53 27.36929 +23 38 43.40594	10.2	6.6	0.943	359.49	-22.19	18.072	5.7	11.293	15.684	14.529	135.2	163.4
PgtRgt	3427825119907556992	05 53 27.36868 +23 38 44.34905			12.362	52.86	76.58	21.925	-13.9	0.581	15.797	0	23.6	107.3
U33004	2033-01-07 00:21:39.10	05 53 12.16093 +23 38 38.55634	4.0	2.6	3.883	359.46	-21.95	18.079		10.479	13.445	12.558	336.5	161.9
XRt	3427825566583885184	05 53 12.15827 +23 38 42.43883			50.911	52.69	76.63	0.128		0.550	13.546	0	23.6	86.7
U33005	2033-01-07 07:46:57.01	05 53 08.90485 +23 38 45.62823	24.2	15.8	3.613	179.45	-21.90	18.081		14.787	17.515	16.657	224.9	161.6
XRgt	3427825768443978624	05 53 08.90736 +23 38 42.01554			47.377	52.66	76.64	7.748		0.074	17.613	0	23.6	82.3
U33006	2033-01-07 09:29:59.04	05 53 08.15523 +23 38 43.52570	23.7	15.5	1.609	179.45	-21.88	18.081	13.1	14.779	17.495	16.628	199.0	161.5
PgtRgt	3427825772742319360	05 53 08.15635 +23 38 41.91700			21.097	52.65	76.64	20.279	0.6	0.073	17.592	0	23.6	81.3
U33007	2033-01-08 20:07:16.67	05 52 53.11678 +23 38 35.87629	9.8	6.0	4.007	359.42	-21.62	18.089		13.715	15.898	15.184	38.2	160.0
XRt	3427497323706184192	05 52 53.11383 +23 38 39.88316			52.571	52.48	76.68			0.109	15.982	0	23.6	61.1
U33008	2033-01-09 03:12:13.56	05 52 50.05860 +23 38 42.00691	4.0	2.4	2.550	179.41	-21.56	18.091		11.470	12.407	12.084	291.7	159.7
XRgt	3427497362361880064	05 52 50.06053 +23 38 39.45661			33.459	52.44	76.69	16.573		0.259	12.489	0	23.6	57.1
U33009	2033-01-10 02:51:40.53	05 52 39.91996 +23 38 41.97486	24.2	15.7	3.966	179.39	-21.37	18.097		14.104	17.607	16.593	295.8	158.6
XRt	3427497499800840192	05 52 39.92301 +23 38 38.00894			52.056	52.33	76.72			0.124	17.678	0	23.6	43.7
U33010	2033-01-10 12:50:19.25	05 52 35.67624 +23 38 37.81628	39.0	24.7	0.428	179.39	-21.28	18.099	12.6	14.966	18.253	17.326	145.7	158.2
PgtRgt	3427497873461998976	05 52 35.67657 +23 38 37.38793			5.623	52.28	76.74	21.527	-8.9	0.074	18.321	0	23.6	38.1
U33011*	2033-01-10 22:35:50.06	05 52 31.54213 +23 38 34.55167	39.7	23.5	2.223	359.38	-21.20	18.102		13.072	15.333	14.573	358.9	157.7
PRgt	3427497912117708160	05 52 31.54038 +23 38 36.77450			29.185	52.23	76.75	17.689		0.142	15.396	0	23.6	32.7
U33012	2033-01-12 05:30:11.59	05 52 18.55220 +23 38 38.97525	5.8	3.5	4.181	179.35	-20.92	18.110		9.845	14.562	13.380	254.0	156.4
XRt	3427498045260693632	05 52 18.55565 +23 38 34.79445			54.918	52.08	76.79			1.219	14.611	0	23.6	16.0
U33013	2033-01-13 18:26:24.32	05 52 03.27933 +23 38 28.42860	27.4	14.5	3.932	359.32	-20.57	18.121		14.562	17.408	16.476	58.4	154.8
XRt	3427499664464391680	05 52 03.27594 +23 38 32.36019			51.675	51.91	76.84			0.085	17.438	0	23.6	6.6
U33014	2033-01-14 17:24:01.35	05 51 53.91362 +23 38 32.67668	7.4	4.3	1.863	179.30	-20.34	18.128	10.7	11.418	14.928	13.924	73.0	153.7
PgtRgt	3427500076781260800	05 51 53.91527 +23 38 30.81352			24.498	51.80	76.86	18.135	5.0	0.447	14.946	0	23.6	17.5
U33015	2033-01-15 02:40:29.91	05 51 50.16688 +23 38 28.04722	5.9	3.5	2.135	359.29	-20.25	18.131		12.649	14.438	13.830	293.5	153.3
PtRgt	3427500076781265152	05 51 50.16497 +23 38 30.18228			28.078	51.75	76.88	17.179		0.167	14.451	0	23.6	22.2
U33016	2033-01-15 07:29:13.47	05 51 48.22345 +23 38 32.95097	16.9	9.9	3.098	179.29	-20.20	18.132		12.734	16.613	15.548	221.1	153.1
XRgt	3427500111141004928	05 51 48.22624 +23 38 29.85330			40.740	51.73	76.88	12.312		0.261	16.624	0	23.6	24.7

^a A nearby event has the same 2MASS ID as this event, resulting in a corresponding K magnitude ambiguity.

* Superscript * indicates RUWE > 1.4, ** indicates RUWE > 2, and *** indicates RUWE > 5. See machine-readable file for RUWE values.

Table 4. Geocentric Uranus Occultation Predictions 2023 –2050 for $K \leq 15$ (part 4 of 7)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U33017	2033-01-15 08:28:52.14	05 51 47.82681 +23 38 29.28592	17.1	10.1	0.499	359.29	-20.19	18.133	8.3	14.140	16.677	15.895	206.1	153.1
PgtRgt	3427500106844991616	05 51 47.82636 +23 38 29.78521			6.567	51.73	76.88	20.362	-12.7	0.098	16.687	0	23.6	25.2
U33018	2033-01-15 21:17:57.13	05 51 42.68939 +23 38 28.38685	21.0	12.1	0.517	359.28	-20.06	18.137	8.2	14.658	16.969	16.249	13.3	152.5
PgtRgt	3427500209924204160	05 51 42.68891 +23 38 28.90339			6.795	51.67	76.90	20.216	-12.7	0.072	16.972	0	23.6	31.8
U33019	2033-01-16 07:16:48.99	05 51 38.71053 +23 38 30.96671	18.9	11.6	2.755	179.27	-19.95	18.140		14.398	16.782	16.045	223.2	152.1
XRgt	3427500175564467456	05 51 38.71308 +23 38 28.21194			36.246	51.62	76.91	14.289		0.086	16.779	0	23.6	36.9
U33020	2033-01-17 07:34:39.95	05 51 29.12883 +23 38 23.83360	22.4	12.5	2.680	359.25	-19.69	18.148		14.592	16.982	16.232	217.7	151.0
XRgt	3427506085439463552	05 51 29.12629 +23 38 26.51383			35.281	51.51	76.94	14.450		0.078	16.965	0	23.6	49.2
U33021	2033-01-18 08:13:53.39	05 51 19.53642 +23 38 23.56226	16.8	9.9	1.210	359.23	-19.41	18.157	3.2	12.444	16.140	15.100	206.8	149.9
PgtRgt	3427506257238156416	05 51 19.53524 +23 38 24.77197			15.931	51.39	76.97	18.733	-13.6	0.283	16.108	0	23.6	61.5
U33022	2033-01-18 11:24:47.45	05 51 18.30722 +23 38 25.02148	29.5	17.4	0.476	179.23	-19.38	18.158	12.5	14.666	17.344	16.500	158.9	149.8
PgtRgt	3427506222878418176	05 51 18.30769 +23 38 24.54582			6.265	51.38	76.97	19.557	-8.3	0.071	17.310	0	23.6	63.1
U33023	2033-01-19 14:20:09.97	05 51 08.01455 +23 38 24.10191	20.8	12.4	1.481	179.21	-19.07	18.167	13.2	14.439	16.670	15.944	113.9	148.6
PgtRgt	3427506635195280384	05 51 08.01604 +23 38 22.62109			19.513	51.26	77.00	17.896	-0.5	0.168	16.618	0	23.6	76.5
U33024	2033-01-19 21:58:47.38	05 51 05.12402 +23 38 23.81983	43.6	26.7	1.749	179.20	-18.98	18.170	11.9	14.848	17.915	17.049	359.0	148.3
PgtRgt	3427506703914755456	05 51 05.12579 +23 38 22.07137			23.044	51.22	77.01	17.214	2.9	0.076	17.858	0	23.6	80.2
U33025	2033-01-22 10:38:55.56	05 50 42.70288 +23 38 15.91089	21.2	13.3	1.751	359.16	-18.23	18.193	-3.0	13.628	16.454	15.546	166.3	145.6
PgtRgt	3427508357478120576	05 50 42.70101 +23 38 17.66179			23.106	50.96	77.08	16.510	-11.8	0.126	16.354	0	23.6	110.1
U33026	2033-01-23 06:23:13.42	05 50 35.61280 +23 38 12.92461	27.6	17.9	3.290	359.14	-17.97	18.201		14.871	17.351	16.535	229.4	144.7
XRgt	3427508421902219776	05 50 35.60922 +23 38 16.21407			43.428	50.87	77.10	9.390		0.067	17.235	0	23.6	120.0
U33027	2033-01-30 03:26:45.72	05 49 40.56873 +23 38 06.92241	16.1	9.5	2.856	179.02	-15.63	18.274		14.279	16.406	15.719	266.5	137.5
XRgt	3427673829680837760	05 49 40.57230 +23 38 04.06638			37.858	50.20	77.26	10.529		0.083	16.138	0	23.6	147.9
U33028	2033-01-31 16:46:09.91	05 49 29.26380 +23 37 57.57311	11.6	7.4	3.788	358.99	-15.05	18.292		13.779	15.679	15.037	65.1	135.9
XRgt	3427672493949141504	05 49 29.25894 +23 38 01.36054			50.253	50.07	77.30	2.692		0.102	15.371	0	23.6	124.8
U33029	2033-01-31 20:48:54.94	05 49 28.06187 +23 37 58.95306	21.9	13.8	2.116	358.99	-14.99	18.294		14.543	16.977	16.186	4.2	135.7
PRgt	3427672489651028992	05 49 28.05915 +23 38 01.06902			28.079	50.05	77.30	12.679		0.080	16.664	0	23.6	122.3
U33030	2033-02-03 03:24:57.46	05 49 12.39119 +23 37 54.46341	29.7	18.9	2.718	358.95	-14.10	18.321		14.483	17.814	16.869	262.9	133.4
XRgt	3427675547667742080	05 49 12.38756 +23 37 57.18057			36.111	49.86	77.35	9.984		0.095	17.435	0	23.6	88.4
U33031	2033-02-06 19:02:10.97	05 48 49.32729 +23 37 50.37661	12.4	7.4	0.814	358.89	-12.62	18.367	5.6	13.528	16.094	15.269	24.9	129.6
PgtRgt	3427676101721701376	05 48 49.32614 +23 37 51.19022			10.840	49.57	77.42	12.529	-12.8	0.133	15.594	0	23.6	36.8
U33032	2033-02-06 23:02:04.97	05 48 48.33512 +23 37 52.10907	6.5	4.1	1.183	178.88	-12.55	18.369	13.2	12.574	14.789	14.079	324.8	129.4
PgtRgt	3427676097423557888	05 48 48.33680 +23 37 50.92605			15.764	49.56	77.42	12.131	-2.8	0.188	14.284	0	23.6	34.6
U33033	2033-02-12 07:30:36.82	05 48 19.57886 +23 37 39.23898	11.1	6.3	3.733	358.81	-10.25	18.442		13.529	15.720	15.028	192.3	123.9
XRgt	3427682561352622720	05 48 19.57322 +23 37 42.97086			49.926	49.20	77.50	1.857		0.125	14.994	0	23.6	34.4
U33034	2033-02-14 01:00:35.01	05 48 11.57091 +23 37 36.81984	16.6	10.1	3.838	358.79	-9.47	18.466		13.391	16.710	15.684	288.0	122.1
XRt	3427682492633067264	05 48 11.56499 +23 37 40.65741			51.408	49.09	77.53	0.169		0.169	15.899	0	23.6	55.2
U33035	2033-02-14 03:26:30.95	05 48 11.11440 +23 37 41.22173	29.5	16.5	0.696	178.78	-9.43	18.468	12.4	14.913	17.543	16.682	251.4	122.0
PgtRgt	3427682492633067392	05 48 11.11548 +23 37 40.52618			9.318	49.09	77.53	9.431	-6.3	0.068	16.727	0	23.6	56.4
U33036	2033-02-14 04:47:37.93	05 48 10.86267 +23 37 42.97114	43.4	25.7	2.518	178.78	-9.40	18.468		14.598	18.294	17.244	231.1	121.9
XRgt	3427682492633067648	05 48 10.86657 +23 37 40.45344			33.731	49.09	77.53	7.137		0.177	17.474	0	23.6	57.1
U33037*	2033-02-16 20:00:38.11	05 47 59.99467 +23 37 37.14225	26.7	15.5	0.082	358.74	-8.20	18.507	9.6	14.326	16.956	16.084	0.2	119.2
PgtRgt	3427681255682493696	05 47 59.99454 +23 37 37.22373			1.094	48.95	77.56	8.349	-10.3	0.088	15.988	0	23.6	88.4
U33038	2033-02-19 06:11:27.41	05 47 51.33578 +23 37 32.65650	21.6	12.8	1.904	358.70	-7.07	18.543		14.326	17.281	16.409	205.1	116.8
PtRgt	3427684141900524160	05 47 51.33263 +23 37 34.56042			25.612	48.84	77.59	6.230		0.089	16.152	0	23.6	117.0
U33039	2033-02-23 09:59:50.01	05 47 39.53667 +23 37 31.85550	19.1	12.4	1.112	178.59	-5.08	18.607	12.9	13.009	17.074	15.967	143.8	112.5
PgtRgt	3427684000163377792	05 47 39.53865 +23 37 30.74432			15.000	48.69	77.62	4.972	-3.1	0.230	15.585	0	23.6	167.6
U33040	2033-03-19 19:09:38.21	05 47 51.33577 +23 37 32.65600	22.3	13.2	1.917	178.98	7.29	19.009		14.326	17.281	16.409	342.4	88.2
PtRgt	3427684141900524160	05 47 51.33824 +23 37 30.73956			26.425	48.84	77.59	6.355		0.092	16.185	0	23.6	132.4

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U33041	2033-03-24 23:20:03.19	05 48 11.57088	+23 37 36.81878	17.3	10.5	1.066	178.97	9.91	19.096	-3.3	13.391	16.710	15.684	274.8	83.1
PgtRgt	3427682492633067264	05 48 11.57228	+23 37 35.75313			14.762	49.10	77.53	9.643	13.0	0.175	15.947	0	23.6	161.2
U33042	2033-03-26 10:50:01.80	05 48 18.46957	+23 37 35.80189	14.9	11.6	1.664	358.96	10.65	19.121	-11.6	13.542	15.987	15.124	100.9	81.7
PgtRgt	3427682557054363904	05 48 18.46738	+23 37 37.46567			23.077	49.19	77.51	9.656	-3.2	0.127	15.302	0	23.6	141.1
U33043	2033-03-26 16:20:26.61	05 48 19.57888	+23 37 39.23828	11.6	6.6	1.497	178.97	10.76	19.125	0.9	13.529	15.720	15.028	18.0	81.5
PgtRgt	3427682561352622720	05 48 19.58084	+23 37 37.74198			20.758	49.20	77.50	9.967	12.5	0.130	15.047	0	23.6	137.9
U33044	2033-04-04 07:16:31.59	05 49 09.79976	+23 37 49.35275	55.6	35.1	0.651	359.00	15.01	19.267	-12.6	14.967	18.693	17.659	145.7	73.1
PgtRgt	3427675551966744960	05 49 09.79893	+23 37 50.00386			9.100	49.83	77.36	14.998	6.5	0.041	18.381	0	23.6	12.3
U33045	2033-04-07 01:40:03.01	05 49 29.26379	+23 37 57.57209	12.4	7.9	2.942	179.02	16.31	19.311		13.779	15.679	15.037	227.2	70.5
XRgt	3427672493949141504	05 49 29.26746	+23 37 54.63036			41.207	50.07	77.30	9.558		0.108	15.458	0	23.6	25.1
U33046	2033-04-08 03:58:21.79	05 49 37.41853	+23 37 53.61968	63.5	37.4	2.924	359.02	16.82	19.328		14.480	18.749	17.596	191.6	69.4
XRgt	3427673726601606144	05 49 37.41490	+23 37 56.54321			40.989	50.17	77.27	9.986			18.562	0	23.6	38.4
U33047	2033-04-10 07:05:47.88	05 49 53.93809	+23 38 01.32996	22.9	13.4	0.960	179.04	17.80	19.362	-4.4	14.331	16.948	16.164	142.7	67.4
PgtRgt	3427673352942582016	05 49 53.93926	+23 38 00.37022			13.479	50.37	77.23	17.446	13.3	0.096	16.821	0	23.6	63.7
U33048	2033-04-11 21:21:30.07	05 50 06.89412	+23 38 02.11304	40.9	27.5	1.205	359.06	18.52	19.387	-13.4	14.776	17.883	16.956	287.3	65.9
PgtRgt	3427673245565272704	05 50 06.89268	+23 38 03.31764			16.939	50.53	77.19	17.759	2.3	0.084	17.800	0	23.6	82.4
U33049	2033-04-13 12:40:07.94	05 50 20.71574	+23 38 05.28587	6.5	4.2	1.121	359.08	19.25	19.412	-13.4	12.691	14.295	13.743	56.0	64.3
PgtRgt	3427508804154723072	05 50 20.71443	+23 38 06.40695			15.785	50.70	77.15	18.593	3.1	0.167	14.253	0	23.6	101.7
U33050	2033-04-14 16:05:14.51	05 50 30.65631	+23 38 10.19326	15.7	10.2	1.600	179.09	19.75	19.429	2.4	12.146	16.108	15.027	3.7	63.3
PgtRgt	3427508116959954176	05 50 30.65816	+23 38 08.59306			22.552	50.82	77.12	18.015	12.1	0.362	16.094	0	23.6	115.3
U33051	2033-04-15 05:30:42.18	05 50 35.61280	+23 38 12.92534	29.8	19.3	3.254	179.10	20.00	19.437		14.871	17.351	16.535	161.8	62.7
XRgt	3427508421902219776	05 50 35.61653	+23 38 09.67204			45.868	50.88	77.10	8.937		0.071	17.351	0	23.6	121.9
U33052	2033-04-15 06:10:26.01	05 50 35.86465	+23 38 07.97077	11.9	7.7	1.755	359.10	20.01	19.438	-10.2	13.354	15.529	14.813	151.8	62.7
PgtRgt	3427508426197598464	05 50 35.86263	+23 38 09.72541			24.739	50.88	77.10	17.719	-5.6	0.145	15.529	0	23.6	122.3
U33053	2033-04-16 01:09:01.76	05 50 42.97381	+23 38 12.82983	37.4	23.3	1.570	179.11	20.35	19.450	1.9	13.847	17.405	16.382	226.4	62.0
PgtRgt	3427508353182193792	05 50 42.97560	+23 38 11.26012			22.145	50.97	77.08	18.637	12.3	0.144	17.424	0	23.6	131.8
U33054 ^d	2033-04-20 15:11:33.91	05 51 26.47842	+23 38 18.54137	15.7	9.4	1.741	359.17	22.29	19.516	-10.4	13.239	15.656	14.768	11.4	57.6
PgtRgt	3427506158452435840	05 51 26.47657	+23 38 20.28209			24.642	51.48	76.95	19.841	-5.3	0.147	15.774	0	23.6	169.3
U33055 ^d	2033-04-20 15:20:30.11	05 51 26.53870	+23 38 19.63661	9.7	7.8	0.658	359.17	22.29	19.516	-13.1	13.239	17.563		9.2	57.6
PgtRgt	3427506158454978688	05 51 26.53801	+23 38 20.29438			9.312	51.48	76.95	22.288	7.0	0.147	17.680	0	23.6	169.2
U33056	2033-04-20 21:36:57.09	05 51 29.12884	+23 38 23.83245	24.5	13.6	3.021	179.17	22.40	19.520		14.592	16.982	16.232	274.8	57.4
XRgt	3427506085439463552	05 51 29.13202	+23 38 20.81208			42.765	51.51	76.94	12.399		0.083	17.105	0	23.6	166.1
U33057	2033-04-22 19:11:59.69	05 51 48.33741	+23 38 23.94319	27.4	16.3	0.627	359.20	23.17	19.547	-13.1	14.813	17.386	16.566	309.3	55.6
PgtRgt	3427500106844987008	05 51 48.33677	+23 38 24.57039			8.893	51.74	76.88	23.211	7.2	0.075	17.546	0	23.6	141.3
U33058	2033-04-22 23:28:30.30	05 51 50.16677	+23 38 28.04406	6.4	3.8	3.122	179.20	23.24	19.549		12.649	14.438	13.830	245.0	55.5
XRgt	3427500076781265152	05 51 50.16994	+23 38 24.92255			44.263	51.76	76.88	11.571		0.180	14.601	0	23.6	138.9
U33059	2033-04-24 05:41:24.96	05 52 03.27933	+23 38 28.42809	30.0	15.9	1.020	179.22	23.75	19.567	-4.2	14.562	17.408	16.476	150.6	54.3
PgtRgt	3427499664464391680	05 52 03.28034	+23 38 27.40778			14.481	51.91	76.84	23.155	13.8	0.092	17.594	0	23.6	121.4
U33060*	2033-04-26 20:51:04.58	05 52 31.54217	+23 38 34.55104	43.7	25.9	1.990	179.26	24.77	19.602		13.072	15.333	14.573	280.7	51.8
PtRgt	3427497912117708160	05 52 31.54404	+23 38 32.56149			28.288	52.23	76.75	20.995		0.153	15.565	0	23.6	83.1
U33061	2033-04-28 02:12:25.59	05 52 45.06852	+23 38 32.35329	6.6	4.3	2.576	359.28	25.24	19.618		12.335	14.565	13.856	199.2	50.7
XRgt	3427497465441099264	05 52 45.06616	+23 38 34.92899			36.652	52.39	76.71	17.775		0.227	14.818	0	23.6	64.9
U33062	2033-04-28 19:26:30.60	05 52 53.11669	+23 38 35.87686	10.8	6.7	0.432	359.29	25.51	19.628	-12.8	13.715	15.898	15.184	300.0	50.0
PgtRgt	3427497323706184192	05 52 53.11630	+23 38 36.30903			6.153	52.48	76.68	25.778	8.7	0.118	16.162	0	23.6	54.3
U33063	2033-04-30 11:32:35.90	05 53 12.16049	+23 38 38.54607	4.4	2.9	0.938	359.32	26.12	19.649	-13.9	10.479	13.445	12.558	56.9	48.5
PgtRgt	3427825566583885184	05 53 12.15968	+23 38 39.48375			13.364	52.70	76.63	25.673	5.1	0.598	13.735	0	23.6	30.0
U33064	2033-05-01 18:56:44.96	05 53 27.36928	+23 38 43.40587	11.3	7.4	1.473	179.34	26.59	19.665	0.4	11.293	15.684	14.529	304.7	47.2
PgtRgt	3427825119907556992	05 53 27.37052	+23 38 41.93296			21.009	52.87	76.58	24.658	13.1	0.633	15.994	0	23.6	12.2
U33065*	2033-05-03 00:07:36.46	05 53 41.73172	+23 38 46.93721	53.1	34.9	2.762	179.36	27.02	19.680		13.856	17.331	16.235	225.8	46.1
XRgt	3427823500701876096	05 53 41.73397	+23 38 44.17565			39.420	53.03	76.54	17.329		0.136	17.657	0	23.6	7.4

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U33066	2033-08-15 05:21:40.93	06 18 37.90646 +23 35 57.74141	13.0	9.9	3.279	1.47	26.33	19.640		13.844	16.151	15.374	50.8	48.0
XRgt	3377545891980655360	06 18 37.91258 +23 36 01.01956			46.710	65.86	71.62	10.823			16.450	0	23.6	70.8
U33067	2033-08-18 01:25:40.85	06 19 10.25380 +23 35 52.28326	41.4	29.9	2.768	181.50	25.31	19.603		14.618	18.128	17.037	107.1	50.6
XRgt	3377542456006816384	06 19 10.24855 +23 35 49.51665			39.348	66.08	71.51	16.751		0.096	18.384	0	23.6	31.3
U33068	2033-08-19 10:59:43.59	06 19 25.74627 +23 35 47.26529	23.1	18.5	3.334	181.51	24.79	19.584		14.635	17.310	16.461	322.3	51.9
XRgt	3377543727317135744	06 19 25.73989 +23 35 43.93268			47.352	66.18	71.45	9.091		0.085	17.543	0	23.6	13.2
U33069*	2033-08-22 15:39:09.48	06 19 59.93780 +23 35 29.81802	31.9	23.6	1.641	1.53	23.56	19.540	-14.4	14.443	16.953	16.143	249.5	54.8
PgtRgt	3377537095886688000	06 19 59.94099 +23 35 31.45823			23.253	66.40	71.34	21.887	-0.2	0.090	17.131	0	23.6	29.5
U33070	2033-08-22 23:49:15.47	06 20 03.48811 +23 35 31.11235	3.8	2.7	0.957	181.53	23.43	19.536	-10.4	9.480	11.220	10.622	126.6	55.1
PgtRgt	3377537095886180096	06 20 03.48628 +23 35 30.15520			13.560	66.42	71.32	23.617	19.3	0.817	11.392	0	23.6	33.7
U33071	2033-08-23 08:47:22.54	06 20 07.35388 +23 35 27.38605	14.6	10.7	1.345	1.54	23.28	19.530	-17.7	14.101	16.498	15.735	351.7	55.5
PgtRgt	3377537130246426624	06 20 07.35650 +23 35 28.73064			19.053	66.45	71.31	22.554	5.5		16.662	0	23.6	38.3
U33072	2033-08-23 09:07:44.75	06 20 07.50460 +23 35 29.73209	15.1	10.9	1.056	181.54	23.27	19.530	-9.3	14.418	16.526	15.829	346.6	55.5
PgtRgt	3377537134544740096	06 20 07.50255 +23 35 28.67684			14.953	66.45	71.31	23.261	19.1		16.691	0	23.6	38.4
U33073	2033-08-28 06:35:25.04	06 20 55.95477 +23 35 11.23296	15.1	12.2	0.528	181.56	21.27	19.459	-14.5	14.164	16.174	15.487	20.1	60.0
PgtRgt	3377488034479165440	06 20 55.95373 +23 35 10.70511			7.452	66.76	71.14	22.038	19.5	0.091	16.241	0	23.6	97.1
U33074	2033-08-29 18:45:12.98	06 21 10.01881 +23 35 08.26561	27.3	22.3	2.812	181.56	20.63	19.437		14.375	17.322	16.439	196.2	61.4
XRgt	3377488201978984192	06 21 10.01326 +23 35 05.45486			39.637	66.85	71.09	13.584		0.100	17.355	0	23.6	114.7
U33075	2033-08-30 01:31:55.61	06 21 12.60419 +23 35 05.36179	42.9	36.3	0.875	181.56	20.51	19.432	-11.6	14.916	18.090	17.145	94.3	61.7
PgtRgt	3377487446064739456	06 21 12.60247 +23 35 04.48746			12.327	66.87	71.08	20.838	19.7		18.117	0	23.6	118.0
U33076	2033-08-30 03:41:25.37	06 21 13.42049 +23 35 02.51564	20.8	17.3	1.666	1.56	20.47	19.431	-14.2	13.902	16.661	15.806	61.8	61.8
PgtRgt	3377487450363302016	06 21 13.42378 +23 35 04.18056			23.472	66.87	71.08	19.038	-0.5	0.119	16.686	0	23.6	119.1
U33077	2033-08-31 19:29:48.62	06 21 28.30781 +23 35 00.87030	6.5	4.9	2.252	181.56	19.75	19.406		10.567	13.993	13.024	183.1	63.3
XRgt	3377581011930633856	06 21 28.30336 +23 34 58.61930			31.693	66.96	71.03	16.236		0.670	13.980	0	23.6	138.7
U33078	2033-09-01 13:51:44.48	06 21 34.99556 +23 34 56.35981	99.1	77.9	0.240	181.56	19.42	19.394	-16.7	14.888	18.838	17.519	266.9	64.0
PgtRgt	3377578155777699072	06 21 34.99508 +23 34 56.11974			3.378	67.01	71.01	20.316	19.0		18.806	0	23.6	147.8
U33079	2033-09-01 15:06:57.64	06 21 35.45147 +23 34 57.78965	4.7	3.6	1.840	181.56	19.39	19.393		11.404	13.420	12.755	248.1	64.1
PRgt	3377578160072345600	06 21 35.44784 +23 34 55.95069			25.875	67.01	71.01	17.509		0.343	13.386	0	23.6	148.5
U33080	2033-09-05 04:56:15.67	06 22 05.20466 +23 34 45.69323	20.8	16.6	0.817	181.54	17.80	19.337	-12.4	14.383	16.850	16.051	37.3	67.4
PgtRgt	3377578847267096064	06 22 05.20306 +23 34 44.87694			11.452	67.20	70.90	18.205	19.9	0.091	16.724	0	23.6	164.2
U33081	2033-09-05 13:46:06.69	06 22 08.12401 +23 34 43.54088	20.2	15.5	0.254	1.54	17.64	19.331	-19.1	14.093	16.585	15.782	264.5	67.8
PgtRgt	3377578778547732608	06 22 08.12451 +23 34 43.79496			3.564	67.21	70.89	18.467	16.8	0.110	16.449	0	23.6	159.4
U33082*	2033-09-05 17:30:46.46	06 22 09.34782 +23 34 39.54879	21.2	16.0	3.792	1.54	17.57	19.329		13.099	15.768	14.913	208.2	67.9
XRt	3377578778547617664	06 22 09.35524 +23 34 43.33958			53.161	67.22	70.89			0.176	15.627	0	23.6	157.3
U33083	2033-09-08 20:32:56.14	06 22 33.00326 +23 34 33.36014	25.1	17.2	1.296	1.52	16.14	19.279	-18.5	14.579	17.328	16.460	159.7	70.9
PgtRgt	3377567263736584832	06 22 33.00576 +23 34 34.65581			18.123	67.37	70.80	15.823	6.9	0.087	17.096	0	23.6	112.5
U33084	2033-09-11 10:39:47.04	06 22 51.09466 +23 34 24.74534	24.2	16.8	3.401	1.48	14.94	19.237		14.422	17.137	16.290	305.5	73.3
XRgt	3377572177179169664	06 22 51.10105 +23 34 28.14566			47.456	67.48	70.74	5.766		0.092	16.821	0	23.6	73.7
U33085	2033-09-15 18:07:06.03	06 23 18.17444 +23 34 18.98597	24.8	18.4	0.169	181.38	12.89	19.165	-17.6	14.590	17.109	16.343	189.5	77.4
PgtRgt	3377568711144234880	06 23 18.17414 +23 34 18.81682			2.352	67.64	70.65	13.551	19.1	0.080	16.633	0	23.5	13.4
U33086	2033-09-16 15:24:02.70	06 23 23.26299 +23 34 20.30837	21.2	15.5	3.161	181.35	12.46	19.150		14.473	16.875	16.119	229.4	78.3
XRgt	3377568745504063744	06 23 23.25757 +23 34 17.14828			43.903	67.67	70.63	6.699		0.084	16.362	0	23.5	5.5
U33087	2033-09-18 07:44:18.37	06 23 32.42601 +23 34 12.61488	61.0	42.3	1.616	1.30	11.64	19.122	-15.6	14.636	18.462	17.256	342.8	79.9
PgtRgt	3377569978155912576	06 23 32.42867 +23 34 14.23083			22.417	67.73	70.60	10.974	1.8		17.874	0	23.5	21.8
U33088	2033-09-24 13:46:00.75	06 24 01.09578 +23 34 04.13140	21.5	16.2	2.217	0.94	8.54	19.016		13.017	16.974	15.904	246.3	85.9
XRgt	3377381789869167872	06 24 01.09843 +23 34 06.34821			30.577	67.90	70.50	7.182		0.231	16.050	0	23.5	96.7
U33089	2033-09-24 16:11:47.86	06 24 01.48699 +23 34 02.84434	50.6	37.7	3.416	0.93	8.49	19.014		14.305	18.305	17.184	209.8	86.0
XRgt	3377381725448071936	06 24 01.49103 +23 34 06.26023			47.112	67.90	70.50	3.177			17.374	0	23.5	97.9
U33090	2033-10-22 18:18:13.14	06 24 19.61167 +23 34 34.91326	5.7	4.3	0.860	184.58	-5.55	18.544	20.4	12.781	14.491	13.909	150.5	113.6
PgtRgt	3377402135133245824	06 24 19.60667 +23 34 34.05577			11.570	67.98	70.43	5.719	-12.0	0.157	13.101	0	23.6	107.7

