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

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1. JUPITER PREDICTION TABLES

Table 1. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K $\leq$ 10 (part 1 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J230001	2023-06-14 01:11:45.72	02 15 25.69143 +12 24 11.12426	0.8	14.630	341.18	33.79	5.599	−57.8	7.721	8.837	8.419	114.1	46.7
Pg	73763215746127744	02 15 25.36933 +12 24 24.97221	0.7	59.405	−20.47	2.98		−60.9	0.473	9.406	0	12.5	2.7
J230002	2023-07-06 00:51:38.82	02 31 07.12260 +13 39 36.93068	0.6	9.769	342.49	26.45	5.326	−33.3	8.916	11.267	10.544	101.4	63.6
Pgt	74898461501797376	02 31 06.92091 +13 39 46.24731	0.6	37.741	−19.37	3.11		−37.2		11.570	0	13.8	80.4
J230003	2023-08-01 19:47:59.62	02 45 27.70841 +14 42 33.71279	0.5	8.152	164.30	15.42	4.936	29.8	9.004	11.667	10.872	154.5	85.6
Pgt	32915736003365248	02 45 27.86047 +14 42 25.86507	0.4	29.185	−18.29	3.24		24.2		11.385	0	14.8	93.6
J230004	2023-09-23 21:45:32.97	02 50 20.99020 +14 53 58.52962	0.4	8.236	340.78	−8.08	4.201	−21.7	8.762	10.987	10.295	74.0	135.6
Pgt	33251778540402688	02 50 20.80313 +14 54 06.30679	0.3	25.097	−17.91	3.42		−24.6	0.272	10.004	0	15.0	120.0
J230005	2023-09-28 11:28:16.08	02 49 05.07478 +14 47 48.19359	0.5	1.481	341.30	−9.71	4.155	−3.3	9.493	11.321	10.714	223.5	140.4
Pgt	33228894954662656	02 49 05.04204 +14 47 49.59645	0.5	4.464	−18.01	3.43		−4.9	0.175	10.536	0	14.9	52.6
J230006	2023-10-23 15:18:21.13	02 38 25.65862 +13 57 35.57062	0.5	13.800	162.24	−15.75	3.995	36.4	9.907	11.314	10.817	138.6	168.0
Pgt	26941234632001792	02 38 25.94782 +13 57 22.42804	0.5	39.991	−18.83	3.41		38.6	0.131	11.055	0	14.1	82.2
J230007	2023-10-24 00:09:30.32	02 38 15.15239 +13 56 04.38700	0.5	26.383	342.24	−15.79	3.994		9.408	10.968	10.431	5.4	168.4
P	26941131552787840	02 38 14.59961 +13 56 29.51248	0.5	76.433	−18.85	3.41			0.167	10.711	0	14.0	76.9
J230008	2023-11-07 11:09:12.70	02 30 36.30475 +13 21 07.99232	0.5	5.819	162.43	−16.27	3.987	13.4	9.568	12.286	11.494	184.3	174.9
Pgt	74512734783931264	02 30 36.42514 +13 21 02.44482	0.4	16.828	−19.41	3.36		17.5	0.200	12.062	0	13.5	117.8
J230009	2023-12-27 01:59:08.83	02 13 34.93531 +12 08 00.49303	0.5	9.988	0.73	−1.98	4.411	−52.3	9.945	12.461	11.692	268.6	120.6
Pgt	73387560726580224	02 13 34.94401 +12 08 10.48035	0.4	31.957	−20.59	3.08		−6.9		9.949	0	12.2	60.4
J240001	2024-03-14 05:50:23.98	02 44 50.32806 +15 01 44.08431	0.7	8.408	161.66	32.56	5.587	31.7	7.264	10.808	9.801	141.6	49.6
Pgt	33121761290365312	02 44 50.51063 +15 01 36.10327	0.6	34.070	−18.33	2.89		31.7	0.941	11.337	0	15.1	5.3
J240002	2024-07-26 21:45:47.07	04 47 13.12725 +21 41 13.55575	0.6	4.705	172.87	31.60	5.612	17.4	9.253	12.490	11.565	160.6	50.9
Pgt	3412721880292086016	04 47 13.16915 +21 41 08.88741	0.4	19.151	−6.93	2.90		17.8	0.380	12.987	0	21.7	55.0
J240003	2024-07-28 00:32:48.69	04 48 06.20329 +21 42 44.07148	0.6	3.288	172.96	31.25	5.599	12.0	8.924	11.797	10.952	118.0	51.8
Pgt	3412720132241579648	04 48 06.23221 +21 42 40.80826	0.4	13.353	−6.84	2.90		12.5	1.056	12.282	0	21.8	39.6
J240004	2024-07-29 20:20:21.24	04 49 31.88351 +21 45 19.86642	0.7	13.107	173.10	30.66	5.577	51.2	6.838	10.389	9.397	179.7	53.2
Pgt	3412770847215323008	04 49 31.99649 +21 45 06.85401	0.5	53.021	−6.69	2.90		51.6		10.852	0	21.8	15.4
J240005	2024-08-01 03:36:20.87	04 51 18.56067 +21 47 45.92430	1.4	17.915	353.29	29.89	5.549		7.417	11.572	10.435	68.9	55.0
Pt	3412779535933155840	04 51 18.41037 +21 48 03.71675	0.9	72.104	−6.50	2.90			1.152	12.008	0	21.8	16.7
J240006	2024-08-06 12:33:07.48	04 55 18.30490 +21 54 17.97612	0.8	6.652	353.70	28.01	5.481	−24.7	8.134	11.428	10.494	290.4	59.2
Pgt	3412354437249775872	04 55 18.25245 +21 54 24.58837	0.6	26.445	−6.08	2.89		−24.2	0.650	11.793	0	21.9	82.4
J240007	2024-08-06 22:59:38.98	04 55 37.20701 +21 54 43.74799	0.6	9.831	353.73	27.86	5.475	−36.8	9.191	12.570	11.623	133.4	59.5
Pgt	3412351688470705920	04 55 37.12990 +21 54 53.52053	0.4	39.041	−6.05	2.89		−36.4		12.930	0	22.0	87.5
J240008	2024-08-08 13:56:19.40	04 56 46.75507 +21 56 43.01025	0.8	4.080	173.85	27.26	5.454	14.6	9.804	12.919	12.027	267.9	60.8
Pgt	3412363817458378112	04 56 46.78648 +21 56 38.95383	0.5	16.139	−5.93	2.89		15.1	0.307	13.256	0	22.0	106.5
J240009	2024-08-10 05:47:09.64	04 57 56.92424 +21 58 07.23524	0.9	15.689	353.98	26.65	5.432	−63.0	9.546	12.284	11.455	28.9	62.1
Pgt	3412179821059378048	04 57 56.80590 +21 58 22.83715	0.5	61.806	−5.81	2.89		−62.6	0.284	12.595	0	22.0	125.7
J240010	2024-08-23 18:30:15.62	05 06 36.13687 +22 09 47.34528	0.6	20.009	354.89	21.33	5.242		9.567	12.529	11.665	186.9	73.1
P	3415243541492165760	05 06 36.00861 +22 10 07.27469	0.4	76.073	−4.89	2.88			0.284	12.599	0	22.2	51.4
J240011	2024-08-28 18:27:48.25	05 09 22.40558 +22 13 18.96623	0.5	8.942	355.20	19.21	5.169	−31.4	9.468	12.543	11.643	183.3	77.3
Pgt	3415283330068719104	05 09 22.35164 +22 13 27.87677	0.3	33.520	−4.60	2.88		−30.9	0.298	12.500	0	22.3	17.6
J240012*	2024-08-30 11:07:36.16	05 10 15.26787 +22 14 33.72021	0.8	4.673	175.29	18.48	5.143	15.8	9.297	12.368	11.472	291.9	78.7
Pgt	3415285975768572544	05 10 15.29551 +22 14 29.06284	0.5	17.432	−4.50	2.88		16.2	0.326	12.282	0	22.3	38.4
J240013	2024-08-31 00:00:48.32	05 10 31.62500 +22 15 00.03378	0.9	12.322	175.32	18.24	5.135	43.4	8.054	11.173	10.262	98.1	79.2
Pgt	3415099887722039552	05 10 31.69743 +22 14 47.75284	0.5	45.893	−4.47	2.88		43.8	0.567	11.073	0	22.3	44.9
J240014	2024-09-08 07:06:00.04	05 14 20.89201 +22 19 05.00395	0.5	9.408	175.77	14.52	5.010	31.6	8.735	12.294	11.316	344.6	86.3
Pgt	3415437055538451200	05 14 20.94205 +22 18 55.62160	0.3	34.184	−4.07	2.88		32.0	0.462	11.946	0	22.3	142.8
J240015	2024-09-08 18:39:10.90	05 14 32.70808 +22 19 25.49550	0.7	17.791	175.79	14.30	5.003	67.0	9.281	10.503	10.073	170.9	86.8
Pgt	3415438296785992832	05 14 32.80227 +22 19 07.75291	0.4	64.549	−4.05	2.88		67.3	0.212	10.138	0	22.3	148.4

Table 1 *continued on next page*

Table 1 *(continued)*

Event ID Event type	C/A Epoch Source ID	ICRS Star Coord at Epoch Geocentric Object Position	$\sigma(\alpha_*)$ (km) $\sigma(\delta_*)$ (km)	C/A ($''$) C/A (10^3 km)	PA (deg) P (deg)	$v_{\rm sky}$ (km/s) B (deg)	Dist (au) $\dot{r}$ (km/s)	Lat I (deg) Lat E (deg)	K D_* (km)	G G_*	RP DUP	E λ (deg) ϕ (deg)	S-G-T M-G-T
J240016	2024-11-09 01:55:32.30	05 14 18.28233 +22 18 01.44701	10.6	18.575	355.91	−12.28	4.203	−55.8	9.624	12.239	11.383	1.3	147.4
Pgt	3415436716238052224	05 14 18.18693 +22 18 19.97431	6.9	56.623	−4.07	2.89		−55.8	0.213	11.710	0	22.3	124.6
J240017*	2024-11-17 20:25:36.08	05 10 15.26785 +22 14 33.72058	0.7	21.542	175.67	−14.58	4.143	67.3	9.297	12.368	11.472	74.2	157.1
Pgt	3415285975768572544	05 10 15.38500 +22 14 12.24032	0.4	64.728	−4.50	2.88		67.6	0.262	12.025	0	22.3	6.8
J240018	2024-11-19 14:04:10.75	05 09 22.40573 +22 13 18.96275	0.4	2.855	175.61	−14.95	4.134	7.6	9.468	12.543	11.643	167.6	159.1
Pgt	3415283330068719104	05 09 22.42148 +22 13 16.11599	0.3	8.560	−4.60	2.88		8.1	0.238	12.227	0	22.3	28.7
J240019	2024-11-22 01:11:37.97	05 08 04.96360 +22 11 34.00330	0.5	18.589	355.52	−15.43	4.122	−54.7	9.504	12.620	11.720	358.0	161.9
Pgt	3415201145870743424	05 08 04.85898 +22 11 52.53533	0.4	55.569	−4.73	2.88		−54.2	0.538	12.338	0	22.2	60.6
J240020*	2024-12-01 10:24:57.70	05 02 49.91188 +22 06 06.37556	5.7	9.796	175.18	−16.64	4.093	26.4	8.436	11.417	10.516	209.1	172.6
Pgt	3412232395756328192	05 02 49.97106 +22 05 56.61437	3.8	29.081	−5.29	2.87		27.4	0.361	11.217	0	22.1	172.4
J240021	2024-12-07 14:43:20.53	04 59 13.39093 +22 01 42.02082	0.4	4.887	174.97	−16.86	4.090	12.6	9.135	12.672	11.697	137.5	179.3
Pgt	3412271462778788992	04 59 13.42176 +22 01 37.15285	0.3	14.495	−5.67	2.87		14.0	0.304	12.487	0	22.1	103.4
J240022	2024-12-11 19:06:25.90	04 56 46.73754 +21 58 25.76671	0.5	9.240	354.83	−16.75	4.094	−26.2	7.527	10.289	9.469	67.0	175.4
Pgt	3412364715108144896	04 56 46.67770 +21 58 34.96878	0.3	27.435	−5.93	2.86		−24.5	0.525	10.097	1	22.0	43.9
J240023	2024-12-12 09:14:09.38	04 56 26.06291 +21 58 22.72094	0.7	13.683	174.81	−16.72	4.095	37.4	9.966	12.835	11.995	214.4	174.8
Pgt	3412376259980251904	04 56 26.15186 +21 58 09.09382	0.4	40.639	−5.96	2.86		39.0	0.177	12.640	0	22.0	35.3
J240024	2024-12-14 22:03:30.51	04 54 58.29743 +21 56 35.15772	0.4	17.782	174.73	−16.54	4.101	50.5	9.754	12.664	11.799	19.2	171.8
Pgt	3412355571121140224	04 54 58.41470 +21 56 17.45099	0.3	52.886	−6.12	2.85		52.1	0.202	12.457	0	22.0	5.8
J240025	2024-12-22 01:51:33.79	04 50 58.97498 +21 51 04.33891	0.8	0.717	354.57	−15.65	4.128	−3.2	8.080	11.606	10.618	314.1	163.6
Pgt	3412783624742018176	04 50 58.97010 +21 51 05.05285	0.5	2.147	−6.54	2.84		−0.7		11.340	0	21.9	97.1
J240026	2024-12-26 14:39:11.16	04 48 36.83736 +21 47 52.39788	0.6	3.251	354.51	−14.80	4.153	−10.4	6.260	9.568	8.635	117.1	158.5
Pgt	3412815927192085632	04 48 36.81503 +21 47 55.63382	0.4	9.792	−6.78	2.83		−7.5	1.107	9.241	0	21.8	151.1
J240027	2024-12-30 00:05:41.46	04 46 56.75040 +21 45 49.58908	0.6	7.984	174.51	−14.01	4.176	20.7	8.919	11.688	10.856	331.8	154.6
Pgt	3412735005712139264	04 46 56.80527 +21 45 41.64212	0.5	24.179	−6.96	2.82		23.9	0.306	11.301	0	21.8	164.8
J250001*	2025-01-12 14:14:58.70	04 41 28.01156 +21 38 42.74344	3.2	9.679	175.01	−9.77	4.298	25.2	9.580	11.339	10.734	104.7	139.5
Pgt	3411449126863629696	04 41 28.07198 +21 38 33.10143	2.2	30.172	−7.53	2.77		30.7	0.180	10.561	0	21.7	24.2
J250002	2025-02-16 02:41:10.16	04 38 38.89581 +21 40 35.88555	0.7	0.307	167.08	5.66	4.771	−4.8	9.672	13.094	12.130	243.4	103.8
Pgt	144833203528549760	04 38 38.90074 +21 40 35.58598	0.5	1.063	−7.82	2.65		6.8	0.268	11.723	0	21.7	115.9
J250003	2025-02-16 04:37:51.61	04 38 39.68202 +21 40 39.48860	0.8	1.372	167.12	5.70	4.772	−1.4	9.965	12.813	11.959	214.1	103.8
Pgt	144833207824900992	04 38 39.70396 +21 40 38.15120	0.5	4.748	−7.82	2.65		10.1	0.210	11.450	0	21.7	116.9
J250004	2025-02-17 17:43:58.49	04 38 56.28449 +21 41 14.98334	0.6	14.327	347.71	6.45	4.796	−52.3	9.955	11.635	11.051	16.2	102.3
Pgt	144832688132473600	04 38 56.06560 +21 41 28.98183	0.4	49.839	−7.79	2.65		−43.3	0.165	10.405	0	21.7	135.1
J250005*	2025-02-19 19:33:01.70	04 39 20.99462 +21 42 51.74445	1.0	9.116	168.37	7.45	4.829	25.5	9.836	11.653	11.041	347.0	100.3
Pgt	144831386758691328	04 39 21.12647 +21 42 42.81514	0.7	31.931	−7.74	2.64		33.8	0.189	10.581	0	21.8	159.1
J250006	2025-02-25 16:48:40.06	04 40 51.08253 +21 46 44.18531	0.7	1.089	349.57	10.31	4.924	−6.8	9.086	11.745	10.914	22.6	94.7
Pgt	3411466448467684096	04 40 51.06838 +21 46 45.25627	0.5	3.889	−7.59	2.62		−0.3	0.290	11.026	0	21.8	125.5
J250007	2025-03-03 06:01:08.16	04 42 40.92711 +21 50 55.08799	0.9	20.069	350.32	12.99	5.014		8.801	11.881	10.961	179.5	89.5
Pt	3412956557304965888	04 42 40.68468 +21 51 14.87108	0.5	72.976	−7.40	2.60			0.413	11.412	0	21.9	45.4
J250008*	2025-03-27 17:26:07.00	04 54 57.65711 +22 16 41.27256	1.2	14.827	172.57	23.87	5.400	56.4	8.981	11.735	10.894	347.2	68.0
Pgt	3412446491286706176	04 54 57.79527 +22 16 26.56975	0.8	58.072	−6.12	2.52		58.9	0.372	11.927	0	22.3	92.1
J250009	2025-04-02 18:25:15.16	04 58 54.95152 +22 23 10.29934	0.7	10.808	353.06	26.28	5.489	−41.9	9.986	12.515	11.713	327.4	63.0
Pgt	3412477415050580480	04 58 54.85742 +22 23 21.02789	0.5	43.028	−5.70	2.50		−39.4	0.228	12.812	0	22.4	6.2
J250010	2025-04-08 00:36:33.05	05 02 36.14100 +22 29 25.18186	0.6	3.238	173.51	28.23	5.564	10.7	9.353	12.156	11.314	230.4	58.7
Pgt	3418305926189992192	05 02 36.16741 +22 29 21.96424	0.4	13.068	−5.31	2.48		13.3	0.323	12.530	0	22.5	66.2
J250011	2025-04-10 03:11:41.76	05 04 08.48602 +22 31 48.71683	0.7	3.250	173.69	28.98	5.593	10.8	9.002	12.474	11.505	189.9	57.0
Pgt	3418262388104243968	05 04 08.51180 +22 31 45.48636	0.5	13.184	−5.15	2.47		13.4	0.441	12.876	0	22.6	91.5
J250012	2025-04-15 09:03:21.63	05 08 06.57183 +22 37 48.31661	0.8	11.327	174.14	30.77	5.663	43.1	9.047	11.951	11.098	97.8	52.7
Pgt	3415355416798854400	05 08 06.65533 +22 37 37.04860	0.5	46.520	−4.73	2.46		45.4		12.418	0	22.7	152.5
J250013	2025-04-15 17:52:10.64	05 08 23.84383 +22 37 50.28946	0.9	11.061	354.17	30.89	5.667	−44.3	7.083	10.171	9.276	325.3	52.5
Pgt	3415360403258287872	05 08 23.76267 +22 38 01.29280	0.5	45.463	−4.70	2.45		−42.0	0.982	10.643	0	22.7	156.7

Table 1 *continued on next page*

Table 1 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J250014	2025-09-03 01:30:36.20	07 17 29.19416 +22 12 51.45743	0.9	6.196	187.04	30.47	5.719	21.6	8.851	9.553	9.285	104.7	52.6
Pgt	3367209799780559360	07 17 29.13950 +22 12 45.30796	0.7	25.699	9.01	1.73		25.9	0.264	10.010	0	22.2	172.4
J250015*	2025-09-10 04:57:39.19	07 22 42.17890 +22 03 13.62777	1.2	17.625	7.48	28.00	5.628		9.761	10.231	10.048	47.2	58.3
Pt	866155269923632512	07 22 42.34390 +22 03 31.10300	1.0	71.949	9.54	1.68			0.162	10.596	0	22.0	88.7
J250016	2025-09-21 03:35:45.85	07 29 55.94870 +21 49 44.63272	0.8	4.400	8.03	23.82	5.479	−18.6	9.035	11.197	10.528	58.7	67.3
Pgt	865247309540101632	07 29 55.99286 +21 49 48.98944	0.7	17.484	10.26	1.62		−13.6	0.310	11.387	0	21.8	59.5
J250017	2025-09-22 10:55:40.49	07 30 43.78853 +21 48 33.23934	0.6	18.298	188.08	23.28	5.461		9.436	11.670	10.980	307.6	68.4
P	865235970826441088	07 30 43.60386 +21 48 15.12252	0.5	72.468	10.34	1.61			0.267	11.835	0	21.8	75.5
J250018	2025-09-27 14:14:59.07	07 33 41.84468 +21 42 30.80717	0.7	12.542	188.27	21.13	5.386	44.6	8.739	11.503	10.688	253.4	72.7
Pgt	865548064627627008	07 33 41.71527 +21 42 18.39531	0.6	48.993	10.63	1.59		49.3	0.385	11.563	0	21.6	135.9
J250019*	2025-09-28 09:11:10.37	07 34 07.91720 +21 41 44.96260	28.1	19.527	188.29	20.79	5.374		9.675	11.039	10.556	328.7	73.4
Pt	865547239993895936	07 34 07.71523 +21 41 25.63943	26.4	76.113	10.68	1.58			0.202	11.081	0	21.6	145.1
J250020	2025-09-28 11:49:49.48	07 34 11.17546 +21 41 04.85533	0.8	13.607	8.30	20.74	5.373	−53.8	9.700	10.954	10.510	289.0	73.5
Pgt	865359567101771392	07 34 11.31644 +21 41 18.31971	0.7	53.021	10.68	1.58		−49.2	0.198	10.993	0	21.6	146.4
J250021	2025-10-01 10:14:52.12	07 35 44.52135 +21 38 05.68979	0.9	2.148	8.38	19.47	5.329	−10.4	9.204	10.328	9.912	310.2	76.0
Pgt	865367160604662272	07 35 44.54380 +21 38 07.81473	0.7	8.301	10.84	1.57		−4.8	0.228	10.299	0	21.6	175.2
J250022	2025-10-06 21:25:40.99	07 38 24.18481 +21 32 53.96258	0.7	15.974	188.47	17.04	5.246	58.9	8.572	11.135	10.379	137.8	80.7
Pgt	865399939794984320	07 38 24.01623 +21 32 38.16307	0.6	60.781	11.10	1.54		63.8	0.414	10.962	0	21.5	102.9
J250023	2025-10-10 17:19:14.54	07 40 04.15888 +21 29 01.35998	0.6	8.145	8.50	15.30	5.188	−31.4	9.431	11.598	10.924	196.0	84.1
Pgt	673245164555696768	07 40 04.24514 +21 29 09.41572	0.5	30.648	11.26	1.52		−25.4	0.263	11.307	0	21.4	46.3
J250024	2025-10-10 22:07:14.13	07 40 09.30730 +21 29 08.03866	0.5	9.077	188.49	15.21	5.185	28.8	8.778	11.889	11.000	123.9	84.3
Pgt	673246435866013952	07 40 09.21128 +21 28 59.06151	0.5	34.132	11.27	1.52		34.7	0.438	11.592	0	21.4	43.4
J250025	2025-10-13 14:00:32.12	07 41 12.72000 +21 26 47.82082	1.0	1.093	188.48	13.98	5.144	0.4	5.132	7.526	6.792	243.2	86.7
Pgt	673253445252610816	07 41 12.70846 +21 26 46.74017	0.7	4.076	11.37	1.51		7.0	1.860	7.137	0	21.4	7.1
J250026	2025-12-06 09:52:37.33	07 42 45.07455 +21 31 13.69875	0.6	23.320	191.82	−10.56	4.405		7.620	9.912	9.206	252.5	140.4
P	673210869240306560	07 42 44.73219 +21 30 50.87336	0.5	74.511	11.52	1.37			0.485	9.219	0	21.5	19.6
J250027*	2025-12-08 04:52:01.25	07 42 07.41060 +21 32 17.66401	1.1	20.847	11.63	−11.18	4.388	−70.7	9.233	10.153	9.814	325.7	142.4
Pgt	673214580092444672	07 42 07.71191 +21 32 38.08234	0.8	66.350	11.46	1.37		−70.3	0.176	9.522	0	21.5	7.9
J250028	2025-12-21 15:35:04.08	07 36 22.51539 +21 48 18.82777	0.5	1.252	10.61	−15.05	4.286	−3.2	9.326	11.352	10.706	150.3	157.4
Pgt	865376712611247360	07 36 22.53194 +21 48 20.05795	0.4	3.891	10.90	1.37		−3.9	0.203	11.043	0	21.7	173.6
J250029	2025-12-24 12:24:48.05	07 34 55.78064 +21 51 51.85467	0.6	12.161	10.41	−15.64	4.271	−34.9	8.190	10.214	9.567	194.6	160.7
Pgt	865391865255822464	07 34 55.93856 +21 52 03.81556	0.5	37.670	10.75	1.37		−35.6	0.350	9.948	0	21.8	149.0
J260001	2026-01-27 21:49:59.28	07 15 51.45909 +22 35 15.49975	0.6	14.720	8.32	−15.44	4.286	−43.0	9.977	11.413	10.918	14.7	159.8
Pgt	3367284218676700928	07 15 51.61296 +22 35 30.06456	0.5	45.758	8.84	1.41		−44.0	0.139	11.132	0	22.5	47.5
J260002	2026-02-23 18:29:18.68	07 05 43.13980 +22 54 43.94617	0.6	18.828	7.85	−6.84	4.536	−63.1	9.096	12.141	11.158	35.8	130.3
Pgt	3368420568239975424	07 05 43.32597 +22 55 02.59744	0.5	61.946	7.80	1.43		−63.0		10.975	0	22.9	50.3
J260003	2026-02-23 19:09:50.32	07 05 42.76145 +22 54 43.00199	0.7	20.476	7.85	−6.83	4.537	−72.6	8.075	10.490	9.760	25.7	130.3
Pgt	3368420563945646336	07 05 42.96397 +22 55 03.28570	0.5	67.374	7.80	1.43		−72.5	0.436	9.323	0	22.9	49.9
J260004	2026-04-01 22:02:29.78	07 07 20.52137 +22 54 38.73599	0.7	9.653	186.04	10.43	5.085	31.2	8.901	10.980	10.325	306.3	93.7
Pgt	3368243031473718272	07 07 20.44780 +22 54 29.13637	0.6	35.603	7.97	1.39		35.2	0.308	10.273	0	22.9	84.3
J260005	2026-04-09 09:51:23.06	07 09 52.33585 +22 50 26.26447	0.5	13.011	6.43	13.94	5.206	−48.9	9.448	11.601	10.923	122.4	86.9
Pgt	3368276051182784384	07 09 52.44118 +22 50 39.19344	0.5	49.124	8.23	1.37		−45.3		11.209	0	22.8	173.1
J260006	2026-05-10 10:13:29.18	07 26 34.68124 +22 21 05.53583	0.6	18.418	188.20	26.98	5.681		8.894	11.753	10.910	90.4	60.5
P	866084591942363648	07 26 34.49196 +22 20 47.30646	0.5	75.884	9.92	1.25				12.077	0	22.3	144.2
J260007	2026-05-17 23:58:15.34	07 31 52.38591 +22 10 06.91875	0.8	14.598	188.70	29.67	5.784	60.4	6.419	9.024	8.250	238.1	54.5
Pgt	865635132204436480	07 31 52.22700 +22 09 52.48849	0.7	61.238	10.45	1.21		63.7	1.215	9.452	0	22.1	38.1
J260008	2026-05-20 19:31:26.42	07 33 56.24528 +22 05 39.08986	1.3	12.952	188.89	30.60	5.820	51.8	9.591	10.514	10.177	302.5	52.2
Pgt	865598504723245056	07 33 56.10126 +22 05 26.29338	1.3	54.676	10.66	1.20		55.2	0.197	10.976	0	22.0	4.6
J260009	2026-05-25 05:45:32.20	07 37 16.79403 +21 58 19.40785	0.6	16.994	189.20	32.00	5.876		9.672	11.970	11.266	145.5	48.8
P	865478657955367680	07 37 16.59874 +21 58 02.63274	0.5	72.417	10.98	1.17			0.237	12.480	0	21.9	62.6

Table 1 *continued on next page*

Table 1 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J260010*	2026-10-05 16:08:27.31	09 30 35.35459 +15 22 51.44524	3.3	10.035	197.53	30.51	5.865	37.2	8.328	9.844	9.338	246.6	52.0
Pgt	618983681608799744	09 30 35.14564 +15 22 41.87570	2.7	42.687	20.54	0.07		43.4	0.408	10.302	0	15.3	10.4
J260011	2026-10-06 07:42:33.38	09 31 01.48941 +15 20 37.29326	1.3	3.982	17.55	30.29	5.857	−18.9	9.572	11.666	10.999	12.5	52.6
Pgt	618971002865336192	09 31 01.57241 +15 20 41.09040	1.4	16.917	20.57	0.06		−12.1	0.267	12.117	0	15.2	1.5
J260012	2026-10-08 23:33:20.45	09 32 47.95187 +15 12 19.57456	1.4	13.216	17.61	29.37	5.823	−57.8	9.776	11.297	10.796	132.6	54.7
Pgt	618781096590989824	09 32 48.22814 +15 12 32.17081	0.9	55.817	20.69	0.04		−51.9	0.205	11.714	0	15.1	34.4
J260013	2026-10-18 07:50:11.93	09 38 39.15236 +14 45 16.24715	0.8	12.651	17.77	25.87	5.699	−53.9	9.760	10.606	10.298	0.7	62.5
Pgt	617997965138595456	09 38 39.41859 +14 45 28.29382	0.5	52.284	21.07	−0.04		−47.4	0.175	10.885	0	14.6	148.6
J270001	2027-01-19 14:29:28.28	09 48 21.94904 +14 19 05.49751	0.8	22.984	201.21	−14.62	4.437		9.713	10.892	10.467	171.3	154.4
Pt	616178071531699712	09 48 21.37698 +14 18 44.07042	0.6	73.959	21.67	−0.48			0.149	10.552	0	14.2	66.6
J270002*	2027-02-22 11:12:09.02	09 31 38.98066 +15 46 12.26555	5.6	20.375	18.85	−16.71	4.383	−66.0	4.926	7.341	6.619	183.1	166.9
Pgt	619023298387097856	09 31 39.43671 +15 46 31.54791	3.4	64.771	20.61	−0.39		−69.2	1.747	7.146	1	15.7	33.4
J270003	2027-05-09 18:50:18.30	09 21 45.74708 +16 28 05.79201	0.8	1.391	19.12	12.55	5.292	−5.8	7.363	9.542	8.862	350.9	89.1
Pgt	631014056803083904	09 21 45.77875 +16 28 07.10645	0.5	5.339	19.94	−0.22		−4.0	0.654	9.036	1	16.4	44.6
J270004	2027-11-23 23:28:18.24	11 37 55.74585 +03 35 03.79621	0.8	16.900	21.81	23.54	5.716	−82.9	9.374	10.944	10.397	120.1	67.5
Pgt	3800709129661406336	11 37 56.16519 +03 35 19.48672	0.7	70.061	25.46	−1.70		−76.5	0.243	11.121	0	3.4	16.7
J280001	2028-02-01 14:19:37.02	11 49 14.13066 +02 41 42.78280	1.2	16.772	27.15	−9.01	4.682	−57.8	9.136	11.385	10.690	191.4	135.4
Pgt	3895627735104307456	11 49 14.64149 +02 41 57.70592	0.7	56.957	25.52	−2.11		−54.7	0.279	10.519	0	2.5	158.8
J280002	2028-04-02 08:16:06.36	11 24 12.86861 +05 29 30.30705	0.7	13.437	22.41	−15.12	4.503	−38.5	9.776	10.770	10.390	216.2	156.8
Pgt	3814082352150979584	11 24 13.21177 +05 29 42.72930	0.7	43.887	25.32	−1.96		−44.5	0.142	10.466	0	5.3	72.7
J280003	2028-04-07 16:56:24.51	11 22 05.91855 +05 42 21.86033	0.6	16.183	22.04	−13.80	4.540	−48.6	9.166	10.504	10.024	80.3	151.0
Pgt	3814337919885051648	11 22 06.32536 +05 42 36.86082	0.5	53.283	25.28	−1.93		−54.9	0.201	10.101	0	5.6	7.4
J280004	2028-06-15 10:10:35.31	11 20 22.93062 +05 38 54.88382	1.1	13.305	25.14	15.06	5.452	−51.1	8.571	10.996	10.256	113.6	84.2
Pgt	3813970786080560768	11 20 23.30922 +05 39 06.92840	0.7	52.608	25.25	−1.69		−50.9	0.385	10.688	0	5.5	169.7
J280005	2028-07-27 11:12:08.68	11 41 12.14413 +03 18 05.37790	0.8	2.637	204.05	31.42	6.048	9.0	9.977	11.858	11.231	62.0	49.8
Pgt	3800628414340560128	11 41 12.07238 +03 18 02.96954	0.7	11.567	25.49	−1.79		12.2	0.212	12.348	0	3.1	24.4
J280006	2028-12-08 01:31:08.02	13 20 02.59714 −07 09 20.55139	1.3	9.013	21.05	29.52	5.960	−39.1	9.489	10.630	10.214	100.3	54.9
Pgt	3631405710741142912	13 20 02.81462 −07 09 12.13945	1.1	38.960	23.57	−2.71		−33.9	0.229	11.053	0	−7.3	50.6
J280007	2028-12-21 09:01:41.78	13 27 41.15840 −07 52 03.26818	1.4	8.670	200.39	24.28	5.772	30.9	6.437	9.665	8.724	336.4	66.4
Pgt	3630412679942456064	13 27 40.95513 −07 52 11.39479	0.6	36.294	23.22	−2.81		36.8	1.423	9.875	0	−8.0	128.6
J290001	2029-04-09 10:37:31.85	13 25 28.37631 −07 17 38.15664	1.0	6.230	21.74	−17.22	4.451	−16.7	9.996	12.110	11.456	204.4	176.6
Pgt	3631244559272698112	13 25 28.53138 −07 17 32.37013	0.4	20.111	23.33	−3.12		−20.3		11.947	0	−7.4	128.0
J290002*	2029-07-21 01:29:23.45	13 12 14.07723 −06 20 08.74707	9.9	18.582	204.44	17.03	5.512		8.810	10.720	10.098	237.0	80.9
P	3628759392411512832	13 12 13.56150 −06 20 25.66354	5.0	74.280	23.89	−2.68			0.331	10.546	0	−6.5	41.9
J290003	2029-08-24 00:09:38.65	13 29 28.51824 −08 11 24.66327	1.8	12.804	22.56	30.33	5.988	−55.1	9.280	10.968	10.406	227.8	53.0
Pgt	3630341658363260032	13 29 28.84906 −08 11 12.83848	1.0	55.611	23.13	−2.69		−54.0		11.420	0	−8.3	125.9
J290004*	2029-12-28 08:53:48.39	15 09 21.18774 −16 38 50.05652	27.9	4.777	15.28	33.08	6.045	−20.4	8.908	11.941	10.948	357.2	47.0
Pgt	6305861023959779712	15 09 21.27534 −16 38 45.44798	23.1	20.947	16.34	−3.10		−18.1		12.487	0	−16.8	43.9
J300001	2030-01-10 02:07:47.03	15 18 10.17161 −17 12 12.36157	1.0	6.623	194.43	28.62	5.881	24.9	9.197	11.862	11.070	88.4	57.8
Pgt	6259089929617854720	15 18 10.05646 −17 12 18.77528	0.8	28.245	15.58	−3.14		27.4		12.251	0	−17.3	130.8
J300002	2030-01-24 12:07:48.44	15 26 48.84639 −17 43 18.63211	1.0	13.146	13.48	22.77	5.669	−53.9	9.643	12.110	11.358	286.3	70.3
Pgt	6258388677421132032	15 26 49.06080 −17 43 05.84841	0.8	54.053	14.81	−3.19		−51.3		12.251	0	−17.8	49.4
J300003	2030-04-18 16:31:11.48	15 32 54.72221 −17 54 38.58367	1.0	6.049	194.14	−13.64	4.487	18.2	6.146	9.507	8.553	139.0	153.0
Pgt	6255381719277385216	15 32 54.61866 −17 54 44.44920	0.8	19.686	14.26	−3.37		18.0	1.287	9.091	0	−18.0	19.8
J300004*	2030-04-23 06:50:04.01	15 30 56.45603 −17 47 47.30379	1.9	6.942	14.10	−14.71	4.455	−20.3	6.802	11.191	9.927	279.3	157.9
Pgt	6255352105484666624	15 30 56.57441 −17 47 40.57118	1.6	22.429	14.44	−3.36		−21.0	1.226	10.858	0	−17.9	48.9
J300005	2030-05-03 16:05:06.92	15 25 59.75143 −17 30 15.43950	1.4	18.592	14.08	−16.37	4.404	−58.6	7.619	11.598	10.466	129.0	169.2
Pgt	6258410461495248128	15 26 00.06761 −17 29 57.40563	1.4	59.388	14.89	−3.35		−60.1	0.707	11.381	0	−17.6	176.7
J300006	2030-05-10 13:43:09.28	15 22 28.74800 −17 17 31.85713	0.7	13.503	14.11	−16.84	4.388	−39.4	9.909	12.732	11.915	156.9	176.6
Pgt	6258288179483242112	15 22 28.97780 −17 17 18.76154	0.6	42.972	15.20	−3.34		−41.6		12.545	0	−17.4	95.0

Table 1 *continued on next page*

Table 1 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J300007	2030-05-11 15:12:23.21	15 21 56.18858 −17 15 13.25485	0.8	7.215	194.11	−16.87	4.387	22.4	9.599	12.140	11.376	133.4	177.7
Pgt	6258300823866877056	15 21 56.06575 −17 15 20.25239	0.6	22.956	15.25	−3.33		19.9		11.955	0	−17.4	81.1
J300008*	2030-05-15 19:18:53.47	15 19 46.78102 −17 07 25.75801	5.3	8.141	194.13	−16.86	4.385	25.3	8.985	12.550	11.432	67.1	177.2
Pgt	6259048285615039104	15 19 46.64239 −17 07 33.65272	4.9	25.892	15.44	−3.32		22.5	0.338	12.365	0	−17.2	21.7
J300009	2030-05-29 19:08:27.79	15 12 47.72311 −16 41 58.13275	1.2	22.795	194.06	−15.54	4.418		8.720	11.187	10.447	54.2	162.2
Pt	6259263446296689408	15 12 47.33766 −16 42 20.24513	0.9	73.037	16.05	−3.27			0.313	10.913	0	−16.8	170.1
J300010*	2030-06-05 07:54:52.97	15 09 50.34630 −16 31 51.13046	1.3	5.112	13.92	−14.25	4.452	−12.5	9.075	10.969	10.340	215.4	155.3
Pgt	6307363399224161024	15 09 50.43184 −16 31 46.16864	1.1	16.507	16.30	−3.25		−17.8	0.230	10.601	0	−16.6	110.5
J300011*	2030-06-09 15:52:32.45	15 08 03.60855 −16 25 12.08552	2.4	14.792	193.76	−13.18	4.481	48.6	9.309	11.456	10.774	91.2	150.7
Pgt	6305881669865833216	15 08 03.36399 −16 25 26.45277	2.6	48.076	16.45	−3.23		43.2	0.244	11.004	0	−16.5	54.6
J300012	2030-06-13 13:46:40.79	15 06 34.63588 −16 20 30.45554	0.9	14.151	13.56	−12.09	4.512	−41.0	6.818	9.128	8.413	118.5	146.6
Pgt	6306080857565694208	15 06 34.86643 −16 20 16.69879	0.8	46.306	16.57	−3.21		−47.0	0.736	8.581	0	−16.5	4.0
J300013	2030-08-27 09:52:51.77	15 11 11.69510 −16 57 52.88046	1.7	15.557	17.21	19.73	5.519	−62.5	7.642	8.003	7.866	104.3	76.3
Pgt	6305790071100008704	15 11 12.01597 −16 57 38.02064	1.4	62.274	16.18	−2.92		−64.4	0.418	7.988	1	−17.1	95.2
J300014	2030-09-27 09:20:55.63	15 29 51.82096 −18 13 56.00899	1.4	4.878	194.91	31.65	5.939	19.8	8.953	11.371	10.631	86.5	50.7
Pgt	6255302455662991232	15 29 51.73287 −18 14 00.72257	1.1	21.011	14.53	−2.87		18.9	0.357	11.869	0	−18.3	51.3
J310001	2031-01-27 05:40:31.73	17 17 43.43099 −22 32 08.72797	1.8	3.303	4.30	33.70	5.957	−12.4	9.703	14.022	12.892	48.5	46.4
Pgt	4114884716101797632	17 17 43.44886 −22 32 05.43388	1.1	14.272	3.71	−2.71		−13.8	0.352	14.589	0	−22.6	100.1
J310002	2031-01-28 04:32:54.42	17 18 29.45671 −22 33 06.13008	1.5	13.190	4.22	33.40	5.946	−55.5	8.930	13.598	12.372	64.6	47.2
Pgt	4114697730425030016	17 18 29.52681 −22 32 52.97586	0.9	56.877	3.62	−2.71		−56.7	0.614	14.155	0	−22.6	112.5
J310003[a]	2031-01-30 03:18:35.31	17 20 02.73291 −22 34 24.21262	1.9	2.253	184.06	32.77	5.922	9.6	8.280	10.473	9.482	81.7	48.8
Pgt	4114688006618424320	17 20 02.72138 −22 34 26.46011	1.3	9.677	3.46	−2.70		8.2	0.465	11.009	0	−22.6	136.7
J310004*[a]	2031-01-30 03:19:29.43	17 20 02.76734 −22 34 23.32665	3.8	3.171	184.06	32.77	5.922	13.2	8.280	11.208	9.513	81.4	48.8
Pgt	4114688006587513856	17 20 02.75112 −22 34 26.48937	3.0	13.618	3.46	−2.70		11.8	0.465	11.744	0	−22.6	136.7
J310005	2031-01-31 04:55:27.14	17 20 53.23875 −22 35 04.26646	4.7	11.344	183.98	32.42	5.909	47.1	8.902	14.767	13.293	56.6	49.7
Pgt	4114707557311630976	17 20 53.18195 −22 35 15.58334	3.0	48.613	3.37	−2.70		45.9	0.889	15.291	0	−22.6	149.4
J310006	2031-01-31 05:29:30.80	17 20 54.32512 −22 35 10.75326	1.3	5.917	183.98	32.41	5.908	24.1	9.940	12.990	12.087	48.1	49.7
Pgt	4114707488592150400	17 20 54.29550 −22 35 16.65553	0.9	25.353	3.37	−2.70		22.7	0.246	13.514	0	−22.6	149.7
J310007	2031-02-01 11:03:03.54	17 21 52.01468 −22 36 05.01663	1.3	6.498	183.88	32.00	5.893	26.3	9.360	13.452	12.356	323.7	50.7
Pgt	4114663984800553856	17 21 51.98295 −22 36 11.50014	0.9	27.773	3.26	−2.70		25.0	0.418	13.962	0	−22.6	164.2
J310008	2031-02-01 19:25:31.63	17 22 08.16262 −22 36 38.67327	2.9	12.010	3.85	31.88	5.888	−48.9	9.474	14.853	13.464	197.8	51.0
Pgt	4114663405044682624	17 22 08.22091 −22 36 26.69068	2.0	51.289	3.24	−2.70		−50.1	0.608	15.359	0	−22.6	168.2
J310009	2031-02-02 14:59:09.73	17 22 45.98265 −22 36 58.10322	1.3	3.484	183.79	31.60	5.878	14.3	9.988	13.574	12.575	263.8	51.7
Pgt	4114652238127704960	17 22 45.96603 −22 37 01.57971	0.9	14.853	3.17	−2.70		12.9	0.259	14.071	0	−22.6	177.6
J310010	2031-02-03 11:59:10.53	17 23 26.11836 −22 37 55.17592	2.0	17.092	3.72	31.30	5.867		9.149	14.152	12.849	308.1	52.5
Pt	4114742054460545152	17 23 26.19850 −22 37 38.11990	1.3	72.724	3.10	−2.70			0.595	14.639	0	−22.7	172.0
J310011	2031-02-05 02:10:54.55	17 24 38.66649 −22 38 25.92602	1.5	16.289	183.59	30.74	5.846	77.1	7.090	9.938	9.089	93.9	53.8
Pgt	4111736951751948544	17 24 38.59277 −22 38 42.18320	1.1	69.062	2.97	−2.69		76.0	0.964	10.405	0	−22.7	153.4
J310012	2031-02-06 07:32:29.59	17 25 33.57362 −22 39 22.05852	1.5	7.313	183.50	30.31	5.829	29.3	9.052	13.515	12.350	12.5	54.8
Pgt	4111731484210559744	17 25 33.54136 −22 39 29.35817	1.1	30.920	2.87	−2.69		28.0	0.514	13.967	0	−22.7	138.8
J310013	2031-02-07 11:47:03.03	17 26 25.83847 −22 40 06.65035	3.7	6.430	183.41	29.89	5.814	25.7	8.731	14.645	13.192	307.9	55.8
Pgt	4111704206917102464	17 26 25.81082 −22 40 13.06929	2.4	27.114	2.78	−2.69		24.4	0.955	15.081	0	−22.7	124.6
J310014	2031-02-07 21:07:46.77	17 26 43.03073 −22 40 14.79154	4.9	12.408	183.38	29.75	5.808	51.2	8.127	14.623	13.085	167.4	56.1
Pgt	4111703760240481664	17 26 42.97787 −22 40 27.17752	3.3	52.269	2.74	−2.69		50.0	1.637	15.054	0	−22.7	119.8
J310015	2031-02-08 05:57:01.82	17 26 59.05855 −22 40 55.07189	1.9	14.765	3.36	29.61	5.803	−62.7	9.760	14.575	13.366	34.8	56.4
Pgt	4111700663525206784	17 26 59.12106 −22 40 40.33269	1.2	62.145	2.72	−2.69		−63.9	0.414	15.001	0	−22.7	115.3
J310016	2031-02-08 10:16:52.23	17 27 07.04694 −22 40 41.60454	2.0	5.139	183.34	29.55	5.801	20.6	8.984	14.310	12.998	329.7	56.6
Pgt	4111701904814986496	17 27 07.02530 −22 40 46.73455	1.3	21.620	2.70	−2.69		19.2	0.701	14.734	0	−22.7	113.1
J310017	2031-02-08 22:03:02.54	17 27 28.50694 −22 40 46.92661	3.3	17.047	183.30	29.37	5.794		8.103	13.825	12.428	152.8	57.0
P	4111701350717790720	17 27 28.43599 −22 41 03.94564	2.2	71.640	2.66	−2.69			1.183	14.242	0	−22.7	107.0

Table 1 *continued on next page*

Table 1 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310018	2031-02-10 07:59:25.91	17 28 29.52181 −22 42 09.11051	1.6	17.082	3.21	28.84	5.775		9.600	14.114	12.948	2.5	58.2
P	4111691528174435712	17 28 29.59083 −22 41 52.05504	1.1	71.545	2.55	−2.68			0.407	14.512	0	−22.7	89.1
J310019	2031-02-10 15:02:41.72	17 28 42.14859 −22 42 12.27017	1.9	10.512	3.18	28.74	5.771	−40.9	9.929	14.479	13.306	256.5	58.5
Pgt	4111692318448380416	17 28 42.19076 −22 42 01.77429	1.2	43.997	2.53	−2.68		−42.3	0.350	14.873	0	−22.7	85.4
J310020	2031-02-10 16:31:15.32	17 28 44.81558 −22 42 05.45272	1.7	1.659	3.18	28.71	5.770	−5.6	9.632	14.277	13.077	234.3	58.5
Pgt	4111692318448374912	17 28 44.82222 −22 42 03.79580	1.1	6.944	2.53	−2.68		−7.1	0.409	14.670	0	−22.7	84.6
J310021	2031-02-10 17:46:35.04	17 28 47.13041 −22 41 47.70703	1.8	17.832	183.17	28.69	5.769		9.729	14.332	13.137	215.4	58.6
P	4111692146649447168	17 28 47.05921 −22 42 05.51200	1.2	74.613	2.52	−2.68			0.398	14.724	0	−22.7	83.9
J310022	2031-02-10 19:47:34.36	17 28 50.59542 −22 42 21.80180	2.1	13.560	3.17	28.66	5.768	−55.3	9.698	14.695	13.416	185.1	58.6
Pgt	4111692073588380160	17 28 50.64959 −22 42 08.26215	1.4	56.728	2.52	−2.68		−56.6	0.443	15.086	0	−22.7	82.8
J310023	2031-02-11 01:06:52.60	17 29 00.09556 −22 42 19.08390	6.6	3.607	3.15	28.58	5.765	−13.1	7.864	14.800	13.209	105.1	58.8
Pgt	4111504744300079872	17 29 00.10988 −22 42 15.48277	4.3	15.079	2.50	−2.68		−14.6		15.187	0	−22.7	80.0
J310024	2031-02-11 19:22:43.96	17 29 32.38637 −22 42 45.41710	3.2	5.571	3.10	28.29	5.754	−20.7	9.562	14.998	13.654	190.5	59.5
Pgt	4117508494462640896	17 29 32.40811 −22 42 39.85389	2.1	23.251	2.44	−2.68		−22.1	0.565	15.375	0	−22.7	70.1
J310025	2031-02-12 02:04:29.85	17 29 44.12105 −22 43 04.59421	3.8	15.986	3.08	28.19	5.750	−70.4	8.626	14.664	13.185	89.8	59.7
Pgt	4117505672618269440	17 29 44.18307 −22 42 48.63129	2.5	66.670	2.42	−2.68		−71.6	1.082	15.036	0	−22.7	66.4
J310026	2031-02-12 07:25:16.22	17 29 53.58212 −22 42 49.56030	2.9	6.027	183.06	28.10	5.747	23.9	8.740	14.560	13.158	9.5	59.9
Pgt	4117505745683431552	17 29 53.55890 −22 42 55.57918	2.0	25.124	2.40	−2.68		22.5	0.987	14.929	0	−22.7	63.5
J310027	2031-02-12 17:53:49.27	17 30 11.83560 −22 43 16.77415	2.1	7.746	3.03	27.94	5.741	−29.2	7.123	12.106	10.852	212.0	60.3
Pgt	4117506261079393920	17 30 11.86517 −22 43 09.03946	1.3	32.251	2.37	−2.68		−30.6	1.545	12.469	0	−22.7	57.7
J310028	2031-02-13 08:48:56.50	17 30 37.72540 −22 43 43.09405	3.6	15.257	2.99	27.70	5.732	−64.7	8.536	14.347	12.931	347.7	60.8
Pgt	4117493960292885120	17 30 37.78284 −22 43 27.85729	2.3	63.431	2.32	−2.68		−65.9	0.994	14.700	0	−22.7	49.4
J310029	2031-02-14 22:51:37.50	17 31 43.04804 −22 44 14.51476	1.5	0.505	2.87	27.08	5.709	−1.2	9.055	12.930	11.816	135.7	62.1
Pgt	4117450460859464704	17 31 43.04987 −22 44 14.01017	1.0	2.092	2.21	−2.68		−2.7	0.469	13.260	0	−22.8	27.9
J310030	2031-02-15 05:38:26.38	17 31 54.51143 −22 44 33.99669	1.9	12.049	2.85	26.97	5.705	−47.2	9.889	14.625	13.413	33.8	62.4
Pgt	4117449842384082560	17 31 54.55479 −22 44 21.96255	1.3	49.859	2.19	−2.67		−48.5	0.369	14.950	0	−22.8	24.0
J310031	2031-02-16 02:09:18.71	17 32 29.06360 −22 45 03.56934	10.1	18.059	2.80	26.63	5.693		7.578	14.853	13.236	85.4	63.1
P	4117470041555163392	17 32 29.12729 −22 44 45.53157	7.0	74.567	2.13	−2.67				15.164	0	−22.8	12.1
J310032	2031-02-16 18:28:33.16	17 32 56.36846 −22 45 06.03175	2.5	2.274	2.75	26.36	5.683	−7.8	9.698	14.788	13.498	200.0	63.7
Pgt	4117459188246649984	17 32 56.37633 −22 45 03.75995	1.6	9.375	2.08	−2.67		−9.4	0.483	15.088	0	−22.8	2.7
J310033	2031-02-16 18:45:30.41	17 32 56.81497 −22 45 13.04029	2.1	8.979	2.75	26.36	5.683	−33.9	9.631	14.679	13.420	195.8	63.7
Pgt	4117459188246648832	17 32 56.84608 −22 45 04.07150	1.3	37.009	2.08	−2.67		−35.3	0.465	14.979	0	−22.8	2.6
J310034	2031-02-16 21:52:10.24	17 33 02.01535 −22 45 06.91706	3.2	0.576	182.73	26.30	5.681	2.9	8.241	13.917	12.509	149.0	63.8
Pgt	4117459149518112256	17 33 02.01336 −22 45 07.49261	2.1	2.374	2.07	−2.67		1.4	1.205	14.215	0	−22.8	1.3
J310035*	2031-02-17 07:00:18.52	17 33 17.08395 −22 45 33.27510	5.9	15.850	2.71	26.15	5.676	−67.7	9.250	14.638	13.224	11.6	64.1
Pgt	4117458260533972224	17 33 17.13822 −22 45 17.44337	3.9	65.241	2.04	−2.67		−69.0	0.608	14.929	0	−22.8	5.2
J310036	2031-02-18 02:44:16.43	17 33 49.60021 −22 45 26.21169	3.9	12.258	182.65	25.82	5.663	49.1	8.485	14.197	12.754	75.0	64.8
Pgt	4117461142382913280	17 33 49.55921 −22 45 38.45688	2.5	50.351	1.98	−2.67		47.8	1.011	14.474	0	−22.8	16.9
J310037	2031-02-18 06:53:51.15	17 33 56.29399 −22 45 59.50940	4.3	16.724	2.65	25.75	5.661	−74.9	8.726	14.551	13.048	12.4	65.0
Pgt	4117460425198523520	17 33 56.34985 −22 45 42.80335	2.8	68.663	1.97	−2.67		−76.1		14.825	0	−22.8	19.4
J310038	2031-02-18 07:46:40.68	17 33 57.75550 −22 45 52.60756	1.5	8.897	2.64	25.74	5.660	−33.4	9.163	13.779	12.597	359.2	65.0
Pgt	4117460459558258432	17 33 57.78517 −22 45 43.71962	1.0	36.526	1.97	−2.67		−34.8	0.401	14.053	0	−22.8	19.9
J310039	2031-02-18 08:36:34.44	17 33 59.13882 −22 45 45.01865	2.5	0.435	2.64	25.72	5.660	−0.9	7.817	12.912	11.587	346.7	65.0
Pgt	4117460455184702208	17 33 59.14026 −22 45 44.58390	1.6	1.786	1.96	−2.67		−2.4	0.964	13.185	0	−22.8	20.4
J310040	2031-02-18 16:01:16.98	17 34 11.14150 −22 46 07.00091	1.7	14.780	2.62	25.59	5.655	−60.5	9.995	14.345	13.197	235.3	65.3
Pgt	4117460523904173824	17 34 11.19039 −22 45 52.23633	1.2	60.622	1.94	−2.67		−61.7	0.285	14.612	0	−22.8	24.9
J310041	2031-02-19 07:32:03.00	17 34 36.23868 −22 46 11.86120	1.7	3.904	2.58	25.33	5.646	−13.9	9.244	14.048	12.816	2.0	65.9
Pgt	4116710553902587264	17 34 36.25138 −22 46 07.96125	1.0	15.985	1.90	−2.67		−15.4	0.628	14.304	0	−22.8	34.2
J310042	2031-02-19 10:55:41.41	17 34 41.69438 −22 46 14.83690	2.3	3.491	2.57	25.27	5.644	−12.3	9.404	14.500	13.162	311.0	66.0
Pgt	4116710519542841600	17 34 41.70568 −22 46 11.34963	1.4	14.288	1.89	−2.67		−13.9	0.558	14.754	0	−22.8	36.3