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U33091	2033-10-23 07:40:06.45	06 24 18.13817 +23 34 36.96478	29.4	22.2	1.307	184.48	-5.82	18.535	19.4	14.944	17.630	16.821	309.5	114.2
PgtRgt	3377405090070124288	06 24 18.13076 +23 34 35.66204			17.567	67.98	70.43	5.775	-6.9	0.069	16.291	0	23.6	114.3
U33092*	2033-10-27 22:22:42.72	06 24 03.22371 +23 34 49.45845	50.4	38.6	0.961	3.86	-7.99	18.465	11.1	14.177	17.852	16.427	84.3	118.8
PgtRgt	3377381897247822208	06 24 03.22840 +23 34 50.41696			12.865	67.88	70.48	8.142	-20.3	0.121	16.856	0	23.6	168.7
U33093	2033-10-28 14:40:05.64	06 24 00.63841 +23 34 52.93921	7.4	5.7	0.143	183.79	-8.30	18.454	18.9	13.076	14.903	14.296	199.2	119.5
PgtRgt	3377381897246759168	06 24 00.63772 +23 34 52.79667			1.912	67.86	70.49	8.742	-17.5	0.137	13.948	0	23.6	174.3
U33094	2033-10-30 18:01:19.09	06 23 51.80946 +23 34 59.38333	8.5	6.3	1.249	3.61	-9.27	18.423	7.9	13.535	15.264	14.662	146.8	121.7
PgtRgt	3377382584441538688	06 23 51.81518 +23 35 00.62990			16.689	67.81	70.52	9.206	-19.5	0.109	14.429	0	23.6	153.3
U33095	2033-11-08 06:56:35.61	06 23 07.04871 +23 35 35.06326	18.7	13.8	1.449	3.14	-12.91	18.304	5.3	13.386	16.709	15.738	304.4	130.4
PgtRgt	3377569703278030208	06 23 07.05448 +23 35 36.51056			19.243	67.52	70.68	12.525	-18.3	0.165	16.234	0	23.6	29.9
U33096***	2033-11-09 14:34:58.00	06 22 58.82356 +23 35 39.29165	18.9	14.5	3.362	3.08	-13.44	18.287		13.439	15.520	14.826	188.4	131.8
XRgt	3377572353276508928	06 22 58.83671 +23 35 42.64904			44.595	67.47	70.71	6.516		0.125	15.089	0	23.6	11.6
U33097	2033-11-14 22:31:36.66	06 22 22.23902 +23 36 09.17985	11.5	8.3	0.318	182.89	-15.49	18.222	19.2	13.052	15.757	14.888	63.9	137.3
PgtRgt	3377567572974261376	06 22 22.23786 +23 36 08.86249			4.200	67.23	70.83	16.187	-16.3	0.174	15.479	0	23.6	59.7
U33098	2033-11-15 08:18:15.71	06 22 19.22490 +23 36 10.68369	38.6	26.1	0.264	2.88	-15.64	18.217	16.6	13.781	17.783	16.505	276.8	137.7
PgtRgt	3377578946047661056	06 22 19.22586 +23 36 10.94725			3.487	67.21	70.84	16.359	-19.0		17.516	0	23.6	64.6
U33099	2033-11-18 14:27:24.64	06 21 54.10118 +23 36 26.85923	24.2	19.0	1.109	2.77	-16.79	18.181	9.6	14.659	17.230	16.393	181.2	141.1
PgtRgt	3377578469309976704	06 21 54.10509 +23 36 27.96742			14.630	67.05	70.93	16.851	-19.6	0.079	17.040	0	23.6	103.2
U33100	2033-11-22 20:21:31.67	06 21 18.69936 +23 36 51.42796	4.9	3.9	0.476	182.64	-18.17	18.137	19.4	11.281	12.774	12.249	88.3	145.5
PgtRgt	3377582111442263040	06 21 18.69780 +23 36 50.95144			6.265	66.82	71.05	18.880	-15.0	0.284	12.669	0	23.6	153.9
U33101	2033-11-23 09:54:37.31	06 21 13.78085 +23 36 55.51125	10.5	8.5	1.453	182.62	-18.34	18.132	18.1	13.465	15.540	14.822	244.5	146.1
PgtRgt	3377582145802004480	06 21 13.77601 +23 36 54.06017			19.102	66.79	71.07	17.790	-5.3	0.119	15.446	0	23.6	160.6
U33102	2033-11-23 23:06:06.57	06 21 08.93455 +23 36 55.73514	23.9	20.7	1.362	2.61	-18.51	18.126	6.5	14.801	17.193	16.438	46.0	146.7
PgtRgt	3377488511216663552	06 21 08.93906 +23 36 57.09577			17.906	66.76	71.08	18.117	-18.6	0.070	17.109	0	23.6	167.1
U33103	2033-11-25 11:56:24.73	06 20 55.18905 +23 37 03.10181	4.2	3.4	2.517	2.56	-18.96	18.112		11.591	12.930	12.448	211.9	148.3
XRgt	3377535343540063616	06 20 55.19727 +23 37 05.61600			33.070	66.67	71.13	15.028		0.256	12.872	0	23.6	170.7
U33104	2033-11-25 14:05:05.62	06 20 54.39133 +23 37 07.49823	6.1	5.3	1.386	182.56	-18.98	18.111	18.4	12.842	14.401	13.850	179.6	148.4
PgtRgt	3377535347838285056	06 20 54.38683 +23 37 06.11387			18.203	66.66	71.13	18.543	-6.2	0.147	14.344	0	23.6	169.8
U33105	2033-11-28 14:16:17.17	06 20 26.48308 +23 37 26.70296	17.7	15.1	3.748	182.47	-19.80	18.085		14.617	16.918	16.182	173.8	151.5
XRgt	3377534695003286016	06 20 26.47132 +23 37 22.95827			49.164	66.48	71.23	4.343		0.073	16.907	0	23.6	131.5
U33106	2033-11-30 10:10:50.18	06 20 08.91680 +23 37 33.30106	25.8	20.2	0.039	182.42	-20.25	18.071	17.7	14.748	17.642	16.859	233.2	153.4
PgtRgt	3377537611282799872	06 20 08.91668 +23 37 33.26254			0.505	66.36	71.29	21.177	-17.3	0.073	17.656	0	23.6	106.4
U33106	2033-12-01 19:51:06.60	06 19 55.17001 +23 37 37.44083	22.2	16.3	3.739	2.38	-20.58	18.060		14.360	17.333	16.435	86.7	154.9
XRgt	3377538130977156096	06 19 55.18131 +23 37 41.17662			48.976	66.27	71.34	4.865		0.103	17.364	0	23.6	86.5
U33108	2033-12-02 15:37:30.19	06 19 47.01181 +23 37 46.42786	18.7	13.7	0.604	182.36	-20.77	18.054	19.3	14.504	17.095	16.299	149.3	155.8
PgtRgt	3377538371495334272	06 19 47.01000 +23 37 45.82425			7.911	66.22	71.37	21.438	-13.8		17.136	0	23.6	74.5
U33109	2033-12-03 02:18:25.13	06 19 42.57532 +23 37 52.00427	14.4	10.3	3.673	182.35	-20.87	18.051		13.774	16.480	15.574	348.6	156.2
XRgt	3377532564699555072	06 19 42.56437 +23 37 48.33473			48.082	66.19	71.38	6.914		0.106	16.526	0	23.6	68.0
U33110	2033-12-05 08:31:22.89	06 19 19.67784 +23 38 01.37388	26.1	21.4	0.311	182.29	-21.34	18.036	18.5	14.865	17.332	16.534	253.0	158.6
PgtRgt	3377544109571670144	06 19 19.67694 +23 38 01.06325			4.067	66.04	71.46	22.215	-15.7	0.067	17.402	0	23.6	34.7
U33111	2033-12-07 13:27:48.50	06 18 56.82955 +23 38 09.67144	15.2	11.4	3.777	2.23	-21.75	18.023		14.157	16.514	15.735	176.7	160.9
XRgt	3377546514753378560	06 18 56.84026 +23 38 13.44601			49.376	65.88	71.54	4.319		0.089	16.605	0	23.6	5.7
U33112	2033-12-07 20:20:33.45	06 18 53.83811 +23 38 14.44595	20.8	15.5	0.605	2.22	-21.80	18.021	13.6	14.440	17.148	16.327	73.2	161.2
PgtRgt	3377546476096559744	06 18 53.83982 +23 38 15.05003			7.901	65.86	71.55	22.479	-19.1	0.089	17.241	0	23.6	5.7
U33113	2033-12-08 18:34:01.33	06 18 44.10328 +23 38 22.42571	20.3	15.0	2.205	182.20	-21.96	18.016		14.077	17.044	16.090	98.9	162.2
PtRgt	3377546613535203200	06 18 44.09712 +23 38 20.22242			28.811	65.80	71.58	18.865		0.104	17.146	0	23.6	15.8
U33114	2033-12-09 00:17:50.23	06 18 41.58086 +23 38 24.29754	14.5	10.8	2.746	182.19	-22.00	18.015		14.032	16.450	15.658	12.7	162.5
XRgt	3377546682254680960	06 18 41.57320 +23 38 21.55324			35.882	65.78	71.59	16.307		0.092	16.554	0	23.6	18.9
U33115*	2033-12-09 09:45:52.59	06 18 37.38795 +23 38 21.97458	22.3	16.6	1.776	2.18	-22.07	18.013	-0.5	13.896	16.173	15.389	230.2	162.9
PgtRgt	3377546308595879808	06 18 37.39287 +23 38 23.74902			23.198	65.75	71.60	20.493	-14.6	0.100	16.279	0	23.6	24.1

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U33116	2033-12-11 03:45:23.25	06 18 18.70902 +23 38 36.02694	76.8	52.3	2.589	182.14	-22.34	18.004		14.982	18.947	17.378	318.6	164.7
XRgt	3377547236307921280	06 18 18.70199 +23 38 33.43999			33.804	65.62	71.67	17.449		0.065	19.067	0	23.6	46.7
U33117	2033-12-11 23:07:39.05	06 18 09.99702 +23 38 35.93996	3.3	2.3	1.944	2.12	-22.45	18.001	-6.8	10.056	11.920	11.276	27.2	165.6
PgtRgt	3425562217600045184	06 18 10.00228 +23 38 37.88176			25.374	65.56	71.70	20.260	-9.5	0.604	12.046	0	23.6	56.9
U33118	2033-12-13 06:25:50.65	06 17 55.84135 +23 38 42.27292	13.3	9.9	2.743	2.08	-22.63	17.995		13.125	16.225	15.276	276.3	167.0
XRgt	3425563115250626048	06 17 55.84861 +23 38 45.01410			35.800	65.47	71.75	16.683		0.175	16.359	0	23.6	72.8
U33119	2033-12-14 18:30:51.87	06 17 39.40123 +23 38 53.68776	27.3	18.8	0.529	182.05	-22.81	17.990	18.7	14.676	17.634	16.719	93.5	168.6
PgtRgt	3425562939154599296	06 17 39.39986 +23 38 53.15959			6.896	65.35	71.80	23.553	-13.9	0.075	17.777	0	23.6	90.8
U33120	2033-12-15 08:13:25.92	06 17 33.11588 +23 38 56.11575	23.2	15.9	0.115	2.03	-22.87	17.988	16.4	14.177	17.255	16.334	247.2	169.2
PgtRgt	3425564386560769024	06 17 33.11617 +23 38 56.23086			1.503	65.31	71.82	23.824	-17.4	0.107	17.401	0	23.6	97.6
U33121	2033-12-15 19:04:33.71	06 17 28.12657 +23 38 57.42791	20.4	13.6	1.226	2.02	-22.92	17.986	7.7	14.254	16.945	16.113	84.0	169.6
PgtRgt	3425564450983088128	06 17 28.12972 +23 38 58.65268			15.987	65.28	71.84	22.673	-18.5	0.092	17.093	0	23.6	102.9
U33122	2033-12-16 20:29:23.31	06 17 16.40719 +23 39 02.34320	6.7	4.6	1.948	1.99	-23.02	17.983	-7.1	12.890	14.674	14.039	61.7	170.8
PgtRgt	3425564558359475072	06 17 16.41212 +23 39 04.28971			25.403	65.20	71.88	20.761	-9.2	0.147	14.826	0	23.6	115.4
U33123	2033-12-17 04:19:10.29	06 17 12.78603 +23 39 03.89185	29.2	21.0	2.125	1.98	-23.05	17.982		14.577	17.585	16.669	303.9	171.1
PtRgt	3425565314273721984	06 17 12.79139 +23 39 06.01576			27.716	65.17	71.89	20.157		0.088	17.739	0	23.6	119.3
U33124	2033-12-17 21:01:43.06	06 17 05.05189 +23 39 10.82572	11.6	8.5	1.145	181.96	-23.11	17.980	18.6	13.630	15.914	15.156	52.5	171.8
PgtRgt	3425565176834775296	06 17 05.04904 +23 39 09.68154			14.929	65.12	71.92	23.010	-8.5	0.118	16.071	0	23.6	127.6
U33125	2033-12-19 10:38:52.63	06 16 47.55018 +23 39 18.56332	25.6	18.3	0.720	181.92	-23.22	17.977	18.7	14.524	17.124	16.286	206.6	173.5
PgtRgt	3425571052347914752	06 16 47.54842 +23 39 17.84381			9.386	64.99	71.98	23.755	-12.3	0.085	17.286	0	23.6	146.4
U33126	2033-12-20 23:59:34.22	06 16 30.09130 +23 39 23.50688	15.1	11.8	2.306	1.88	-23.31	17.974		13.904	15.973	15.262	4.9	175.2
XRgt	3425571907045778048	06 16 30.09682 +23 39 25.81149			30.059	64.87	72.04	19.612		0.100	16.139	0	23.6	165.2
U33127	2033-12-21 07:05:49.06	06 16 26.76063 +23 39 23.47282	9.1	7.1	3.840	1.88	-23.32	17.973		12.833	14.847	14.167	258.0	175.5
XRgt	3425571602105888256	06 16 26.76978 +23 39 27.31122			50.062	64.85	72.05	2.271		0.154	15.013	0	23.6	168.6
U33128	2033-12-21 12:08:49.60	06 16 24.39495 +23 39 24.79215	22.8	17.2	3.584	1.87	-23.33	17.973		14.772	17.004	16.287	182.0	175.7
XRgt	3425571597808133376	06 16 24.40346 +23 39 28.37410			46.717	64.83	72.06	9.735		0.067	17.172	0	23.6	170.9
U33129	2033-12-22 00:20:26.24	06 16 18.69084 +23 39 32.88416	62.3	48.4	1.956	181.86	-23.35	17.972		14.873	18.628	17.600	358.6	176.2
PtRgt	3425571838326304000	06 16 18.68622 +23 39 30.92896			25.499	64.79	72.08	21.037		0.085	18.796	0	23.6	174.6
U33130	2033-12-22 10:41:39.69	06 16 13.81886 +23 39 29.26016	38.0	27.9	3.827	1.84	-23.36	17.972		14.557	17.867	16.942	202.8	176.7
XRgt	3425574690184589440	06 16 13.82783 +23 39 33.08540			49.886	64.76	72.09	4.874		0.081	18.035	0	23.6	173.0
U33131	2033-12-23 04:54:51.63	06 16 05.26536 +23 39 34.30598	19.2	15.0	2.547	1.83	-23.38	17.971		14.219	16.574	15.800	288.8	177.5
XRgt	3425573247075578496	06 16 05.27126 +23 39 36.85150			33.195	64.70	72.12	18.461		0.091	16.744	0	23.6	164.6
U33132	2033-12-24 15:27:29.19	06 15 49.02372 +23 39 40.51103	37.8	30.6	3.381	1.79	-23.41	17.970		14.452	17.975	16.829	129.1	179.0
XRgt	3425574106069038720	06 15 49.03140 +23 39 43.89027			44.064	64.58	72.18	12.203		0.102	18.146	0	23.6	146.1
U33133	2033-12-25 22:24:24.06	06 15 34.47555 +23 39 50.95284	5.1	4.1	0.877	181.75	-23.41	17.970	18.6	10.557	13.847	12.901	23.6	179.5
PgtRgt	3425574041647362304	06 15 34.47360 +23 39 50.07660			11.425	64.48	72.23	23.711	-10.8	0.610	14.018	0	23.6	128.9
U33134	2033-12-26 21:06:43.84	06 15 23.78889 +23 39 51.60144	11.1	7.5	2.941	1.73	-23.40	17.970		13.587	15.532	14.875	42.0	178.6
XRgt	3425620908330506752	06 15 23.79535 +23 39 54.54090			38.328	64.40	72.26	15.936		0.106	15.703	0	23.6	116.0
U33135	2033-12-30 22:51:50.69	06 14 37.95322 +23 40 10.77392	59.0	48.8	2.235	1.63	-23.24	17.974		14.715	18.692	17.542	11.5	174.3
PRgt	3425247997793074304	06 14 37.95785 +23 40 13.00760			29.130	64.07	72.42	19.795		0.085	18.855	0	23.7	58.9
U34001	2034-01-01 04:54:33.90	06 14 23.94030 +23 40 14.32832	34.6	29.0	4.106	1.60	-23.16	17.976		14.680	18.031	17.094	279.5	172.9
XRt	3425248758003944320	06 14 23.94864 +23 40 18.43265			53.531	63.97	72.47	0.086		0.086	18.191	0	23.7	41.0
U34002	2034-01-02 05:58:42.12	06 14 12.30285 +23 40 23.84681	16.3	13.3	0.980	181.57	-23.09	17.978	18.2	14.395	16.873	16.079	262.4	171.8
PgtRgt	3425248620565002112	06 14 12.30089 +23 40 22.86705			12.780	63.89	72.51	23.202	-9.6	0.080	17.029	0	23.7	26.2
U34003	2034-01-02 19:26:44.44	06 14 06.06847 +23 40 28.95368	15.7	12.8	3.740	181.56	-23.04	17.980		14.235	16.786	15.936	59.8	171.2
XRgt	3425260302876051328	06 14 06.06105 +23 40 25.21460			48.776	63.84	72.53	5.790		0.092	16.939	0	23.7	18.4
U34004	2034-01-03 05:35:14.10	06 14 01.36279 +23 40 22.88670	18.5	15.1	4.081	1.55	-23.00	17.981		14.678	17.076	16.388	267.3	170.8
XRt	3425260302876056960	06 14 01.37083 +23 40 26.96604			53.218	63.81	72.54	0.071		0.071	17.228	0	23.7	12.7
U34005	2034-01-08 02:12:23.89	06 13 08.09354 +23 40 46.41061	22.0	16.5	0.348	181.44	-22.46	17.997	17.2	14.632	17.286	16.443	313.0	165.6
PgtRgt	3425257618521111040	06 13 08.09291 +23 40 46.06285			4.541	63.41	72.72	23.203	-14.1	0.074	17.412	0	23.7	54.8

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U34006	2034-01-09 16:27:06.06	06 12 50.93765 +23 40 51.28246	19.3	14.5	0.616	1.40	-22.24	18.004	12.3	14.652	16.808	16.075	97.7	163.9
PgtRgt	3425257790319803904	06 12 50.93874 +23 40 51.89778			8.037	63.28	72.78	22.764	-17.7	0.069	16.923	0	23.7	74.7
U34007	2034-01-10 01:53:25.02	06 12 46.72906 +23 40 50.71442	22.8	16.2	2.592	1.39	-22.18	18.006		14.988	17.216	16.425	315.7	163.5
XRgt	3425445085251840896	06 12 46.73365 +23 40 53.30521			33.843	63.25	72.80	17.212		0.061	17.329	0	23.7	79.5
U34008	2034-01-11 01:07:27.81	06 12 36.43280 +23 40 56.42869	15.7	10.8	0.286	1.37	-22.02	18.010	14.3	14.755	16.618	15.937	326.2	162.5
PgtRgt	3425445226988259456	06 12 36.43329 +23 40 56.71431			3.732	63.18	72.83	22.767	-16.9	0.064	16.723	0	23.7	91.2
U34009	2034-01-11 20:25:14.88	06 12 27.94197 +23 41 02.84496	17.6	12.7	3.362	181.35	-21.89	18.015		14.764	16.862	16.108	35.9	161.6
XRgt	3425422545263482624	06 12 27.93620 +23 40 59.48401			43.924	63.11	72.86	11.566		0.063	16.960	0	23.7	100.8
U34010*	2034-01-11 22:24:06.84	06 12 27.07280 +23 41 03.20797	14.3	9.9	3.444	181.35	-21.88	18.015		13.200	15.170	14.488	6.1	161.6
XRgt	3425422549560940416	06 12 27.06690 +23 40 59.76520			44.995	63.11	72.86	10.644		0.131	15.268	0	23.7	101.7
U34011	2034-01-12 20:19:43.78	06 12 17.48074 +23 41 00.35808	12.9	9.7	2.481	1.33	-21.71	18.020		14.539	16.198	15.626	36.3	160.6
XRgt	342542268699898752	06 12 17.48493 +23 41 02.83859			32.427	63.03	72.89	17.368		0.066	16.287	0	23.7	112.5
U34012	2034-01-15 19:10:51.63	06 11 47.04749 +23 41 08.63361	6.3	4.9	3.641	1.26	-21.14	18.037		11.590	14.782	13.828	50.4	157.5
XRgt	3425426226052968576	06 11 47.05332 +23 41 12.27325			47.625	62.80	73.00	7.895		0.363	14.842	0	23.7	147.6
U34013	2034-01-16 07:07:21.01	06 11 42.01650 +23 41 17.81403	17.6	13.2	4.027	181.25	-21.03	18.041		13.586	16.731	15.807	230.8	156.9
XRt	3425424813006230656	06 11 42.01012 +23 41 13.78762			52.695	62.76	73.01			0.135	16.786	0	23.7	153.6
U34014	2034-01-16 14:49:26.59	06 11 38.77162 +23 41 14.83459	4.9	3.7	0.082	181.24	-20.97	18.043	15.9	11.099	13.671	12.871	114.9	156.6
PgtRgt	3425424782943736576	06 11 38.77149 +23 41 14.75256			1.074	62.74	73.02	21.709	-15.2	0.395	13.722	0	23.7	157.5
U34015	2034-01-18 04:28:43.93	06 11 23.10154 +23 41 20.43009	4.9	3.7	1.089	181.20	-20.61	18.054	17.6	10.613	13.484	12.620	268.5	154.9
PgtRgt	3425436293456105728	06 11 23.09987 +23 41 19.34119			14.261	62.62	73.08	20.480	-8.0	0.540	13.516	0	23.7	174.3
U34016	2034-01-18 19:13:15.39	06 11 17.04104 +23 41 21.39993	20.2	15.3	0.321	181.19	-20.47	18.058	16.7	14.907	16.983	16.248	46.7	154.3
PgtRgt	3425436323518592256	06 11 17.04055 +23 41 21.07928			4.200	62.57	73.10	21.117	-13.8	0.059	17.009	0	23.7	172.1
U34017	2034-01-22 19:18:51.44	06 10 38.68646 +23 41 33.25809	11.2	7.8	1.659	181.10	-19.44	18.089	15.0	13.780	15.807	15.112	41.2	150.1
PgtRgt	3425434163152369920	06 10 38.68415 +23 41 31.59954			21.763	62.28	73.22	18.185	-0.8	0.107	15.776	0	23.7	119.5
U34018	2034-01-24 15:33:11.02	06 10 21.74374 +23 41 36.79779	14.4	10.1	0.820	181.06	-18.92	18.105	17.4	13.986	16.186	15.469	95.8	148.1
PgtRgt	3425435017848554880	06 10 21.74264 +23 41 35.97817			10.764	62.14	73.28	19.119	-10.2	0.094	16.126	0	23.7	93.6
U34019	2034-01-26 23:53:55.02	06 10 00.87987 +23 41 44.05547	13.8	9.8	2.908	181.01	-18.21	18.127		14.407	16.192	15.578	328.2	145.7
XRgt	3425480651878424704	06 10 00.87614 +23 41 41.14747			38.236	61.98	73.35	12.474		0.074	16.091	0	23.7	60.4
U34020	2034-01-29 19:33:06.45	06 09 36.94186 +23 41 49.35820	14.0	10.9	2.581	180.95	-17.31	18.154		14.367	15.760	15.251	30.5	142.7
XRgt	3425481266056419712	06 09 36.93873 +23 41 46.77746			33.985	61.79	73.43	13.349		0.069	15.603	0	23.7	21.3
U34021	2034-01-30 15:16:32.10	06 09 30.20293 +23 41 51.00924	24.1	17.8	2.705	180.94	-17.03	18.163		14.841	17.139	16.352	93.8	141.8
XRgt	3425387601412594304	06 09 30.19972 +23 41 48.30422			35.638	61.74	73.45	12.588		0.065	16.965	0	23.7	10.6
U34022	2034-01-30 21:45:41.44	06 09 28.00638 +23 41 47.48418	8.4	6.3	1.311	0.93	-16.94	18.166	5.3	13.150	14.935	14.317	356.3	141.6
PgtRgt	3425387605706768640	06 09 28.00793 +23 41 48.79519			17.275	61.72	73.46	16.459	-16.7	0.130	14.755	0	23.7	7.6
U34023	2034-02-03 06:03:42.81	06 09 01.89295 +23 41 52.10288	14.1	10.5	2.315	0.87	-15.77	18.202		14.233	16.315	15.680	228.3	138.1
PRgt	3425390320125767168	06 09 01.89549 +23 41 54.41786			30.564	61.51	73.55	13.046		0.083	16.057	0	23.7	40.1
U34024	2034-02-04 02:50:47.71	06 08 55.44929 +23 41 51.72406	5.0	3.8	4.017	0.85	-15.46	18.212		12.952	13.863	13.539	275.7	137.2
XRt	3425391106105170944	06 08 55.45363 +23 41 55.74015			53.052	61.46	73.57			0.123	13.584	0	23.7	51.3
U34025	2034-02-06 00:52:40.04	06 08 41.66969 +23 42 00.85788	16.1	12.0	2.377	180.81	-14.74	18.234		14.181	16.669	15.871	303.3	135.2
XRgt	3425389766075646976	06 08 41.66724 +23 41 58.48105			31.436	61.35	73.61	12.005		0.163	16.338	0	23.7	75.5
U34026	2034-02-07 22:41:31.37	06 08 28.61916 +23 42 00.29213	13.7	9.7	0.666	0.77	-14.01	18.257	10.9	13.585	16.180	15.379	334.1	133.2
PgtRgt	3425401383961555968	06 08 28.61982 +23 42 00.95764			8.813	61.24	73.66	14.251	-16.9	0.130	15.794	0	23.7	98.7
U34027	2034-02-11 00:15:24.93	06 08 09.12498 +23 42 03.24473	8.3	6.2	1.176	0.71	-12.78	18.296	6.5	13.315	15.190	14.551	307.6	130.0
PgtRgt	3425396436159251328	06 08 09.12604 +23 42 04.42047			15.602	61.09	73.72	12.565	-16.8	0.125	14.704	0	23.7	134.9
U34028	2034-02-12 06:21:10.61	06 08 01.68145 +23 42 02.26147	8.8	6.7	3.398	0.68	-12.26	18.312		13.045	15.262	14.540	214.8	128.7
XRgt	3425396470518996608	06 08 01.68440 +23 42 05.65962			45.134	61.03	73.75	5.768		0.155	14.731	0	23.7	149.7
U34029	2034-02-14 20:47:54.44	06 07 47.26164 +23 42 06.47192	14.6	11.0	1.442	0.62	-11.16	18.347	3.4	14.282	16.188	15.545	355.5	126.0
PgtRgt	3425399180642135680	06 07 47.26278 +23 42 07.91396			19.190	60.91	73.80	10.679	-15.9	0.082	15.554	0	23.7	174.0
U34030	2034-02-22 09:45:38.87	06 07 13.59262 +23 42 16.27820	10.3	7.6	4.093	180.41	-7.74	18.454		13.519	15.450	14.787	153.5	118.3
XRt	3426149189309305088	06 07 13.59048 +23 42 12.18516			54.784	60.63	73.91			0.104	14.419	0	23.7	71.9

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U34031*	2034-02-22 20:43:51.74	06 07 11.95177 +23 42 13.74250	39.5	30.0	1.397	180.40	-7.52	18.461	15.9	14.525	16.622	15.731	348.5	117.8
PgtRgt	3426149223669044992	06 07 11.95106 +23 42 12.34521			18.709	60.62	73.91	7.235	-3.8	0.068	15.561	0	23.7	65.3
U34032	2034-02-25 14:53:08.95	06 07 03.06299 +23 42 12.88505	6.0	4.9	0.212	0.30	-6.21	18.503	13.5	12.512	14.216	13.646	73.4	115.0
PgtRgt	3426149047570851840	06 07 03.06307 +23 42 13.09754			2.852	60.54	73.94	6.439	-15.4	0.173	12.947	0	23.7	26.4
U34033	2034-03-04 00:56:35.50	06 06 49.08998 +23 42 13.09037	9.9	7.1	0.411	359.78	-3.08	18.603	12.4	11.593	15.283	14.266	276.2	108.5
PgtRgt	3426149773424875008	06 06 49.08986 +23 42 13.50171			5.550	60.43	73.99	3.250	-16.0		13.253	0	23.7	59.5
U34034	2034-03-16 08:05:33.10	06 06 49.08998 +23 42 13.09031	10.1	7.2	3.669	181.71	3.13	18.806		11.593	15.283	14.266	156.8	96.2
XRgt	3426149773424875008	06 06 49.08200 +23 42 09.42325			50.038	60.43	73.99	0.304			13.270	0	23.7	149.9
U34035	2034-03-23 16:34:32.11	06 07 06.04297 +23 42 01.53778	19.4	14.6	2.438	1.17	6.91	18.930		14.182	16.568	15.816	22.4	89.0
XRgt	3426149047570848896	06 07 06.04660 +23 42 03.97499			33.467	60.58	73.93	5.354		0.097	15.414	0	23.7	43.7
U34036	2034-03-25 15:34:51.39	06 07 12.69483 +23 42 05.63513	16.4	12.2	3.484	181.12	7.91	18.963		12.954	16.325	15.332	35.4	87.1
XRgt	3426149154949568128	06 07 12.68986 +23 42 02.15202			47.912	60.63	73.91	2.526		0.200	15.317	0	23.7	16.1
U34037	2034-03-25 17:18:29.46	06 07 12.95233 +23 42 03.17644	60.6	43.3	1.095	181.12	7.95	18.964	-6.6	13.611	18.276	17.404	9.5	87.0
PgtRgt	3426149150658292608	06 07 12.95077 +23 42 02.08197			15.056	60.63	73.91	7.851	16.7		17.274	0	23.7	15.2
U34038	2034-03-26 14:28:08.71	06 07 16.24855 +23 42 04.81902	20.3	15.4	3.614	181.10	8.39	18.979		14.908	16.828	16.163	51.2	86.1
XRgt	3426149189309304320	06 07 16.24348 +23 42 01.20613			49.739	60.66	73.90	1.645		0.060	15.886	0	23.7	5.9
U34039	2034-03-28 15:32:07.31	06 07 24.55758 +23 41 58.21585	6.3	4.7	0.832	1.07	9.42	19.013	-16.8	12.743	14.397	13.817	33.2	84.1
PgtRgt	3425398635182550528	06 07 24.55870 +23 41 59.04742			11.469	60.73	73.87	9.490	9.1	0.161	13.580	0	23.7	26.1
U34040	2034-04-01 00:25:38.84	06 07 40.32207 +23 41 58.95917	24.1	18.0	3.869	181.04	11.10	19.069		14.949	17.159	16.424	256.6	80.9
XRt	3425399219298086528	06 07 40.31698 +23 41 55.09090			53.509	60.86	73.82			0.065	16.520	0	23.7	68.2
U34041*	2034-04-03 13:56:31.42	06 07 53.97744 +23 41 49.77981	9.0	7.2	1.948	1.02	12.36	19.112		11.533	12.106	11.896	51.4	78.4
PtRgt	3425399283719866880	06 07 53.98000 +23 41 51.72756			27.009	60.98	73.77	10.785		0.231	11.584	0	23.7	99.1
U34042	2034-04-04 23:17:01.01	06 08 01.97830 +23 41 46.51060	5.8	4.4	3.258	1.02	13.04	19.135		12.651	14.270	13.704	269.9	77.1
XRgt	3425396367439782144	06 08 01.98252 +23 41 49.76783			45.211	61.04	73.75	6.123		0.166	13.806	0	23.7	115.6
U34043	2034-04-05 19:50:49.62	06 08 07.12945 +23 41 51.71525	24.9	18.7	3.206	181.02	13.46	19.149		14.971	17.247	16.515	320.6	76.2
XRgt	3425396431863062400	06 08 07.12529 +23 41 48.50931			44.531	61.08	73.73	6.774		0.067	16.817	0	23.7	125.7
U34044	2034-04-07 00:13:09.85	06 08 14.48141 +23 41 49.03190	9.9	7.2	2.322	181.02	14.03	19.168		13.941	15.218	14.772	253.9	75.1
XRgt	3425402036796599808	06 08 14.47839 +23 41 46.71058			32.276	61.14	73.71	11.135		0.084	14.833	0	23.7	139.5
U34045	2034-04-07 11:58:27.24	06 08 17.61001 +23 41 44.57371	18.3	13.2	1.370	1.02	14.26	19.176	-16.0	14.515	16.588	15.905	77.1	74.6
PgtRgt	3425402032500415616	06 08 17.61179 +23 41 45.94324			19.050	61.17	73.70	13.669	3.5	0.079	16.220	0	23.7	145.2
U34046	2034-04-08 15:12:34.38	06 08 25.06445 +23 41 42.76930	14.0		1.346	1.02	14.80	19.195	-16.2	13.861	16.052	15.334	27.5	73.5
PgtRgt	3425401349601823104	06 08 25.06620 +23 41 44.11481			18.734	61.23	73.67	14.191	3.8	0.106	15.725	0	23.7	158.4
U34047	2034-04-08 20:10:50.37	06 08 26.45758 +23 41 44.97921	12.5	8.9	1.206	181.03	14.90	19.198	-5.5	13.725	15.990	15.248	312.8	73.3
PgtRgt	3425401349601820800	06 08 26.45601 +23 41 43.77331			16.793	61.24	73.67	14.539	16.7	0.116	15.671	0	23.7	160.8
U34048	2034-04-10 08:47:08.50	06 08 36.96098 +23 41 37.62243	67.1	47.7	3.559	1.03	15.63	19.222		14.942	18.628	17.618	122.2	71.9
XRgt	3425401482744601344	06 08 36.96564 +23 41 41.18132			49.624	61.33	73.63	3.464			18.360	0	23.7	174.5
U34049	2034-04-12 19:39:19.54	06 08 54.87079 +23 41 33.06171	6.7	5.0	3.661	1.04	16.78	19.261		12.423	14.537	13.837	316.8	69.5
XRt	3425389559916944512	06 08 54.87564 +23 41 36.72190			51.140	61.47	73.57	0.106		0.202	14.346	0	23.7	148.8
U34050	2034-04-12 21:20:21.29	06 08 55.40664 +23 41 37.05593	22.6	16.8	0.467	181.05	16.81	19.263	-12.2	14.853	17.099	16.447	291.5	69.5
PgtRgt	3425389564211532544	06 08 55.40602 +23 41 36.58884			6.527	61.48	73.57	17.222	16.6	0.067	16.910	0	23.7	147.9
U34051*	2034-04-12 23:26:20.69	06 08 56.07139 +23 41 38.34196	55.0	41.8	1.920	181.05	16.85	19.264		14.565	17.708	16.661	259.9	69.4
PtRgt	3425391037385691904	06 08 56.06883 +23 41 36.42248			26.823	61.48	73.57	14.784		0.094	17.522	0	23.7	146.8
U34052	2034-04-14 04:49:14.53	06 09 05.50446 +23 41 33.09927	8.2	6.0	0.946	1.05	17.42	19.283	-17.2	13.309	15.003	14.412	178.0	68.2
PgtRgt	3425390247112447488	06 09 05.50573 +23 41 34.04496			13.228	61.56	73.54	17.369	8.3		14.853	0	23.7	130.7

^a A nearby event has the same 2MASS ID as this event, resulting in a corresponding K magnitude ambiguity.

* Superscript * indicates RUWE > 1.4, ** indicates RUWE > 2, and *** indicates RUWE > 5. See machine-readable file for RUWE values.

Table 5. Geocentric Uranus Occultation Predictions 2023–2050 for $K \leq 15$ (part 5 of 7)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U34053	2034-04-14 12:45:42.30	06 09 08.10675 +23 41 32.36877	15.1	11.5	1.018	1.06	17.57	19.288	-17.1	14.811	16.298	15.748	58.6	67.9
PgtRgt	3425390354485868160	06 09 08.10811 +23 41 33.38619			14.235	61.58	73.53	17.427	7.6	0.061	16.157	0	23.7	126.2
U34054*	2034-04-15 12:15:13.67	06 09 15.93006 +23 41 27.71505	34.3	25.6	3.682	1.06	18.02	19.304		14.752	17.041	16.290	65.3	67.0
XRt	3425390113967687296	06 09 15.93502 +23 41 31.39677			51.554	61.64	73.50			0.069	16.928	0	23.7	112.6
U34055	2034-04-17 13:16:55.54	06 09 32.88417 +23 41 29.38655	18.7	13.9	2.339	181.08	18.94	19.335		14.109	16.523	15.742	47.9	65.1
XRgt	3425387429613900160	06 09 32.88097 +23 41 27.04756			32.806	61.78	73.45	14.969		0.101	16.464	0	23.7	82.8
U34056	2034-04-18 13:56:50.81	06 09 41.71236 +23 41 23.22443	19.6	13.9	1.532	1.09	19.40	19.351	-15.0	14.791	16.577	15.922	37.0	64.1
PgtRgt	3425480445720015104	06 09 41.71447 +23 41 24.75589			21.497	61.85	73.42	18.169	1.0	0.065	16.544	0	23.7	67.4
U34057	2034-04-20 03:38:43.04	06 09 55.60969 +23 41 22.97462	21.5	15.0	1.858	181.10	20.10	19.374		14.122	16.506	15.714	190.0	62.6
PRgt	3425480338343468672	06 09 55.60709 +23 41 21.11711			26.106	61.96	73.37	17.833		0.097	16.511	0	23.7	43.6
U34058	2034-04-21 00:20:37.65	06 10 03.43139 +23 41 17.43814	12.6	8.8	1.609	1.11	20.47	19.387	-14.2	13.916	15.806	15.185	238.7	61.8
PgRgt	3425433716475813376	06 10 03.43365 +23 41 19.04683			22.624	62.02	73.35	18.950	-0.4	0.098	15.831	0	23.7	30.8
U34059	2034-04-21 09:10:05.54	06 10 06.80782 +23 41 14.72795	20.5	13.8	3.421	1.11	20.63	19.393		14.874	16.809	16.154	106.0	61.4
XRg	3425433750835550336	06 10 06.81265 +23 41 18.14852			48.119	62.04	73.33	7.086		0.064	16.843	0	23.7	25.5
U34060	2034-04-22 09:49:36.49	06 10 16.39249 +23 41 19.10654	5.1	3.5	3.520	181.12	21.07	19.408		10.775	13.555	12.703	95.1	60.5
XRgt	3425433613396587648	06 10 16.38748 +23 41 15.58727			49.547	62.12	73.30	5.266		0.526	13.612	0	23.7	11.3
U34061	2034-04-23 15:28:52.77	06 10 28.15913 +23 41 13.18314	58.6	42.7	0.775	181.13	21.59	19.426	-10.1	14.481	18.382	17.132	9.2	59.3
PgtRgt	3425434296294025856	06 10 28.15802 +23 41 12.40800			10.923	62.21	73.26	21.806	17.5		18.465	0	23.7	9.3
U34062	2034-04-27 05:13:36.94	06 11 03.71871 +23 41 01.64745	4.1	3.1	0.937	1.17	23.06	19.477	-17.6	10.843	12.150	11.679	159.6	56.0
PgtRgt	3425431341355934464	06 11 03.72014 +23 41 02.58423			13.242	62.49	73.14	23.031	8.7	0.404	12.305	0	23.7	54.6
U34063	2034-04-27 20:26:12.49	06 11 10.25974 +23 41 01.07193	26.3	19.8	0.332	181.18	23.31	19.486	-13.6	14.723	17.394	16.569	290.9	55.4
PgtRgt	3425436430895071616	06 11 10.25924 +23 41 00.73981			4.695	62.54	73.12	24.028	16.8	0.077	17.560	0	23.7	62.5
U34064	2034-04-28 17:54:34.77	06 11 19.60136 +23 40 54.67596	28.3	21.3	3.407	1.19	23.66	19.498		14.212	17.327	16.316	327.9	54.5
XRg	3425436327815848832	06 11 19.60651 +23 40 58.08215			48.178	62.61	73.09	7.325		0.106	17.510	0	23.7	73.4
U34065	2034-04-29 16:27:55.04	06 11 29.56662 +23 40 53.64429	20.0	15.0	1.577	1.20	24.03	19.511	-14.6	14.654	16.559	15.858	348.7	53.7
PgtRgt	3425424920382701440	06 11 29.56903 +23 40 55.22060			22.311	62.69	73.06	22.367	0.2	0.071	16.759	0	23.7	84.7
U34066	2034-04-30 16:57:33.18	06 11 40.55674 +23 40 54.79583	4.6	3.3	2.766	181.22	24.42	19.525		10.948	11.889	11.530	340.3	52.7
XRgt	3425424778645906432	06 11 40.55250 +23 40 52.03018			39.167	62.77	73.02	15.983		0.339	12.106	0	23.7	96.8
U34067	2034-05-02 00:31:45.13	06 11 54.96326 +23 40 51.14230	12.9	9.7	3.352	181.24	24.92	19.542		13.886	16.022	15.308	225.5	51.5
XRgt	3425425435778981888	06 11 54.95799 +23 40 47.79146			47.503	62.88	72.97	8.575		0.102	16.260	0	23.7	112.3
U34068	2034-05-02 13:29:58.29	06 12 00.96039 +23 40 48.47804	14.0	9.7	2.471	181.24	25.12	19.549		14.082	16.004	15.352	30.5	51.0
XRgt	3425425332699763712	06 12 00.95648 +23 40 46.00745			35.037	62.93	72.95	18.918		0.092	16.252	0	23.7	118.7
U34069	2034-05-04 19:02:01.46	06 12 26.20147 +23 40 40.22060	13.5	9.7	1.845	181.28	25.94	19.578		14.072	16.016	15.363	305.4	48.9
PRgt	3425422549560941952	06 12 26.19848 +23 40 38.37613			26.196	63.12	72.87	23.064		0.094	16.298	0	23.7	144.8
U34070	2034-05-04 22:15:03.98	06 12 27.73678 +23 40 35.96305	7.8	5.4	1.941	1.28	25.99	19.580		11.622	14.940	13.989	257.0	48.8
PtRgt	3425421793646697344	06 12 27.73994 +23 40 37.90346			27.561	63.13	72.86	22.656		0.402	15.224	0	23.7	146.3
U34071	2034-05-08 12:07:00.66	06 13 09.87676 +23 40 27.90663	11.7	8.8	3.227	181.34	27.25	19.624		13.539	15.881	15.089	45.7	45.5
XRgt	3425256866902263424	06 13 09.87127 +23 40 24.68059			45.927	63.44	72.72	11.605		0.131	16.217	0	23.7	168.9
U34072	2034-05-08 18:50:17.41	06 13 13.24376 +23 40 20.94348	62.3	50.8	2.652	1.34	27.35	19.627		14.461	18.524	17.565	304.6	45.2
XRg	3425256862608454144	06 13 13.24828 +23 40 23.59478			37.751	63.47	72.71	18.938			18.864	0	23.7	165.8
U34073	2034-05-08 19:09:48.21	06 13 13.40995 +23 40 22.35859	22.9	17.4	1.184	1.34	27.35	19.627	-17.5	13.281	17.161	16.479	299.7	45.2
PgRgt	3425256862605580288	06 13 13.41197 +23 40 23.54205			16.851	63.47	72.71	26.757	6.3	0.182	17.501	0	23.7	165.7
U34074	2034-05-08 21:38:03.01	06 13 14.65878 +23 40 24.53534	19.1	14.2	1.395	181.35	27.39	19.628	-3.4	13.925	16.772	15.888	262.5	45.1
PgtRgt	3425258275651531520	06 13 14.65639 +23 40 23.14091			19.856	63.48	72.70	26.151	16.4	0.122	17.114	0	23.7	164.5
U34075	2034-08-20 14:13:53.54	06 38 08.50306 +23 26 06.69939	41.9	35.3	1.510	183.34	26.17	19.568	-4.8	13.963	17.580	16.426	277.6	48.4
PgtRgt	3382406699745717248	06 38 08.49666 +23 26 05.19230			21.425	72.49	67.49	25.443	18.5		17.872	0	23.4	122.6
U34076	2034-08-21 17:24:28.60	06 38 21.48524 +23 25 54.65436	24.9	19.4	0.072	3.36	25.76	19.553	-22.2	14.834	17.073	16.379	228.9	49.5
PgRg	3382408039775495936	06 38 21.48554 +23 25 54.72594			1.017	72.56	67.45	27.638	21.5	0.074	17.348	0	23.4	135.9

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U34077	2034-08-22 07:06:47.27	06 38 27.94690	+23 25 46.14046	40.2	30.7	3.361	3.36	25.55	19.546		14.574	17.569	17.055	22.8	50.0
XRgt	3382396250089393920	06 38 27.96122	+23 25 49.49547			47.643	72.59	67.42	9.637		0.090	17.835	0	23.4	142.6
U34078	2034-08-22 08:05:30.37	06 38 28.40840	+23 25 46.00867	8.9	6.5	3.120	3.36	25.54	19.545		12.083	14.775	13.974	8.0	50.0
XRgt	3382396254385222656	06 38 28.42170	+23 25 49.12325			44.227	72.59	67.42	13.495		0.282	15.040	0	23.4	143.1
U34079 ^d	2034-08-31 05:04:17.34	06 40 02.23778	+23 24 33.24119	16.1	13.2	0.653	183.41	22.09	19.422	-17.7	13.848	16.105		45.0	58.2
PgtRgt	3379766256931061760	06 40 02.23496	+23 24 32.58939			9.198	73.05	67.09	23.374	23.9	0.097	16.213	0	23.4	102.1
U34080 ^d	2034-08-31 05:04:57.69	06 40 02.24536	+23 24 33.92782	15.6	12.3	1.345	183.41	22.09	19.422	-8.6	13.848	16.016	14.846	44.8	58.2
PgtRgt	3379766256927460992	06 40 02.23955	+23 24 32.58562			18.940	73.05	67.09	22.057	20.9	0.097	16.124	0	23.4	102.1
U34081	2034-09-01 02:51:54.24	06 40 11.10088	+23 24 28.82897	15.5	11.7	3.516	183.41	21.72	19.409		14.555	16.183	15.652	77.2	59.1
XRgt	337976535376552704	06 40 11.08567	+23 24 25.31942			49.490	73.09	67.05	4.434		0.072	16.273	0	23.4	89.2
U34082	2034-09-04 09:03:26.61	06 40 41.64040	+23 24 01.76805	7.3	5.5	1.544	183.41	20.35	19.360	-4.8	13.174	14.643	14.121	341.3	62.1
PgtRgt	3379768146717003264	06 40 41.63372	+23 24 00.22698			21.677	73.24	66.94	19.847	18.5	0.130	14.662	0	23.4	42.9
U34083	2034-09-16 05:42:43.82	06 42 15.81282	+23 22 46.79970	4.4	3.1	2.950	183.29	14.98	19.172		11.143	13.351	12.645	20.1	73.3
XRgt	3379776049456705280	06 42 15.80053	+23 22 43.85441			41.021	73.68	66.61	9.407		0.403	13.037	0	23.3	113.6
U34084	2034-09-22 08:09:32.24	06 42 53.05619	+23 22 15.90294	29.1	24.1	0.863	183.12	12.04	19.070	-16.4	14.180	17.328	16.348	337.6	79.1
PgtRgt	3379729835608552576	06 42 53.05278	+23 22 15.04117			11.937	73.85	66.47	12.675	24.2	0.123	16.777	0	23.3	171.6
U34085	2034-09-23 18:51:39.39	06 43 00.72481	+23 22 12.93931	18.9	13.9	3.589	183.05	11.33	19.046		14.214	16.541	15.835	175.7	80.5
XRgt	3379729659512102400	06 43 00.71093	+23 22 09.35499			49.582	73.88	66.44	2.980		0.095	15.924	0	23.3	154.7
U34086	2034-09-28 13:15:25.13	06 43 22.71108	+23 21 52.19773	14.7	11.8	1.660	2.76	8.98	18.965	-17.0	14.622	16.164	15.695	255.1	85.1
PgtRgt	3379726846311279616	06 43 22.71689	+23 21 53.85599			22.835	73.98	66.36	8.720	3.3		15.294	0	23.3	89.1
U34087	2034-10-04 23:51:06.00	06 43 44.39491	+23 21 38.56879	47.1	36.7	2.615	1.91	5.75	18.855		14.041	17.988	17.336	89.9	91.3
XRgt	3379731789816747008	06 43 44.40123	+23 21 41.18241			35.760	74.08	66.29	4.481		0.132	16.634	0	23.3	6.8
U34088**	2034-10-28 05:55:59.73	06 43 42.93613	+23 22 20.03510	55.7	45.2	1.557	186.59	-5.88	18.468	20.5	12.456	14.702	13.942	335.8	114.4
PgtRgt	3379732240790174080	06 43 42.92315	+23 22 18.48830			20.856	74.05	66.29	5.825	-5.3	0.201	13.373	0	23.3	55.6
U34089	2034-11-04 05:31:17.68	06 43 18.43302	+23 22 58.27872	11.6	9.2	4.010	185.71	-9.12	18.362		14.818	15.703	15.387	335.0	121.5
XRt	3379727121189185920	06 43 18.40405	+23 22 54.28872			53.402	73.93	66.38			0.051	14.851	0	23.3	44.8
U34090	2034-11-06 07:03:29.02	06 43 09.13498	+23 23 09.68717	13.3	10.7	2.827	185.54	-10.05	18.332		14.549	16.064	15.535	309.9	123.6
XRgt	3379730110486433920	06 43 09.11514	+23 23 06.87311			37.591	73.88	66.41	7.228		0.065	15.317	0	23.3	70.9
U34091	2034-11-10 14:44:42.90	06 42 46.74692	+23 23 35.04597	13.0	9.7	0.913	5.27	-11.93	18.272	15.5	14.535	16.059	15.548	190.2	128.0
PgtRgt	3379730655944579328	06 42 46.75300	+23 23 35.95474			12.094	73.77	66.49	12.516	-24.3		15.498	0	23.4	123.1
U34092	2034-11-17 07:55:20.45	06 42 04.53627	+23 24 31.03177	10.7	7.6	3.199	184.96	-14.62	18.185		14.578	15.555	15.176	285.7	134.9
XRgt	3379776942809906944	06 42 04.51619	+23 24 27.84511			42.188	73.57	66.64	8.869		0.057	15.215	0	23.4	156.0
U34093	2034-11-17 19:00:01.38	06 42 01.30382	+23 24 32.91054	9.7	7.2	1.234	184.94	-14.80	18.180	22.9	13.603	15.126	14.606	119.1	135.4
PgtRgt	3379777114608602496	06 42 01.29611	+23 24 31.68087			16.274	73.55	66.65	15.114	-11.5	0.101	14.799	0	23.4	150.4
U34094	2034-11-22 12:06:04.06	06 41 26.25601	+23 25 15.80578	14.2	10.1	3.210	184.77	-16.49	18.125		13.513	15.993	15.249	217.8	140.3
XRgt	337975752955776128	06 41 26.23664	+23 25 12.60663			42.201	73.38	66.78	9.982		0.135	15.784	0	23.4	87.8
U34095	2034-11-23 18:04:10.48	06 41 16.29595	+23 25 22.23704	21.6	15.5	1.717	4.72	-16.92	18.112	2.7	14.774	16.865	16.188	127.0	141.6
PgtRgt	3379757387821109504	06 41 16.30622	+23 25 23.94850			22.558	73.33	66.81	16.328	-17.8	0.064	16.683	0	23.4	69.5
U34096	2034-11-24 11:49:14.34	06 41 10.31993	+23 25 33.57674	13.7	9.6	2.829	184.70	-17.16	18.104		14.634	15.965	15.555	220.0	142.3
XRgt	3379769040070151424	06 41 10.30309	+23 25 30.75720			37.146	73.30	66.83	12.671		0.088	15.798	0	23.4	58.5
U34097	2034-11-26 20:26:25.87	06 40 50.58660	+23 25 55.60433	9.9	7.1	2.716	184.62	-17.91	18.080		12.801	15.208	14.482	88.3	144.8
XRgt	3379768593393578752	06 40 50.57069	+23 25 52.89692			35.618	73.20	66.90	13.793		0.172	15.088	0	23.4	22.7
U34098	2034-12-06 22:12:42.61	06 39 17.23998	+23 27 33.56118	11.5	9.4	0.277	184.32	-20.67	17.993	23.1	14.205	15.727	15.203	51.4	155.4
PgtRgt	3382768297336033920	06 39 17.23846	+23 27 33.28528			3.611	72.74	67.24	22.134	-20.5	0.074	15.762	0	23.4	112.8
U34099	2034-12-07 05:32:44.83	06 39 14.19035	+23 27 34.13011	27.6	23.2	2.317	4.32	-20.74	17.991		14.265	17.270	16.329	301.1	155.7
PRgt	3382771256569843584	06 39 14.20302	+23 27 36.44040			30.231	72.72	67.25	17.939		0.099	17.309	0	23.4	116.4
U34100	2034-12-07 15:08:17.33	06 39 10.21724	+23 27 40.65317	44.1	39.4	0.080	184.30	-20.83	17.988	22.3	14.992	18.015	17.024	156.8	156.1
PgtRgt	3382771286633272704	06 39 10.21680	+23 27 40.57378			1.039	72.70	67.26	22.354	-21.6		18.059	0	23.4	121.2
U34101	2034-12-09 03:25:59.71	06 38 54.98083	+23 27 57.45687	12.6	9.0	1.184	184.26	-21.16	17.978	22.6	13.524	15.515	14.869	330.8	157.7
PgtRgt	3382771909404886528	06 38 54.97443	+23 27 56.27587			15.441	72.63	67.32	21.627	-12.0	0.113	15.576	0	23.4	139.0

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U34102	2034-12-10 02:27:24.80	06 38 45.18277 +23 28 06.81435	28.6	21.8	0.536	184.23	-21.35	17.971	23.5	14.912	17.114	16.427	344.5	158.7
PgtRgt	3382772046843847296	06 38 45.17990 +23 28 06.28010			6.982	72.58	67.35	22.689	-18.5	0.061	17.186	0	23.4	150.2
U34103	2034-12-11 06:56:43.17	06 38 32.94440 +23 28 20.81142	19.2	14.1	2.121	184.20	-21.58	17.964		14.957	16.428	15.911	275.9	160.0
PtRgt	3382408516515537920	06 38 32.93311 +23 28 18.69613			27.634	72.52	67.39	19.442		0.050	16.511	0	23.4	164.0
U34104	2034-12-11 14:20:53.83	06 38 29.73199 +23 28 22.58494	17.8	13.3	0.658	184.19	-21.64	17.962	23.5	14.344	16.253	15.599	164.5	160.3
PgtRgt	3382408482155800192	06 38 29.72850 +23 28 21.92854			8.574	72.50	67.41	22.877	-17.5	0.074	16.339	0	23.4	167.4
U34105	2034-12-11 18:03:13.08	06 38 28.12835 +23 28 24.89637	20.9	16.2	1.353	184.18	-21.67	17.961	21.6	14.708	16.586	16.000	108.8	160.5
PgtRgt	3382408482155801984	06 38 28.12117 +23 28 23.54723			17.622	72.49	67.41	21.805	-9.6	0.063	16.673	0	23.4	169.1
U34106	2034-12-13 07:07:50.20	06 38 11.92441 +23 28 40.73841	13.7	11.4	0.975	184.14	-21.94	17.953	23.2	14.525	16.114	15.552	271.1	162.1
PgtRgt	3382409134990846080	06 38 11.91930 +23 28 39.76633			12.690	72.41	67.47	22.766	-14.3	0.064	16.214	0	23.4	169.8
U34107	2034-12-14 02:01:18.49	06 38 03.60706 +23 28 52.20175	6.1	4.9	4.170	184.12	-22.07	17.949		13.114	14.276	13.856	346.9	162.9
XRt	3382409238070072576	06 38 03.58530 +23 28 48.04217			54.288	72.37	67.50			0.118	14.383	0	23.4	160.9
U34108	2034-12-14 03:39:34.28	06 38 02.87602 +23 28 51.74463	16.4	13.4	2.992	184.12	-22.08	17.948		14.766	16.318	15.775	322.2	163.0
XRgt	3382409276725653632	06 38 02.86041 +23 28 48.75992			38.953	72.36	67.50	15.227		0.076	16.426	0	23.4	160.1
U34109	2034-12-14 12:26:04.28	06 37 58.97343 +23 28 53.25242	55.9	49.0	0.648	184.11	-22.14	17.946	23.4	14.703	18.466	17.275	190.2	163.4
PgtRgt	3382409272430314752	06 37 58.97006 +23 28 52.60625			8.432	72.34	67.51	23.396	-17.5		18.576	0	23.4	155.7
U34110	2034-12-15 00:00:23.30	06 37 53.83932 +23 29 00.69324	14.0	11.0	3.021	184.09	-22.21	17.944		14.625	16.183	15.669	16.2	163.9
XRgt	3382410754194412800	06 37 53.82365 +23 28 57.67967			39.320	72.32	67.53	14.918		0.060	16.297	0	23.4	149.9
U34111	2034-12-17 10:26:44.71	06 37 27.56852 +23 29 22.13192	5.9	4.6	1.173	4.03	-22.55	17.933	11.9	12.892	14.510	13.963	217.1	166.5
PgtRgt	3382411544468425856	06 37 27.57451 +23 29 23.30178			15.253	72.18	67.63	23.039	-22.4	0.141	14.641	0	23.5	119.3
U34112	2034-12-17 12:18:12.30	06 37 26.73423 +23 29 24.26218	16.0	12.9	0.147	184.02	-22.56	17.933	22.2	14.633	16.786	16.156	189.1	166.6
PgtRgt	3382411544468426752	06 37 26.73348 +23 29 24.11569			1.910	72.18	67.63	24.139	-20.8	0.065	16.916	0	23.5	118.3
U34113	2034-12-18 02:17:12.75	06 37 20.40002 +23 29 32.07354	13.3	10.7	1.838	184.01	-22.63	17.930	15.2	14.287	16.027	15.395	338.8	167.2
PgtRgt	3382411505812840320	06 37 20.39068 +23 29 30.23988			23.904	72.15	67.65	21.395	0.5	0.074	16.161	0	23.5	110.7
U34114	2034-12-22 03:24:19.18	06 36 35.81217 +23 30 10.05878	15.9	12.4	2.540	3.90	-23.04	17.917		14.829	16.574	15.972	317.8	171.5
XRgt	3382456246488671616	06 36 35.82472 +23 30 12.59288			33.006	71.92	67.81	18.785		0.057	16.728	0	23.5	54.2
U34115	2034-12-24 04:20:46.14	06 36 13.08132 +23 30 30.97993	12.3	9.2	2.774	3.84	-23.18	17.912		14.516	16.137	15.573	301.6	173.6
XRgt	3382455765451800704	06 36 13.09484 +23 30 33.74783			36.040	71.80	67.89	17.465		0.065	16.297	0	23.5	23.9
U34116	2034-12-30 08:51:36.44	06 35 03.48677 +23 31 33.76611	5.9	5.1	2.958	3.68	-23.37	17.906		11.974	14.030	13.346	227.5	179.6
XRgt	3382447793992286336	06 35 03.50058 +23 31 36.71809			38.415	71.43	68.14	16.291		0.241	14.199	0	23.5	66.3
U34117*	2034-12-31 01:43:18.01	06 34 55.56208 +23 31 40.96940	12.1	11.0	2.752	3.66	-23.37	17.906		12.357	14.122	13.543	333.9	179.0
XRgt	3382447038078043392	06 34 55.57487 +23 31 43.71583			35.740	71.39	68.17	17.720		0.191	14.291	0	23.5	75.4
U34118	2034-12-31 03:27:21.37	06 34 54.77126 +23 31 46.91082	10.1	8.8	2.482	183.66	-23.37	17.906		13.896	15.407	14.881	307.8	178.9
XRgt	3382447106797520384	06 34 54.75973 +23 31 44.43356			32.237	71.39	68.17	19.328		0.085	15.576	0	23.5	76.4
U34119	2034-12-31 08:03:39.82	06 34 52.61321 +23 31 50.19053	12.5	10.5	3.861	183.66	-23.36	17.906		13.639	15.710	15.049	238.5	178.7
XRgt	3382447106797521152	06 34 52.59530 +23 31 46.33755			50.139	71.38	68.18	4.325		0.110	15.879	0	23.5	78.8
U35001	2035-01-02 09:32:07.15	06 34 29.35893 +23 32 06.70940	20.6	16.7	0.096	183.60	-23.32	17.907	21.3	14.896	16.980	16.383	214.3	176.6
PgtRgt	3382634779689296256	06 34 29.35849 +23 32 06.61338			1.249	71.25	68.26	24.854	-20.4	0.059	17.147	0	23.5	104.3
U35002	2035-01-04 00:56:56.41	06 34 10.88274 +23 32 21.17825	5.7	4.6	1.336	3.56	-23.26	17.909	9.3	11.739	13.936	13.235	341.4	174.8
PgtRgt	3382629625728559360	06 34 10.88877 +23 32 22.51147			17.350	71.16	68.32	23.305	-21.0	0.277	14.100	0	23.5	123.9
U35003	2035-01-05 01:31:09.96	06 33 59.40498 +23 32 32.32521	38.9	31.0	0.027	183.54	-23.21	17.910	20.9	14.867	17.810	16.884	331.7	173.7
PgtRgt	3382632713805725184	06 33 59.40486 +23 32 32.29778			0.357	71.09	68.36	24.719	-20.7	0.073	17.972	0	23.5	136.0
U35004	2035-01-06 07:04:27.83	06 33 45.63714 +23 32 45.23584	14.5	11.3	1.302	183.50	-23.13	17.913	21.1	14.768	16.261	15.729	247.1	172.4
PgtRgt	3382632649385556224	06 33 45.63136 +23 32 43.93645			16.913	71.02	68.41	23.211	-9.7	0.061	16.419	0	23.5	150.4
U35005	2035-01-07 01:45:13.75	06 33 36.96006 +23 32 52.81801	15.4	11.5	1.608	183.48	-23.07	17.914	18.6	14.937	16.090	15.669	326.1	171.6
PgtRgt	3382633263561546752	06 33 36.95296 +23 32 51.21282			20.894	70.97	68.44	22.359	-4.8	0.049	16.245	0	23.5	159.5
U35006	2035-01-08 11:46:19.63	06 33 21.22843 +23 33 08.24875	17.2	12.6	3.955	183.44	-22.95	17.918		14.958	16.419	15.917	174.4	170.1
XRt	3382643850660285824	06 33 21.21116 +23 33 04.30045			51.402	70.89	68.50			0.051	16.569	0	23.5	174.2
U35007	2035-01-09 04:10:35.98	06 33 13.63506 +23 33 06.47621	17.5	13.0	4.066	3.42	-22.88	17.920		14.643	16.432	15.824	287.6	169.4
XRt	3382643777641493504	06 33 13.65272 +23 33 10.53456			52.840	70.85	68.53			0.086	16.578	0	23.5	172.6