Table 1 *continued on next page*

Table 1 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310043	2031-02-19 10:56:33.22	17 34 41.68066 −22 46 26.18654	1.7	14.838	2.57	25.27	5.644	−60.6	9.123	14.200	12.879	310.8	66.0
Pgt	4116710489579426688	17 34 41.72879 −22 46 11.36396	1.1	60.732	1.89	−2.67		−61.9	0.646	14.454	0	−22.8	36.3
J310044	2031-02-19 14:02:35.61	17 34 46.68150 −22 46 20.97969	1.8	6.543	2.56	25.22	5.642	−24.0	9.648	14.191	13.005	264.2	66.1
Pgt	4116710313384406272	17 34 46.70263 −22 46 14.44317	1.1	26.772	1.88	−2.67		−25.5	0.392	14.442	0	−22.8	38.1
J310045	2031-02-19 18:23:44.33	17 34 53.68625 −22 46 13.64662	2.4	5.098	182.55	25.15	5.639	19.9	9.946	14.994	13.690	198.8	66.3
Pgt	4116710661378471808	17 34 53.66988 −22 46 18.73935	1.4	20.849	1.87	−2.67		18.4	0.392	15.242	0	−22.8	40.8
J310046	2031-02-19 20:19:18.48	17 34 56.69016 −22 46 38.53969	2.9	17.927	2.55	25.11	5.638		8.972	14.570	13.147	169.8	66.3
Pt	4116707706440956288	17 34 56.74775 −22 46 20.63088	1.8	73.299	1.86	−2.67			0.788	14.817	0	−22.8	41.9
J310047	2031-02-20 16:03:15.89	17 35 28.14105 −22 46 21.25801	3.3	18.426	182.48	24.77	5.625		9.459	14.948	13.546	233.1	67.0
P	4116800683835495808	17 35 28.08332 −22 46 39.66702	1.9	75.179	1.80	−2.66			0.619	15.180	0	−22.8	53.8
J310048	2031-02-20 17:42:22.62	17 35 30.64592 −22 46 55.31882	8.5	14.100	2.49	24.74	5.624	−56.3	6.422	13.829	11.615	208.3	67.1
Pgt	4116800477738530560	17 35 30.69018 −22 46 41.23258	4.8	57.515	1.80	−2.66		−57.6		14.060	0	−22.8	54.8
J310049	2031-02-21 02:08:36.93	17 35 43.91183 −22 47 06.54624	3.8	17.400	2.47	24.60	5.619	−82.6	9.298	14.830	13.413	81.4	67.4
Pg	4116789104641093632	17 35 43.96598 −22 46 49.16248	2.0	70.911	1.78	−2.66		−83.8	0.664	15.055	0	−22.8	59.8
J310050	2031-02-21 15:38:06.92	17 36 05.07176 −22 46 56.99064	1.4	4.626	182.43	24.36	5.611	18.1	5.910	10.153	9.019	238.6	67.9
Pgt	4116789654396613888	17 36 05.05760 −22 47 01.61267	0.7	18.825	1.74	−2.66		16.5	2.181	10.367	0	−22.8	67.8
J310051	2031-02-21 17:23:08.74	17 36 07.74408 −22 47 15.49819	1.7	12.302	2.43	24.33	5.610	−47.4	9.132	14.127	12.835	212.3	67.9
Pgt	4116789448238138752	17 36 07.78172 −22 47 03.20739	0.9	50.050	1.73	−2.66		−48.8	0.603	14.340	0	−22.8	68.9
J310052	2031-02-22 06:47:20.51	17 36 28.50067 −22 47 29.41482	2.1	14.165	2.39	24.09	5.601	−56.3	9.422	11.295	10.667	10.8	68.4
Pgt	4116786699458811904	17 36 28.54340 −22 47 15.26178	1.1	57.545	1.70	−2.66		−57.6	0.242	11.498	0	−22.8	76.7
J310053	2031-02-22 08:24:07.38	17 36 31.02563 −22 47 18.28894	3.8	1.596	2.38	24.07	5.600	−5.2	8.561	14.419	12.947	346.5	68.5
Pgt	4116786699458796288	17 36 31.03043 −22 47 16.69401	2.0	6.484	1.69	−2.66		−6.7		14.620	0	−22.8	77.7
J310054	2031-02-22 09:41:05.88	17 36 33.00694 −22 47 17.75783	3.9	0.073	182.37	24.04	5.599	1.1	7.288	13.308	11.813	327.2	68.5
Pgt	4116786660718141824	17 36 33.00672 −22 47 17.83032	2.1	0.295	1.69	−2.66		−0.5	2.147	13.508	0	−22.8	78.4
J310055	2031-02-22 11:42:44.95	17 36 36.12377 −22 47 20.64602	1.7	1.026	2.38	24.01	5.598	−3.0	9.076	14.035	12.750	296.7	68.6
Pgt	4116786660718119680	17 36 36.12685 −22 47 19.62109	0.9	4.165	1.68	−2.66		−4.6	0.539	14.234	0	−22.8	79.6
J310056	2031-02-22 14:27:47.60	17 36 40.36773 −22 47 17.33521	1.8	4.710	182.37	23.96	5.596	18.3	9.120	14.326	13.013	255.4	68.7
Pgt	4116791784660661376	17 36 40.35367 −22 47 22.04075	1.1	19.115	1.68	−2.66		16.8	0.426	14.522	0	−22.8	81.2
J310057	2031-02-23 03:21:28.70	17 37 00.04411 −22 47 42.79263	2.5	9.568	2.34	23.73	5.588	−35.6	9.786	14.969	13.653	61.5	69.2
Pgt	4116745051074898304	17 37 00.07231 −22 47 33.23282	1.3	38.777	1.64	−2.66		−37.0	0.491	15.155	0	−22.8	88.6
J310058	2031-02-23 04:54:41.96	17 37 02.44074 −22 47 33.48539	2.1	1.080	182.33	23.70	5.587	4.8	9.954	14.406	13.246	38.2	69.2
Pgt	4116745055445766912	17 37 02.43756 −22 47 34.56466	1.0	4.377	1.64	−2.66		3.2	0.290	14.591	0	−22.8	89.5
J310059	2031-02-23 18:45:53.05	17 37 23.45316 −22 47 36.36556	2.6	9.924	182.29	23.46	5.578	38.4	9.461	14.844	13.495	189.9	69.7
Pgt	4116745605201342592	17 37 23.42447 −22 47 46.28179	1.3	40.151	1.60	−2.66		37.0		15.018	0	−22.8	97.3
J310060	2031-02-23 21:53:31.38	17 37 28.09147 −22 48 04.47001	4.8	15.595	2.29	23.40	5.576	−64.1	8.155	14.874	13.311	142.9	69.8
Pgt	4116745360312484608	17 37 28.13655 −22 47 48.88785	2.5	63.071	1.59	−2.66		−65.4		15.044	0	−22.8	99.0
J310061	2031-02-23 23:49:58.83	17 37 31.00524 −22 48 08.18009	2.1	17.696	2.29	23.37	5.575		9.638	14.870	13.568	113.7	69.9
Pt	4116745364683091584	17 37 31.05630 −22 47 50.49811	1.2	71.554	1.58	−2.66			0.536	15.039	0	−22.8	100.1
J310062	2031-02-24 01:19:36.59	17 37 33.25569 −22 48 07.43038	5.8	15.709	2.28	23.34	5.574	−64.8	7.545	14.782	13.162	91.2	70.0
Pgt	4116745399042813056	17 37 33.30094 −22 47 51.73369	3.3	63.509	1.58	−2.66		−66.1		14.950	0	−22.8	100.9
J310063	2031-02-24 09:34:21.65	17 37 45.68174 −22 47 48.10230	4.9	10.402	182.25	23.19	5.569	40.3	8.400	14.798	13.263	327.2	70.3
Pgt	4116742787702620800	17 37 45.65216 −22 47 58.49595	2.7	42.012	1.56	−2.66		38.9		14.959	0	−22.8	105.5
J310064	2031-02-24 14:07:58.28	17 37 52.42261 −22 48 13.37476	2.2	11.190	2.25	23.11	5.566	−42.1	9.778	14.926	13.663	258.7	70.4
Pgt	4116742615903871744	17 37 52.45436 −22 48 02.19371	1.3	45.171	1.55	−2.66		−43.5	0.455	15.083	0	−22.8	108.0

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

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

Table 2. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K ≤ 10 (part 2 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310065	2031-02-24 22:37:08.88	17 38 05.10066 −22 47 54.23621	4.1	14.771	182.22	22.96	5.561	60.3	8.284	14.733	13.240	131.1	70.7
Pgt	4116765327696859392	17 38 05.05929 −22 48 08.99605	2.3	59.570	1.52	−2.66		59.0		14.883	0	−22.8	112.6
J310066	2031-02-25 04:08:19.61	17 38 13.26442 −22 47 57.47837	2.2	15.899	182.21	22.86	5.557	67.0	9.321	14.729	13.397	48.1	70.9
Pgt	4116765155898081152	17 38 13.22017 −22 48 13.36545	1.2	64.078	1.51	−2.66		65.7	0.581	14.874	0	−22.8	115.6
J310067	2031-02-25 04:54:41.30	17 38 14.37684 −22 48 08.01108	2.6	5.967	182.21	22.85	5.557	22.9	9.411	14.874	13.523	36.5	71.0
Pgt	4116765155898060800	17 38 14.36023 −22 48 13.97367	1.5	24.047	1.51	−2.66		21.4	0.548	15.019	0	−22.8	116.0
J310068	2031-02-25 06:10:31.38	17 38 16.19969 −22 48 23.60488	3.3	8.645	2.21	22.83	5.556	−31.7	8.624	14.468	13.007	17.5	71.0
Pgt	4116765087178554624	17 38 16.22378 −22 48 14.96673	1.8	34.833	1.50	−2.66		−33.2	0.847	14.611	0	−22.8	116.7
J310069	2031-02-25 15:52:00.34	17 38 30.43847 −22 48 30.51225	1.5	8.012	2.18	22.65	5.550	−29.2	8.533	13.392	12.162	231.8	71.4
Pgt	4116753572289928320	17 38 30.46055 −22 48 22.50642	0.8	32.246	1.48	−2.66		−30.7	0.623	13.527	0	−22.8	121.8
J310070	2031-02-25 17:05:05.50	17 38 32.22163 −22 48 31.33014	3.0	7.891	2.18	22.63	5.549	−28.7	9.800	14.921	13.500	213.5	71.4
Pgt	4116753576610603392	17 38 32.24335 −22 48 23.44476	1.6	31.757	1.47	−2.66		−30.2		15.055	0	−22.8	122.5
J310071	2031-02-25 19:45:48.83	17 38 36.15793 −22 48 25.78025	1.6	0.279	2.17	22.58	5.547	−0.2	8.917	13.837	12.578	173.2	71.5
Pgt	4116753537965591424	17 38 36.15870 −22 48 25.50097	1.0	1.124	1.47	−2.66		−1.8	0.516	13.969	0	−22.8	123.9
J310072	2031-02-26 10:38:13.63	17 38 57.74589 −22 48 45.37117	2.0	8.639	2.14	22.31	5.537	−31.6	9.959	14.669	13.453	309.6	72.0
Pgt	4116754087690589568	17 38 57.76921 −22 48 36.73808	1.1	34.696	1.43	−2.66		−33.1	0.344	14.787	0	−22.8	131.6
J310073	2031-02-26 23:37:49.34	17 39 16.42813 −22 49 01.50141	3.4	15.204	2.11	22.08	5.529	−60.9	8.597	14.571	13.123	114.2	72.5
Pgt	4116751308919986560	17 39 16.46859 −22 48 46.30744	1.9	60.970	1.40	−2.65		−62.3	0.984	14.679	0	−22.8	138.3
J310074	2031-02-27 03:30:56.00	17 39 21.97816 −22 49 07.64759	4.4	18.536	2.10	22.01	5.527		8.659	14.915	13.409	55.8	72.7
Pt	4116750582997252992	17 39 22.02729 −22 48 49.12434	2.4	74.296	1.39	−2.65				15.019	0	−22.8	140.3
J310075	2031-02-27 04:22:39.83	17 39 23.30288 −22 48 33.01331	1.9	16.744	182.09	21.99	5.526	72.6	9.277	14.635	13.326	42.8	72.7
Pgt	4116750690444683136	17 39 23.25879 −22 48 49.74669	1.0	67.110	1.38	−2.65		71.3	0.543	14.738	0	−22.8	140.7
J310076	2031-02-28 00:15:22.52	17 39 51.40962 −22 49 16.82611	2.8	13.014	2.05	21.63	5.513	−49.6	9.001	14.595	13.221	104.0	73.4
Pgt	4116568480827537536	17 39 51.44328 −22 49 03.82025	1.5	52.037	1.33	−2.65		−51.0		14.681	0	−22.8	150.7
J310077*	2031-02-28 03:24:11.32	17 39 55.87090 −22 49 04.98626	24.5	1.015	182.04	21.58	5.511	4.5	9.788	11.590	10.955	56.6	73.5
Pgt	4116568854344108160	17 39 55.86829 −22 49 06.00036	14.2	4.056	1.32	−2.65		2.9	0.206	11.672	0	−22.8	152.3
J310078	2031-03-01 05:01:55.58	17 40 31.57165 −22 49 06.76296	5.4	16.523	181.97	21.11	5.494	70.1	7.829	14.507	12.936	31.3	74.5
Pgt	4116566487963003136	17 40 31.53056 −22 49 23.27647	2.9	65.844	1.26	−2.65		68.8		14.565	0	−22.8	164.9
J310079	2031-03-01 06:57:42.50	17 40 34.23584 −22 49 05.36579	2.5	19.189	181.97	21.07	5.493		9.024	14.567	13.202	2.3	74.5
P	4116566277363365376	17 40 34.18824 −22 49 24.54304	1.4	76.448	1.26	−2.65			0.701	14.623	0	−22.8	165.8
J310080	2031-03-01 08:40:18.37	17 40 36.51623 −22 49 35.23163	1.8	9.576	1.97	21.04	5.492	−34.9	9.867	14.179	13.042	336.6	74.6
Pgt	4116566213085043456	17 40 36.54006 −22 49 25.66144	1.1	38.143	1.25	−2.65		−36.4	0.281	14.234	0	−22.8	166.7
J310081	2031-03-01 15:08:18.29	17 40 45.43098 −22 49 19.92170	2.7	9.942	181.95	20.92	5.488	37.9	8.607	14.277	12.884	239.4	74.8
Pgt	4116565869487611392	17 40 45.40651 −22 49 29.85761	1.6	39.569	1.24	−2.65		36.4	0.908	14.326	0	−22.8	169.8
J310082	2031-03-01 15:19:20.29	17 40 45.62313 −22 49 44.08522	1.8	14.117	1.96	20.92	5.488	−54.6	8.951	13.922	12.688	236.6	74.8
Pgt	4116565865046490624	17 40 45.65801 −22 49 29.97617	1.1	56.188	1.24	−2.65		−55.9	0.523	13.970	0	−22.8	169.9
J310083	2031-03-01 16:10:04.10	17 40 46.83839 −22 49 20.56787	4.9	9.959	181.95	20.90	5.487	37.9	8.563	14.930	13.398	223.9	74.9
Pgt	4116565869487601536	17 40 46.81392 −22 49 30.52074	2.9	39.632	1.23	−2.65		36.4		14.978	0	−22.8	170.3
J310084	2031-03-02 05:57:38.83	17 41 05.59619 −22 49 26.87471	4.5	12.411	181.91	20.65	5.478	48.0	8.260	14.652	13.119	16.5	75.4
Pgt	4116929258033509760	17 41 05.56620 −22 49 39.27916	2.6	49.312	1.20	−2.65		46.6		14.686	0	−22.8	176.8
J310085	2031-03-02 12:52:29.15	17 41 14.92345 −22 49 30.44564	2.5	13.143	181.90	20.52	5.474	51.2	9.003	14.515	13.129	272.5	75.6
Pgt	4116929081833866496	17 41 14.89196 −22 49 43.58104	1.5	52.174	1.18	−2.65		49.8		14.543	0	−22.8	178.4
J310086	2031-03-02 13:51:56.98	17 41 16.26796 −22 49 26.08511	1.6	18.118	181.89	20.50	5.473		8.593	13.676	12.393	257.6	75.7
P	4116929120594026752	17 41 16.22464 −22 49 44.19287	1.0	71.916	1.18	−2.65			0.647	13.703	0	−22.8	178.2
J310087	2031-03-02 18:49:17.87	17 41 22.88099 −22 49 43.98875	1.4	3.247	181.89	20.41	5.470	12.6	9.863	13.240	12.260	183.1	75.8
Pgt	4116928669516961536	17 41 22.87325 −22 49 47.23426	0.7	12.882	1.17	−2.65		11.0	0.222	13.262	0	−22.8	176.2
J310088	2031-03-03 00:51:39.83	17 41 30.96821 −22 49 39.21473	2.4	11.692	181.87	20.30	5.466	44.8	9.301	14.690	13.362	92.3	76.1
Pgt	4116928639557442816	17 41 30.94060 −22 49 50.90026	1.2	46.348	1.15	−2.65		43.4	0.614	14.706	0	−22.8	173.4

Table 2 *continued on next page*

Table 2 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310089	2031-03-03 04:38:09.82	17 41 35.97098 −22 49 50.01696	4.2	3.154	181.87	20.23	5.463	12.3	7.720	14.358	12.812	35.6	76.2
Pgt	4116928536478142208	17 41 35.96355 −22 49 53.16938	2.3	12.498	1.14	−2.65		10.6		14.370	0	−22.8	171.6
J310090	2031-03-03 05:17:46.87	17 41 36.82643 −22 49 59.56213	2.7	6.001	1.87	20.21	5.463	−21.1	9.386	14.964	13.558	25.6	76.2
Pgt	4116928536478117376	17 41 36.84058 −22 49 53.56452	1.6	23.775	1.14	−2.65		−22.7		14.976	0	−22.8	171.3
J310091	2031-03-03 08:33:38.28	17 41 41.20067 −22 49 42.21667	2.4	13.301	181.85	20.15	5.461	51.8	9.777	14.948	13.626	336.6	76.4
Pgt	4116928502118336256	17 41 41.16954 −22 49 55.51032	1.3	52.677	1.14	−2.65		50.4		14.957	0	−22.8	169.7
J310092	2031-03-03 08:51:31.96	17 41 41.54776 −22 50 02.81099	2.0	7.127	1.86	20.15	5.460	−25.3	9.783	14.949	13.635	332.1	76.4
Pgt	4116928502068029568	17 41 41.56450 −22 49 55.68747	1.1	28.226	1.13	−2.65		−26.9	0.425	14.957	0	−22.8	169.6
J310093	2031-03-03 09:33:22.48	17 41 42.50582 −22 49 48.33512	1.6	7.770	181.85	20.14	5.460	29.3	9.822	13.938	12.829	321.6	76.4
Pgt	4116928497718251008	17 41 42.48765 −22 49 56.10127	0.9	30.770	1.13	−2.65		27.8	0.261	13.945	0	−22.8	169.3
J310094	2031-03-03 09:44:33.25	17 41 42.70259 −22 50 09.66489	1.7	13.460	1.86	20.13	5.460	−51.1	9.394	14.505	13.228	318.8	76.4
Pgt	4116925547180785408	17 41 42.73421 −22 49 56.21174	1.0	53.301	1.13	−2.65		−52.5	0.476	14.512	0	−22.8	169.2
J310095*	2031-03-03 17:35:57.32	17 41 53.11348 −22 49 53.97240	8.4	6.863	181.84	19.99	5.455	25.9	9.314	14.627	13.234	200.6	76.7
Pgt	4116926985889757696	17 41 53.09757 −22 50 00.83224	4.9	27.153	1.11	−2.65		24.3	0.668	14.626	0	−22.8	165.4
J310096*	2031-03-03 21:08:59.03	17 41 57.76161 −22 50 01.98689	16.7	0.910	181.83	19.92	5.452	4.1	7.633	14.941	13.337	147.3	76.8
Pgt	4116926882810563200	17 41 57.75951 −22 50 02.89641	9.5	3.599	1.11	−2.65		2.5		14.936	0	−22.8	163.6
J310097	2031-03-03 22:18:46.13	17 41 59.25026 −22 50 18.05413	2.0	14.492	1.83	19.90	5.452	−56.0	9.761	14.772	13.495	129.8	76.9
Pgt	4116926814090968448	17 41 59.28380 −22 50 03.56939	1.1	57.301	1.10	−2.65		−57.4	0.428	14.767	0	−22.8	163.1
J310098	2031-03-03 22:40:33.51	17 41 59.77324 −22 49 57.79527	4.4	5.987	181.82	19.89	5.451	22.6	7.327	14.240	12.634	124.3	76.9
Pgt	4116926852850639104	17 41 59.75945 −22 50 03.77919	2.6	23.671	1.10	−2.65		21.0	2.372	14.234	0	−22.8	162.9
J310099	2031-03-04 03:46:49.59	17 42 06.43592 −22 50 04.26389	3.8	2.449	181.81	19.80	5.448	9.7	8.034	14.275	12.737	47.6	77.1
Pgt	4116926474893419520	17 42 06.43031 −22 50 06.71178	2.2	9.677	1.09	−2.65		8.0		14.264	0	−22.8	160.4
J310100	2031-03-04 04:56:00.75	17 42 07.95167 −22 49 59.39000	2.0	7.984	181.81	19.78	5.447	30.0	8.432	13.722	12.353	30.2	77.1
Pgt	4116926474893406464	17 42 07.93343 −22 50 07.37003	1.1	31.543	1.09	−2.65		28.5	0.839	13.710	0	−22.8	159.8
J310101	2031-03-04 06:15:07.48	17 42 09.68635 −22 49 52.37338	1.7	15.755	181.80	19.75	5.446	64.1	9.979	14.389	13.245	10.4	77.1
Pgt	4116926440533653376	17 42 09.65047 −22 50 08.12082	1.0	62.235	1.08	−2.65		62.8	0.271	14.376	0	−22.8	159.2
J310102	2031-03-04 08:51:20.28	17 42 13.05449 −22 50 01.23557	3.1	8.366	181.80	19.70	5.445	31.5	8.981	14.613	13.178	331.3	77.2
Pgt	4116926436133890944	17 42 13.03547 −22 50 09.59737	1.8	33.036	1.08	−2.65		29.9	0.738	14.596	0	−22.8	157.9
J310103*	2031-03-04 23:09:04.01	17 42 31.50496 −22 50 11.72826	4.6	5.840	181.77	19.44	5.435	22.0	9.550	14.973	13.579	116.3	77.8
Pgt	4116885170088088960	17 42 31.49191 −22 50 17.56523	2.9	23.020	1.05	−2.64		20.4	0.474	14.942	0	−22.8	150.8
J310104	2031-03-04 23:35:12.49	17 42 32.05223 −22 50 17.23195	1.7	0.573	181.77	19.43	5.435	2.9	9.834	14.295	13.139	109.8	77.8
Pgt	4116885174478177792	17 42 32.05095 −22 50 17.80440	1.2	2.258	1.04	−2.64		1.2		14.263	0	−22.8	150.6
J310105	2031-03-05 12:13:45.30	17 42 48.22313 −22 50 06.86357	5.2	17.796	181.74	19.19	5.427	80.2	7.849	14.517	12.932	279.7	78.3
Pg	4116884693368898432	17 42 48.18409 −22 50 24.65157	3.1	70.041	1.02	−2.64		78.9		14.472	0	−22.9	144.3
J310106	2031-03-05 15:04:24.81	17 42 51.81105 −22 50 16.63151	2.3	9.540	181.73	19.14	5.425	35.9	8.652	14.060	12.702	236.9	78.4
Pgt	4116884624721991680	17 42 51.79016 −22 50 26.16746	1.3	37.535	1.01	−2.64		34.3		14.012	0	−22.9	142.9
J310107	2031-03-05 21:33:45.32	17 43 00.02144 −22 50 12.62038	1.9	16.979	181.72	19.02	5.420	71.9	9.804	14.080	12.954	139.3	78.6
Pgt	4116884556002397312	17 42 59.98462 −22 50 29.59221	1.1	66.751	0.99	−2.64		70.6	0.289	14.025	0	−22.9	139.6
J310108	2031-03-06 04:28:48.01	17 43 08.65416 −22 50 40.54249	4.7	7.354	1.71	18.89	5.416	−25.9	8.349	14.822	13.284	35.3	78.9
Pgt	4116881566705001856	17 43 08.67006 −22 50 33.19174	3.1	28.886	0.98	−2.64		−27.5		14.760	0	−22.9	136.1
J310109	2031-03-06 10:32:12.71	17 43 16.19217 −22 50 54.91694	5.4	18.625	1.70	18.78	5.412		8.083	14.783	13.216	304.3	79.1
Pt	4116882769295726592	17 43 16.23224 −22 50 36.30030	3.2	73.103	0.97	−2.64				14.715	0	−22.9	133.1
J310110	2031-03-06 11:19:45.81	17 43 17.21716 −22 50 37.45386	2.9	0.750	1.70	18.76	5.411	−1.9	9.355	14.826	13.455	292.3	79.1
Pgt	4116882803655471104	17 43 17.21877 −22 50 36.70408	1.7	2.944	0.96	−2.64		−3.5	0.568	14.756	0	−22.9	132.7
J310111	2031-03-06 11:41:36.80	17 43 17.70690 −22 50 20.44407	1.7	16.452	181.69	18.75	5.411	67.8	8.913	13.766	12.534	286.9	79.1
Pgt	4116882803655482368	17 43 17.67184 −22 50 36.88939	1.0	64.567	0.96	−2.64		66.5	0.508	13.696	0	−22.9	132.5
J310112	2031-03-06 14:20:13.23	17 43 20.95529 −22 50 38.71632	4.6	0.486	1.69	18.70	5.409	−0.9	8.194	14.429	12.916	247.1	79.2
Pgt	4116882730553857792	17 43 20.95633 −22 50 38.23024	2.6	1.908	0.96	−2.64		−2.6		14.356	0	−22.9	131.1
J310113	2031-03-06 18:22:27.06	17 43 25.93070 −22 50 52.95071	3.4	12.693	1.69	18.63	5.407	−47.0	9.104	14.900	13.483	186.4	79.4
Pgt	4116882077718819712	17 43 25.95770 −22 50 40.26348	1.9	49.771	0.95	−2.64		−48.5	0.748	14.823	0	−22.9	129.1

Table 2 *continued on next page*

Table 2 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310114	2031-03-08 01:00:52.90	17 44 03.31546 −22 51 03.81827	1.4	8.689	1.62	18.05	5.386	−30.8	9.376	13.285	12.211	85.7	80.5
Pgt	4116893730055313792	17 44 03.33323 −22 50 55.13243	0.8	33.944	0.88	−2.64		−32.4	0.305	13.173	0	−22.9	113.1
J310115	2031-03-08 05:11:58.12	17 44 08.34436 −22 51 03.43287	1.9	6.348	1.61	17.97	5.383	−22.1	7.796	12.991	11.730	22.8	80.7
Pgt	4116893072827700352	17 44 08.35727 −22 50 57.08713	1.2	24.786	0.87	−2.64		−23.7	0.865	12.874	0	−22.9	110.9
J310116	2031-03-08 05:24:08.91	17 44 08.58429 −22 51 05.13442	2.6	7.956	1.61	17.97	5.383	−28.0	8.080	14.746	13.376	19.7	80.7
Pgt	4116893077220241536	17 44 08.60047 −22 50 57.18149	1.6	31.063	0.87	−2.64		−29.6		14.629	0	−22.9	110.8
J310117	2031-03-08 15:33:13.83	17 44 20.66437 −22 51 21.38298	4.6	19.544	1.60	17.77	5.377		8.594	14.998	13.454	227.1	81.0
P	4116893145939603584	17 44 20.70373 −22 51 01.84695	2.7	76.209	0.85	−2.64				14.870	0	−22.9	105.4
J310118	2031-03-08 20:45:16.54	17 44 26.89245 −22 50 47.70871	4.5	16.495	181.57	17.67	5.373	67.4	8.578	14.912	13.400	148.9	81.2
Pgt	4116893283378521088	17 44 26.85977 −22 51 04.19710	2.8	64.278	0.84	−2.64		66.0		14.778	0	−22.9	102.7
J310119	2031-03-09 01:36:03.17	17 44 32.59943 −22 50 50.95848	3.5	15.410	181.56	17.58	5.370	60.9	8.145	14.205	12.721	76.0	81.4
Pgt	4116890358408396800	17 44 32.56907 −22 51 06.36293	2.1	60.016	0.83	−2.64		59.6	1.219	14.065	0	−22.9	100.1
J310120	2031-03-09 12:51:31.97	17 44 45.72953 −22 51 11.95068	1.2	0.646	1.55	17.37	5.362	−1.5	8.412	13.094	11.865	266.8	81.8
Pgt	4116891526646872320	17 44 45.73079 −22 51 11.30492	0.7	2.512	0.80	−2.64		−3.1	0.689	12.941	0	−22.9	94.0
J310121	2031-03-09 17:08:24.18	17 44 50.69986 −22 51 12.49474	2.3	0.657	181.53	17.29	5.359	3.2	8.787	13.750	12.369	202.4	82.0
Pgt	4116890878196552320	17 44 50.69859 −22 51 13.15169	1.2	2.554	0.80	−2.64		1.5	0.742	13.592	0	−22.9	91.7
J310122	2031-03-09 17:23:03.69	17 44 50.96999 −22 51 19.15933	5.4	5.905	1.54	17.28	5.359	−20.3	8.054	14.858	13.280	198.7	82.0
Pgt	4116890878196541696	17 44 50.98145 −22 51 13.25654	2.9	22.952	0.79	−2.64		−22.0		14.700	0	−22.9	91.5
J310123*	2031-03-10 00:24:42.43	17 44 59.06244 −22 51 30.01733	3.8	13.774	1.53	17.15	5.355	−51.3	8.809	14.389	12.980	93.0	82.3
Pgt	4116890637678260480	17 44 59.08901 −22 51 16.24781	2.2	53.493	0.78	−2.64		−52.7	0.800	14.222	0	−22.9	87.7
J310124	2031-03-10 13:10:56.18	17 45 13.69981 −22 51 10.20511	4.8	11.362	181.49	16.90	5.346	42.4	8.333	14.964	13.404	261.0	82.7
Pgt	4068852665435325824	17 45 13.67840 −22 51 21.56327	2.8	44.054	0.75	−2.64		40.9		14.782	0	−22.9	80.7
J310125	2031-03-10 22:59:10.44	17 45 24.75197 −22 51 26.07570	1.2	0.535	1.48	16.72	5.339	−1.0	8.440	12.630	11.506	113.6	83.1
Pgt	4068858227318253184	17 45 24.75297 −22 51 25.54068	0.7	2.073	0.73	−2.64		−2.7	0.540	12.436	0	−22.9	75.2
J310126	2031-03-11 02:24:46.92	17 45 28.57311 −22 51 40.32207	3.5	13.417	1.48	16.65	5.337	−49.5	8.897	14.547	13.131	62.1	83.2
Pgt	4068857510160866816	17 45 28.59816 −22 51 26.91000	2.1	51.933	0.73	−2.64		−50.9	0.837	14.348	0	−22.9	73.3
J310127	2031-03-11 09:11:09.92	17 45 36.19353 −22 51 10.60801	1.2	18.983	181.45	16.52	5.333		9.234	12.659	11.677	320.2	83.5
P	4068857578880265856	17 45 36.15876 −22 51 29.58477	0.7	73.417	0.71	−2.64			0.331	12.451	0	−22.9	69.5
J310128	2031-03-11 10:26:49.18	17 45 37.55961 −22 51 30.54262	1.9	0.465	1.46	16.50	5.332	−0.8	9.447	14.585	13.283	301.3	83.5
Pgt	4068857578880224896	17 45 37.56047 −22 51 30.07809	1.1	1.797	0.71	−2.64		−2.5	0.397	14.376	0	−22.9	68.8
J310129	2031-03-11 12:45:35.50	17 45 40.12715 −22 51 30.81510	1.8	0.164	181.45	16.45	5.330	1.4	9.838	14.562	13.337	266.5	83.6
Pgt	4068857372721761152	17 45 40.12685 −22 51 30.97924	1.1	0.635	0.71	−2.64		−0.3	0.355	14.351	0	−22.9	67.5
J310130	2031-03-11 20:09:23.57	17 45 48.26228 −22 51 50.50635	2.0	16.683	1.45	16.31	5.325	−66.3	9.556	14.834	13.509	155.3	83.9
Pgt	4068854722625507840	17 45 48.29276 −22 51 33.82878	1.2	64.433	0.69	−2.64		−67.6	0.474	14.613	0	−22.9	63.4
J310131	2031-03-12 01:44:34.95	17 45 54.38709 −22 51 53.05916	2.4	17.116	1.44	16.20	5.321	−69.2	9.783	14.901	13.611	71.3	84.1
Pgt	4068854791344384512	17 45 54.41816 −22 51 35.94866	1.5	66.059	0.68	−2.63		−70.5		14.672	0	−22.9	60.2
J310132*	2031-03-12 10:14:15.97	17 46 03.68936 −22 51 24.29928	10.1	14.825	181.41	16.04	5.316	57.2	9.110	13.442	12.278	303.5	84.4
Pgt	4068856097015055232	17 46 03.66303 −22 51 39.11978	6.0	57.155	0.66	−2.63		55.8	0.376	13.203	0	−22.9	55.4
J310133	2031-03-12 10:16:36.92	17 46 03.68174 −22 51 52.35059	1.8	13.220	1.42	16.04	5.316	−48.4	9.770	14.495	13.292	303.0	84.4
Pgt	4068854550826215808	17 46 03.70545 −22 51 39.13425	1.1	50.969	0.66	−2.63		−49.9		14.255	0	−22.9	55.4
J310134	2031-03-12 11:11:42.97	17 46 04.73092 −22 51 21.95245	1.6	17.526	181.40	16.02	5.315	73.6	9.437	13.892	12.713	289.2	84.5
Pg	4068856097040283648	17 46 04.69986 −22 51 39.47329	0.9	67.561	0.66	−2.63		72.2	0.322	13.651	0	−22.9	54.9
J310135	2031-03-12 12:26:11.59	17 46 06.02617 −22 51 49.01756	2.1	9.090	1.41	16.00	5.314	−31.8	8.580	14.725	13.651	270.5	84.5
Pgt	4068856032691547008	17 46 06.04240 −22 51 39.93041	1.2	35.035	0.66	−2.63		−33.4	0.639	14.482	0	−22.9	54.1
J310136	2031-03-12 12:35:53.71	17 46 06.19551 −22 51 52.09982	4.8	12.114	1.42	16.00	5.314	−43.7	8.031	14.315	12.769	268.1	84.5
Pgt	4068856032691540352	17 46 06.21717 −22 51 39.98986	2.7	46.688	0.66	−2.63		−45.2		14.072	0	−22.9	54.1
J310137*	2031-03-13 05:42:45.33	17 46 24.51837 −22 52 00.23125	8.7	14.080	1.39	15.67	5.303	−52.0	9.655	14.809	13.040	10.7	85.1
Pgt	4068855100653223552	17 46 24.54301 −22 51 46.15542	4.9	54.149	0.63	−2.63		−53.5	0.353	14.544	0	−22.9	44.3
J310138	2031-03-13 07:05:54.31	17 46 26.03471 −22 51 33.53206	1.6	13.115	181.37	15.64	5.302	49.2	9.099	13.610	12.450	349.9	85.2
Pgt	4068855482936628224	17 46 26.01202 −22 51 46.64376	0.9	50.431	0.62	−2.63		47.8	0.396	13.343	0	−22.9	43.5

Table 2 *continued on next page*

Table 2 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310139	2031-03-13 13:33:25.93	17 46 32.81573 −22 51 56.40315	1.6	7.507	1.37	15.52	5.297	−25.9	8.650	12.394	11.357	252.8	85.4
Pgt	4068843761867766784	17 46 32.82870 −22 51 48.89843	0.9	28.841	0.61	−2.63		−27.5	0.436	12.118	0	−22.9	39.8
J310140	2031-03-13 18:10:38.44	17 46 37.65970 −22 51 59.17550	1.5	8.688	1.36	15.43	5.294	−30.2	9.183	13.753	12.568	183.3	85.6
Pgt	4068843796228976896	17 46 37.67464 −22 51 50.48996	0.9	33.360	0.60	−2.63		−31.8		13.471	0	−22.9	37.1
J310141	2031-03-13 20:31:41.60	17 46 40.16032 −22 51 33.85682	1.3	17.441	181.34	15.38	5.293	72.3	9.521	11.815	11.057	147.9	85.7
Pgt	4068843796228938624	17 46 40.13071 −22 51 51.29304	0.7	66.949	0.60	−2.63		70.9	0.223	11.530	0	−22.9	35.8
J310142	2031-03-14 00:37:24.24	17 46 44.36575 −22 52 08.91730	1.4	16.241	1.35	15.30	5.290	−62.9	9.282	13.479	12.372	86.4	85.9
Pgt	4068843624430283392	17 46 44.39353 −22 51 52.68124	0.8	62.309	0.59	−2.63		−64.3	0.343	13.188	0	−22.9	33.4
J310143	2031-03-14 06:06:02.96	17 46 50.05375 −22 52 00.69900	3.7	6.184	1.34	15.20	5.286	−21.0	8.202	14.405	12.891	4.0	86.1
Pgt	4068937396516796032	17 46 50.06422 −22 51 54.51682	2.2	23.709	0.58	−2.63		−22.7		14.107	0	−22.9	30.3
J310144	2031-03-14 09:11:17.80	17 46 53.27158 −22 51 39.65114	2.4	15.894	181.32	15.14	5.284	62.2	8.044	13.610	12.201	317.6	86.2
Pgt	4068936674962277632	17 46 53.24501 −22 51 55.54086	1.4	60.912	0.58	−2.63		60.8	0.941	13.307	0	−22.9	28.5
J310145	2031-03-14 09:40:08.03	17 46 53.76986 −22 51 37.30355	1.8	18.401	181.32	15.13	5.284	82.0	9.970	14.490	13.329	310.3	86.2
Pgt	4068936670600875776	17 46 53.73915 −22 51 55.69958	1.1	70.516	0.57	−2.63		80.7	0.281	14.187	0	−22.9	28.2
J310146	2031-03-15 02:32:18.73	17 47 10.90759 −22 52 02.36532	1.1	1.211	1.30	14.80	5.272	−3.4	9.612	12.629	11.735	56.7	86.8
Pgt	4068936842398673920	17 47 10.90959 −22 52 01.15464	0.6	4.631	0.54	−2.63		−5.1	0.239	12.302	0	−22.9	18.4
J310147	2031-03-15 03:57:52.88	17 47 12.36309 −22 51 50.88328	2.9	10.725	181.29	14.77	5.271	39.3	8.711	14.550	13.091	35.2	86.9
Pgt	4068933891823261184	17 47 12.34555 −22 52 01.60555	1.8	41.004	0.54	−2.63		37.8		14.221	0	−22.9	17.6
J310148[a]	2031-03-15 04:27:55.61	17 47 12.84975 −22 52 01.41802	5.3	0.346	181.30	14.76	5.271	2.1	9.081	14.922		27.7	86.9
Pgt	4068933887461176448	17 47 12.84918 −22 52 01.76350	3.1	1.321	0.54	−2.63		0.3	0.427	14.592	0	−22.9	17.3
J310149*[a]	2031-03-15 04:34:52.58	17 47 12.96466 −22 52 02.38890	12.0	0.589	1.30	14.76	5.271	−1.2	9.081	14.281	12.860	26.0	86.9
Pgt	4068933891823245440	17 47 12.96562 −22 52 01.80000	7.6	2.252	0.54	−2.63		−2.9	0.427	13.951	0	−22.9	17.3
J310150	2031-03-15 04:56:39.28	17 47 13.34878 −22 51 50.68015	3.7	11.237	181.29	14.75	5.271	41.3	8.358	14.909	13.339	20.5	86.9
Pgt	4068933921821748096	17 47 13.33043 −22 52 01.91434	2.3	42.957	0.54	−2.63		39.8		14.578	0	−22.9	17.1
J310151	2031-03-15 05:13:39.67	17 47 13.60896 −22 52 05.80294	2.2	3.800	1.30	14.75	5.271	−12.5	8.395	13.757	12.317	16.2	86.9
Pgt	4068933891823236864	17 47 13.61520 −22 52 02.00355	1.3	14.527	0.54	−2.63		−14.2	0.833	13.426	0	−22.9	16.9
J310152	2031-03-15 05:24:43.27	17 47 13.83224 −22 51 42.44251	1.5	19.624	181.29	14.74	5.270		8.893	14.093	12.786	13.5	86.9
P	4068933921959265920	17 47 13.80034 −22 52 02.06154	0.9	75.013	0.54	−2.63			0.549	13.762	0	−22.9	16.8
J310153	2031-03-15 06:26:48.17	17 47 14.81201 −22 52 18.64886	4.6	16.267	1.30	14.72	5.270	−62.6	7.702	14.904	13.282	357.9	87.0
Pgt	4068933891823210880	17 47 14.83881 −22 52 02.38653	2.8	62.171	0.54	−2.63		−64.1		14.572	0	−22.9	16.2
J310154	2031-03-15 09:01:36.90	17 47 17.40962 −22 52 11.23413	4.0	8.043	1.30	14.67	5.268	−27.7	8.049	14.919	13.325	319.1	87.1
Pgt	4068933857462151424	17 47 17.42278 −22 52 03.19338	2.4	30.730	0.53	−2.63		−29.3		14.583	0	−22.9	14.7
J310155	2031-03-15 09:11:48.70	17 47 17.56814 −22 52 18.20346	1.6	14.961	1.30	14.67	5.268	−55.7	9.556	14.574	13.299	316.6	87.1
Pgt	4068933857462138496	17 47 17.59269 −22 52 03.24635	1.0	57.161	0.53	−2.63		−57.2	0.439	14.237	0	−22.9	14.6
J310156	2031-03-15 14:38:06.73	17 47 22.98502 −22 52 21.12854	2.8	16.203	1.29	14.56	5.264	−62.2	8.308	14.334	12.850	234.8	87.3
Pgt	4068933754382820992	17 47 23.01145 −22 52 04.92965	1.8	61.863	0.52	−2.63		−63.6		13.989	0	−22.9	11.4
J310157	2031-03-15 16:33:35.42	17 47 24.89079 −22 52 23.80507	4.2	18.290	1.29	14.52	5.263	−78.1	7.783	14.622	13.015	205.8	87.4
Pgt	4068933754382781696	17 47 24.92058 −22 52 05.52003	2.6	69.813	0.52	−2.63		−79.5		14.274	0	−22.9	10.3
J310158*	2031-03-15 18:51:41.56	17 47 27.20443 −22 52 02.14725	3.1	4.076	181.27	14.48	5.261	15.1	9.941	14.643	13.391	171.2	87.4
Pgt	4068933720023032832	17 47 27.19786 −22 52 06.22244	1.9	15.555	0.51	−2.63		13.4	0.312	14.292	0	−22.9	9.0
J310159	2031-03-15 23:09:04.26	17 47 31.44417 −22 51 55.45672	2.0	12.067	181.26	14.39	5.259	44.5	7.983	13.471	12.083	106.7	87.6
Pgt	4068935193131233408	17 47 31.42492 −22 52 07.52102	1.2	46.023	0.51	−2.63		43.0	1.083	13.114	0	−22.9	6.6
J310160	2031-03-16 01:56:22.91	17 47 34.17876 −22 51 57.10903	1.8	11.252	181.26	14.34	5.257	41.3	9.545	14.811	13.474	64.8	87.7
Pgt	4068934441577417728	17 47 34.16087 −22 52 08.35789	1.1	42.896	0.50	−2.63		39.7		14.450	0	−22.9	5.0
J310161	2031-03-16 01:57:42.42	17 47 34.17935 −22 52 10.33165	2.4	1.968	1.27	14.34	5.257	−6.0	9.123	14.639	13.232	64.5	87.7
Pgt	4068934441577397504	17 47 34.18250 −22 52 08.36449	1.5	7.502	0.50	−2.63		−7.7	0.608	14.278	0	−22.9	5.0
J310162	2031-03-16 02:06:54.31	17 47 34.33928 −22 52 04.24669	4.0	4.165	181.26	14.34	5.257	15.4	7.905	14.641	13.084	62.2	87.7
Pgt	4068934441527285760	17 47 34.33264 −22 52 08.41033	2.4	15.877	0.50	−2.63		13.7		14.280	0	−22.9	4.9
J310163	2031-03-16 05:04:22.04	17 47 37.23709 −22 52 00.87458	1.5	8.419	181.26	14.28	5.255	30.6	9.539	13.977	12.820	17.7	87.8
Pgt	4068934475937094272	17 47 37.22373 −22 52 09.29135	0.8	32.084	0.50	−2.63		29.0	0.375	13.611	0	−22.9	3.4

Table 2 *continued on next page*

Table 2 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310164	2031-03-16 08:10:15.70	17 47 40.25118 −22 52 03.71088	3.7	6.498	181.25	14.22	5.252	23.7	8.079	14.490	12.951	331.1	87.9
Pgt	4068934402849220096	17 47 40.24090 −22 52 10.20737	2.3	24.754	0.49	−2.63		22.0		14.119	0	−22.9	2.1
J310165	2031-03-16 15:22:39.89	17 47 47.21535 −22 52 11.57407	4.3	0.737	181.24	14.08	5.248	3.4	8.119	14.964	13.376	222.7	88.2
Pgt	4068934338497938816	17 47 47.21419 −22 52 12.31101	2.6	2.805	0.48	−2.63		1.7		14.583	0	−22.9	3.6
J310166	2031-03-16 17:33:10.34	17 47 49.30313 −22 52 15.06731	1.7	2.129	1.24	14.03	5.246	−6.5	9.895	14.348	13.160	190.0	88.3
Pgt	4068934265410244480	17 47 49.30647 −22 52 12.93854	1.0	8.102	0.47	−2.63		−8.3	0.306	13.964	0	−22.9	4.8
J310167	2031-03-17 01:46:15.20	17 47 57.14968 −22 52 21.43334	2.0	6.156	1.23	13.87	5.241	−20.7	7.351	12.661	11.325	66.4	88.6
Pgt	4068887707964747776	17 47 57.15926 −22 52 15.27881	1.2	23.398	0.46	−2.63		−22.4		12.264	0	−22.9	9.4
J310168	2031-03-17 02:47:28.68	17 47 58.12923 −22 52 15.11761	1.8	0.449	181.23	13.85	5.240	2.4	9.625	14.861	13.563	51.1	88.7
Pgt	4068887677958338944	17 47 58.12854 −22 52 15.56606	1.1	1.705	0.46	−2.63		0.7	0.454	14.462	0	−22.9	10.0
J310169	2031-03-17 07:30:06.74	17 48 02.58258 −22 52 19.36276	1.7	2.481	1.22	13.76	5.237	−7.8	9.438	14.595	13.280	340.3	88.8
Pgt	4068887677958254720	17 48 02.58641 −22 52 16.88261	1.0	9.422	0.45	−2.63		−9.5	0.520	14.189	0	−22.9	12.8
J310170	2031-03-17 07:44:26.86	17 48 02.81850 −22 52 12.58339	1.9	4.367	181.22	13.75	5.237	16.1	9.190	14.466	13.140	336.7	88.8
Pgt	4068887781037474304	17 48 02.81178 −22 52 16.94897	1.2	16.584	0.45	−2.63		14.4	0.536	14.059	0	−22.9	12.9
J310171	2031-03-17 09:18:12.22	17 48 04.30600 −22 52 03.02399	3.3	14.361	181.21	13.72	5.235	54.0	7.579	13.773	12.249	313.2	88.9
Pgt	4068887574879032320	17 48 04.28406 −22 52 17.38204	2.1	54.531	0.45	−2.63		52.5		13.364	0	−22.9	13.8
J310172	2031-03-17 10:21:16.38	17 48 05.25459 −22 52 29.43549	2.5	11.766	1.22	13.70	5.235	−41.5	8.394	14.046	12.618	297.4	88.9
Pgt	4068887574878978304	17 48 05.27276 −22 52 17.67242	1.6	44.670	0.45	−2.63		−43.1		13.636	0	−22.9	14.4
J310173	2031-03-17 20:33:05.28	17 48 14.77457 −22 52 32.75272	3.2	12.305	1.21	13.50	5.228	−43.6	8.624	14.803	13.303	144.0	89.3
Pgt	4068892655933910656	17 48 14.79336 −22 52 20.45012	1.9	46.657	0.43	−2.63		−45.2		14.376	0	−22.9	20.4
J310174	2031-03-18 19:34:59.35	17 48 35.83213 −22 52 22.47397	1.7	3.994	181.17	13.05	5.212	14.7	9.204	14.232	12.948	157.7	90.2
Pgt	4068889906987970176	17 48 35.82624 −22 52 26.46742	1.0	15.100	0.39	−2.63		13.0	0.506	13.768	0	−22.9	33.9
J310175	2031-03-19 08:23:53.98	17 48 47.22402 −22 52 42.43231	1.8	12.769	1.16	12.79	5.204	−45.3	9.192	13.699	12.520	325.0	90.7
Pgt	4068889769548977024	17 48 47.24274 −22 52 29.66598	1.1	48.191	0.37	−2.63		−46.8	0.397	13.214	0	−22.9	41.4
J310176	2031-03-19 09:23:34.69	17 48 48.13099 −22 52 22.47516	2.2	7.436	181.15	12.77	5.203	26.8	9.658	11.288	10.722	310.0	90.7
Pgt	4068889769548792704	17 48 48.12022 −22 52 29.90992	1.4	28.061	0.37	−2.63		25.1	0.192	10.801	0	−22.9	42.0
J310177	2031-03-19 13:57:31.28	17 48 52.13365 −22 52 30.09759	3.1	0.924	181.14	12.68	5.200	4.1	7.955	13.853	12.413	241.4	90.9
Pgt	4068889739544925056	17 48 52.13232 −22 52 31.02183	1.8	3.486	0.36	−2.63		2.3	0.913	13.358	0	−22.9	44.7
J310178	2031-03-20 04:59:42.23	17 49 05.13872 −22 52 50.53529	2.5	15.945	1.14	12.39	5.190	−59.5	7.914	13.584	12.172	15.3	91.5
Pgt	4068890220580971392	17 49 05.16160 −22 52 34.59312	1.7	60.017	0.34	−2.63		−61.0	1.088	13.064	0	−22.9	53.5
J310179	2031-03-20 12:59:15.67	17 49 11.96514 −22 52 41.06367	1.8	4.629	1.12	12.23	5.184	−15.1	8.888	13.873	12.613	255.1	91.8
Pgt	4068890254940581504	17 49 11.97169 −22 52 36.43551	1.1	17.405	0.33	−2.62		−16.9	0.522	13.339	0	−22.9	58.1
J310180	2031-03-20 17:16:13.18	17 49 15.58471 −22 52 39.25822	2.2	1.852	1.11	12.14	5.181	−5.5	9.967	14.884	13.641	190.7	91.9
Pgt	4068878533914171392	17 49 15.58731 −22 52 37.40703	1.6	6.958	0.32	−2.62		−7.3	0.351	14.342	0	−22.9	60.6
J310181	2031-03-20 23:49:04.55	17 49 21.04508 −22 52 56.51932	3.3	17.651	1.11	12.01	5.177	−69.5	9.045	14.796	13.368	92.2	92.2
Pgt	4068878847502336128	17 49 21.06993 −22 52 38.87163	2.0	66.275	0.31	−2.62		−71.0	0.667	14.242	0	−22.9	64.4
J310182	2031-03-21 00:01:25.54	17 49 21.25624 −22 52 28.19879	4.9	10.720	181.10	12.01	5.177	38.6	7.598	14.107	12.563	89.1	92.2
Pgt	4068878847502378624	17 49 21.24140 −22 52 38.91727	3.0	40.251	0.31	−2.62		37.0		13.553	0	−22.9	64.5
J310183	2031-03-21 09:28:37.34	17 49 29.04238 −22 52 52.45590	2.3	11.471	1.10	11.82	5.170	−39.8	9.881	14.654	13.436	307.0	92.6
Pgt	4068878675703485440	17 49 29.05831 −22 52 40.98739	1.3	43.015	0.30	−2.62		−41.4	0.311	14.083	0	−22.9	70.0
J310184	2031-03-22 01:03:19.74	17 49 41.66970 −22 53 00.50980	2.1	16.224	1.09	11.51	5.160	−60.5	8.886	14.407	13.066	72.7	93.2
Pgt	4068901387499961984	17 49 41.69193 −22 52 44.28906	1.3	60.715	0.27	−2.62		−62.0		13.807	0	−22.9	79.0
J310185	2031-03-22 09:30:25.16	17 49 48.42844 −22 52 36.21458	1.8	9.811	181.06	11.34	5.154	35.1	9.646	14.234	13.062	305.6	93.5
Pgt	4068901215701181568	17 49 48.41532 −22 52 46.02406	1.0	36.676	0.26	−2.62		33.4	0.326	13.618	0	−22.9	83.8
J310186	2031-03-22 10:11:21.38	17 49 48.95876 −22 52 42.66102	4.0	3.502	181.06	11.33	5.154	12.9	8.509	14.788	13.286	295.4	93.5
Pgt	4068901215701163648	17 49 48.95406 −22 52 46.16244	2.4	13.090	0.26	−2.62		11.1		14.171	0	−22.9	84.2
J310187	2031-03-22 14:37:02.50	17 49 52.43248 −22 52 49.52230	1.9	2.468	1.06	11.24	5.151	−7.5	9.410	14.657	13.361	228.8	93.7
Pgt	4068901250060832896	17 49 52.43579 −22 52 47.05452	1.1	9.221	0.25	−2.62		−9.4	0.456	14.031	0	−22.9	86.7
J310188	2031-03-22 15:28:06.24	17 49 53.08347 −22 53 00.97827	4.0	13.756	1.07	11.22	5.150	−48.8	6.986	13.025	11.574	216.0	93.7
Pgt	4068901245744106880	17 49 53.10203 −22 52 47.22478	2.4	51.383	0.25	−2.62		−50.4		12.398	0	−22.9	87.2