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U35008	2035-01-13 03:00:46.50	06 32 30.45340 +23 33 41.44739	10.8	8.2	4.092	3.32	-22.40	17.934		14.775	15.548	15.236	301.0	165.2
XRt	3382553828145140480	06 32 30.47066 +23 33 45.53298			53.231	70.61	68.68			0.050	15.671	0	23.5	125.1
U35009	2035-01-15 13:02:22.30	06 32 04.58069 +23 34 07.44758	9.9	8.1	1.431	183.26	-22.02	17.945	20.0	14.290	15.830	15.302	148.1	162.6
PgtRgt	3382554446620464256	06 32 04.57477 +23 34 06.01885			18.625	70.47	68.77	21.773	-7.5	0.075	15.935	0	23.5	93.4
U35010	2035-01-16 01:19:20.43	06 31 59.15643 +23 34 11.06775	13.3	11.0	0.809	183.25	-21.93	17.948	22.1	14.665	16.377	15.808	323.4	162.1
PgtRgt	3382601343365091456	06 31 59.15310 +23 34 10.25972			10.535	70.44	68.79	22.793	-14.8	0.062	16.477	0	23.5	86.6
U35011	2035-01-16 07:47:35.35	06 31 56.31471 +23 34 14.63880	15.2	12.6	2.162	183.24	-21.89	17.949		14.082	16.692	15.854	226.0	161.8
PtRgt	3382599938914075264	06 31 56.30582 +23 34 12.48022			28.146	70.43	68.80	19.319		0.104	16.790	0	23.5	82.9
U35012	2035-01-19 06:54:15.75	06 31 25.43899 +23 34 33.23682	4.2	3.4	3.020	3.17	-21.33	17.966		11.257	13.809	13.040	236.3	158.7
XRgt	3382600729188098560	06 31 25.45114 +23 34 36.25200			39.348	70.26	68.91	14.390		0.378	13.879	0	23.5	41.5
U35013	2035-01-19 07:33:34.80	06 31 25.16315 +23 34 34.58506	14.8	12.0	1.883	3.17	-21.32	17.966	-2.5	13.161	16.634	15.496	226.4	158.6
PgtRgt	3382600729188099072	06 31 25.17073 +23 34 36.46561			24.541	70.26	68.91	19.832	-13.3	0.198	16.704	0	23.5	41.1
U35014*	2035-01-20 13:56:43.11	06 31 12.25279 +23 34 46.52659	24.8	19.3	0.268	183.14	-21.06	17.974	21.2	14.778	16.873	16.244	129.4	157.3
PgtRgt	3382597739890877312	06 31 12.25173 +23 34 46.25918			3.491	70.18	68.95	22.297	-18.7	0.119	17.016	0	23.6	12.1
U35015	2035-01-21 08:17:51.31	06 31 04.52032 +23 34 49.51216	19.1	15.2	2.561	3.12	-20.90	17.979		14.008	16.968	15.997	213.3	156.5
XRgt	3382597976110764544	06 31 04.53047 +23 34 52.06892			33.388	70.14	68.98	16.769		0.119	17.016	0	23.6	12.1
U35016	2035-01-23 04:08:08.47	06 30 46.34381 +23 35 04.62320	6.9	5.4	0.996	3.08	-20.48	17.991	12.7	12.095	14.800	13.996	273.8	154.6
PgtRgt	3382598495805156224	06 30 46.34770 +23 35 05.61779			12.997	70.04	69.05	20.988	-21.6	0.275	14.826	0	23.6	16.8
U35017	2035-01-24 01:05:33.61	06 30 37.78712 +23 35 10.96652	6.2	4.9	0.964	3.06	-20.27	17.998	13.0	13.003	14.580	14.056	318.6	153.6
PgtRgt	3382610178116212096	06 30 37.79087 +23 35 11.92865			12.577	69.99	69.08	20.831	-21.7	0.119	14.595	0	23.6	29.3
U35018	2035-01-25 04:48:43.19	06 30 26.60619 +23 35 18.15028	16.3	11.9	1.959	3.03	-19.99	18.007		13.536	16.529	15.514	261.6	152.4
PtRgt	3382608941165644672	06 30 26.61373 +23 35 20.10684			25.588	69.93	69.12	18.313		0.096	16.528	0	23.6	45.7
U35019	2035-01-25 05:08:21.97	06 30 26.46662 +23 35 16.03549	8.1	6.1	4.173	3.03	-19.98	18.007		13.606	15.137	14.611	256.7	152.4
XRt	3382608941165645696	06 30 26.48268 +23 35 20.20230			54.494	69.93	69.12	18.007		0.096	15.136	0	23.6	45.9
U35020	2035-01-25 05:33:40.83	06 30 26.32967 +23 35 24.43041	36.9	32.1	4.111	183.03	-19.98	18.007		12.007	13.797	12.782	250.3	152.4
XRt	3382609009886199168	06 30 26.31386 +23 35 20.32526			53.687	69.93	69.12	18.007		0.207	13.796	0	23.6	46.1
U35021	2035-01-25 12:02:19.11	06 30 23.72075 +23 35 20.62991	9.1	6.6	1.580	3.03	-19.91	18.009	4.8	13.960	15.359	14.901	152.9	152.1
PgtRgt	3382609009885777792	06 30 23.72682 +23 35 22.20742			20.633	69.91	69.13	19.299	-18.4	0.079	15.354	0	23.6	49.9
U35022	2035-01-25 17:21:50.88	06 30 21.59556 +23 35 20.85541	15.4	11.0	2.896	3.02	-19.86	18.011		14.733	16.051	15.561	72.8	151.9
XRgt	3382608975525390080	06 30 21.60667 +23 35 23.74708			37.825	69.90	69.13	14.095		0.057	16.043	0	23.6	53.0
U35023	2035-01-29 22:56:23.61	06 29 42.41948 +23 35 53.80845	11.9	8.8	2.089	182.92	-18.70	18.046		13.874	15.795	15.149	344.8	147.4
PtRgt	3382589214377543552	06 29 42.41173 +23 35 51.72197			27.344	69.68	69.27	16.678		0.102	15.722	0	23.6	108.1
U35024	2035-01-31 01:31:37.09	06 29 32.57881 +23 36 02.29695	12.7	10.1	3.702	182.89	-18.37	18.056		13.838	16.080	15.404	304.9	146.3
XRgt	3382590008949876352	06 29 32.56521 +23 36 05.59927			48.486	69.63	69.31	6.090		0.106	15.988	0	23.6	121.5
U35025	2035-02-01 12:43:07.96	06 29 19.80621 +23 36 05.72709	12.9	10.3	1.685	2.86	-17.92	18.070	2.5	13.544	16.243	15.382	135.5	144.7
PgtRgt	3383340386979185792	06 29 19.81233 +23 36 07.40976			22.080	69.55	69.35	17.060	-16.9	0.140	16.124	0	23.6	138.9
U35026*	2035-02-03 23:34:30.68	06 28 59.21811 +23 36 17.90965	137.6	106.3	3.487	2.80	-17.13	18.095		14.135	16.735	15.777	330.2	142.2
XRgt	3383339837224484608	06 28 59.23050 +23 36 21.39252			45.763	69.44	69.42	8.029		0.167	16.567	0	23.6	167.2
U35027	2035-02-03 23:47:41.69	06 28 59.16103 +23 36 23.00552	5.8	4.2	1.564	182.80	-17.13	18.095	18.3	11.270	13.858	13.067	326.9	142.2
PgtRgt	3383339841520889728	06 28 59.15547 +23 36 21.44295			20.531	69.44	69.42	16.577	-4.8	0.356	13.690	0	23.6	167.3
U35028	2035-02-04 05:57:02.85	06 28 57.06305 +23 36 23.98200	20.9	17.3	1.133	182.79	-17.04	18.098	20.9	14.498	16.580	15.929	234.3	141.9
PgtRgt	3383339837223385216	06 28 57.05903 +23 36 22.85038			14.871	69.42	69.43	17.234	-10.9	0.074	16.406	0	23.6	170.0
U35029	2035-02-04 21:39:59.68	06 28 51.77063 +23 36 30.50246	41.5	31.9	4.111	182.78	-16.82	18.104		14.952	17.912	17.035	357.9	141.2
XRt	3383339871583135744	06 28 51.75614 +23 36 26.39671			53.974	69.39	69.45			0.074	17.724	0	23.6	174.8
U35030	2035-02-05 19:58:51.70	06 28 44.36091 +23 36 34.43955	43.0	34.9	3.127	182.75	-16.50	18.114		14.426	17.949	16.866	22.2	140.2
XRgt	3383340043381821568	06 28 44.34998 +23 36 31.31578			41.087	69.35	69.47	10.334		0.140	17.741	0	23.6	168.2
U35031	2035-02-07 19:10:53.11	06 28 29.18095 +23 36 43.47750	23.9	19.2	2.209	182.71	-15.80	18.136		14.226	16.821	16.043	32.2	138.2
PtRgt	3383342830818157952	06 28 29.17336 +23 36 41.27075			29.059	69.26	69.53	13.707		0.074	16.565	0	23.6	144.5
U35032	2035-02-08 08:07:36.59	06 28 25.12691 +23 36 43.07896	10.1	7.7	0.816	2.70	-15.61	18.142	14.0	13.407	15.459	14.775	197.5	137.6
PgtRgt	3383342792160904064	06 28 25.12971 +23 36 43.89439			10.741	69.24	69.54	16.137	-21.3	0.130	15.190	0	23.6	137.7

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U35033	2035-02-12 10:15:26.90	06 27 56.21911	+23 37 04.71344	12.6	9.1	2.445	182.60	-14.05	18.190		13.497	15.963	15.185	161.3	133.4
XRgt	3383349565326919680	06 27 56.21106	+23 37 02.27071			32.259	69.07	69.64	11.510		0.136	15.580	0	23.6	83.7
U35034	2035-02-16 12:02:24.72	06 27 30.58121	+23 37 16.29810	5.8	4.0	1.648	2.50	-12.39	18.242	2.8	12.501	13.967	13.447	130.5	129.1
PgtRgt	3383348706333493120	06 27 30.58644	+23 37 17.94468			21.805	68.93	69.73	11.807	-16.9	0.169	13.447	0	23.6	27.2
U35035	2035-02-17 02:10:44.68	06 27 27.14333	+23 37 16.19827	15.9	11.6	3.801	2.48	-12.15	18.249		14.449	16.328	15.689	277.8	128.5
XRgt	3383348912491929856	06 27 27.15532	+23 37 19.99522			50.303	68.91	69.75	2.056		0.076	15.787	0	23.6	19.0
U35036	2035-02-19 12:40:45.46	06 27 13.70791	+23 37 25.98871	17.4	13.9	1.914	2.42	-11.11	18.282	-6.4	13.639	16.500	15.644	117.8	126.0
PgtRgt	3383351833069707136	06 27 13.71378	+23 37 27.90131			25.382	68.83	69.79	10.152	-9.6	0.133	15.862	0	23.6	17.4
U35037	2035-04-08 01:45:16.00	06 27 19.30800	+23 37 01.45512	22.5	17.2	1.116	183.10	12.25	19.043	-9.9	14.345	16.805	16.039	234.9	78.7
PgtRgt	3383348843772465792	06 27 19.30360	+23 37 00.34072			15.414	68.88	69.78	12.346	20.5	0.088	16.273	0	23.6	83.8
U35038	2035-04-19 05:12:30.03	06 28 34.58284	+23 36 04.65915	5.9	4.5	0.162	3.07	17.55	19.223	-20.2	10.670	13.868	12.965	172.4	68.0
PgtRgt	3383342590299987328	06 28 34.58347	+23 36 04.82137			2.265	69.32	69.51	18.543	18.6	0.610	13.726	0	23.6	73.0
U35039	2035-04-21 20:58:08.87	06 28 56.27384	+23 35 51.11854	18.3	14.4	2.305	183.08	18.74	19.264		14.580	16.361	15.733	293.5	65.5
XRgt	3383339837223368576	06 28 56.26482	+23 35 48.81665			32.208	69.44	69.44	15.285		0.074	16.291	0	23.6	106.6
U35040	2035-04-25 01:12:03.29	06 29 23.95545	+23 35 24.72948	15.3	12.2	3.523	3.10	20.13	19.312		14.951	16.422	15.861	227.0	62.5
XRgt	3382589699711975296	06 29 23.96932	+23 35 28.24757			49.348	69.60	69.34	4.499		0.057	16.429	0	23.6	145.0
U35041	2035-04-28 10:37:56.86	06 29 55.63469	+23 35 02.89986	6.2	4.8	1.642	3.13	21.58	19.362	-15.8	12.661	13.929	13.476	82.3	59.4
PgRgt	3382612377139526656	06 29 55.64121	+23 35 04.53960			23.061	69.78	69.23	20.363	0.8	0.164	14.012	0	23.6	172.6
U35042	2035-04-30 08:56:43.59	06 30 14.57122	+23 34 47.42848	19.9	15.1	2.825	3.15	22.38	19.390		14.756	16.619	16.012	105.8	57.5
XRgt	3382609589702340992	06 30 14.58251	+23 34 50.24964			39.733	69.89	69.16	14.817		0.090	16.741	0	23.6	151.1
U35043	2035-04-30 09:02:03.91	06 30 14.63015	+23 34 52.87162	22.0	17.8	2.654	183.15	22.38	19.390		14.590	16.628	15.970	104.4	57.5
XRgt	3382609624062079488	06 30 14.61954	+23 34 50.22162			37.323	69.89	69.16	16.116		0.073	16.751	0	23.6	151.0
U35044	2035-05-01 19:05:28.47	06 30 28.97976	+23 34 42.27694	5.4	4.0	2.944	183.17	22.96	19.410		12.738	13.790	13.409	312.2	56.2
XRgt	3382608735007214976	06 30 28.96793	+23 34 39.33773			41.439	69.97	69.11	14.129		0.153	13.939	0	23.5	133.7
U35045	2035-05-01 22:42:22.13	06 30 30.50650	+23 34 36.93336	24.2	18.4	1.232	3.17	23.02	19.412	-20.4	14.967	17.120	16.481	257.9	56.1
PgtRgt	3382608735007212416	06 30 30.51145	+23 34 38.16395			17.352	69.98	69.11	22.943	8.7	0.062	17.272	0	23.5	131.9
U35046	2035-05-03 07:21:47.22	06 30 44.62084	+23 34 24.63561	4.6	3.7	2.766	3.18	23.57	19.431		10.973	12.875	12.258	126.7	54.8
XRgt	3382598457147089792	06 30 44.63204	+23 34 27.39692			38.986	70.06	69.06	16.119		0.418	13.053	0	23.5	114.5
U35047	2035-05-03 16:45:48.05	06 30 48.74964	+23 34 22.90127	20.5	16.0	1.344	3.19	23.72	19.436	-19.6	14.018	16.934	16.059	345.4	54.4
PgtRgt	3382598285348392704	06 30 48.75507	+23 34 24.24340			18.948	70.08	69.04	23.326	7.0	0.133	17.119	0	23.5	109.3
U35048	2035-05-05 06:36:19.59	06 31 05.61985	+23 34 12.93156	63.9	50.2	1.629	183.20	24.34	19.457	-1.1	14.663	18.729	17.494	136.2	53.0
PgtRgt	3382597907391261312	06 31 05.61323	+23 34 11.30519			22.987	70.17	68.98	23.047	16.1	0.093	18.942	0	23.5	87.8
U35049	2035-05-06 19:37:42.15	06 31 22.51612	+23 34 01.40868	14.9	12.3	3.145	183.22	24.93	19.478		14.309	16.129	15.536	299.4	51.6
XRgt	3382600626108889600	06 31 22.50326	+23 33 58.26866			44.428	70.27	68.92	12.906			16.369	0	23.5	65.8
U35050	2035-05-07 07:09:36.11	06 31 27.85230	+23 33 56.46073	18.2	14.8	2.333	183.23	25.12	19.484		14.589	16.746	16.016	126.0	51.1
XRgt	3382600656170316032	06 31 27.84275	+23 33 54.13163			32.966	70.30	68.90	20.344		0.080	16.993	0	23.5	58.7
U35051	2035-05-07 22:51:20.13	06 31 35.15781	+23 33 45.60890	10.4	8.6	2.837	3.24	25.36	19.493		13.782	15.528	14.940	250.0	50.5
XRgt	3382600419950442880	06 31 35.16946	+23 33 48.44183			40.114	70.34	68.88	16.496			15.785	0	23.5	49.1
U35052	2035-05-08 05:25:33.88	06 31 38.27048	+23 33 49.38408	7.4	6.2	3.350	183.24	25.46	19.496		13.843	15.009	14.615	151.2	50.3
XRgt	3382600797907559296	06 31 38.25670	+23 33 46.03984			47.364	70.36	68.87	9.948		0.090	15.272	0	23.5	45.0
U35053	2035-05-11 21:05:34.34	06 32 20.54577	+23 33 10.98489	35.3	28.4	1.890	3.29	26.78	19.542		13.469	17.352	16.113	272.7	46.9
PtRgt	3382553480249496576	06 32 20.55365	+23 33 12.87162			26.785	70.59	68.72	24.227		0.188	17.669	0	23.5	10.6
U35054	2035-05-11 22:09:11.00	06 32 21.06575	+23 33 09.65981	22.9	16.2	2.803	3.29	26.80	19.543		14.612	16.745	16.047	256.8	46.8
XRgt	3382553480249496448	06 32 21.07744	+23 33 12.45779			39.723	70.59	68.72	17.882		0.082	17.063	0	23.5	11.2
U35055 ^a	2035-08-22 11:02:04.45	06 57 02.36083	+23 07 48.28042	50.9	43.7	0.933	185.19	27.27	19.542	-17.8	13.636	15.479	14.796	328.7	45.6
PgtRgt	3380074360701484288	06 57 02.35472	+23 07 47.35159			13.219	77.47	63.38	29.175	26.8	0.100	15.815	0	23.1	94.0
U35056 ^d	2035-08-22 11:06:35.30	06 57 02.39491	+23 07 47.69465	12.0	8.5	0.392	185.19	27.27	19.542	-23.7	13.636	17.468		327.5	45.6
PgtRgt	3380074360703605376	06 57 02.39234	+23 07 47.30449			5.553	77.47	63.38	30.040	27.6	0.100	17.804	0	23.1	94.0
U35057	2035-08-22 23:54:30.94	06 57 08.78528	+23 07 41.32269	35.7	31.5	2.019	185.19	27.09	19.536		14.434	17.606	16.614	135.1	46.1
PRgt	3380168124132545024	06 57 08.77205	+23 07 39.31246			28.600	77.49	63.36	24.879		0.101	17.935	0	23.1	87.0

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U35058	2035-08-29 14:00:10.19	06 58 24.08527 +23 06 02.28587	20.7	17.2	2.175	5.24	24.72	19.450		14.789	16.613	15.993	277.5	52.2
XRgt	3380118135010221824	06 58 24.09966 +23 06 04.45158			30.679	77.79	63.08	21.814		0.062	16.843	0	23.0	6.6
U35059	2035-08-31 09:27:36.57	06 58 43.63884 +23 05 42.90549	5.5	5.5	3.163	185.24	24.02	19.425		11.861	12.317	12.147	343.9	53.9
XRgt	3380123082812529664	06 58 43.61793 +23 05 39.75456			44.566	77.87	63.01	12.412		0.203	12.516	0	23.0	31.4
U35060	2035-09-01 16:49:48.30	06 58 57.39218 +23 05 25.49926	14.6	13.7	3.182	185.25	23.50	19.407		14.533	15.934	15.440	232.1	55.1
XRg	3380119986139064192	06 58 57.37109 +23 05 22.33049			44.789	77.92	62.96	12.231		0.062	16.109	0	23.0	50.0
U35061	2035-09-05 14:32:12.12	06 59 36.73315 +23 04 35.20492	6.8	5.4	2.787	185.25	21.91	19.351		12.815	14.256	13.737	262.8	58.7
XRgt	3380108960960018944	06 59 36.71466 +23 04 32.42992			39.110	78.07	62.81	15.648		0.144	14.355	0	23.0	103.0
U35062	2035-09-09 04:06:00.14	07 00 10.25890 +23 03 47.44593	36.5	27.4	2.415	5.25	20.40	19.297		14.954	17.603	16.725	56.0	62.0
XRgt	3380128820888947328	07 00 10.27491 +23 03 49.85093			33.801	78.20	62.69	17.055		0.068	17.624	0	23.0	146.7
U35063	2035-10-01 03:06:13.09	07 02 42.11101 +23 00 43.72145	24.2	19.9	0.868	184.66	10.13	18.940	-20.5	13.938	16.568	15.756	50.0	82.9
PgtRgt	3368106966907216256	07 02 42.10590 +23 00 42.85663			11.919	78.77	62.13	11.073	28.3		15.830	0	23.0	77.7
U35064	2035-10-19 10:38:01.34	07 03 28.19847 +23 00 08.04718	12.7	10.0	3.282	169.07	0.91	18.627		13.239	15.996	15.123	279.1	100.8
XRgt	3368434552655595776	07 03 28.24352 +23 00 04.82494			44.334	78.93	61.96	0.581		0.130	12.636	0	22.9	48.6
U35065	2035-10-23 03:06:59.61	07 03 28.29497 +23 00 15.05256	5.3	4.2	4.083	201.36	-1.02	18.565		12.282	13.927	13.371	28.3	104.5
XRt	3368434552655594880	07 03 28.18729 +23 00 11.25018			54.973	78.92	61.96			0.181	10.700	0	22.9	6.1
U35066	2035-10-27 09:30:06.64	07 03 24.13374 +23 00 21.13756	6.6	5.2	3.544	11.06	-3.13	18.495		13.058	14.290	13.845	288.3	108.7
XRgt	3368434513997982080	07 03 24.18299 +23 00 24.61531			47.533	78.90	61.97	1.120		0.109	12.276	0	22.9	63.6
U35067	2035-11-23 02:03:00.65	07 01 27.56821 +23 03 56.89466	12.8	10.9	3.595	6.89	-14.97	18.110		14.362	16.268	15.673	13.3	136.0
XRgt	3368119263400098432	07 01 27.59945 +23 04 00.46342			47.216	78.44	62.40	5.728		0.072	15.954	0	23.0	56.9
U35068	2035-11-26 14:31:05.72	07 01 01.51528 +23 04 40.02373	11.9	9.8	3.447	6.75	-16.26	18.069		14.424	15.510	15.120	182.7	139.6
XRgt	3368119881875398016	07 01 01.54463 +23 04 43.44677			45.173	78.33	62.49	8.006		0.057	15.286	0	23.0	102.9
U35069	2035-12-09 10:56:30.61	06 59 09.43542 +23 07 41.42345	14.2	12.5	1.327	186.31	-20.12	17.947	25.4	14.463	16.195	15.609	223.2	153.1
PgtRgt	3380120535896076928	06 59 09.42484 +23 07 40.10420			17.276	77.88	62.91	21.053	-13.3	0.063	16.202	0	23.1	100.5
U35070	2035-12-10 13:44:44.77	06 58 58.61454 +23 07 58.40181	8.3	8.3	1.829	186.28	-20.39	17.938	17.3	13.377	14.698	14.222	180.0	154.3
PgtRgt	3380120677630823808	06 58 58.60003 +23 07 56.58347			23.799	77.84	62.94	20.007	-1.4	0.097	14.719	0	23.1	85.7
U35071	2035-12-11 07:17:55.34	06 58 51.40978 +23 08 04.70328	33.0	30.6	2.761	6.26	-20.56	17.933		14.866	17.680	16.839	275.9	155.1
XRgt	3380123662631101184	06 58 51.43160 +23 08 07.44777			35.909	77.81	62.97	16.224		0.066	17.710	0	23.1	75.8
U35072	2035-12-17 14:07:40.36	06 57 47.51404 +23 09 45.64035	8.0	6.6	2.911	186.08	-21.82	17.892		13.876	14.916	14.563	167.0	161.7
XRgt	3380166238643957120	06 57 47.49168 +23 09 42.74560			37.777	77.55	63.20	16.259		0.073	15.011	0	23.1	18.1
U35073	2035-12-23 13:07:50.01	06 56 43.65433 +23 11 13.42839	12.9	10.5	1.704	5.91	-22.70	17.865	5.4	13.968	16.118	15.438	175.8	168.0
PgtRgt	3380087451763790336	06 56 43.66705 +23 11 15.12373			22.083	77.29	63.44	22.628	-20.2	0.074	16.256	0	23.1	100.2
U35074	2035-12-23 21:47:20.45	06 56 39.73255 +23 11 21.84754	22.5	17.6	1.111	185.90	-22.74	17.863	26.4	14.786	17.130	16.449	45.6	168.4
PgtRgt	3380087451763928448	06 56 39.72427 +23 11 20.74224			14.396	77.28	63.45	24.131	-16.2	0.064	17.269	0	23.1	104.8
U35075	2035-12-24 20:44:49.63	06 56 29.20620 +23 11 31.90276	15.5	12.3	3.760	5.87	-22.84	17.860		12.860	16.429	15.251	60.2	169.4
XRgt	3380087657922226432	06 56 29.23408 +23 11 35.64291			48.703	77.23	63.49	7.142		0.256	16.573	0	23.1	116.8
U35076	2035-12-25 08:42:30.01	06 56 23.77870 +23 11 47.38029	8.0	6.4	3.995	185.85	-22.89	17.858		13.179	14.993	14.404	240.3	169.9
XRt	3380090234902606080	06 56 23.74915 +23 11 43.40579			51.748	77.21	63.51			0.120	15.140	0	23.1	122.9
U35077	2035-12-29 09:22:15.23	06 55 39.01496 +23 12 45.31148	11.6	9.5	0.694	5.74	-23.21	17.848	20.9	14.670	15.974	15.477	226.2	174.2
PgtRgt	3380277220599182208	06 55 39.01999 +23 12 46.00202			8.984	77.03	63.67	25.227	-27.4	0.055	16.136	0	23.2	170.8
U35078	2035-12-30 17:27:51.89	06 55 24.05415 +23 13 07.62994	13.1	10.7	0.959	185.70	-23.27	17.846	26.8	13.857	16.137	15.438	103.4	175.6
PgtRgt	3380278113952382848	06 55 24.04724 +23 13 06.67588			12.410	76.97	63.73	24.906	-18.0	0.095	16.302	0	23.2	171.5
U36001	2036-01-02 05:32:09.53	06 54 55.94977 +23 13 48.45795	5.1	4.1	3.340	185.63	-23.34	17.843		11.467	13.755	13.051	279.8	178.2
XRgt	3380275605691487360	06 54 55.92600 +23 13 45.13427			43.221	76.85	63.83	13.701		0.299	13.922	0	23.2	142.5
U36002	2036-01-02 14:08:11.77	06 54 51.92414 +23 13 54.91425	14.7	11.8	4.325	185.62	-23.35	17.843		13.837	16.336	15.517	150.4	178.6
XRt	3380275670115105792	06 54 51.89341 +23 13 50.60986			55.973	76.83	63.85			0.102	16.504	0	23.2	138.3
U36003	2036-01-11 02:06:48.43	06 53 16.55817 +23 15 59.97563	7.8	6.4	2.686	185.39	-23.07	17.850		13.044	14.893	14.276	322.0	172.3
XRgt	3380267599872300928	06 53 16.53985 +23 15 57.30163			34.771	76.43	64.19	18.534		0.138	15.048	0	23.2	26.6
U36004	2036-01-14 22:53:56.40	06 52 33.84615 +23 16 50.60797	12.8	10.7	1.717	5.29	-22.71	17.860	4.7	13.813	15.872	15.189	6.2	168.2
PgtRgt	3380317112255318400	06 52 33.85765 +23 16 52.31791			22.245	76.25	64.35	22.440	-19.4	0.102	16.010	0	23.2	32.9