Table 2 *continued on next page*

Table 2 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310189	2031-03-22 16:02:41.16	17 49 53.53256 −22 53 02.26879	2.0	14.932	1.07	11.21	5.150	−54.0	9.832	14.641	13.523	207.3	93.7
Pgt	4068901245863202560	17 49 53.55271 −22 52 47.33988	1.2	55.770	0.25	−2.62		−55.5	0.262	14.013	0	−22.9	87.5
J310190	2031-03-23 14:16:28.20	17 50 10.59073 −22 53 03.99424	1.8	12.348	1.05	10.76	5.135	−42.9	6.986	10.571	9.561	233.0	94.6
Pgt	4068898466921764224	17 50 10.60703 −22 52 51.64865	1.1	45.985	0.22	−2.62		−44.5	1.072	9.898	0	−22.9	100.0
J310191	2031-03-23 19:15:51.67	17 50 14.36022 −22 52 42.67615	1.5	9.907	181.02	10.66	5.132	35.3	9.219	13.848	12.664	158.0	94.8
Pgt	4068898501282493696	17 50 14.34741 −22 52 52.58138	0.8	36.870	0.21	−2.62		33.6	0.403	13.165	0	−22.9	102.7
J310192	2031-03-23 19:49:09.57	17 50 14.73714 −22 53 11.08775	1.4	18.406	1.04	10.65	5.131	−74.4	8.547	13.706	12.427	149.6	94.8
Pgt	4068898501281458432	17 50 14.76141 −22 52 52.68435	0.8	68.499	0.21	−2.62		−75.8	0.637	13.022	0	−22.9	103.0
J310193	2031-03-23 20:31:15.21	17 50 15.30701 −22 52 35.06212	2.6	17.755	181.02	10.64	5.131	70.6	8.950	14.750	13.363	139.1	94.8
Pgt	4068898501281479040	17 50 15.28420 −22 52 52.81429	1.4	66.068	0.21	−2.62		69.1		14.065	0	−22.9	103.4
J310194	2031-03-23 23:24:00.07	17 50 17.41872 −22 52 56.56729	4.9	3.223	1.03	10.58	5.129	−10.1	7.909	14.777	13.210	95.8	94.9
Pgt	4068897779671299456	17 50 17.42291 −22 52 53.34501	2.9	11.988	0.21	−2.62		−11.9	1.462	14.086	0	−22.9	105.0
J310195	2031-03-24 02:20:00.08	17 50 19.60415 −22 52 43.44050	2.3	10.443	181.02	10.52	5.127	37.2	9.270	14.942	13.588	51.7	95.0
Pgt	4068897779726928256	17 50 19.59074 −22 52 53.88151	1.3	38.829	0.20	−2.62		35.5	0.564	14.245	0	−22.9	106.6
J310196	2031-03-24 14:09:05.98	17 50 28.19527 −22 53 07.75986	2.8	11.761	1.02	10.29	5.119	−40.4	8.361	14.300	12.892	234.0	95.5
Pgt	4068898982317689344	17 50 28.21046 −22 52 56.00096	1.5	43.662	0.19	−2.62		−42.1	0.948	13.578	0	−22.9	113.1
J310197	2031-03-25 04:33:25.40	17 50 38.49343 −22 52 39.67750	2.0	18.821	180.99	10.00	5.109	79.3	9.211	14.554	13.246	17.3	96.1
Pgt	4068899085396835072	17 50 38.46996 −22 52 58.49583	1.1	69.741	0.17	−2.62		77.8	0.606	13.801	0	−22.9	120.8
J310198	2031-03-26 10:24:25.21	17 50 58.85293 −22 53 10.27531	1.3	6.910	0.98	9.40	5.089	−22.6	9.382	13.792	12.631	288.4	97.2
Pgt	4068710828448334208	17 50 58.86152 −22 53 03.36600	0.8	25.506	0.13	−2.62		−24.5	0.339	12.972	0	−22.9	136.6
J310199	2031-03-27 06:01:21.98	17 51 11.62761 −22 53 01.06117	1.3	5.298	180.96	9.01	5.076	18.9	8.795	13.418	12.227	353.4	98.0
Pgt	4068716497806428672	17 51 11.62118 −22 53 06.35877	0.8	19.505	0.11	−2.62		17.0		12.552	0	−22.9	146.6
J310200	2031-03-27 14:52:52.34	17 51 17.24016 −22 52 48.02981	7.4	19.631	180.94	8.83	5.070		8.476	14.992		220.2	98.3
Pt	4068716527774828032	17 51 17.21679 −22 53 07.65811	4.8	72.186	0.10	−2.62			0.803	14.105	0	−22.9	151.1
J310201	2031-03-28 04:17:13.50	17 51 25.50792 −22 52 50.62987	1.4	18.938	180.94	8.57	5.061	78.6	9.889	11.824	11.157	18.6	98.8
Pgt	4068713607167214080	17 51 25.48556 −22 53 09.56490	0.9	69.513	0.09	−2.62		77.1	0.180	10.903	0	−22.9	157.9
J310202***	2031-03-29 10:41:04.61	17 51 43.36474 −22 52 57.47719	2.7	16.160	180.92	7.96	5.041	59.8	9.744	14.968	13.662	281.5	100.0
Pgt	4068713061832895104	17 51 43.34592 −22 53 13.63510	1.5	59.080	0.05	−2.62		58.2	0.389	13.967	0	−22.9	172.8
J310203	2031-03-29 21:35:40.21	17 51 49.46513 −22 53 04.33213	3.0	10.683	180.92	7.74	5.034	37.5	8.961	14.888	13.436	117.4	100.4
Pgt	4068714466168649472	17 51 49.45268 −22 53 15.01352	1.9	38.999	0.04	−2.62		35.6		13.857	0	−22.9	177.5
J310204	2031-03-30 05:35:27.34	17 51 53.84851 −22 52 56.95533	1.9	19.045	180.91	7.58	5.028	78.4	9.453	14.810	13.483	357.2	100.8
Pgt	4068714298783362176	17 51 53.82656 −22 53 15.99789	1.2	69.454	0.04	−2.62		76.9		13.757	0	−22.9	176.9
J310205	2031-03-31 11:36:31.15	17 52 09.46971 −22 53 25.52072	2.5	6.019	0.93	6.99	5.008	−19.1	8.807	14.503	13.102	265.7	101.9
Pgt	4068702547749958784	17 52 09.47680 −22 53 19.50280	1.5	21.862	0.01	−2.61		−21.2	0.769	13.361	0	−22.9	162.8
J310206	2031-03-31 17:00:03.85	17 52 12.16835 −22 53 11.63424	3.2	8.469	180.92	6.88	5.005	29.5	8.384	14.504	13.028	184.6	102.1
Pgt	4068702719548635520	17 52 12.15855 −22 53 20.10178	2.0	30.740	0.00	−2.61		27.5		13.345	0	−22.9	160.1
J310207	2031-04-01 04:34:36.80	17 52 17.75953 −22 53 40.37290	2.8	19.018	0.95	6.65	4.997	−75.3	9.096	14.875	13.488	10.5	102.6
Pgt	4068702685188835584	17 52 17.78230 −22 53 21.35784	1.6	68.926	−0.01	−2.61		−77.0	0.693	13.679	0	−22.9	154.4
J310208	2031-04-01 23:37:49.48	17 52 26.63013 −22 53 34.15431	1.5	10.818	0.94	6.27	4.985	−35.6	8.991	14.219	12.922	84.0	103.4
Pgt	4068701963634270848	17 52 26.64298 −22 53 23.33802	1.0	39.108	−0.02	−2.61		−37.7		12.960	0	−22.9	145.0
J310209	2031-04-02 00:18:36.31	17 52 26.97364 −22 53 02.57921	2.0	20.830	180.90	6.26	4.984		3.977	8.392	7.166	73.8	103.4
P	4068702062295135104	17 52 26.94989 −22 53 23.40670	1.2	75.298	−0.02	−2.61			5.256	7.131	0	−22.9	144.6
J310210	2031-04-02 08:06:06.12	17 52 30.44083 −22 53 08.61299	6.4	15.574	180.91	6.11	4.979	56.2	8.787	14.860	13.370	316.6	103.7
Pgt	4070203209299434496	17 52 30.42292 −22 53 24.18477	4.1	56.239	−0.03	−2.61		54.4	0.740	13.572	0	−22.9	140.7
J310211	2031-04-02 22:58:18.83	17 52 36.80721 −22 53 37.08775	2.2	11.465	0.95	5.81	4.969	−37.9	9.194	14.690	13.320	93.0	104.3
Pgt	4070202998748362240	17 52 36.82097 −22 53 25.62403	1.3	41.322	−0.04	−2.61		−39.9	0.507	13.348	0	−22.9	133.2
J310212	2031-04-04 02:54:20.33	17 52 48.00074 −22 53 46.90404	3.5	18.738	0.98	5.26	4.951	−71.4	9.114	14.990	13.561	32.8	105.4
Pgt	4070200043810737024	17 52 48.02386 −22 53 28.16914	2.1	67.284	−0.06	−2.61		−73.2		13.541	0	−22.9	118.8
J310213	2031-04-04 05:47:40.43	17 52 49.14061 −22 53 11.87599	1.7	16.547	180.93	5.21	4.949	60.3	9.238	14.418	13.144	349.4	105.5
Pgt	4070200082548880896	17 52 49.12120 −22 53 28.42105	1.0	59.396	−0.06	−2.61		58.5	0.446	12.957	0	−22.9	117.3

Table 2 *continued on next page*

Table 2 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310214	2031-04-04 16:34:24.83	17 52 53.13420 −22 53 12.59224	1.9	16.753	180.94	5.00	4.942	61.2	7.470	12.762	11.459	187.3	105.9
Pgt	4070200460505979008	17 52 53.11437 −22 53 29.34325	1.2	60.051	−0.07	−2.61		59.4	1.041	11.256	0	−22.9	111.6
J310215	2031-04-05 00:30:08.82	17 52 55.94041 −22 53 37.68089	5.2	7.678	0.98	4.84	4.937	−24.3	4.807	11.483	9.945	68.0	106.2
Pgt	4070200249968817792	17 52 55.94993 −22 53 30.00383	3.1	27.493	−0.08	−2.61		−26.6	6.508	9.943	1	−22.9	107.3
J310216	2031-04-15 16:54:33.74	17 53 40.37207 −22 53 48.53391	4.4	3.504	339.50	−0.12	4.776	−5.6	7.572	14.979	13.364	171.6	116.6
Pgt	4070154006130346112	17 53 40.28328 −22 53 45.25167	2.9	12.137	−0.16	−2.61		−17.8		9.397	0	−22.9	42.0
J310217	2031-04-22 07:19:16.14	17 53 21.09948 −22 54 00.31793	2.2	9.663	359.52	−3.05	4.683	−30.1	9.210	14.959	13.595	308.8	123.1
Pgt	4070200731005144576	17 53 21.09364 −22 53 50.65525	1.5	32.818	−0.12	−2.61		−30.9	0.561	12.916	0	−22.9	130.0
J310218	2031-04-25 20:54:48.13	17 52 55.94041 −22 53 37.68078	4.9	14.726	179.85	−4.56	4.635	47.6	4.807	11.483	9.945	101.3	126.7
Pgt	4070200249968817792	17 52 55.94324 −22 53 52.40699	2.9	49.504	−0.08	−2.61		47.4	6.110	9.878	1	−22.9	173.5
J310219	2031-04-26 18:28:10.58	17 52 48.00071 −22 53 46.90456	3.3	5.783	179.88	−4.93	4.623	17.9	9.114	14.990	13.561	137.1	127.6
Pgt	4070200043810737024	17 52 48.00156 −22 53 52.68790	2.0	19.393	−0.06	−2.61		17.8		13.470	0	−22.9	174.9
J310220	2031-04-27 22:16:31.05	17 52 36.80719 −22 53 37.08843	2.0	15.853	179.95	−5.41	4.608	51.4	9.194	14.690	13.320	78.8	128.7
Pgt	4070202998748362240	17 52 36.80818 −22 53 52.94191	1.2	52.989	−0.04	−2.61		51.4	0.470	13.270	0	−22.9	161.5
J310221	2031-04-28 21:32:26.11	17 52 26.63015 −22 53 34.15467	1.4	18.899	179.99	−5.80	4.596	64.6	8.991	14.219	12.922	88.8	129.7
Pgt	4068701963634270848	17 52 26.63028 −22 53 53.05352	0.9	63.000	−0.02	−2.61		64.6		12.875	0	−22.9	150.0
J310222	2031-04-28 21:57:12.65	17 52 26.44298 −22 53 53.94949	3.7	0.895	359.98	−5.81	4.596	−2.7	7.556	13.968	12.442	82.6	129.7
Pgt	4068701963634259072	17 52 26.44295 −22 53 53.05463	2.3	2.983	−0.02	−2.61		−2.7		12.625	0	−22.9	149.8
J310223	2031-04-29 16:34:05.39	17 52 17.75952 −22 53 40.37327	2.5	12.699	180.02	−6.12	4.586	39.8	9.096	14.875	13.488	162.6	130.5
Pgt	4068702685188835584	17 52 17.75921 −22 53 53.07265	1.5	42.242	−0.01	−2.61		39.8	0.636	13.588	0	−22.9	140.6
J310224	2031-04-30 20:08:25.58	17 52 04.03940 −22 54 01.67298	7.0	8.698	0.04	−6.57	4.572	−26.7	7.510	14.873	13.134	107.8	131.7
Pgt	4068702508974726528	17 52 04.03988 −22 53 52.97468	4.5	28.844	0.02	−2.61		−26.7	1.759	13.664	0	−22.9	126.6
J310225	2031-05-01 15:30:59.16	17 51 53.79170 −22 53 58.95777	3.1	6.145	0.08	−6.88	4.562	−18.8	8.989	14.906	13.450	176.3	132.5
Pgt	4068714195705048832	17 51 53.79229 −22 53 52.81281	1.9	20.334	0.04	−2.61		−18.7		13.748	0	−22.9	116.6
J310226	2031-05-01 17:09:16.30	17 51 52.90418 −22 53 44.65440	1.3	8.141	180.09	−6.91	4.562	24.8	8.711	13.954	12.657	151.7	132.6
Pgt	4068714264424528768	17 51 52.90326 −22 53 52.79534	0.8	26.934	0.04	−2.61		24.9	0.497	12.799	0	−22.9	115.8
J310227	2031-05-01 23:13:45.09	17 51 49.57580 −22 53 50.13358	1.7	2.592	180.09	−7.00	4.559	7.8	6.808	11.962	10.640	60.3	132.8
Pgt	4068712782541394560	17 51 49.57549 −22 53 52.72520	1.0	8.568	0.04	−2.61		7.9	1.324	10.823	0	−22.9	112.6
J310228	2031-05-02 03:20:32.76	17 51 47.29586 −22 53 42.51204	1.2	10.161	180.11	−7.07	4.557	31.2	8.869	13.407	12.230	358.4	133.0
Pgt	4068712993079920512	17 51 47.29449 −22 53 52.67289	0.8	33.579	0.05	−2.61		31.3		12.278	0	−22.9	110.4
J310229	2031-05-02 21:21:41.74	17 51 37.04214 −22 53 37.27619	1.5	15.122	180.14	−7.35	4.548	47.8	9.430	14.605	13.310	87.4	133.8
Pgt	4068713675889698432	17 51 37.03955 −22 53 52.39785	0.9	49.875	0.07	−2.61		48.0	0.392	13.519	0	−22.9	100.8
J310230	2031-05-03 09:59:26.94	17 51 29.60055 −22 53 50.05704	1.3	2.102	180.14	−7.55	4.541	6.3	9.014	13.589	12.404	257.4	134.3
Pgt	4068713332297215616	17 51 29.60017 −22 53 52.15875	0.7	6.923	0.08	−2.61		6.4	0.386	12.532	0	−22.9	93.9
J310231	2031-05-04 01:17:02.36	17 51 20.31024 −22 54 09.51858	2.0	17.704	0.15	−7.79	4.534	−57.9	9.389	14.832	13.484	27.3	135.0
Pgt	4068713474149412096	17 51 20.31363 −22 53 51.81482	1.2	58.217	0.10	−2.61		−57.8	0.464	13.809	0	−22.9	85.5
J310232	2031-05-04 21:11:20.41	17 51 07.77670 −22 53 35.61888	1.0	15.658	180.20	−8.10	4.524	49.5	9.283	12.630	11.659	87.9	135.8
Pgt	4068716459025498880	17 51 07.77271 −22 53 51.27709	0.6	51.382	0.12	−2.61		49.7	0.258	11.648	0	−22.9	74.2
J310233	2031-05-05 07:57:07.68	17 51 00.77996 −22 53 54.61017	2.7	3.668	0.20	−8.26	4.519	−11.1	7.645	13.824	12.342	285.9	136.3
Pgt	4068710755316861440	17 51 00.78090 −22 53 50.94199	1.8	12.024	0.13	−2.61		−10.9	1.202	12.863	0	−22.9	67.9
J310234	2031-05-05 12:22:23.53	17 50 57.86207 −22 54 06.68638	3.1	15.892	0.20	−8.33	4.517	−50.4	8.543	14.676	13.206	219.4	136.5
Pgt	4068710725369086976	17 50 57.86612 −22 53 50.79491	2.0	52.065	0.14	−2.61		−50.3		13.725	0	−22.9	65.3
J310235	2031-05-05 13:47:16.80	17 50 56.93046 −22 53 42.15507	1.6	8.592	180.22	−8.35	4.517	25.9	8.617	14.236	12.893	198.1	136.5
Pgt	4068710725369113856	17 50 56.92808 −22 53 50.74668	1.0	28.145	0.14	−2.61		26.1	0.674	13.287	0	−22.9	64.5

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

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

Table 3. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K ≤ 10 (part 3 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310236	2031-05-05 15:41:06.11	17 50 55.67289 −22 53 28.08669	7.5	22.595	180.23	−8.38	4.516		5.037	14.241	12.509	169.6	136.6
P	4068711481245506432	17 50 55.66629 −22 53 50.68111	4.6	74.001	0.14	−2.61			8.652	13.297	0	−22.9	63.4
J310237	2031-05-05 19:19:51.06	17 50 53.22427 −22 54 05.99302	2.8	15.441	0.21	−8.43	4.514	−48.7	8.385	14.509	13.032	114.8	136.8
Pgt	4068711446923639552	17 50 53.22840 −22 53 50.55225	1.7	50.552	0.14	−2.61		−48.6	1.086	13.571	0	−22.9	61.3
J310238	2031-05-06 05:52:57.78	17 50 46.08046 −22 53 40.37383	3.0	9.784	180.24	−8.59	4.509	29.6	8.945	14.993	13.529	316.0	137.2
Pgt	4068711137686084224	17 50 46.07747 −22 53 50.15816	1.8	31.998	0.16	−2.61		29.8	0.695	14.075	0	−22.9	55.0
J310239	2031-05-06 07:34:13.53	17 50 44.92085 −22 53 49.61041	1.7	0.482	180.24	−8.62	4.508	1.4	9.658	14.920	13.618	290.6	137.3
Pgt	4068711339432437120	17 50 44.92071 −22 53 50.09218	1.0	1.575	0.16	−2.61		1.5	0.373	14.005	0	−22.9	54.0
J310240	2031-05-07 13:31:58.90	17 50 23.79594 −22 53 37.03675	1.8	11.742	180.28	−9.06	4.495	35.7	9.026	14.594	13.263	199.9	138.6
Pgt	4068897711007383552	17 50 23.79173 −22 53 48.77861	1.1	38.277	0.20	−2.61		35.9	0.574	13.734	0	−22.9	35.9
J310241	2031-05-07 20:37:18.25	17 50 18.63271 −22 53 37.79775	1.2	10.630	180.29	−9.16	4.491	32.2	9.352	12.891	11.905	93.2	138.9
Pgt	4068897741007808000	17 50 18.62879 −22 53 48.42743	0.7	34.627	0.21	−2.61		32.3	0.254	12.043	0	−22.9	31.5
J310242	2031-05-09 04:19:28.73	17 49 54.78100 −22 53 57.68399	2.4	11.024	0.32	−9.62	4.477	−33.5	8.301	14.149	12.753	336.3	140.3
Pgt	4068898192043999232	17 49 54.78549 −22 53 46.65992	1.4	35.799	0.25	−2.61		−33.3	0.968	13.354	0	−22.9	12.1
J310243	2031-05-09 16:11:19.14	17 49 45.54068 −22 54 02.43744	3.7	16.526	0.34	−9.78	4.472	−52.2	8.458	14.819	13.318	157.8	140.8
Pgt	4068901181341378816	17 49 45.54767 −22 53 45.91158	2.3	53.604	0.27	−2.61		−52.1	0.815	14.043	0	−22.9	5.0
J310244	2031-05-09 20:49:05.62	17 49 41.89827 −22 53 42.18169	2.5	3.425	180.35	−9.85	4.470	10.1	6.479	11.975	10.604	88.2	141.0
Pgt	4068877915467340672	17 49 41.89675 −22 53 45.60649	1.6	11.104	0.27	−2.61		10.3		11.206	0	−22.9	2.7
J310245	2031-05-09 23:31:25.52	17 49 39.75759 −22 53 31.51994	5.1	13.905	180.36	−9.89	4.469	42.6	7.993	14.964	13.370	47.4	141.1
Pgt	4068877915438787456	17 49 39.75127 −22 53 45.42473	3.1	45.070	0.28	−2.61		42.8		14.199	0	−22.9	2.1
J310246	2031-05-10 01:29:34.32	17 49 38.19200 −22 53 28.46497	1.5	16.826	180.36	−9.91	4.468	53.2	8.036	13.478	12.151	17.8	141.2
Pgt	4068877919789000192	17 49 38.18427 −22 53 45.29083	0.9	54.528	0.28	−2.61		53.3	0.745	12.716	0	−22.9	2.5
J310247	2031-05-10 07:33:58.87	17 49 33.32539 −22 53 37.39127	4.7	7.478	180.37	−10.00	4.466	22.2	8.252	14.886	13.329	286.5	141.4
Pgt	4068877954148818944	17 49 33.32192 −22 53 44.86907	2.7	24.219	0.29	−2.61		22.4		14.133	0	−22.9	5.4
J310248	2031-05-10 19:59:23.32	17 49 23.24973 −22 53 21.25358	2.2	22.711	180.39	−10.17	4.460		9.634	14.790	13.516	99.5	142.0
Pt	4068878641343818240	17 49 23.23850 −22 53 43.96423	1.2	73.470	0.31	−2.61				14.056	0	−22.9	12.8
J310249	2031-05-11 03:05:04.55	17 49 17.39476 −22 53 47.98254	4.3	4.561	0.39	−10.27	4.457	−13.6	8.570	14.932	13.391	352.8	142.3
Pgt	4068878435185468928	17 49 17.39699 −22 53 43.42180	2.7	14.744	0.32	−2.61		−13.5		14.208	0	−22.9	17.1
J310250	2031-05-11 04:46:05.49	17 49 16.00232 −22 53 42.55014	3.3	0.740	180.39	−10.29	4.457	2.1	8.449	14.689	13.191	327.5	142.4
Pgt	4068878430995951872	17 49 16.00195 −22 53 43.29034	2.0	2.393	0.32	−2.61		2.3	0.886	13.968	0	−22.9	18.1
J310251	2031-05-11 07:46:31.10	17 49 13.49255 −22 54 02.07099	1.6	19.018	0.39	−10.33	4.455	−62.4	9.315	14.361	13.107	282.2	142.5
Pgt	4068878400825791104	17 49 13.50184 −22 53 43.05293	1.0	61.456	0.32	−2.61		−62.2	0.395	13.644	0	−22.9	19.9
J310252	2031-05-11 09:24:45.51	17 49 12.12710 −22 54 01.11027	2.1	18.188	0.39	−10.36	4.455	−58.6	9.843	14.921	13.645	257.6	142.6
Pgt	4068878400825820800	17 49 12.13605 −22 53 42.92225	1.3	58.765	0.33	−2.61		−58.5	0.304	14.206	0	−22.9	20.9
J310253	2031-05-11 11:33:35.96	17 49 10.33089 −22 54 01.18620	3.1	18.437	0.39	−10.39	4.454	−59.7	8.712	14.431	12.999	225.3	142.7
Pgt	4068878396475087872	17 49 10.34002 −22 53 42.74936	2.2	59.557	0.33	−2.61		−59.6	0.672	13.719	0	−22.9	22.2
J310254	2031-05-11 16:45:25.83	17 49 05.96681 −22 53 49.97745	1.2	7.654	0.40	−10.46	4.452	−22.9	8.680	13.189	12.026	147.1	142.9
Pgt	4068890117501641600	17 49 05.97072 −22 53 42.32376	0.8	24.712	0.34	−2.61		−22.7	0.423	12.485	0	−22.9	25.3
J310255	2031-05-11 20:59:30.24	17 49 02.39747 −22 53 23.00191	4.1	18.968	180.42	−10.51	4.450	61.9	7.998	14.646	13.102	83.4	143.1
Pgt	4068890186221236224	17 49 02.38737 −22 53 41.96942	2.6	61.217	0.34	−2.61		62.0	0.634	13.948	0	−22.9	27.9
J310256*	2031-05-11 21:42:16.97	17 49 01.78496 −22 53 36.24988	4.3	5.659	180.42	−10.52	4.450	16.7	9.375	14.677	13.353	72.7	143.1
Pgt	4068890181865402496	17 49 01.78199 −22 53 41.90909	2.8	18.264	0.34	−2.61		16.9	0.398	13.980	0	−22.9	28.3
J310257	2031-05-11 23:42:57.47	17 49 00.07049 −22 53 42.82086	5.6	1.083	0.42	−10.55	4.449	−3.3	8.074	14.977	13.357	42.4	143.2
Pgt	4068888910555087616	17 49 00.07106 −22 53 41.73781	3.3	3.495	0.35	−2.61		−3.1		14.283	0	−22.9	29.5
J310258	2031-05-12 03:45:14.90	17 48 56.61520 −22 53 53.74426	2.0	12.355	0.42	−10.60	4.447	−37.5	9.739	14.937	13.653	341.7	143.4
Pgt	4068888880551248256	17 48 56.62169 −22 53 41.38915	1.2	39.851	0.35	−2.61		−37.3	0.366	14.248	0	−22.9	32.0
J310259	2031-05-12 09:54:57.29	17 48 51.31954 −22 53 45.04117	4.2	4.197	0.43	−10.69	4.445	−12.5	8.294	14.912	13.353	249.0	143.6
Pgt	4068888949270841600	17 48 51.32181 −22 53 40.84467	2.5	13.528	0.36	−2.61		−12.3		14.231	0	−22.9	35.6

Table 3 *continued on next page*

Table 3 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310260	2031-05-12 23:52:44.25	17 48 39.15690 −22 53 24.42696	3.6	15.128	180.46	−10.87	4.439	46.5	8.551	14.915	13.386	38.9	144.2
Pgt	4068889464667188608	17 48 39.14820 −22 53 39.55441	2.2	48.704	0.39	−2.61		46.7		14.253	0	−22.9	43.9
J310261	2031-05-13 01:12:15.54	17 48 37.98726 −22 53 28.42951	1.9	10.999	180.46	−10.89	4.438	32.9	8.867	14.389	13.030	19.0	144.3
Pgt	4068889464667206400	17 48 37.98094 −22 53 39.42786	1.2	35.405	0.39	−2.61		33.1	0.656	13.729	0	−22.9	44.7
J310262	2031-05-13 06:18:11.10	17 48 33.45972 −22 53 59.82699	2.2	20.893	0.45	−10.96	4.436	−72.2	8.809	14.462	13.064	302.2	144.5
Pgt	4068889430308695040	17 48 33.47155 −22 53 38.93440	1.3	67.226	0.40	−2.61		−72.1	0.654	13.809	0	−22.9	47.7
J310263*	2031-05-13 07:07:13.25	17 48 32.75968 −22 53 15.68211	3.3	23.173	180.47	−10.97	4.436		9.721	14.907	13.547	290.0	144.6
P	4068889494678347648	17 48 32.74599 −22 53 38.85432	1.9	74.556	0.40	−2.61			0.351	14.255	0	−22.9	48.2
J310264*	2031-05-13 11:29:20.04	17 48 28.86020 −22 53 29.19860	16.0	9.223	180.47	−11.03	4.434	27.4	9.501	14.974	13.530	224.2	144.7
Pgt	4068892346529274624	17 48 28.85475 −22 53 38.42166	9.2	29.663	0.40	−2.61		27.5	0.428	14.327	0	−22.9	50.7
J310265	2031-05-13 14:24:48.95	17 48 26.23542 −22 53 41.72061	1.7	3.593	0.47	−11.06	4.433	−10.7	9.850	14.969	13.710	180.2	144.9
Pgt	4068892350885442176	17 48 26.23753 −22 53 38.12758	1.0	11.553	0.41	−2.61		−10.5	0.322	14.326	0	−22.9	52.4
J310266*	2031-05-13 23:29:58.24	17 48 18.03833 −22 53 48.82637	2.5	11.636	0.48	−11.18	4.430	−35.0	9.945	14.466	13.280	43.5	145.3
Pgt	4068886505373730304	17 48 18.04531 −22 53 37.19098	1.5	37.382	0.42	−2.61		−34.9	0.245	13.835	0	−22.9	57.7
J310267	2031-05-14 02:10:13.86	17 48 15.61864 −22 53 38.02220	1.3	1.113	0.48	−11.22	4.429	−3.3	9.339	14.078	12.865	3.3	145.4
Pgt	4068886715885252096	17 48 15.61932 −22 53 36.90891	0.8	3.576	0.43	−2.61		−3.2	0.350	13.450	0	−22.9	59.3
J310268	2031-05-14 07:41:43.08	17 48 10.56129 −22 54 00.07815	1.0	23.763	0.48	−11.29	4.426		8.676	10.600	9.948	280.2	145.6
Pt	4068886750245047424	17 48 10.57576 −22 53 36.31561	0.6	76.288	0.44	−2.61			0.298	9.979	0	−22.9	62.5
J310269	2031-05-14 09:55:57.91	17 48 08.52894 −22 53 27.22948	2.7	8.842	180.50	−11.32	4.426	26.2	8.216	14.388	12.864	246.6	145.7
Pgt	4068886750245122048	17 48 08.52337 −22 53 36.07154	1.6	28.381	0.44	−2.61		26.3	1.013	13.770	0	−22.9	63.7
J310270	2031-05-14 10:54:58.48	17 48 07.61296 −22 53 46.39266	1.5	10.429	0.49	−11.33	4.425	−31.2	9.989	14.717	13.503	231.8	145.8
Pgt	4068886647165895424	17 48 07.61944 −22 53 35.96356	0.9	33.473	0.44	−2.61		−31.1		14.100	0	−22.9	64.3
J310271	2031-05-14 12:40:49.37	17 48 05.99835 −22 53 30.90069	1.5	4.868	180.50	−11.35	4.424	14.3	9.614	14.659	13.369	205.2	145.8
Pgt	4068887403080190464	17 48 05.99528 −22 53 35.76883	0.9	15.622	0.44	−2.61		14.4	0.393	14.044	0	−22.9	65.3
J310272*	2031-05-14 17:39:30.18	17 48 01.38302 −22 53 51.65636	1.7	16.445	0.50	−11.42	4.423	−51.2	9.385	14.329	13.048	130.3	146.1
Pgt	4068887368720507008	17 48 01.39338 −22 53 35.21199	1.0	52.748	0.45	−2.61		−51.1	0.404	13.720	0	−22.9	68.2
J310273	2031-05-14 20:06:42.31	17 47 59.10476 −22 53 51.35013	1.7	16.417	0.50	−11.45	4.422	−51.1	8.406	13.921	12.528	93.4	146.2
Pgt	4068887437440022272	17 47 59.11517 −22 53 34.93357	1.1	52.647	0.46	−2.61		−51.0	0.716	13.315	0	−22.9	69.6
J310274*	2031-05-15 00:45:17.98	17 47 54.78092 −22 53 40.95023	1.9	6.551	0.51	−11.51	4.420	−19.4	9.447	13.764	12.625	23.6	146.4
Pgt	4068887265641418752	17 47 54.78516 −22 53 34.39943	1.2	21.000	0.46	−2.61		−19.3	0.273	13.164	0	−22.9	72.2
J310275	2031-05-15 01:23:26.94	17 47 54.19695 −22 53 24.29757	1.2	10.028	180.52	−11.51	4.420	29.8	9.495	14.108	12.929	14.0	146.4
Pgt	4068887265641452672	17 47 54.19038 −22 53 34.32555	0.8	32.145	0.47	−2.61		29.9	0.283	13.508	0	−22.9	72.6
J310276	2031-05-15 04:09:39.59	17 47 51.58672 −22 53 44.93510	2.2	10.934	0.51	−11.55	4.419	−32.7	8.839	14.562	13.135	332.3	146.5
Pgt	4068887231281727360	17 47 51.59384 −22 53 34.00158	1.3	35.039	0.47	−2.61		−32.6		13.965	0	−22.9	74.1
J310277	2031-05-15 09:48:54.58	17 47 46.25873 −22 53 47.58672	1.1	14.258	0.52	−11.62	4.416	−43.4	9.080	13.813	12.605	247.3	146.8
Pgt	4068887192568516352	17 47 46.26813 −22 53 33.32967	0.7	45.668	0.48	−2.61		−43.3	0.369	13.223	0	−22.9	77.3
J310278	2031-05-15 16:28:34.72	17 47 39.93377 −22 53 56.11818	1.4	23.600	0.53	−11.70	4.414		9.618	14.623	13.324	147.0	147.1
Pt	4068934093611448704	17 47 39.94950 −22 53 32.51941	0.9	75.549	0.49	−2.61			0.361	14.041	0	−22.9	81.0
J310279	2031-05-15 21:18:05.07	17 47 35.35692 −22 53 11.23966	1.4	20.681	180.55	−11.76	4.412	70.0	8.334	12.734	11.581	74.4	147.3
Pgt	4068934372857812224	17 47 35.34254 −22 53 31.91959	0.8	66.178	0.50	−2.61		70.1	0.464	12.158	0	−22.9	83.7
J310280	2031-05-15 22:43:05.39	17 47 33.98591 −22 53 30.48413	4.0	1.257	180.54	−11.78	4.412	3.6	7.346	14.543	12.873	53.1	147.3
Pgt	4068932891020578688	17 47 33.98505 −22 53 31.74138	2.5	4.023	0.50	−2.61		3.7		13.968	0	−22.9	84.5
J310281	2031-05-16 01:24:31.21	17 47 31.40551 −22 53 25.06794	2.1	6.333	180.55	−11.81	4.411	18.6	9.391	14.906	13.501	12.6	147.5
Pgt	4068932964108593408	17 47 31.40110 −22 53 31.40035	1.3	20.257	0.51	−2.61		18.7		14.334	0	−22.9	86.0
J310282	2031-05-16 04:22:51.99	17 47 28.54108 −22 53 25.59765	1.6	5.422	180.56	−11.85	4.409	15.9	7.669	12.837	11.499	327.9	147.6
Pgt	4068932929748903296	17 47 28.53728 −22 53 31.01957	1.0	17.340	0.51	−2.61		16.0	0.792	12.269	0	−22.9	87.7
J310283	2031-05-16 11:07:03.14	17 47 22.02725 −22 53 08.48987	2.1	21.652	180.57	−11.93	4.407	76.9	9.154	14.675	13.272	226.6	147.9
Pgt	4068933651303556352	17 47 22.01164 −22 53 30.14106	1.3	69.206	0.52	−2.61		77.0	0.502	14.114	0	−22.9	91.4
J310284	2031-05-16 16:56:09.73	17 47 16.34133 −22 53 22.02091	2.0	7.344	180.57	−12.00	4.405	21.6	9.150	14.661	13.238	139.0	148.1
Pgt	4068933616895171200	17 47 16.33601 −22 53 29.36483	1.2	23.463	0.53	−2.61		21.7	0.404	14.107	0	−22.9	94.6

Table 3 *continued on next page*

Table 3 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310285	2031-05-16 21:39:30.49	17 47 11.71023 −22 53 19.02085	1.1	9.703	180.58	−12.06	4.403	28.7	9.447	13.037	12.026	68.0	148.3
Pgt	4068933440784563200	17 47 11.70311 −22 53 28.72288	0.7	30.984	0.54	−2.61		28.8	0.236	12.488	0	−22.9	97.2
J310286	2031-05-16 23:13:14.27	17 47 10.16210 −22 53 33.02782	2.4	4.520	0.58	−12.08	4.403	−13.3	5.739	11.042	9.679	44.5	148.4
Pgt	4068933410786852736	17 47 10.16540 −22 53 28.50815	1.4	14.432	0.55	−2.61		−13.2	2.412	10.494	0	−22.9	98.0
J310287	2031-05-17 02:23:43.51	17 47 07.02315 −22 53 40.72288	3.8	12.655	0.58	−12.11	4.401	−38.0	7.244	14.318	12.640	356.7	148.5
Pgt	4068933475136113792	17 47 07.03243 −22 53 28.06808	2.3	40.399	0.55	−2.61		−37.9		13.774	0	−22.9	99.8
J310288	2031-05-17 07:02:10.85	17 47 02.43733 −22 53 22.58475	1.9	4.831	180.59	−12.17	4.400	14.1	9.657	14.896	13.535	286.9	148.8
Pgt	4068936331364699264	17 47 02.43371 −22 53 27.41581	1.1	15.417	0.56	−2.61		14.2	0.425	14.356	0	−22.9	102.3
J310289	2031-05-17 09:28:02.70	17 47 00.01092 −22 53 33.58580	1.2	6.516	0.59	−12.20	4.399	−19.2	9.240	13.554	12.418	250.3	148.9
Pgt	4068936326994428672	17 47 00.01580 −22 53 27.06984	0.7	20.789	0.56	−2.61		−19.1	0.306	13.017	0	−22.9	103.6
J310290	2031-05-17 10:36:59.36	17 46 58.85335 −22 53 50.37346	2.1	23.469	0.59	−12.21	4.398		9.559	14.971	13.538	233.0	148.9
Pt	4068936292778387072	17 46 58.87080 −22 53 26.90527	1.2	74.869	0.57	−2.61			0.329	14.435	0	−22.9	104.2
J310291	2031-05-17 11:59:01.25	17 46 57.51078 −22 53 21.29669	1.5	5.412	180.60	−12.23	4.398	15.8	8.487	13.786	12.436	212.5	149.0
Pgt	4068936365724490496	17 46 57.50667 −22 53 26.70859	0.8	17.263	0.57	−2.61		15.9	0.636	13.252	0	−22.9	105.0
J310292*	2031-05-17 12:18:03.05	17 46 57.20346 −22 53 08.96989	7.5	17.694	180.61	−12.23	4.398	55.5	9.579	14.191	12.882	207.7	149.0
Pgt	4068936361499921152	17 46 57.18994 −22 53 26.66283	4.1	56.437	0.57	−2.61		55.6	0.241	13.657	0	−22.9	105.2
J310293	2031-05-17 15:03:34.23	17 46 54.41296 −22 53 49.71581	2.7	23.454	0.60	−12.26	4.397		8.332	14.372	12.851	166.2	149.1
Pt	4068842529258966656	17 46 54.43060 −22 53 26.26263	1.6	74.794	0.57	−2.61				13.841	0	−22.9	106.7
J310294	2031-05-17 17:58:55.15	17 46 51.48757 −22 53 40.50816	1.1	14.675	0.60	−12.30	4.396	−44.6	8.995	12.791	11.753	122.2	149.2
Pgt	4068842735468312448	17 46 51.49874 −22 53 25.83442	0.6	46.785	0.58	−2.61		−44.5	0.293	12.263	0	−22.9	108.2
J310295	2031-05-17 21:00:00.09	17 46 48.45845 −22 53 29.54085	1.8	4.153	0.61	−12.33	4.395	−12.2	9.859	14.831	13.472	76.8	149.4
Pgt	4068842769777219200	17 46 48.46165 −22 53 25.38760	1.1	13.239	0.58	−2.61		−12.1	0.303	14.306	0	−22.9	109.9
J310296	2031-05-17 22:51:42.18	17 46 46.56763 −22 53 45.72581	2.8	20.617	0.61	−12.35	4.394	−69.2	7.574	13.538	12.056	48.8	149.5
Pgt	4068842769828094848	17 46 46.58347 −22 53 25.10964	1.7	65.706	0.59	−2.61		−69.2		13.015	0	−22.9	110.9
J310297	2031-05-18 05:53:49.45	17 46 39.43753 −22 53 44.06240	2.6	20.020	0.62	−12.44	4.392	−65.9	8.822	14.565	13.111	303.0	149.8
Pgt	4068843418336222208	17 46 39.45318 −22 53 24.04311	1.6	63.768	0.60	−2.61		−65.8		14.050	0	−22.9	114.6
J310298	2031-05-18 06:20:19.76	17 46 38.98809 −22 53 43.99537	2.3	20.021	0.62	−12.44	4.391	−65.9	7.188	12.688	11.280	296.3	149.8
Pgt	4068843383911110400	17 46 39.00376 −22 53 23.97529	1.4	63.768	0.60	−2.61		−65.8	1.164	12.172	0	−22.9	114.9
J310299	2031-05-18 07:10:14.10	17 46 38.16089 −22 53 18.94979	1.2	4.898	180.63	−12.45	4.391	14.3	9.259	13.424	12.312	283.8	149.8
Pgt	4068843491382706816	17 46 38.15700 −22 53 23.84733	0.7	15.599	0.60	−2.61		14.3	0.310	12.909	0	−22.9	115.3
J310300	2031-05-18 16:09:53.70	17 46 28.96717 −22 53 07.94197	1.9	14.500	180.64	−12.55	4.388	43.8	9.575	14.467	13.193	148.5	150.2
Pgt	4068843349552073856	17 46 28.95536 −22 53 22.44083	1.1	46.146	0.62	−2.61		43.9	0.321	13.961	0	−22.9	120.1
J310301	2031-05-19 00:15:47.66	17 46 20.58735 −22 53 37.38814	1.7	16.251	0.65	−12.65	4.385	−49.9	9.830	14.630	13.388	26.6	150.6
Pgt	4068854967539260416	17 46 20.60064 −22 53 21.13840	1.0	51.686	0.63	−2.61		−49.9	0.301	14.132	0	−22.9	124.4
J310302	2031-05-19 01:19:01.03	17 46 19.52535 −22 53 01.06489	3.2	19.903	180.66	−12.66	4.385	65.1	8.344	14.286	12.805	10.8	150.6
Pgt	4068855036258807808	17 46 19.50876 −22 53 20.96638	1.9	63.296	0.64	−2.61		65.1		13.789	0	−22.9	125.0
J310303	2031-05-19 01:56:01.71	17 46 18.88580 −22 53 00.80772	1.9	20.059	180.66	−12.66	4.385	65.9	9.751	14.857	13.552	1.5	150.6
Pgt	4068855031862470272	17 46 18.86905 −22 53 20.86540	1.2	63.790	0.64	−2.61		65.9	0.329	14.361	0	−22.9	125.3
J310304	2031-05-19 05:18:29.98	17 46 15.37325 −22 53 07.87209	1.2	12.438	180.66	−12.70	4.384	37.1	8.626	13.178	11.999	310.7	150.8
Pgt	4068854997502729344	17 46 15.36282 −22 53 20.30939	0.7	39.544	0.64	−2.61		37.1	0.405	12.685	0	−22.9	127.1
J310305**	2031-05-19 15:00:26.47	17 46 05.22511 −22 53 15.40509	3.4	3.272	180.68	−12.81	4.380	9.5	9.941	14.185	13.031	164.8	151.2
Pgt	4068853764899696768	17 46 05.22232 −22 53 18.67683	2.1	10.395	0.66	−2.61		9.5	0.229	13.701	0	−22.9	132.2
J310306	2031-05-19 22:01:45.48	17 45 57.81662 −22 53 24.31021	4.0	6.848	0.68	−12.89	4.378	−20.0	8.255	14.726	13.186	59.1	151.5
Pgt	4068854417783854336	17 45 57.82253 −22 53 17.46269	2.3	21.744	0.67	−2.61		−20.0		14.249	0	−22.9	135.8
J310307	2031-05-19 23:18:30.38	17 45 56.45162 −22 53 37.80839	1.1	20.571	0.68	−12.90	4.378	−68.5	9.983	12.098	11.391	39.9	151.6
Pgt	4068854379026923008	17 45 56.46932 −22 53 17.23861	0.7	65.312	0.68	−2.61		−68.5	0.147	11.622	0	−22.9	136.5
J310308*	2031-05-19 23:33:35.61	17 45 56.22120 −22 52 56.56855	1.7	20.627	180.69	−12.90	4.377	68.8	9.568	13.387	12.335	36.1	151.6
Pgt	4068854482106659840	17 45 56.20312 −22 53 17.19445	1.0	65.489	0.68	−2.61		68.8	0.240	12.911	0	−22.9	136.6
J310309	2031-05-20 00:16:42.70	17 45 55.42333 −22 53 38.71454	2.6	21.648	0.68	−12.91	4.377	−75.7	8.498	14.202	12.761	25.3	151.6
Pgt	4068854447765103360	17 45 55.44199 −22 53 17.06806	1.5	68.726	0.68	−2.61		−75.7		13.727	0	−22.9	137.0

Table 3 *continued on next page*

Table 3 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310310	2031-05-20 10:29:32.90	17 45 44.57971 −22 53 04.19560	1.6	11.046	180.71	−13.02	4.374	32.6	9.815	14.649	13.425	231.6	152.1
Pgt	4068854349064610176	17 45 44.56984 −22 53 15.24097	0.9	35.041	0.70	−2.61		32.7	0.312	14.183	0	−22.9	142.3
J310311	2031-05-20 15:47:12.43	17 45 38.88418 −22 53 26.38091	1.2	12.111	0.71	−13.08	4.372	−36.0	6.532	11.661	10.993	152.0	152.3
Pgt	4068857166563218432	17 45 38.89502 −22 53 14.27115	0.7	38.403	0.71	−2.61		−36.0	1.289	11.200	0	−22.9	145.0
J310312	2031-05-20 15:48:24.05	17 45 38.86109 −22 53 28.30089	6.7	14.034	0.71	−13.08	4.372	−42.1	5.827	14.685	13.940	151.7	152.3
Pgt	4068857162169473792	17 45 38.87365 −22 53 14.26747	3.9	44.504	0.71	−2.61		−42.1		14.224	0	−22.9	145.1
J310313*	2031-05-20 19:03:05.48	17 45 35.37420 −22 53 22.78624	5.4	9.122	0.72	−13.11	4.371	−26.8	8.410	14.825	13.254	102.9	152.5
Pgt	4068857235282744192	17 45 35.38244 −22 53 13.66524	3.3	28.918	0.72	−2.61		−26.8		14.367	0	−22.9	146.7
J310314	2031-05-20 23:00:26.19	17 45 31.09883 −22 53 28.44016	2.1	15.518	0.72	−13.15	4.370	−47.1	8.712	14.261	12.896	43.3	152.6
Pgt	4068857196525963904	17 45 31.11293 −22 53 12.92295	1.4	49.183	0.72	−2.61		−47.1	0.621	13.806	0	−22.9	148.8
J310315	2031-05-21 05:55:54.55	17 45 23.58568 −22 53 31.17463	1.2	19.574	0.73	−13.23	4.368	−63.1	9.856	13.912	12.811	299.2	152.9
Pgt	4068851565923431808	17 45 23.60372 −22 53 11.60186	0.7	62.006	0.74	−2.61		−63.1	0.242	13.463	0	−22.9	152.3
J310316	2031-05-21 12:18:33.37	17 45 16.66404 −22 52 53.29806	2.0	17.064	180.75	−13.29	4.366	52.6	9.022	14.633	13.261	203.2	153.2
Pgt	4068852390557284480	17 45 16.64789 −22 53 10.36047	1.2	54.029	0.75	−2.61		52.6	0.562	14.189	0	−22.9	155.6
J310317	2031-05-21 20:07:20.82	17 45 08.07800 −22 53 04.87281	4.5	3.935	180.76	−13.37	4.363	11.4	7.580	14.432	12.872	85.6	153.6
Pgt	4068852459276856576	17 45 08.07423 −22 53 08.80728	2.6	12.452	0.76	−2.61		11.4		13.996	0	−22.9	159.5
J310318	2031-05-21 23:07:13.29	17 45 04.75734 −22 53 20.92577	1.3	12.725	0.76	−13.41	4.362	−37.8	7.775	8.603	8.258	40.5	153.7
Pgt	4068852081319759360	17 45 04.76953 −22 53 08.20189	0.7	40.260	0.77	−2.61		−37.8	0.342	8.169	0	−22.9	161.1
J310319	2031-05-22 03:00:35.39	17 45 00.48204 −22 52 54.85890	3.7	12.551	180.77	−13.44	4.361	37.2	8.211	14.683	13.098	342.0	153.9
Pgt	4116890530206723584	17 45 00.46982 −22 53 07.40864	2.1	39.698	0.78	−2.61		37.2		14.252	0	−22.9	163.0
J310320	2031-05-22 05:59:54.18	17 44 57.16658 −22 52 56.78582	5.5	10.008	180.78	−13.47	4.360	29.4	5.640	13.846	12.036	297.1	154.0
Pgt	4116890534598985728	17 44 57.15678 −22 53 06.79313	3.3	31.649	0.78	−2.61		29.4		13.417	0	−22.9	164.5
J310321	2031-05-22 11:43:19.35	17 44 50.80823 −22 52 46.67955	1.6	18.922	180.79	−13.53	4.358	60.0	9.767	14.684	13.408	210.9	154.3
Pgt	4116890706397768448	17 44 50.78943 −22 53 05.59958	0.9	59.813	0.80	−2.61		60.0	0.266	14.260	0	−22.9	167.4
J310322	2031-05-22 14:39:23.44	17 44 47.53623 −22 52 42.46785	1.5	22.514	180.79	−13.56	4.358	84.6	8.308	12.931	11.734	166.8	154.4
Pgt	4116890667653349248	17 44 47.51371 −22 53 04.98009	0.8	71.154	0.80	−2.61		84.6	0.505	12.509	0	−22.9	168.8
J310323	2031-05-22 17:56:38.45	17 44 43.82430 −22 53 14.90510	1.6	10.626	0.79	−13.59	4.357	−31.2	9.553	14.625	13.353	117.3	154.5
Pgt	4116889190176877184	17 44 43.83489 −22 53 04.27991	0.9	33.575	0.81	−2.61		−31.2	0.383	14.206	0	−22.9	170.5
J310324	2031-05-22 21:05:12.41	17 44 40.32690 −22 52 46.06928	1.3	17.537	180.80	−13.62	4.356	54.3	9.664	14.189	13.014	70.0	154.7
Pgt	4116890019203131520	17 44 40.30915 −22 53 03.60441	0.7	55.399	0.81	−2.61		54.3	0.262	13.772	0	−22.9	172.0
J310325	2031-05-23 14:37:48.09	17 44 20.45867 −22 53 09.50342	1.6	9.782	0.82	−13.79	4.350	−28.6	9.421	14.268	13.047	166.1	155.5
Pgt	4116889808659868416	17 44 20.46884 −22 52 59.72220	1.0	30.865	0.85	−2.61		−28.6	0.299	13.864	0	−22.9	177.7
J310326	2031-05-23 23:54:35.11	17 44 09.86672 −22 52 57.23648	4.3	0.355	180.84	−13.88	4.348	1.1	7.980	14.680	13.117	26.5	155.9
Pgt	4116892694870245248	17 44 09.86634 −22 52 57.59190	2.6	1.121	0.87	−2.61		1.0		14.283	0	−22.9	173.9
J310327	2031-05-24 03:06:14.60	17 44 06.19845 −22 52 58.20937	1.2	1.363	0.84	−13.91	4.347	−3.9	9.303	13.313	12.228	338.4	156.0
Pgt	4116892866668942848	17 44 06.19991 −22 52 56.84623	0.8	4.298	0.88	−2.61		−4.0	0.272	12.919	0	−22.9	172.4
J310328	2031-05-24 03:33:49.68	17 44 05.67041 −22 52 57.77072	5.0	1.032	0.85	−13.91	4.347	−2.9	7.689	14.912	13.275	331.5	156.0
Pgt	4116892871061764224	17 44 05.67151 −22 52 56.73839	3.3	3.255	0.88	−2.61		−3.0		14.518	0	−22.9	172.2
J310329	2031-05-24 06:39:50.61	17 44 02.07989 −22 53 18.29386	3.8	22.289	0.85	−13.94	4.346	−80.3	6.535	12.748	11.259	284.8	156.2
Pgt	4116869398967597312	17 44 02.10371 −22 52 56.00766	2.3	70.252	0.88	−2.61		−80.3	1.789	12.356	0	−22.9	170.7
J310330	2031-05-24 08:11:04.98	17 44 00.32862 −22 53 16.33391	1.0	20.689	0.85	−13.96	4.345	−68.3	8.733	12.007	11.044	262.0	156.2
Pgt	4116869467685698048	17 44 00.35082 −22 52 55.64703	0.6	65.204	0.89	−2.61		−68.3	0.361	11.616	0	−22.9	169.9
J310331	2031-05-24 08:37:48.66	17 43 59.81260 −22 53 18.23116	3.2	22.693	0.85	−13.96	4.345		8.527	14.779	13.276	255.3	156.3
Pt	4116869472072911488	17 43 59.83695 −22 52 55.54110	2.0	71.516	0.89	−2.61				14.389	0	−22.9	169.7
J310332	2031-05-24 09:33:48.92	17 43 58.77873 −22 52 37.81367	1.7	17.507	180.86	−13.97	4.345	54.0	9.608	14.843	13.543	241.2	156.3
Pgt	4116870223636584576	17 43 58.75970 −22 52 55.31875	1.1	55.170	0.89	−2.61		54.0	0.412	14.453	0	−22.9	169.3
J310333	2031-05-24 12:11:58.94	17 43 55.72328 −22 52 45.66874	2.5	9.020	180.86	−13.99	4.344	26.3	8.426	14.309	12.878	201.6	156.4
Pgt	4116870193627491840	17 43 55.71345 −22 52 54.68777	1.5	28.420	0.89	−2.61		26.3	0.829	13.921	0	−22.9	168.0
J310334	2031-05-24 17:50:38.25	17 43 49.17766 −22 52 47.92076	1.3	5.402	180.87	−14.04	4.343	15.7	8.917	14.057	12.755	116.6	156.7
Pgt	4116870159267826560	17 43 49.17171 −22 52 53.32177	0.8	17.013	0.91	−2.61		15.6	0.499	13.673	0	−22.9	165.2

Table 3 *continued on next page*

Table 3 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310335	2031-05-24 18:46:07.40	17 43 48.11567 −22 52 36.56494	2.8	16.533	180.88	−14.05	4.342	50.4	8.448	14.310	12.876	102.7	156.7
Pgt	4116870365426278144	17 43 48.09739 −22 52 53.09600	1.7	52.070	0.91	−2.61		50.3	0.851	13.926	0	−22.9	164.7
J310336	2031-05-24 18:57:58.69	17 43 47.86081 −22 52 59.37204	1.7	6.325	0.87	−14.05	4.342	−18.3	8.551	14.070	12.691	99.7	156.7
Pgt	4116870159267830656	17 43 47.86776 −22 52 53.04769	1.1	19.920	0.91	−2.61		−18.4	0.654	13.687	0	−22.9	164.7
J310337	2031-05-25 03:57:58.22	17 43 37.37574 −22 52 49.21363	2.8	1.607	180.89	−14.14	4.340	4.7	8.383	14.419	12.949	324.3	157.1
Pgt	4116870017450574464	17 43 37.37394 −22 52 50.82046	1.6	5.058	0.93	−2.61		4.6	0.897	14.042	0	−22.9	160.2
J310338	2031-05-25 06:35:59.38	17 43 34.29563 −22 52 45.58941	1.9	4.570	180.89	−14.16	4.339	13.2	9.365	14.833	13.487	284.7	157.2
Pgt	4116881734113756928	17 43 34.29048 −22 52 50.15879	1.1	14.382	0.93	−2.61		13.2	0.496	14.458	0	−22.9	158.9
J310339	2031-05-25 09:22:44.24	17 43 31.05162 −22 52 30.95279	5.5	18.505	180.90	−14.18	4.338	57.9	7.709	14.950	13.307	242.9	157.4
Pgt	4116881807222791040	17 43 31.03058 −22 52 49.45573	3.4	58.228	0.94	−2.61		57.8		14.577	0	−22.9	157.5
J310340	2031-05-25 20:46:27.02	17 43 17.61090 −22 52 36.60498	3.5	9.917	180.92	−14.28	4.335	29.0	8.611	14.631	13.163	71.4	157.9
Pgt	4116880467193144704	17 43 17.59942 −22 52 46.52098	2.0	31.183	0.96	−2.61		28.9	0.824	14.265	0	−22.9	151.9
J310341	2031-05-26 03:01:29.62	17 43 10.19558 −22 52 39.04959	3.0	5.827	180.93	−14.34	4.334	16.9	8.474	14.379	12.918	337.4	158.1
Pgt	4116881253085024512	17 43 10.18876 −22 52 44.87542	1.8	18.314	0.98	−2.61		16.8	0.863	14.017	0	−22.9	148.8
J310342	2031-05-26 11:58:02.29	17 42 59.53562 −22 52 41.70036	1.7	0.776	180.94	−14.41	4.331	2.3	9.385	14.613	13.277	202.8	158.5
Pgt	4116881390516388992	17 42 59.53469 −22 52 42.47650	1.1	2.439	0.99	−2.61		2.2	0.420	14.257	0	−22.9	144.4
J310343	2031-05-26 23:08:04.93	17 42 46.16547 −22 52 21.57842	3.5	17.830	180.96	−14.50	4.329	55.0	8.449	14.835	13.305	34.8	159.0
Pgt	4116884109325851392	17 42 46.14377 −22 52 39.40583	2.1	55.975	1.02	−2.61		54.9		14.486	0	−22.9	138.8
J310344	2031-05-27 05:56:30.36	17 42 37.91061 −22 52 57.46238	2.2	19.972	0.97	−14.56	4.327	−64.1	9.423	14.954	13.561	292.4	159.3
Pgt	4116878268168448128	17 42 37.93501 −22 52 37.49330	1.4	62.675	1.03	−2.61		−64.2	0.456	14.609	0	−22.9	135.4
J310345	2031-05-27 12:43:56.88	17 42 29.70311 −22 52 42.62106	4.1	7.067	0.98	−14.61	4.325	−20.3	7.790	14.691	13.095	190.2	159.6
Pgt	4116878989723282560	17 42 29.71187 −22 52 35.55468	2.3	22.170	1.05	−2.61		−20.5		14.350	0	−22.9	132.0
J310346	2031-05-27 14:14:15.77	17 42 27.86659 −22 52 49.61211	1.2	14.493	0.98	−14.63	4.325	−43.1	8.778	13.723	12.474	167.6	159.7
Pgt	4116879058442558848	17 42 27.88457 −22 52 35.12080	0.7	45.461	1.05	−2.61		−43.2	0.451	13.383	0	−22.9	131.2
J310347*	2031-05-27 15:08:31.67	17 42 26.79553 −22 52 27.12922	2.2	7.731	180.99	−14.63	4.325	22.4	9.657	14.558	13.245	154.0	159.8
Pgt	4116879058442589824	17 42 26.78587 −22 52 34.85937	1.3	24.249	1.05	−2.61		22.3		14.219	0	−22.9	130.8
J310348	2031-05-27 15:43:21.79	17 42 26.08667 −22 52 29.55624	2.3	5.136	180.99	−14.64	4.324	14.9	8.865	14.566	13.126	145.2	159.8
Pgt	4116879058442599168	17 42 26.08026 −22 52 34.69127	1.4	16.108	1.05	−2.61		14.7	0.623	14.227	0	−22.9	130.5
J310349	2031-05-27 23:30:51.12	17 42 16.56887 −22 52 47.36251	2.2	14.951	1.00	−14.70	4.323	−44.6	9.858	14.981	13.678	28.0	160.1
Pgt	4116878817924529792	17 42 16.58772 −22 52 32.41330	1.2	46.873	1.07	−2.61		−44.7	0.294	14.647	0	−22.9	126.6
J310350	2031-05-28 04:30:18.95	17 42 10.50268 −22 52 16.67154	1.2	14.263	181.01	−14.74	4.321	42.4	8.927	13.692	12.481	312.9	160.4
Pgt	4116925753338733056	17 42 10.48444 −22 52 30.93241	0.6	44.703	1.08	−2.61		42.3	0.375	13.360	0	−22.9	124.0
J310351	2031-05-28 05:40:07.34	17 42 09.04589 −22 52 41.01899	1.3	10.436	1.01	−14.75	4.321	−30.3	8.982	14.089	12.771	295.4	160.4
Pgt	4116925714578936832	17 42 09.05920 −22 52 30.58476	0.7	32.706	1.09	−2.61		−30.5	0.454	13.758	0	−22.9	123.4
J310352	2031-05-28 08:07:13.08	17 42 06.06433 −22 52 20.90661	3.0	8.944	181.02	−14.76	4.321	26.0	8.984	14.932	13.453	258.5	160.5
Pgt	4116925787646728064	17 42 06.05284 −22 52 29.84915	1.8	28.026	1.09	−2.61		25.8	0.635	14.603	0	−22.9	122.2
J310353	2031-05-28 08:39:09.93	17 42 05.37565 −22 52 48.17825	3.6	18.492	1.01	−14.77	4.320	−57.4	7.525	14.518	12.941	250.5	160.5
Pgt	4116925684619289088	17 42 05.39933 −22 52 29.68884	2.1	57.945	1.09	−2.61		−57.6		14.188	0	−22.9	121.9
J310354	2031-05-28 08:48:22.04	17 42 05.18408 −22 52 50.71168	1.4	21.072	1.01	−14.77	4.320	−69.7	8.736	13.872	12.548	248.2	160.5
Pgt	4116925684619292288	17 42 05.21106 −22 52 29.64263	0.7	66.029	1.09	−2.61		−69.9	0.478	13.543	0	−22.9	121.9
J310355	2031-05-28 08:56:59.68	17 42 05.02146 −22 52 39.78283	2.3	10.185	1.02	−14.77	4.320	−29.5	9.325	14.865	13.444	246.0	160.6
Pgt	4116925680219170432	17 42 05.03453 −22 52 29.59929	1.3	31.914	1.09	−2.61		−29.7		14.536	0	−22.9	121.8
J310356	2031-05-28 18:09:39.66	17 41 53.67844 −22 52 40.17857	1.4	13.387	1.03	−14.84	4.318	−39.4	9.323	14.507	13.196	107.4	161.0
Pgt	4116924447669961728	17 41 53.69588 −22 52 26.79336	0.8	41.927	1.11	−2.61		−39.6	0.441	14.184	0	−22.9	117.1
J310357	2031-05-28 20:19:13.33	17 41 51.03924 −22 52 18.47774	2.9	7.651	181.04	−14.86	4.318	22.2	7.937	14.174	12.654	75.0	161.1
Pgt	4116925199182885248	17 41 51.02921 −22 52 26.12716	1.7	23.958	1.12	−2.61		22.0	1.280	13.852	0	−22.9	116.0
J310358	2031-05-28 21:19:46.91	17 41 49.81018 −22 52 04.15272	2.1	21.666	181.04	−14.86	4.317	73.6	9.421	14.819	13.428	59.8	161.1
Pgt	4116925199210105088	17 41 49.78165 −22 52 25.81468	1.2	67.841	1.12	−2.61		73.5	0.423	14.497	0	−22.9	115.5
J310359	2031-05-28 21:20:01.33	17 41 49.76469 −22 52 34.97183	2.1	9.160	1.04	−14.86	4.317	−26.5	8.861	14.448	13.034	59.7	161.1
Pgt	4116925199182861696	17 41 49.77670 −22 52 25.81344	1.2	28.682	1.12	−2.61		−26.6		14.126	0	−22.9	115.5

Table 3 *continued on next page*

Table 3 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310360	2031-05-29 02:02:21.79	17 41 43.92234 −22 52 46.21838	5.3	21.875	1.04	−14.90	4.316	−75.0	8.459	14.754	13.214	348.9	161.3
Pgt	4116925134909484288	17 41 43.95116 −22 52 24.34743	3.1	68.479	1.13	−2.61		−75.1		14.434	0	−22.9	113.0
J310361	2031-05-29 09:17:41.49	17 41 34.90875 −22 52 45.56602	2.5	23.512	1.06	−14.95	4.315		8.371	14.287	12.719	239.7	161.6
Pt	4116925370989068416	17 41 34.94009 −22 52 22.05759	1.4	73.578	1.15	−2.61				13.971	0	−22.9	109.3
J310362	2031-05-29 15:30:54.75	17 41 27.17214 −22 52 31.32878	1.6	11.265	1.07	−15.00	4.313	−32.7	9.480	14.502	13.230	146.1	161.9
Pgt	4116927913628514176	17 41 27.18734 −22 52 20.06583	0.9	35.240	1.16	−2.61		−32.9	0.360	14.189	0	−22.9	106.1
J310363	2031-05-29 18:23:00.26	17 41 23.61827 −22 52 08.80072	1.4	10.340	181.08	−15.01	4.313	30.1	8.323	11.601	10.650	103.0	162.0
Pgt	4116927986722347392	17 41 23.60420 −22 52 19.13845	0.8	32.341	1.17	−2.61		29.9	0.387	11.290	0	−22.9	104.6
J310364*	2031-05-29 18:35:33.75	17 41 23.34268 −22 52 18.95701	2.0	0.114	181.08	−15.02	4.313	0.4	9.668	14.307	13.084	99.8	162.1
Pgt	4116927986722338304	17 41 23.34252 −22 52 19.07056	1.1	0.355	1.17	−2.61		0.2	0.322	13.996	0	−22.9	104.4
J310365*	2031-05-30 02:32:53.09	17 41 13.39044 −22 52 05.76565	5.5	10.704	181.09	−15.07	4.311	31.2	7.807	14.559	12.892	340.1	162.4
Pgt	4116928119760688768	17 41 13.37569 −22 52 16.46727	2.9	33.465	1.19	−2.61		31.0		14.252	0	−22.9	100.3
J310366	2031-05-30 03:35:34.52	17 41 12.03110 −22 52 39.84229	3.2	23.724	1.09	−15.08	4.311		8.365	14.700	13.175	324.4	162.5
Pt	4116552812784142336	17 41 12.06368 −22 52 16.12207	1.7	74.172	1.19	−2.61				14.394	0	−22.9	99.7
J310367	2031-05-30 05:09:15.98	17 41 10.10824 −22 52 10.79245	2.3	4.813	181.09	−15.09	4.310	13.9	8.595	14.356	12.924	300.9	162.5
Pgt	4116553564260083712	17 41 10.10158 −22 52 15.60475	1.3	15.047	1.19	−2.61		13.7		14.050	0	−22.9	98.9
J310368	2031-05-30 06:30:12.45	17 41 08.39037 −22 52 25.91994	1.1	10.765	1.10	−15.10	4.310	−31.2	9.292	12.459	11.527	280.6	162.6
Pgt	4116553564260071168	17 41 08.40525 −22 52 15.15646	0.6	33.652	1.19	−2.61		−31.4	0.233	12.154	0	−22.9	98.2
J310369	2031-05-30 10:34:12.86	17 41 03.31312 −22 51 53.32939	2.8	20.472	181.11	−15.13	4.309	66.3	8.544	14.461	13.014	219.4	162.8
Pgt	4116553603058204288	17 41 03.28450 −22 52 13.79731	1.6	63.981	1.20	−2.61		66.1	0.815	14.158	0	−22.9	96.0
J310370	2031-05-31 03:24:07.57	17 40 41.95050 −22 52 29.93226	1.9	21.887	1.13	−15.24	4.306	−74.6	9.730	14.974	13.693	326.2	163.5
Pgt	4116565143491899264	17 40 41.98171 −22 52 08.04961	1.1	68.348	1.24	−2.61		−74.8	0.343	14.679	0	−22.9	86.9
J310371	2031-05-31 06:34:04.77	17 40 37.92259 −22 52 30.23408	1.8	23.292	1.13	−15.26	4.305		6.291	11.158	9.920	278.5	163.7
Pt	4116565246570306944	17 40 37.95597 −22 52 06.94654	1.0	72.726	1.25	−2.61			1.518	10.864	0	−22.9	85.2
J310372	2031-05-31 11:26:13.82	17 40 31.72140 −22 52 27.07057	2.4	21.839	1.14	−15.29	4.304	−74.2	9.119	14.841	13.446	205.3	163.9
Pgt	4116565285372027264	17 40 31.75294 −22 52 05.23629	1.4	68.172	1.26	−2.61		−74.4	0.579	14.550	0	−22.9	82.5
J310373	2031-05-31 15:05:27.83	17 40 27.07869 −22 52 11.10641	1.1	7.166	1.15	−15.31	4.303	−20.5	8.692	12.211	11.207	150.3	164.0
Pgt	4116564559376360192	17 40 27.08912 −22 52 03.94193	0.6	22.366	1.27	−2.61		−20.7	0.338	11.921	0	−22.9	80.5
J310374	2031-06-01 06:36:38.02	17 40 07.19461 −22 51 58.04516	4.6	0.294	181.18	−15.41	4.300	1.0	6.410	13.532	11.924	276.8	164.7
Pgt	4116567690553486080	17 40 07.19417 −22 51 58.33864	2.6	0.916	1.30	−2.61		0.7		13.248	0	−22.9	71.8
J310375	2031-06-01 08:08:21.50	17 40 05.23893 −22 51 49.77040	1.9	8.009	181.18	−15.42	4.300	23.2	9.366	14.266	13.016	253.8	164.8
Pgt	4116567308156305920	17 40 05.22695 −22 51 57.77745	1.0	24.977	1.31	−2.61		22.9	0.288	13.983	0	−22.9	71.0
J310376	2031-06-01 09:42:36.18	17 40 03.17278 −22 52 18.28865	4.6	21.094	1.18	−15.43	4.300	−69.2	8.051	14.648	13.103	230.1	164.9
Pgt	4116567308156282368	17 40 03.20431 −22 51 57.19914	2.5	65.781	1.31	−2.61		−69.5		14.366	0	−22.9	70.1
J310377*	2031-06-01 10:52:55.09	17 40 01.67820 −22 52 07.52423	21.3	10.760	1.19	−15.43	4.300	−31.1	8.124	14.229	12.719	212.5	164.9
Pgt	4116567346956112512	17 40 01.69433 −22 51 56.76653	10.8	33.553	1.31	−2.61		−31.3	0.738	13.948	0	−22.9	69.4
J310378	2031-06-01 16:05:59.97	17 39 54.97407 −22 51 46.77413	4.9	8.056	181.20	−15.46	4.299	23.3	7.486	14.526	12.918	134.0	165.2
Pgt	4116567450035344768	17 39 54.96187 −22 51 54.82868	2.9	25.116	1.33	−2.61		23.0		14.247	0	−22.9	66.4
J310379	2031-06-02 07:45:47.58	17 39 34.67432 −22 51 43.26716	2.1	5.632	181.23	−15.55	4.296	16.3	9.398	14.905	13.543	258.3	165.9
Pgt	4116562605311213568	17 39 34.66561 −22 51 48.89746	1.1	17.545	1.36	−2.61		16.0	0.478	14.632	0	−22.9	57.3
J310380	2031-06-02 15:27:29.04	17 39 24.64909 −22 51 45.40187	2.4	0.519	181.24	−15.59	4.294	1.6	8.466	14.154	12.783	142.5	166.2
Pgt	4116750205040069248	17 39 24.64828 −22 51 45.92037	1.3	1.615	1.38	−2.61		1.3		13.884	0	−22.9	52.8
J310381	2031-06-02 17:43:38.80	17 39 21.68882 −22 51 44.61504	2.2	0.419	181.24	−15.61	4.294	1.4	9.054	14.682	13.296	108.4	166.3
Pgt	4116749895802424192	17 39 21.68816 −22 51 45.03434	1.2	1.306	1.39	−2.61		1.0	0.554	14.413	0	−22.9	51.5
J310382	2031-06-03 02:24:16.39	17 39 10.32384 −22 51 55.49197	1.0	13.882	1.26	−15.65	4.292	−40.7	8.517	11.943	10.956	337.8	166.7
Pgt	4116750033241355648	17 39 10.34585 −22 51 41.61295	0.6	43.219	1.41	−2.61		−41.0	0.365	11.677	0	−22.9	46.3
J310383	2031-06-03 11:05:54.27	17 38 58.97020 −22 51 21.95779	1.2	16.178	181.27	−15.70	4.291	48.6	9.347	13.672	12.524	207.0	167.1
Pgt	4116749350414323072	17 38 58.94416 −22 51 38.13199	0.6	50.349	1.43	−2.60		48.3	0.310	13.409	0	−22.9	41.0
J310384	2031-06-03 14:46:09.06	17 38 54.13981 −22 51 23.91196	1.5	12.738	181.28	−15.72	4.290	37.3	9.947	14.527	13.352	151.8	167.3
Pgt	4116749522213055488	17 38 54.11921 −22 51 36.64645	0.8	39.636	1.44	−2.60		37.0	0.249	14.265	0	−22.9	38.8

Table 3 *continued on next page*

Table 3 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310385	2031-06-03 15:00:07.83	17 38 53.79103 −22 51 50.01048	2.1	13.462	1.28	−15.72	4.290	−39.3	8.823	14.354	12.956	148.3	167.3
Pgt	4116749517840334848	17 38 53.81275 −22 51 36.55185	1.2	41.889	1.44	−2.60		−39.6	0.637	14.093	0	−22.9	38.6
J310386	2031-06-03 15:13:01.35	17 38 53.52746 −22 51 38.10156	1.5	1.637	1.28	−15.72	4.290	−4.5	9.760	14.458	13.251	145.1	167.3
Pgt	4116749517840334464	17 38 53.53011 −22 51 36.46457	0.8	5.095	1.44	−2.60		−4.8	0.262	14.197	0	−22.9	38.5
J310387	2031-06-03 23:59:13.02	17 38 41.96877 −22 51 37.19110	2.1	4.317	1.30	−15.76	4.289	−12.1	9.651	14.908	13.580	13.1	167.7
Pgt	4116752408431157120	17 38 41.97583 −22 51 32.87476	1.1	13.430	1.46	−2.60		−12.5	0.390	14.650	0	−22.9	33.1
J310388	2031-06-04 11:38:53.01	17 38 26.58350 −22 51 13.08927	2.6	14.933	181.32	−15.82	4.287	44.3	9.165	14.653	13.262	197.6	168.2
Pgt	4116752992546863360	17 38 26.55866 −22 51 28.01797	1.4	46.431	1.48	−2.60		44.0		14.398	0	−22.9	25.9
J310389	2031-06-04 18:48:54.03	17 38 17.07722 −22 51 10.56581	2.0	14.424	181.33	−15.85	4.286	42.7	9.588	11.535	10.873	89.8	168.5
Pgt	4116729760988640512	17 38 17.05301 −22 51 24.98553	1.1	44.837	1.50	−2.60		42.3	0.172	11.283	0	−22.9	21.5
J310390	2031-06-05 17:55:00.23	17 37 46.24079 −22 51 28.82781	4.5	13.862	1.37	−15.95	4.283	−40.5	7.620	14.769	13.121	102.2	169.6
Pgt	4116741241514281728	17 37 46.26471 −22 51 14.96930	2.6	43.059	1.56	−2.60		−40.8		14.524	0	−22.9	7.1
J310391	2031-06-06 10:52:28.31	17 37 23.50949 −22 51 20.27648	2.0	12.897	1.40	−16.02	4.281	−37.4	9.911	14.908	13.648	207.0	170.3
Pgt	4116743642325075328	17 37 23.53223 −22 51 07.38323	1.1	40.039	1.60	−2.60		−37.8	0.319	14.667	0	−22.9	4.4
J310392	2031-06-07 03:29:16.87	17 37 01.18426 −22 50 45.23676	3.0	14.527	181.43	−16.09	4.278	43.0	8.654	14.693	13.213	317.1	171.1
Pgt	4116744196452141952	17 37 01.15808 −22 50 59.75959	1.6	45.079	1.64	−2.60		42.5		14.456	0	−22.9	14.6
J310393	2031-06-07 06:13:46.50	17 36 57.45275 −22 51 00.67444	1.4	2.192	1.43	−16.10	4.278	−6.0	9.519	14.189	12.992	275.8	171.2
Pgt	4116744226440676736	17 36 57.45671 −22 50 58.48358	0.7	6.800	1.64	−2.60		−6.5	0.330	13.953	0	−22.9	16.4
J310394	2031-06-07 09:43:25.07	17 36 52.76535 −22 50 40.60812	1.2	16.247	181.44	−16.11	4.278	48.7	8.593	13.441	12.206	223.2	171.4
Pgt	4116744432599154944	17 36 52.73585 −22 50 56.84996	0.6	50.406	1.65	−2.60		48.3	0.481	13.206	0	−22.9	18.6
J310395	2031-06-08 02:55:29.64	17 36 29.42951 −22 50 53.01954	1.4	4.334	1.47	−16.17	4.276	−12.1	9.699	14.335	13.128	324.4	172.1
Pgt	4116785290709356544	17 36 29.43754 −22 50 48.68651	0.7	13.442	1.69	−2.60		−12.6	0.302	14.104	0	−22.9	29.4
J310396	2031-06-08 03:44:46.62	17 36 28.30147 −22 50 59.71131	3.9	11.423	1.47	−16.17	4.276	−32.8	7.417	14.588	12.964	312.1	172.2
Pgt	4116785290664312064	17 36 28.32263 −22 50 48.29165	2.1	35.424	1.70	−2.60		−33.3	1.361	14.357	0	−22.9	29.9
J310397	2031-06-08 10:37:25.92	17 36 18.96550 −22 50 52.18921	1.9	7.224	1.48	−16.19	4.275	−20.4	9.859	14.935	13.644	208.6	172.5
Pgt	4116785973522806528	17 36 18.97899 −22 50 44.96744	1.0	22.399	1.71	−2.60		−20.9	0.335	14.705	0	−22.9	34.2
J310398	2031-06-08 11:28:26.48	17 36 17.83222 −22 50 39.61419	1.8	4.942	181.48	−16.20	4.275	14.3	9.324	14.511	13.192	195.8	172.5
Pgt	4116786046623734144	17 36 17.82298 −22 50 44.55432	1.0	15.322	1.72	−2.60		13.8	0.437	14.282	0	−22.9	34.7
J310399	2031-06-08 16:03:44.78	17 36 11.57566 −22 50 44.65198	1.2	2.336	1.49	−16.21	4.274	−6.4	8.528	13.541	12.247	126.7	172.7
Pgt	4116786214040996224	17 36 11.58006 −22 50 42.31633	0.6	7.243	1.73	−2.60		−6.9	0.529	13.313	0	−22.9	37.5
J310400	2031-06-08 16:21:51.82	17 36 11.17778 −22 50 37.50726	3.2	4.663	181.49	−16.21	4.274	13.5	8.077	14.696	13.137	122.2	172.7
Pgt	4116786218422503680	17 36 11.16901 −22 50 42.16856	1.8	14.455	1.73	−2.60		13.0		14.468	0	−22.9	37.7
J310401	2031-06-08 20:05:47.28	17 36 06.06146 −22 50 53.53132	1.4	13.199	1.50	−16.22	4.274	−38.2	9.509	14.258	13.043	66.0	172.9
Pgt	4116784809673278080	17 36 06.08638 −22 50 40.33723	0.7	40.913	1.74	−2.60		−38.7	0.304	14.031	0	−22.9	40.0
J310402	2031-06-09 02:34:41.90	17 35 57.25912 −22 50 32.22158	2.6	4.915	181.51	−16.24	4.273	14.3	8.808	14.604	13.147	328.5	173.2
Pgt	4116787695891422336	17 35 57.24977 −22 50 37.13481	1.5	15.233	1.75	−2.60		13.7	0.690	14.378	0	−22.9	44.0
J310403	2031-06-09 03:26:08.90	17 35 56.11262 −22 50 19.55273	1.5	17.162	181.51	−16.24	4.273	51.9	8.938	14.125	12.802	315.6	173.2
Pgt	4116787695891447424	17 35 56.07991 −22 50 36.70908	0.8	53.191	1.75	−2.60		51.4	0.539	13.899	0	−22.9	44.6
J310404	2031-06-09 04:09:55.77	17 35 55.07488 −22 50 41.27191	1.2	4.927	1.51	−16.24	4.273	−13.7	9.163	13.492	12.350	304.6	173.3
Pgt	4116787691509752064	17 35 55.08427 −22 50 36.34643	0.6	15.271	1.76	−2.60		−14.3	0.307	13.267	0	−22.9	45.0
J310405	2031-06-09 09:44:03.24	17 35 47.47654 −22 50 36.07154	1.7	2.505	1.52	−16.26	4.273	−6.8	9.592	14.521	13.279	220.8	173.5
Pgt	4116787489733097472	17 35 47.48134 −22 50 33.56723	0.8	7.763	1.77	−2.60		−7.4	0.330	14.296	0	−22.9	48.4
J310406	2031-06-09 11:09:27.15	17 35 45.57136 −22 50 14.90792	1.4	17.952	181.52	−16.26	4.273	54.8	8.929	13.546	12.334	199.4	173.6
Pgt	4116787558452620416	17 35 45.53684 −22 50 32.85361	0.7	55.629	1.77	−2.60		54.3	0.363	13.322	0	−22.9	49.3

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

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

Table 4. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K $\leq$ 10 (part 4 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310407	2031-06-09 11:16:11.04	17 35 45.34556 −22 50 52.57582	1.4	19.785	1.52	−16.26	4.273	−61.9	8.561	13.724	12.399	197.7	173.6
Pgt	4116787554070788224	17 35 45.38354 −22 50 32.79731	0.7	61.311	1.77	−2.60		−62.3	0.611	13.499	0	−22.9	49.3
J310408	2031-06-10 15:10:35.63	17 35 07.15105 −22 50 20.64704	2.6	2.114	1.57	−16.34	4.270	−5.7	8.419	14.080	12.640	137.8	174.8
Pgt	4116706503816765568	17 35 07.15524 −22 50 18.53423	1.5	6.546	1.84	−2.60		−6.3	0.812	13.860	0	−22.9	66.1
J310409	2031-06-10 16:59:10.26	17 35 04.63382 −22 50 35.89491	1.6	18.310	1.57	−16.34	4.270	−55.6	9.531	14.649	13.348	110.6	174.9
Pgt	4116706125893088512	17 35 04.67015 −22 50 17.59197	1.0	56.705	1.85	−2.60		−56.2	0.374	14.429	0	−22.9	67.1
J310410	2031-06-10 18:55:53.11	17 35 01.97094 −22 50 30.21670	1.5	13.645	1.58	−16.34	4.270	−39.5	9.984	14.380	13.208	81.3	175.0
Pgt	4116706194612754816	17 35 01.99808 −22 50 16.57677	0.9	42.257	1.85	−2.60		−40.1	0.247	14.161	0	−22.9	68.3
J310411	2031-06-10 20:57:57.56	17 34 59.24992 −22 49 51.75138	1.7	23.770	181.58	−16.35	4.270		9.939	14.765	13.542	50.7	175.1
Pt	4116706950526823808	17 34 59.20249 −22 50 15.51238	1.0	73.610	1.86	−2.60			0.292	14.546	0	−22.9	69.5
J310412	2031-06-10 23:24:45.60	17 34 55.85419 −22 50 06.92650	1.3	7.305	181.58	−16.35	4.270	21.1	9.614	11.077	10.542	13.9	175.2
Pgt	4116706984899064192	17 34 55.83959 −22 50 14.22891	0.8	22.621	1.86	−2.60		20.5	0.163	10.859	0	−22.9	70.9
J310413	2031-06-11 02:48:23.80	17 34 51.17198 −22 50 12.84940	3.7	0.407	1.59	−16.36	4.269	−0.8	9.306	14.598	13.233	322.8	175.4
Pgt	4116706881819880064	17 34 51.17280 −22 50 12.44220	2.3	1.261	1.87	−2.60		−1.5		14.380	0	−22.9	72.9
J310414	2031-06-11 03:14:46.46	17 34 50.60529 −22 49 53.71527	1.7	18.502	181.59	−16.36	4.269	56.9	9.854	14.950	13.637	316.2	175.4
Pgt	4116707087965145728	17 34 50.56813 −22 50 12.21023	1.1	57.290	1.87	−2.60		56.4	0.336	14.732	0	−22.9	73.2
J310415	2031-06-11 11:17:11.49	17 34 39.48936 −22 50 14.75734	1.1	6.814	1.60	−16.38	4.269	−19.1	8.968	13.531	12.346	195.2	175.7
Pgt	4116708599793684352	17 34 39.50316 −22 50 07.94587	0.7	21.097	1.89	−2.60		−19.7	0.344	13.314	0	−22.9	77.8
J310416	2031-06-11 14:24:51.91	17 34 35.22435 −22 49 51.99283	1.4	14.289	181.61	−16.38	4.269	42.2	9.051	14.183	12.872	148.2	175.9
Pgt	4116708629757042816	17 34 35.19532 −22 50 06.27574	0.9	44.235	1.90	−2.60		41.6	0.417	13.967	0	−22.9	79.6
J310417	2031-06-11 20:58:54.33	17 34 26.19033 −22 49 40.48428	1.2	22.274	181.62	−16.40	4.268	76.5	9.335	13.704	12.560	49.3	176.2
Pgt	4116708801555748736	17 34 26.14475 −22 50 02.74893	0.8	68.949	1.92	−2.60		76.0	0.258	13.488	0	−22.9	83.4
J310418	2031-06-11 21:27:30.35	17 34 25.51223 −22 49 50.43791	1.4	12.059	181.62	−16.40	4.268	35.2	9.788	14.192	13.040	42.2	176.2
Pgt	4116708805952212864	17 34 25.48755 −22 50 02.49189	1.0	37.328	1.92	−2.60		34.6	0.236	13.976	0	−22.9	83.6
J310419	2031-06-11 23:28:19.99	17 34 22.73649 −22 49 48.79906	1.7	12.610	181.62	−16.40	4.268	36.9	9.342	14.476	13.151	11.9	176.3
Pgt	4116708771592493952	17 34 22.71062 −22 50 01.40441	1.1	39.035	1.92	−2.60		36.3		14.260	0	−22.9	84.8
J310420	2031-06-11 23:39:22.41	17 34 22.48578 −22 49 47.20855	1.2	14.102	181.63	−16.40	4.268	41.6	8.581	13.584	12.287	9.1	176.3
Pgt	4116708771592496768	17 34 22.45685 −22 50 01.30491	0.8	43.652	1.92	−2.60		41.0	0.510	13.369	0	−22.9	84.9
J310421	2031-06-12 07:09:17.82	17 34 12.13039 −22 49 47.61360	1.2	9.623	181.64	−16.41	4.268	27.9	9.036	13.702	12.500	256.3	176.6
Pgt	4116709183908789376	17 34 12.11050 −22 49 57.23255	0.7	29.784	1.94	−2.60		27.3	0.349	13.488	0	−22.9	89.1
J310422	2031-06-12 21:04:35.19	17 33 52.87867 −22 49 51.21827	5.5	1.638	1.66	−16.43	4.267	−4.3	7.262	14.485	12.841	46.8	177.3
Pgt	4117454103005400960	17 33 52.88210 −22 49 49.58135	3.7	5.068	1.98	−2.60		−5.0		14.271	0	−22.8	96.9
J310423	2031-06-13 05:15:21.78	17 33 41.57781 −22 49 43.23035	2.1	1.801	181.67	−16.44	4.266	5.5	8.188	13.471	12.122	283.7	177.6
Pgt	4117454236075193344	17 33 41.57401 −22 49 45.03099	1.3	5.574	2.00	−2.60		4.7	0.755	13.258	0	−22.8	101.4
J310424	2031-06-13 05:31:38.99	17 33 41.21518 −22 49 37.04704	4.1	7.836	181.67	−16.44	4.266	22.7	8.322	14.892	13.336	279.6	177.6
Pgt	4117454240444696960	17 33 41.19862 −22 49 44.87928	2.5	24.246	2.00	−2.60		22.0		14.679	0	−22.8	101.6
J310425	2031-06-13 11:32:08.53	17 33 32.85309 −22 49 57.76642	1.8	16.263	1.68	−16.45	4.266	−48.1	9.742	14.370	13.147	189.2	177.9
Pgt	4117454579672553984	17 33 32.88767 −22 49 41.50996	1.0	50.321	2.01	−2.60		−48.7	0.257	14.157	0	−22.8	104.9
J310426	2031-06-13 16:30:00.28	17 33 25.97735 −22 49 57.65037	1.5	18.949	1.69	−16.45	4.266	−58.1	9.316	14.472	13.195	114.5	178.1
Pgt	4117454751471255552	17 33 26.01783 −22 49 38.70957	1.0	58.628	2.02	−2.60		−58.7	0.409	14.260	0	−22.8	107.6
J310427	2031-06-14 01:09:43.39	17 33 14.04162 −22 49 26.49993	4.7	7.292	181.71	−16.46	4.266	21.2	7.845	14.139	12.602	344.2	178.5
Pgt	4117456267668805760	17 33 14.02591 −22 49 33.78838	3.2	22.558	2.04	−2.60		20.4	1.257	13.928	0	−22.8	112.3
J310428	2031-06-14 10:47:43.30	17 33 00.65794 −22 49 39.92783	1.7	11.669	1.72	−16.47	4.265	−33.3	7.710	12.979	11.675	199.3	178.9
Pgt	4117456469458180992	17 33 00.68332 −22 49 28.26402	1.1	36.098	2.07	−2.60		−34.0	0.926	12.768	0	−22.8	117.4
J310429	2031-06-14 15:15:25.25	17 32 54.49842 −22 49 27.40610	4.5	1.720	1.73	−16.47	4.265	−4.5	7.483	14.355	12.815	132.1	179.1
Pgt	4117457195381784576	17 32 54.50217 −22 49 25.68723	2.8	5.320	2.08	−2.60		−5.3		14.144	0	−22.8	119.8
J310430	2031-06-14 15:26:47.94	17 32 54.24011 −22 49 25.26571	5.5	0.312	181.73	−16.47	4.265	1.3	7.638	14.772	13.206	129.3	179.1
Pgt	4117457195381785600	17 32 54.23943 −22 49 25.57745	3.4	0.965	2.08	−2.60		0.5		14.561	0	−22.8	119.9

Table 4 *continued on next page*

Table 4 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310431	2031-06-15 02:48:27.42	17 32 38.48171 −22 49 25.52436	1.8	6.565	1.75	−16.47	4.265	−18.3	9.722	14.938	13.664	318.3	179.5
Pgt	4117457023583127552	17 32 38.49621 −22 49 18.96264	1.2	20.306	2.11	−2.60		−19.1	0.372	14.728	0	−22.8	125.9
J310432	2031-06-15 04:01:49.36	17 32 36.75980 −22 49 37.08835	1.3	18.851	1.75	−16.47	4.265	−57.6	9.344	14.118	12.898	299.9	179.5
Pgt	4117456989223390720	17 32 36.80149 −22 49 18.24624	0.9	58.309	2.11	−2.60		−58.3	0.340	13.908	0	−22.8	126.6
J310433	2031-06-15 04:21:50.65	17 32 36.35075 −22 49 12.73585	0.9	5.317	181.75	−16.47	4.265	15.5	9.268	11.881	11.049	294.9	179.5
Pgt	4117468735884230272	17 32 36.33899 −22 49 18.05058	0.6	16.447	2.11	−2.60		14.7	0.213	11.671	0	−22.8	126.8
J310434	2031-06-15 14:20:55.87	17 32 22.47743 −22 49 21.51601	1.9	9.354	1.77	−16.48	4.265	−26.4	8.616	14.345	12.976	144.7	179.5
Pgt	4117445513056684800	17 32 22.49832 −22 49 12.16683	1.4	28.931	2.14	−2.60		−27.2	0.684	14.135	0	−22.8	132.0
J310435	2031-06-17 03:41:16.15	17 31 30.76307 −22 48 42.37585	2.2	7.310	181.83	−16.47	4.264	21.3	8.850	14.652	13.260	302.8	178.0
Pgt	4117448467994574720	17 31 30.74619 −22 48 49.68180	1.5	22.608	2.23	−2.60		20.4	0.675	14.441	0	−22.8	151.3
J310436	2031-06-17 22:04:17.49	17 31 05.27143 −22 48 45.77040	2.5	7.432	1.86	−16.45	4.265	−20.7	8.813	14.338	12.946	26.2	177.2
Pgt	4117489321727834496	17 31 05.28887 −22 48 38.34215	1.6	22.988	2.28	−2.60		−21.6	0.629	14.126	0	−22.8	160.7
J310437	2031-06-18 19:06:02.85	17 30 36.23362 −22 48 14.34066	2.3	10.831	181.89	−16.43	4.265	31.6	8.828	14.446	13.068	69.8	176.3
Pgt	4117490112002052736	17 30 36.20774 −22 48 25.16598	1.6	33.504	2.33	−2.60		30.7		14.232	0	−22.8	171.2
J310438	2031-06-19 03:13:21.39	17 30 24.95129 −22 48 35.96591	2.1	15.955	1.91	−16.41	4.265	−46.9	9.547	14.841	13.539	307.6	175.9
Pgt	4117492998220141952	17 30 24.98968 −22 48 20.02004	1.3	49.355	2.35	−2.59		−47.8		14.627	0	−22.8	175.1
J310439	2031-06-19 19:50:29.51	17 30 02.08568 −22 48 01.11935	2.7	8.283	181.93	−16.38	4.266	24.2	8.909	14.675	13.236	57.5	175.2
Pgt	4117492654622920192	17 30 02.06549 −22 48 09.39744	1.9	25.626	2.39	−2.59		23.2	0.638	14.458	0	−22.8	175.8
J310440	2031-06-20 07:26:48.40	17 29 46.05082 −22 48 16.38189	1.3	14.482	1.95	−16.36	4.266	−42.0	7.947	12.099	10.990	242.9	174.6
Pgt	4117504023333247744	17 29 46.08647 −22 48 01.90810	0.8	44.810	2.42	−2.59		−42.9	0.621	11.881	0	−22.8	170.2
J310441	2031-06-20 09:44:49.18	17 29 42.92011 −22 48 01.34840	1.3	0.932	1.95	−16.36	4.266	−2.1	8.972	13.848	12.629	208.3	174.5
Pgt	4117504195133384576	17 29 42.92241 −22 48 00.41677	0.8	2.884	2.42	−2.59		−3.2	0.453	13.630	0	−22.8	169.1
J310442	2031-06-20 21:38:17.40	17 29 26.60626 −22 47 43.03453	1.5	9.643	181.97	−16.33	4.267	28.2	9.397	14.414	13.172	29.4	174.0
Pgt	4111500247532158336	17 29 26.58226 −22 47 52.67165	0.9	29.841	2.45	−2.59		27.1	0.375	14.194	0	−22.8	163.2
J310443	2031-06-21 02:45:35.79	17 29 19.56895 −22 47 43.11309	1.3	6.209	181.98	−16.32	4.267	18.2	8.506	13.675	12.383	312.3	173.8
Pgt	4111500316251647232	17 29 19.55344 −22 47 49.31792	0.8	19.214	2.46	−2.59		17.1	0.610	13.454	0	−22.8	160.7
J310444*	2031-06-21 04:45:20.29	17 29 16.86479 −22 47 28.63246	1.9	19.387	181.98	−16.31	4.267	60.7	9.222	14.222	12.919	282.3	173.7
Pgt	4111500384971133312	17 29 16.81630 −22 47 48.00835	1.3	60.003	2.47	−2.59		59.8		14.001	0	−22.8	159.7
J310445	2031-06-23 11:09:46.68	17 28 02.60135 −22 47 10.38947	2.7	1.349	182.06	−16.15	4.271	4.4	8.972	14.873	13.456	183.6	171.2
Pgt	4111684965463732480	17 28 02.59784 −22 47 11.73779	1.8	4.179	2.60	−2.59		3.2	0.652	14.641	0	−22.8	132.6
J310446	2031-06-24 03:01:30.11	17 27 41.15991 −22 46 48.90531	1.7	12.080	182.09	−16.09	4.272	35.6	9.168	14.522	13.187	304.9	170.5
Pgt	4111687920401294464	17 27 41.12811 −22 47 00.97740	1.2	37.431	2.64	−2.59		34.4	0.496	14.286	0	−22.8	124.7
J310447	2031-06-24 11:55:25.04	17 27 29.14788 −22 46 44.76164	1.4	10.153	182.10	−16.06	4.273	29.8	9.792	14.686	13.462	171.0	170.1
Pgt	4111688603254659584	17 27 29.12099 −22 46 54.90817	1.0	31.467	2.66	−2.59		28.6	0.305	14.448	0	−22.8	120.2
J310448	2031-06-24 14:35:35.17	17 27 25.57043 −22 46 35.76819	2.8	17.327	182.10	−16.05	4.273	52.8	8.649	14.406	12.984	130.9	170.0
Pgt	4111688676315588352	17 27 25.52448 −22 46 53.08324	2.0	53.701	2.67	−2.59		51.7	0.762	14.166	0	−22.8	118.9
J310449*	2031-06-25 10:44:58.02	17 26 58.44439 −22 46 43.85964	22.4	4.617	2.13	−15.96	4.275	−12.5	9.797	14.463	13.196	187.6	169.1
Pgt	4111698915532344192	17 26 58.45680 −22 46 39.24600	15.6	14.316	2.72	−2.59		−13.8	0.276	14.218	0	−22.8	108.7
J310450	2031-06-26 16:19:48.71	17 26 19.06375 −22 46 07.05753	1.1	11.722	182.17	−15.82	4.279	34.6	9.185	13.320	12.215	102.5	167.8
Pgt	4111679154328766848	17 26 19.03168 −22 46 18.77074	0.7	36.375	2.79	−2.59		33.3	0.323	13.066	0	−22.8	93.4
J310451	2031-06-28 03:09:55.74	17 25 33.09710 −22 46 00.79311	5.6	6.333	2.21	−15.64	4.283	−17.4	7.634	14.917	13.309	298.3	166.2
Pgt	4111725402536603904	17 25 33.11478 −22 45 54.46525	3.8	19.672	2.87	−2.58		−18.8		14.651	0	−22.8	74.9
J310452	2031-06-28 08:30:22.69	17 25 26.15019 −22 45 42.65243	2.9	8.078	182.22	−15.61	4.284	23.9	8.874	14.803	13.372	218.0	166.0
Pgt	4111726124093505664	17 25 26.12758 −22 45 50.72474	2.1	25.100	2.88	−2.58		22.4	0.677	14.534	0	−22.8	72.0
J310453	2031-06-28 22:51:22.29	17 25 07.48604 −22 45 20.31602	1.5	20.361	182.23	−15.53	4.286	65.7	9.077	14.316	13.009	2.1	165.3
Pgt	4111723379654931712	17 25 07.42865 −22 45 40.66169	1.1	63.294	2.91	−2.58		64.5	0.494	14.042	0	−22.8	64.1
J310454	2031-06-29 13:49:55.25	17 24 48.03013 −22 45 30.68307	1.0	0.542	2.25	−15.44	4.288	−0.7	9.770	13.612	12.558	136.7	164.7
Pgt	4111723963771261696	17 24 48.03167 −22 45 30.14196	0.7	1.684	2.95	−2.58		−2.3	0.234	13.331	0	−22.8	55.7
J310455	2031-06-30 07:33:30.89	17 24 25.20333 −22 45 27.50895	1.6	9.841	2.27	−15.33	4.291	−27.6	8.174	13.599	12.226	230.0	163.9
Pgt	4111734374771451264	17 24 25.23156 −22 45 17.67607	1.2	30.627	2.99	−2.58		−29.2	0.771	13.310	0	−22.8	45.5

Table 4 *continued on next page*

Table 4 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310456	2031-06-30 10:44:38.72	17 24 21.13106 −22 45 23.28230	1.4	7.853	2.28	−15.31	4.292	−21.8	9.908	14.627	13.419	182.1	163.7
Pgt	4111734443490952320	17 24 21.15362 −22 45 15.43545	1.0	24.444	3.00	−2.58		−23.3	0.277	14.337	0	−22.8	43.6
J310457	2031-06-30 16:44:56.79	17 24 13.43734 −22 45 26.94148	2.8	15.742	2.28	−15.27	4.293	−46.2	7.232	11.454	10.348	91.7	163.5
Pgt	4111734512216101248	17 24 13.48271 −22 45 11.21167	2.0	49.012	3.01	−2.58		−47.7	0.912	11.161	0	−22.8	40.1
J310458	2031-06-30 22:25:22.57	17 24 06.21373 −22 45 21.37663	1.7	14.167	2.29	−15.24	4.294	−41.0	8.603	14.036	12.659	6.4	163.2
Pgt	4111734958887114368	17 24 06.25466 −22 45 07.22101	1.3	44.117	3.02	−2.58		−42.5	0.624	13.741	0	−22.8	36.8
J310459	2031-07-01 01:21:04.67	17 24 02.58837 −22 44 45.54002	1.0	19.637	182.29	−15.22	4.294	62.6	9.711	13.419	12.384	322.3	163.1
Pgt	4111735023265753856	17 24 02.53167 −22 45 05.16149	0.7	61.159	3.03	−2.58		61.2	0.231	13.122	0	−22.8	35.0
J310460	2031-07-01 02:25:30.44	17 24 01.18315 −22 44 59.08045	2.8	5.330	182.29	−15.21	4.294	16.1	7.735	13.725	12.254	306.1	163.0
Pgt	4111734993246887936	17 24 01.16774 −22 45 04.40630	1.9	16.601	3.03	−2.58		14.4		13.428	0	−22.8	34.4
J310461	2031-07-01 06:53:42.48	17 23 55.44640 −22 45 18.88734	1.4	17.639	2.30	−15.18	4.295	−53.0	9.375	14.198	12.933	238.9	162.8
Pgt	4111735091981620096	17 23 55.49756 −22 45 01.26296	0.9	54.947	3.04	−2.58		−54.5	0.359	13.899	0	−22.8	31.7
J310462	2031-07-02 06:46:26.48	17 23 25.47745 −22 44 24.03710	1.1	20.469	182.32	−15.01	4.299	66.7	9.755	13.106	12.156	239.6	161.8
Pgt	4111645172552342656	17 23 25.41764 −22 44 44.48903	0.7	63.827	3.10	−2.58		65.2		12.795	0	−22.8	17.2
J310463	2031-07-02 11:36:22.82	17 23 19.34022 −22 44 52.99457	1.3	11.904	2.33	−14.98	4.300	−33.9	9.683	11.934	11.219	166.9	161.6
Pgt	4111644833338057216	17 23 19.37514 −22 44 41.10003	0.8	37.129	3.11	−2.58		−35.5	0.179	11.620	0	−22.8	14.2
J310464	2031-07-03 14:18:14.21	17 22 46.33479 −22 44 00.09223	1.2	22.348	182.34	−14.78	4.306	79.4	8.342	12.848	11.684	125.2	160.4
Pgt	4114646878008686080	17 22 46.26876 −22 44 22.42181	0.8	69.787	3.17	−2.58		78.0	0.509	12.520	0	−22.8	3.2
J310465	2031-07-04 00:03:54.47	17 22 34.30323 −22 44 09.73675	2.0	5.887	182.35	−14.71	4.308	17.8	8.610	13.991	12.591	338.3	159.9
Pgt	4114646706210028672	17 22 34.28576 −22 44 15.61884	1.3	18.392	3.19	−2.58		16.0	0.638	13.657	0	−22.8	9.1
J310466	2031-07-04 05:39:47.50	17 22 27.41438 −22 44 21.70043	1.2	9.984	2.36	−14.67	4.309	−28.0	9.336	14.004	12.787	254.1	159.7
Pgt	4114646667493526016	17 22 27.44409 −22 44 11.72511	0.8	31.199	3.20	−2.58		−29.8	0.297	13.667	0	−22.8	12.6
J310467	2031-07-04 06:00:11.21	17 22 27.05939 −22 44 01.39801	1.9	10.099	182.36	−14.66	4.309	30.2	9.038	14.219	12.850	249.0	159.7
Pgt	4114649622431036416	17 22 27.02938 −22 44 11.48886	1.3	31.561	3.20	−2.57		28.4	0.470	13.882	0	−22.8	12.8
J310468	2031-07-05 02:24:11.24	17 22 02.22149 −22 44 21.11866	1.1	23.786	2.38	−14.50	4.313		9.097	13.853	12.603	302.0	158.8
Pt	4114644644624632064	17 22 02.29278 −22 43 57.35280	0.8	74.409	3.25	−2.57			0.400	13.504	0	−22.8	25.8
J310469	2031-07-06 09:36:46.74	17 21 25.02687 −22 43 42.71839	2.9	6.805	2.39	−14.24	4.320	−18.6	8.183	13.254	11.823	192.5	157.4
Pgt	4114655777181745792	17 21 25.04740 −22 43 35.91981	2.0	21.321	3.31	−2.57		−20.6	0.888	12.885	0	−22.8	45.7
J310470	2031-07-06 11:33:28.07	17 21 22.80230 −22 43 17.61573	2.4	16.992	182.39	−14.22	4.321	52.6	8.767	14.146	12.746	163.2	157.3
Pgt	4114655772822914304	17 21 22.75111 −22 43 34.59295	1.7	53.248	3.32	−2.57		50.8	0.584	13.776	0	−22.8	47.0
J310471	2031-07-07 09:10:38.96	17 20 57.47198 −22 43 03.61207	2.1	16.324	182.40	−14.03	4.326	50.3	9.028	14.319	12.939	197.9	156.3
Pgt	4114658491600967552	17 20 57.42260 −22 43 19.92182	1.4	51.216	3.36	−2.57		48.4	0.554	13.934	0	−22.7	60.5
J310472	2031-07-07 09:37:50.49	17 20 56.93738 −22 43 05.83755	1.1	13.790	182.40	−14.03	4.326	41.8	9.111	13.750	12.539	191.1	156.3
Pgt	4114658491600968064	17 20 56.89564 −22 43 19.61595	0.7	43.268	3.36	−2.57		39.9	0.413	13.365	0	−22.7	60.8
J310473	2031-07-08 00:13:36.24	17 20 39.94284 −22 43 33.14737	1.3	23.364	2.41	−13.90	4.330		9.933	14.264	13.162	331.5	155.7
Pt	4114635878537062528	17 20 40.01394 −22 43 09.80429	0.9	73.366	3.39	−2.57			0.222	13.869	0	−22.7	69.7
J310474	2031-07-10 08:38:25.54	17 19 36.51556 −22 42 10.33650	3.4	22.373	182.42	−13.36	4.345	82.2	8.054	14.177	12.668	202.7	153.2
Pgt	4114684982961374848	17 19 36.44739 −22 42 32.68975	2.5	70.497	3.51	−2.56		80.3	1.265	13.739	0	−22.7	102.8
J310475	2031-07-11 15:06:39.94	17 19 03.33276 −22 41 56.86916	1.1	16.420	182.42	−13.05	4.353	51.2	8.573	11.878	10.923	104.2	151.9
Pgt	4114691923628728832	17 19 03.28269 −22 42 13.27477	0.7	51.843	3.56	−2.56		49.0	0.405	11.415	0	−22.7	119.7
J310476	2031-07-11 19:09:25.27	17 18 58.91575 −22 42 19.86819	1.4	9.142	2.42	−13.01	4.354	−25.5	9.451	14.352	13.060	43.4	151.7
Pgt	4114691545671620608	17 18 58.94370 −22 42 10.73460	0.9	28.871	3.57	−2.56		−28.0	0.385	13.884	0	−22.7	121.9
J310477	2031-07-11 22:59:25.11	17 18 54.78433 −22 42 28.73721	1.0	20.419	2.43	−12.97	4.355	−66.0	7.984	9.019	8.628	345.7	151.5
Pgt	4114691580031381376	17 18 54.84683 −22 42 08.33640	0.6	64.502	3.58	−2.56		−68.1	0.323	8.548	0	−22.7	124.0
J310478	2031-07-12 03:30:35.60	17 18 50.09436 −22 41 45.78871	3.0	19.748	182.42	−12.92	4.357	64.8	8.253	14.074	12.591	277.7	151.3
Pgt	4114691854909340288	17 18 50.03419 −22 42 05.51964	2.0	62.403	3.59	−2.56		62.6	1.052	13.599	0	−22.7	126.4
J310479	2031-07-13 06:54:19.68	17 18 21.28733 −22 41 47.23942	2.0	1.472	182.42	−12.62	4.365	5.7	8.746	14.002	12.609	225.5	150.1
Pgt	4114694122652255104	17 18 21.28285 −22 41 48.71008	1.5	4.660	3.64	−2.56		2.9	0.603	13.502	0	−22.7	140.8
J310480	2031-07-15 03:07:44.24	17 17 36.43661 −22 41 20.69264	0.9	1.910	182.40	−12.12	4.379	7.1	8.605	12.218	11.223	280.2	148.2
Pgt	4114507270036368128	17 17 36.43084 −22 41 22.60092	0.6	6.066	3.72	−2.55		4.1	0.381	11.674	0	−22.7	163.4

Table 4 *continued on next page*

Table 4 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310481[a]	2031-07-15 13:49:31.91	17 17 25.83480 −22 41 31.66252	11.4	15.183	2.40	−12.00	4.383	−44.8	9.386	14.829		119.2	147.7
Pgt	4114507136900964352	17 17 25.88069 −22 41 16.49261	9.1	48.262	3.74	−2.55		−47.5	0.326	14.274	0	−22.7	168.8
J310482*[a]	2031-07-15 13:52:05.22	17 17 25.79072 −22 41 32.39944	5.5	15.945	2.40	−11.99	4.383	−47.5	9.386	14.176	12.576	118.6	147.7
Pgt	4114507136936399488	17 17 25.83892 −22 41 16.46846	3.8	50.683	3.74	−2.55		−50.1	0.326	13.621	0	−22.7	168.8
J310483	2031-07-15 21:34:02.10	17 17 18.37575 −22 40 53.13842	1.6	19.003	182.38	−11.90	4.385	62.1	9.515	14.017	12.822	2.7	147.4
Pgt	4114507858485617920	17 17 18.31870 −22 41 12.12491	1.0	60.439	3.75	−2.55		59.6	0.324	13.454	0	−22.7	172.6
J310484	2031-07-17 06:41:02.87	17 16 46.66373 −22 41 02.38327	1.0	8.417	2.36	−11.50	4.397	−23.2	9.121	13.120	12.042	224.5	145.9
Pgt	4114509370314680192	17 16 46.68881 −22 40 53.97363	0.6	26.839	3.81	−2.55		−26.4	0.364	12.520	0	−22.7	170.6
J310485	2031-07-18 13:47:48.10	17 16 18.04556 −22 40 41.02329	0.9	3.273	2.33	−11.11	4.408	−7.9	9.879	12.446	11.620	116.4	144.6
Pgt	4114516134844172032	17 16 18.05516 −22 40 37.75294	0.5	10.463	3.86	−2.55		−11.3	0.190	11.807	0	−22.7	155.2
J310486	2031-07-19 16:31:01.15	17 15 54.35043 −22 40 16.60806	3.0	7.912	182.29	−10.76	4.417	25.2	8.976	14.734	13.289	74.4	143.4
Pgt	4114516757657723648	17 15 54.32762 −22 40 24.51386	1.9	25.349	3.90	−2.54		21.6	0.651	14.061	0	−22.7	142.0
J310487	2031-07-19 22:35:56.45	17 15 49.01325 −22 40 31.09890	1.3	9.512	2.28	−10.68	4.420	−26.5	9.916	14.340	13.187	342.9	143.2
Pgt	4114516860736942464	17 15 49.04064 −22 40 21.59425	0.8	30.491	3.91	−2.54		−30.0	0.274	13.659	0	−22.7	139.0
J310488	2031-07-20 03:05:57.30	17 15 45.15419 −22 40 20.16944	2.4	0.713	2.27	−10.62	4.421	−0.2	8.661	14.381	12.956	275.2	143.0
Pgt	4114516895097189888	17 15 45.15623 −22 40 19.45687	1.6	2.287	3.92	−2.54		−4.0	0.769	13.693	0	−22.7	136.7
J310489	2031-07-23 23:47:01.76	17 14 30.43133 −22 39 47.21473	2.3	7.193	2.07	−9.33	4.458	−19.2	7.979	13.617	12.183	320.8	139.0
Pgt	4114543145938524160	17 14 30.45013 −22 39 40.02598	1.6	23.258	4.05	−2.53		−23.6	1.078	12.790	0	−22.7	89.9
J310490	2031-07-24 03:02:58.14	17 14 28.01142 −22 39 36.97047	0.9	1.837	182.06	−9.29	4.459	7.7	9.221	13.312	12.217	271.7	138.9
Pgt	4114543352096968576	17 14 28.00666 −22 39 38.80616	0.6	5.941	4.05	−2.53		3.2	0.361	12.479	0	−22.7	88.2
J310491	2031-08-08 13:43:44.67	17 11 20.26526 −22 38 31.37664	1.5	20.164	177.69	−3.34	4.635	79.4	8.075	12.590	11.383	95.5	123.4
Pgt	4115213607500187648	17 11 20.32402 −22 38 51.52401	0.9	67.786	4.39	−2.49		67.4	0.693	10.646	0	−22.7	129.6
J310492*	2031-08-09 17:58:11.41	17 11 13.50646 −22 38 37.39492	1.7	18.790	176.45	−2.84	4.650	72.5	9.679	11.743	11.051	30.7	122.2
Pgt	4115214324730802688	17 11 13.59052 −22 38 56.14892	1.0	63.373	4.40	−2.49		57.9	0.197	9.625	0	−22.7	144.7
J310493	2031-08-29 02:44:44.66	17 12 02.79818 −22 43 27.94855	1.1	16.268	8.63	5.95	4.921	−53.5	8.898	12.532	11.527	240.2	103.8
Pgt	4114459823584736512	17 12 02.97461 −22 43 11.86443	0.7	58.067	4.31	−2.43		−61.7	0.407	11.216	0	−22.8	30.9
J310494	2031-08-31 08:46:06.61	17 12 28.20465 −22 43 53.93236	1.2	8.813	188.02	7.00	4.955	33.4	9.040	13.621	12.482	147.7	101.7
Pgt	4114552904104665984	17 12 28.11573 −22 44 02.65920	0.8	31.671	4.27	−2.43		25.3	0.462	12.481	0	−22.8	64.2
J310495	2031-08-31 10:21:49.86	17 12 28.87132 −22 44 08.81127	3.8	4.636	7.99	7.03	4.956	−11.1	8.776	14.810	13.326	123.7	101.7
Pgt	4114552904104656768	17 12 28.91792 −22 44 04.22013	2.9	16.664	4.26	−2.43		−19.5	0.960	13.675	0	−22.8	65.1
J310496	2031-09-01 21:59:30.33	17 12 47.67131 −22 44 44.46673	1.8	4.549	7.66	7.72	4.978	−11.2	9.817	13.427	12.251	307.9	100.3
Pgt	4114549777368376704	17 12 47.71515 −22 44 39.95839	1.2	16.424	4.23	−2.42		−18.9	0.222	12.393	0	−22.8	86.9
J310497	2031-09-03 07:06:38.02	17 13 06.53535 −22 45 31.85870	2.8	17.344	7.38	8.36	4.999	−61.5	7.145	12.321	10.946	169.9	99.0
Pgt	4114549188915773568	17 13 06.69651 −22 45 14.65863	1.8	62.883	4.20	−2.42		−67.4	1.565	11.374	0	−22.8	106.6
J310498	2031-09-03 14:46:11.41	17 13 11.40020 −22 45 11.22467	1.5	11.753	187.35	8.51	5.004	43.4	9.644	13.977	12.805	54.7	98.7
Pgt	4114549158892964608	17 13 11.29146 −22 45 22.88092	0.9	42.653	4.19	−2.42		37.0	0.349	13.049	0	−22.8	111.0
J310499	2031-09-07 18:35:25.86	17 14 18.01110 −22 47 35.81528	1.1	19.465	6.70	10.44	5.067		9.304	13.095	12.049	353.5	95.0
Pt	4114539739987659520	17 14 18.17522 −22 47 16.48272	0.7	71.534	4.07	−2.40			0.369	12.390	0	−22.8	164.9
J310500	2031-09-07 23:23:29.71	17 14 21.73299 −22 47 20.44351	1.8	1.804	186.68	10.54	5.070	9.1	9.859	14.602	13.405	281.4	94.8
Pgt	4114539847403507840	17 14 21.71781 −22 47 22.23491	1.2	6.632	4.06	−2.40		3.1		13.906	0	−22.8	167.3
J310501	2031-09-11 04:58:33.96	17 15 22.90727 −22 49 15.03014	1.2	16.588	6.28	12.05	5.119	−60.3	9.408	13.579	12.471	194.7	91.9
Pgt	4114490712974433792	17 15 23.03860 −22 48 58.54181	0.7	61.591	3.96	−2.39		−64.7	0.382	13.028	0	−22.8	154.0
J310502	2031-09-11 23:38:34.26	17 15 39.04330 −22 49 08.10942	1.5	14.584	186.22	12.41	5.131	55.1	9.727	14.155	12.999	274.0	91.2
Pgt	4114513321683839360	17 15 38.92905 −22 49 22.60733	1.0	54.275	3.93	−2.39		50.7	0.356	13.637	0	−22.9	144.9
J310503	2031-09-14 14:47:13.88	17 16 35.75477 −22 51 06.20429	1.1	19.951	5.93	13.63	5.172		8.907	12.473	11.482	44.4	88.9
Pt	4114498989334728832	17 16 35.90381 −22 50 46.35982	0.7	74.834	3.83	−2.38				12.057	0	−22.9	113.6
J310504	2031-09-15 03:41:06.84	17 16 48.22397 −22 50 53.97244	1.8	9.967	185.89	13.88	5.180	37.2	9.585	14.156	12.964	210.5	88.4
Pgt	4114498306478572416	17 16 48.14998 −22 51 03.88661	1.1	37.444	3.80	−2.38		32.8	0.396	13.760	0	−22.9	107.1
J310505	2031-09-15 05:03:21.97	17 16 49.48200 −22 51 03.27797	1.5	2.492	185.88	13.91	5.181	10.9	8.977	10.927	10.275	189.9	88.3
Pgt	4114498306478570624	17 16 49.46353 −22 51 05.75724	1.0	9.365	3.80	−2.38		6.2	0.327	10.532	0	−22.9	106.4