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U36005*	2036-01-15 18:30:54.44	06 52 24.94859 +23 17 06.54423	6.4	5.4	2.866	185.27	-22.62	17.863		10.986	13.434	12.683	71.1	167.3
XRgt	3380316970519316864	06 52 24.92948 +23 17 03.69081			37.125	76.21	64.38	17.001		0.426	13.567	0	23.2	45.1
U36006	2036-01-19 04:08:06.44	06 51 48.22605 +23 17 49.47596	12.4	11.0	0.464	5.18	-22.16	17.877	22.1	14.555	16.067	15.539	283.3	163.7
PgtRgt	3380323778044350976	06 51 48.22910 +23 17 49.93849			6.022	76.06	64.51	24.133	-26.4	0.065	16.178	0	23.2	92.9
U36007	2036-01-19 14:55:01.10	06 51 43.46699 +23 17 59.78327	13.3	10.5	3.888	185.17	-22.09	17.879		13.613	15.865	15.151	121.1	163.3
XRgt	3380323606245660800	06 51 43.44157 +23 17 55.91108			50.416	76.03	64.53	3.505		0.114	15.973	0	23.3	98.8
U36008	2036-01-21 11:39:47.75	06 51 23.74295 +23 18 20.20526	19.2	15.4	0.133	5.12	-21.78	17.888	24.2	14.931	16.837	16.212	168.0	161.3
PgtRgt	3380324533958605696	06 51 23.74381 +23 18 20.33751			1.723	75.95	64.60	23.862	-25.5	0.057	16.930	0	23.3	122.5
U36009	2036-01-22 00:47:45.90	06 51 18.00702 +23 18 25.70208	11.9	9.5	1.699	5.10	-21.69	17.891	5.0	14.488	15.891	15.395	330.4	160.7
PgtRgt	3380323125209334016	06 51 18.01799 +23 18 27.39386			22.040	75.93	64.62	21.417	-19.6	0.064	15.979	0	23.3	129.3
U36010	2036-01-26 06:52:19.32	06 50 34.50759 +23 19 24.52071	46.1	40.8	4.164	184.99	-20.83	17.917		14.599	17.920	16.861	234.9	156.2
XRt	3379576208919788672	06 50 34.48128 +23 19 20.37202			54.117	75.74	64.78			0.075	17.964	0	23.3	175.9
U36011	2036-01-27 04:26:07.79	06 50 25.53143 +23 19 32.16666	11.7	10.7	1.048	184.97	-20.63	17.923	25.4	13.595	15.265	14.719	270.6	155.3
PgtRgt	3379576453735484928	06 50 25.52484 +23 19 31.12217			13.629	75.70	64.81	21.744	-16.0	0.101	15.299	0	23.3	168.3
U36012	2036-01-31 23:25:01.62	06 49 39.40477 +23 20 27.09241	14.8	12.5	1.427	184.84	-19.42	17.960	22.8	14.725	16.391	15.838	340.9	150.2
PgtRgt	3379579473094955008	06 49 39.39602 +23 20 25.67042			18.589	75.50	64.98	19.767	-10.3	0.061	16.359	0	23.3	111.2
U36013*	2036-02-01 01:58:40.69	06 49 38.42479 +23 20 30.51384	50.8	40.9	3.697	184.84	-19.40	17.961		14.332	16.729	15.884	302.4	150.1
XRgt	3379579374313422080	06 49 38.40214 +23 20 26.83039			48.154	75.49	64.98	6.120		0.101	16.696	0	23.3	109.9
U36014	2036-02-06 08:20:00.54	06 48 51.35978 +23 21 17.92750	19.3	16.3	3.036	4.71	-17.83	18.008		13.699	16.856	15.860	201.7	144.6
XRgt	3379586035805010304	06 48 51.37790 +23 21 20.95336			39.654	75.29	65.15	12.160		0.136	16.732	0	23.3	41.5
U36015	2036-02-08 00:15:44.79	06 48 37.37818 +23 21 34.62563	13.3	10.6	2.143	4.67	-17.30	18.025		14.456	16.027	15.502	321.0	142.8
PtRgt	3379588857600733056	06 48 37.39086 +23 21 36.76123			28.011	75.22	65.20	15.733		0.066	15.870	0	23.3	18.1
U36016	2036-02-12 18:02:24.33	06 48 00.03076 +23 22 17.93954	20.3	15.4	0.323	4.55	-15.67	18.075	22.3	14.914	16.337	15.850	49.6	137.9
PgtRgt	3379635415046266624	06 48 00.03263 +23 22 18.26201			4.241	75.06	65.34	17.023	-25.3	0.056	16.071	0	23.3	53.6
U36017	2036-02-13 06:28:25.03	06 47 56.18246 +23 22 22.21775	20.9	15.2	0.255	4.54	-15.48	18.081	22.7	13.984	16.185	15.480	222.5	137.4
PgtRgt	3379635483765749888	06 47 56.18393 +23 22 22.47219			3.347	75.04	65.35	16.841	-25.1	0.096	15.907	0	23.3	61.3
U36018	2036-02-13 10:25:05.31	06 47 54.97109 +23 22 23.48570	88.2	77.8	0.310	4.53	-15.42	18.083	22.4	14.983	18.569	17.490	163.2	137.2
PgtRgt	3379635101511412992	06 47 54.97286 +23 22 23.79426			4.059	75.04	65.36	16.756	-25.2	0.057	18.287	0	23.3	63.7
U36019	2036-02-15 08:23:59.26	06 47 41.21555 +23 22 39.08834	24.5	18.3	0.370	184.48	-14.71	18.105	25.3	14.826	16.429	15.914	191.5	135.2
PgtRgt	3379635999161844480	06 47 41.21345 +23 22 38.71985			4.854	74.98	65.41	15.961	-21.9	0.057	16.095	0	23.3	91.0
U36020	2036-02-17 12:28:41.75	06 47 26.42720 +23 22 51.39386	5.3	3.9	3.152	4.42	-13.88	18.131		11.867	13.456	12.917	128.1	133.0
XRgt	3379612806338465920	06 47 26.44483 +23 22 54.53689			41.454	74.91	65.46	8.813		0.414	13.059	0	23.3	119.8
U36021*	2036-02-18 18:44:09.20	06 47 18.26924 +23 23 02.42279	11.4	8.4	0.768	4.38	-13.38	18.147	18.4	11.647	13.693	13.032	33.0	131.7
PgtRgt	3379615726916238464	06 47 18.27350 +23 23 03.18822			10.104	74.87	65.49	14.286	-25.4	0.288	13.256	0	23.3	135.6
U36022	2036-02-23 21:11:14.70	06 46 48.42715 +23 23 37.51188	14.4	10.3	3.428	184.21	-11.26	18.213		14.128	15.737	15.194	351.1	126.4
XRgt	3379616512894974208	06 46 48.40888 +23 23 34.09324			45.281	74.74	65.60	5.616		0.079	15.113	0	23.3	162.6
U36023	2036-02-26 01:02:50.73	06 46 37.36127 +23 23 43.65885	8.8	6.3	1.522	4.13	-10.32	18.243	7.8	12.455	14.697	14.003	291.0	124.2
PgtRgt	3379626825111781248	06 46 37.36923 +23 23 45.17710			20.140	74.69	65.64	10.326	-21.0	0.197	13.978	0	23.4	137.1
U36024	2036-02-27 16:08:45.18	06 46 29.70300 +23 23 53.11271	14.1	10.3	0.378	184.06	-9.59	18.266	25.1	14.407	15.824	15.339	62.9	122.5
PgtRgt	3379626889535965696	06 46 29.70105 +23 23 52.73603			5.003	74.66	65.67	10.402	-21.6	0.069	15.026	0	23.4	117.3
U36025	2036-03-01 09:33:17.21	06 46 18.16798 +23 24 05.73157	9.1	7.2	1.892	183.93	-8.35	18.305	11.9	13.996	15.209	14.809	159.0	119.7
PgtRgt	3379627374867284352	06 46 18.15856 +23 24 03.84423			25.116	74.60	65.71	7.919	3.8	0.067	14.260	0	23.4	83.0
U36026	2036-04-04 19:59:28.45	06 46 18.75718 +23 23 37.50621	6.1	4.9	1.193	5.33	8.78	18.863	-23.7	8.915	11.020	10.371	328.5	85.5
PgtRgt	3379627306147808000	06 46 18.76526 +23 23 38.69378			16.326	74.62	65.71	9.058	12.2	1.166	10.126	0	23.4	15.7

^a A nearby event has the same 2MASS ID as this event, resulting in a corresponding K magnitude ambiguity.

* Superscript * indicates RUWE > 1.4, ** indicates RUWE > 2, and *** indicates RUWE > 5. See machine-readable file for RUWE values.

Table 6. Geocentric Uranus Occultation Predictions 2023 –2050 for $K \leq 15$ (part 6 of 7)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U36027	2036-04-05 18:03:13.68	06 46 22.55322 +23 23 34.81211	9.5	7.4	0.962	185.29	9.24	18.878	-15.4	13.771	15.226	14.718	356.7	84.6
PgtRgt	3379627340507544704	06 46 22.54677 +23 23 33.85427			13.171	74.64	65.69	9.714	24.8	0.098	14.388	0	23.3	28.5
U36028	2036-04-06 21:07:00.22	06 46 27.44143 +23 23 27.20226	21.6	16.1	0.428	5.26	9.80	18.897	-25.1	14.271	16.579	15.867	309.7	83.5
PgtRgt	3379626962550751744	06 46 27.44428 +23 23 27.62842			5.865	74.66	65.68	10.601	20.8	0.094	15.805	0	23.3	44.5
U36029	2036-04-07 21:53:30.07	06 46 32.18575 +23 23 23.05986	22.8	16.2	1.417	185.23	10.31	18.914	-8.4	14.698	16.351	15.787	297.0	82.5
PgtRgt	3379626928191006592	06 46 32.17636 +23 23 21.64830			19.445	74.68	65.66	10.361	21.8	0.064	15.632	0	23.3	59.2
U36030	2036-04-12 06:15:37.32	06 46 54.68553 +23 22 53.66341	12.0	7.5	0.133	185.15	12.45	18.986	-23.0	13.411	14.727	14.259	167.3	78.3
PgtRgt	3379616242312343040	06 46 54.68467 +23 22 53.53126			1.827	74.79	65.58	13.541	24.4	0.110	14.212	0	23.3	119.2
U36031	2036-04-15 07:06:12.25	06 47 12.80005 +23 22 28.39550	16.2	11.9	2.722	5.12	13.91	19.036		14.682	16.008	15.511	151.8	75.4
XRgt	3379615314599387648	06 47 12.81768 +23 22 31.10643			37.578	74.87	65.51	10.174		0.061	15.614	0	23.3	157.7
U36032*	2036-04-17 18:00:46.68	06 47 28.93351 +23 22 14.87368	6.8	5.0	3.590	185.10	15.08	19.076		10.331	12.445	11.776	345.8	73.1
XRgt	3379612733322742784	06 47 28.91036 +23 22 11.29723			49.666	74.94	65.46	3.490		0.586	12.139	0	23.3	171.5
U36033	2036-04-23 00:54:33.85	06 48 07.81074 +23 21 24.24798	8.2	6.4	0.685	185.09	17.55	19.160	-18.9	13.223	14.571	14.068	237.3	68.1
PgtRgt	3379588445283912320	06 48 07.80633 +23 21 23.56617			9.512	75.12	65.31	18.789	25.7	0.224	14.429	0	23.3	108.8
U36034*	2036-04-25 11:05:11.56	06 48 27.51161 +23 20 58.22949	16.9	12.8	1.168	5.09	18.65	19.197	-24.1	11.498	12.737	12.289	82.3	65.8
PgtRgt	3379588956382420224	06 48 27.51917 +23 20 59.39219			16.265	75.21	65.24	19.251	12.8	0.621	12.661	0	23.3	77.6
U36035	2036-04-26 15:12:33.12	06 48 37.46903 +23 20 48.50572	21.3	17.6	1.312	185.09	19.17	19.215	-10.4	13.784	16.801	15.868	19.4	64.7
PgtRgt	3379588823240999936	06 48 37.46058 +23 20 47.19850			18.290	75.25	65.21	19.490	22.9	0.143	16.755	0	23.3	61.8
U36036	2036-04-27 07:57:36.11	06 48 43.49408 +23 20 37.67712	47.8	41.0	2.110	5.09	19.48	19.226		14.793	18.092	17.064	127.4	64.0
PRgt	3379585829646549120	06 48 43.50768 +23 20 39.77836			29.415	75.28	65.19	17.332		18.063	0	23.3	52.3	
U36037	2036-04-29 14:00:20.92	06 49 03.66483 +23 20 17.64112	16.7	13.5	2.611	185.10	20.46	19.259		14.585	16.279	15.750	34.6	61.9
XRgt	3379585284187919360	06 49 03.64797 +23 20 15.04084			36.466	75.37	65.11	15.517		0.072	16.304	0	23.3	20.9
U36038	2036-04-29 18:23:08.20	06 49 05.33773 +23 20 15.46105	25.4	20.8	2.488	185.10	20.54	19.262		13.879	17.076	16.073	328.7	61.7
XRgt	3379585284187917696	06 49 05.32167 +23 20 12.98307			34.756	75.38	65.11	16.411		0.141	17.105	0	23.3	18.4
U36039	2036-05-01 03:41:56.08	06 49 18.26699 +23 19 59.30137	31.1	24.3	2.238	185.11	21.14	19.283		14.260	17.479	16.449	187.7	60.4
XRgt	3379579163857292544	06 49 18.25252 +23 19 57.07255			31.295	75.44	65.06	18.224		0.113	17.539	0	23.3	4.0
U36040	2036-05-03 10:59:11.58	06 49 40.48616 +23 19 30.44417	7.4	6.2	0.787	185.12	22.10	19.316	-18.0	13.137	14.623	14.116	76.2	58.3
PgtRgt	3379578618399020160	06 49 40.48106 +23 19 29.66038			11.024	75.53	64.98	23.574	25.9	0.132	14.731	0	23.3	34.5
U36041	2036-05-07 14:27:18.04	06 50 22.80862 +23 18 38.91305	6.9	5.7	1.705	185.16	23.75	19.374	-0.4	12.726	14.103	13.625	20.3	54.4
PgtRgt	3379576316296534528	06 50 22.79749 +23 18 37.21500			23.957	75.72	64.83	22.933	16.1	0.276	14.290	0	23.3	91.7
U36042	2036-05-07 21:55:02.69	06 50 26.06492 +23 18 29.47367	23.7	21.4	3.660	5.16	23.87	19.378		14.862	16.852	16.228	268.1	54.2
XRt	3379576144497841664	06 50 26.08883 +23 18 33.11891			51.440	75.73	64.81	14.816		0.071	17.044	0	23.3	95.9
U36043	2036-05-09 17:44:01.48	06 50 45.73278 +23 18 08.59729	6.3	5.4	0.022	5.21	24.57	19.403	-24.8	10.684	11.455	11.180	329.1	52.5
PgtRgt	3380326522526582528	06 50 45.73296 +23 18 08.61846			0.308	75.82	64.74	26.908	24.6	0.366	11.679	0	23.3	120.1
U36044	2036-08-26 11:44:39.17	07 16 35.28121 +22 39 45.27062	60.8	55.3	3.168	7.02	27.27	19.478		14.763	18.516	17.353	318.2	45.7
XRgt	869287808614381184	07 16 35.30920 +22 39 48.41478			44.753	81.69	59.04	14.816			18.852	0	22.6	109.9
U36045	2036-08-28 01:12:26.66	07 16 53.78442 +22 39 15.26782	12.2	11.3	1.602	7.04	26.72	19.459	-21.2	14.090	15.496	15.037	114.8	47.1
PgtRgt	869286129283474688	07 16 53.79859 +22 39 16.85759			22.606	81.75	58.97	27.698	6.7	0.080	15.811	0	22.6	130.3
U36046	2036-08-30 03:30:13.53	07 17 18.05021 +22 38 35.02709	45.4	35.6	0.351	7.05	25.97	19.432	-32.2	14.904	18.037	17.073	78.4	49.1
PgtRgt	869273824200844032	07 17 18.05332 +22 38 35.37525			4.944	81.83	58.88	29.924	28.6	0.073	18.321	0	22.6	156.2
U36047	2036-08-31 01:22:20.65	07 17 28.36841 +22 38 15.10587	44.4	36.2	2.581	7.06	25.64	19.420		14.541	18.003	16.857	109.5	49.9
XRgt	869273519259477760	07 17 28.39132 +22 38 17.66736			36.353	81.86	58.84	20.844		0.098	18.273	0	22.6	167.0
U36048	2036-09-06 23:33:13.04	07 18 42.62584 +22 36 08.83615	15.2	13.1	1.359	7.08	22.98	19.324	-26.7	13.516	16.214	15.381	130.3	56.3
PgtRgt	869229435715312640	07 18 42.63792 +22 36 10.18446			19.042	82.10	58.56	24.749	14.1	0.143	16.365	0	22.5	110.3
U36049	2036-09-08 13:56:10.64	07 18 58.67426 +22 35 44.63787	15.2	12.9	2.003	187.07	22.34	19.301		14.406	16.306	15.699	273.0	57.8
PRgt	869228473642627328	07 18 58.65644 +22 35 42.65021			28.038	82.16	58.50	21.610		0.074	16.426	0	22.5	90.8
U36050	2036-09-08 18:01:01.61	07 19 00.30549 +22 35 36.62549	13.2	11.5	3.166	7.08	22.27	19.299		13.712	15.851	15.195	211.6	58.0
XRgt	869228508002364544	07 19 00.33365 +22 35 39.76767			44.318	82.16	58.49	12.858		0.110	15.968	0	22.5	88.6

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U36051	2036-09-18 02:36:53.44	07 20 24.57800 +22 33 13.63890	9.5	7.7	1.827	7.01	18.23	19.156	-11.0	13.735	15.167	14.670	73.8	66.8
PgtRgt	869234142999637760	07 20 24.59409 +22 33 15.45240			25.386	82.43	58.18	18.472	-4.4		15.066	0	22.5	39.4
U36052	2036-09-20 01:08:20.76	07 20 39.96972 +22 32 48.77829	12.7	9.7	0.546	6.98	17.35	19.126	-33.0	12.576	15.660	14.663	94.1	68.6
PgtRgt	869233932545649536	07 20 39.97451 +22 32 49.32045			7.577	82.48	58.12	20.037	27.7	0.239	15.505	0	22.5	68.2
U36053	2036-09-24 16:43:42.78	07 21 13.77592 +22 31 50.97174	39.6	31.5	1.391	6.88	15.17	19.050	-26.7	14.927	17.799	16.809	215.8	73.0
PgtRgt	866236530704665472	07 21 13.78795 +22 31 52.35239			19.214	82.59	57.99	16.438	14.4	0.073	17.499	0	22.5	133.1
U36054	2036-09-26 17:06:17.28	07 21 27.03869 +22 31 27.24621	20.3	17.2	3.020	6.82	14.20	19.017		14.901	16.610	16.044	208.2	74.9
XRgt	866235843509892224	07 21 27.06459 +22 31 30.24464			41.650	82.63	57.94	9.631			16.238	0	22.5	158.4
U36055	2036-09-26 18:10:32.73	07 21 27.34426 +22 31 29.23579	7.4	6.3	0.541	6.82	14.18	19.016	-33.2	13.232	14.460	14.019	192.1	75.0
PgtRgt	866235843509891968	07 21 27.34890 +22 31 29.77341			7.468	82.63	57.94	16.434	28.0	0.108	14.087	0	22.5	158.9
U36056	2036-10-02 05:06:54.95	07 21 58.92434 +22 30 38.27655	5.9	5.3	0.037	186.58	11.53	18.924	-32.1	12.732	14.085	13.602	22.8	80.2
PgtRgt	866233541407406208	07 21 58.92403 +22 30 38.23943			0.513	82.73	57.82	13.533	32.5		13.487	0	22.4	135.8
U36057	2036-10-03 16:24:16.19	07 22 06.31312 +22 30 23.40420	11.5	10.6	3.073	6.50	10.80	18.899		14.301	15.634	15.137	212.0	81.6
XRgt	866233403968449536	07 22 06.33821 +22 30 26.45765			42.125	82.75	57.80	7.177		0.071	14.966	0	22.4	118.1
U36058	2036-10-09 21:04:25.58	07 22 32.35562 +22 29 47.98242	11.2	9.2	0.968	185.88	7.71	18.794	-23.4	14.066	15.378	14.951	136.0	87.6
PgtRgt	866315248865447168	07 22 32.34846 +22 29 47.01982			13.190	82.83	57.70	8.782	31.6	0.077	14.343	0	22.4	39.2
U36059	2036-10-11 05:58:10.72	07 22 36.92071 +22 29 37.17296	31.8	22.6	3.411	5.68	7.02	18.770		14.619	17.153	16.297	1.2	89.0
XRgt	866314527310939136	07 22 36.94505 +22 29 40.56681			46.429	82.84	57.68	3.278		0.077	16.016	0	22.4	20.8
U36060*	2036-10-21 18:36:11.99	07 22 57.86343 +22 29 21.48859	55.5	48.2	2.204	177.93	1.66	18.590		12.856	15.974	14.952	161.4	99.3
PtRgt	866311778531852288	07 22 57.86916 +22 29 19.28628			29.712	82.90	57.60	1.697		0.191	13.269	0	22.4	128.5
U36061	2036-11-18 05:51:24.78	07 21 52.87609 +22 32 18.73352	5.7	5.2	2.005	189.27	-11.51	18.159		11.890	12.949	12.562	325.3	127.1
PtRgt	866234400400864768	07 21 52.85280 +22 32 16.75313			26.412	82.67	57.84	11.512		0.215	12.349	0	22.5	129.8
U36062	2036-11-18 13:14:43.86	07 21 51.21371 +22 32 22.81092	12.8	11.1	2.324	189.25	-11.64	18.155		14.422	15.848	15.377	214.2	127.4
XRgt	866234572199557632	07 21 51.18674 +22 32 20.51667			30.607	82.66	57.85	10.847		0.063	15.261	0	22.5	133.9
U36063	2036-11-24 07:25:30.44	07 21 16.57649 +22 33 40.95611	20.4	17.0	3.823	188.93	-14.00	18.080		12.894	15.961	14.977	295.6	133.4
XRgt	866236736863091072	07 21 16.53367 +22 33 37.17982			50.124	82.55	57.98	2.298		0.187	15.574	0	22.5	154.2
U36064	2036-12-02 18:42:28.65	07 20 14.37314 +22 35 52.66966	14.4	12.5	3.194	188.57	-17.06	17.981		14.994	16.115	15.684	117.8	142.2
XRgt	869237441534288640	07 20 14.33876 +22 35 49.51141			41.653	82.34	58.21	11.435		0.046	15.942	0	22.5	48.5
U36065	2036-12-14 12:51:05.62	07 18 29.16835 +22 39 22.38018	10.7	8.8	1.146	8.17	-20.43	17.875	19.5	13.433	15.688	14.989	193.6	154.5
PgtRgt	869276916576698368	07 18 29.18013 +22 39 23.51495			14.862	81.98	58.60	22.643	-30.5		15.711	0	22.6	117.0
U36066	2036-12-21 12:26:14.71	07 17 18.53891 +22 41 40.15004	16.7	14.8	1.800	7.95	-21.86	17.829	4.4	14.869	16.237	15.733	192.6	161.9
PgtRgt	869291558122119168	07 17 18.55691 +22 41 41.93273			23.276	81.75	58.87	22.450	-20.1	0.052	16.334	0	22.6	154.7
U36067	2036-12-24 14:09:07.03	07 16 46.06155 +22 42 43.08204	24.9	24.3	1.297	7.86	-22.33	17.814	16.8	14.722	16.767	16.159	163.8	165.2
PgtRgt	869289462178092160	07 16 46.07437 +22 42 44.36647			16.752	81.63	58.99	24.348	-28.8	0.083	16.886	0	22.6	118.3
U36068	2036-12-31 04:36:21.69	07 15 34.19563 +22 45 00.51278	33.9	26.1	0.483	187.67	-23.03	17.791	31.9	14.908	17.301	16.529	300.1	172.2
PgtRgt	3367477182968304256	07 15 34.19096 +22 45 00.03412			6.232	81.39	59.26	26.321	-27.2	0.062	17.454	0	22.7	33.8
U37001	2037-01-02 19:14:02.49	07 15 05.24469 +22 45 53.68262	13.7	11.0	0.042	7.59	-23.19	17.785	30.2	14.718	15.836	15.414	78.0	174.9
PgtRgt	3367478011898324608	07 15 05.24509 +22 45 53.72394			0.538	81.29	59.36	26.672	-30.6	0.053	15.997	0	22.7	4.9
U37002	2037-01-05 04:09:54.39	07 14 38.76138 +22 46 40.60072	10.2	7.2	1.768	7.53	-23.28	17.782	5.5	13.870	15.264	14.795	301.6	177.4
PgtRgt	3367489247532793856	07 14 38.77814 +22 46 42.35356			22.803	81.20	59.46	23.910	-20.9	0.078	15.429	0	22.7	39.7
U37003	2037-01-05 10:46:50.46	07 14 35.66754 +22 46 44.99976	12.1	8.9	3.014	7.53	-23.29	17.782		14.496	15.614	15.178	202.1	177.7
XRgt	3367489247532796672	07 14 35.69607 +22 46 47.98749			38.867	81.19	59.47	17.078		0.058	15.779	0	22.7	43.8
U37004	2037-01-09 13:59:11.09	07 13 49.43631 +22 48 14.04056	7.6	6.7	2.203	187.41	-23.30	17.781		13.231	14.852	14.292	149.8	177.8
PtRgt	3367487323387490176	07 13 49.41578 +22 48 11.85553			28.415	81.03	59.65	22.157		0.115	15.018	0	22.7	102.3
U37005	2037-01-15 04:18:08.17	07 12 47.03187 +22 50 02.19769	17.2	14.5	0.550	7.25	-23.03	17.789	26.0	14.112	16.749	15.959	289.2	171.9
PgtRgt	3367537488605289600	07 12 47.03689 +22 50 02.74319			7.094	80.81	59.88	26.105	-31.3		16.902	0	22.8	173.9
U37006	2037-01-18 04:03:57.68	07 12 14.09757 +22 50 56.80756	16.0	12.3	3.468	7.16	-22.76	17.797		14.578	15.990	15.489	289.7	168.7
XRgt	3367525870717990784	07 12 14.12885 +22 51 00.24853			44.763	80.69	60.00	12.474		0.056	16.130	0	22.8	149.4
U37007	2037-01-23 11:01:06.28	07 11 17.15211 +22 52 36.92701	18.0	14.5	1.289	7.02	-22.04	17.817	16.2	14.956	16.530	15.959	180.0	163.1
PgtRgt	3367529070469443712	07 11 17.16351 +22 52 38.20594			16.652	80.49	60.21	23.733	-27.9	0.050	16.636	0	22.8	86.3

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U37008	2037-01-24 15:50:26.71	07 11 04.48244 +22 52 56.02666	9.2	7.8	3.684	6.99	-21.84	17.823		13.122	14.767	14.211	106.4	161.8
XRgt	3368279349717735168	07 11 04.51487 +22 52 59.68364			47.627	80.45	60.26	8.865		0.117	14.862	0	22.8	71.5
U37009	2037-01-28 03:37:52.17	07 10 28.44243 +22 53 57.00430	14.1	12.9	3.350	6.90	-21.17	17.843		14.784	16.179	15.672	285.9	158.1
XRgt	3368277563011218304	07 10 28.47154 +22 54 00.33030			43.356	80.32	60.39	12.688		0.052	16.241	0	22.8	25.4
U37010*	2037-02-01 09:38:29.33	07 09 46.27653 +22 55 11.31063	25.2	22.1	1.041	186.78	-20.23	17.872	29.3	13.639	14.932	14.458	191.4	153.7
PgtRgt	3368288867365179136	07 09 46.26763 +22 55 10.27671			13.496	80.17	60.55	22.174	-19.7	0.087	14.944	0	22.9	37.9
U37011	2037-02-13 15:06:29.97	07 07 57.83522 +22 58 01.47066	13.2	11.2	2.564	6.44	-16.66	17.982		14.246	16.080	15.471	96.9	140.9
XRgt	3368248563392174336	07 07 57.85604 +22 58 04.01869			33.441	79.78	60.95	14.253		0.075	15.882	0	22.9	157.9
U37012	2037-02-21 22:12:22.25	07 06 58.03162 +22 59 32.53706	11.5	9.0	2.993	6.19	-13.57	18.077		14.867	15.817	15.523	342.0	132.3
XRgt	3368256328692467584	07 06 58.05501 +22 59 35.51304			39.246	79.56	61.17	9.623		0.043	15.396	0	22.9	58.4
U37013	2037-03-29 21:08:28.20	07 05 25.34134 +23 01 31.81876	14.0	11.6	0.053	188.93	3.33	18.620	-27.4	14.685	16.009	15.550	322.2	96.0
PgtRgt	3368426542538702080	07 05 25.34074 +23 01 31.76630			0.717	79.23	61.51	3.833	28.0	0.057	14.063	0	23.0	62.4
U37014	2037-04-10 03:59:13.15	07 05 57.20388 +23 00 34.54905	9.0	7.8	3.169	187.41	9.02	18.809		12.611	16.148	14.766	208.5	85.0
XRgt	3368423042141120256	07 05 57.17426 +23 00 31.40613			43.236	79.36	61.40	5.331		0.233	15.284	0	22.9	145.4
U37015	2037-04-13 04:16:11.97	07 06 10.52908 +23 00 05.01261	18.1	13.8	2.602	7.29	10.53	18.859		14.587	16.206	15.675	201.3	82.1
XRgt	3368258592138361984	07 06 10.55298 +23 00 07.59353			35.590	79.41	61.35	8.389		0.062	15.509	0	22.9	109.9
U37016	2037-04-13 16:31:35.86	07 06 13.02633 +23 00 03.70544	53.0	39.8	0.471	187.27	10.78	18.868	-24.8	14.588	18.160	17.011	17.0	81.6
PgtRgt	3368258523418884224	07 06 13.02201 +23 00 03.23801			6.448	79.42	61.34	12.082	29.7		17.489	0	22.9	103.8
U37017	2037-04-24 18:39:08.68	07 07 20.50501 +22 58 03.70385	17.3	14.0	2.652	7.08	16.13	19.049		14.387	16.463	15.830	334.5	71.1
XRgt	336825546969900832	07 07 20.52868 +22 58 06.33548			36.637	79.67	61.09	12.565		0.075	16.230	0	22.9	40.5
U37018	2037-04-30 13:15:41.94	07 08 05.69920 +22 56 48.96675	4.4	3.8	0.014	187.08	18.74	19.139	-28.7	10.050	12.132	11.466	49.8	65.6
PgtRgt	3368245848972447232	07 08 05.69911 +22 56 48.95149			0.201	79.84	60.92	21.238	28.8	0.647	12.061	0	22.9	124.4
U37019	2037-05-01 19:00:40.94	07 08 16.26103 +22 56 33.68935	5.6	5.0	2.805	187.07	19.29	19.158		12.759	13.878	13.474	322.4	64.5
XRgt	3368245711533483392	07 08 16.23604 +22 56 30.90596			38.970	79.88	60.88	14.103		0.142	13.839	0	22.9	141.7
U37020	2037-05-06 08:28:55.07	07 08 57.47527 +22 55 19.88052	8.3	6.2	0.332	7.08	21.25	19.225	-30.2	12.354	14.521	13.812	116.0	60.2
PgtRgt	3368198673051624704	07 08 57.47823 +22 55 20.21018			4.632	80.03	60.73	24.024	26.7	0.207	14.587	0	22.9	159.6
U37021	2037-05-06 11:11:33.63	07 08 58.56359 +22 55 20.13507	15.4	11.8	1.774	187.08	21.30	19.227	1.3	14.139	15.990	15.351	75.2	60.1
PgtRgt	3368198673051624192	07 08 58.54777 +22 55 18.37492			24.734	80.03	60.73	21.111	15.1	0.084	16.059	0	22.9	158.2
U37022*	2037-05-08 14:43:25.26	07 09 19.31129 +22 54 42.54066	70.8	64.7	0.178	7.09	22.20	19.258	-29.9	14.995	16.678	15.952	20.2	58.1
PgtRgt	3368289348401549440	07 09 19.31288 +22 54 42.71725			2.486	80.11	60.65	25.183	28.0	0.050	16.791	0	22.8	132.7
U37023	2037-05-09 11:03:28.64	07 09 27.75026 +22 54 30.43574	8.0	6.5	2.205	187.10	22.54	19.270		13.047	14.504	14.030	74.4	57.3
XRgt	3368289210962587136	07 09 27.73055 +22 54 28.24719			30.823	80.14	60.62	20.260		0.129	14.634	0	22.8	122.8
U37024	2037-05-14 15:24:41.01	07 10 21.86317 +22 52 54.23485	16.7	14.7	0.691	7.13	24.60	19.341	-30.6	14.973	16.447	15.951	4.3	52.5
PgtRgt	3368277150694368128	07 10 21.86938 +22 52 54.92081			9.697	80.33	60.42	27.477	23.4	0.052	16.672	0	22.8	59.8
U37025	2037-05-15 11:17:47.17	07 10 30.94921 +22 52 40.55814	5.1	4.7	1.328	187.14	24.91	19.352	-13.2	10.224	11.134	10.790	65.2	51.7
PgtRgt	3368274504994506112	07 10 30.93730 +22 52 39.23937			18.643	80.36	60.39	26.392	26.1	0.493	11.373	0	22.8	49.3
U37026	2037-05-17 23:26:44.37	07 10 59.02846 +22 51 50.85869	33.1	27.9	0.301	187.16	25.84	19.385	-27.4	14.765	17.279	16.537	240.6	49.4
PgtRgt	3368279207980352128	07 10 59.02575 +22 51 50.55974			4.236	80.46	60.28	29.360	30.6		17.557	0	22.8	16.3
U37027	2037-05-18 12:10:33.76	07 11 05.07053 +22 51 37.34204	14.0	11.3	2.697	7.16	26.04	19.391		14.402	15.639	15.238	49.2	49.0
XRgt	3368279246638589952	07 11 05.09487 +22 51 40.01845			37.937	80.49	60.26	19.655		0.064	15.925	0	22.8	9.2
U37028	2037-05-18 19:46:24.66	07 11 08.73301 +22 51 33.22816	9.5	8.0	0.464	7.17	26.15	19.395	-30.9	13.492	14.881	14.389	294.9	48.7
PgtRgt	3367528623792855040	07 11 08.73720 +22 51 33.68828			6.523	80.50	60.25	29.574	26.0	0.102	15.173	0	22.8	5.0
U37029	2037-05-19 15:10:54.44	07 11 18.08704 +22 51 14.87471	25.4	20.6	2.531	7.18	26.44	19.405		14.979	16.854	16.209	3.0	47.9
XRgt	3367528761231801728	07 11 18.10991 +22 51 17.38559			35.617	80.53	60.21	21.582			17.157	0	22.8	6.5
U37030	2037-05-20 20:25:19.91	07 11 32.44491 +22 50 55.97346	7.2	6.0	3.533	187.19	26.87	19.420		12.757	14.232	13.723	283.3	46.8
XRgt	3367528005317548544	07 11 32.41292 +22 50 52.46821			49.763	80.58	60.16	4.668		0.301	14.553	0	22.8	23.2
U37031	2037-05-22 01:44:18.99	07 11 46.98373 +22 50 28.75420	26.1	22.5	1.706	187.20	27.28	19.435	-1.7	14.833	16.891	16.269	202.4	45.7
PgtRgt	3367526321690358912	07 11 46.96825 +22 50 27.06203			24.042	80.63	60.10	27.476	17.6	0.061	17.228	0	22.8	40.3
U37032	2037-09-01 13:06:03.36	07 36 19.07521 +22 02 15.32126	11.2	8.7	1.913	8.82	26.93	19.403		13.859	15.447	14.904	297.1	46.7
PRgt	865489378193570176	07 36 19.09632 +22 02 17.21200			26.926	85.30	54.57	27.820		0.088	15.770	0	22.0	59.3