Table 4 *continued on next page*

Table 4 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310506	2031-09-15 06:36:07.54	17 16 50.81977 −22 51 25.07530	1.5	17.297	5.86	13.94	5.182	−66.1	8.059	11.694	10.685	166.6	88.3
Pgt	4114498100320136832	17 16 50.94762 −22 51 07.86861	0.9	65.006	3.80	−2.38		−69.8	0.679	11.302	0	−22.9	105.6
J310507	2031-09-15 20:27:24.03	17 17 04.32714 −22 51 33.65672	1.5	6.819	5.81	14.21	5.191	−21.5	9.146	13.561	12.407	318.3	87.8
Pgt	4114310874130741504	17 17 04.37711 −22 51 26.87311	0.9	25.670	3.78	−2.38		−25.9	0.463	13.189	0	−22.9	98.5
J310508	2031-09-16 22:30:16.53	17 17 30.24540 −22 52 04.87682	1.4	1.887	5.72	14.71	5.207	−4.3	9.315	13.899	12.732	286.6	86.8
Pgt	4114315542696485632	17 17 30.25900 −22 52 02.99969	1.0	7.125	3.73	−2.38		−8.8	0.441	13.566	0	−22.9	85.0
J310509	2031-09-17 12:27:21.95	17 17 44.52959 −22 52 12.58938	1.5	10.011	185.67	14.98	5.216	37.5	8.988	13.980	12.722	76.8	86.3
Pgt	4114312901354775936	17 17 44.45805 −22 52 22.55104	1.0	37.871	3.70	−2.37		33.4	0.504	13.666	0	−22.9	77.7
J310510	2031-09-18 04:50:29.46	17 18 01.43282 −22 52 45.65632	1.5	0.030	185.61	15.29	5.227	2.3	9.913	14.254	13.117	190.4	85.7
Pgt	4114313485470284672	17 18 01.43261 −22 52 45.68592	1.0	0.113	3.67	−2.37		−2.1	0.307	13.963	0	−22.9	69.0
J310511	2031-09-18 18:49:13.27	17 18 16.06885 −22 53 19.63982	3.2	14.142	5.54	15.56	5.235	−50.4	6.622	12.141	10.730	340.2	85.2
Pgt	4114301528282065280	17 18 16.16770 −22 53 05.56364	2.1	53.700	3.65	−2.37		−54.1	2.182	11.869	0	−22.9	61.5
J310512	2031-09-18 20:09:52.21	17 18 17.73341 −22 52 48.05604	5.4	19.517	185.55	15.58	5.236		7.224	14.456	12.835	320.0	85.1
P	4114313313671558656	17 18 17.59672 −22 53 07.48154	3.6	74.121	3.64	−2.37				14.185	0	−22.9	60.7
J310513	2031-09-19 05:53:40.32	17 18 27.98599 −22 53 24.04136	1.0	2.655	5.51	15.77	5.242	−7.1	8.992	12.344	11.387	173.7	84.8
Pgt	4114301665720226816	17 18 28.00443 −22 53 21.39837	0.6	10.096	3.63	−2.37		−11.4	0.398	12.086	0	−22.9	55.5
J310514	2031-09-19 16:57:07.60	17 18 40.08823 −22 53 19.90263	1.0	17.462	185.48	15.98	5.250	72.4	9.435	12.746	11.777	7.5	84.4
Pgt	4114300978525430912	17 18 39.96761 −22 53 37.28497	0.6	66.484	3.61	−2.37		69.0	0.319	12.502	0	−22.9	49.4
J310515	2031-09-19 21:08:16.01	17 18 44.64065 −22 53 27.87533	1.3	15.513	185.46	16.06	5.252	60.8	9.850	13.770	12.695	304.5	84.2
Pgt	4114300944165681408	17 18 44.53381 −22 53 43.31794	0.9	59.093	3.60	−2.37		57.3	0.300	13.532	0	−22.9	47.1
J310516	2031-09-20 23:01:14.61	17 19 13.14128 −22 54 33.28219	1.4	12.490	5.36	16.55	5.269	−43.7	9.867	13.591	12.556	275.3	83.3
Pgt	4114673231930646784	17 19 13.22566 −22 54 20.84665	0.9	47.726	3.55	−2.36		−47.4	0.282	13.386	0	−22.9	32.8
J310517	2031-09-21 18:27:24.54	17 19 35.27047 −22 54 51.17635	1.2	1.918	5.29	16.92	5.281	−4.7	9.312	12.884	11.877	343.1	82.6
Pgt	4114626846278644608	17 19 35.28327 −22 54 49.26692	0.8	7.345	3.51	−2.36		−8.8	0.344	12.702	0	−22.9	22.0
J310518	2031-09-22 05:48:02.33	17 19 48.27147 −22 55 19.14282	3.3	13.256	5.25	17.13	5.288	−47.2	8.132	13.743	12.304	172.5	82.1
Pgt	4114626640120155136	17 19 48.35924 −22 55 05.94248	2.1	50.840	3.48	−2.36		−50.7	0.833	13.575	0	−22.9	15.6
J310519	2031-09-22 11:35:01.26	17 19 55.17036 −22 55 01.11902	4.0	13.404	185.24	17.24	5.292	51.4	7.646	13.511	12.012	85.6	81.9
Pgt	4114625918565629184	17 19 55.08176 −22 55 14.46688	2.8	51.443	3.47	−2.36		47.9	1.503	13.350	0	−22.9	12.4
J310520	2031-09-23 08:51:11.10	17 20 20.07827 −22 55 54.32219	1.6	8.407	5.16	17.64	5.305	−28.2	9.549	14.378	13.132	125.7	81.2
Pgt	4114623101066955776	17 20 20.13298 −22 55 45.94878	1.1	32.349	3.43	−2.35		−31.9	0.425	14.242	0	−23.0	2.5
J310521	2031-09-24 06:11:02.94	17 20 45.64869 −22 56 36.70839	1.8	19.070	5.08	18.04	5.319		9.689	14.489	13.200	165.0	80.4
Pt	4114628147597782912	17 20 45.77096 −22 56 17.71327	1.2	73.561	3.38	−2.35			0.399	14.377	0	−23.0	12.7
J310522	2031-09-24 07:04:32.16	17 20 46.80994 −22 56 25.80126	5.3	6.783	5.08	18.05	5.319	−22.3	7.370	14.045	12.464	151.6	80.4
Pgt	4114628151949072384	17 20 46.85345 −22 56 19.04455	3.7	26.169	3.38	−2.35		−26.0	2.470	13.933	0	−23.0	13.2
J310523	2031-09-24 22:32:55.66	17 21 05.81273 −22 56 37.61769	3.1	4.599	185.04	18.34	5.329	18.2	8.760	14.285	12.846	279.0	79.8
Pgt	4114616297837874944	17 21 05.78351 −22 56 42.19859	2.2	17.773	3.35	−2.35		14.4	0.879	14.191	0	−23.0	22.2
J310524	2031-09-25 10:42:14.38	17 21 20.91993 −22 56 48.02336	3.6	12.470	185.00	18.57	5.336	47.8	7.870	13.584	12.125	96.2	79.4
Pgt	4114617015037743872	17 21 20.84127 −22 57 00.44642	2.4	48.266	3.32	−2.35		44.5	1.317	13.503	0	−23.0	29.3
J310525	2031-09-25 15:53:04.47	17 21 27.42037 −22 56 50.51816	1.3	17.787	184.98	18.66	5.340	77.6	9.543	12.949	11.990	18.3	79.2
Pg	4114616778874072960	17 21 27.30851 −22 57 08.23808	0.9	68.885	3.31	−2.35		74.6		12.873	0	−23.0	32.3
J310526	2031-09-26 21:38:10.11	17 22 04.99491 −22 57 56.37088	5.2	3.249	4.88	19.21	5.358	−9.7	7.739	13.834	12.310	291.0	78.1
Pgt	4114636428291079040	17 22 05.01491 −22 57 53.13403	3.4	12.625	3.24	−2.34		−13.4	1.618	13.790	0	−23.0	50.0
J310527	2031-09-27 23:10:33.68	17 22 38.05943 −22 58 46.79993	1.8	15.000	4.79	19.67	5.374	−56.7	9.707	14.399	13.168	267.0	77.2
Pgt	4111633322824553728	17 22 38.15011 −22 58 31.85193	1.2	58.468	3.18	−2.34		−59.7	0.380	14.381	0	−23.0	65.2
J310528	2031-09-28 17:42:25.08	17 23 02.73530 −22 58 42.49279	1.7	17.593	184.74	20.01	5.386	77.1	9.417	14.106	12.865	348.3	76.5
Pgt	4111632047131659776	17 23 02.63002 −22 59 00.02595	1.0	68.722	3.14	−2.34		74.3		14.106	0	−23.0	76.3
J310529	2031-09-29 06:48:18.31	17 23 20.07618 −22 59 33.17093	4.8	13.242	4.69	20.25	5.394	−48.5	7.537	14.174	12.609	151.4	76.1
Pgt	4111631085076829568	17 23 20.15452 −22 59 19.97312	3.1	51.803	3.11	−2.33		−51.6	2.264	14.187	0	−23.0	84.0
J310530	2031-09-30 15:48:04.70	17 24 05.06195 −23 00 16.77446	4.5	6.491	4.58	20.84	5.414	−21.8	8.456	14.763	13.229	15.3	74.9
Pgt	4111624423621587712	17 24 05.09950 −23 00 10.30453	3.0	25.487	3.03	−2.33		−25.2		14.808	0	−23.0	103.3

Table 4 *continued on next page*

Table 4 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310531	2031-10-02 01:59:15.09	17 24 52.87893 −23 00 58.98620	4.3	3.534	184.47	21.45	5.435	14.5	8.463	14.609	13.120	221.3	73.7
Pgt	4111575254858968704	17 24 52.85897 −23 01 02.50983	2.9	13.933	2.94	−2.32		11.1	1.259	14.685	0	−23.0	122.8
J310532	2031-10-03 23:25:19.53	17 25 58.27452 −23 01 54.73355	1.9	17.153	184.33	22.25	5.463	75.2	9.168	14.260	12.994	258.2	72.1
Pgt	4111665724006038272	17 25 58.18075 −23 02 11.83755	1.4	67.961	2.82	−2.32		72.5	0.558	14.376	0	−23.1	147.6
J310533	2031-10-05 18:16:22.32	17 27 01.74243 −23 03 06.88622	1.3	10.142	184.18	23.01	5.489	39.4	9.742	12.837	11.922	333.9	70.5
Pgt	4111656206357980672	17 27 01.68881 −23 03 17.00148	0.8	40.375	2.71	−2.31		36.4	0.259	12.989	0	−23.1	169.6
J310534	2031-10-05 19:53:48.69	17 27 04.09550 −23 03 26.30550	1.4	6.859	4.17	23.03	5.490	−23.6	9.163	13.114	12.047	309.5	70.5
Pgt	4111655553523919360	17 27 04.13167 −23 03 19.46466	0.9	27.309	2.71	−2.31		−26.8	0.404	13.268	0	−23.1	170.4
J310535	2031-10-05 23:32:49.48	17 27 09.53538 −23 03 43.34338	1.8	18.393	4.16	23.10	5.492		9.907	14.248	13.113	254.6	70.4
P	4111655484803371008	17 27 09.63201 −23 03 24.99901	1.2	73.261	2.70	−2.31			0.293	14.404	0	−23.1	172.1
J310536	2031-10-06 13:10:23.49	17 27 30.24629 −23 03 52.14912	1.3	6.535	4.12	23.34	5.500	−22.5	9.560	13.624	12.535	49.8	69.9
Pgt	4111469113250254720	17 27 30.28028 −23 03 45.63080	0.9	26.069	2.66	−2.31		−25.7	0.357	13.791	0	−23.1	177.2
J310537	2031-10-06 17:07:38.45	17 27 36.38481 −23 03 36.47769	1.8	15.170	184.11	23.40	5.502	62.4	7.944	12.683	11.487	350.3	69.7
Pgt	4111469319408709504	17 27 36.30603 −23 03 51.60914	1.2	60.542	2.65	−2.31		59.6	0.904	12.854	0	−23.1	177.0
J310538	2031-10-07 01:02:40.59	17 27 48.43153 −23 04 00.71489	4.7	2.859	184.08	23.54	5.507	12.1	9.009	14.905	13.457	231.3	69.5
Pgt	4111468563494423424	17 27 48.41679 −23 04 03.56685	3.0	11.420	2.63	−2.31		8.8	0.840	15.082	0	−23.1	174.0
J310539	2031-10-07 06:37:00.63	17 27 56.95671 −23 04 15.92474	1.9	3.962	4.06	23.64	5.510	−12.9	9.518	14.511	13.257	147.5	69.3
Pgt	4111468322976235008	17 27 56.97704 −23 04 11.97249	1.2	15.835	2.61	−2.31		−16.2	0.396	14.692	0	−23.1	171.5
J310540	2031-10-07 16:50:58.51	17 28 12.84763 −23 04 13.31849	2.2	14.101	184.03	23.81	5.517	56.9	9.260	14.590	13.290	353.6	68.9
Pgt	4111488702659692928	17 28 12.77581 −23 04 27.38499	1.5	56.420	2.58	−2.30		54.2	0.592	14.780	0	−23.1	166.6
J310541	2031-10-07 23:02:29.02	17 28 22.45573 −23 04 22.76478	2.0	13.965	184.01	23.92	5.520	56.3	8.558	13.983	12.663	260.6	68.7
Pgt	4111488290342805888	17 28 22.38497 −23 04 36.69526	1.3	55.910	2.57	−2.30		53.5	0.840	14.177	0	−23.1	163.6
J310542	2031-10-08 11:06:43.90	17 28 41.24104 −23 04 51.30432	6.3	3.513	183.97	24.13	5.527	14.5	7.137	14.169	12.573	79.1	68.3
Pgt	4111476367513529856	17 28 41.22343 −23 04 54.80841	4.0	14.081	2.53	−2.30		11.3		14.372	0	−23.1	157.8
J310543	2031-10-08 15:48:09.21	17 28 48.63342 −23 04 51.35624	1.5	10.502	183.95	24.21	5.530	41.2	9.838	13.690	12.619	8.6	68.1
Pgt	4111477771904250496	17 28 48.58096 −23 05 01.83289	1.0	42.121	2.52	−2.30		38.2		13.897	0	−23.1	155.5
J310544	2031-10-09 03:45:07.80	17 29 07.35073 −23 05 33.81630	2.2	14.156	3.91	24.41	5.537	−54.7	8.802	14.162	12.833	188.9	67.7
Pgt	4111476844191248384	17 29 07.42062 −23 05 19.69298	1.4	56.851	2.49	−2.30		−57.5	0.737	14.379	0	−23.1	149.7
J310545	2031-10-10 07:48:07.10	17 29 52.22010 −23 05 52.36860	2.3	9.044	183.82	24.89	5.554	35.5	8.883	14.471	13.081	127.2	66.7
Pgt	4111479219372425728	17 29 52.17644 −23 06 01.39284	1.5	36.430	2.41	−2.30		32.5	0.793	14.708	0	−23.1	136.1
J310546*	2031-10-10 12:36:00.59	17 29 59.99433 −23 05 50.17109	8.8	18.361	183.81	24.97	5.557		8.604	14.555	13.021	55.1	66.5
Pt	4111479185012663296	17 29 59.90602 −23 06 08.49180	6.1	73.995	2.39	−2.29				14.796	0	−23.1	133.7
J310547	2031-10-10 14:19:36.22	17 30 02.70238 −23 06 09.01978	3.4	2.028	183.79	25.00	5.558	9.1	8.578	14.613	13.144	29.1	66.5
Pgt	4111432249602528640	17 30 02.69265 −23 06 11.04373	2.2	8.176	2.39	−2.29		5.9	1.138	14.856	0	−23.1	132.9
J310548	2031-10-10 22:50:32.15	17 30 16.41540 −23 06 36.61324	3.7	13.031	3.76	25.14	5.563	−49.6	8.686	14.627	13.174	261.1	66.2
Pgt	4111433520912809472	17 30 16.47739 −23 06 23.60999	2.4	52.573	2.36	−2.29		−52.3		14.875	0	−23.1	128.7
J310549*	2031-10-11 03:08:42.67	17 30 23.53662 −23 06 15.67129	46.1	14.306	183.76	25.22	5.565	58.6	8.728	10.535	9.898	196.4	66.0
Pgt	4111432799358057472	17 30 23.46870 −23 06 29.94682	31.8	57.742	2.35	−2.29		55.9	0.355	10.787	0	−23.1	126.6
J310550	2031-10-11 10:22:51.93	17 30 35.31643 −23 06 29.58656	1.9	11.019	183.73	25.34	5.569	43.6	7.844	12.978	11.701	87.6	65.8
Pgt	4111432588848173696	17 30 35.26447 −23 06 40.58264	1.2	44.510	2.33	−2.29		40.7	0.994	13.235	0	−23.1	123.0
J310551	2031-10-11 12:12:25.31	17 30 38.24572 −23 06 43.90376	2.7	0.643	3.72	25.37	5.570	−0.8	8.050	13.600	12.220	60.1	65.7
Pgt	4111432966805279872	17 30 38.24875 −23 06 43.26239	1.7	2.597	2.32	−2.29		−4.0	1.168	13.858	0	−23.1	122.1
J310552	2031-10-11 13:39:36.96	17 30 40.60788 −23 06 49.26154	2.0	3.876	3.72	25.39	5.571	−12.8	9.374	14.253	13.026	38.3	65.7
Pgt	4111430011867754240	17 30 40.62609 −23 06 45.39395	1.3	15.660	2.32	−2.29		−15.9	0.476	14.513	0	−23.1	121.4
J310553	2031-10-11 18:57:22.04	17 30 49.26921 −23 07 01.00827	1.5	7.872	3.70	25.48	5.574	−28.0	9.011	12.953	11.866	318.7	65.5
Pgt	4111429771349572352	17 30 49.30599 −23 06 53.15254	1.0	31.825	2.30	−2.29		−31.0	0.470	13.216	0	−23.1	118.8
J310554	2031-10-12 17:06:46.82	17 31 25.84415 −23 07 37.70472	2.0	12.277	3.62	25.85	5.587	−46.4	9.140	14.324	13.032	345.6	64.7
Pgt	4117422281516021760	17 31 25.90034 −23 07 25.45178	1.4	49.749	2.24	−2.29		−49.1	0.597	14.602	0	−23.1	107.7
J310555	2031-10-13 11:11:22.97	17 31 56.09556 −23 07 50.35544	4.9	1.246	183.56	26.16	5.597	6.2	8.680	14.672	13.212	73.8	64.1
Pgt	4117422595110657920	17 31 56.08995 −23 07 51.59938	3.3	5.060	2.18	−2.28		3.1	1.024	14.964	0	−23.2	98.5

Table 4 *continued on next page*

Table 4 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310556	2031-10-13 13:51:26.78	17 32 00.49070 −23 08 13.15099	2.8	17.743	3.55	26.20	5.599		9.840	14.925	13.671	33.7	64.0
Pt	4117419743252310656	17 32 00.57031 −23 07 55.44164	1.7	72.051	2.18	−2.28			0.417	15.218	0	−23.2	97.1
J310557	2031-10-14 22:16:10.59	17 32 55.53670 −23 08 36.72284	1.7	5.052	183.44	26.73	5.617	20.5	9.447	14.202	12.990	266.4	62.9
Pgt	4116674338739143680	17 32 55.51470 −23 08 41.76588	1.1	20.583	2.08	−2.28		17.4	0.462	14.517	0	−23.2	80.1
J310558	2031-10-16 04:22:31.80	17 33 47.38833 −23 09 23.06040	4.4	1.099	183.34	27.22	5.634	5.7	7.645	14.264	12.691	173.8	61.8
Pgt	4116671353819474560	17 33 47.38368 −23 09 24.15799	3.0	4.493	1.98	−2.27		2.6	1.055	14.599	0	−23.2	63.9
J310559	2031-10-16 13:25:00.75	17 34 03.12043 −23 09 35.68166	1.9	1.082	183.31	27.37	5.639	5.6	8.368	13.687	12.361	37.9	61.5
Pgt	4116682933064287104	17 34 03.11590 −23 09 36.76142	1.2	4.424	1.96	−2.27		2.5	0.811	14.027	0	−23.2	58.9
J310560	2031-10-16 14:16:55.47	17 34 04.63092 −23 09 36.57811	3.5	1.388	183.31	27.39	5.640	6.7	7.517	13.405	11.951	24.9	61.5
Pgt	4116682859951439360	17 34 04.62511 −23 09 37.96427	2.3	5.679	1.95	−2.27		3.7	1.639	13.746	0	−23.2	58.4
J310561	2031-10-16 17:39:04.71	17 34 10.52035 −23 09 39.77842	2.5	2.869	183.30	27.44	5.642	12.3	9.792	14.641	13.411	334.2	61.3
Pgt	4116682688152736640	17 34 10.50839 −23 09 42.64291	1.5	11.740	1.94	−2.27		9.2	0.389	14.984	0	−23.2	56.6
J310562	2031-10-17 03:23:02.79	17 34 27.48991 −23 10 12.66954	3.7	16.588	3.26	27.59	5.647	−72.6	9.147	14.912	13.469	187.9	61.0
Pgt	4116682108430482304	17 34 27.55826 −23 09 56.10881	2.4	67.939	1.91	−2.27		−75.0	0.761	15.261	0	−23.2	51.2
J310563	2031-10-17 04:19:28.29	17 34 29.27959 −23 09 40.55446	2.9	16.879	183.26	27.61	5.648	78.0	8.587	14.016	12.655	173.7	61.0
Pg	4116682142790223616	17 34 29.20995 −23 09 57.40599	1.9	69.138	1.91	−2.27		75.6	0.822	14.366	0	−23.2	50.7
J310564	2031-10-17 07:26:16.53	17 34 34.69386 −23 09 59.17127	1.4	2.528	183.25	27.66	5.649	11.0	9.668	12.152	11.331	126.9	60.9
Pgt	4116682172755761920	17 34 34.68348 −23 10 01.69555	0.9	10.360	1.90	−2.27		8.0	0.228	12.504	0	−23.2	48.9
J310565	2031-10-17 08:52:17.28	17 34 37.24533 −23 09 54.21747	3.0	9.466	183.24	27.68	5.650	37.7	8.668	14.307	12.900	105.4	60.8
Pgt	4116682172756641152	17 34 37.20648 −23 10 03.66806	1.9	38.790	1.90	−2.27		34.9	0.912	14.660	0	−23.2	48.1
J310566	2031-10-17 09:09:44.23	17 34 37.69758 −23 10 09.17303	4.4	5.113	3.24	27.69	5.650	−17.8	7.811	14.569	12.854	101.0	60.8
Pgt	4116682172756605312	17 34 37.71853 −23 10 04.06802	2.8	20.954	1.89	−2.27		−20.8		14.922	0	−23.2	48.0
J310567	2031-10-18 00:19:30.66	17 35 04.49556 −23 10 29.79697	2.1	4.977	3.19	27.93	5.659	−17.3	9.565	14.742	13.462	233.1	60.3
Pgt	4116679733215150080	17 35 04.51563 −23 10 24.82736	1.3	20.428	1.85	−2.27		−20.3	0.514	15.105	0	−23.2	39.4
J310568	2031-10-18 12:42:39.46	17 35 26.47794 −23 10 59.75895	6.4	18.142	3.14	28.13	5.666		7.802	14.949	13.351	46.9	59.9
Pt	4116633008342367488	17 35 26.55006 −23 10 41.64467	3.7	74.546	1.81	−2.26				15.319	0	−23.2	32.4
J310569	2031-10-18 12:58:56.45	17 35 26.97439 −23 10 57.06235	2.1	15.073	3.14	28.13	5.666	−61.8	9.579	14.759	13.496	42.8	59.8
Pgt	4116633008342365952	17 35 27.03431 −23 10 42.01171	1.2	61.940	1.81	−2.26		−64.3	0.520	15.129	0	−23.2	32.3
J310570	2031-10-18 19:50:51.06	17 35 39.32875 −23 10 45.20987	3.3	6.075	183.12	28.24	5.670	24.5	9.039	14.680	13.276	299.6	59.6
Pgt	4116637887426642176	17 35 39.30474 −23 10 51.27554	1.8	24.979	1.78	−2.26		21.6	0.785	15.055	0	−23.2	28.4
J310571	2031-10-18 22:18:02.78	17 35 43.76588 −23 10 37.66222	4.0	16.939	183.12	28.28	5.671	79.6	8.906	14.894	13.415	262.7	59.5
Pgt	4116637986133023360	17 35 43.69908 −23 10 54.57608	2.1	69.669	1.78	−2.26		77.2	0.798	15.270	0	−23.2	27.0
J310572	2031-10-19 06:25:28.22	17 35 58.23633 −23 11 18.22341	6.1	12.774	3.08	28.40	5.675	−49.7	8.496	14.907	13.376	140.6	59.2
Pgt	4116635104287782912	17 35 58.28616 −23 11 05.46803	3.1	52.580	1.75	−2.26		−52.3		15.288	0	−23.2	22.3
J310573	2031-10-19 09:56:33.02	17 36 04.62867 −23 11 07.97420	2.4	2.196	183.07	28.46	5.677	9.8	9.975	14.557	13.381	87.7	59.1
Pgt	4116635168634433792	17 36 04.62013 −23 11 10.16682	1.2	9.041	1.74	−2.26		6.8	0.277	14.940	0	−23.2	20.3
J310574	2031-10-19 11:18:57.43	17 36 07.12486 −23 11 04.51328	1.7	7.496	183.07	28.48	5.678	30.1	8.758	12.207	11.215	67.0	59.1
Pgt	4116635168633677312	17 36 07.09574 −23 11 11.99828	0.9	30.868	1.73	−2.26		27.2	0.422	12.591	0	−23.2	19.6
J310575	2031-10-20 04:55:09.27	17 36 39.00094 −23 11 25.76829	1.8	9.566	183.01	28.76	5.688	38.4	9.488	13.718	12.581	162.4	58.5
Pgt	4116624109168188800	17 36 38.96451 −23 11 35.32136	0.9	39.462	1.68	−2.26		35.6	0.415	14.112	0	−23.2	9.6
J310576	2031-10-21 12:52:41.39	17 37 37.48320 −23 12 12.84317	5.5	4.081	182.90	29.25	5.705	17.0	7.687	14.574	13.005	41.9	57.4
Pgt	4116714097316128512	17 37 37.46824 −23 12 16.91935	2.7	16.887	1.57	−2.25		14.0		14.987	0	−23.2	9.8
J310577	2031-10-21 21:58:08.71	17 37 54.29252 −23 12 19.64806	1.5	8.933	182.87	29.39	5.710	36.0	8.840	13.170	11.923	265.3	57.1
Pgt	4116714612712081536	17 37 54.26011 −23 12 28.56992	0.7	36.992	1.54	−2.25		33.2	0.442	13.588	0	−23.2	15.0

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

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

Table 5. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K ≤ 10 (part 5 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310578	2031-10-22 02:49:29.09	17 38 03.21090 −23 12 47.27454	3.7	12.531	2.85	29.46	5.712	−48.9	9.167	14.811	13.387	192.3	56.9
Pgt	4116526901096525824	17 38 03.25603 −23 12 34.75855	2.4	51.917	1.53	−2.25		−51.5		15.232	0	−23.2	17.7
J310579	2031-10-22 03:26:24.82	17 38 04.39897 −23 12 35.17278	1.4	0.369	182.85	29.47	5.713	2.9	9.573	12.669	11.760	183.0	56.9
Pgt	4116526901096562432	17 38 04.39764 −23 12 35.54127	0.7	1.529	1.52	−2.25		−0.1	0.266	13.090	0	−23.2	18.1
J310580	2031-10-22 05:59:51.00	17 38 09.15369 −23 12 36.12998	4.4	2.663	182.84	29.51	5.714	11.6	8.775	14.860	13.385	144.6	56.8
Pgt	4116527072895252992	17 38 09.14413 −23 12 38.78924	2.4	11.034	1.52	−2.25		8.6	0.910	15.282	0	−23.2	19.6
J310581	2031-10-22 06:24:36.16	17 38 09.93127 −23 12 33.48553	1.7	5.834	182.84	29.51	5.714	23.8	9.391	13.569	12.445	138.4	56.8
Pgt	4116527072895252864	17 38 09.91032 −23 12 39.31258	0.9	24.179	1.51	−2.25		20.8	0.351	13.991	0	−23.2	19.8
J310582*	2031-10-22 07:08:55.66	17 38 11.24840 −23 12 49.80767	9.1	9.570	2.83	29.52	5.715	−35.8	9.910	13.993	12.880	127.3	56.7
Pgt	4116527077318050944	17 38 11.28269 −23 12 40.24929	4.5	39.664	1.51	−2.25		−38.6	0.268	14.415	0	−23.2	20.2
J310583*[a]	2031-10-22 11:59:01.01	17 38 20.33680 −23 12 29.01476	37.2	17.372	182.82	29.60	5.717		7.992	10.293	8.813	54.6	56.6
Pt	4116526390075564160	17 38 20.27481 −23 12 46.36573	26.9	72.033	1.50	−2.25			0.454	10.719	0	−23.2	23.0
J310584*[a]	2031-10-22 12:01:41.31	17 38 20.41920 −23 12 29.21134	11.8	17.231	182.82	29.60	5.717	88.0	7.992	9.739	8.816	53.9	56.6
Pgt	4116526385697128704	17 38 20.35771 −23 12 46.42195	6.7	71.450	1.50	−2.25		86.6	0.455	10.164	0	−23.2	23.0
J310585	2031-10-22 12:10:34.60	17 38 20.64875 −23 12 42.33869	3.9	4.275	182.82	29.60	5.717	17.8	8.103	14.177	12.702	51.7	56.6
Pgt	4116526385700517632	17 38 20.63351 −23 12 46.60896	2.1	17.728	1.49	−2.25		14.8		14.602	0	−23.2	23.1
J310586	2031-10-22 16:18:40.01	17 38 28.27342 −23 13 10.26709	2.9	18.469	2.80	29.66	5.719		8.928	14.491	13.133	349.5	56.4
P	4116526149605001472	17 38 28.33881 −23 12 51.81976	1.5	76.614	1.48	−2.25				14.918	0	−23.2	25.5
J310587	2031-10-22 17:34:29.55	17 38 30.71174 −23 12 49.10615	6.5	4.308	182.80	29.68	5.720	17.9	7.557	14.277	12.720	330.5	56.4
Pgt	4116532020717382784	17 38 30.69649 −23 12 53.40881	3.4	17.871	1.48	−2.25		14.9		14.705	0	−23.2	26.3
J310588	2031-10-23 01:04:17.53	17 38 44.66619 −23 13 14.69033	3.4	11.904	2.77	29.79	5.724	−46.1	9.655	14.805	13.528	217.8	56.1
Pgt	4116529070133438464	17 38 44.70789 −23 13 02.80060	1.6	49.418	1.45	−2.25		−48.7	0.463	15.237	0	−23.2	30.6
J310589	2031-10-23 01:05:02.63	17 38 44.76302 −23 12 53.79871	2.2	9.028	182.77	29.79	5.724	36.4	9.156	13.607	12.463	217.6	56.1
Pgt	4116529100119777280	17 38 44.73134 −23 13 02.81624	1.1	37.480	1.45	−2.25		33.7	0.410	14.040	0	−23.2	30.6
J310590	2031-10-23 02:29:46.67	17 38 47.38586 −23 13 01.69604	5.6	2.886	182.77	29.81	5.725	12.5	7.537	14.223	12.640	196.4	56.1
Pgt	4116529100119753600	17 38 47.37576 −23 13 04.57882	2.8	11.983	1.45	−2.25		9.5	1.832	14.656	0	−23.2	31.4
J310591	2031-10-23 06:23:29.46	17 38 54.69734 −23 13 03.78775	4.0	5.648	182.75	29.87	5.727	23.1	8.273	14.299	12.837	137.9	55.9
Pgt	4116529241982782720	17 38 54.67766 −23 13 09.42937	2.2	23.460	1.43	−2.25		20.2		14.735	0	−23.2	33.7
J310592	2031-10-23 10:35:17.12	17 39 02.55796 −23 13 14.57037	1.9	0.067	182.76	29.94	5.729	1.8	9.001	14.026	12.782	74.8	55.8
Pgt	4116528589148305920	17 39 02.55773 −23 13 14.63699	1.1	0.277	1.42	−2.25		−1.3	0.537	14.464	0	−23.2	36.1
J310593	2031-10-23 11:09:26.81	17 39 03.68812 −23 12 57.98849	2.2	17.373	182.74	29.94	5.729		9.897	14.611	13.415	66.2	55.8
Pt	4116528584723711872	17 39 03.62790 −23 13 15.34206	1.2	72.193	1.42	−2.25			0.352	15.049	0	−23.2	36.4
J310594	2031-10-23 17:43:29.46	17 39 15.95467 −23 13 33.77998	2.1	10.342	2.71	30.04	5.733	−39.3	7.865	13.174	11.835	327.5	55.6
Pgt	4116529752954726912	17 39 15.99014 −23 13 23.44930	1.2	43.002	1.40	−2.24		−41.9	0.996	13.616	0	−23.2	40.3
J310595	2031-10-23 17:57:37.78	17 39 16.45137 −23 13 18.77930	2.1	4.966	182.71	30.05	5.733	20.5	8.740	14.136	12.783	323.9	55.6
Pgt	4116529752954755072	17 39 16.43433 −23 13 23.73932	1.2	20.647	1.39	−2.24		17.5	0.775	14.578	0	−23.2	40.4
J310596	2031-10-23 18:23:35.85	17 39 17.27137 −23 13 18.12591	2.9	6.153	182.71	30.05	5.733	25.1	8.153	13.699	12.287	317.4	55.5
Pgt	4116529791738362240	17 39 17.25026 −23 13 24.27182	1.7	25.584	1.39	−2.24		22.2	1.109	14.141	0	−23.2	40.6
J310597	2031-10-23 19:33:50.11	17 39 19.48999 −23 13 16.35717	2.4	9.364	182.71	30.07	5.734	37.9	9.781	14.617	13.383	299.8	55.5
Pgt	4116529791738344192	17 39 19.45790 −23 13 25.71110	1.4	38.942	1.39	−2.24		35.1	0.387	15.060	0	−23.2	41.3
J310598	2031-10-23 19:46:17.97	17 39 19.85079 −23 13 25.66970	2.5	0.297	182.70	30.07	5.734	2.6	9.403	14.520	13.216	296.7	55.5
Pgt	4116518040705300352	17 39 19.84978 −23 13 25.96635	1.4	1.235	1.39	−2.24		−0.4	0.529	14.963	0	−23.2	41.4
J310599	2031-10-23 20:11:57.47	17 39 20.69313 −23 13 15.82854	1.8	10.675	182.71	30.08	5.734	43.4	8.333	13.499	12.196	290.3	55.5
Pgt	4116518040705299712	17 39 20.65657 −23 13 26.49165	1.0	44.395	1.39	−2.24		40.7	0.816	13.942	0	−23.2	41.7
J310600	2031-10-24 00:07:43.91	17 39 28.11937 −23 13 18.81043	1.8	12.513	182.69	30.14	5.736	51.6	9.993	13.828	12.768	231.2	55.3
Pgt	4116518105003447680	17 39 28.07673 −23 13 31.30916	1.1	52.056	1.37	−2.24		49.1	0.243	14.274	0	−23.2	44.0
J310601	2031-10-24 05:51:50.32	17 39 38.90867 −23 13 43.80581	3.7	5.502	2.67	30.22	5.739	−19.7	8.256	14.164	12.686	145.0	55.1
Pgt	4116517456589889408	17 39 38.92726 −23 13 38.30930	2.1	22.904	1.35	−2.24		−22.6		14.612	0	−23.2	47.3

Table 5 *continued on next page*

Table 5 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310602	2031-10-24 08:26:52.02	17 39 43.79826 −23 13 49.02056	2.2	7.578	2.66	30.26	5.741	−27.9	8.290	11.540	10.590	106.1	55.1
Pgt	4116517422229743232	17 39 43.82376 −23 13 41.45099	1.2	31.549	1.35	−2.24		−30.7	0.548	11.989	1	−23.2	48.8
J310603	2031-10-24 13:09:42.82	17 39 52.77402 −23 13 46.04420	2.4	1.121	182.64	30.33	5.743	5.8	9.839	14.574	13.316	35.3	54.9
Pgt	4116517349089170816	17 39 52.77027 −23 13 47.16357	1.3	4.667	1.33	−2.24		2.8	0.343	15.026	0	−23.2	51.5
J310604	2031-10-24 14:18:27.35	17 39 54.88888 −23 14 05.98215	3.3	17.452	2.64	30.34	5.744		8.936	14.540	13.108	18.1	54.9
Pt	4116517280369630592	17 39 54.94712 −23 13 48.54815	1.9	72.701	1.33	−2.24				14.993	0	−23.2	52.2
J310605	2031-10-24 17:40:36.24	17 40 01.35448 −23 13 52.54646	4.6	0.065	182.63	30.39	5.745	1.7	7.851	14.159	12.596	327.4	54.7
Pgt	4116537797576266368	17 40 01.35426 −23 13 52.61112	2.6	0.270	1.31	−2.24		−1.3		14.613	0	−23.2	54.1
J310606	2031-10-25 00:30:55.80	17 40 14.41064 −23 13 53.35488	1.8	7.471	182.61	30.49	5.749	30.3	9.391	14.318	13.050	224.6	54.5
Pgt	4116537690054266624	17 40 14.38600 −23 14 00.81847	1.0	31.151	1.29	−2.24		27.5	0.425	14.776	0	−23.2	58.1
J310607	2031-10-25 03:49:12.12	17 40 20.72677 −23 13 55.31216	5.2	9.463	182.59	30.54	5.751	38.4	7.690	13.957	12.399	174.9	54.4
Pgt	4116537243382550912	17 40 20.69569 −23 14 04.76506	2.9	39.466	1.28	−2.24		35.6		14.417	0	−23.2	60.0
J310608	2031-10-25 04:09:40.80	17 40 21.30826 −23 14 17.23755	5.8	12.078	2.59	30.55	5.751	−47.2	7.679	14.564	12.965	169.8	54.4
Pgt	4116537243382539136	17 40 21.34784 −23 14 05.17195	3.2	50.375	1.28	−2.24		−49.8		15.024	0	−23.2	60.2
J310609	2031-10-25 20:04:04.76	17 40 51.87150 −23 14 13.87713	1.5	10.117	182.54	30.78	5.759	41.2	9.730	13.082	12.118	290.7	53.8
Pgt	4116491476207572608	17 40 51.83901 −23 14 23.98421	0.8	42.256	1.22	−2.24		38.5	0.266	13.550	0	−23.3	69.4
J310610	2031-10-25 20:28:07.84	17 40 52.55757 −23 14 40.75334	2.0	16.315	2.53	30.78	5.759	−73.1	9.405	14.450	13.181	284.6	53.8
Pgt	4116491480645692160	17 40 52.60983 −23 14 24.45441	1.1	68.146	1.22	−2.24		−75.4		14.919	0	−23.3	69.6
J310611	2031-10-25 23:15:46.34	17 40 57.99987 −23 14 23.34992	1.6	4.381	182.52	30.82	5.761	18.3	8.001	11.090	10.182	242.6	53.7
Pgt	4116491441848571648	17 40 57.98587 −23 14 27.72648	0.9	18.303	1.21	−2.24		15.4	0.630	11.559	0	−23.3	71.2
J310612	2031-10-26 07:46:16.12	17 41 14.34017 −23 14 54.08348	3.6	16.466	2.49	30.95	5.765	−74.9	8.886	14.646	13.226	114.7	53.4
Pg	4116490754652981504	17 41 14.39208 −23 14 37.63264	2.0	68.848	1.18	−2.23		−77.2	0.923	15.120	0	−23.3	76.1
J310613	2031-10-26 09:41:53.00	17 41 18.13373 −23 14 33.94235	5.2	5.927	182.49	30.97	5.766	24.3	9.844	14.909	13.504	85.8	53.4
Pgt	4116490857732226944	17 41 18.11506 −23 14 39.86400	3.2	24.787	1.18	−2.23		21.4	0.345	15.384	0	−23.3	77.2
J310614	2031-10-26 10:00:59.26	17 41 18.73978 −23 14 37.29113	2.0	2.944	182.49	30.98	5.766	12.8	9.920	14.495	13.308	81.0	53.4
Pgt	4116490896530022784	17 41 18.73052 −23 14 40.23228	1.2	12.311	1.18	−2.23		9.8	0.350	14.970	0	−23.3	77.4
J310615*	2031-10-26 15:30:26.86	17 41 29.37661 −23 14 39.96492	2.7	6.605	182.47	31.06	5.769	27.0	8.161	14.302	12.794	358.4	53.2
Pgt	4116493778309997824	17 41 29.35598 −23 14 46.56393	1.5	27.636	1.16	−2.23		24.1	0.903	14.780	0	−23.3	80.6
J310616	2031-10-26 16:13:20.71	17 41 30.71425 −23 14 55.99753	4.0	8.620	2.46	31.07	5.769	−32.3	8.691	14.692	13.218	347.7	53.1
Pg	4116493572151532032	17 41 30.74111 −23 14 47.38563	2.3	36.067	1.15	−2.23		−35.0		15.170	0	−23.3	81.0
J310617	2031-10-26 16:28:48.68	17 41 31.23049 −23 14 50.92212	2.3	3.243	2.46	31.07	5.769	−11.0	9.843	14.859	13.587	343.8	53.1
Pg	4116493572151531904	17 41 31.24060 −23 14 47.68174	1.3	13.571	1.15	−2.23		−13.9	0.417	15.337	0	−23.3	81.1
J310618	2031-10-26 22:22:28.51	17 41 42.70118 −23 14 46.20213	4.0	8.236	182.44	31.16	5.772	33.5	8.609	14.489	13.030	255.2	52.9
Pgt	4116492889396025472	17 41 42.67571 −23 14 54.43036	2.3	34.479	1.13	−2.23		30.7		14.970	0	−23.3	84.5
J310619*	2031-10-27 02:44:51.18	17 41 51.16957 −23 15 01.44424	8.7	2.037	2.43	31.22	5.775	−6.3	8.116	14.790	13.169	189.5	52.8
Pgt	4116492992386610048	17 41 51.17583 −23 14 59.40920	5.1	8.531	1.12	−2.23		−9.3		15.274	0	−23.3	87.0
J310620	2031-10-27 02:54:52.12	17 41 51.49344 −23 15 01.92155	1.7	2.325	2.43	31.22	5.775	−7.4	8.459	13.783	12.735	186.9	52.8
Pgt	4116492988035966592	17 41 51.50058 −23 14 59.59879	1.0	9.737	1.12	−2.23		−10.4	0.609	14.266	0	−23.3	87.1
J310621	2031-10-27 04:52:28.27	17 41 55.34269 −23 14 52.88479	2.4	8.945	182.42	31.25	5.776	36.4	9.911	14.887	13.605	157.5	52.7
Pgt	4116493022395729792	17 41 55.31529 −23 15 01.82222	1.3	37.471	1.11	−2.23		33.7	0.295	15.372	0	−23.3	88.2
J310622	2031-10-27 21:20:13.84	17 42 27.41513 −23 15 37.06016	1.5	16.770	2.36	31.48	5.784	−79.6	9.710	13.390	12.350	270.0	52.2
Pgt	4116481825556979840	17 42 27.46516 −23 15 20.30463	0.9	70.347	1.05	−2.23		−81.9		13.883	0	−23.3	97.5
J310623***	2031-10-27 23:05:40.69	17 42 30.90556 −23 15 23.31975	9.1	1.063	2.35	31.51	5.785	−2.6	6.828	14.601	12.908	243.6	52.1
Pgt	4116481992919640576	17 42 30.90873 −23 15 22.25719	5.7	4.462	1.05	−2.23		−5.6		15.095	0	−23.3	98.5
J310624	2031-10-28 01:44:26.56	17 42 36.12655 −23 15 15.44887	1.4	9.749	182.35	31.54	5.786	39.8	8.543	12.078	11.089	203.8	52.0
Pgt	4116482027279400576	17 42 36.09761 −23 15 25.18949	0.8	40.910	1.04	−2.23		37.1	0.513	12.573	0	−23.3	100.0
J310625	2031-10-28 07:51:31.28	17 42 48.15076 −23 15 19.40532	4.5	12.539	182.32	31.63	5.789	52.3	8.090	14.495	12.958	111.8	51.8
Pg	4116479072341888000	17 42 48.11387 −23 15 31.93449	2.6	52.649	1.02	−2.23		49.8		14.993	0	−23.3	103.5
J310626	2031-10-28 12:12:03.60	17 42 56.66111 −23 15 35.89830	1.7	0.795	182.31	31.69	5.791	4.5	9.109	13.757	12.553	46.6	51.7
Pgt	4116854113267598720	17 42 56.65879 −23 15 36.69223	1.0	3.337	1.00	−2.22		1.6	0.459	14.256	0	−23.3	105.9

Table 5 *continued on next page*

Table 5 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310627	2031-10-28 13:36:51.56	17 42 59.44343 −23 15 38.04279	1.8	0.193	182.29	31.71	5.792	2.2	8.979	13.786	12.563	25.3	51.6
Pgt	4116854147627304576	17 42 59.44287 −23 15 38.23544	1.0	0.810	0.99	−2.22		−0.8	0.514	14.286	0	−23.3	106.7
J310628	2031-10-28 20:34:40.68	17 43 13.18040 −23 15 46.12304	1.8	0.323	2.28	31.81	5.795	0.2	9.290	14.158	12.934	280.6	51.4
Pgt	4116853249888262272	17 43 13.18134 −23 15 45.80051	1.0	1.357	0.97	−2.22		−2.7	0.454	14.662	0	−23.3	110.6
J310629	2031-10-28 22:46:45.01	17 43 17.49631 −23 16 00.34853	5.3	12.180	2.27	31.84	5.797	−48.1	7.949	14.653	13.030	247.5	51.3
Pgt	4116853559125902720	17 43 17.53125 −23 15 48.17841	3.1	51.204	0.96	−2.22		−50.7	1.682	15.158	0	−23.3	111.8
J310630	2031-10-29 02:37:37.78	17 43 25.16121 −23 15 46.19506	5.6	6.129	182.26	31.89	5.798	25.2	7.570	14.872	13.238	189.7	51.2
Pgt	4068815282028020224	17 43 25.14371 −23 15 52.31969	3.1	25.777	0.95	−2.22		22.4		15.379	0	−23.3	113.9
J310631*	2031-10-29 03:27:02.67	17 43 26.78998 −23 15 47.72644	2.7	5.481	182.25	31.90	5.799	22.7	9.152	13.920	12.697	177.3	51.1
Pgt	4068815282028208640	17 43 26.77435 −23 15 53.20346	1.6	23.053	0.95	−2.22		19.8	0.465	14.427	0	−23.3	114.4
J310632	2031-10-29 04:55:34.31	17 43 29.72445 −23 15 45.09653	2.1	9.695	182.25	31.92	5.800	39.7	9.503	14.641	13.353	155.1	51.1
Pgt	4068815208916048640	17 43 29.69686 −23 15 54.78445	1.2	40.781	0.94	−2.22		37.0	0.516	15.148	0	−23.3	115.2
J310633	2031-10-29 08:24:10.11	17 43 36.63329 −23 15 42.92687	5.8	15.583	182.24	31.97	5.801	70.2	8.060	14.938	13.336	102.9	51.0
Pg	4068816518978455680	17 43 36.58917 −23 15 58.49807	3.3	65.566	0.93	−2.22		67.8		15.448	0	−23.3	117.1
J310634	2031-10-29 10:02:43.00	17 43 39.82973 −23 16 06.81715	1.7	6.575	2.23	32.00	5.802	−24.2	9.061	13.972	12.719	78.2	50.9
Pgt	4068816445866553472	17 43 39.84827 −23 16 00.24681	1.0	27.669	0.92	−2.22		−27.0	0.495	14.482	0	−23.3	118.0
J310635	2031-10-29 13:28:29.40	17 43 46.68447 −23 15 54.97350	4.5	8.920	182.22	32.04	5.804	36.5	8.296	14.466	12.954	26.6	50.8
Pgt	4068815831725033600	17 43 46.65944 −23 16 03.88641	2.8	37.545	0.91	−2.22		33.7	1.168	14.978	0	−23.3	119.9
J310636	2031-10-29 14:50:07.58	17 43 49.36874 −23 16 03.59176	2.9	1.735	182.21	32.06	5.804	8.2	9.208	14.747	13.350	6.2	50.7
Pgt	4068815758671798656	17 43 49.36389 −23 16 05.32590	1.7	7.306	0.91	−2.22		5.2		15.259	0	−23.3	120.7
J310637	2031-10-29 17:19:11.42	17 43 54.34154 −23 15 54.99490	3.9	12.962	182.20	32.10	5.806	54.6	8.583	14.438	12.979	328.8	50.7
Pgt	4068815591265313408	17 43 54.30538 −23 16 07.94781	2.4	54.581	0.90	−2.22		52.1		14.952	0	−23.3	122.0
J310638	2031-10-29 17:50:24.62	17 43 55.39075 −23 15 50.61503	2.1	17.894	182.20	32.10	5.806		9.693	14.622	13.371	321.0	50.6
P	4068815586885305344	17 43 55.34087 −23 16 08.49587	1.4	75.349	0.89	−2.22			0.418	15.136	0	−23.3	122.3
J310639	2031-10-29 18:28:22.01	17 43 56.56507 −23 16 21.73801	2.8	12.586	2.19	32.11	5.806	−50.2	9.475	14.817	13.461	311.5	50.6
Pgt	4068815518153557760	17 43 56.60004 −23 16 09.16169	1.5	52.999	0.89	−2.22		−52.7	0.552	15.331	0	−23.3	122.7
J310640	2031-10-30 00:30:44.34	17 44 08.62509 −23 16 19.22395	2.2	3.736	2.17	32.19	5.809	−13.0	9.366	14.524	13.224	220.7	50.4
Pgt	4068812911205528576	17 44 08.63537 −23 16 15.49062	1.3	15.741	0.87	−2.22		−15.9		15.041	0	−23.3	126.0
J310641	2031-10-30 01:58:21.98	17 44 11.52056 −23 16 27.55633	1.8	10.550	2.17	32.21	5.810	−40.8	8.038	13.393	12.061	198.7	50.4
Pgt	4068813009892638208	17 44 11.54951 −23 16 17.01350	1.1	44.456	0.87	−2.22		−43.4	0.842	13.911	0	−23.3	126.8
J310642	2031-10-30 02:09:44.12	17 44 11.88476 −23 16 32.85824	1.7	15.659	2.17	32.22	5.810	−68.6	8.841	13.769	12.525	195.9	50.4
Pgt	4068812803734208128	17 44 11.92771 −23 16 17.21087	1.1	65.982	0.86	−2.22		−70.9	0.519	14.287	0	−23.3	126.9
J310643*	2031-10-30 03:00:55.87	17 44 13.60318 −23 16 28.27460	3.9	10.183	2.16	32.23	5.810	−39.2	9.241	14.793	13.347	183.1	50.3
Pgt	4068812808126238208	17 44 13.63108 −23 16 18.09902	2.7	42.912	0.86	−2.22		−41.8	0.664	15.311	0	−23.3	127.3
J310644	2031-10-30 05:13:18.00	17 44 18.08023 −23 16 04.80201	6.5	15.600	182.16	32.26	5.811	70.5	8.173	14.415	12.904	149.9	50.3
Pgt	4068812842485943424	17 44 18.03756 −23 16 20.39068	3.7	65.751	0.85	−2.22		68.1		14.934	0	−23.3	128.5
J310645*	2031-10-30 06:08:22.80	17 44 19.87251 −23 16 21.20490	14.4	0.137	182.15	32.27	5.812	2.0	9.097	14.571	13.179	136.1	50.2
Pgt	4068812773766425472	17 44 19.87214 −23 16 21.34228	9.0	0.579	0.85	−2.22		−1.0	0.557	15.090	0	−23.3	129.0
J310646	2031-10-30 09:02:45.41	17 44 25.68836 −23 16 22.77054	1.6	1.578	182.14	32.31	5.813	7.6	8.667	13.124	11.910	92.4	50.1
Pgt	4068817923335259008	17 44 25.68407 −23 16 24.34716	1.0	6.652	0.84	−2.22		4.6	0.540	13.644	0	−23.3	130.6
J310647	2031-10-30 10:24:33.63	17 44 28.38853 −23 16 34.64110	2.2	8.895	2.14	32.33	5.814	−33.7	9.444	14.459	13.150	71.9	50.1
Pgt	4068817854615706880	17 44 28.41260 −23 16 25.75275	1.6	37.506	0.84	−2.22		−36.4	0.535	14.981	0	−23.3	131.3
J310648	2031-10-30 13:44:15.61	17 44 35.10678 −23 16 18.84746	2.3	10.333	182.13	32.38	5.816	42.5	9.495	14.424	13.149	21.9	50.0
Pgt	4068817751548866944	17 44 35.07893 −23 16 29.17310	1.4	43.582	0.82	−2.22		39.9		14.947	0	−23.3	133.1
J310649	2031-10-30 14:20:38.93	17 44 36.26737 −23 16 39.87724	1.8	10.089	2.12	32.38	5.816	−38.8	7.942	12.461	11.268	12.8	49.9
Pgt	4068817751536483456	17 44 36.29448 −23 16 29.79467	1.1	42.558	0.82	−2.22		−41.5	0.853	12.984	0	−23.3	133.5
J310650	2031-10-30 15:27:38.06	17 44 38.51808 −23 16 36.40684	2.4	5.473	2.12	32.40	5.816	−19.8	8.480	13.760	12.404	356.0	49.9
Pgt	4068817717176760576	17 44 38.53277 −23 16 30.93751	1.5	23.088	0.82	−2.22		−22.7	0.760	14.284	0	−23.3	134.1
J310651	2031-10-30 15:58:10.51	17 44 39.58157 −23 16 21.03299	2.6	10.432	182.12	32.41	5.817	43.0	9.933	14.407	13.227	348.3	49.9
Pg	4068817717176811392	17 44 39.55356 −23 16 31.45799	1.6	44.010	0.82	−2.22		40.3		14.931	0	−23.3	134.3

Table 5 *continued on next page*

Table 5 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310652	2031-10-30 16:02:46.20	17 44 39.70217 −23 16 33.39187	3.1	1.857	2.12	32.41	5.817	−5.7	6.907	11.598	10.366	347.2	49.9
Pg	4068817717176760448	17 44 39.70716 −23 16 31.53626	1.8	7.834	0.81	−2.22		−8.7	1.439	12.122	0	−23.3	134.4
J310653	2031-10-30 17:54:35.74	17 44 43.45007 −23 16 32.07779	2.7	1.362	182.11	32.43	5.818	6.7	9.216	14.408	13.065	319.2	49.8
Pgt	4068806344103356544	17 44 43.44643 −23 16 33.43865	1.6	5.746	0.81	−2.22		3.8	0.560	14.933	0	−23.3	135.4
J310654	2031-10-30 18:21:59.97	17 44 44.41013 −23 16 16.34974	4.3	17.566	182.11	32.44	5.818		9.132	14.924	13.466	312.3	49.8
P	4068806348432518656	17 44 44.36313 −23 16 33.90409	2.7	74.121	0.81	−2.22				15.449	0	−23.3	135.6
J310655	2031-10-30 18:22:00.34	17 44 44.32908 −23 16 46.73361	4.1	12.838	2.11	32.44	5.818	−51.6	8.750	14.609	13.144	312.3	49.8
Pgt	4068806348432373504	17 44 44.36334 −23 16 33.90419	2.5	54.171	0.81	−2.22		−54.1	0.808	15.134	0	−23.3	135.6
J310656	2031-10-30 19:25:30.54	17 44 46.52686 −23 16 20.50542	3.1	14.486	182.11	32.45	5.818	63.1	9.603	14.797	13.443	296.4	49.8
Pgt	4068806378463146496	17 44 46.48819 −23 16 34.98163	1.9	61.129	0.80	−2.22		60.6		15.323	0	−23.3	136.2
J310657	2031-10-30 19:32:52.65	17 44 46.74787 −23 16 30.20492	2.1	4.905	182.11	32.46	5.818	20.5	6.369	10.859	9.675	294.5	49.8
Pgt	4068806348493560704	17 44 46.73479 −23 16 35.10655	1.3	20.699	0.80	−2.22		17.6		11.384	0	−23.3	136.3
J310658	2031-10-30 22:37:08.97	17 44 52.88931 −23 16 44.21790	9.4	5.998	2.09	32.50	5.820	−21.9	7.545	14.657	12.585	248.4	49.7
Pgt	4068806103585202816	17 44 52.90521 −23 16 38.22345	5.6	25.320	0.79	−2.21		−24.8		15.184	0	−23.3	137.9
J310659	2031-10-31 03:27:38.12	17 45 02.67935 −23 16 30.16532	2.5	12.953	182.08	32.56	5.822	54.7	8.773	14.110	12.749	175.6	49.5
Pgt	4068806176694591104	17 45 02.64526 −23 16 43.10950	1.5	54.695	0.77	−2.21		52.2	0.791	14.639	0	−23.3	140.5
J310660	2031-10-31 09:32:28.25	17 45 14.92694 −23 16 39.09906	2.3	10.106	182.06	32.64	5.825	41.6	9.566	14.644	13.347	84.2	49.3
Pgt	4068806756420192256	17 45 14.90064 −23 16 49.19836	1.3	42.695	0.75	−2.21		38.9	0.482	15.176	0	−23.3	143.7
J310661	2031-10-31 10:57:54.24	17 45 17.73482 −23 17 05.74545	4.6	15.139	2.05	32.66	5.826	−65.0	8.362	14.791	13.250	62.8	49.2
Pgt	4068806687700606080	17 45 17.77405 −23 16 50.61646	2.7	63.966	0.75	−2.21		−67.4		15.323	0	−23.3	144.5
J310662	2031-10-31 12:03:07.47	17 45 20.00323 −23 16 38.33113	4.4	13.374	182.05	32.68	5.826	56.9	9.903	14.838	13.290	46.4	49.2
Pgt	4068806726450090752	17 45 19.96855 −23 16 51.69708	3.4	56.516	0.74	−2.21		54.4	0.324	15.371	0	−23.3	145.0
J310663	2031-10-31 14:11:10.78	17 45 24.26750 −23 16 58.50082	4.5	4.690	2.04	32.71	5.827	−16.8	7.708	14.042	12.512	14.3	49.1
Pgt	4068803771512496128	17 45 24.27959 −23 16 53.81381	2.8	19.822	0.73	−2.21		−19.7		14.576	0	−23.3	146.2
J310664	2031-10-31 14:33:12.71	17 45 24.98174 −23 17 09.65738	3.6	15.490	2.03	32.71	5.828	−67.6	9.333	14.914	13.464	8.8	49.1
Pgt	4068803771512468992	17 45 25.02162 −23 16 54.17733	2.1	65.469	0.73	−2.21		−70.0		15.449	0	−23.3	146.3
J310665	2031-10-31 14:41:28.43	17 45 25.25546 −23 17 11.57080	1.5	17.268	2.03	32.71	5.828		9.408	12.689	11.746	6.8	49.1
Pt	4068803767122847872	17 45 25.29990 −23 16 54.31360	0.8	72.985	0.73	−2.21			0.315	13.223	0	−23.3	146.4
J310666	2031-10-31 20:38:38.52	17 45 37.35723 −23 16 54.33533	5.7	5.846	182.01	32.79	5.830	24.2	8.969	14.747	13.054	277.3	48.9
Pgt	4068804007641060992	17 45 37.34232 −23 17 00.17816	3.6	24.723	0.71	−2.21		21.4	0.587	15.284	0	−23.3	149.5
J310667	2031-10-31 21:42:13.46	17 45 39.44909 −23 17 16.74534	4.9	15.538	2.01	32.81	5.831	−68.1	8.210	14.782	13.213	261.3	48.9
Pgt	4068803943310816512	17 45 39.48859 −23 17 01.21674	2.9	65.711	0.71	−2.21		−70.4		15.319	0	−23.3	150.1
J310668	2031-10-31 23:55:30.19	17 45 44.00076 −23 16 59.14018	2.5	4.251	182.00	32.84	5.832	18.0	8.741	14.078	12.728	227.9	48.8
Pgt	4068803977670475392	17 45 43.98998 −23 17 03.38843	1.5	17.980	0.70	−2.21		15.1	0.852	14.617	0	−23.3	151.2
J310669*	2031-11-01 01:43:57.61	17 45 47.67974 −23 16 55.56734	5.8	9.589	182.00	32.86	5.833	39.5	9.849	14.282	13.099	200.8	48.7
Pgt	4068826689464976768	17 45 47.65550 −23 17 05.15032	3.5	40.565	0.69	−2.21		36.8		14.822	0	−23.3	152.2
J310670	2031-11-01 03:24:52.81	17 45 51.11256 −23 16 49.23445	4.2	17.562	181.99	32.89	5.834		8.248	14.479	12.958	175.5	48.7
P	4068826620747271936	17 45 51.06827 −23 17 06.78546	2.5	74.303	0.69	−2.21				15.019	0	−23.3	153.1
J310671	2031-11-01 04:26:01.27	17 45 53.14092 −23 17 06.13192	3.5	1.643	181.98	32.90	5.834	7.9	8.456	14.127	12.690	160.2	48.7
Pgt	4068826650708620416	17 45 53.13679 −23 17 07.77406	2.1	6.953	0.68	−2.21		4.9	1.010	14.668	0	−23.3	153.6
J310672	2031-11-01 06:14:01.26	17 45 56.78901 −23 17 10.84743	2.3	1.332	1.98	32.92	5.835	−3.7	9.120	14.211	12.898	133.1	48.6
Pgt	4068826448948541824	17 45 56.79235 −23 17 09.51657	1.4	5.636	0.68	−2.21		−6.6	0.633	14.752	0	−23.3	154.5
J310673	2031-11-01 12:28:30.59	17 46 09.46260 −23 17 24.54277	5.0	9.027	1.95	33.01	5.838	−34.4	8.262	14.873	13.179	39.3	48.4
Pgt	4068779513528117632	17 46 09.48493 −23 17 15.52146	3.0	38.220	0.65	−2.21		−37.1	1.222	15.417	0	−23.3	157.7
J310674	2031-11-01 15:41:07.70	17 46 16.04611 −23 17 09.43968	3.8	9.153	181.94	33.05	5.840	37.7	8.930	14.888	13.397	351.0	48.3
Pg	4068779715424086016	17 46 16.02357 −23 17 18.58742	2.3	38.765	0.64	−2.21		35.0		15.433	0	−23.3	159.4
J310675	2031-11-01 16:55:30.99	17 46 18.54269 −23 17 22.98372	1.9	3.218	1.94	33.07	5.840	−11.0	9.387	13.052	12.032	332.4	48.2
Pgt	4068779715305929728	17 46 18.55059 −23 17 19.76734	1.1	13.631	0.64	−2.21		−14.0	0.314	13.598	0	−23.3	160.0
J310676	2031-11-01 18:33:19.43	17 46 21.85965 −23 17 27.48066	1.9	6.169	1.93	33.09	5.841	−22.7	8.909	14.132	12.796	307.9	48.2
Pgt	4068779754045967360	17 46 21.87474 −23 17 21.31520	1.2	26.133	0.63	−2.21		−25.6	0.662	14.678	0	−23.3	160.8

Table 5 *continued on next page*

Table 5 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310677	2031-11-01 18:48:22.04	17 46 22.38582 −23 17 21.69833	4.2	0.145	1.94	33.09	5.841	0.9	8.376	14.686	13.154	304.1	48.2
Pgt	4068779754045964928	17 46 22.38618 −23 17 21.55292	2.6	0.616	0.63	−2.21		−2.1		15.232	0	−23.3	160.9
J310678	2031-11-01 20:27:17.75	17 46 25.76763 −23 17 16.09493	3.5	7.023	181.93	33.11	5.842	29.0	9.124	14.762	13.307	279.3	48.1
Pgt	4068779028111154816	17 46 25.75050 −23 17 23.11382	2.0	29.755	0.62	−2.21		26.2	0.595	15.310	0	−23.3	161.8
J310679	2031-11-02 00:48:31.51	17 46 34.67851 −23 17 12.51777	3.7	14.706	181.91	33.17	5.844	64.8	9.311	14.926	13.460	213.9	48.0
Pgt	4068780441240446848	17 46 34.64290 −23 17 27.21577	2.4	62.330	0.61	−2.21		62.4		15.476	0	−23.3	164.0
J310680	2031-11-02 03:05:32.40	17 46 39.33952 −23 17 17.92686	2.4	11.435	181.90	33.20	5.845	47.7	9.541	14.541	13.228	179.6	47.9
Pgt	4068780265061739648	17 46 39.31196 −23 17 29.35575	1.4	48.475	0.60	−2.21		45.1	0.462	15.092	0	−23.3	165.1
J310681	2031-11-02 05:02:17.32	17 46 43.28028 −23 17 36.52133	2.9	5.351	1.89	33.23	5.846	−19.5	9.126	14.604	13.195	150.3	47.8
Pgt	4068780299421388928	17 46 43.29311 −23 17 31.17295	1.7	22.688	0.59	−2.20		−22.3		15.155	0	−23.3	166.1
J310682	2031-11-02 13:55:19.77	17 47 01.52949 −23 17 27.55588	3.2	11.847	181.86	33.34	5.850	49.6	9.211	14.586	13.142	16.8	47.5
Pgt	4068777451942540288	17 47 01.50154 −23 17 39.39642	1.9	50.264	0.56	−2.20		47.0	0.637	15.141	0	−23.3	170.4
J310683	2031-11-02 16:09:32.55	17 47 06.08607 −23 17 44.99994	5.3	3.554	1.85	33.37	5.851	−12.4	8.583	14.646	13.137	343.1	47.4
Pg	4068776799109082880	17 47 06.09441 −23 17 41.44794	3.2	15.081	0.55	−2.20		−15.3		15.202	0	−23.3	171.5
J310684	2031-11-02 16:11:07.80	17 47 06.12694 −23 17 50.76998	4.7	9.303	1.85	33.37	5.851	−35.7	8.728	14.545	13.072	342.7	47.4
Pg	4068776794774744704	17 47 06.14875 −23 17 41.47216	2.8	39.477	0.55	−2.20		−38.4		15.101	0	−23.3	171.5
J310685	2031-11-02 16:35:26.48	17 47 06.98469 −23 17 40.29794	2.2	1.546	181.85	33.38	5.851	7.5	7.951	12.660	11.447	336.6	47.4
Pg	4068776794735952128	17 47 06.98107 −23 17 41.84294	1.3	6.560	0.55	−2.20		4.5		13.216	0	−23.3	171.7
J310686	2031-11-02 17:03:13.59	17 47 07.94697 −23 17 36.07374	1.8	6.196	181.85	33.39	5.851	25.7	9.805	13.876	12.788	329.7	47.4
Pgt	4068776799109076224	17 47 07.93244 −23 17 42.26638	1.1	26.294	0.55	−2.20		22.9	0.280	14.432	0	−23.3	171.9
J310687	2031-11-02 18:54:56.08	17 47 11.76373 −23 17 41.85936	3.3	2.107	181.84	33.41	5.852	9.7	9.355	14.838	13.435	301.7	47.4
Pgt	4068776764749312896	17 47 11.75881 −23 17 43.96546	1.9	8.944	0.54	−2.20		6.7		15.395	0	−23.3	172.7
J310688	2031-11-02 21:51:23.97	17 47 17.79026 −23 17 54.29027	1.9	7.656	1.83	33.45	5.854	−28.8	7.775	12.184	11.021	257.5	47.3
Pgt	4068782429733058560	17 47 17.80801 −23 17 46.63857	1.1	32.502	0.53	−2.20		−31.6	0.857	12.742	0	−23.3	174.0
J310689	2031-11-02 22:14:14.90	17 47 18.61553 −23 17 36.71008	2.4	10.279	181.83	33.46	5.854	42.6	9.861	14.656	13.417	251.8	47.2
Pgt	4068782434107683200	17 47 18.59168 −23 17 46.98371	1.4	43.640	0.53	−2.20		39.9	0.411	15.214	0	−23.3	174.2
J310690	2031-11-02 23:17:38.16	17 47 20.72796 −23 18 04.51607	3.3	16.584	1.82	33.47	5.854	−79.9	8.880	14.445	13.056	235.9	47.2
Pg	4068782365388143872	17 47 20.76627 −23 17 47.94001	2.0	70.417	0.53	−2.20		−82.1	0.848	15.004	0	−23.3	174.6
J310691	2031-11-02 23:55:54.72	17 47 22.09147 −23 17 43.44018	2.7	5.079	181.82	33.48	5.855	21.3	9.300	14.600	13.237	226.3	47.2
Pgt	4068782399747883520	17 47 22.07973 −23 17 48.51663	1.7	21.566	0.52	−2.20		18.4		15.159	0	−23.3	174.9
J310692	2031-11-03 00:35:10.79	17 47 23.45236 −23 17 38.35436	5.9	10.759	181.82	33.49	5.855	44.7	8.625	14.973	13.438	216.4	47.2
Pgt	4068782399747870080	17 47 23.42751 −23 17 49.10752	3.6	45.685	0.52	−2.20		42.1		15.532	0	−23.3	175.1
J310693	2031-11-03 02:42:28.93	17 47 27.83986 −23 17 33.19347	2.8	17.834	181.82	33.51	5.856		9.201	14.609	13.280	184.6	47.1
P	4068770751790959872	17 47 27.79883 −23 17 51.01856	1.6	75.743	0.51	−2.20				15.169	0	−23.3	175.9
J310694	2031-11-03 02:43:14.11	17 47 27.82852 −23 17 49.36646	2.5	1.664	181.81	33.52	5.856	8.0	9.704	14.864	13.589	184.4	47.1
Pgt	4068770751790941440	17 47 27.82470 −23 17 51.02984	1.5	7.068	0.51	−2.20		5.0	0.471	15.425	0	−23.3	175.9
J310695	2031-11-03 04:42:11.58	17 47 31.87623 −23 18 08.53952	2.0	15.738	1.80	33.54	5.857	−70.3	8.971	13.914	12.660	154.6	47.0
Pgt	4068770683072365824	17 47 31.91218 −23 17 52.80922	1.2	66.852	0.51	−2.20		−72.6		14.476	0	−23.3	176.4
J310696	2031-11-03 08:24:34.57	17 47 39.58928 −23 17 43.41135	5.1	12.714	181.79	33.59	5.859	53.9	7.447	13.824	12.291	98.8	46.9
Pgt	4068770889229717760	17 47 39.56039 −23 17 56.11908	3.1	54.022	0.49	−2.20		51.4		14.387	0	−23.3	176.8
J310697	2031-11-03 12:15:03.83	17 47 47.45973 −23 18 15.99819	3.8	16.479	1.78	33.64	5.860	−78.5	8.438	14.268	12.782	41.1	46.8
Pg	4068770098892961152	17 47 47.49679 −23 17 59.52670	2.3	70.043	0.48	−2.20		−80.8		14.833	0	−23.3	176.2
J310698	2031-11-03 14:42:57.90	17 47 52.60271 −23 17 58.05066	1.7	3.652	181.77	33.67	5.861	15.7	8.341	13.406	12.101	4.0	46.7
Pgt	4068770128946714368	17 47 52.59452 −23 18 01.70103	1.0	15.526	0.47	−2.20		12.8	0.926	13.971	0	−23.3	175.4
J310699*	2031-11-03 17:39:59.38	17 47 58.66607 −23 18 20.08125	2.6	15.798	1.76	33.71	5.863	−70.9	9.872	14.476	13.247	319.7	46.6
Pgt	4068769957267610112	17 47 58.70119 −23 18 04.29083	1.6	67.174	0.46	−2.20		−73.3	0.349	15.043	0	−23.3	174.2
J310700	2031-11-03 17:52:38.36	17 47 59.11845 −23 18 13.16249	1.9	8.691	1.76	33.71	5.863	−33.2	9.970	14.100	12.978	316.5	46.6
Pgt	4068771438985185408	17 47 59.13777 −23 18 04.47536	1.1	36.957	0.46	−2.20		−35.9	0.280	14.666	0	−23.3	174.1
J310701	2031-11-03 19:15:47.47	17 48 01.98559 −23 18 15.92574	1.9	10.244	1.75	33.73	5.864	−39.9	9.120	14.050	12.789	295.7	46.5
Pgt	4068771370265655168	17 48 02.00830 −23 18 05.68658	1.1	43.564	0.45	−2.20		−42.5	0.517	14.617	0	−23.3	173.5

Table 5 *continued on next page*

Table 5 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J310702	2031-11-03 19:46:07.38	17 48 03.02018 −23 18 22.17398	4.0	16.054	1.75	33.74	5.864	−73.4	8.489	14.203	12.754	288.1	46.5
Pgt	4068771370265627136	17 48 03.05571 −23 18 06.12765	2.6	68.274	0.45	−2.20		−75.7		14.771	0	−23.3	173.3
J310703	2031-11-03 23:35:23.30	17 48 10.94103 −23 18 26.22848	6.1	16.788	1.73	33.79	5.866	−86.1	6.383	13.081	11.491	230.6	46.4
Pg	4068768484048688512	17 48 10.97788 −23 18 09.44829	3.5	71.417	0.44	−2.20		−87.8		13.650	0	−23.3	171.6
J310704	2031-11-04 00:17:31.39	17 48 12.42229 −23 18 15.77616	2.2	5.723	1.73	33.80	5.866	−21.0	9.378	14.478	13.183	220.1	46.4
Pgt	4068768484048685824	17 48 12.43485 −23 18 10.05602	1.2	24.346	0.43	−2.20		−23.9		15.047	0	−23.3	171.3
J310705	2031-11-04 02:35:13.83	17 48 17.20920 −23 18 07.26401	4.3	4.775	181.72	33.83	5.867	20.1	5.384	11.027	9.670	185.6	46.3
Pgt	4068768518408378624	17 48 17.19876 −23 18 12.03675	2.6	20.318	0.42	−2.20		17.2	4.082	11.598	0	−23.3	170.2
J310706	2031-11-04 05:06:13.39	17 48 22.44922 −23 18 03.58593	1.5	10.618	181.72	33.86	5.868	44.2	8.621	12.268	11.254	147.8	46.2
Pgt	4068768685837627648	17 48 22.42614 −23 18 14.19887	0.9	45.188	0.42	−2.20		41.5	0.513	12.840	0	−23.3	169.1
J310707*	2031-11-04 05:11:40.69	17 48 22.57722 −23 18 31.72055	14.2	17.452	1.71	33.86	5.868		9.478	14.939	13.454	146.4	46.2
Pt	4068768621522230144	17 48 22.61507 −23 18 14.27679	8.2	74.273	0.41	−2.20			0.509	15.511	0	−23.3	169.0
J310708	2031-11-04 05:39:03.27	17 48 23.57106 −23 18 11.09155	3.3	3.578	181.71	33.87	5.868	15.4	9.212	14.819	13.413	139.5	46.2
Pgt	4068768617137798656	17 48 23.56330 −23 18 14.66765	2.0	15.227	0.41	−2.20		12.5		15.391	0	−23.3	168.8
J310709	2031-11-04 05:42:31.99	17 48 23.69960 −23 18 07.44218	2.9	7.278	181.71	33.87	5.868	30.1	9.535	14.928	13.568	138.7	46.2
Pgt	4068768617122913664	17 48 23.68380 −23 18 14.71729	1.8	30.978	0.41	−2.20		27.3		15.500	0	−23.3	168.8
J310710	2031-11-04 14:18:48.81	17 48 41.62012 −23 18 08.54569	5.6	13.485	181.68	33.98	5.872	58.1	8.699	14.788	13.259	9.3	45.9
Pgt	4068861594749679744	17 48 41.59138 −23 18 22.02470	3.1	57.431	0.38	−2.19		55.6	0.801	15.363	0	−23.3	164.7
J310711	2031-11-04 14:32:58.81	17 48 42.08881 −23 18 19.69794	2.2	2.527	181.68	33.98	5.872	11.3	9.328	14.456	13.150	5.8	45.9
Pgt	4068861594563275776	17 48 42.08344 −23 18 22.22353	1.2	10.761	0.38	−2.19		8.4	0.586	15.031	0	−23.3	164.6
J310712	2031-11-04 18:38:27.92	17 48 50.60998 −23 18 28.30349	2.0	2.650	1.66	34.03	5.874	−8.9	9.839	14.662	13.432	304.3	45.7
Pgt	4068673891721665792	17 48 50.61557 −23 18 25.65449	1.2	11.291	0.36	−2.19		−11.8	0.377	15.239	0	−23.3	162.6
J310713*	2031-11-04 18:51:41.15	17 48 51.10805 −23 18 10.35686	5.3	15.488	181.67	34.04	5.874	70.9	8.290	13.040	11.760	300.9	45.7
Pgt	4068673891721670912	17 48 51.07537 −23 18 25.83849	2.8	65.987	0.36	−2.19		68.6	0.716	13.617	0	−23.3	162.5
J310714	2031-11-04 19:57:41.08	17 48 53.33429 −23 18 44.34922	1.9	17.601	1.66	34.05	5.875		9.151	14.137	12.853	284.4	45.7
Pt	4068673818645968256	17 48 53.37123 −23 18 26.75585	1.1	74.994	0.36	−2.19			0.485	14.714	0	−23.3	162.0
J310715	2031-11-04 22:31:04.08	17 48 58.68760 −23 18 39.54022	4.7	10.664	1.65	34.08	5.876	−41.8	8.500	14.962	13.431	246.0	45.6
Pgt	4068673715515602944	17 48 58.70986 −23 18 28.88019	2.8	45.448	0.35	−2.19		−44.5		15.541	0	−23.3	160.8
J310716	2031-11-05 03:11:58.67	17 49 08.53095 −23 18 16.82507	4.4	15.924	181.63	34.14	5.878	74.8	7.303	13.942	12.391	175.6	45.5
Pg	4068674097879427072	17 49 08.49797 −23 18 32.74294	2.7	67.889	0.33	−2.19		72.5		14.523	0	−23.3	158.5
J310717	2031-11-05 06:37:50.30	17 49 15.65783 −23 18 46.28702	1.5	10.741	1.62	34.19	5.880	−42.2	8.370	13.343	12.076	124.0	45.3
Pgt	4068673371918184704	17 49 15.67984 −23 18 35.55073	0.9	45.801	0.32	−2.19		−44.8		13.925	0	−23.3	156.8
J310718	2031-11-05 10:22:04.65	17 49 23.49301 −23 18 47.57636	4.6	8.993	1.60	34.24	5.881	−34.6	8.733	14.880	13.397	67.8	45.2
Pgt	4068673135806463104	17 49 23.51129 −23 18 38.58702	2.8	38.359	0.31	−2.19		−37.3		15.463	0	−23.3	155.1
J310719	2031-11-05 10:47:33.49	17 49 24.42199 −23 18 28.97223	5.7	9.962	181.61	34.24	5.881	41.4	8.105	14.588	12.974	61.5	45.2
Pgt	4068673204525946624	17 49 24.40174 −23 18 38.93057	3.5	42.496	0.30	−2.19		38.7	1.111	15.172	0	−23.3	154.8
J310720	2031-11-05 11:59:11.52	17 49 26.93134 −23 18 27.23705	2.0	12.663	181.60	34.26	5.882	53.9	9.785	13.842	12.736	43.5	45.2
Pgt	4068674608868816512	17 49 26.90567 −23 18 39.89480	1.2	54.020	0.30	−2.19		51.4	0.295	14.426	0	−23.3	154.3
J310721	2031-11-05 13:38:35.70	17 49 30.40442 −23 18 29.99171	2.0	11.242	181.59	34.28	5.883	47.1	9.987	13.808	12.735	18.6	45.1
Pgt	4068671688291094272	17 49 30.38172 −23 18 41.22887	1.2	47.963	0.29	−2.19		44.5	0.261	14.393	0	−23.3	153.5
J320001	2032-02-27 14:38:29.83	19 37 33.82230 −21 37 42.07147	1.2	17.649	171.09	34.40	5.834		8.349	10.739	10.006	278.2	45.5
P	6771996676456912128	19 37 34.01841 −21 37 59.50715	1.0	74.678	−11.02	−1.49			0.468	11.328	0	−21.6	120.1
J320002	2032-02-29 23:19:29.88	19 39 30.54052 −21 33 41.35328	1.5	0.982	170.93	33.68	5.806	6.2	9.365	10.427	10.029	146.1	47.5
Pgt	6868064649507010944	19 39 30.55162 −21 33 42.32283	1.2	4.135	−11.21	−1.47		1.4	0.226	10.993	0	−21.5	91.6
J320003	2032-03-03 17:30:43.82	19 41 44.16023 −21 28 55.06998	1.4	13.374	350.75	32.81	5.773	−53.0	9.966	10.968	10.589	231.2	49.7
Pgt	6868043380829344640	19 41 44.00616 −21 28 41.87039	1.2	55.995	−11.42	−1.45		−57.1	0.167	11.505	0	−21.4	57.0
J320004	2032-03-05 13:05:21.50	19 43 10.39059 −21 25 34.08368	1.1	9.885	350.63	32.21	5.750	−36.5	9.095	12.047	11.199	296.1	51.2
Pgt	6868035031412788736	19 43 10.27532 −21 25 24.33010	0.8	41.228	−11.56	−1.44		−41.1		12.564	0	−21.3	33.0
J320005	2032-03-08 21:23:18.48	19 45 45.77413 −21 19 22.60953	0.9	0.791	350.42	31.08	5.708	−0.4	9.276	10.875	10.330	169.0	53.9
Pgt	6865119641972067712	19 45 45.76471 −21 19 21.82966	0.8	3.274	−11.81	−1.41		−5.6	0.259	11.354	0	−21.2	15.6

Table 5 *continued on next page*

Table 5 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J320006	2032-03-13 05:05:34.45	19 48 59.68194 −21 11 52.73959	1.9	14.138	350.18	29.54	5.650	−55.3	8.053	12.341	11.113	49.9	57.5
Pgt	6865473852214897792	19 48 59.50951 −21 11 38.80857	1.5	57.935	−12.13	−1.38		−59.7	0.860	12.765	0	−21.1	78.4
J320007	2032-03-14 17:35:03.26	19 50 05.61953 −21 08 51.56577	1.1	6.337	170.09	28.98	5.629	26.4	9.497	11.126	10.562	221.3	58.7
Pgt	6865466400452276224	19 50 05.69747 −21 08 57.80845	0.6	25.873	−12.23	−1.37		21.3	0.229	11.529	0	−21.1	99.5
J320008	2032-03-18 09:01:52.75	19 52 40.04193 −21 02 48.51203	1.1	11.404	349.91	27.60	5.578	−41.5	7.360	9.716	8.990	346.7	61.7
Pgt	6865294945358748672	19 52 39.89921 −21 02 37.28417	0.7	46.139	−12.48	−1.35		−46.3	0.706	10.065	0	−21.0	146.0
J320009*	2032-03-18 13:00:20.05	19 52 46.99298 −21 02 38.77518	4.3	18.879	349.90	27.54	5.576		8.828	11.296	10.549	286.9	61.9
Pt	6865295151517159424	19 52 46.75657 −21 02 20.18828	2.8	76.349	−12.49	−1.35			0.388	11.643	0	−21.0	148.0
J320010	2032-03-23 15:21:41.31	19 56 11.39296 −20 53 56.29128	1.2	12.665	349.67	25.54	5.502	−46.2	9.155	12.095	11.246	247.4	66.1
Pgt	6865356518008773120	19 56 11.23087 −20 53 43.83204	0.7	50.540	−12.81	−1.31		−51.1	0.353	12.361	0	−20.8	151.3
J320011	2032-03-25 14:44:49.80	19 57 26.96762 −20 50 37.72592	1.0	8.130	349.59	24.75	5.473	−27.3	7.854	10.745	9.911	255.0	67.8
Pgt	6865359850903907840	19 57 26.86278 −20 50 29.72938	0.7	32.274	−12.93	−1.30		−32.7	0.628	10.976	0	−20.8	128.1
J320012	2032-03-28 08:37:38.17	19 59 08.78406 −20 46 20.18117	0.9	14.272	349.49	23.63	5.432	−52.9	9.672	12.041	11.305	344.5	70.1
Pgt	6866109683472286848	19 59 08.59836 −20 46 06.14875	0.6	56.228	−13.09	−1.28		−57.8	0.245	12.222	0	−20.7	94.6
J320013*	2032-03-28 20:34:12.88	19 59 26.52677 −20 45 13.15496	6.8	6.157	169.46	23.42	5.425	25.2	9.509	11.001	10.480	165.0	70.5
Pgt	6866109958350345088	19 59 26.60704 −20 45 19.20776	4.3	24.222	−13.12	−1.28		19.5	0.214	11.172	0	−20.7	88.3
J320014	2032-03-31 22:30:49.60	20 01 15.28859 −20 40 51.55161	0.9	17.016	349.37	22.13	5.378	−68.1	9.769	12.627	11.793	133.2	73.1
Pgt	6866078416110498816	20 01 15.06498 −20 40 34.82722	0.6	66.367	−13.29	−1.26		−72.9	0.257	12.738	0	−20.6	48.6
J320015	2032-04-06 01:26:14.48	20 04 03.42230 −20 33 11.39144	1.7	2.938	349.25	19.93	5.298	−7.2	9.088	12.306	11.382	85.0	77.5
Pgt	6866163971859291776	20 04 03.38329 −20 33 08.50535	1.1	11.288	−13.55	−1.23		−13.5	0.373	12.302	0	−20.5	23.3
J320016	2032-04-08 07:39:52.51	20 05 12.88854 −20 30 20.02379	1.4	16.902	349.22	18.94	5.263	−64.5	7.898	11.716	10.648	349.7	79.5
Pgt	6865982616861550464	20 05 12.66360 −20 30 03.41972	0.9	64.514	−13.66	−1.21		−69.8	0.754	11.657	0	−20.4	55.5
J320017	2032-04-12 19:29:23.91	20 07 21.12354 −20 24 31.35510	1.5	12.187	349.19	16.92	5.192	−40.5	8.718	11.272	10.492	168.4	83.4
Pgt	6865996395116631936	20 07 20.96101 −20 24 19.38430	1.1	45.887	−13.85	−1.19		−46.7	0.415	11.091	1	−20.3	117.8
J320018*	2032-04-23 14:58:06.36	20 11 35.30687 −20 13 00.46270	3.6	0.327	349.41	11.96	5.019	3.1	4.506	7.896	6.941	226.6	92.9
Pgt	6866344807161369856	20 11 35.30260 −20 13 00.14155	2.5	1.189	−14.24	−1.13		−5.3	3.073	7.338	0	−20.1	110.8
J320019	2032-06-05 04:10:39.53	20 14 15.55144 −20 12 07.86606	0.8	0.827	163.89	−6.87	4.404	4.3	9.834	12.810	11.961	347.2	133.4
Pgt	6854417545541845376	20 14 15.56774 −20 12 08.66062	0.6	2.641	−14.48	−0.99		0.5	0.201	11.650	0	−20.1	98.4
J320020	2032-06-06 15:27:32.56	20 13 55.83640 −20 13 12.83263	0.9	14.668	164.19	−7.42	4.387	45.8	7.921	10.326	9.590	176.5	134.8
Pgt	6854412529020058368	20 13 56.12029 −20 13 26.94638	0.7	46.667	−14.46	−0.99		43.1	0.439	9.250	0	−20.1	117.9
J320021	2032-07-01 19:47:52.44	20 04 43.29712 −20 46 03.11459	1.2	10.479	166.72	−14.50	4.171	29.1	8.803	11.262	10.512	84.3	161.1
Pgt	6865968911623564160	20 04 43.46877 −20 46 13.31314	0.8	31.702	−13.61	−0.98		29.8		10.913	0	−20.7	93.0
J320022	2032-07-06 22:22:53.37	20 02 11.73059 −20 54 23.81102	0.7	4.457	167.08	−15.30	4.148	11.8	9.757	12.366	11.585	39.8	166.6
Pgt	6866059445235920384	20 02 11.80173 −20 54 28.15550	0.5	13.408	−13.38	−0.98		12.8	0.414	12.075	0	−20.8	158.4
J320023	2032-07-11 02:29:11.33	20 00 02.34288 −21 01 42.96909	0.6	22.877	347.36	−15.74	4.134	−75.9	9.655	12.399	11.580	333.6	171.1
Pgt	6866042166586260992	20 00 01.98527 −21 01 20.64681	0.5	68.586	−13.17	−0.99		−75.0	0.202	12.139	0	−20.9	149.9
J320024*	2032-07-24 07:39:37.71	19 52 55.43530 −21 23 12.93344	1.4	20.845	348.20	−15.96	4.124	−64.3	9.578	11.485	10.856	241.2	174.6
Pgt	6865232685512575232	19 52 55.13007 −21 22 52.52899	0.9	62.341	−12.50	−1.01		−63.0	0.165	11.240	0	−21.3	27.7
J320025	2032-07-26 11:10:20.59	19 51 46.35658 −21 26 34.94722	0.9	22.376	348.33	−15.83	4.127	−72.4	7.924	10.750	9.908	186.1	172.3
Pgt	6865255569098453248	19 51 46.03232 −21 26 13.03420	0.4	66.971	−12.39	−1.01		−71.1	0.449	10.496	1	−21.3	59.6
J320026*	2032-07-28 22:49:39.68	19 50 26.78260 −21 29 54.52447	1.5	5.514	168.47	−15.63	4.132	14.4	9.562	11.498	10.861	8.5	169.6
Pgt	6865262853362535552	19 50 26.86157 −21 29 59.92750	0.9	16.526	−12.26	−1.01		16.0	0.182	11.230	0	−21.4	94.9
J320027	2032-08-02 04:31:37.58	19 48 15.04846 −21 36 18.42867	1.4	7.289	348.71	−15.13	4.146	−21.0	9.281	10.203	9.883	278.3	165.0
Pgt	6865070846843604352	19 48 14.94617 −21 36 11.28030	1.0	21.916	−12.05	−1.02		−19.3	0.163	9.900	0	−21.5	149.8

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

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

Table 6. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K ≤ 10 (part 6 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J320028	2032-08-03 19:43:09.79	19 47 25.31065 −21 38 18.47291	0.8	10.182	168.80	−14.88	4.152	27.6	7.790	9.331	8.798	48.6	163.3
Pgt	6865050475818105856	19 47 25.45246 −21 38 28.46067	0.8	30.660	−11.97	−1.02		29.3	0.369	9.010	0	−21.6	168.9
J320029	2032-08-16 21:23:06.04	19 41 29.09788 −21 54 00.40782	0.7	21.895	169.41	−12.01	4.231	71.5	9.692	12.786	11.885	9.3	149.3
Pgt	6867991978660224768	19 41 29.38690 −21 54 21.92993	0.6	67.179	−11.40	−1.04		72.9	0.213	12.232	0	−21.8	27.8
J320030	2032-08-19 21:05:33.94	19 40 20.63013 −21 57 15.14272	0.9	4.472	169.52	−11.15	4.255	11.8	8.202	11.376	10.474	10.4	146.2
Pgt	6771917511619300352	19 40 20.68858 −21 57 19.54057	0.7	13.801	−11.29	−1.05		13.6	0.452	10.742	0	−21.9	17.5
J320031	2032-08-29 05:43:32.04	19 37 23.37146 −22 05 02.28984	0.8	12.220	349.77	−8.07	4.344	−36.9	9.983	12.668	11.876	231.0	136.5
Pgt	6771949324440576640	19 37 23.21529 −22 04 50.26376	0.6	38.497	−11.00	−1.06		−35.3	0.174	11.683	0	−22.0	149.9
J320032*	2032-09-11 14:14:26.42	19 35 03.13571 −22 10 43.60089	2.1	0.957	349.35	−2.73	4.501	−3.0	8.417	10.572	9.886	89.5	123.0
Pgt	6771862737899181056	19 35 03.12297 −22 10 42.65991	1.7	3.125	−10.77	−1.06		−2.7	0.345	8.410	0	−22.1	47.6
J320033*	2032-09-24 00:31:46.65	19 35 03.13570 −22 10 43.60076	2.2	16.738	171.67	2.82	4.671	58.3	8.417	10.572	9.886	282.9	110.8
Pgt	6771862737899181056	19 35 03.31027 −22 11 00.16269	1.8	56.700	−10.77	−1.06		53.6	0.358	8.447	0	−22.1	130.9
J320034*	2032-09-29 04:18:30.33	19 35 40.85856 −22 10 00.55672	4.7	20.172	351.05	5.23	4.746	−76.1	7.712	8.540	8.224	221.3	105.9
Pgt	6771863566831090816	19 35 40.63260 −22 09 40.63047	3.7	69.433	−10.83	−1.05		−79.4	0.381	7.084	0	−22.1	163.7
J320035	2032-10-11 18:04:40.47	19 38 41.14808 −22 03 13.82571	1.2	21.308	350.53	11.22	4.936		8.370	11.201	10.349	3.1	94.2
Pt	6771923284055481344	19 38 40.89596 −22 02 52.80792	0.9	76.287	−11.12	−1.03			0.457	10.573	0	−22.0	11.0
J320036	2032-10-14 08:45:29.43	19 39 33.70785 −22 00 59.80879	0.8	9.766	350.45	12.45	4.977	−31.1	9.479	11.995	11.238	140.5	91.9
Pgt	6771921630489616384	19 39 33.59131 −22 00 50.17797	0.7	35.250	−11.21	−1.02		−34.6	0.246	11.480	0	−21.9	27.8
J320037	2032-10-16 04:06:53.82	19 40 13.15952 −21 59 34.12105	0.9	16.588	350.38	13.30	5.004	−59.0	9.307	11.907	11.131	208.6	90.2
Pgt	6771915862351855104	19 40 12.96017 −21 59 17.76605	0.7	60.208	−11.27	−1.02		−62.1	0.279	11.464	0	−21.9	53.8
J320038	2032-11-02 02:33:47.48	19 48 10.50017 −21 40 01.48647	1.4	15.283	349.63	21.04	5.263	−56.5	8.721	11.367	10.569	217.1	75.2
Pgt	6865069408033819392	19 48 10.30293 −21 39 46.45322	1.1	58.332	−12.05	−0.97		−59.6	0.407	11.423	0	−21.6	88.3
J320039	2032-11-20 08:15:19.83	19 59 54.49130 −21 08 10.67523	0.9	7.371	168.63	28.55	5.522	29.3	9.588	12.589	11.724	116.7	59.7
Pg	6866038146496849408	19 59 54.59518 −21 08 17.90158	0.6	29.518	−13.16	−0.88		25.4	0.295	12.976	0	−21.0	157.8
J320040	2032-12-05 17:48:33.03	20 11 48.56249 −20 33 27.56745	1.2	14.179	347.63	33.95	5.711	−56.8	6.702	9.595	8.742	321.2	46.9
Pgt	6854308831329455232	20 11 48.34617 −20 33 13.71793	0.8	58.732	−14.26	−0.79		−60.4	1.173	10.170	0	−20.5	11.7
J330001	2033-05-31 05:51:50.89	22 31 49.69083 −10 14 45.36275	1.7	0.835	341.60	11.63	4.865	3.5	9.755	11.222	10.727	1.4	93.8
Pgt	2602988363082861312	22 31 49.67296 −10 14 44.57001	1.6	2.948	−23.85	0.86		−8.9	0.174	10.633	0	−10.1	128.9
J330002	2033-06-06 11:37:14.90	22 33 31.12648 −10 06 43.42235	1.1	4.351	342.62	8.77	4.768	−6.4	8.769	11.731	10.873	269.3	99.4
Pgt	2608806295717170560	22 33 31.03847 −10 06 39.27038	0.8	15.044	−23.92	0.90		−21.1		10.836	0	−9.9	154.2
J330003	2033-06-07 23:04:10.24	22 33 51.61271 −10 05 25.68033	1.5	19.644	342.98	8.10	4.745	−66.8	8.728	9.864	9.438	96.2	100.7
Pgt	2608811342303921792	22 33 51.22340 −10 05 06.89645	1.8	67.604	−23.93	0.91		−79.3	0.255	8.883	0	−9.9	136.9
J330004*	2033-07-08 11:55:06.60	22 35 02.00218 −10 07 38.93522	3.1	7.852	331.67	−5.31	4.316	−17.9	7.520	10.751	9.843	233.7	129.6
Pgt	2608796709350194304	22 35 01.74987 −10 07 32.02368	2.5	24.577	−23.98	1.07		−27.5	0.668	9.311	0	−9.9	98.4
J330005	2033-08-08 03:28:10.00	22 25 34.99354 −11 10 35.70080	2.2	2.688	337.12	−14.39	4.046	−8.0	8.056	9.530	9.017	327.8	161.4
Pgt	2602446578728545920	22 25 34.92251 −11 10 33.22407	1.3	7.888	−23.59	1.09		−6.4		9.173	0	−11.0	53.4
J330006	2033-09-16 03:10:29.63	22 07 00.73061 −12 58 28.01744	0.8	21.114	339.79	−13.41	4.072	−66.0	9.952	12.223	11.520	289.2	156.0
Pgt	2612530135442401024	22 07 00.23157 −12 58 08.20405	0.6	62.359	−22.71	0.95		−61.4	0.159	11.789	0	−12.8	118.7
J330007	2033-09-27 07:22:07.53	22 02 50.02931 −13 19 38.83074	0.9	23.350	160.70	−10.34	4.159	78.4	9.866	10.957	10.548	214.2	144.0
Pgt	2612457906976593408	22 02 50.55806 −13 20 00.86877	0.9	70.435	−22.49	0.90		84.1	0.134	10.242	0	−13.2	103.6
J330008*	2033-11-24 11:50:46.09	22 04 56.68348 −12 59 41.66285	1.7	8.821	338.14	15.36	4.952	−28.6	7.774	9.095	8.622	90.2	86.6
Pgt	2612488280985556992	22 04 56.45881 −12 59 33.47618	1.3	31.679	−22.60	0.78		−30.2		8.808	0	−12.8	59.3
J330009*	2033-12-29 12:12:43.69	22 24 22.10045 −11 05 37.61975	9.0	17.730	158.15	30.28	5.465	82.1	9.827	13.324	12.187	55.1	56.2
Pgt	2602508838573764224	22 24 22.54880 −11 05 54.07607	8.1	70.279	−23.54	0.90		79.1	0.294	13.774	0	−10.9	40.3
J330010	2033-12-30 23:22:46.63	22 25 24.34817 −11 00 06.24944	1.2	16.075	338.12	30.81	5.484	−64.7	9.675	11.862	11.171	246.4	55.0
Pgt	2602874189967280640	22 25 23.94128 −10 59 51.33272	1.1	63.939	−23.58	0.91		−67.8	0.239	12.331	0	−10.8	60.7
J340001	2034-06-04 03:23:06.85	00 31 47.92679 +02 08 25.41713	1.6	7.009	158.04	26.12	5.305	28.3	8.854	10.114	9.667	65.0	65.0
Pgt	2547505223934664960	00 31 48.10166 +02 08 18.91709	1.4	26.968	−25.12	2.31		21.5	0.274	10.404	0	2.3	92.9

Table 6 *continued on next page*

Table 6 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J340002	2034-06-07 05:25:56.43	00 33 37.90966 +02 19 26.81609	2.6	5.709	158.16	24.95	5.262	23.6	9.829	11.056	10.606	31.7	67.5
Pgt	2544532934766855936	00 33 38.05139 +02 19 21.51687	2.0	21.788	−25.08	2.33		16.5	0.173	11.295	0	2.5	54.6
J340003*	2034-07-19 14:35:02.96	00 50 27.33704 +03 54 08.38396	4.0	21.964	343.01	6.56	4.623		9.985	11.578	11.053	216.8	103.4
P	2552435949469102080	00 50 26.90827 +03 54 29.38972	3.2	73.644	−24.66	2.66			0.157	10.368	0	4.1	151.7
J340004**	2034-08-22 05:16:56.46	00 49 44.57734 +03 39 54.47074	1.7	1.474	153.32	−7.83	4.180	6.4	9.762	11.700	11.070	323.0	135.9
Pgt	2550919070099417984	00 49 44.62156 +03 39 53.15332	1.7	4.469	−24.68	2.81		1.8		10.681	0	3.9	132.0
J340005	2034-10-07 04:46:06.84	00 31 00.68131 +01 33 56.31413	1.4	25.137	337.09	−15.90	3.958		9.463	10.859	10.373	280.7	174.0
Pt	2544385153533347200	00 31 00.02859 +01 34 19.46792	1.0	72.168	−25.14	2.73			0.158	10.610	1	1.8	126.2
J340006	2034-10-15 16:21:45.87	00 26 56.79600 +01 09 00.60543	1.6	6.181	157.53	−15.01	3.985	13.3	9.986	11.341	10.861	97.5	164.6
Pgt	2546975053172103168	00 26 56.95348 +01 08 54.89390	1.0	17.862	−25.22	2.69		19.5	0.117	11.029	1	1.3	127.8
J340007	2034-12-20 17:56:48.72	00 18 03.15830 +00 28 48.21512	1.4	5.469	332.94	10.49	4.754	−19.2	6.587	9.020	8.285	6.4	95.9
Pgt	2545560359664356352	00 18 02.99245 +00 28 53.08550	0.9	18.856	−25.35	2.34		−15.4	0.885	8.319	0	0.7	19.8
J340008	2034-12-21 21:42:27.72	00 18 21.05924 +00 31 27.32455	1.5	14.653	153.15	11.05	4.772	47.4	6.641	9.644	8.775	308.9	94.8
Pgt	2545561630974700416	00 18 21.50045 +00 31 14.25110	0.9	50.717	−25.35	2.34		50.3	0.985	9.000	0	0.7	36.4
J340009	2034-12-25 01:48:28.86	00 19 17.46629 +00 37 54.44965	1.7	18.393	333.58	12.57	4.823	−67.8	7.751	10.483	9.685	244.5	91.8
Pgt	2545567094173124096	00 19 16.92060 +00 38 10.92064	1.4	64.333	−25.34	2.33		−65.8	0.551	9.979	0	0.8	83.9
J350001	2035-01-09 17:47:09.76	00 25 26.06476 +01 22 09.00817	2.5	16.455	334.89	19.93	5.071	−60.8	4.537	8.424	7.289	350.9	77.6
Pgt	2547038618688047232	00 25 25.59910 +01 22 23.90770	1.5	60.512	−25.24	2.32		−61.1	3.543	8.420	0	1.6	76.4
J350002	2035-01-26 00:36:58.16	00 34 16.10727 +02 23 33.67179	1.5	11.403	155.63	26.85	5.315	42.3	9.628	10.863	10.427	234.6	63.4
Pgt	2550538089320422528	00 34 16.42117 +02 23 23.28462	1.3	43.954	−25.07	2.34		40.9	0.188	11.183	0	2.6	145.2
J350003	2035-06-24 14:29:37.84	02 38 57.54697 +14 21 30.63135	2.2	7.283	162.66	32.14	5.547	28.7	8.445	10.792	10.056	270.2	50.6
Pgt	33009744247526528	02 38 57.69632 +14 21 23.67876	1.7	29.299	−18.78	3.07		25.5	0.427	11.307	0	14.5	87.9
J350004	2035-06-28 22:39:59.60	02 42 11.19370 +14 36 06.71397	1.8	12.587	162.94	30.75	5.495	49.6	6.227	8.613	7.873	144.2	53.9
Pgt	32996588763444736	02 42 11.44813 +14 35 54.68130	1.6	50.159	−18.54	3.09		46.7	1.196	9.081	0	14.7	34.1
J350005	2035-07-12 13:15:16.81	02 51 33.85660 +15 16 39.37444	1.5	8.044	163.80	25.93	5.318	30.5	9.265	11.538	10.837	274.3	64.6
Pgt	33361484889196288	02 51 34.01170 +15 16 31.64984	1.5	31.023	−17.81	3.16		27.0	0.291	11.820	0	15.4	157.2
J350006	2035-10-09 20:57:05.08	03 06 36.05411 +16 06 09.22341	1.2	12.498	343.34	−11.81	4.111	−34.7	9.448	11.987	11.223	74.6	147.2
Pgt	34356061876157184	03 06 35.80546 +16 06 21.19685	0.9	37.262	−16.58	3.43		−34.9	0.215	11.415	0	16.2	117.8
J350007	2035-10-23 16:36:58.49	03 00 29.28802 +15 40 37.45862	1.4	17.676	163.66	−15.09	4.025	49.0	9.524	11.105	10.560	124.4	162.4
Pgt	34010265469281152	03 00 29.63229 +15 40 20.49613	1.2	51.596	−17.09	3.42		50.5	0.164	10.799	1	15.8	70.0
J350008	2035-10-23 20:03:09.73	03 00 24.94251 +15 40 24.02327	1.4	22.438	163.67	−15.11	4.024	68.0	9.438	10.936	10.418	72.7	162.5
Pgt	34010299829019648	03 00 25.37946 +15 40 02.49051	1.1	65.487	−17.09	3.42		69.4	0.166	10.631	0	15.8	72.0
J350009	2035-10-31 23:42:08.16	02 56 13.32251 +15 21 53.84048	1.4	22.211	343.72	−16.16	3.999	−67.9	7.920	9.270	8.797	8.9	171.7
Pgt	34080604149311488	02 56 12.89203 +15 22 15.16086	1.0	64.422	−17.44	3.40		−65.8	0.320	9.039	0	15.5	176.0
J350010	2035-11-21 21:16:10.65	02 45 07.03386 +14 35 17.64590	1.3	14.022	343.95	−15.34	4.029	−40.8	8.748	9.868	9.461	22.0	164.4
Pgt	32879593854245632	02 45 06.76679 +14 35 31.12082	1.0	40.971	−18.32	3.32		−36.1	0.211	9.580	0	14.7	101.3
J350011*	2035-11-28 08:26:37.18	02 42 00.79414 +14 22 29.12359	1.8	8.985	344.15	−14.12	4.065	−27.4	8.592	9.524	9.178	207.3	157.1
Pgt	32972085974380032	02 42 00.62522 +14 22 37.76718	1.7	26.491	−18.56	3.29		−21.5	0.221	9.146	0	14.5	172.7
J350012	2035-12-12 13:35:04.63	02 36 28.22534 +14 00 39.88451	1.3	16.785	165.26	−9.95	4.185	44.9	7.490	9.872	9.137	114.7	141.3
Pgt	26980709675660288	02 36 28.51884 +14 00 23.65201	1.2	50.948	−18.97	3.21		53.2	0.528	9.114	0	14.2	5.8
J360001	2036-01-24 12:19:43.90	02 34 59.46560 +14 06 15.45796	1.1	18.836	337.70	9.41	4.780	−71.3	9.572	11.913	11.193	90.9	97.3
Pgt	75026344152412800	02 34 58.97439 +14 06 32.88557	0.9	65.299	−19.08	2.99		−65.5		11.094	0	14.3	139.5
J360002	2036-03-07 03:23:14.03	02 55 33.49282 +15 50 40.72028	1.7	16.696	342.19	28.30	5.441	−69.8	9.088	11.714	10.930	188.1	59.5
Pgt	34160245727252608	02 55 33.13888 +15 50 56.61604	1.5	65.888	−17.48	2.90		−69.2	0.295	12.091	0	16.0	49.5
J360003	2036-03-15 17:47:35.37	03 01 40.65900 +16 18 54.99790	3.3	8.494	162.82	31.32	5.557	31.6	5.933	8.265	7.547	325.1	52.4
Pgt	34248069218428800	03 01 40.83331 +16 18 46.88312	3.0	34.231	−16.98	2.89		32.1	1.367	8.752	0	16.5	170.0
J360004	2036-07-25 15:49:20.20	05 02 37.76364 +22 09 55.63877	1.8	4.895	354.25	33.46	5.700	−19.1	6.751	10.042	9.107	254.9	46.0
Pgt	3412244662182921472	05 02 37.72835 +22 10 00.50904	1.2	20.235	−5.31	2.80		−18.1	1.343	10.600	0	22.2	77.6
J360005	2036-07-31 02:50:40.47	05 07 06.22325 +22 15 46.38430	1.3	14.504	354.71	31.80	5.638	−59.7	9.650	12.382	11.561	85.3	50.2
Pgt	3415251444231982976	05 07 06.12688 +22 16 00.82676	0.9	59.314	−4.84	2.79		−58.9	0.271	12.885	0	22.3	151.8