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U37033	2037-09-02 10:57:22.17	07 36 29.77070 +22 01 57.11662	9.3	7.5	2.915	188.83	26.62	19.391		13.881	15.092	14.668	328.4	47.5
XRgt	865486491975735424	07 36 29.73854 +22 01 54.23641			40.992	85.33	54.53	19.277		0.091	15.402	0	21.9	48.0
U37034	2037-09-03 04:42:44.60	07 36 38.28506 +22 01 34.83471	13.5	10.8	0.930	8.83	26.35	19.382	-34.8	13.347	15.850	15.057	61.3	48.2
PgtRgt	865486251457562752	07 36 38.29533 +22 01 35.75359			13.072	85.36	54.50	30.988	25.5	0.155	16.149	0	21.9	38.7
U37035	2037-09-16 11:37:09.03	07 38 57.10907 +21 56 36.99373	24.3	19.5	1.569	188.83	21.12	19.196	-11.0	14.990	17.072	16.366	305.2	60.6
PgtRgt	865449005501278592	07 38 57.09176 +21 56 35.44373			21.838	85.75	53.97	23.355	25.0	0.063	17.131	0	21.9	150.9
U37036	2037-09-25 19:19:09.79	07 40 15.74181 +21 53 46.43405	17.5	16.6	0.096	188.71	16.98	19.050	-36.0	14.016	15.695	14.876	180.9	69.4
PgtRgt	865433990294814208	07 40 15.74076 +21 53 46.33871			1.333	85.96	53.67	20.909	37.0	0.088	15.518	1	21.8	96.2
U37037	2037-10-08 18:14:17.74	07 41 36.17518 +21 50 54.93671	10.3	8.0	3.828	8.17	10.74	18.835		13.989	14.678	14.433	184.6	81.8
XRt	673282066914606080	07 41 36.21424 +21 50 58.72569			52.290	86.18	53.37			0.138	14.003	0	21.8	76.9
U37038	2037-10-15 22:00:13.97	07 42 05.08470 +21 50 03.18427	8.6	8.3	0.166	7.35	7.12	18.712	-37.8	12.878	14.628	14.044	121.2	88.8
PgtRgt	674771458493848576	07 42 05.08623 +21 50 03.34912			2.256	86.26	53.25	8.865	36.3	0.159	13.507	0	21.7	177.6
U37039	2037-10-17 13:53:37.21	07 42 10.11974 +21 49 51.93106	8.3	7.1	2.559	7.01	6.28	18.684		12.255	14.502	13.768	241.3	90.4
XRgt	674770633860125312	07 42 10.14217 +21 49 54.47117			34.680	86.27	53.24	5.733		0.231	13.244	0	21.7	161.8
U37040*	2037-10-21 14:57:23.93	07 42 19.81979 +21 49 39.30436	26.3	23.8	0.057	185.61	4.22	18.614	-37.3	13.651	15.030	14.559	221.4	94.4
PgtRgt	674770496421166464	07 42 19.81939 +21 49 39.24763			0.770	86.29	53.20	5.318	37.7	0.104	13.342	0	21.7	113.7
U37041	2037-11-03 22:57:16.10	07 42 25.04337 +21 49 50.12374	11.9	10.2	3.727	16.82	-2.56	18.990		13.842	15.290	14.811	88.3	107.7
XRgt	674770530781059456	07 42 25.12080 +21 49 53.69152			49.710	86.30	53.18	0.005		0.093	13.059	0	21.7	58.3
U37042	2037-11-30 03:44:47.73	07 40 39.63600 +21 54 56.91516	15.1	11.7	0.583	10.76	-14.37	18.006	31.3	14.082	16.048	15.448	350.1	134.5
PgtRgt	865439041177109632	07 40 39.64381 +21 54 57.48752			7.608	85.98	53.58	17.469	-37.6	0.090	15.689	0	21.8	43.3
U37043*	2037-12-02 01:04:27.85	07 40 26.58681 +21 55 28.16092	22.1	18.7	3.623	10.66	-15.09	17.983		12.400	14.702	13.958	28.3	136.5
XRgt	865439934530311040	07 40 26.63497 +21 55 31.72090			47.247	85.95	53.63	6.479		0.214	14.396	0	21.8	70.1
U37044	2037-12-07 21:12:07.37	07 39 42.35968 +21 57 22.21966	8.2	6.5	3.937	10.41	-17.16	17.917		12.862	14.929	14.280	80.5	142.6
XRt	865438147823930496	07 39 42.41081 +21 57 26.09179			51.160	85.82	53.80			0.162	14.763	0	21.9	154.1
U37045*	2037-12-12 12:04:58.13	07 39 03.43748 +21 59 02.41912	123.3	105.1	2.382	10.24	-18.61	17.871		14.103	18.055	16.617	212.5	147.4
PRgt	865449550960392576	07 39 03.46792 +21 59 04.76272			30.869	85.70	53.94	18.129			17.977	0	21.9	145.7
U37046	2037-12-20 01:37:59.80	07 37 53.26016 +22 01 59.21843	21.3	19.9	0.337	189.99	-20.57	17.808	36.9	14.485	16.830	16.085	1.5	155.4
PgtRgt	865477695882660096	07 37 53.25596 +22 01 58.88675			4.350	85.50	54.21	25.002	-33.4	0.078	16.860	0	21.9	54.4
U38001	2038-01-01 13:19:13.97	07 35 44.16077 +22 07 11.56492	20.3	15.7	2.938	189.60	-22.71	17.740		14.412	16.711	16.015	173.4	168.6
XRgt	865677325963335680	07 35 44.12550 +22 07 08.66763			37.808	85.12	54.70	18.278			16.849	0	22.0	117.5
U38002	2038-01-02 19:37:46.68	07 35 30.42467 +22 07 41.38425	6.2	5.3	0.570	189.56	-22.84	17.736	36.5	7.855	10.298	9.565	77.4	169.9
PgtRgt	865677841359417216	07 35 30.41789 +22 07 40.82172			7.330	85.08	54.75	27.384	-30.7	1.806	10.442	0	22.0	135.2
U38003	2038-01-03 00:15:31.30	07 35 28.30568 +22 07 44.80181	23.9	21.7	0.950	9.56	-22.86	17.735	25.9	14.750	16.559	15.598	7.8	170.2
PgtRgt	865677837062752896	07 35 28.31702 +22 07 45.73818			12.214	85.07	54.76	26.889	-35.2	0.057	16.704	0	22.0	137.9
U38004	2038-01-03 18:00:07.28	07 35 20.21653 +22 08 02.02286	20.5	16.2	2.607	9.54	-22.93	17.733		14.808	16.760	16.127	100.9	170.9
XRgt	865680830656659712	07 35 20.24762 +22 08 04.59428			33.535	85.05	54.79	20.931		0.061	16.909	0	22.0	148.1
U38005	2038-01-08 04:40:04.78	07 34 31.27871 +22 09 57.24860	14.6	12.0	0.806	9.40	-23.22	17.724	27.7	14.741	16.127	15.675	296.3	175.6
PgtRgt	865599810393249536	07 34 31.28820 +22 09 58.04425			10.367	84.90	54.98	27.466	-35.7	0.058	16.289	0	22.1	153.1
U38006	2038-01-08 14:03:01.13	07 34 26.92476 +22 10 05.53219	29.9	24.8	2.511	9.39	-23.23	17.723		14.318	17.147	16.123	155.2	176.1
XRgt	865600458932323072	07 34 26.95427 +22 10 08.00959			32.277	84.89	54.99	21.732		0.090	17.310	0	22.1	148.2
U38007	2038-01-09 17:55:24.72	07 34 14.06717 +22 10 37.99175	6.2	5.3	0.418	189.36	-23.27	17.722	36.2	12.805	14.298	13.795	95.9	177.3
PgtRgt	865599294997189376	07 34 14.06227 +22 10 37.57925			5.373	84.85	55.04	27.936	-31.9	0.149	14.463	0	22.1	133.9
U38008	2038-01-12 07:18:14.22	07 33 45.64377 +22 11 44.51018	14.7	11.9	2.103	189.29	-23.29	17.720		14.383	15.932	15.442	252.5	179.5
PtRgt	865602868410004352	07 33 45.61934 +22 11 42.43483			27.026	84.77	55.15	23.743		0.071	16.098	0	22.1	103.2
U38009	2038-01-12 09:58:04.87	07 33 44.40959 +22 11 47.39928	21.8	19.3	2.188	189.28	-23.29	17.720		14.800	16.759	16.138	212.5	179.5
PtRgt	865602868410005120	07 33 44.38416 +22 11 45.23948			28.126	84.76	55.15	23.415		0.062	16.924	0	22.1	101.9
U38010	2038-01-13 17:46:02.28	07 33 29.60359 +22 12 15.28451	8.8	7.6	3.396	9.25	-23.28	17.720		12.938	14.723	14.122	94.1	178.4
XRgt	865649975611318784	07 33 29.64288 +22 12 18.63606			43.641	84.72	55.21	14.554		0.145	14.888	0	22.1	86.1
U38011	2038-01-20 01:29:19.07	07 32 19.64010 +22 14 51.79881	12.4	9.9	3.474	9.07	-22.97	17.728		14.244	15.620	15.193	331.8	171.7
XRgt	865659287100466432	07 32 19.67954 +22 14 55.22926			44.666	84.51	55.48	13.348		0.071	15.770	0	22.2	6.0

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U38012	2038-01-20 06:50:55.85	07 32 17.24912 +22 15 02.46079	14.1	11.6	1.825	189.06	-22.95	17.729	20.9	14.155	15.681	15.171	251.1	171.5
PgtRgt	865659355819944320	07 32 17.22842 +22 15 00.65834			23.469	84.50	55.48	24.463	-5.2	0.075	15.831	0	22.2	2.9
U38013	2038-01-23 19:05:12.96	07 31 38.99715 +22 16 24.91875	19.7	16.9	0.087	188.97	-22.61	17.739	34.7	13.977	16.877	15.923	63.9	167.8
PgtRgt	865639702049428480	07 31 38.99617 +22 16 24.83280			1.119	84.39	55.63	27.110	-33.9	0.118	17.010	0	22.2	47.2
U38014	2038-01-28 07:22:03.79	07 30 50.87337 +22 18 08.82873	5.7	4.2	0.542	8.83	-22.00	17.757	30.0	12.169	13.735	13.208	235.1	163.0
PgtRgt	866390599772195840	07 30 50.87937 +22 18 09.36467			6.985	84.24	55.81	26.074	-35.4	0.199	13.838	0	22.2	111.9
U38015	2038-01-28 21:08:49.86	07 30 44.90203 +22 18 26.18026	33.5	27.6	3.894	188.81	-21.91	17.760		14.431	17.717	16.669	27.8	162.4
XRgt	866390629834436992	07 30 44.85903 +22 18 22.33190			50.162	84.23	55.83	2.756		0.089	17.815	0	22.2	120.0
U38016*	2038-01-31 15:14:43.33	07 30 16.38236 +22 19 25.26391	25.5	21.2	1.915	188.73	-21.42	17.775	16.4	13.957	15.067	14.664	113.5	159.5
PgtRgt	866393554709704960	07 30 16.36141 +22 19 23.37159			24.681	84.14	55.94	22.332	-0.3	0.076	15.141	0	22.2	157.5
U38017	2038-02-06 23:11:54.78	07 29 13.70384 +22 21 36.72236	5.1	4.2	1.137	188.56	-20.02	17.817	32.5	10.480	11.628	11.215	347.7	152.8
PgtRgt	866402758821944960	07 29 13.69167 +22 21 35.59708			14.692	83.95	56.18	22.847	-21.9	0.438	11.629	0	22.3	122.0
U38018	2038-02-11 16:47:04.94	07 28 29.95672 +22 23 02.89900	22.8	19.0	3.241	8.42	-18.73	17.856		13.358	16.645	15.580	79.1	147.8
XRgt	866450626235028224	07 28 29.99095 +22 23 06.10467			41.967	83.81	56.34	12.418		0.165	16.573	0	22.3	65.7
U38019	2038-02-18 21:10:25.61	07 27 29.87903 +22 25 09.43979	6.3	4.9	1.363	188.21	-16.44	17.926	29.6	11.434	13.607	12.910	5.9	140.4
PgtRgt	866090433098001152	07 27 29.86499 +22 25 08.09083			17.720	83.63	56.57	18.290	-17.4	0.316	13.394	0	22.3	28.9
U38020	2038-03-04 17:19:46.44	07 25 59.14436 +22 28 03.45908	9.3	7.5	1.084	7.69	-11.08	18.094	22.1	13.585	15.311	14.719	49.5	126.1
PgtRgt	866276972116954496	07 25 59.15482 +22 28 04.53322			14.224	83.35	56.91	12.600	-32.0	0.103	14.669	0	22.4	139.9
U38021	2038-03-07 00:59:33.26	07 25 47.64678 +22 28 28.86802	7.3	5.8	2.924	187.57	-10.07	18.126		13.233	14.622	14.173	292.3	123.7
XRgt	866276491080621440	07 25 47.61898 +22 28 25.96912			38.445	83.32	56.95	7.752		0.111	13.876	0	22.4	111.9
U38022	2038-03-07 08:26:34.70	07 25 46.13597 +22 28 26.09227	11.6	8.7	2.584	7.56	-9.93	18.130		13.784	15.328	14.808	180.2	123.4
XRgt	866276491080622592	07 25 46.16050 +22 28 28.65428			33.984	83.31	56.96	8.721		0.090	14.568	0	22.4	108.2
U38023	2038-03-07 13:18:46.21	07 25 45.25006 +22 28 33.72050	17.1	13.3	3.364	187.54	-9.84	18.133		14.695	16.539	15.911	106.9	123.2
XRgt	866276491080622848	07 25 45.21820 +22 28 30.38581			44.239	83.31	56.96	5.818		0.063	15.769	0	22.4	105.7
U38024	2038-03-08 22:22:21.67	07 25 39.03329 +22 28 39.57504	44.5	33.5	2.086	7.46	-9.22	18.152		14.872	18.139	17.167	329.7	121.8
PtRgt	866276452427567744	07 25 39.05284 +22 28 41.64377			27.468	83.29	56.99	9.164			17.298	0	22.4	89.4
U38025	2038-04-28 23:18:06.06	07 26 51.74085 +22 25 18.59430	56.6	45.2	1.378	189.05	15.79	18.977	-14.8	14.800	18.345	17.268	265.7	71.8
PgtRgt	866091150355202176	07 26 51.72522 +22 25 17.23340			18.967	83.54	56.71	17.355	28.5	0.086	18.089	0	22.3	130.9
U38026	2038-04-29 03:27:03.72	07 26 52.91608 +22 25 11.65770	13.5	11.4	2.910	9.04	15.87	18.980		13.921	15.865	15.226	203.3	71.6
XRgt	866091154652377600	07 26 52.94907 +22 25 14.53128			40.054	83.54	56.71	11.601			15.614	0	22.3	128.8
U38027	2038-05-06 23:57:49.93	07 27 54.84842 +22 23 01.23566	16.0	13.4	2.833	188.99	19.45	19.102		14.652	16.006	15.554	248.1	64.2
XRgt	866078922585635968	07 27 54.81649 +22 22 58.43783			39.244	83.74	56.48	14.708		0.062	15.976	0	22.3	35.4
U38028	2038-05-11 10:23:02.78	07 28 34.96367 +22 21 33.62908	101.9	92.9	3.270	188.99	21.35	19.168		14.653	18.680	17.406	87.6	60.1
XRgt	866450347059761920	07 28 34.92681 +22 21 30.39919			45.460	83.86	56.33	10.954			18.751	0	22.3	20.7
U38029	2038-05-26 21:50:42.99	07 31 20.88085 +22 15 20.25599	10.9	8.7	3.811	9.09	27.24	19.374		13.752	15.467	14.910	261.1	45.8
XRt	865640148726034944	07 31 20.92424 +22 15 24.01917			53.550	84.37	55.70			0.094	15.803	0	22.2	124.0
U38030	2038-05-27 19:11:33.10	07 31 31.57597 +22 15 00.30006	17.8	15.3	0.037	9.10	27.54	19.384	-34.5	14.308	16.287	15.654	300.1	45.0
PgtRgt	865639530250740736	07 31 31.57639 +22 15 00.33648			0.518	84.41	55.66	33.018	34.1		16.634	0	22.2	113.4
U38031	2038-09-08 00:58:39.50	07 56 03.68394 +21 15 30.21609	7.6	5.2	2.261	190.56	26.41	19.323		13.127	14.594	14.102	117.7	48.1
XRg	673939265631540096	07 56 03.65430 +21 15 27.99387			31.680	88.46	50.03	26.794		0.125	14.895	0	21.2	163.0
U38032	2038-09-08 04:26:55.67	07 56 05.28079 +21 15 21.58523	19.9	12.0	2.132	10.56	26.36	19.321		14.966	16.506	16.000	65.5	48.2
PRgt	673939192614491392	07 56 05.30875 +21 15 23.68153			29.882	88.46	50.03	27.527		0.054	16.805	0	21.2	164.9
U38033 ^d	2038-09-14 05:15:10.91	07 57 11.43151 +21 12 28.18993	87.1	66.7	2.983	10.57	24.10	19.240		14.764	18.843		47.8	53.8
XRgt	673924280489527040	07 57 11.47063 +21 12 31.12192			41.620	88.63	49.77	18.115			19.046	0	21.1	118.2
U38034 ^d	2038-09-14 05:23:43.19	07 57 11.50928 +21 12 29.19509	62.9	41.9	1.795	10.57	24.10	19.240	-15.2	14.764	18.392	17.032	45.6	53.8
PgtRgt	673924280488626176	07 57 11.53282 +21 12 30.95969			25.049	88.63	49.77	27.243	-0.3		18.594	0	21.1	118.1
U38035	2038-09-24 20:46:31.09	07 58 53.50970 +21 08 05.58771	12.5	8.3	0.016	190.47	19.68	19.083	-40.8	14.333	15.395	15.000	164.9	63.8
PgtRgt	673867316339482880	07 58 53.50949 +21 08 05.57184			0.223	88.88	49.38	25.719	41.0	0.063	15.378	0	21.0	11.6
U38036	2038-11-15 19:41:45.72	08 01 36.15948 +21 02 15.49888	15.6	10.4	2.101	194.67	-5.97	18.218		14.861	16.500	15.970	130.5	114.8
PRgt	670871353311230848	08 01 36.12146 +21 02 13.46646			27.759	89.24	48.75	6.562		0.053	15.187	0	20.9	22.8

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U38037	2038-11-25 03:18:50.27	08 01 01.56144	+21 04 15.43721	8.1	5.8	3.457	193.22	-10.29	18.078		13.636	14.972	14.523	6.9	124.4
XRgt	670875098522723072	08 01 01.50497	+21 04 12.07162			45.328	89.15	48.88	5.905		0.090	14.250	0	21.0	103.9
U38038	2038-12-01 02:49:35.53	08 00 29.64082	+21 05 54.36969	12.2	7.6	0.348	12.76	-12.84	17.996	38.1	13.606	15.587	14.950	8.2	130.5
PgtRgt	670882142268986368	08 00 29.64632	+21 05 54.70917			4.543	89.07	49.01	16.762	-42.2	0.101	15.106	0	21.0	168.1
U38039	2038-12-08 17:39:56.33	07 59 39.00688	+21 08 28.52068	20.8	13.0	3.799	12.37	-15.77	17.902		14.962	16.602	16.068	137.9	138.5
XRgt	673887137611261184	07 59 39.06504	+21 08 32.23183			49.330	88.94	49.20	5.143		0.053	16.344	0	21.0	74.2
U38040*	2038-12-13 11:05:06.85	07 59 02.63561	+21 10 26.94591	26.0	17.2	3.815	192.17	-17.38	17.850		14.938	16.437	15.917	231.8	143.4
XRgt	673891024558949632	07 59 02.57810	+21 10 23.21680			49.389	88.85	49.34	5.436		0.052	16.284	0	21.1	17.3
U38041	2038-12-21 14:09:13.65	07 57 51.82914	+21 13 55.54975	20.2	15.1	1.745	191.87	-19.76	17.775	26.2	14.697	16.608	15.982	177.5	152.0
PgtRgt	673882812581500672	07 57 51.80347	+21 13 53.84237			22.492	88.66	49.62	22.967	-10.1	0.060	16.595	0	21.1	90.7
U38042	2038-12-21 21:50:08.88	07 57 48.84535	+21 14 03.64070	71.6	49.6	1.087	191.86	-19.85	17.772	38.6	14.814	18.527	17.330	61.9	152.3
PgtRgt	673883564198668288	07 57 48.82938	+21 14 02.57730			14.006	88.66	49.63	24.777	-27.5		18.518	0	21.1	95.3
U38043	2038-12-22 13:58:14.23	07 57 42.57904	+21 14 23.58911	4.7	3.6	2.625	191.83	-20.02	17.767		10.852	13.320	12.580	179.2	153.0
XRgt	673883602855486080	07 57 42.54053	+21 14 21.01977			33.827	88.64	49.65	19.438		0.434	13.321	0	21.1	105.2
U38044	2038-12-29 03:10:59.19	07 56 38.47736	+21 17 22.89023	12.9	7.2	3.886	11.62	-21.46	17.721		13.918	15.659	15.078	334.3	159.9
XRgt	673929301307536384	07 56 38.53336	+21 17 26.69692			49.949	88.48	49.90	2.846		0.086	15.736	0	21.2	159.1
U38045	2038-12-31 16:26:15.45	07 56 12.44705	+21 18 42.49877	25.2	16.3	1.082	191.54	-21.91	17.706	38.4	13.790	17.041	16.014	132.8	162.6
PgtRgt	673940021545959552	07 56 12.43156	+21 18 41.43840			13.898	88.41	50.00	27.210	-27.4	0.137	17.140	0	21.2	125.7
U39001	2039-01-01 22:15:12.63	07 55 59.56301	+21 19 20.46900	20.3	13.3	2.330	191.50	-22.10	17.700		14.923	16.774	16.141	44.3	164.0
PtRgt	67394077460022272	07 55 59.52976	+21 19 21.18597			29.909	88.37	50.05	23.085		0.052	16.882	0	21.2	110.4
U39002**	2039-01-04 03:19:14.48	07 55 36.24436	+21 20 21.27549	36.4	25.0	2.863	11.44	-22.41	17.690		10.659	12.967	12.215	326.0	166.3
XRgt	673943766757131648	07 55 36.28501	+21 20 24.07989			36.729	88.31	50.14	20.024		0.463	13.090	0	21.2	83.8
U39003	2039-01-09 02:43:43.28	07 54 42.84752	+21 22 50.21945	21.3	13.2	3.779	11.29	-22.93	17.673		13.980	16.480	15.689	329.8	171.6
XRgt	673757949292181888	07 54 42.90047	+21 22 53.92525			48.436	88.18	50.34	8.789		0.097	16.629	0	21.3	24.1
U39004	2039-01-11 00:05:01.65	07 54 22.26788	+21 23 47.17058	15.0	8.1	4.038	11.23	-23.06	17.668		14.496	15.985	15.511	7.5	173.6
XRt	673759770358441216	07 54 22.32418	+21 23 51.13095			51.740	88.12	50.42			0.060	16.140	0	21.3	1.8
U39005	2039-01-18 07:15:54.57	07 53 02.09894	+21 27 34.82357	10.2	6.0	3.452	191.01	-23.26	17.661		13.973	15.403	14.891	252.3	178.5
XRgt	673770937273169536	07 53 02.05172	+21 27 31.43531			44.214	87.91	50.73	14.809		0.085	15.567	0	21.4	98.1
U39006	2039-01-18 16:58:11.37	07 52 57.61141	+21 27 44.95736	16.7	10.0	1.442	191.00	-23.25	17.661	32.9	14.140	16.344	15.649	106.3	178.1
PgtRgt	673771143431601920	07 52 57.59171	+21 27 43.54209			18.468	87.90	50.75	27.678	-19.5		16.507	0	21.4	103.9
U39007	2039-01-20 18:04:43.99	07 52 35.00013	+21 28 41.51672	12.3	7.3	3.084	10.94	-23.20	17.662		13.393	15.741	14.995	87.5	176.0
XRgt	673816841883639808	07 52 35.04205	+21 28 44.54447			39.503	87.84	50.84	18.726		15.902	0	21.4	133.3	
U39008	2039-01-23 02:18:19.77	07 52 09.34824	+21 29 56.70260	12.5	8.7	3.021	190.87	-23.09	17.666		14.669	17.445	16.384	321.7	173.5
XRgt	673820415296442368	07 52 09.30742	+21 29 53.73608			38.702	87.77	50.94	19.061		0.077	17.601	0	21.4	167.1
U39009	2039-01-23 19:56:34.37	07 52 01.27124	+21 30 15.83462	16.6	9.4	0.574	190.85	-23.04	17.667	40.2	14.833	16.222	15.718	56.4	172.8
PgtRgt	673820655814614400	07 52 01.26350	+21 30 15.27071			7.357	87.75	50.97	29.052	-34.3	0.054	16.376	0	21.4	177.2
U39010	2039-01-26 17:51:44.77	07 51 29.52800	+21 31 36.88968	33.8	21.1	2.858	10.76	-22.80	17.674		14.774	17.565	16.745	84.6	169.7
XRgt	67380976377415552	07 51 29.56625	+21 31 39.69730			36.633	87.67	51.09	20.080		0.073	17.707	0	21.4	141.9
U39011	2039-01-26 23:53:35.48	07 51 26.86968	+21 31 48.39620	5.6	3.4	1.521	190.76	-22.77	17.674	31.2	12.144	13.590	13.084	353.9	169.4
PgtRgt	673809832496893568	07 51 26.84934	+21 31 46.90194			19.497	87.66	51.10	26.769	-17.3	0.201	13.731	0	21.4	138.6
U39012	2039-01-29 23:17:10.93	07 50 54.97855	+21 33 13.80171	6.5	4.3	2.711	190.67	-22.42	17.684		12.619	14.134	13.622	359.9	166.3
XRgt	673812478196757248	07 50 54.94256	+21 33 11.13786			34.768	87.58	51.22	20.776		0.168	14.258	0	21.5	100.8
U39013	2039-01-30 03:13:00.17	07 50 53.16930	+21 33 13.35196	11.5	7.0	2.405	10.67	-22.40	17.685		14.387	15.660	15.187	300.8	166.1
XRgt	673812478196758272	07 50 53.20121	+21 33 15.71526			30.846	87.57	51.23	22.619		0.068	15.783	0	21.5	98.8
U39014 ^d	2039-02-01 10:49:35.68	07 50 28.73689	+21 34 18.14912	16.3	10.0	1.629	10.60	-22.06	17.695	14.1	12.061	16.029		184.3	163.6
PgtRgt	674563719516174208	07 50 28.75837	+21 34 19.74985			20.900	87.51	51.32	25.514	-28.6	0.248	16.135	0	21.5	71.0
U39015 ^d	2039-02-01 10:50:56.13	07 50 28.70943	+21 34 16.85506	7.1	4.2	2.971	10.60	-22.06	17.695		12.061	14.459	13.585	183.9	163.6
XRgt	674563719514980992	07 50 28.74863	+21 34 19.77530			38.128	87.51	51.32	18.533		0.248	14.566	0	21.5	71.0
U39016	2039-02-09 00:09:37.15	07 49 12.17149	+21 37 38.58946	8.6	5.7	0.942	190.38	-20.62	17.738	38.0	14.027	15.058	14.671	336.5	155.7
PgtRgt	674573134084386688	07 49 12.15931	+21 37 37.66317			12.115	87.31	51.62	25.307	-28.8	0.128	15.091	0	21.5	22.7