Table 6 *continued on next page*

Table 6 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J360006	2036-08-03 11:26:35.63	05 09 45.91560 +22 19 15.39789	2.8	5.651	354.98	30.73	5.599	−21.7	9.860	11.632	11.045	313.7	52.8
Pgt	3415290270736092416	05 09 45.87994 +22 19 21.02746	1.9	22.948	−4.55	2.79		−20.6	0.195	12.098	0	22.4	166.5
J360007	2036-08-10 12:30:55.52	05 15 06.52768 +22 25 29.40237	2.0	1.352	355.52	28.34	5.511	−5.5	7.991	11.687	10.683	292.0	58.3
Pgt	3415444614679633792	05 15 06.52007 +22 25 30.74995	1.4	5.403	−3.99	2.78		−4.4	0.750	12.065	0	22.5	84.5
J360008	2036-08-14 16:00:25.82	05 18 05.36393 +22 28 19.47750	1.3	18.884	355.83	26.84	5.456		9.077	12.421	11.456	236.3	61.6
P	3414707460852680064	05 18 05.26480 +22 28 38.31152	0.8	74.731	−3.67	2.77			0.408	12.740	0	22.5	33.6
J360009*	2036-08-18 16:34:45.67	05 20 51.11494 +22 31 10.30658	2.3	10.164	356.11	25.33	5.402	−37.9	9.815	13.467	12.422	224.4	64.8
Pgt	3414743607298288640	05 20 51.06514 +22 31 20.44734	1.5	39.821	−3.37	2.77		−36.8	0.274	13.724	0	22.6	22.2
J360010	2036-08-19 20:34:49.99	05 21 37.54869 +22 32 23.14260	1.4	19.248	176.18	24.87	5.386		9.136	13.053	11.944	163.5	65.8
P	3414755186529284224	05 21 37.64127 +22 32 03.93719	0.9	75.185	−3.29	2.77			0.418	13.289	0	22.6	39.2
J360011*	2036-08-22 07:55:40.93	05 23 14.07805 +22 33 19.15505	2.9	11.922	356.35	23.89	5.351	−44.5	9.598	13.114	12.098	351.2	67.8
Pgt	3414571842966512512	05 23 14.02331 +22 33 31.05247	1.9	46.267	−3.12	2.76		−43.5	0.299	13.307	0	22.6	76.3
J360012	2036-09-09 12:50:25.65	05 33 15.45029 +22 41 05.83074	1.2	0.110	357.39	16.16	5.083	−1.0	9.868	12.604	11.781	262.1	83.1
Pgt	3404079276518757248	05 33 15.44993 +22 41 05.94033	0.8	0.404	−2.04	2.74		0.3		12.373	0	22.7	54.5
J360013	2036-09-12 19:02:27.59	05 34 40.95402 +22 41 45.81064	1.8	12.425	357.55	14.69	5.034	−43.6	9.705	11.073	10.590	166.2	85.9
Pgt	3404439946400149120	05 34 40.91561 +22 41 58.22401	1.1	45.362	−1.89	2.74		−42.5	0.196	10.738	0	22.7	12.9
J360014	2036-09-14 23:26:18.46	05 35 34.06279 +22 42 19.27264	3.2	9.932	357.64	13.69	5.001	−34.2	7.618	12.664	11.343	98.3	87.8
Pgt	3404250147498031232	05 35 34.03321 +22 42 29.19600	1.6	36.020	−1.79	2.73		−33.0	1.074	12.252	0	22.7	17.9
J360015	2036-09-15 03:03:36.38	05 35 37.57243 +22 42 33.41348	1.6	2.194	177.64	13.62	4.998	6.6	9.320	13.181	12.133	43.9	88.0
Pgt	3404250525455147648	05 35 37.57897 +22 42 31.22175	0.8	7.952	−1.79	2.73		7.9	0.345	12.764	1	22.7	20.0
J360016	2036-09-20 17:45:47.58	05 37 37.55722 +22 43 29.26480	1.5	7.395	357.85	10.99	4.913	−25.0	7.517	8.792	8.332	178.3	93.0
Pgt	3404264544228619904	05 37 37.53719 +22 43 36.65428	0.8	26.347	−1.57	2.73		−23.7	0.470	8.143	0	22.7	102.1
J360017*	2036-09-22 00:26:50.67	05 38 01.50260 +22 43 59.71409	2.2	10.708	177.88	10.39	4.893	34.9	8.157	11.978	10.946	76.9	94.2
Pgt	3404218948855778048	05 38 01.53121 +22 43 49.01325	1.2	38.001	−1.53	2.73		36.2	0.601	11.267	0	22.7	120.4
J360018	2036-09-23 08:47:07.49	05 38 25.45590 +22 43 57.82169	1.3	3.269	357.93	9.75	4.873	−11.2	9.421	13.524	12.437	310.6	95.4
Pgt	3404218330380459904	05 38 25.44738 +22 44 01.08813	0.7	11.551	−1.49	2.73		−9.9	0.334	12.744	0	22.8	139.0
J360019	2036-10-08 08:29:25.86	05 41 12.74800 +22 45 11.87706	1.5	8.053	358.04	2.66	4.650	−25.9	9.424	10.387	10.026	300.9	109.5
Pgt	3403549994811424128	05 41 12.72807 +22 45 19.92542	0.8	27.157	−1.19	2.72		−24.3	0.173	8.196	0	22.8	36.1
J360020***	2036-11-04 18:59:14.58	05 38 01.50259 +22 43 59.71366	1.9	17.713	358.37	−9.25	4.304	−54.1	8.157	11.978	10.946	115.6	137.5
Pgt	3404218948855778048	05 38 01.46611 +22 44 17.41905	1.1	55.293	−1.53	2.72		−54.3	0.528	11.141	0	22.8	33.4
J360021*	2036-11-12 14:32:30.89	05 35 13.71675 +22 43 21.47398	4.8	14.401	178.15	−11.95	4.231	41.8	9.686	10.268	10.069	173.9	146.0
Pgt	3404254025850351360	05 35 13.75027 +22 43 07.08036	2.7	44.196	−1.83	2.72		41.8	0.131	9.708	0	22.7	76.3
J360022	2036-11-12 23:47:47.98	05 35 04.27112 +22 43 27.36309	1.4	24.521	178.15	−12.07	4.228		9.514	12.786	11.838	34.7	146.4
Pt	3404252823259508352	05 35 04.32848 +22 43 02.85452	0.7	75.198	−1.85	2.72			0.234	12.238	0	22.7	81.7
J360023	2036-11-13 23:34:59.49	05 34 39.70312 +22 42 29.40964	1.3	22.248	358.10	−12.38	4.220	−74.1	9.567	12.591	11.706	36.8	147.5
Pgt	3404440156850906880	05 34 39.64969 +22 42 51.64530	0.8	68.096	−1.89	2.72		−74.1	0.214	12.070	0	22.7	95.8
J360024	2036-11-18 00:28:34.93	05 32 52.52612 +22 41 45.16612	1.1	15.470	357.95	−13.54	4.190	−44.8	9.623	12.901	11.977	19.0	152.0
Pgt	3404074328716458880	05 32 52.48618 +22 42 00.62661	0.7	47.012	−2.08	2.72		−44.7	0.224	12.477	0	22.7	151.8
J360025	2036-11-20 14:26:33.32	05 31 38.84950 +22 41 01.44871	1.2	21.932	357.85	−14.20	4.173	−70.5	9.165	13.211	12.132	166.6	154.9
Pgt	3404100025504193536	05 31 38.79016 +22 41 23.36543	0.9	66.376	−2.22	2.72		−70.4	0.317	12.839	0	22.7	173.4
J360026	2036-11-25 05:19:06.37	05 29 18.15093 +22 40 16.09845	1.1	8.632	177.68	−15.20	4.147	23.8	9.825	12.645	11.814	298.4	160.1
Pgt	3404111299794787712	05 29 18.17620 +22 40 07.47327	0.7	25.964	−2.47	2.72		24.1	0.185	12.347	0	22.7	117.6
J360027	2036-11-25 14:53:36.09	05 29 05.53472 +22 40 10.01481	1.6	9.657	177.66	−15.28	4.145	26.7	8.633	11.388	10.577	154.3	160.5
Pgt	3404111432936207744	05 29 05.56318 +22 40 00.36561	1.0	29.033	−2.49	2.72		27.0		11.096	0	22.7	112.8
J360028	2036-11-27 12:14:27.14	05 28 04.98110 +22 39 09.21313	1.3	16.319	357.58	−15.62	4.137	−47.1	9.170	12.619	11.666	192.0	162.7
Pgt	3416029524803139968	05 28 04.93137 +22 39 25.51736	0.8	48.958	−2.60	2.72		−46.7	0.283	12.350	0	22.7	90.1
J360029	2036-11-28 06:53:57.04	05 27 39.53250 +22 39 26.21700	1.2	15.616	177.55	−15.75	4.133	44.4	8.437	11.882	10.916	271.2	163.6
Pgt	3416024263465907456	05 27 39.58064 +22 39 10.61503	0.7	46.814	−2.64	2.72		44.8	0.411	11.623	0	22.7	80.6
J360030	2036-12-02 11:21:33.72	05 25 19.62776 +22 37 30.72344	1.7	14.145	357.38	−16.32	4.119	−40.1	8.143	11.629	10.577	199.6	168.3
Pgt	3416064052043647360	05 25 19.58106 +22 37 44.85351	1.0	42.259	−2.89	2.72		−39.5	0.485	11.409	0	22.7	26.3

Table 6 *continued on next page*

Table 6 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J360031	2036-12-04 06:13:24.86	05 24 18.26608 +22 37 31.11524	1.2	25.615	177.31	−16.51	4.115		9.863	13.613	12.567	274.6	170.4
Pt	3416069347739808896	05 24 18.35294 +22 37 05.52817	0.8	76.446	−3.00	2.72			0.210	13.405	0	22.6	3.3
J360032	2036-12-06 22:14:47.27	05 22 45.74488 +22 35 41.24374	1.6	22.690	357.19	−16.73	4.110	−73.4	9.930	13.972	12.864	31.3	173.4
Pgt	3414758553783643264	05 22 45.66469 +22 36 03.90670	1.0	67.638	−3.17	2.71		−72.7	0.217	13.778	0	22.6	37.7
J360033	2036-12-09 03:14:54.58	05 21 28.10009 +22 35 11.47595	1.9	1.056	177.10	−16.85	4.108	2.4	8.880	12.897	11.789	313.7	176.0
Pgt	3414767315516927232	05 21 28.10395 +22 35 10.42122	1.3	3.146	−3.31	2.71		3.3	0.364	12.711	0	22.6	69.6
J360034	2036-12-13 03:14:42.03	05 19 06.79745 +22 33 06.53818	2.0	21.968	356.94	−16.93	4.108	−69.2	7.305	11.367	10.279	309.2	179.2
Pgt	3414790993673539840	05 19 06.71275 +22 33 28.47456	1.3	65.447	−3.56	2.71		−68.3	0.806	11.186	0	22.6	125.7
J360035	2036-12-22 00:29:34.26	05 13 56.40544 +22 29 31.40722	0.9	5.481	176.62	−16.39	4.126	14.2	9.935	12.439	11.665	340.5	169.1
Pgt	3415490450571870976	05 13 56.42878 +22 29 25.93560	0.6	16.401	−4.11	2.69		15.9	0.173	12.223	0	22.5	120.3
J360036*[a]	2036-12-25 15:40:23.95	05 11 54.56012 +22 27 54.58645	1.7	10.006	176.52	−15.89	4.140	26.9	9.800	12.329	11.452	108.7	165.0
Pgt	3415131700546138880	05 11 54.60399 +22 27 44.59846	1.2	30.046	−4.33	2.69		28.7		12.080	0	22.5	76.9
J360037[a]	2036-12-25 15:43:16.54	05 11 54.49773 +22 27 53.75980	10.2	9.234	176.52	−15.89	4.140	24.7	9.800	13.946		108.0	165.0
Pgt	3415131704839650560	05 11 54.53821 +22 27 44.54296	6.7	27.727	−4.33	2.69		26.5		13.696	0	22.5	76.8
J360038	2036-12-30 11:12:06.99	05 09 20.63458 +22 25 49.37285	1.1	16.559	176.42	−15.02	4.165	47.0	9.715	12.507	11.656	170.4	159.5
Pgt	3415304293805538048	05 09 20.70916 +22 25 32.84620	0.7	50.025	−4.60	2.68		49.1		12.196	0	22.5	15.1
J370001*	2037-01-01 06:47:20.16	05 08 25.40464 +22 24 32.95065	1.9	11.772	356.40	−14.63	4.177	−34.4	9.535	12.286	11.451	234.5	157.4
Pgt	3415301987406872064	05 08 25.35137 +22 24 44.69991	1.3	35.661	−4.70	2.67		−32.1	0.223	11.947	0	22.5	11.7
J370002	2037-01-01 08:30:30.62	05 08 23.18081 +22 24 47.26027	1.5	4.445	176.40	−14.61	4.177	11.1	8.263	11.694	10.732	208.7	157.3
Pgt	3415302193565301888	05 08 23.20094 +22 24 42.82377	1.0	13.467	−4.70	2.67		13.6		11.353	0	22.5	12.7
J370003	2037-01-03 20:24:57.76	05 07 09.98284 +22 23 36.51204	27.7	2.239	356.38	−14.02	4.194	−7.6	6.882	8.708	7.804	27.3	154.5
Pgt	3415257220963752320	05 07 09.97266 +22 23 38.74616	17.6	6.810	−4.83	2.67		−4.9	0.557	8.323	0	22.4	49.5
J370004	2037-01-07 08:09:53.23	05 05 33.59085 +22 21 49.31019	0.9	24.849	356.40	−13.10	4.221		9.735	12.371	11.563	207.2	150.6
P	3415265119406639744	05 05 33.47823 +22 22 14.10955	0.6	76.073	−5.00	2.66			0.182	11.912	0	22.4	100.8
J370005	2037-01-07 09:42:33.43	05 05 31.71783 +22 22 23.53427	1.1	10.944	176.39	−13.08	4.222	29.7	9.878	11.757	11.115	184.0	150.5
Pgt	3415265188126115456	05 05 31.76758 +22 22 12.61179	0.8	33.510	−5.00	2.66		32.6	0.156	11.296	0	22.4	101.8
J370006	2037-01-09 12:27:28.38	05 04 36.99296 +22 21 31.79190	1.2	6.973	176.41	−12.47	4.240	18.1	9.932	13.053	12.152	140.4	148.1
Pgt	3418244628416855680	05 04 37.02442 +22 21 24.83224	0.8	21.442	−5.10	2.66		21.4	0.198	12.540	0	22.4	131.2
J370007	2037-02-02 11:20:05.12	04 58 13.05191 +22 17 26.52654	1.3	15.899	182.00	−3.19	4.515	42.5	8.857	10.348	9.825	132.1	122.3
Pgt	3412470268224876160	04 58 13.01197 +22 17 10.63702	1.0	52.059	−5.78	2.59		57.7	0.251	8.353	0	22.3	84.4
J370008	2037-02-22 03:30:21.19	04 59 02.03639 +22 22 29.47754	1.5	19.799	169.92	6.23	4.809	72.6	8.585	11.596	10.723	230.3	102.6
Pgt	3412474494472909568	04 59 02.28609 +22 22 09.98369	1.1	69.050	−5.69	2.52		80.4	0.426	10.329	0	22.4	26.4
J370009	2037-03-07 07:35:16.42	05 02 36.14341 +22 29 25.11876	1.3	8.458	352.37	12.56	5.020	−31.0	9.353	12.156	11.314	157.0	90.2
Pgt	3418305926189992192	05 02 36.06243 +22 29 33.50222	0.9	30.796	−5.31	2.48		−26.1	0.291	11.651	0	22.5	161.2
J370010*	2037-03-10 21:29:23.01	05 03 57.07584 +22 32 00.78816	10.5	1.093	172.77	14.25	5.078	1.3	8.208	8.769	8.537	305.3	86.9
Pgt	3418262254962428160	05 03 57.08577 +22 31 59.70387	7.7	4.025	−5.17	2.47		6.0	0.308	8.401	1	22.6	153.1
J370011*	2037-03-13 16:46:07.80	05 05 06.95054 +22 34 06.58283	9.8	6.354	173.04	15.57	5.123	19.7	9.717	11.193	10.683	13.6	84.4
Pgt	3418274383950721280	05 05 07.00613 +22 34 00.27580	7.2	23.609	−5.05	2.46		23.9	0.186	10.921	0	22.6	120.0
J370012	2037-03-18 21:36:38.18	05 07 31.30810 +22 37 46.04832	1.7	9.750	353.49	17.95	5.207	−36.2	9.915	11.722	11.104	296.5	79.8
Pgt	3415367133471798016	05 07 31.22830 +22 37 55.73603	1.3	36.820	−4.79	2.44		−32.6	0.193	11.605	0	22.7	58.8
J370013	2037-03-20 04:27:30.16	05 08 09.60079 +22 39 03.27434	1.5	7.466	173.61	18.53	5.227	24.4	9.313	12.694	11.738	192.7	78.7
Pgt	3415361326673852672	05 08 09.66080 +22 38 55.85502	1.0	28.303	−4.72	2.43		28.0	0.342	12.611	0	22.7	43.3
J370014	2037-03-20 14:09:52.37	05 08 22.11266 +22 38 57.96115	1.5	17.049	353.63	18.71	5.234	−69.0	8.508	11.735	10.817	46.7	78.3
Pgt	3415360639479085440	05 08 21.97610 +22 39 14.90463	1.0	64.712	−4.70	2.43		−65.9		11.663	0	22.7	38.4
J370015	2037-03-28 10:56:13.34	05 12 41.68824 +22 45 46.05072	1.5	11.670	174.29	22.12	5.356	41.5	9.589	13.010	12.050	88.5	71.5
Pgt	3415513437236853376	05 12 41.77218 +22 45 34.43814	1.0	45.338	−4.24	2.41		44.5	0.312	13.120	0	22.8	66.9
J370016	2037-04-03 13:31:05.08	05 16 28.37336 +22 50 23.48832	1.8	10.386	354.78	24.60	5.449	−40.0	8.641	11.632	10.744	44.7	66.4
Pgt	3415482620848067584	05 16 28.30505 +22 50 33.83132	1.2	41.044	−3.84	2.38		−37.2		11.857	0	22.9	156.1
J370017	2037-04-08 07:01:24.15	05 19 37.45131 +22 54 12.98307	1.4	10.266	355.17	26.45	5.518	−40.0	9.205	13.131	12.069	138.2	62.4
Pgt	3414838203954001536	05 19 37.38880 +22 54 23.21290	1.0	41.085	−3.50	2.37		−37.3	0.407	13.434	0	22.9	143.3

Table 6 *continued on next page*

Table 6 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J370018	2037-04-09 16:43:25.31	05 20 35.79440 +22 55 14.45284	2.2	15.970	355.29	26.98	5.538	−67.7	9.582	13.544	12.469	351.6	61.3
Pgt	3414827483715597568	05 20 35.69946 +22 55 30.36882	1.2	64.144	−3.40	2.36		−65.3	0.342	13.869	0	23.0	126.8
J370019	2037-04-09 20:59:34.35	05 20 43.10565 +22 55 47.18448	2.6	8.376	175.31	27.05	5.541	29.9	8.885	12.904	11.818	287.4	61.1
Pgt	3414826757865125632	05 20 43.15522 +22 55 38.83634	1.4	33.659	−3.39	2.36		32.7	0.492	13.232	0	23.0	124.7
J370020	2037-04-11 15:44:22.59	05 21 58.59041 +22 57 13.24662	2.6	10.207	175.46	27.71	5.566	37.4	5.223	8.283	7.371	4.7	59.7
Pgt	3414783812488249088	05 21 58.64892 +22 57 03.07188	1.7	41.201	−3.25	2.35		40.1	2.262	8.637	0	23.0	104.0
J370021	2037-04-15 14:50:46.36	05 24 52.00064 +22 59 52.01360	2.3	14.249	355.79	29.14	5.620	−58.9	8.011	10.523	9.694	15.0	56.5
Pgt	3416109303818953216	05 24 51.92480 +23 00 06.22430	1.5	58.084	−2.94	2.34		−56.5	0.581	10.932	0	23.0	57.2
J370022	2037-04-21 23:53:03.57	05 29 45.15904 +23 04 30.24370	2.4	14.475	356.33	31.30	5.704	−61.3	7.768	11.703	10.636	234.3	51.4
Pgt	3416137723619044736	05 29 45.09195 +23 04 44.68951	1.6	59.886	−2.42	2.31		−58.9	0.882	12.189	0	23.1	24.2
J370023	2037-04-23 11:49:15.80	05 30 56.34129 +23 05 39.57231	1.8	6.933	356.47	31.78	5.723	−28.0	9.799	13.343	12.365	54.1	50.2
Pgt	3404148958067873024	05 30 56.31031 +23 05 46.49209	1.2	28.777	−2.29	2.31		−25.3	0.290	13.846	0	23.1	44.5
J370024	2037-04-27 01:24:47.01	05 33 49.32668 +23 08 00.79954	2.0	6.436	356.78	32.87	5.767	−26.2	6.839	10.100	9.178	207.4	47.4
Pgt	3404512999496164736	05 33 49.30049 +23 08 07.22506	1.2	26.917	−1.98	2.29		−23.5	1.162	10.640	0	23.2	95.2
J370025	2037-04-28 19:45:13.58	05 35 16.53121 +23 09 17.17368	2.8	3.990	176.94	33.39	5.788	14.0	9.576	14.351	13.130	290.9	46.0
Pgt	3404469190829659008	05 35 16.54664 +23 09 13.18887	1.9	16.751	−1.82	2.29		16.8	0.435	14.908	0	23.2	120.8
J370026	2037-08-29 09:57:48.61	07 29 34.19318 +21 53 35.67729	1.7	14.648	188.17	33.38	5.845	61.4	9.491	10.887	10.404	345.5	45.2
Pgt	865251608804486656	07 29 34.04358 +21 53 21.17850	1.4	62.094	10.22	1.58		65.2	0.230	11.443	0	21.8	95.3
J370027	2037-09-09 16:09:33.96	07 38 15.06202 +21 34 58.93286	1.7	12.378	8.89	29.83	5.714	−51.7	7.687	10.574	9.733	243.7	54.1
Pgt	865401039307016448	07 38 15.19923 +21 35 11.16234	1.4	51.297	11.08	1.50		−47.4	0.741	11.008	0	21.5	52.8
J370028*	2037-09-22 13:12:56.13	07 47 04.71938 +21 15 14.70350	2.6	5.110	189.55	25.08	5.544	16.2	8.639	11.378	10.576	277.3	64.5
Pgt	674444246408799360	07 47 04.65875 +21 15 09.66421	2.2	20.546	11.94	1.42		21.6	0.455	11.624	0	21.2	136.4
J370029*	2037-09-25 23:40:45.64	07 49 12.38440 +21 10 20.30047	23.6	13.153	189.68	23.71	5.495	48.4	9.599	11.070	10.412	117.5	67.4
Pgt	673706237883550976	07 49 12.22626 +21 10 07.33481	17.0	52.423	12.15	1.40		53.2	0.203	11.254	0	21.1	96.2
J370030*	2037-09-28 21:44:12.35	07 50 55.80086 +21 06 09.32109	2.5	10.509	189.78	22.52	5.453	36.5	8.794	11.310	10.549	144.2	69.9
Pgt	673781073396089984	07 50 55.67326 +21 05 58.96517	1.4	41.564	12.31	1.38		41.7	0.386	11.439	0	21.0	61.5
J370031	2037-10-20 13:09:51.76	08 01 02.86016 +20 41 13.78583	1.6	8.964	189.91	12.81	5.126	27.4	6.141	9.469	8.500	254.0	88.8
Pgt	670788889939194880	08 01 02.75027 +20 41 04.95530	1.1	33.327	13.27	1.26		34.6	1.455	8.985	0	20.6	130.9
J370032	2037-11-06 21:59:36.79	08 05 13.66896 +20 31 45.39256	1.5	12.381	186.92	4.43	4.860	34.2	8.172	11.006	10.180	105.5	105.2
Pgt	670686291760410752	08 05 13.56284 +20 31 33.10199	1.0	43.640	13.66	1.19		48.0	0.470	9.369	0	20.4	97.0
J380001*	2038-01-01 05:11:38.86	07 52 17.85599 +21 17 30.01194	1.4	11.618	191.96	−16.24	4.275	34.1	9.592	11.762	11.081	299.7	164.3
Pgt	673744548992090368	07 52 17.68369 +21 17 18.64590	0.9	36.020	12.44	1.13		33.1	0.196	11.536	0	21.2	108.8
J380002	2038-01-06 17:30:44.45	07 49 18.45464 +21 26 10.44466	1.1	9.952	191.58	−16.94	4.257	29.1	8.298	10.815	10.066	108.8	170.7
Pgt	674462353991820928	07 49 18.31154 +21 26 00.69578	0.7	30.728	12.15	1.13		27.9	0.383	10.635	0	21.3	175.3
J380003	2038-01-21 12:23:43.94	07 40 57.12856 +21 49 04.06212	1.3	11.636	190.64	−17.02	4.259	34.3	8.858	10.716	10.111	168.9	172.3
Pgt	673283956700242176	07 40 56.97429 +21 48 52.62634	0.9	35.939	11.35	1.16		32.8	0.247	10.541	0	21.7	12.3
J380004	2038-01-21 15:50:30.75	07 40 51.93060 +21 48 48.94426	1.3	16.582	10.63	−17.01	4.259	−48.7	8.419	10.968	10.195	117.0	172.1
Pgt	673283853621325184	07 40 52.15031 +21 49 05.24171	0.9	51.221	11.34	1.16		−50.1	0.322	10.793	0	21.7	14.4
J380005	2038-01-28 05:08:16.90	07 37 16.79094 +21 58 19.37856	0.9	1.972	190.24	−16.24	4.282	6.5	9.672	11.970	11.266	270.2	164.6
Pgt	865478657955367680	07 37 16.76573 +21 58 17.43827	0.8	6.123	10.99	1.17		4.8	0.172	11.744	0	21.9	109.1
J380006*	2038-01-30 07:29:07.41	07 36 10.30610 +22 00 52.08808	2.2	11.242	10.13	−15.90	4.292	−31.8	9.080	9.986	9.660	232.7	162.2
Pgt	865487832005346048	07 36 10.44827 +22 01 03.15503	1.8	34.995	10.88	1.17		−33.4	0.183	9.736	0	21.9	138.3
J380007	2038-04-09 06:35:43.97	07 27 25.41879 +22 23 23.21176	1.7	10.636	8.26	11.70	5.147	−39.1	9.233	10.086	9.764	175.9	91.1
Pgt	866078510268796672	07 27 25.52900 +22 23 33.73743	1.4	39.702	10.01	1.17		−35.5	0.205	9.504	0	22.3	41.2
J380008	2038-04-24 05:08:11.52	07 33 29.22837 +22 10 38.51965	11.0	10.618	8.92	18.49	5.385	−40.8	9.192	12.861	11.399	184.5	77.9
Pgt	865597095974649216	07 33 29.34692 +22 10 49.00917	10.8	41.472	10.61	1.13		−37.3	0.394	12.775	0	22.1	167.2
J380009	2038-05-25 17:52:56.85	07 53 01.64979 +21 23 48.18440	2.6	6.781	190.70	30.62	5.841	24.6	9.770	11.424	10.871	327.1	52.1
Pgt	673768497731753472	07 53 01.55965 +21 23 41.52117	1.7	28.726	12.51	0.99		28.6	0.226	11.886	0	21.3	143.3
J390001	2039-02-22 07:57:38.78	09 50 45.24862 +14 16 15.69866	1.4	17.609	200.07	−17.22	4.382	56.7	9.486	10.856	10.371	236.7	171.9
Pgt	616000225526042240	09 50 44.83304 +14 15 59.15843	1.0	55.958	21.81	−0.66		53.4	0.171	10.693	0	14.1	176.5

Table 6 *continued on next page*

Table 6 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J390002***	2039-03-07 21:25:38.64	09 44 16.43237 +14 49 14.52997	2.2	16.975	19.21	−15.08	4.441	−51.3	9.022	11.701	10.910	19.7	156.7
Pgt	619269447256900736	09 44 16.81748 +14 49 30.55974	1.7	54.668	21.42	−0.60		−55.6	0.296	11.394	0	14.6	12.5
J390003	2039-06-06 15:13:40.58	09 48 21.91129 +14 19 05.36312	2.3	1.832	20.21	22.68	5.665	−8.6	9.713	10.892	10.467	24.3	69.2
Pgt	616178071531699712	09 48 21.95483 +14 19 07.08239	1.7	7.527	21.67	−0.49		−5.2	0.191	11.029	0	14.1	108.7
J390004	2039-06-07 14:23:47.15	09 48 51.83228 +14 16 24.65907	2.1	2.370	20.22	23.06	5.679	−10.6	7.644	9.874	9.186	35.9	68.4
Pgt	616188413812944896	09 48 51.88863 +14 16 26.88304	1.7	9.762	21.70	−0.49		−7.3	0.611	10.028	0	14.1	123.2
J390005	2039-06-29 11:43:03.17	10 01 51.91700 +13 05 57.81508	2.0	1.935	20.61	30.96	5.978	−9.8	8.586	10.609	9.968	57.8	50.9
Pgt	3881537729816697600	10 01 51.96361 +13 05 59.62582	2.0	8.387	22.43	−0.59		−5.6	0.406	11.084	0	12.9	39.5
J390006	2039-11-06 03:13:05.30	11 40 29.89636 +03 16 22.89164	2.6	12.149	22.43	31.84	6.021	−54.5	9.697	11.077	10.581	82.1	48.8
Pgt	3800630274061911168	11 40 30.20588 +03 16 34.12175	1.7	53.057	25.48	−1.70		−48.5	0.218	11.582	0	3.1	74.4
J400001	2040-01-09 10:33:21.85	12 06 30.99058 +00 44 05.75297	2.1	3.639	191.86	3.54	5.060	−3.5	8.012	10.687	9.890	275.2	107.0
Pgt	3699070584028003712	12 06 30.94070 +00 44 02.19120	1.2	13.357	25.47	−2.20		27.1		8.807	1	0.5	42.1
J400002	2040-03-09 18:29:25.10	11 52 28.82917 +02 29 37.99295	1.6	2.224	204.05	−17.16	4.453	8.3	9.475	12.472	11.510	93.2	171.8
Pgt	3892583771522770176	11 52 28.76870 +02 29 35.96248	1.0	7.181	25.52	−2.28		4.9		12.306	0	2.3	127.9
J400003*	2040-06-15 01:51:29.09	11 34 21.50298 +04 11 44.83199	6.9	0.265	205.86	12.94	5.380	1.4	8.849	11.005	10.320	242.3	88.4
Pgt	3812907901933867392	11 34 21.49525 +04 11 44.59344	5.7	1.034	25.43	−1.87		0.5	0.333	10.532	0	4.0	30.5
J400004	2040-07-12 20:27:47.76	11 45 39.74208 +02 53 09.93022	2.6	17.063	204.54	24.74	5.799		9.228	11.365	10.681	298.6	65.0
Pt	3799628206652117248	11 45 39.26902 +02 52 54.40898	2.2	71.769	25.51	−1.89				11.596	0	2.7	27.3
J400005	2040-12-18 08:00:23.82	13 39 18.51950 −09 01 56.19583	2.4	15.739	20.16	27.24	5.875	−74.0	9.340	10.727	10.240	357.7	60.2
Pgt	3618168376721272960	13 39 18.88574 −09 01 41.42105	1.3	67.067	22.64	−2.86		−69.6	0.249	11.063	0	−9.2	121.7
J400006	2040-12-29 23:46:36.63	13 45 37.59239 −09 35 43.12417	3.6	16.056	19.53	22.43	5.704	−73.0	7.699	8.500	8.196	111.2	70.4
Pgt	3617284717265457152	13 45 37.95521 −09 35 27.99186	3.4	66.417	22.30	−2.94		−68.0	0.458	8.625	0	−9.8	19.3
J410001***	2041-01-06 14:22:31.27	13 49 10.40030 −09 53 51.02101	14.6	4.016	19.02	19.01	5.585	−18.4	9.240	10.622	10.122	245.6	77.2
Pgt	3617115289395384064	13 49 10.48887 −09 53 47.22394	11.8	16.269	22.10	−2.98		−11.5	0.252	10.567	0	−10.1	130.4
J410002	2041-01-28 03:37:40.79	13 56 12.94493 −10 27 57.77700	1.7	10.600	16.40	8.65	5.238	−43.2	9.605	11.979	11.254	27.4	97.3
Pgt	3613835033893119488	13 56 13.14785 −10 27 47.60841	1.4	40.271	21.69	−3.10		−32.3	0.240	11.069	0	−10.7	40.9
J410003	2041-04-12 00:05:44.39	13 42 00.98614 −08 55 15.78682	1.5	14.655	201.05	−17.09	4.449	46.5	9.933	12.064	11.412	4.0	174.8
Pgt	3618139553196283136	13 42 00.63099 −08 55 29.46392	1.2	47.288	22.50	−3.21		43.6		11.893	0	−9.1	55.6
J410004*	2041-04-27 10:56:12.59	13 34 35.63738 −08 14 00.00010	2.1	20.971	20.61	−16.59	4.459	−71.4	9.469	12.007	11.246	184.3	167.8
Pgt	3630106702176637952	13 34 36.13470 −08 13 40.37194	1.1	67.816	22.89	−3.15		−75.4		11.804	0	−8.4	151.9
J410005	2041-05-06 07:34:07.08	13 30 38.60110 −07 52 02.16214	2.6	16.186	20.26	−15.16	4.496	−48.4	9.271	11.433	10.757	225.1	158.2
Pgt	3630377529930240512	13 30 38.97833 −07 51 46.97733	1.2	52.786	23.08	−3.10		−53.9	0.227	11.132	0	−8.1	88.5
J410006*	2041-08-12 20:39:06.90	13 36 13.33451 −08 49 46.80790	2.7	11.085	22.68	24.70	5.776	−44.3	9.788	11.838	11.194	293.1	65.6
Pgt	3618047159859747328	13 36 13.62281 −08 49 36.57987	1.6	46.438	22.79	−2.75		−44.0	0.231	12.067	0	−9.0	125.5
J420001	2042-01-01 00:40:07.39	15 25 59.23055 −17 45 29.16114	1.9	2.575	194.04	33.29	6.044	9.4	9.736	12.584	11.760	121.2	46.5
Pgt	6258015500603722496	15 25 59.18681 −17 45 31.65931	1.8	11.288	14.88	−3.10		11.3	0.276	13.137	0	−17.9	160.6
J420002	2042-01-02 01:42:14.70	15 26 45.42307 −17 48 20.78674	2.2	4.247	13.97	32.95	6.031	−18.0	8.047	10.587	9.811	104.9	47.4
Pgt	6258386688858652800	15 26 45.49487 −17 48 16.66494	2.0	18.580	14.81	−3.10		−16.1	0.592	11.129	0	−17.9	174.2
J420003	2042-02-14 18:46:22.90	15 52 09.33657 −19 09 31.74452	2.3	17.215	10.99	15.06	5.391	−73.6	5.936	9.540	8.538	172.1	85.6
Pgt	6247888276957094016	15 52 09.56811 −19 09 14.84471	1.6	67.306	12.46	−3.21		−71.0	1.781	9.232	0	−19.3	13.6
J420004*	2042-05-05 09:23:16.92	15 44 47.61036 −18 39 31.50940	32.0	3.117	12.54	−15.97	4.404	−8.4	8.712	10.788	10.122	232.6	166.2
Pgt	6260114468300854912	15 44 47.65798 −18 39 28.46640	23.6	9.956	13.16	−3.31		−9.8	0.285	10.543	0	−18.8	12.9
J420005	2042-05-07 23:08:28.30	15 43 30.32066 −18 35 34.10680	1.8	10.087	12.56	−16.28	4.394	−29.1	8.580	10.058	9.550	23.4	169.0
Pgt	6260108180468331520	15 43 30.47493 −18 35 24.26140	1.4	32.143	13.28	−3.31		−30.6	0.275	9.834	0	−18.7	20.3
J420006	2042-05-23 05:30:17.64	15 35 35.11616 −18 09 49.67855	1.8	17.517	192.69	−16.71	4.376	55.8	9.725	13.255	12.132	270.9	174.2
Pgt	6255163126922869760	15 35 34.84615 −18 10 06.76798	1.3	55.596	14.01	−3.27		53.2	0.234	13.060	0	−18.3	125.0
J420007	2042-05-30 19:51:10.73	15 31 43.30404 −17 57 33.66851	1.8	8.838	192.70	−15.99	4.393	27.8	9.727	12.037	11.320	47.3	166.0
Pgt	6255333688664805504	15 31 43.16791 −17 57 42.29042	1.5	28.160	14.37	−3.25		24.2		11.794	0	−18.1	31.8
J420008	2042-06-10 21:55:06.67	15 26 35.08506 −17 41 31.65756	1.5	16.216	12.56	−13.96	4.448	−48.4	9.087	12.256	11.347	4.1	154.2
Pgt	6258391945898645504	15 26 35.33173 −17 41 15.82926	1.3	52.309	14.83	−3.20		−52.8		11.865	0	−17.8	114.1

Table 6 *continued on next page*

Table 6 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J420009	2042-06-28 00:07:38.41	15 20 38.13134 −17 23 10.55352	1.9	12.461	11.27	−8.81	4.593	−34.8	9.230	10.397	9.967	312.6	136.4
Pgt	6258277042632220544	15 20 38.30141 −17 22 58.33297	1.7	41.511	15.36	−3.13		−43.2	0.200	9.506	0	−17.5	19.0
J420010	2042-07-02 19:53:56.12	15 19 30.80840 −17 19 45.18456	2.0	8.144	190.27	−7.01	4.646	31.0	9.841	11.145	10.681	11.0	131.5
Pgt	6259026467181138176	15 19 30.70701 −17 19 53.19779	1.7	27.440	15.46	−3.11		19.7	0.149	10.007	0	−17.5	42.4
J420011	2042-08-07 04:13:21.80	15 19 46.06399 −17 29 47.56576	1.9	1.297	198.93	8.57	5.131	8.4	8.953	11.937	11.075	211.4	97.9
Pgt	6259019251636050048	15 19 46.03456 −17 29 48.79293	1.6	4.828	15.43	−2.96		0.4		11.018	0	−17.7	155.4
J420012	2042-09-20 18:06:13.19	15 39 50.07818 −18 50 52.35637	2.5	1.456	14.26	27.80	5.788	−4.9	9.440	10.833	10.344	324.2	59.8
Pgt	6254291248561277312	15 39 50.10345 −18 50 50.94487	2.0	6.113	13.62	−2.85		−6.3	0.260	11.191	0	−19.0	10.8
J420013	2042-09-26 07:39:04.89	15 43 34.38237 −19 04 06.38373	2.2	0.559	193.83	29.81	5.859	2.8	8.969	11.232	10.524	116.5	55.2
Pg	6260075504351731200	15 43 34.37295 −19 04 06.92649	1.6	2.375	13.27	−2.84		1.5	0.371	11.665	1	−19.2	81.7
J420014	2042-10-06 10:43:08.99	15 50 55.71358 −19 28 42.53118	2.9	17.361	193.06	33.16	5.979		9.670	11.827	11.147	62.3	47.1
P	6247852955145583744	15 50 55.43621 −19 28 59.44307	1.8	75.285	12.57	−2.83				12.376	0	−19.6	132.6
J430001	2043-01-30 04:17:52.96	17 35 28.17333 −22 51 10.75595	11.7	12.458	2.62	34.20	5.961	−51.7	8.185	14.774	13.204	70.7	45.2
Pg	4116694580969914752	17 35 28.21453 −22 50 58.31086	6.7	53.862	1.80	−2.59		−53.2		15.357	0	−22.9	77.4
J430002	2043-01-30 12:36:14.83	17 35 45.34179 −22 50 52.65829	3.4	16.402	182.59	34.09	5.957	83.6	8.561	13.724	12.399	305.9	45.5
Pg	4116787554070788224	17 35 45.28823 −22 51 09.04398	1.7	70.867	1.77	−2.59		82.3	0.852	14.303	0	−22.9	73.3
J430003	2043-01-31 02:55:58.79	17 36 14.64036 −22 51 29.30707	4.7	2.087	2.54	33.91	5.950	−7.3	9.594	14.841	13.491	90.5	46.0
Pgt	4116785939163006976	17 36 14.64705 −22 51 27.22213	2.5	9.006	1.72	−2.59		−9.2	0.548	15.414	0	−22.9	66.3
J430004	2043-02-01 00:01:23.99	17 36 57.64391 −22 51 50.98684	7.6	2.223	182.47	33.64	5.940	9.7	8.513	14.562	13.072	133.4	46.7
Pgt	4116744162092386304	17 36 57.63699 −22 51 53.20818	4.1	9.578	1.64	−2.59		7.8	1.266	15.126	0	−22.9	56.0
J430005	2043-02-01 06:08:43.53	17 37 10.02577 −22 52 13.75025	4.3	13.181	2.45	33.56	5.937	−55.2	8.881	14.504	13.138	41.4	46.9
Pgt	4116743268739060608	17 37 10.06653 −22 52 00.58116	2.5	56.754	1.62	−2.59		−56.8	0.832	15.066	0	−22.9	53.1
J430006	2043-02-01 11:12:07.48	17 37 20.31227 −22 52 07.78850	8.5	1.176	2.43	33.50	5.934	−3.7	7.945	14.436	12.919	325.4	47.1
Pgt	4116740653027719808	17 37 20.31588 −22 52 06.61339	4.9	5.062	1.60	−2.59		−5.6	1.586	14.996	0	−22.9	50.6
J430007	2043-02-02 10:59:49.51	17 38 08.32528 −22 52 37.19901	4.7	2.898	2.35	33.18	5.922	−10.5	9.541	14.590	13.317	327.7	47.9
Pgt	4116729623551632384	17 38 08.33388 −22 52 34.30364	2.6	12.447	1.52	−2.58		−12.4	0.458	15.140	0	−22.9	39.2
J430008*	2043-02-02 21:51:58.15	17 38 30.10329 −22 53 02.63410	4.8	16.073	2.31	33.04	5.917	−75.6	9.505	13.499	12.320	164.3	48.3
Pgt	4116752129180238720	17 38 30.15026 −22 52 46.57404	2.7	68.972	1.48	−2.58		−77.1	0.305	14.043	0	−22.9	34.0
J430009	2043-02-03 00:13:27.62	17 38 34.85896 −22 52 54.31332	3.5	5.112	2.31	33.00	5.915	−19.3	8.522	11.771	10.822	128.8	48.4
Pgt	4116751957379626368	17 38 34.87384 −22 52 49.20516	1.9	21.933	1.47	−2.58		−21.1	0.488	12.315	0	−22.9	32.8
J430010	2043-02-03 01:33:05.18	17 38 37.48310 −22 53 06.99287	2.9	16.325	2.30	32.99	5.915	−78.8	9.075	13.421	12.268	108.9	48.4
Pg	4116751991741277696	17 38 37.53055 −22 52 50.68099	1.5	70.031	1.46	−2.58		−80.2	0.439	13.964	0	−22.9	32.2
J430011	2043-02-03 02:16:52.39	17 38 38.98074 −22 52 55.03125	4.9	3.543	2.30	32.98	5.914	−13.0	8.221	13.742	12.350	97.9	48.4
Pgt	4116751991741277824	17 38 38.99102 −22 52 51.49107	2.6	15.198	1.46	−2.58		−14.9	0.984	14.285	0	−22.9	31.8
J430012	2043-02-03 03:09:31.50	17 38 40.75758 −22 52 48.71657	8.8	3.750	182.29	32.96	5.914	15.7	8.209	14.618	13.068	84.7	48.5
Pgt	4116752030421388160	17 38 40.74672 −22 52 52.46374	4.7	16.085	1.46	−2.58		13.8		15.160	0	−22.9	31.4
J430013	2043-02-03 13:41:45.63	17 39 01.80291 −22 52 59.58779	2.7	4.440	182.26	32.82	5.909	18.4	8.663	13.370	12.149	286.3	48.8
Pgt	4116749247335039488	17 39 01.79025 −22 53 04.02420	1.5	19.026	1.42	−2.58		16.6	0.575	13.908	0	−22.9	26.4
J430014	2043-02-03 14:38:30.69	17 39 03.67478 −22 53 05.35689	10.5	0.306	2.26	32.81	5.908	−0.2	7.578	14.767	13.082	272.1	48.9
Pgt	4116748525780517376	17 39 03.67565 −22 53 05.05115	6.1	1.311	1.42	−2.58		−2.2	1.962	15.304	0	−22.9	25.9
J430015	2043-02-03 15:05:52.87	17 39 04.57209 −22 53 09.98054	9.3	4.438	2.25	32.80	5.908	−16.5	8.452	14.988	13.438	265.2	48.9
Pgt	4116748525780507392	17 39 04.58473 −22 53 05.54580	5.3	19.017	1.42	−2.58		−18.4		15.525	0	−22.9	25.7
J430016	2043-02-03 15:27:21.95	17 39 05.27935 −22 53 12.56794	7.1	6.639	2.25	32.80	5.908	−25.4	8.169	14.301	12.797	259.9	48.9
Pgt	4116748521407651712	17 39 05.29824 −22 53 05.93380	4.2	28.447	1.41	−2.58		−27.2	1.300	14.838	0	−22.9	25.5

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

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

Table 7. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K ≤ 10 (part 7 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430017	2043-02-03 15:32:37.55	17 39 05.50739 −22 52 53.90525	11.2	12.133	182.25	32.80	5.908	51.1	7.545	14.842	13.220	258.5	48.9
Pgt	4116748525780511232	17 39 05.47292 −22 53 06.02875	6.4	51.984	1.41	−2.58		49.4		15.379	0	−22.9	25.5
J430018	2043-02-04 01:21:45.32	17 39 24.95928 −22 53 32.86811	11.2	16.312	2.22	32.66	5.903	−78.1	7.775	14.619	13.013	110.9	49.2
Pg	4116562124274630144	17 39 25.00506 −22 53 16.56842	6.3	69.830	1.38	−2.58		−79.6		15.152	0	−22.9	20.8
J430019	2043-02-04 02:33:39.81	17 39 27.35643 −22 53 27.97683	8.1	10.142	2.22	32.64	5.902	−40.2	7.155	13.279	11.790	92.9	49.3
Pgt	4116562085476003200	17 39 27.38483 −22 53 17.84197	4.5	43.415	1.38	−2.58		−41.9	2.541	13.811	0	−22.9	20.2
J430020	2043-02-04 12:24:46.20	17 39 46.90018 −22 53 32.55716	4.0	4.355	2.18	32.51	5.897	−16.2	9.322	14.197	12.977	304.8	49.6
Pgt	4116561570079924736	17 39 46.91219 −22 53 28.20518	2.5	18.626	1.34	−2.58		−18.1	0.434	14.724	0	−22.9	15.6
J430021	2043-02-04 18:59:10.90	17 39 59.92171 −22 53 29.53872	3.7	5.480	182.16	32.42	5.893	22.5	8.699	14.022	12.738	206.0	49.9
Pgt	4116567175157410944	17 39 59.90676 −22 53 35.01526	2.1	23.425	1.32	−2.58		20.7	0.776	14.546	0	−22.9	12.5
J430022	2043-02-04 19:14:08.57	17 40 00.35721 −22 53 50.61010	8.6	15.349	2.16	32.42	5.893	−68.2	7.983	14.188	12.700	202.2	49.9
Pgt	4116567170717263360	17 40 00.39913 −22 53 35.27194	4.8	65.605	1.32	−2.58		−69.8	1.503	14.713	0	−22.9	12.4
J430023	2043-02-05 06:28:04.96	17 40 22.52637 −22 53 50.16805	3.3	3.461	2.12	32.26	5.887	−12.6	8.831	13.939	12.680	33.4	50.3
Pgt	4116564426378262272	17 40 22.53565 −22 53 46.70974	2.0	14.777	1.28	−2.58		−14.5	0.638	14.458	0	−22.9	7.7
J430024	2043-02-05 09:07:31.13	17 40 27.73317 −22 53 59.50534	5.8	10.132	2.12	32.22	5.886	−40.0	8.424	14.199	12.776	353.4	50.3
Pgt	4116563700382832000	17 40 27.76024 −22 53 49.38010	3.5	43.253	1.27	−2.58		−41.7	1.073	14.717	0	−22.9	6.8
J430025	2043-02-05 10:30:20.21	17 40 30.42632 −22 54 07.96470	5.1	17.215	2.11	32.20	5.885		9.285	14.705	13.367	332.7	50.4
P	4116563704823726592	17 40 30.47225 −22 53 50.76186	3.1	73.479	1.26	−2.58			0.666	15.222	0	−22.9	6.4
J430026	2043-02-05 21:36:01.18	17 40 52.20753 −22 54 08.22147	7.5	6.489	2.07	32.05	5.879	−24.7	8.285	14.493	12.998	165.9	50.8
Pgt	4116553259460808320	17 40 52.22452 −22 54 01.73641	4.4	27.672	1.22	−2.57		−26.5		15.005	0	−22.9	5.8
J430027	2043-02-05 22:37:03.20	17 40 54.17521 −22 54 17.83631	10.4	15.115	2.07	32.03	5.879	−66.2	8.415	14.961	13.445	150.6	50.8
Pgt	4116553087662098048	17 40 54.21476 −22 54 02.73092	6.1	64.448	1.22	−2.57		−67.8		15.472	0	−22.9	6.1
J430028	2043-02-06 02:39:52.75	17 41 02.11523 −22 54 10.88289	3.0	4.217	2.06	31.98	5.877	−15.6	9.858	13.788	12.709	89.8	51.0
Pgt	4116553396899701504	17 41 02.12618 −22 54 06.66830	1.7	17.975	1.21	−2.57		−17.5	0.311	14.298	0	−22.9	7.2
J430029	2043-02-06 11:07:23.21	17 41 18.60503 −22 54 22.82709	3.3	8.034	2.03	31.86	5.872	−30.9	8.873	14.154	12.842	322.6	51.3
Pgt	4116552464748366336	17 41 18.62563 −22 54 14.79765	1.8	34.219	1.18	−2.57		−32.8	0.731	14.660	0	−22.9	10.7
J430030	2043-02-06 16:57:28.72	17 41 29.97524 −22 54 21.87255	6.2	1.546	2.01	31.78	5.869	−5.1	8.786	14.846	13.347	234.9	51.5
Pgt	4116924786865697664	17 41 29.97917 −22 54 20.32701	3.7	6.583	1.16	−2.57		−7.0		15.349	0	−22.9	13.4
J430031	2043-02-06 17:13:52.23	17 41 30.48830 −22 54 29.20387	3.5	8.625	2.01	31.77	5.869	−33.4	9.099	14.790	13.710	230.8	51.5
Pgt	4116924786865687424	17 41 30.51019 −22 54 20.58433	2.1	36.713	1.15	−2.57		−35.2	0.523	15.293	0	−22.9	13.5
J430032	2043-02-06 17:14:29.38	17 41 30.51789 −22 54 25.46116	3.9	4.870	2.01	31.77	5.869	−18.1	8.564	13.982	12.595	230.6	51.5
Pgt	4116924791266441984	17 41 30.53025 −22 54 20.59405	2.4	20.730	1.15	−2.57		−20.0		14.485	0	−22.9	13.5
J430033	2043-02-06 17:56:45.52	17 41 31.88767 −22 54 25.85449	3.5	4.600	2.01	31.76	5.869	−17.1	9.364	14.592	13.266	220.1	51.5
Pgt	4116924894345643392	17 41 31.89932 −22 54 21.25695	2.1	19.581	1.15	−2.57		−19.0	0.582	15.094	0	−22.9	13.9
J430034	2043-02-06 20:49:09.48	17 41 37.49746 −22 54 16.92358	2.9	7.032	182.00	31.72	5.867	28.6	9.280	14.051	12.839	176.9	51.6
Pgt	4116924722546887680	17 41 37.47975 −22 54 23.95102	1.7	29.922	1.14	−2.57		26.8	0.447	14.552	0	−22.9	15.3
J430035	2043-02-06 21:30:07.35	17 41 38.79711 −22 54 27.67679	7.7	3.090	1.99	31.71	5.867	−11.1	8.442	14.826	13.276	166.6	51.6
Pgt	4116924722495879296	17 41 38.80489 −22 54 24.58890	4.6	13.147	1.14	−2.57		−13.0		15.327	0	−22.9	15.6
J430036	2043-02-07 00:24:35.85	17 41 44.47726 −22 54 14.54231	6.6	12.761	181.98	31.67	5.865	53.8	8.649	14.682	13.201	122.9	51.7
Pgt	4116925031784437248	17 41 44.44531 −22 54 27.29598	3.8	54.285	1.13	−2.57		52.1		15.181	0	−22.9	17.1
J430037	2043-02-07 01:35:46.33	17 41 46.71324 −22 54 40.88885	5.1	12.501	1.98	31.65	5.865	−50.8	8.937	14.409	13.032	105.1	51.8
Pgt	4116924275870140928	17 41 46.74455 −22 54 28.39577	2.8	53.170	1.13	−2.57		−52.5	0.764	14.907	0	−22.9	17.7
J430038	2043-02-07 08:53:14.09	17 42 00.89638 −22 54 18.29711	3.8	16.811	181.95	31.55	5.861	87.6	9.742	14.758	13.482	355.4	52.0
Pgt	4116924104072544896	17 42 00.85490 −22 54 35.09804	2.1	71.455	1.10	−2.57		86.9		15.253	0	−22.9	21.4
J430039	2043-02-07 11:45:12.17	17 42 06.42204 −22 54 25.31105	8.6	12.402	181.95	31.51	5.859	51.9	7.058	13.815	12.231	312.4	52.1
Pgt	4116878646125866368	17 42 06.39157 −22 54 37.70581	4.8	52.701	1.09	−2.57		50.3		14.308	0	−22.9	22.9
J430040	2043-02-07 15:11:15.40	17 42 13.02017 −22 54 39.98168	2.9	0.829	181.94	31.46	5.857	4.2	8.857	13.795	12.554	260.7	52.2
Pgt	4116878611766036608	17 42 13.01815 −22 54 40.81056	1.7	3.523	1.08	−2.57		2.2	0.600	14.287	0	−22.9	24.7