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U39017	2039-02-11 19:53:01.10	07 48 45.09256 +21 38 50.83291	16.7	13.3	4.228	190.30	-19.96	17.758		14.144	16.229	15.576	37.8	152.7
XRt	674573954421845376	07 48 45.03835 +21 38 46.67338			54.449	87.23	51.72			0.089	16.227	0	21.5	61.3
U39018	2039-02-13 19:05:10.19	07 48 26.64111 +21 39 29.03011	6.8	5.9	4.048	10.24	-19.46	17.773		12.892	14.181	13.737	47.7	150.7
XRt	674483283367786496	07 48 26.69274 +21 39 33.01367			52.182	87.18	51.79			0.141	14.151	0	21.6	88.9
U39019	2039-02-16 02:48:39.70	07 48 05.72334 +21 40 29.78019	13.3	11.9	4.081	190.17	-18.82	17.793		13.560	15.708	15.055	289.4	148.2
XRt	674531146483338752	07 48 05.67166 +21 40 25.76330			52.664	87.13	51.87			0.122	15.643	0	21.6	121.8
U39020	2039-02-19 20:08:10.72	07 47 33.58829 +21 41 49.76719	16.0	13.0	4.180	190.05	-17.71	17.827		14.177	16.117	15.476	25.8	144.4
XRt	674530562367671680	07 47 33.53594 +21 41 45.65090			54.052	87.04	51.99			0.084	15.985	0	21.6	174.0
U39021	2039-02-21 03:57:48.52	07 47 22.61794 +21 42 15.37628	4.5	3.6	2.761	190.01	-17.29	17.840		10.003	12.151	11.482	267.0	143.0
XRgt	674533650447999360	07 47 22.58353 +21 42 12.65574			35.729	87.01	52.04	15.511		0.681	11.993	0	21.6	167.3
U39022	2039-02-28 04:14:12.59	07 46 29.42014 +21 44 17.76725	5.7	4.8	4.127	9.78	-14.81	17.916		11.974	13.737	13.155	255.8	135.7
XRt	674541351325538944	07 46 29.47045 +21 44 21.83410			53.625	86.87	52.24			0.241	13.411	0	21.6	77.4
U39023	2039-03-03 19:54:00.45	07 46 05.26284 +21 45 20.65852	19.5	15.8	1.089	189.64	-13.40	17.960	35.9	14.986	16.232	15.791	17.1	132.0
PgtRgt	674544168824093824	07 46 05.24975 +21 45 19.58481			14.187	86.81	52.33	16.120	-25.7	0.052	15.797	0	21.7	34.0
U39024	2039-04-26 07:56:14.40	07 45 37.53284 +21 45 18.85197	25.6	21.8	3.927	11.11	12.21	18.796		14.839	16.890	16.226	143.7	79.0
XRt	674731257599288704	07 45 37.58716 +21 45 22.70544			53.533	86.75	52.44			0.069	16.354	0	21.7	47.0
U39025*	2039-05-03 04:08:41.46	07 46 19.77789 +21 43 28.15276	92.8	76.4	0.100	10.95	15.47	18.907	-38.2	14.989	16.820	16.146	194.0	72.5
PgtRgt	674540973368423040	07 46 19.77925 +21 43 28.25050			1.365	86.87	52.28	19.358	37.0	0.058	16.542	0	21.6	36.6
U39026	2039-05-06 07:44:52.34	07 46 42.35935 +21 42 23.81195	12.4	10.2	3.613	10.91	16.93	18.957		13.711	15.559	14.945	137.0	69.5
XRgt	674540354893125248	07 46 42.40841 +21 42 27.35929			49.669	86.94	52.19	4.741		0.112	15.378	0	21.6	80.3
U39027	2039-05-08 02:00:59.53	07 46 55.93973 +21 41 53.45353	14.7	12.2	2.369	190.89	17.72	18.984		13.728	15.743	15.090	221.3	67.9
XRgt	674534238859691904	07 46 55.90761 +21 41 51.12756			32.613	86.97	52.14	17.064		0.113	15.611	0	21.6	106.5
U39028	2039-05-24 02:50:42.24	07 49 24.96912 +21 35 13.44559	61.7	36.9	1.117	190.87	24.45	19.217	-23.9	14.848	18.332	17.237	193.7	53.0
PgtRgt	674561069519930112	07 49 24.95403 +21 35 12.34894			15.564	87.38	51.57	29.416	35.7	0.085	18.549	0	21.5	41.6
U39029	2039-05-30 00:25:10.75	07 50 30.59138 +21 32 17.00427	15.7	9.4	0.692	190.90	26.61	19.293	-31.6	14.067	15.915	15.287	224.5	47.6
PgtRgt	673812924873366656	07 50 30.58200 +21 32 16.32523			9.676	87.55	51.32	33.125	39.4	0.097	16.225	0	21.4	29.7
U39030	2039-06-01 13:10:18.83	07 51 00.30255 +21 30 55.84078	11.2	7.8	0.515	10.92	27.48	19.323	-40.0	13.261	15.351	14.698	30.8	45.3
PgtRgt	673809145302137088	07 51 00.30955 +21 30 56.34635			7.216	87.63	51.20	34.538	34.1	0.148	15.696	0	21.4	62.8
U39031	2039-09-20 22:26:41.30	08 16 49.11262 +20 16 23.84470	5.9	4.3	2.430	192.20	23.45	19.158		12.854	14.077	13.658	148.4	55.5
XRgt	675604647789878016	08 16 49.07612 +20 16 21.46926			33.768	91.38	45.18	24.559			14.250	0	20.1	89.0
U39032	2039-09-22 09:52:22.39	08 17 03.80740 +20 15 34.07814	11.5	8.3	2.530	12.19	22.85	19.137		13.963	15.647	15.058	335.6	56.8
XRgt	675604441631442560	08 17 03.84538 +20 15 36.55105			35.114	91.42	45.13	22.952		0.097	15.791	0	20.1	110.0
U39033	2039-09-28 16:21:07.22	08 18 02.39846 +20 12 41.70760	13.3	9.2	2.759	192.13	20.19	19.043		14.278	15.609	15.151	232.5	62.7
XRg	675681682323846528	08 18 02.35727 +20 12 39.01001			38.108	91.55	44.90	18.871		0.076	15.619	0	20.1	161.8
U39034	2039-09-29 08:43:15.67	08 18 08.28168 +20 12 19.99680	13.7	9.2	1.071	12.12	19.89	19.033	-41.2	13.845	15.820	15.176	346.3	63.4
PgtRgt	675682953634165504	08 18 08.29766 +20 12 21.04395			14.784	91.56	44.87	26.773	30.6	0.109	15.814	0	20.1	152.6
U39035	2039-10-01 15:53:37.67	08 18 27.70420 +20 11 23.60749	9.2	5.9	1.114	192.08	18.87	18.997	-29.7	12.852	14.635	14.040	236.5	65.6
PgtRgt	663673091203548928	08 18 27.68765 +20 11 22.51855			15.343	91.60	44.80	25.346	40.6	0.163	14.572	0	20.1	122.2
U39036	2039-11-15 07:18:33.57	08 21 04.96721 +20 04 24.15236	41.5	27.8	1.640	19.16	-3.34	18.247	10.9	14.950	17.663	16.845	321.9	109.4
PgtRgt	663634677016109440	08 21 05.00540 +20 04 25.70129			21.700	91.92	44.18	4.294	-33.7	0.074	15.722	0	19.9	96.4
U39037	2039-12-17 14:08:40.42	08 18 27.84537 +20 14 09.60747	7.7	5.6	0.461	13.89	-17.16	17.801	41.0	13.176	14.746	14.218	186.9	142.7
PgtRgt	663673847117789952	08 18 27.85323 +20 14 10.05473			5.948	91.55	44.80	23.911	-46.5	0.127	14.580	0	20.1	169.3
U39038	2039-12-19 13:03:48.84	08 18 12.11583 +20 15 07.32826	8.3	5.9	2.596	193.81	-17.79	17.781		13.316	14.739	14.260	201.2	144.8
XRgt	675683331591285248	08 18 12.07180 +20 15 04.80760			33.474	91.52	44.86	18.767		0.204	14.612	0	20.1	161.1

^a A nearby event has the same 2MASS ID as this event, resulting in a corresponding K magnitude ambiguity.

* Superscript * indicates RUWE > 1.4, ** indicates RUWE > 2, and *** indicates RUWE > 5. See machine-readable file for RUWE values.

Table 7. Geocentric Uranus Occultation Predictions 2023–2050 for $K \leq 15$ (part 7 of 7)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U40001	2040-01-08 08:48:57.71	08 15 04.47259 +20 25 39.40708	4.6	4.1	3.522	193.13	-22.31	17.636		10.602	11.945	11.469	244.6	165.7
XRgt	675660168830130304	08 15 04.41568 +20 25 35.97576			45.052	91.09	45.60	14.045		0.414	12.063	0	20.3	87.0
U40002	2040-01-19 01:28:44.32	08 13 09.80177 +20 31 48.17520	20.2	14.2	1.246	192.81	-23.20	17.606	39.5	14.314	16.672	15.935	343.6	177.0
PgtRgt	675861280675522944	08 13 09.78209 +20 31 46.95973			15.917	90.82	46.05	30.299	-27.1	0.090	16.833	0	20.4	117.0
U40003	2040-01-24 09:18:24.07	08 12 11.64571 +20 34 50.81767	12.9	9.0	0.650	12.66	-23.20	17.605	37.6	14.034	15.728	15.173	220.7	177.2
PgtRgt	675849976321519616	08 12 11.65585 +20 34 51.45181			8.298	90.69	46.27	31.342	-44.6	0.075	15.889	0	20.5	51.0
U40004	2040-01-31 18:29:04.49	08 10 51.75613 +20 38 59.52408	60.6	39.7	1.541	12.44	-22.73	17.618	19.3	14.685	18.327	17.104	75.4	169.4
PgtRgt	675899209530050944	08 10 51.77977 +20 39 01.02858			19.686	90.50	46.58	28.533	-33.5		18.465	0	20.5	38.4
U40005	2040-02-04 12:15:14.99	08 10 12.12373 +20 41 01.15347	18.8	13.1	2.011	12.33	-22.29	17.630		14.338	16.430	15.757	165.0	165.5
PtRgt	675910415101233152	08 10 12.15431 +20 41 03.11764			25.708	90.41	46.74	26.118		0.074	16.548	0	20.6	86.6
U40006	2040-02-06 04:46:06.85	08 09 54.55030 +20 41 57.14035	81.4	54.9	0.158	192.28	-22.05	17.638	44.1	14.914	18.661	17.458	275.6	163.7
PgtRgt	675910994920334976	08 09 54.54791 +20 41 56.98638			2.016	90.36	46.81	29.922	-42.3		18.767	0	20.6	109.6
U40007	2040-02-14 11:34:06.52	08 08 31.58193 +20 46 09.41792	33.8	20.7	1.709	192.03	-20.46	17.685	28.3	14.548	17.474	16.559	165.1	155.0
PgtRgt	670663579973377920	08 08 31.55653 +20 46 07.74691			21.915	90.17	47.13	24.947	-13.4	0.079	17.499	0	20.7	129.6
U40008 ^d	2040-02-22 12:32:13.83	08 07 18.23195 +20 49 44.19094	128.1	118.9	0.471	11.78	-18.32	17.750	38.9	14.771	18.830		142.3	146.6
PgtRgt	670674403289459584	08 07 18.23882 +20 49 44.65233			6.068	90.00	47.42	24.472	-43.9	0.064	18.734	0	20.7	28.2
U40009 ^d	2040-02-22 12:34:46.05	08 07 18.22537 +20 49 44.80914	27.3	18.9	0.115	191.79	-18.32	17.750	43.3	14.771	17.169	16.208	141.7	146.6
PgtRgt	670674403290859904	08 07 18.22370 +20 49 44.69657			1.480	90.00	47.42	24.636	-42.1	0.064	17.074	0	20.7	28.2
U40010	2040-02-23 14:56:35.94	08 07 08.83200 +20 50 08.59539	9.0	6.6	3.455	11.75	-17.98	17.760		13.359	14.964	14.418	105.1	145.4
XRgt	670675056125891072	08 07 08.88219 +20 50 11.97776			44.501	89.97	47.45	11.731		0.107	14.848	0	20.7	15.3
U40011	2040-03-01 01:02:12.55	08 06 18.02340 +20 52 42.81634	5.6	4.1	3.860	191.53	-15.87	17.826		12.342	13.640	13.200	307.1	138.8
XRgt	670724327990726016	08 06 17.96837 +20 52 39.03413			49.904	89.85	47.65	3.299		0.171	13.389	0	20.8	65.1
U40012*	2040-03-17 14:13:50.30	08 04 40.34882 +20 57 07.99111	233.3	153.4	1.756	10.69	-9.19	18.036	10.3	14.668	18.676	17.224	92.5	121.9
PgtRgt	670904987198804352	08 04 40.37207 +20 57 09.71677			22.971	89.62	48.03	10.933	-24.4		17.832	0	20.8	66.7
U40013	2040-04-18 15:46:35.61	08 04 16.95143 +20 57 28.88153	9.2	6.6	2.759	13.89	6.46	18.546		13.297	14.558	14.115	37.6	90.1
XRgt	670905506891207680	08 04 16.99872 +20 57 31.55977			37.109	89.58	48.12	5.876		0.095	13.332	0	20.8	10.5
U40014	2040-04-21 08:04:11.56	08 04 25.54056 +20 57 04.66201	13.1	8.3	2.220	193.55	7.80	18.590		13.549	15.370	14.771	150.6	87.6
PtRgt	670904819696439424	08 04 25.50341 +20 57 02.50362			29.936	89.60	48.09	8.390		0.111	14.348	0	20.8	22.4
U40015	2040-05-07 08:25:53.37	08 05 48.52280 +20 52 35.72865	31.4	20.7	2.122	192.77	15.56	18.854		14.499	17.199	16.477	129.8	72.3
PtRgt	670702028520534400	08 05 48.48934 +20 52 33.65920			29.015	89.81	47.77	17.044		0.078	16.927	0	20.8	117.5
U40016	2040-05-10 02:18:09.15	08 06 07.99820 +20 51 30.50093	24.4	16.2	1.306	12.72	16.84	18.897	-36.0	14.622	16.813	16.163	219.1	69.8
PgtRgt	670724358054565760	08 06 08.01870 +20 51 31.77449			17.894	89.86	47.69	21.086	22.1	0.072	16.626	0	20.7	82.0
U40017	2040-05-23 05:12:56.78	08 08 01.06741 +20 45 39.52482	19.5	13.9	3.577	192.63	22.51	19.094		14.948	16.402	15.908	162.9	57.6
XRgt	670675743320768896	08 08 01.01165 +20 45 36.03486			49.528	90.13	47.25	5.119		0.054	16.531	0	20.6	79.0
U40018	2040-05-25 19:34:09.33	08 08 26.93050 +20 44 12.84884	40.4	25.6	1.680	12.63	23.54	19.130	-24.6	14.301	17.762	16.718	305.1	55.2
PgtRgt	670663369518284928	08 08 26.95669 +20 44 14.48857			23.314	90.20	47.15	28.199	8.3		17.939	0	20.6	115.5
U40019	2040-05-26 21:09:51.35	08 08 37.88250 +20 43 37.44289	5.4	3.4	2.632	12.63	23.96	19.144		11.835	13.388	12.850	280.2	54.2
XRgt	670660247078757632	08 08 37.92352 +20 43 40.01100			36.542	90.22	47.11	22.522		0.245	13.584	0	20.6	131.2
U40020	2040-05-27 07:50:02.15	08 08 42.50414 +20 43 22.68001	79.0	51.7	2.858	12.63	24.13	19.150		14.972	18.906	17.680	119.8	53.8
XRgt	670660208422349952	08 08 42.54869 +20 43 25.46875			39.694	90.23	47.09	20.237			19.110	0	20.6	137.8
U40021	2040-06-02 17:43:50.90	08 09 52.66063 +20 39 45.97616	25.7	21.2	1.129	192.65	26.50	19.233	-26.9	14.714	16.687	16.061	325.3	47.9
PgtRgt	675910793058362368	08 09 52.64301 +20 39 44.87493			15.744	90.40	46.82	34.196	39.2	0.064	16.993	0	20.5	129.6
U40022	2040-06-03 06:38:13.12	08 09 58.81741 +20 39 26.61762	33.7	25.8	1.169	192.66	26.69	19.240	-25.9	14.884	17.169	16.476	131.2	47.4
PgtRgt	675910616963192960	08 09 58.79917 +20 39 25.47732			16.308	90.42	46.79	34.316	38.5		17.482	0	20.5	122.5
U40023	2040-09-17 17:50:00.38	08 34 43.72469 +19 17 07.69622	37.1	29.1	3.529	13.77	26.22	19.201		14.955	17.548	16.755	224.5	48.7
XRgt	662761321185310208	08 34 43.78403 +19 17 11.12335			49.138	93.65	40.93	8.662		0.073	17.842	0	19.1	171.2
U40024	2040-09-27 05:12:06.65	08 36 22.58698 +19 11 28.83981	6.1	4.1	0.242	193.73	22.56	19.070	-47.8	10.257	12.118	11.496	45.0	57.6
PgtRgt	659766114072052608	08 36 22.58294 +19 11 28.60272			3.353	93.84	40.54	34.346	50.7	0.586	12.249	0	19.0	43.2

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U40025	2040-09-30 09:19:14.77	08 36 52.31997 +19 09 42.80921	7.1	4.8	2.924	13.69	21.23	19.023		11.654	13.023	12.551	340.2	60.6
XRgt	659763434012615296	08 36 52.36883 +19 09 45.65006			40.340	93.90	40.42	19.932		0.266	13.088	0	19.0	6.9
U40026	2040-10-14 03:20:58.54	08 38 40.14040 +19 03 40.88441	20.8	13.5	3.735	193.35	14.93	18.804		14.375	16.294	15.676	56.7	73.7
XRt	659705950170306688	08 38 40.07956 +19 03 37.25034			50.939	94.11	39.99	0.187		0.081	15.976	0	18.9	172.7
U40027	2040-10-18 06:10:06.90	08 39 05.06814 +19 02 13.68469	7.7	5.4	0.082	13.15	12.93	18.735	-51.0	13.036	14.098	13.707	10.5	77.7
PgtRgt	659702376757511168	08 39 05.06945 +19 02 13.76415			1.109	94.16	39.89	20.032	50.1	0.124	13.624	0	18.9	127.3
U40028	2040-11-01 06:09:18.25	08 40 03.18334 +18 59 12.26779	25.4	19.7	1.873	191.20	5.87	18.496	-3.0	14.023	16.734	15.880	357.1	91.4
PgtRgt	661189947271998848	08 40 03.15770 +18 59 10.43091			25.119	94.27	39.66	8.008	13.9	0.106	15.403	0	18.8	48.7
U40029*	2040-12-18 16:16:17.61	08 37 59.67928 +19 08 37.02795	19.1	13.8	2.801	15.61	-16.17	17.777		10.700	12.811	12.119	158.1	139.9
XRgt	659756012309014656	08 37 59.73250 +19 08 39.72366			36.112	93.99	40.15	17.263		0.451	12.581	0	19.0	38.3
U41001**	2041-01-07 23:09:33.34	08 35 00.88794 +19 20 08.53039	14.9	11.5	1.001	194.86	-21.63	17.603	46.9	12.211	13.919	13.345	34.0	161.2
PgtRgt	662763142251433472	08 35 00.86980 +19 20 07.56247			12.785	93.63	40.87	31.646	-35.8	0.196	14.004	0	19.2	127.2
U41002	2041-01-29 16:24:31.58	08 31 11.31204 +19 34 06.32171	33.6	24.2	1.999	14.20	-23.14	17.552	-4.6	14.072	17.626	16.479	112.9	175.7
PgtRgt	662925835613168000	08 31 11.34673 +19 34 08.26003			25.452	93.15	41.78	29.759	-12.3	0.126	17.784	0	19.4	148.1
U41003	2041-02-04 19:35:18.70	08 30 05.80994 +19 38 00.86968	52.9	34.1	0.128	14.01	-22.69	17.564	47.2	14.919	18.206	17.117	58.9	169.2
PgtRgt	662940812162384000	08 30 05.81214 +19 38 00.99431			1.636	93.01	42.04	33.527	-48.8	0.074	18.343	0	19.5	119.1
U41004	2041-02-14 21:25:56.95	08 28 22.56221 +19 44 00.09901	38.2	25.8	0.963	13.72	-21.15	17.609	35.7	14.390	17.629	16.597	20.9	158.6
PgtRgt	662998467803954304	08 28 22.57838 +19 44 01.03420			12.294	92.80	42.45	30.107	-45.8		17.690	0	19.6	9.3
U41005	2041-02-14 21:48:53.68	08 28 22.35497 +19 43 57.72488	12.8	8.7	3.963	13.72	-21.15	17.609		13.408	15.680	14.952	15.2	158.6
XRgt	662998472099870720	08 28 22.42152 +19 44 01.57477			50.612	92.79	42.45	0.177		0.127	15.740	0	19.6	9.5
U41006	2041-03-02 01:54:28.83	08 26 06.22626 +19 51 40.93577	5.2	3.9	1.603	13.23	-17.16	17.731	19.1	11.179	13.314	12.638	298.2	142.8
PgtRgt	663745689032977792	08 26 06.25226 +19 51 42.49574			20.608	92.51	42.99	22.816	-33.3	0.370	13.148	0	19.7	150.6
U41007	2041-03-10 22:56:34.04	08 25 02.17391 +19 55 15.72873	20.9	16.5	3.289	192.88	-13.98	17.830		14.582	16.358	15.779	333.7	133.6
XRgt	66379166660265856	08 25 02.12191 +19 55 12.52227			42.534	92.37	43.24	10.886		0.066	15.969	0	19.8	29.2
U41008	2041-05-18 18:29:27.94	08 25 55.23370 +19 50 20.37114	10.1	7.4	1.056	14.38	18.48	18.901	-43.6	13.602	14.943	14.461	332.9	66.4
PgtRgt	663739852174797184	08 25 55.25229 +19 50 21.39435			14.480	92.51	43.03	25.680	31.3	0.108	14.857	0	19.7	148.3
U41009	2041-05-23 16:47:42.34	08 26 36.94807 +19 47 54.69258	9.4	6.7	3.748	194.33	20.62	18.975		12.566	14.738	14.047	353.6	61.8
XRt	663732842788246144	08 26 36.88234 +19 47 51.06135			51.579	92.61	42.87			0.204	14.771	0	19.7	141.5
U41010	2041-05-26 04:36:43.33	08 26 59.52154 +19 46 26.17373	5.2	3.9	3.204	14.31	21.67	19.011		11.528	13.031	12.518	174.0	59.5
XRgt	663728891418330240	08 26 59.57765 +19 46 29.27831			44.179	92.65	42.78	15.633		0.305	13.118	0	19.6	106.8
U41011	2041-05-30 04:45:02.99	08 27 38.29484 +19 44 11.04724	40.3	27.6	1.122	194.30	23.30	19.068	-29.9	14.171	17.556	16.461	168.1	55.8
PgtRgt	662978680890524672	08 27 38.27520 +19 44 09.95956			15.523	92.74	42.62	32.429	42.6	0.129	17.722	0	19.6	52.9
U41012	2041-10-03 06:27:14.33	08 55 33.18106 +17 59 19.32547	16.7	13.2	2.780	15.16	22.13	19.002		14.106	15.921	15.338	25.3	58.6
XRgt	612280027934141056	08 55 33.23201 +17 59 22.00844			38.309	96.01	35.91	24.650		0.085	16.031	0	17.8	149.9
U41013	2041-10-04 15:01:13.64	08 55 45.77457 +17 58 31.60853	29.2	19.9	1.884	15.14	21.55	18.982		14.999	16.938	16.360	255.5	59.9
PRgt	612279718696494080	08 55 45.80906 +17 58 33.42717			25.938	96.03	35.86	31.451		0.060	17.019	0	17.8	168.1
U41014	2041-10-18 08:20:24.01	08 57 34.29263 +17 51 40.82544	86.3	56.7	2.337	194.79	15.34	18.765		14.763	18.623	17.419	342.7	73.0
XRgt	612221478940158592	08 57 34.25084 +17 51 38.56601			31.805	96.22	35.42	20.592			18.335	0	17.7	4.7
U41015	2041-11-07 13:09:06.47	08 59 04.77548 +17 46 16.76710	37.4	28.0	3.068	191.99	5.18	18.421		14.948	17.541	16.799	250.9	92.8
XRgt	61202738077326592	08 59 04.73088 +17 46 13.76602			40.989	96.37	35.05	5.438		0.071	16.074	0	17.6	95.9
U41016	2041-12-18 19:33:29.66	08 57 32.75212 +17 54 19.60903	33.8	21.7	3.129	197.33	-14.42	17.782		13.959	17.308	16.233	113.8	134.9
XRgt	612222922049168256	08 57 32.68681 +17 54 16.62212			40.355	96.19	35.43	14.771			16.953	0	17.7	80.6
U41017	2041-12-23 07:49:21.11	08 57 01.78217 +17 56 35.01014	13.7	8.7	1.668	197.10	-16.10	17.729	35.4	13.860	15.557	14.954	285.3	139.7
PgtRgt	612235566432802816	08 57 01.74779 +17 56 33.41603			21.446	96.13	35.55	24.789	-18.4	0.090	15.321	0	17.8	139.4
U42001	2042-01-12 06:06:43.58	08 54 09.20728 +18 08 50.08621	8.2	6.0	1.035	16.35	-21.49	17.556	38.3	13.161	14.470	14.022	290.6	160.7
PgtRgt	611925985189817856	08 54 09.22772 +18 08 51.07922			13.177	95.81	36.25	34.707	-50.2	0.116	14.548	0	18.0	46.7
U42002	2042-01-21 20:56:12.47	08 52 31.42248 +18 15 40.07154	7.9	6.3	3.924	196.06	-22.81	17.514		13.032	14.621	14.070	58.3	170.9
XRgt	659975090000701824	08 52 31.34629 +18 15 36.30080			49.841	95.63	36.65	6.976		0.126	14.764	0	18.1	170.0
U42003	2042-01-22 13:18:00.70	08 52 24.24780 +18 16 07.96752	6.6	4.9	2.485	196.04	-22.87	17.512		12.871	14.041	13.631	172.1	171.6
XRgt	659978079297940608	08 52 24.19960 +18 16 05.57926			31.561	95.62	36.68	29.701		0.129	14.186	1	18.1	175.6

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U42004	2042-02-12 06:35:40.80	08 48 45.27801	+18 30 45.39975	12.2	9.3	2.125	195.42	-22.36	17.522		13.660	15.583	14.976	251.4	166.5
PtRgt	660208323904541312	08 48 45.23829	+18 30 43.35158			27.001	95.21	37.56	30.697		0.099	15.704	0	18.4	92.0
U42005	2042-02-20 15:13:06.79	08 47 21.62420	+18 36 10.00634	15.9	12.0	1.367	195.17	-20.97	17.564	42.7	14.436	15.848	15.347	113.4	157.7
PgtRgt	660270824268555392	08 47 21.59904	+18 36 08.68704			17.413	95.05	37.90	31.778	-29.3	0.063	15.899	0	18.4	153.1
U42006	2042-03-24 14:49:49.41	08 43 22.87479	+18 50 55.14818	58.4	43.2	1.161	13.82	-10.38	17.892	34.3	14.743	18.361	17.135	86.8	124.7
PgtRgt	660961764247728000	08 43 22.89433	+18 50 56.27567			15.067	94.60	38.86	15.690	-45.1	0.083	17.649	0	18.7	84.2
U42007	2042-04-30 09:14:06.06	08 42 52.83346	+18 51 48.47152	5.9	3.9	3.825	197.24	7.36	18.472		11.783	13.250	12.726	134.3	88.5
XRt	660986400180144000	08 42 52.75360	+18 51 44.81843			51.243	94.55	38.98			0.253	12.165	1	18.7	38.0
U42008	2042-05-12 07:06:19.06	08 43 45.81771	+18 48 03.73625	35.6	28.6	3.658	196.29	13.17	18.669		14.879	17.577	16.748	154.7	77.2
XRgt	660957984676505600	08 43 45.74545	+18 48 00.22463			49.536	94.66	38.77	3.146		0.071	17.123	0	18.6	172.4
U42009	2042-05-30 13:01:36.48	08 46 01.57916	+18 38 48.21518	102.7	84.8	2.296	195.91	21.39	18.952		14.888	18.658	17.539	48.5	60.2
XRgt	660192651568179968	08 46 01.53488	+18 38 46.00671			31.565	94.93	38.22	26.840			18.731	0	18.5	71.0
U42010	2042-06-04 05:14:38.72	08 46 45.85279	+18 35 44.70764	23.2	17.4	1.899	15.88	23.28	19.018		13.936	16.541	15.713	160.8	55.9
PtRgt	660180625659733888	08 46 45.88932	+18 35 46.53387			26.189	95.02	38.04	32.056		0.115	16.706	0	18.4	128.2
U42011	2042-06-14 16:56:23.62	08 48 37.71450	+18 28 14.71939	17.2	13.2	0.162	195.86	27.16	19.154	-51.0	14.552	15.920	15.410	335.5	46.4
PgtRgt	660207705429254912	08 48 37.71139	+18 28 14.56379			2.247	95.23	37.59	44.015	53.3	0.065	16.253	0	18.3	87.6
U42012**	2042-09-28 03:07:10.72	09 12 39.78822	+16 47 53.76452	19.2	15.4	2.887	16.58	26.16	19.096		12.426	15.353	14.384	84.9	49.0
XRgt	631983860418730624	09 12 39.84556	+16 47 56.53107			39.978	97.75	31.71	30.591		0.255	15.645	0	16.6	149.4
U42013	2042-10-07 14:52:49.83	09 14 16.42577	+16 41 07.55434	9.1	7.6	2.975	196.50	22.46	18.964		12.153	13.617	13.111	259.5	58.0
XRgt	631926514015495424	09 14 16.36696	+16 41 04.70156			40.923	97.91	31.31	25.678		0.214	13.743	0	16.5	14.5
U42014	2042-10-13 16:29:14.63	09 15 10.31514	+16 37 15.98955	40.3	35.3	0.228	196.40	19.83	18.873	-56.8	14.429	17.343	16.426	229.7	63.7
PgRg	631922764508772480	09 15 10.31065	+16 37 15.77038			3.127	97.99	31.09	38.041	60.0	0.093	17.334	0	16.4	59.4
U42015	2042-10-20 20:35:42.74	09 16 05.41395	+16 33 21.99303	26.8	20.1	1.949	16.19	16.52	18.758		14.893	16.612	16.035	161.2	70.6
PtRgt	631754229992083584	09 16 05.45175	+16 33 23.86448			26.513	98.08	30.86	27.328		0.060	16.405	0	16.4	145.3
U42016	2042-11-12 23:43:38.96	09 17 52.89876	+16 26 18.02215	48.1	35.3	2.083	193.00	4.94	18.366		14.592	17.505	16.747	91.9	93.3
PtRgt	631695887156285056	09 17 52.86618	+16 26 15.99222			27.750	98.24	30.42	8.201		0.087	15.986	0	16.3	94.8
U42017	2042-12-22 20:15:50.78	09 16 26.63359	+16 34 26.56118	16.6	12.7	2.653	18.75	-14.08	17.747		14.347	15.729	15.237	104.2	134.1
XRgt	631753787611006080	09 16 26.69294	+16 34 29.07372			34.153	98.08	30.78	19.973		0.068	15.348	0	16.4	98.6
U43001	2043-01-02 21:44:14.73	09 15 07.63995	+16 40 50.66123	29.8	25.1	2.242	198.22	-17.95	17.623		14.622	16.998	16.246	70.9	145.7
PtRgt	631924070178833664	09 15 07.59118	+16 40 48.53200			28.651	97.95	31.11	28.219		0.079	16.881	0	16.5	51.9
U43002	2043-01-07 21:31:57.41	09 14 25.84149	+16 44 05.95077	24.9	20.6	1.105	198.03	-19.40	17.577	52.9	13.250	16.351	15.360	68.9	150.9
PgtRgt	631939910017841536	09 14 25.81769	+16 44 04.90001			14.087	97.88	31.28	35.461	-39.4	0.099	17.333	0	16.6	111.4
U43003	2043-01-26 03:47:43.35	09 11 30.11067	+16 57 31.48281	13.8	8.8	0.725	197.44	-22.70	17.470	57.4	13.428	15.406	14.754	316.2	170.2
PgtRgt	632004991657838848	09 11 30.09554	+16 57 30.79123			9.185	97.59	32.01	41.689	-47.9	0.121	15.544	0	16.8	3.5
U43004	2043-02-24 21:49:17.92	09 06 24.04717	+17 19 56.68958	33.5	28.7	4.147	196.56	-21.04	17.514		14.260	17.278	16.310	15.2	158.3
XRt	611239134019360896	09 06 23.96464	+17 19 52.71439			52.679	97.08	33.26	17.514		0.099	17.333	0	17.2	33.2
U43005	2043-02-27 07:47:36.97	09 06 01.11424	+17 21 30.59090	6.2	5.2	0.805	196.48	-20.54	17.529	55.3	11.803	13.663	13.050	223.1	155.8
PgtRgt	611251537884918016	09 06 01.09829	+17 21 29.81913			10.232	97.04	33.36	36.237	-45.7	0.246	13.692	0	17.2	62.8
U43006	2043-02-27 23:18:43.49	09 05 55.12265	+17 21 57.61386	6.9	4.8	2.395	196.46	-20.39	17.534		12.554	13.757	13.323	349.7	155.1
PRgt	611251567949413632	09 05 55.07524	+17 21 55.31706			30.456	97.03	33.38	29.289		0.150	13.778	0	17.2	70.6
U43007	2043-03-13 04:22:07.04	09 04 03.06812	+17 29 43.11884	63.6	63.9	0.411	196.02	-16.68	17.648	57.3	14.841	18.102	17.067	260.4	141.4
PgtRgt	611301080332027264	09 04 03.06020	+17 29 42.72404			5.257	96.84	33.84	29.536	-52.1	0.078	17.905	0	17.3	116.8
U43008	2043-04-01 09:05:58.84	09 02 09.57858	+17 37 15.18875	8.1	6.3	0.255	14.87	-9.15	17.885	53.9	12.913	14.373	13.872	170.0	121.9
PgtRgt	611977387358100352	09 02 09.58316	+17 37 15.43527			3.309	96.65	34.30	16.109	-56.9	0.135	13.524	0	17.5	132.0
U43009***	2043-05-06 20:38:52.98	09 01 56.87758	+17 37 02.46720	25.5	20.4	3.943	198.63	8.07	18.451		13.766	15.657	15.049	321.8	87.2
XRt	611976047328305408	09 01 56.78948	+17 36 58.73045			52.770	96.64	34.35	18.451		0.103	14.672	0	17.4	119.4
U43010	2043-10-03 00:45:23.27	09 31 17.24835	+15 23 15.98215	11.3	11.2	1.751	197.81	26.26	19.055	-9.6	12.373	14.457	13.805	120.4	48.9
PgRg	618977187618234112	09 31 17.21131	+15 23 14.31460			24.206	99.45	27.08	50.374	24.8		14.753	0	15.2	47.8
U43011	2043-10-03 20:41:19.56	09 31 26.09684	+15 22 30.96734	38.9	39.7	1.968	17.81	25.96	19.044		13.647	17.000	15.929	180.7	49.7
PRgt	618977221977971072	09 31 26.13845	+15 22 32.84134			27.186	99.47	27.04	47.848			17.283	0	15.2	58.0

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A ($''$)	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U43012	2043-11-08 17:55:36.98	09 35 59.09189 +15 01 46.33998	8.2	6.5	1.923	16.40	9.68	18.482		12.865	14.173	13.698	187.9	84.2
PtRgt	618727014362838784	09 35 59.12936 +15 01 48.18444			25.772	99.84	25.90	19.059		0.144	13.385	0	14.8	159.5
U43013	2043-11-29 22:29:22.99	09 36 38.27064 +14 59 34.66623	10.8	11.0	0.793	216.49	-1.30	18.120	65.2	12.683	14.357	13.794	98.7	105.4
PgtRgt	617976357158831744	09 36 38.23811 +14 59 34.02884			10.419	99.89	25.74	2.865	-35.4	0.166	11.392	0	14.8	87.3
U43014	2043-12-02 10:11:23.97	09 36 36.40808 +14 59 50.91957	6.8	7.1	0.998	207.71	-2.54	18.079	62.4	10.500	12.670	11.985	280.7	108.0
PgtRgt	617976559021588608	09 36 36.37606 +14 59 50.03401			13.083	99.88	25.75	5.511	-37.7	0.530	10.428	0	14.8	116.8
U44001*	2044-01-06 16:51:33.19	09 33 54.11947 +15 14 29.11231	9.3	7.0	1.565	19.50	-17.60	17.593	26.5	9.838	11.732	11.121	145.2	144.5
PgtRgt	618790957835883648	09 33 54.15557 +15 14 30.58589			19.971	99.64	26.43	35.903	-43.3		11.593	0	15.0	143.5
U44002	2044-02-10 17:17:19.27	09 28 20.80056 +15 41 54.90017	36.0	27.7	2.830	18.37	-23.09	17.413		13.678	17.228	16.087	102.9	178.3
XRgt	619056970930668416	09 28 20.86232 +15 41 57.58624			35.743	99.16	27.83	34.959		0.158	17.384	0	15.5	33.1
U44003	2044-02-18 23:23:44.08	09 26 55.67252 +15 48 39.79921	32.4	23.1	3.078	18.13	-22.64	17.425		13.778	16.864	15.891	2.8	169.7
XRgt	630707258699340800	09 26 55.73888 +15 48 42.72476			38.904	99.03	28.18	30.387		0.133	16.999	0	15.6	79.7
U44004	2044-03-13 17:29:08.51	09 23 15.63200 +16 05 45.55969	23.6	17.8	4.196	197.38	-17.72	17.573		13.930	16.227	15.494	67.1	145.0
XRt	630942451108371712	09 23 15.54504 +16 05 41.55522			53.480	98.70	29.10	98.70		0.138	16.096	0	15.9	33.9
U44005	2044-03-15 13:42:01.39	09 23 01.07740 +16 06 44.07381	19.6	17.4	2.490	17.31	-17.15	17.591		14.510	15.923	15.429	122.0	143.1
XRgt	630943069583664640	09 23 01.12882 +16 06 46.45083			31.766	98.68	29.16	27.294		0.065	15.756	0	15.9	58.2
U44006	2044-03-22 08:18:41.88	09 22 12.51840 +16 10 24.03335	6.1	5.0	0.967	197.03	-14.83	17.664	55.8	11.197	13.373	12.704	196.0	136.1
PgtRgt	630957844271171328	09 22 12.49874 +16 10 23.10900			12.385	98.60	29.36	29.122	-45.0	0.367	13.048	0	16.0	140.7
U44007*	2044-04-11 02:09:41.86	09 20 37.07038 +16 17 10.93425	102.1	74.2	1.816	195.18	-6.52	17.928	25.9	13.337	16.434	15.391	268.4	116.2
PgtRgt	631016599423739776	09 20 37.03735 +16 17 09.18160			23.614	98.46	29.75	11.592	-14.2	0.160	15.217	0	16.1	48.3
U44008	2044-05-07 19:06:10.83	09 20 34.69023 +16 16 20.60703	59.7	49.0	0.990	20.63	6.55	18.359	-56.4	14.779	17.729	16.799	347.9	90.2
PgtRgt	631015087596048896	09 20 34.71446 +16 16 21.68739			13.184	98.47	29.76	12.546	40.5	0.083	16.517	0	16.1	41.2
U44009	2044-06-05 07:30:28.75	09 23 15.07787 +16 03 01.00967	49.2	29.2	3.173	198.76	19.97	18.819		14.052	16.974	16.033	134.4	63.5
XRgt	630941587819615872	09 23 15.00707 +16 02 58.00495			43.312	98.72	29.09	20.639		0.117	16.972	0	15.9	57.0
U44010	2044-06-20 01:32:54.37	09 25 35.11096 +15 51 36.55370	10.4	11.1	1.308	198.62	25.82	19.023	-31.7	7.811	10.233	9.500	209.8	50.0
PgRg	630753674410483328	09 25 35.08204 +15 51 35.31335			18.043	98.94	28.51	50.034	47.0	2.021	10.510	0	15.7	123.3
U44011	2044-11-15 01:07:37.87	09 54 31.96343 +13 28 53.21899	69.6	60.6	2.883	17.12	8.53	18.406		14.953	18.211	17.124	77.5	86.5
XRgt	615092436943230720	09 54 32.02160 +13 28 55.97383			38.480	101.29	21.20	15.334		0.177	17.286	0	13.3	32.3
U45001	2045-01-15 13:42:57.13	09 51 40.61775 +13 46 25.47575	9.9	8.0	3.520	20.40	-19.03	17.511		13.624	14.880	14.440	187.3	149.8
XRgt	615909000420713856	09 51 40.70195 +13 46 28.77475			44.700	101.06	21.93	23.869		0.094	14.826	0	13.6	121.4
U45002	2045-01-16 09:16:39.00	09 51 33.94602 +13 47 08.77131	7.0	5.1	3.211	200.37	-19.26	17.503		11.641	13.660	13.014	253.1	150.7
XRgt	615920785810976512	09 51 33.86931 +13 47 05.76150			40.757	101.05	21.96	30.559		0.280	13.619	0	13.6	131.1
U45003	2045-01-19 18:28:00.19	09 51 04.66696 +13 49 44.09588	11.0	9.1	0.843	200.25	-20.12	17.476	64.2	12.646	14.374	13.787	111.8	154.2
PgtX	615924668461420160	09 51 04.64692 +13 49 43.30486			10.687	101.01	22.09		-51.5	0.164	14.381	0	13.6	171.3
U45004	2045-01-21 07:33:07.33	09 50 50.86202 +13 50 57.12598	11.4	9.1	0.145	20.20	-20.48	17.464	65.3	13.558	14.897	14.428	273.9	155.9
PgtX	615925561814620800	09 50 50.86545 +13 50 57.26180			1.833	101.00	22.15		-68.2	0.097	14.922	0	13.6	170.2
U45005	2045-02-09 04:49:09.55	09 47 47.00404 +14 07 02.88180	14.3	19.5	3.089	19.63	-23.00	17.381		12.654	14.385	13.794	295.6	175.8
XRgt	616157043371826688	09 47 47.07538 +14 07 05.79077			38.934	100.76	22.93	37.058		0.163	14.537	0	13.9	90.6
U45006	2045-03-23 02:23:17.24	09 41 16.29018 +14 39 45.71477	11.1	9.8	1.674	18.33	-16.28	17.582	23.8	11.442	12.982	12.459	289.1	140.5
PgtRgt	617797613504563584	09 41 16.32647 +14 39 47.30110			21.340	100.25	24.58	35.300	-38.2	0.290	12.759	0	14.5	87.9
U45007	2045-05-08 20:18:11.20	09 39 01.30820 +14 49 28.15061	10.8	7.6	3.868	203.29	4.54	18.257		12.633	14.647	13.999	333.7	94.1
XRt	618000065378086144	09 39 01.20274 +14 49 24.59769			51.219	100.07	25.14			0.187	13.036	0	14.6	172.9
U45008	2045-10-15 18:46:33.46	10 08 38.03044 +12 12 44.44679	64.0	49.4	1.755	199.84	24.93	18.937	-11.8	14.607	18.167	17.006	206.4	52.4
PgtRgt	3880798445686135552	10 08 37.98981 +12 12 42.79644			24.097	102.26	17.57	72.237	26.7	0.096	18.407	0	12.0	119.8
U45009*	2045-10-31 16:30:28.63	10 10 57.56421 +12 00 26.18127	18.8	19.0	2.940	19.52	18.12	18.699		11.465	13.971	13.050	225.3	67.6
XRgt	3880750415067933184	10 10 57.63116 +12 00 28.95281			39.879	102.41	16.97	38.403		0.346	13.863	0	11.8	40.6
U45010	2045-11-09 07:19:10.43	10 11 54.59532 +11 55 37.53277	54.6	52.1	1.980	199.12	13.97	18.558		14.002	17.241	16.214	354.9	76.0
PtRgt	3880737869467881088	10 11 54.55113 +11 55 35.66221			26.647	102.47	16.73	41.160		0.132	16.851	0	11.7	81.2
U45011	2045-12-11 16:00:55.08	10 13 12.41632 +11 49 51.15258	62.3	52.4	2.744	29.42	-2.68	18.007		14.857	17.714	16.790	192.9	108.4
XRgt	3880547757035438976	10 13 12.50814 +11 49 53.54298			35.840	102.54	16.40	6.299		0.074	15.530	0	11.6	145.3

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U46001	2046-01-31 02:54:21.85	10 08 22.54341 +12 18 25.82571	74.1	49.6	4.067	21.01	-21.41	17.403		14.509	18.357	17.338	338.6	161.0
XRt	3881552023473783424	10 08 22.64289 +12 18 29.62218			51.331	102.22	17.66	0.158			18.431	0	12.1	94.9
U46002	2046-01-31 07:47:32.38	10 08 20.63914 +12 18 36.47640	93.5	72.9	4.127	21.00	-21.45	17.402		14.017	18.722	17.462	265.1	161.2
XRt	3881552092187346816	10 08 20.74007 +12 18 40.32944			52.091	102.22	17.66				18.798	0	12.1	97.6
U46003	2046-02-04 17:14:05.69	10 07 38.92701 +12 22 36.17996	7.6	6.4	1.320	200.88	-22.14	17.380	55.1	12.415	13.820	13.333	118.9	165.9
PgtX	3881566866875100416	10 07 38.89490 +12 22 34.94627			16.643	102.18	17.84		-39.6	0.165	13.931	0	12.1	152.2
U46004	2046-02-13 13:41:54.49	10 06 11.32796 +12 30 45.00242	12.4	10.4	3.891	200.62	-22.93	17.353		12.148	14.875	14.019	162.9	175.2
XRgt	3881617032093419008	10 06 11.23438 +12 30 41.36107			48.966	102.08	18.22	19.134		0.249	15.023	0	12.3	101.3
U46005*	2046-03-08 16:57:06.47	10 02 21.67031 +12 51 28.41914	35.3	28.1	3.387	199.99	-21.35	17.397		13.082	15.836	14.888	90.3	160.5
XRgt	3881514949310540416	10 02 21.59114 +12 51 25.23584			42.738	101.82	19.21	34.149		0.163	15.906	0	12.6	149.9
U46006	2046-03-12 00:30:15.88	10 01 51.00960 +12 54 11.56065	105.3	74.8	3.873	199.89	-20.70	17.416		14.816	18.380	17.158	333.7	157.0
XRgt	3881513300043120512	10 01 50.91950 +12 54 07.91819			48.926	101.78	19.34	17.906			18.417	0	12.7	110.1
U46007	2046-03-19 11:20:01.38	10 00 46.02760 +12 59 51.43313	10.4	8.7	2.410	199.65	-18.88	17.471		14.279	17.207	15.974	163.6	149.3
XRgt	3881528869299816832	10 00 45.97217 +12 59 49.16375			30.533	101.71	19.61	44.462		0.088	17.145	0	12.8	10.6
U46008	2046-04-06 03:26:00.27	09 58 41.23282 +13 10 26.28794	11.5	9.5	1.891	18.88	-12.95	17.657	11.1	13.452	14.550	14.157	264.2	131.3
PgtRgt	614961977311435904	09 58 41.27471 +13 10 28.07752			24.220	101.57	20.15	32.814	-25.2	0.097	14.079	0	13.0	135.0
U46009	2046-04-14 08:44:07.49	09 58 00.89721 +13 13 49.82607	84.5	62.4	3.296	198.20	-9.53	17.766		14.918	18.419	17.282	176.4	123.1
XRgt	614966096185125632	09 58 00.82673 +13 13 46.69532			42.464	101.52	20.32	14.783			17.614	0	13.0	30.2
U46010	2046-04-19 04:38:18.73	09 57 43.05966 +13 15 13.47493	16.3	12.3	2.825	197.52	-7.39	17.835		14.142	15.648	15.132	233.0	118.3
XRgt	614967131272164864	09 57 43.00139 +13 15 10.78099			36.543	101.50	20.39	14.810		0.077	14.566	0	13.0	40.0
U46011	2046-05-24 22:33:59.18	09 57 58.34206 +13 12 18.26817	15.6	11.6	3.114	22.07	9.97	18.413		13.269	15.329	14.669	288.9	83.7
XRgt	614965958745950848	09 57 58.42219 +13 12 21.15423			41.589	101.53	20.32	15.779		0.134	14.573	0	13.0	155.4
U46012	2046-06-11 14:33:36.89	09 59 40.76132 +13 02 31.35310	43.2	42.2	1.800	21.15	18.26	18.698	-26.0	14.193	17.173	16.247	32.0	67.3
PgtRgt	614899403932861696	09 59 40.80575 +13 02 33.03169			24.406	101.65	19.88	46.529	7.6	0.110	17.075	0	12.8	22.7
U46013	2046-06-15 04:27:02.78	10 00 08.38763 +12 59 53.17097	10.2	10.5	4.034	21.06	19.82	18.752		8.787	10.421	9.867	180.2	64.0
XRt	614895181980039936	10 00 08.48683 +12 59 56.93482			54.869	101.68	19.76			1.117	10.411	0	12.8	73.0
U46014	2046-07-04 15:32:22.91	10 03 14.52579 +12 42 39.83021	12.9	9.1	2.297	200.83	27.37	19.017		11.137	14.226	13.239	355.5	46.2
XRgt	3881462039608451072	10 03 14.46997 +12 42 37.68314			31.683	101.90	18.97	64.971		0.485	14.566	0	12.5	38.7
U46015*	2046-10-19 21:51:21.76	10 26 33.90803 +10 32 20.39981	351.8	246.7	0.025	200.70	25.34	18.924	-75.4	12.313	15.027	14.153	160.9	51.5
PgtX	3882408684760792448	10 26 33.90744 +10 32 20.37654			0.341	103.33	12.92		76.1	0.237	15.283	0	10.3	73.4
U46016	2046-10-25 16:24:00.42	10 27 29.75001 +10 27 07.23997	39.4	33.8	2.475	20.61	23.03	18.843		14.903	17.059	16.350	237.2	57.0
XRg	3882397616629159680	10 27 29.80906 +10 27 09.55627			33.820	103.38	12.68	77.335		0.065	17.212	0	10.2	5.5
U46017	2046-11-15 03:13:42.43	10 30 02.44370 +10 13 15.44979	35.5	30.4	1.054	199.88	13.59	18.520	-49.8	13.599	16.475	15.550	55.3	76.8
PgtX	3882208470565017728	10 30 02.41943 +10 13 14.45902			14.151	103.51	12.01		61.5	0.136	16.055	0	10.0	87.0
U46018	2046-12-24 05:06:45.74	10 31 01.49838 +10 09 21.13086	31.6	26.0	0.083	205.05	-6.36	17.862	75.8	13.763	16.936	15.890	348.8	116.2
PgtX	3882158167908095104	10 31 01.49602 +10 09 21.05607			1.069	103.55	11.76		-72.6		15.693	0	9.9	74.1
U47001	2047-01-04 11:05:33.81	10 30 19.57548 +10 13 56.41358	74.9	51.0	0.953	203.27	-11.49	17.697	68.7	14.792	17.963	16.930	247.8	127.9
PgtX	3882161810040368896	10 30 19.54996 +10 13 55.53768			12.238	103.51	11.95		-51.4	0.081	17.362	0	10.0	139.2
U47002	2047-01-09 02:26:01.34	10 29 55.35947 +10 16 31.82738	14.3	12.7	3.778	202.92	-13.40	17.636		12.510	15.049	14.282	13.0	132.7
XRgt	3882209707515598720	10 29 55.25976 +10 16 28.34737			48.328	103.49	12.05	19.879			14.614	0	10.0	83.1
U47003	2047-02-28 16:24:36.55	10 22 37.88890 +10 59 36.51571	54.4	55.1	1.087	201.19	-22.85	17.329	63.3	13.925	17.372	16.298	111.7	174.0
PgtX	3877244794040854016	10 22 37.86222 +10 59 35.50232			13.660	103.09	13.96		-48.9	0.122	17.517	0	10.8	130.6
U47004	2047-03-12 13:30:08.47	10 20 42.57413 +11 10 25.61682	44.1	33.6	2.302	20.87	-21.48	17.368		14.137	17.411	16.362	143.1	161.7
PRgt	3877308011664274176	10 20 42.62987 +11 10 27.76790			28.998	102.98	14.46	69.865		0.106	17.489	0	10.9	25.8
U47005	2047-04-28 00:46:52.33	10 15 45.72369 +11 37 07.10595	32.7	24.9	1.389	197.42	-5.65	17.869	48.7	14.839	16.765	16.138	286.9	114.6
PgtRt	3880562463003595648	10 15 45.69539 +11 37 05.78071			18.001	102.69	15.74		-39.9	0.058	15.392	0	11.4	83.5
U47006	2047-06-06 18:11:25.35	10 16 48.61077 +11 29 32.77106	29.8	22.2	2.894	202.68	13.68	18.518		13.713	16.233	15.436	346.9	76.6
XRgt	3877553962966359936	10 16 48.53548 +11 29 30.09651			38.874	102.76	15.47	32.610		0.119	15.821	0	11.3	85.0
U47007	2047-07-03 13:23:17.29	10 20 19.26638 +11 08 33.71115	17.2	13.3	3.256	21.78	25.15	18.917		13.578	15.346	14.746	33.4	51.9
XRgt	3877306229253036928	10 20 19.34848 +11 08 36.73519			44.679	102.97	14.55	46.927		0.104	15.595	0	10.9	76.0

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	$\sigma(\delta_*)$ (km)	C/A (")	PA (deg)	Vel (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	f_0 (km)	g_0 (km)	C/A (10^3 km)	P (deg)	B (deg)	\dot{r} (km/s)	Lat E (deg)	D_* (km)	G_*	DUP	ϕ (deg)	M-G-T
U47008	2047-10-28 13:08:55.55	10 45 05.16377 +08 43 39.13389	26.6	26.4	0.012	21.33	23.94	18.855	-80.0	13.218	16.001	15.352	287.8	55.0
PgtX	3868851328433383040	10 45 05.16407 +08 43 39.14542			0.169	104.23	8.05		79.5	0.214	16.196	0	8.5	174.4
U47009	2047-11-02 14:14:18.87	10 45 51.16894 +08 39 16.26132	37.4	28.6	2.745	201.24	21.82	18.782		14.111	16.818	15.969	266.7	59.8
XRgt	3869177230551162240	10 45 51.10189 +08 39 13.70317			37.387	104.26	7.85	108.334		0.102	16.913	0	8.4	121.3
U47010	2047-11-04 12:34:20.05	10 46 07.58054 +08 37 38.31431	13.9	10.4	0.474	21.20	20.99	18.753	-79.5	13.045	14.768	14.198	289.9	61.7
PgtX	3869174344333138048	10 46 07.59211 +08 37 38.75669			6.453	104.27	7.78		68.1	0.145	14.820	0	8.4	98.6
U47011	2047-11-19 11:36:10.76	10 47 53.21222 +08 27 41.13988	25.2	25.4	2.432	200.59	13.94	18.512		14.918	16.498	16.012	290.1	76.2
XRgt	3866154088970921216	10 47 53.15458 +08 27 38.86349			32.650	104.34	7.32	83.475		0.057	16.106	0	8.2	103.7
U47012	2047-11-23 02:27:32.14	10 48 12.35250 +08 25 52.79253	11.9	11.3	0.252	200.33	12.12	18.451	-75.3	12.971	14.440	13.939	63.8	79.8
PgtX	3866155944396821120	10 48 12.34660 +08 25 52.55629			3.371	104.36	7.23		82.9	0.141	13.896	1	8.2	154.3
U47013	2047-12-10 22:47:09.65	10 49 07.99017 +08 21 04.70987	73.5	77.6	1.236	14.22	2.93	18.144	-51.0	14.376	17.726	16.580	101.5	97.6
PgtX	3866139791024848000	10 49 08.01063 +08 21 05.90845			16.271	104.39	6.99		51.3	0.108	15.640	0	8.1	16.3
U48001	2048-02-11 12:15:24.11	10 44 12.95256 +08 53 15.45989	24.2	24.4	4.103	202.47	-21.59	17.355		14.295	15.922	15.372	196.5	162.6
XRt	3868871909916642816	10 44 12.84676 +08 53 11.66853			51.642	104.18	8.30			0.074	16.005	0	8.6	130.1
U48002	2048-03-23 02:26:14.14	10 37 44.59401 +09 31 45.04763	82.1	63.3	2.744	21.40	-20.16	17.390		14.874	18.311	17.175	302.2	155.0
XRgt	3869939531411235840	10 37 44.66167 +09 31 47.60213			34.603	103.88	10.01	84.054			18.319	0	9.3	60.2
U48003	2048-04-13 13:49:42.12	10 35 06.43365 +09 46 47.39795	21.7	16.4	0.677	20.55	-13.54	17.597	62.6	14.451	15.829	15.349	109.5	133.1
PgtX	3870146209532714368	10 35 06.44971 +09 46 48.03145			8.634	103.75	10.70		-74.0	0.066	15.406	0	9.5	128.9
U48004	2048-04-23 11:23:44.41	10 34 17.50482 +09 51 17.30212	32.4	32.9	2.769	199.74	-9.49	17.726		14.517	16.267	15.683	136.1	123.2
XRgt	3870069415517664384	10 34 17.44153 +09 51 14.69620			35.595	103.72	10.91	35.853			15.458	0	9.6	10.5
U48005 ^a	2048-10-26 01:43:20.93	11 01 48.57889 +07 01 22.07475	79.9	57.6	1.572	202.00	26.53	18.931	-26.2	13.501	17.491	16.068	105.1	48.7
PgX	3864832957030838016	11 01 48.53934 +07 01 20.61756			21.580	104.86	3.62		40.7	0.188	17.797	0	6.8	83.1
U48006 ^d	2048-10-26 01:54:08.19	11 01 48.68450 +07 01 22.62789	14.4	28.3	2.674	202.00	26.53	18.931		13.501	18.128		102.4	48.8
XRgt	3864832957030184576	11 01 48.61722 +07 01 20.14904			36.709	104.86	3.62	291.436		0.188	18.435	0	6.8	83.0
U48007	2048-11-25 10:13:17.29	11 05 50.50313 +06 37 23.10854	10.1	7.9	3.791	21.02	13.01	18.467		12.532	14.265	13.697	308.7	78.2
XRgt	3816710940855585280	11 05 50.59440 +06 37 26.64730			50.777	104.99	2.55	39.248		0.187	13.798	0	6.4	48.3
U49001	2049-01-12 09:59:29.36	11 06 06.23228 +06 38 04.38148	23.4	19.4	1.942	204.50	-11.01	17.682	23.4	14.510	16.188	15.630	264.9	126.9
PgtRgt	381671112654275200	11 06 06.17824 +06 38 02.61433			24.903	104.99	2.49	218.251	-3.7	0.068	15.540	0	6.4	125.7
U49002*	2049-01-17 22:15:30.97	11 05 38.37747 +06 41 05.19700	16.0	13.9	3.773	24.08	-13.29	17.608		10.946	13.044	12.385	75.4	132.7
XRgt	3816723894476969856	11 05 38.48078 +06 41 08.64163			48.183	104.98	2.61	83.062		0.393	12.600	0	6.4	60.2
U49003	2049-01-21 20:03:44.34	11 05 15.57712 +06 43 36.73922	43.4	39.3	3.234	23.86	-14.79	17.560		13.821	17.331	16.203	104.4	136.7
XRgt	3816725131427497472	11 05 15.66492 +06 43 39.69699			41.188	104.97	2.71	181.579		0.148	17.003	0	6.5	14.2
U49004	2049-03-09 10:54:25.81	10 58 31.17494 +07 26 18.57512	7.5	7.9	0.113	22.46	-22.76	17.300	78.7	11.749	13.362	12.810	194.1	174.3
PgtX	3865087047296027136	10 58 31.17784 +07 26 18.67928			1.414	104.74	4.51		-83.9	0.243	13.502	0	7.2	106.8
U49005	2049-03-12 01:47:17.15	10 58 05.70331 +07 28 53.11191	68.9	52.7	1.807	22.40	-22.59	17.305	20.6	14.199	17.757	16.670	328.2	171.6
PgtRt	3865094159761871104	10 58 05.74962 +07 28 54.78286			22.682	104.73	4.62		-36.2	0.115	17.889	0	7.2	75.2
U49006	2049-03-22 22:51:53.87	10 56 23.41321 +07 39 14.99571	24.2	17.5	2.593	22.13	-21.17	17.346		14.288	16.160	15.526	0.9	160.3
XRgt	3865150097415908096	10 56 23.47891 +07 39 17.39770			32.622	104.67	5.08	181.258			16.222	0	7.4	62.2
U49007	2049-06-26 02:24:55.96	10 53 49.30268 +07 51 22.89461	20.7	19.8	1.452	203.53	18.27	18.651	-31.8	14.225	15.646	15.176	213.2	67.5
PgtX	3865840144041492480	10 53 49.26367 +07 51 21.56355			19.638	104.58	5.74		49.7	0.076	15.548	0	7.6	113.1
U49008	2049-06-29 06:02:00.75	10 54 12.70932 +07 48 46.72831	25.5	25.7	3.200	23.43	19.66	18.699		13.865	15.859	15.236	155.9	64.6
XRgt	3865827667161465216	10 54 12.79497 +07 48 49.66465			43.403	104.59	5.64	100.252		0.102	15.840	0	7.5	75.0
U49009	2049-07-17 20:09:20.44	10 57 03.04105 +07 30 40.71490	11.5	9.2	2.219	23.10	26.94	18.955		13.201	14.664	14.154	286.5	47.6
PtRgt	3865097389577249920	10 57 03.09959 +07 30 42.75597			30.506	104.70	4.88	250.775			14.987	0	7.2	169.4
U49010	2049-11-10 05:32:30.49	11 21 07.95330 +05 00 04.97075	18.0	16.3	0.701	202.24	22.51	18.783	-62.3	11.761	15.491	14.280	37.9	58.5
PgtX	3813855195625011328	11 21 07.93555 +05 00 04.32221			9.545	105.38	-1.55		75.5	0.443	15.619	0	4.7	114.5

^a A nearby event has the same 2MASS ID as this event, resulting in a corresponding K magnitude ambiguity.

* Superscript * indicates RUWE > 1.4, ** indicates RUWE > 2, and *** indicates RUWE > 5. See machine-readable file for RUWE values.