Table 7 *continued on next page*

Table 7 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430041	2043-02-07 18:35:23.84	17 42 19.60537 −22 54 31.42065	8.9	12.452	181.92	31.41	5.855	52.1	7.765	14.555	12.985	209.6	52.3
Pgt	4116878538657816448	17 42 19.57513 −22 54 43.86515	5.3	52.879	1.07	−2.57		50.5	2.142	15.045	0	−22.9	26.5
J430042	2043-02-08 04:05:03.73	17 42 37.81453 −22 54 58.86462	2.7	6.591	1.90	31.27	5.850	−24.9	9.301	13.237	12.160	66.9	52.7
Pgt	4116877958931124992	17 42 37.83031 −22 54 52.27716	1.5	27.966	1.03	−2.57		−26.8	0.355	13.722	0	−22.9	31.5
J430043	2043-02-08 04:57:45.36	17 42 39.53788 −22 54 43.78095	5.1	9.271	181.89	31.26	5.850	37.8	9.550	14.952	13.599	53.7	52.7
Pgt	4116877954553172480	17 42 39.51575 −22 54 53.04695	3.1	39.334	1.03	−2.57		36.0	0.634	15.437	0	−22.9	32.0
J430044	2043-02-08 04:59:34.01	17 42 39.55070 −22 55 02.66720	3.1	9.599	1.89	31.26	5.850	−37.4	9.003	14.215	12.925	53.2	52.7
Pgt	4116877958930680448	17 42 39.57366 −22 54 53.07338	1.8	40.726	1.03	−2.57		−39.2	0.649	14.700	0	−22.9	32.0
J430045	2043-02-08 05:14:47.33	17 42 40.08426 −22 54 43.31562	5.7	9.985	181.89	31.26	5.850	40.8	9.429	14.905	13.526	49.4	52.7
Pgt	4116877954553172864	17 42 40.06043 −22 54 53.29548	3.3	42.363	1.03	−2.57		39.1	0.640	15.390	0	−22.9	32.2
J430046	2043-02-08 06:42:13.81	17 42 42.89688 −22 54 37.30592	6.8	17.272	181.88	31.24	5.849		8.555	14.747	13.240	27.5	52.8
Pt	4116877924570926080	17 42 42.85580 −22 54 54.56903	4.3	73.270	1.02	−2.57				15.231	0	−22.9	32.9
J430047	2043-02-08 09:19:36.32	17 42 47.88989 −22 54 53.98598	5.2	2.867	181.88	31.20	5.847	12.1	8.373	14.125	12.670	348.0	52.9
Pgt	4116880845150507648	17 42 47.88310 −22 54 56.85139	3.2	12.159	1.02	−2.57		10.2		14.608	0	−22.9	34.4
J430048	2043-02-08 12:17:25.44	17 42 53.58802 −22 54 46.51700	6.0	12.905	181.87	31.15	5.846	54.3	9.201	14.963	13.532	303.5	53.0
Pgt	4116880806400516224	17 42 53.55761 −22 54 59.41518	3.6	54.715	1.01	−2.57		52.6	0.646	15.444	0	−22.9	36.0
J430049	2043-02-08 17:43:50.53	17 43 03.98632 −22 54 51.91873	7.7	12.168	181.85	31.07	5.843	50.6	8.904	14.764	13.310	221.7	53.2
Pgt	4116880668969378304	17 43 03.95792 −22 55 04.07998	4.1	51.562	0.99	−2.57		48.9	0.831	15.242	0	−22.9	38.9
J430050	2043-02-08 18:02:08.64	17 43 04.54103 −22 55 04.08127	14.1	0.259	181.86	31.07	5.843	2.0	8.128	14.755	13.146	217.1	53.2
Pgt	4116880668993823616	17 43 04.54042 −22 55 04.33994	9.1	1.097	0.99	−2.57		0.0	1.477	15.233	0	−22.9	39.1
J430051	2043-02-08 19:20:58.29	17 43 07.01886 −22 55 18.16802	4.9	12.717	1.85	31.05	5.842	−51.6	8.938	14.357	12.999	197.4	53.2
Pgt	4116879917437304960	17 43 07.04855 −22 55 05.45770	2.8	53.882	0.98	−2.57		−53.3	0.780	14.835	0	−22.9	39.8
J430052	2043-02-08 23:44:27.53	17 43 15.46110 −22 54 52.72980	4.5	16.450	181.83	30.99	5.840	79.1	9.926	14.875	13.610	131.4	53.4
Pg	4116880261034612992	17 43 15.42312 −22 55 09.17131	2.8	69.670	0.97	−2.57		77.6	0.371	15.350	0	−22.9	42.3
J430053	2043-02-09 06:35:02.43	17 43 28.45367 −22 55 11.12514	9.4	3.766	181.81	30.89	5.836	15.6	8.501	14.956	13.429	28.5	53.6
Pgt	4116868368186197504	17 43 28.44507 −22 55 14.88913	5.8	15.939	0.94	−2.57		13.7		15.428	0	−22.9	46.1
J430054	2043-02-09 16:23:55.60	17 43 47.02428 −22 55 40.14228	4.9	17.206	1.78	30.74	5.830		8.624	14.245	12.857	240.9	53.9
Pt	4116868883571167360	17 43 47.06300 −22 55 22.94451	2.7	72.759	0.91	−2.56			0.892	14.712	0	−22.9	51.6
J430055	2043-02-09 17:10:54.51	17 43 48.55013 −22 55 21.45302	7.6	2.128	181.78	30.73	5.830	9.2	8.944	14.967	13.473	229.2	54.0
Pgt	4116868917938842880	17 43 48.54536 −22 55 23.57982	4.8	8.997	0.91	−2.56		7.3		15.433	0	−22.9	52.0
J430056	2043-02-09 23:37:49.48	17 44 00.76156 −22 55 17.38370	9.5	11.392	181.75	30.63	5.826	46.9	7.350	14.327	12.691	132.2	54.2
Pgt	4116869059755941888	17 44 00.73634 −22 55 28.77073	5.7	48.142	0.88	−2.56		45.1	1.428	14.790	0	−22.9	55.7
J430057	2043-02-10 00:11:36.68	17 44 01.76786 −22 55 43.45701	7.6	14.243	1.76	30.63	5.826	−59.7	8.995	14.986	13.526	123.8	54.2
Pgt	4116868991036423552	17 44 01.79946 −22 55 29.22053	4.6	60.185	0.88	−2.56		−61.3		15.449	0	−22.9	56.0
J430058	2043-02-10 02:56:49.95	17 44 07.01738 −22 55 21.20615	2.3	10.211	181.74	30.58	5.825	41.6	9.049	12.453	11.487	82.4	54.3
Pgt	4116869089729618048	17 44 06.99490 −22 55 31.41209	1.4	43.134	0.87	−2.56		39.8	0.383	12.915	0	−22.9	57.5
J430059*	2043-02-10 03:25:20.81	17 44 07.87044 −22 55 41.10470	5.4	9.320	1.75	30.58	5.824	−36.0	8.683	10.427	9.838	75.2	54.3
Pgt	4116866139178070528	17 44 07.89098 −22 55 31.78897	3.3	39.370	0.87	−2.56		−37.8	0.361	10.888	0	−22.9	57.8
J430060	2043-02-10 05:43:32.76	17 44 12.25414 −22 55 23.32878	3.8	10.286	181.73	30.54	5.823	41.9	9.498	14.456	13.203	40.6	54.4
Pgt	4116866173537769088	17 44 12.23162 −22 55 33.60993	2.2	43.441	0.86	−2.56		40.2	0.458	14.916	0	−22.9	59.1
J430061	2043-02-10 06:43:12.21	17 44 14.13852 −22 55 18.67157	6.8	15.729	181.73	30.53	5.823	71.3	8.881	14.887	13.412	25.6	54.4
Pgt	4116889568169933184	17 44 14.10417 −22 55 34.39313	4.1	66.421	0.86	−2.56		69.8		15.346	0	−22.9	59.7
J430062	2043-02-10 09:11:19.18	17 44 18.75182 −22 55 35.54375	9.4	0.787	181.72	30.49	5.821	4.0	8.387	14.812	13.268	348.5	54.5
Pgt	4116889361983163904	17 44 18.75011 −22 55 36.33014	5.7	3.322	0.85	−2.56		2.0		15.270	0	−22.9	61.1
J430063	2043-02-10 18:00:07.32	17 44 35.32599 −22 55 30.93592	6.8	12.228	181.69	30.36	5.816	50.7	7.995	14.085	12.560	216.0	54.8
Pgt	4116889018377840128	17 44 35.29982 −22 55 43.15894	3.9	51.584	0.82	−2.56		49.0	0.818	14.538	0	−22.9	66.2
J430064	2043-02-10 23:49:31.08	17 44 46.22421 −22 55 37.45797	8.0	10.144	181.68	30.27	5.813	41.2	8.645	14.722	13.222	128.5	55.0
Pgt	4116888885331525632	17 44 46.20273 −22 55 47.59721	4.8	42.766	0.80	−2.56		39.5		15.172	0	−22.9	69.5
J430065	2043-02-11 01:49:37.73	17 44 49.93405 −22 55 54.24729	6.5	5.140	1.67	30.24	5.812	−19.0	9.032	14.837	13.379	98.4	55.1
Pgt	4068850466412091520	17 44 49.94492 −22 55 49.10949	3.8	21.666	0.80	−2.56		−20.9		15.286	0	−22.9	70.7

Table 7 *continued on next page*

Table 7 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430066	2043-02-11 03:29:22.62	17 44 53.07533 −22 55 38.51054	3.7	11.855	181.66	30.21	5.811	48.9	8.944	14.283	12.941	73.4	55.2
Pgt	4068850496394510976	17 44 53.05040 −22 55 50.36018	2.1	49.962	0.79	−2.56		47.1	0.731	14.731	0	−22.9	71.7
J430067	2043-02-11 05:03:05.15	17 44 56.00293 −22 55 33.90215	4.1	17.636	181.66	30.19	5.810		9.423	14.349	13.009	49.9	55.2
P	4068850432002463488	17 44 55.96598 −22 55 51.53084	2.3	74.317	0.79	−2.56			0.441	14.796	0	−22.9	72.6
J430068	2043-02-11 06:42:03.33	17 44 59.07779 −22 55 36.24049	3.5	16.529	181.65	30.17	5.809	79.0	9.778	14.580	13.366	25.1	55.3
Pgt	4068851909521007232	17 44 59.04326 −22 55 52.76271	2.0	69.641	0.78	−2.56		77.5	0.358	15.027	0	−22.9	73.5
J430069	2043-02-11 09:19:13.74	17 45 03.90011 −22 56 07.16757	3.3	12.463	1.65	30.13	5.808	−50.0	9.109	14.253	12.963	345.7	55.4
Pgt	4068851630248892928	17 45 03.92611 −22 55 54.70953	2.0	52.497	0.77	−2.56		−51.7	0.547	14.698	0	−22.9	75.0
J430070	2043-02-11 13:07:29.29	17 45 10.99774 −22 56 02.59361	11.2	5.080	1.64	30.07	5.806	−18.7	7.830	14.685	13.103	288.6	55.5
Pgt	4068851016167627904	17 45 11.00825 −22 55 57.51607	6.8	21.388	0.76	−2.56		−20.7		15.128	0	−22.9	77.3
J430071	2043-02-11 14:59:08.71	17 45 14.48738 −22 55 49.79540	3.8	9.088	181.63	30.04	5.805	36.7	8.999	14.397	13.066	260.6	55.6
Pgt	4068851050527331840	17 45 14.46867 −22 55 58.88000	2.2	38.261	0.75	−2.56		34.9	0.715	14.839	0	−22.9	78.3
J430072	2043-02-11 15:39:03.83	17 45 15.70193 −22 56 00.94973	9.4	1.584	1.63	30.03	5.804	−5.1	8.088	14.566	13.037	250.6	55.6
Pgt	4068850981807825408	17 45 15.70519 −22 55 59.36620	5.7	6.669	0.75	−2.56		−7.1		15.007	0	−22.9	78.7
J430073	2043-02-12 01:25:01.63	17 45 33.83868 −22 55 55.96743	6.5	10.454	181.60	29.88	5.799	42.5	9.148	14.882	13.427	103.8	55.9
Pgt	4068848267388236544	17 45 33.81759 −22 56 06.41694	3.9	43.964	0.72	−2.56		40.7		15.318	0	−23.0	84.4
J430074	2043-02-12 09:45:40.80	17 45 49.22254 −22 56 18.84517	5.4	6.534	1.57	29.75	5.794	−24.4	9.493	14.948	13.531	338.3	56.2
Pgt	4068853868027958016	17 45 49.23553 −22 56 12.31408	3.3	27.455	0.69	−2.56		−26.3		15.379	0	−23.0	89.3
J430075	2043-02-12 15:04:57.41	17 45 59.03241 −22 56 19.80970	3.4	3.797	1.56	29.67	5.791	−13.6	8.978	13.848	12.588	258.3	56.4
Pgt	4068853176436340608	17 45 59.03988 −22 56 16.01420	2.0	15.947	0.67	−2.56		−15.6		14.277	0	−23.0	92.5
J430076	2043-02-13 05:58:24.75	17 46 26.38789 −22 56 11.54015	3.1	14.586	181.51	29.44	5.783	62.7	8.744	13.766	12.470	34.5	56.9
Pgt	4068842902893328384	17 46 26.36010 −22 56 26.12074	1.9	61.171	0.62	−2.55		61.1		14.186	0	−23.0	101.2
J430077	2043-02-13 10:54:37.86	17 46 35.35654 −22 56 41.93512	3.1	12.548	1.50	29.37	5.780	−50.1	9.513	14.077	12.880	320.2	57.1
Pgt	4068842048272332416	17 46 35.38030 −22 56 29.39157	1.9	52.599	0.61	−2.55		−51.8		14.494	0	−23.0	104.1
J430078	2043-02-13 11:27:45.53	17 46 36.40890 −22 56 18.62519	3.2	11.133	181.49	29.36	5.779	45.3	9.327	14.233	12.953	311.9	57.1
Pgt	4068842215679796736	17 46 36.38791 −22 56 29.75490	2.0	46.668	0.61	−2.55		43.5	0.485	14.649	0	−23.0	104.5
J430079	2043-02-13 13:48:34.55	17 46 40.64630 −22 56 43.01382	3.1	11.724	1.49	29.32	5.778	−46.2	9.652	14.182	13.011	276.7	57.2
Pgt	4068841945194267520	17 46 40.66836 −22 56 31.29382	1.8	49.131	0.60	−2.55		−48.0	0.362	14.598	0	−23.0	105.8
J430080	2043-02-13 14:12:56.17	17 46 41.37934 −22 56 47.00411	3.6	15.450	1.49	29.32	5.778	−66.7	9.703	14.651	13.378	270.6	57.2
Pgt	4068841945194257664	17 46 41.40842 −22 56 31.55913	2.1	64.744	0.60	−2.55		−68.3	0.497	15.067	0	−23.0	106.1
J430081	2043-02-13 19:30:46.79	17 46 51.03771 −22 56 42.98803	4.9	7.994	1.47	29.23	5.775	−30.2	9.203	14.663	13.267	190.9	57.4
Pgt	4068839333854052352	17 46 51.05258 −22 56 34.99642	3.0	33.482	0.58	−2.55		−32.1		15.075	0	−23.0	109.2
J430082	2043-02-13 22:28:05.77	17 46 56.42647 −22 56 35.14925	5.1	1.746	181.46	29.19	5.773	7.7	8.968	14.745	13.298	146.5	57.5
Pgt	4068839363885196032	17 46 56.42325 −22 56 36.89433	3.1	7.309	0.57	−2.55		5.7		15.156	0	−23.0	110.9
J430083	2043-02-13 23:40:52.37	17 46 58.61741 −22 56 42.09248	3.4	4.425	1.46	29.17	5.772	−16.0	9.751	14.321	13.142	128.3	57.6
Pgt	4068839402573450496	17 46 58.62557 −22 56 37.66924	1.9	18.524	0.57	−2.55		−18.0	0.327	14.731	0	−23.0	111.6
J430084	2043-02-14 00:23:48.14	17 46 59.91690 −22 56 42.05096	3.7	3.927	1.46	29.16	5.772	−14.1	9.877	14.942	13.635	117.5	57.6
Pgt	4068839402573434112	17 46 59.92412 −22 56 38.12523	2.2	16.439	0.56	−2.55		−16.1		15.351	0	−23.0	112.1
J430085	2043-02-14 04:16:57.42	17 47 06.98175 −22 56 33.94873	2.3	6.641	181.44	29.10	5.770	26.7	9.297	13.264	12.187	59.1	57.7
Pgt	4068839230774678784	17 47 06.96965 −22 56 40.58750	1.4	27.790	0.55	−2.55		24.7	0.368	13.671	0	−23.0	114.3
J430086	2043-02-14 04:56:10.36	17 47 08.12904 −22 56 54.39991	3.2	13.405	1.44	29.09	5.769	−54.3	9.520	14.536	13.232	49.3	57.7
Pgt	4068839162055163648	17 47 08.15350 −22 56 40.99927	1.9	56.091	0.55	−2.55		−56.0	0.503	14.943	0	−23.0	114.7
J430087	2043-02-14 05:19:33.32	17 47 08.82607 −22 56 59.40890	10.3	18.170	1.44	29.08	5.769		6.956	14.468	12.734	43.4	57.8
Pt	4068839157682150784	17 47 08.85923 −22 56 41.24447	6.4	76.028	0.55	−2.55				14.874	0	−23.0	115.0
J430088	2043-02-14 05:34:52.20	17 47 09.34605 −22 56 27.81071	2.6	13.599	181.44	29.08	5.769	57.0	9.809	13.883	12.789	39.6	57.8
Pgt	4068932994242328960	17 47 09.32138 −22 56 41.40494	1.5	56.898	0.55	−2.55		55.3	0.283	14.289	0	−23.0	115.1
J430089	2043-02-14 05:50:31.68	17 47 09.76163 −22 56 59.23173	3.7	17.668	1.44	29.07	5.769		9.227	14.419	13.074	35.6	57.8
Pt	4068932994099027840	17 47 09.79384 −22 56 41.56890	2.3	73.925	0.55	−2.55				14.825	0	−23.0	115.3
J430090	2043-02-14 06:05:18.98	17 47 10.22834 −22 56 48.13480	4.5	6.413	1.44	29.07	5.769	−23.8	8.205	13.648	12.241	31.9	57.8
Pgt	4068932998469800832	17 47 10.24001 −22 56 41.72365	2.9	26.832	0.54	−2.55		−25.8	1.128	14.054	0	−23.0	115.4

Table 7 *continued on next page*

Table 7 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430091	2043-02-14 09:09:08.69	17 47 15.81448 −22 56 25.68582	7.5	17.959	181.42	29.02	5.767		7.818	14.420	12.854	345.9	57.9
P	4068932276915259648	17 47 15.78215 −22 56 43.63926	4.9	75.116	0.53	−2.55				14.824	0	−23.0	117.2
J430092	2043-02-14 10:47:30.00	17 47 18.71464 −22 57 01.12312	4.0	16.470	1.43	28.99	5.766	−75.3	9.731	14.798	13.481	321.2	58.0
Pgt	4068932203825004800	17 47 18.74435 −22 56 44.65809	2.3	68.877	0.53	−2.55		−76.9		15.201	0	−23.0	118.2
J430093	2043-02-14 12:04:40.94	17 47 21.06195 −22 56 48.48123	3.6	3.028	1.42	28.97	5.765	−10.6	9.934	14.841	13.568	301.9	58.0
Pgt	4068932311274935040	17 47 21.06738 −22 56 45.45463	2.2	12.659	0.53	−2.55		−12.6	0.371	15.244	0	−23.0	118.9
J430094	2043-02-14 12:19:48.34	17 47 21.51156 −22 56 51.65351	2.5	6.045	1.42	28.97	5.765	−22.3	9.798	13.354	12.345	298.1	58.0
Pgt	4068932306904290944	17 47 21.52241 −22 56 45.61040	1.5	25.276	0.52	−2.55		−24.3	0.289	13.757	0	−23.0	119.1
J430095	2043-02-14 12:47:29.12	17 47 22.32531 −22 57 02.47645	4.0	16.586	1.42	28.96	5.765	−76.6	9.299	14.480	13.118	291.2	58.0
Pgt	4068932105116481152	17 47 22.35510 −22 56 45.89524	2.4	69.349	0.52	−2.55		−78.2	0.548	14.882	0	−23.0	119.3
J430096	2043-02-14 15:24:42.78	17 47 27.11013 −22 56 31.57429	3.2	15.937	181.41	28.92	5.763	71.7	9.174	14.201	12.921	251.8	58.1
Pgt	4068932135147012096	17 47 27.08181 −22 56 47.50688	1.9	66.618	0.51	−2.55		70.1	0.603	14.602	0	−23.0	120.9
J430097	2043-02-14 16:56:39.97	17 47 29.86052 −22 56 38.94375	3.2	9.504	181.40	28.90	5.762	38.2	9.622	14.478	13.216	228.7	58.2
Pgt	4068932444343238400	17 47 29.84367 −22 56 48.44444	2.0	39.719	0.51	−2.55		36.3	0.462	14.877	0	−23.0	121.8
J430098	2043-02-14 17:16:13.99	17 47 30.40283 −22 57 04.55124	2.9	15.913	1.41	28.89	5.762	−69.9	9.723	14.269	13.101	223.8	58.2
Pgt	4068932070756673920	17 47 30.43114 −22 56 48.64347	1.8	66.502	0.51	−2.55		−71.5	0.323	14.669	0	−23.0	122.0
J430099	2043-02-14 17:51:49.15	17 47 31.47148 −22 57 04.67665	9.6	15.676	1.41	28.88	5.762	−68.0	7.878	14.446	12.893	214.9	58.2
Pgt	4068932448713789056	17 47 31.49933 −22 56 49.00502	5.3	65.511	0.51	−2.55		−69.7		14.845	0	−23.0	122.3
J430100	2043-02-14 19:16:53.00	17 47 34.07395 −22 56 37.19682	2.7	12.674	181.40	28.86	5.761	52.3	8.930	13.973	12.677	193.6	58.3
Pgt	4068885508966980608	17 47 34.05160 −22 56 49.86703	1.7	52.957	0.50	−2.55		50.5		14.371	0	−23.0	123.1
J430101	2043-02-14 21:45:02.16	17 47 38.49379 −22 56 50.91918	2.6	0.442	181.39	28.82	5.760	2.7	8.211	12.188	10.993	156.5	58.3
Pgt	4068885478935052288	17 47 38.49301 −22 56 51.36086	1.5	1.846	0.49	−2.55		0.7	0.687	12.585	0	−23.0	124.6
J430102	2043-02-14 22:18:14.53	17 47 39.47512 −22 56 58.92411	6.7	7.232	1.39	28.81	5.759	−27.0	8.075	14.307	12.788	148.2	58.4
Pgt	4068885474623185664	17 47 39.48782 −22 56 51.69438	4.3	30.208	0.49	−2.55		−29.0		14.703	0	−23.0	124.9
J430103*	2043-02-14 22:38:30.78	17 47 40.06651 −22 57 08.08742	14.8	16.194	1.39	28.81	5.759	−72.3	8.972	14.746	13.266	143.1	58.4
Pgt	4068885474725035904	17 47 40.09500 −22 56 51.89774	9.7	67.644	0.49	−2.55		−73.9		15.142	0	−23.0	125.1
J430104	2043-02-15 01:03:45.35	17 47 44.44454 −22 56 52.36307	6.0	0.987	181.38	28.77	5.758	4.8	8.933	14.766	13.300	106.7	58.5
Pgt	4068885375855727744	17 47 44.44282 −22 56 53.34966	3.6	4.121	0.48	−2.55		2.7		15.161	0	−23.0	126.5
J430105	2043-02-15 02:28:43.28	17 47 46.97866 −22 56 57.32285	5.2	3.129	1.38	28.75	5.757	−11.0	8.005	13.751	12.293	85.4	58.5
Pgt	4068885405887869440	17 47 46.98411 −22 56 54.19479	3.3	13.065	0.48	−2.55		−13.0	1.353	14.145	0	−23.0	127.3
J430106	2043-02-15 22:54:01.98	17 48 23.45098 −22 57 08.73636	9.1	2.699	1.32	28.43	5.745	−9.3	7.089	14.154	12.545	138.4	59.2
Pgt	4068883275557518208	17 48 23.45547 −22 57 06.03776	5.8	11.247	0.41	−2.55		−11.3		14.536	0	−23.0	139.2
J430107	2043-02-16 07:00:22.09	17 48 37.83369 −22 57 13.07660	3.7	2.516	1.29	28.30	5.740	−8.6	9.241	14.242	12.983	16.5	59.5
Pgt	4068888257899375488	17 48 37.83780 −22 57 10.56146	2.2	10.474	0.39	−2.55		−10.6	0.475	14.618	0	−23.0	143.9
J430108	2043-02-16 08:36:10.11	17 48 40.64652 −22 57 22.51296	9.4	11.075	1.29	28.27	5.739	−42.9	7.791	14.236	12.705	352.5	59.6
Pgt	4068888223359798784	17 48 40.66458 −22 57 11.44087	5.6	46.101	0.38	−2.55		−44.7		14.612	0	−23.0	144.8
J430109*	2043-02-16 16:31:51.54	17 48 54.67041 −22 57 15.55029	5.2	0.201	181.26	28.15	5.735	1.8	9.572	14.581	13.321	233.3	59.8
Pgt	4068888090276989568	17 48 54.67009 −22 57 15.75105	3.1	0.835	0.36	−2.55		−0.3	0.461	14.952	0	−23.0	149.3
J430110	2043-02-16 17:31:17.22	17 48 56.43338 −22 57 05.49631	7.7	10.789	181.26	28.13	5.734	43.4	8.814	14.878	13.395	218.4	59.9
Pgt	4068876717198670336	17 48 56.41621 −22 57 16.28293	4.8	44.871	0.35	−2.55		41.6		15.248	0	−23.0	149.9
J430111***	2043-02-17 00:44:03.85	17 49 09.10959 −22 57 19.16405	22.2	0.949	181.24	28.02	5.730	4.6	9.476	14.604	13.288	110.0	60.1
Pgt	4068876575408509184	17 49 09.10810 −22 57 20.11238	14.4	3.942	0.33	−2.55		2.6	0.475	14.970	0	−23.0	153.9
J430112	2043-02-17 03:20:15.98	17 49 13.70390 −22 57 05.17022	3.9	16.309	181.23	27.97	5.728	74.2	9.342	14.606	13.309	70.9	60.2
Pgt	4068876545399619968	17 49 13.67856 −22 57 21.47562	2.5	67.759	0.32	−2.54		72.5	0.471	14.970	0	−23.0	155.4
J430113	2043-02-17 05:21:18.48	17 49 17.20037 −22 57 32.84012	5.9	10.317	1.23	27.94	5.727	−39.5	8.376	14.151	12.711	40.5	60.3
Pgt	4068875785134495232	17 49 17.21640 −22 57 22.52512	3.7	42.856	0.32	−2.54		−41.4	0.958	14.514	0	−23.0	156.5
J430114	2043-02-17 05:48:07.40	17 49 18.00344 −22 57 20.35550	6.3	2.402	181.23	27.93	5.727	10.2	7.611	13.516	12.067	33.8	60.3
Pgt	4068877266954015104	17 49 17.99972 −22 57 22.75681	3.9	9.976	0.32	−2.54		8.1	1.808	13.879	0	−23.0	156.8
J430115	2043-02-17 05:55:42.19	17 49 18.20682 −22 57 32.02739	4.1	9.207	1.23	27.93	5.727	−34.8	7.790	13.000	11.672	31.9	60.3
Pgt	4068877262603244800	17 49 18.22110 −22 57 22.82225	2.6	38.243	0.31	−2.54		−36.7	1.009	13.362	0	−23.0	156.9

Table 7 *continued on next page*

Table 7 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430116	2043-02-17 14:12:24.86	17 49 32.71504 −22 57 17.09402	4.6	9.968	181.20	27.80	5.722	39.9	7.925	13.544	12.167	267.5	60.6
Pgt	4068877060795299712	17 49 32.69993 −22 57 27.05950	3.4	41.366	0.29	−2.54		38.0	1.055	13.901	0	−23.0	161.4
J430117	2043-02-17 16:30:59.49	17 49 36.75460 −22 57 11.33265	2.7	16.895	181.19	27.76	5.721	80.5	9.329	13.099	12.047	232.7	60.7
Pgt	4068877095154972928	17 49 36.72918 −22 57 28.22381	1.7	70.097	0.28	−2.54		79.0	0.342	13.455	0	−23.0	162.7
J430118	2043-02-17 20:35:20.77	17 49 43.81453 −22 57 35.97512	6.2	5.718	1.18	27.69	5.718	−20.9	8.938	14.853	13.437	171.5	60.8
Pgt	4068874449454928768	17 49 43.82309 −22 57 30.25805	3.6	23.715	0.27	−2.54		−22.9		15.206	0	−23.0	164.9
J430119	2043-02-18 17:05:25.61	17 50 19.30469 −22 57 53.19946	2.4	13.063	1.13	27.36	5.706	−51.8	8.156	9.671	9.142	223.3	61.6
Pgt	4068709213540805120	17 50 19.32332 −22 57 40.13893	1.4	54.061	0.21	−2.54		−53.6	0.431	10.011	0	−23.0	174.0
J430120	2043-02-18 20:12:35.60	17 50 24.69600 −22 57 40.37797	2.2	1.213	181.12	27.31	5.704	5.6	9.722	12.650	12.170	176.4	61.7
Pgt	4068709518358349568	17 50 24.69429 −22 57 41.59035	1.3	5.017	0.20	−2.54		3.5	0.249	12.988	0	−23.0	174.4
J430121	2043-02-19 04:37:57.51	17 50 39.15866 −22 57 43.24874	8.9	2.193	181.09	27.18	5.699	9.4	8.021	14.809	13.227	49.8	62.0
Pgt	4068708663746825088	17 50 39.15563 −22 57 45.44123	5.2	9.064	0.17	−2.54		7.3		15.142	0	−23.0	173.1
J430122*	2043-02-19 10:30:27.19	17 50 49.20728 −22 57 47.81692	5.4	0.252	181.07	27.08	5.696	2.0	7.141	10.173	9.275	321.4	62.2
Pgt	4068709900735278592	17 50 49.20693 −22 57 48.06883	3.4	1.041	0.15	−2.54		−0.1	0.965	10.502	0	−23.0	170.8
J430123	2043-02-19 20:44:24.98	17 51 06.62519 −22 58 06.34189	3.5	13.812	1.05	26.91	5.690	−55.4	7.759	12.691	11.429	167.6	62.5
Pgt	4068707319342612096	17 51 06.64354 −22 57 52.53230	2.2	56.994	0.12	−2.54		−57.2	0.961	13.013	0	−23.0	165.7
J430124	2043-02-20 00:22:53.94	17 51 12.84043 −22 57 43.72186	6.7	10.366	181.03	26.85	5.687	41.3	8.863	14.848	13.388	112.9	62.7
Pgt	4068707151955936000	17 51 12.82687 −22 57 54.08632	4.4	42.759	0.11	−2.54		39.4	0.873	15.168	0	−23.0	163.9
J430125	2043-02-20 00:38:18.07	17 51 13.28394 −22 57 37.64762	2.2	16.550	181.03	26.85	5.687	75.3	9.206	12.726	11.735	109.0	62.7
Pgt	4068707147536402304	17 51 13.26234 −22 57 54.19520	1.4	68.265	0.11	−2.54		73.7	0.340	13.046	0	−23.0	163.7
J430126	2043-02-20 05:00:29.05	17 51 20.68749 −22 57 39.82726	3.6	16.210	181.02	26.78	5.685	72.2	9.639	14.823	13.537	43.3	62.8
Pgt	4068707220675316736	17 51 20.66659 −22 57 56.03496	2.3	66.832	0.10	−2.54		70.5	0.454	15.140	0	−23.0	161.4
J430127	2043-02-20 09:34:50.45	17 51 28.39695 −22 57 58.15734	4.7	0.225	1.02	26.70	5.682	0.2	9.241	14.850	13.475	334.6	63.0
Pgt	4068712271558830848	17 51 28.39723 −22 57 57.93270	2.7	0.926	0.08	−2.54		−1.9	0.644	15.164	0	−23.0	159.0
J430128	2043-02-20 10:59:52.15	17 51 30.77236 −22 58 11.91949	3.2	13.406	1.01	26.68	5.681	−53.2	9.684	14.468	13.250	313.3	63.1
Pgt	4068712060981913984	17 51 30.78950 −22 57 58.51516	2.0	55.237	0.08	−2.54		−55.0	0.364	14.781	0	−23.0	158.2
J430129	2043-02-20 11:59:14.53	17 51 32.47769 −22 57 44.10418	8.6	14.818	181.00	26.66	5.680	62.6	7.253	14.271	12.668	298.4	63.1
Pgt	4068712099759795200	17 51 32.45894 −22 57 58.92029	5.3	61.048	0.07	−2.54		60.9	2.358	14.583	0	−23.0	157.7
J430130	2043-02-20 14:46:47.73	17 51 37.18149 −22 57 47.46135	2.7	12.597	180.99	26.62	5.679	51.1	8.161	12.763	11.571	256.4	63.2
Pgt	4068712134119519872	17 51 37.16566 −22 58 00.05654	1.6	51.882	0.07	−2.54		49.2	0.719	13.073	0	−23.0	156.2
J430131	2043-02-20 16:20:19.69	17 51 39.80005 −22 57 52.80224	8.1	7.885	180.99	26.59	5.678	31.2	8.133	14.829	13.269	233.0	63.2
Pgt	4068712134119511936	17 51 39.79017 −22 58 00.68630	5.2	32.470	0.06	−2.54		29.2		15.139	0	−23.0	155.4
J430132	2043-02-21 00:20:08.76	17 51 53.19970 −22 58 21.02987	2.1	17.166	0.98	26.46	5.673	−81.0	8.316	12.463	11.346	112.7	63.5
Pgt	4068700516114343168	17 51 53.22087 −22 58 03.86628	1.3	70.627	0.04	−2.53		−82.6	0.625	12.767	0	−23.0	151.0
J430133	2043-02-21 04:50:27.07	17 52 00.74787 −22 58 17.71568	3.8	12.097	0.96	26.38	5.670	−46.8	7.988	13.684	12.293	45.0	63.7
Pgt	4068699828919570560	17 52 00.76258 −22 58 05.62061	2.3	49.746	0.02	−2.53		−48.7	1.182	13.985	0	−23.0	148.6
J430134	2043-02-21 05:52:31.81	17 52 02.47055 −22 58 23.79563	3.0	17.778	0.96	26.37	5.669		9.994	14.331	13.166	29.5	63.7
Pt	4068699828919558784	17 52 02.49213 −22 58 06.01976	2.0	73.103	0.02	−2.53			0.307	14.631	0	−23.0	148.1
J430135	2043-02-21 11:55:45.87	17 52 12.57722 −22 58 21.73173	2.7	13.406	0.94	26.26	5.666	−53.0	9.815	13.659	12.597	298.4	63.9
Pgt	4068701070281389568	17 52 12.59320 −22 58 08.32743	1.7	55.089	0.00	−2.53		−54.8	0.267	13.955	0	−23.0	144.8
J430136*	2043-02-22 00:28:19.15	17 52 33.41307 −22 58 18.05420	5.8	5.096	0.91	26.06	5.658	−18.2	9.064	14.587	13.243	109.9	64.4
Pgt	4068698321501797888	17 52 33.41891 −22 58 12.95861	3.4	20.913	−0.04	−2.53		−20.3	0.680	14.875	0	−23.0	138.0
J430137	2043-02-23 08:15:56.83	17 53 25.60097 −22 58 15.45670	3.1	8.352	180.82	25.53	5.639	32.8	9.682	14.494	13.274	351.9	65.5
Pgt	4070151188632165248	17 53 25.59234 −22 58 23.80808	2.1	34.157	−0.13	−2.53		30.8	0.397	14.759	0	−23.0	121.1
J430138**	2043-02-23 19:40:44.78	17 53 44.08905 −22 58 40.05690	11.5	12.659	0.79	25.33	5.632	−49.0	9.581	14.245	13.022	180.3	65.9
Pgt	4070152391222572416	17 53 44.10174 −22 58 27.39894	7.5	51.706	−0.16	−2.53		−50.9	0.370	14.501	0	−23.0	115.1
J430139	2043-02-24 00:41:39.67	17 53 52.18035 −22 58 47.10197	2.3	18.176	0.78	25.25	5.628		9.670	13.664	12.569	104.9	66.1
Pt	4070149466277033600	17 53 52.19831 −22 58 28.92720	1.5	74.200	−0.18	−2.53			0.308	13.917	0	−23.0	112.5
J430140	2043-02-25 16:25:29.64	17 54 55.54157 −22 58 25.51576	2.6	14.474	180.67	24.57	5.604	59.6	8.578	13.047	11.882	227.6	67.5
Pgt	4070142353808130560	17 54 55.52934 −22 58 39.98899	1.8	58.827	−0.29	−2.52		57.7	0.584	13.271	0	−23.0	92.1

Table 7 *continued on next page*

Table 7 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430141	2043-02-25 19:24:03.91	17 55 00.20525 −22 58 52.39021	3.3	11.646	0.67	24.52	5.602	−44.1	7.537	8.351	8.002	182.8	67.6
Pgt	4070142147649607552	17 55 00.21509 −22 58 40.74485	2.3	47.317	−0.30	−2.52		−46.1	0.491	8.572	0	−23.0	90.6
J430142	2043-02-25 19:25:15.31	17 55 00.25433 −22 58 31.15282	4.1	9.598	180.66	24.52	5.602	37.5	9.247	14.594	13.289	182.5	67.6
Pgt	4070143625118451328	17 55 00.24629 −22 58 40.74985	2.8	38.994	−0.30	−2.52		35.5	0.551	14.815	0	−23.0	90.6
J430143	2043-02-26 10:35:25.33	17 55 24.00657 −22 58 38.62517	2.4	5.823	180.62	24.26	5.592	22.8	8.230	12.769	11.606	314.4	68.2
Pgt	4070140876339375360	17 55 24.00198 −22 58 44.44820	1.6	23.620	−0.34	−2.52		20.7	0.703	12.979	0	−23.0	83.0
J430144	2043-02-27 04:31:41.81	17 55 51.81326 −22 58 50.66546	3.2	2.169	0.58	23.95	5.581	−6.9	9.863	14.394	13.199	44.8	68.8
Pgt	4069412763465307136	17 55 51.81486 −22 58 48.49612	2.3	8.782	−0.39	−2.52		−9.2	0.344	14.589	0	−23.0	74.1
J430145	2043-02-27 22:20:22.79	17 56 19.14059 −22 58 39.76904	8.1	12.408	180.53	23.64	5.570	49.1	7.882	14.874	13.334	137.0	69.5
Pgt	4069412243729726080	17 56 19.13224 −22 58 52.17629	5.4	50.123	−0.44	−2.52		47.2		15.055	0	−23.0	65.3
J430146	2043-02-28 15:23:25.63	17 56 45.01024 −22 58 38.78878	3.4	16.602	180.49	23.34	5.559	72.5	9.837	14.408	13.239	240.6	70.1
Pgt	4069410422663603968	17 56 44.99998 −22 58 55.39022	2.3	66.936	−0.49	−2.52		70.7		14.576	0	−23.0	57.0
J430147	2043-03-01 21:59:55.71	17 57 30.73375 −22 59 00.54043	3.1	0.110	0.42	22.80	5.540	0.7	9.712	14.005	12.861	140.4	71.2
Pgt	4069404139170626432	17 57 30.73381 −22 59 00.43068	2.0	0.441	−0.57	−2.51		−1.5	0.326	14.148	0	−23.0	42.2
J430148	2043-03-02 00:02:52.34	17 57 33.77261 −22 58 42.16980	3.8	18.566	180.41	22.76	5.538		7.954	13.585	12.229	109.6	71.3
Pt	4069404173530356608	17 57 33.76301 −22 59 00.73543	2.6	74.574	−0.57	−2.51			1.074	13.726	0	−23.0	41.2
J430149	2043-03-02 13:46:25.41	17 57 53.95594 −22 58 44.90615	2.8	17.768	180.38	22.52	5.529	86.1	9.022	14.104	12.851	263.3	71.8
Pg	4069404688926917120	17 57 53.94749 −22 59 02.67417	1.8	71.257	−0.61	−2.51		84.6	0.474	14.233	0	−23.0	34.6
J430150	2043-03-03 06:02:22.54	17 58 17.63125 −22 58 53.02956	2.6	11.716	180.34	22.23	5.519	45.7	9.575	14.207	13.002	18.7	72.3
Pgt	4069401974507523072	17 58 17.62622 −22 59 04.74523	1.8	46.895	−0.65	−2.51		43.7	0.382	14.321	0	−23.0	26.8
J430151	2043-03-03 23:23:54.17	17 58 42.60177 −22 59 14.48648	17.1	7.795	0.31	21.91	5.508	−27.8	5.166	14.657	12.899	117.7	73.0
Pgt	4069447879086908416	17 58 42.60478 −22 59 06.69112	11.4	31.140	−0.70	−2.51		−30.0		14.756	0	−23.0	18.5
J430152	2043-03-04 07:50:42.28	17 58 54.64834 −22 59 08.39556	2.3	0.853	0.28	21.76	5.502	−2.0	9.713	13.787	12.696	350.7	73.3
Pgt	4069447737337714176	17 58 54.64864 −22 59 07.54245	1.5	3.405	−0.72	−2.51		−4.3	0.305	13.879	0	−23.0	14.6
J430153	2043-03-05 18:18:50.24	17 59 43.04472 −22 59 10.77601	2.6	0.382	0.21	21.14	5.480	−0.2	9.894	13.839	12.760	192.5	74.5
Pgt	4069445199028014080	17 59 43.04482 −22 59 10.39442	1.8	1.517	−0.81	−2.50		−2.5	0.268	13.899	0	−23.0	6.9
J430154	2043-03-06 00:48:26.62	17 59 52.02703 −22 59 02.21550	3.0	8.608	180.19	21.02	5.476	32.9	9.826	14.124	12.996	94.8	74.8
Pgt	4069445027228866304	17 59 52.02499 −22 59 10.82341	2.1	34.185	−0.82	−2.50		30.7	0.296	14.178	0	−23.0	9.2
J430155	2043-03-06 20:07:44.00	18 00 18.48365 −22 59 29.24318	2.2	17.337	0.15	20.66	5.463	−74.7	6.114	9.587	8.614	164.3	75.5
Pgt	4069438945555100928	18 00 18.48704 −22 59 11.90636	1.6	68.692	−0.87	−2.50		−76.5	1.677	9.622	0	−23.0	18.3
J430156*	2043-03-07 03:40:03.59	18 00 28.70306 −22 59 31.22020	4.3	18.968	0.14	20.52	5.458		9.638	14.368	13.298	51.0	75.7
Pt	4069438533238215296	18 00 28.70639 −22 59 12.25181	3.0	75.089	−0.89	−2.50			0.314	14.396	0	−23.0	22.1
J430157	2043-03-07 08:17:34.33	18 00 34.94357 −22 59 30.34468	7.0	17.902	0.13	20.44	5.455	−81.9	4.879	10.823	9.399	341.4	75.9
Pgt	4069438430158980864	18 00 34.94648 −22 59 12.44286	5.0	70.827	−0.90	−2.50		−83.7	5.284	10.846	0	−23.0	24.5
J430158	2043-03-07 19:40:56.56	18 00 50.21390 −22 59 26.00948	1.9	13.162	0.10	20.23	5.448	−49.3	9.654	12.929	11.993	170.2	76.3
Pgt	4069436883970712960	18 00 50.21561 −22 59 12.84734	1.4	52.003	−0.93	−2.50		−51.3	0.248	12.941	0	−23.0	30.5
J430159	2043-03-09 02:36:43.07	18 01 30.98487 −22 59 22.13760	3.1	8.648	0.04	19.65	5.427	−30.6	9.312	14.581	13.324	65.1	77.5
Pgt	4069271952916023424	18 01 30.98527 −22 59 13.48985	2.2	34.039	−1.00	−2.50		−32.8	0.491	14.562	0	−23.0	47.6
J430160	2043-03-12 21:42:29.85	18 03 24.99068 −22 59 20.14805	2.2	8.195	359.86	17.93	5.367	−28.5	8.803	11.440	10.581	135.4	80.8
Pgt	4069262538347389568	18 03 24.98923 −22 59 11.95340	1.7	31.897	−1.21	−2.49		−30.8	0.400	11.321	0	−23.0	101.6
J430161	2043-03-13 03:40:58.90	18 03 32.13867 −22 58 54.86555	1.9	16.832	179.84	17.81	5.363	69.7	7.983	13.045	11.814	45.6	81.0
Pgt	4069263951414253312	18 03 32.14210 −22 59 11.69746	1.3	65.468	−1.22	−2.49		67.8	0.882	12.919	0	−23.0	105.3
J430162	2043-03-14 03:00:51.52	18 03 59.68601 −22 59 09.29461	2.1	1.247	179.80	17.36	5.347	5.6	8.660	13.669	12.441	54.8	81.9
Pgt	4069260412361552640	18 03 59.68632 −22 59 10.54132	1.6	4.835	−1.27	−2.49		3.2	0.625	13.516	0	−23.0	119.5
J430163	2043-03-14 17:31:27.44	18 04 16.50027 −22 59 01.98359	2.4	7.719	179.78	17.08	5.338	28.8	9.910	14.271	13.139	196.6	82.4
Pgt	4069588680984057728	18 04 16.50244 −22 59 09.70302	1.8	29.883	−1.30	−2.49		26.5	0.288	14.100	0	−23.0	128.3
J430164	2043-03-14 18:23:18.58	18 04 17.49876 −22 59 18.58805	2.8	8.938	359.78	17.07	5.337	−31.1	9.951	14.594	13.420	183.6	82.5
Pgt	4069588685301227648	18 04 17.49632 −22 59 09.65040	2.0	34.596	−1.30	−2.49		−33.4	0.324	14.422	0	−23.0	128.8
J430165	2043-03-16 11:27:15.38	18 05 03.73634 −22 59 20.57693	2.4	13.750	359.72	16.28	5.309	−50.3	8.686	13.476	12.282	286.1	84.0
Pgt	4069586417559128704	18 05 03.73149 −22 59 06.82745	1.5	52.947	−1.38	−2.48		−52.5	0.584	13.252	0	−23.0	153.1

Table 7 *continued on next page*

Table 7 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430166	2043-03-17 01:26:45.25	18 05 19.04211 −22 59 22.31552	2.4	16.582	359.70	16.01	5.300	−64.8	8.614	13.498	12.286	75.7	84.5
Pgt	4069585897847190016	18 05 19.03584 −22 59 05.73354	1.5	63.741	−1.41	−2.48		−66.8	0.541	13.257	0	−23.0	161.0
J430167	2043-03-17 12:04:54.67	18 05 30.51885 −22 59 10.61935	2.5	5.757	359.68	15.80	5.293	−19.1	9.816	13.655	12.632	275.8	84.9
Pgt	4069585799084025344	18 05 30.51652 −22 59 04.86195	1.6	22.102	−1.43	−2.48		−21.6	0.267	13.399	0	−23.0	166.8
J430168	2043-03-18 10:40:36.33	18 05 54.45396 −22 58 46.39062	2.4	16.515	179.64	15.36	5.278	66.0	8.320	12.773	11.616	296.1	85.8
Pgt	4069579751769445504	18 05 54.46154 −22 59 02.90542	1.6	63.216	−1.47	−2.48		64.0	0.665	12.487	0	−23.0	174.2
J430169	2043-03-19 00:18:09.98	18 06 08.60508 −22 58 55.78167	2.8	5.883	179.62	15.10	5.268	21.9	9.735	14.230	13.074	91.2	86.3
Pgt	4069579373812285312	18 06 08.60788 −22 59 01.66467	2.0	22.480	−1.50	−2.48		19.5	0.312	13.925	0	−23.0	169.7
J430170	2043-03-20 18:12:58.91	18 06 50.73813 −22 59 12.82856	4.1	15.224	359.58	14.28	5.240	−56.3	9.319	14.899	13.584	180.9	87.9
Pgt	4069577174788910848	18 06 50.73009 −22 58 57.60451	3.0	57.862	−1.57	−2.47		−58.5	0.568	14.534	0	−23.0	147.9
J430171	2043-03-20 20:49:57.14	18 06 53.29424 −22 59 06.75772	4.0	9.417	359.58	14.23	5.238	−32.1	9.562	14.982	13.686	141.6	88.0
Pgt	4069577174788904576	18 06 53.28919 −22 58 57.34075	2.8	35.779	−1.58	−2.47		−34.6	0.453	14.612	0	−23.0	146.5
J430172	2043-03-22 20:52:59.75	18 07 38.80320 −22 58 40.77018	2.1	11.566	179.51	13.30	5.206	42.5	9.816	13.110	12.168	139.0	89.8
Pgt	4066597326511066880	18 07 38.81035 −22 58 52.33571	1.3	43.671	−1.66	−2.47		40.1	0.207	12.666	0	−23.0	121.2
J430173	2043-03-22 22:15:53.67	18 07 40.06651 −22 58 34.40175	2.0	17.787	179.51	13.27	5.205	73.1	9.907	12.727	11.900	118.3	89.8
Pgt	4066598799630406912	18 07 40.07762 −22 58 52.18814	1.2	67.149	−1.66	−2.47		71.0	0.210	12.282	0	−23.0	120.5
J430174	2043-03-23 01:48:22.74	18 07 43.30286 −22 58 32.31811	2.9	19.492	179.50	13.20	5.203		7.209	12.368	11.091	65.0	90.0
P	4066598799631273216	18 07 43.31515 −22 58 51.80911	2.0	73.551	−1.67	−2.47			1.243	11.917	0	−23.0	118.6
J430175	2043-03-23 13:07:25.03	18 07 53.54935 −22 58 38.01022	2.8	12.582	179.49	12.98	5.195	46.4	9.981	13.850	12.817	254.8	90.4
Pgt	4066595917761688320	18 07 53.55741 −22 58 50.59152	1.9	47.407	−1.69	−2.47		44.0	0.233	13.380	0	−23.0	112.8
J430176	2043-03-23 13:51:08.12	18 07 54.20004 −22 58 32.91380	4.6	17.600	179.49	12.97	5.195	71.4	6.951	12.340	11.009	243.9	90.4
Pgt	4066595844693763200	18 07 54.21138 −22 58 50.51285	3.3	66.308	−1.69	−2.47		69.3	1.553	11.870	0	−23.0	112.4
J430177	2043-03-23 21:18:31.52	18 08 00.85394 −22 58 31.25181	2.0	18.455	179.48	12.82	5.190	78.8	8.884	12.232	11.280	131.7	90.7
Pg	4066596055200589440	18 08 00.86602 −22 58 49.70611	1.3	69.463	−1.70	−2.47		76.7	0.400	11.749	0	−23.0	108.6
J430178*	2043-03-24 03:03:53.82	18 08 05.95403 −22 58 45.85509	5.9	3.227	179.49	12.71	5.186	12.5	8.771	9.819	9.424	45.2	90.9
Pgt	4066595982131860992	18 08 05.95612 −22 58 49.08147	4.2	12.135	−1.71	−2.47		9.8	0.269	9.327	0	−23.0	105.7
J430179	2043-03-24 13:59:36.88	18 08 15.50852 −22 58 49.75531	2.4	1.864	359.48	12.49	5.178	−5.0	9.548	12.361	11.469	240.9	91.3
Pgt	4066595299286227712	18 08 15.50730 −22 58 47.89166	1.4	7.000	−1.73	−2.47		−7.8	0.226	11.850	0	−23.0	100.1
J430180	2043-03-24 14:52:01.66	18 08 16.25449 −22 58 33.13832	3.2	14.659	179.47	12.48	5.178	55.0	8.694	12.427	11.414	227.7	91.4
Pgt	4066595299286230656	18 08 16.26434 −22 58 47.79637	1.8	55.048	−1.73	−2.47		52.7	0.461	11.915	0	−23.0	99.6
J430181	2043-03-24 18:32:55.87	18 08 19.44973 −22 58 55.29315	2.4	7.899	359.48	12.40	5.175	−26.1	7.729	11.120	10.178	172.4	91.5
Pgt	4066595123138402048	18 08 19.44453 −22 58 47.39449	1.5	29.649	−1.73	−2.47		−28.8	0.725	10.601	0	−23.0	97.8
J430182	2043-03-24 21:48:31.51	18 08 22.23945 −22 58 37.12909	2.3	9.910	179.47	12.34	5.173	36.0	8.523	12.900	11.760	123.3	91.6
Pgt	4066600998654526976	18 08 22.24615 −22 58 47.03840	1.4	37.180	−1.74	−2.47		33.5	0.513	12.375	0	−23.0	96.1
J430183	2043-03-26 00:37:50.28	18 08 44.77812 −22 58 29.71118	2.3	14.398	179.44	11.81	5.155	53.6	9.691	13.573	12.494	80.0	92.6
Pgt	4066589458130475904	18 08 44.78829 −22 58 44.10865	1.6	53.832	−1.78	−2.46		51.2	0.286	13.001	0	−23.0	82.7
J430184	2043-03-26 05:41:06.59	18 08 48.94825 −22 59 03.04797	2.9	19.491	359.46	11.71	5.152		8.244	13.704	12.385	4.0	92.8
Pt	4066589389410939648	18 08 48.93494 −22 58 43.55773	2.0	72.825	−1.79	−2.46			0.859	13.123	0	−23.0	80.1
J430185	2043-03-26 10:14:01.85	18 08 52.64239 −22 58 47.79993	3.6	4.738	359.45	11.62	5.149	−14.9	9.428	14.787	13.493	295.6	93.0
Pgt	4066588667856410112	18 08 52.63908 −22 58 43.06246	2.4	17.691	−1.79	−2.46		−17.6	0.463	14.197	0	−23.0	77.9
J430186	2043-03-28 07:31:19.14	18 09 28.07623 −22 58 33.32468	2.5	4.867	179.41	10.73	5.118	18.0	9.687	13.676	12.606	334.5	94.7
Pgt	4066587254759184256	18 09 28.07983 −22 58 38.19183	1.7	18.068	−1.86	−2.46		15.2	0.277	13.000	0	−23.0	55.6
J430187	2043-03-28 15:25:57.05	18 09 33.99548 −22 58 30.22982	2.4	7.128	179.41	10.57	5.113	25.8	5.959	10.470	9.321	215.6	95.0
Pgt	4066587224746993792	18 09 34.00081 −22 58 37.35731	1.8	26.431	−1.87	−2.46		23.0	2.142	9.779	0	−23.0	51.7

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

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

Table 8. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K $\leq$ 10 (part 8 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430188	2043-03-30 03:59:01.81	18 10 00.31180 −22 58 39.65383	4.1	6.056	359.41	9.85	5.088	−19.1	9.834	14.825	13.503	25.9	96.5
Pgt	4066633232449175552	18 10 00.30726 −22 58 33.59817	3.2	22.349	−1.91	−2.46		−22.0	0.277	14.057	0	−23.0	34.0
J430189	2043-03-30 04:51:01.79	18 10 00.91247 −22 58 36.78185	2.1	3.271	359.40	9.84	5.088	−9.6	9.233	13.404	12.297	12.9	96.5
Pgt	4066633228088837248	18 10 00.91000 −22 58 33.51117	1.5	12.069	−1.91	−2.46		−12.6	0.365	12.634	0	−23.0	33.6
J430190	2043-03-31 10:01:03.02	18 10 20.63433 −22 58 49.74070	2.0	19.087	359.41	9.26	5.068	−78.8	8.757	13.236	12.084	294.3	97.6
Pgt	4066632678333003136	18 10 20.62018 −22 58 30.65492	1.4	70.159	−1.95	−2.46		−81.2	0.501	12.400	0	−23.0	19.6
J430191*	2043-03-31 12:15:01.04	18 10 22.09555 −22 58 47.23805	4.1	16.797	359.41	9.22	5.067	−61.4	8.382	13.298	12.061	260.7	97.7
Pgt	4066632678341279232	18 10 22.08305 −22 58 30.44237	3.1	61.723	−1.95	−2.46		−64.0		12.457	0	−23.0	18.6
J430192*	2043-03-31 12:47:58.46	18 10 22.45460 −22 58 47.43415	3.3	17.045	359.41	9.20	5.066	−62.8	9.483	13.123	12.124	252.4	97.7
Pgt	4066632678332440576	18 10 22.44192 −22 58 30.39022	2.4	62.630	−1.95	−2.46		−65.3	0.230	12.280	0	−23.0	18.3
J430193	2043-04-03 17:49:01.36	18 11 08.77056 −22 58 13.41747	3.9	10.321	179.41	7.67	5.015	36.6	9.509	14.883	13.595	174.2	100.7
Pgt	4066630513669529856	18 11 08.77823 −22 58 23.73820	2.7	37.541	−2.04	−2.45		33.6	0.462	13.843	0	−23.0	22.5
J430194	2043-04-03 20:14:20.92	18 11 10.11821 −22 58 40.37564	10.8	16.823	359.44	7.63	5.013	−60.5	7.373	14.826	13.231	137.8	100.8
Pgt	4066630307511068160	18 11 10.10631 −22 58 23.55334	7.6	61.170	−2.04	−2.45		−63.3		13.779	0	−23.0	23.7
J430195	2043-04-04 05:45:27.15	18 11 15.26287 −22 58 42.96433	2.8	20.122	359.45	7.44	5.007		9.657	13.944	12.806	354.6	101.2
Pt	4066636118668308352	18 11 15.24891 −22 58 22.84284	2.0	73.075	−2.05	−2.45			0.304	12.870	0	−23.0	28.6
J430196	2043-04-05 07:50:15.02	18 11 28.71800 −22 58 36.28403	17.7	15.250	359.47	6.92	4.990	−52.5	6.423	14.238	12.610	322.4	102.2
Pgt	4066624466355551744	18 11 28.70787 −22 58 21.03473	12.2	55.190	−2.07	−2.45		−55.5		13.085	0	−23.0	42.7
J430197	2043-04-06 03:02:45.18	18 11 38.03952 −22 58 37.88390	3.4	18.042	359.50	6.54	4.977	−66.7	9.963	14.915	13.672	33.5	102.9
Pgt	4066624608155670272	18 11 38.02819 −22 58 19.84237	2.4	65.130	−2.09	−2.45		−69.6	0.323	13.701	0	−23.0	53.4
J430198	2043-04-06 09:52:36.40	18 11 41.21644 −22 58 12.06597	4.1	7.382	179.48	6.40	4.973	26.3	9.138	14.797	13.468	290.8	103.2
Pgt	4066624711234210304	18 11 41.22126 −22 58 19.44778	2.8	26.624	−2.09	−2.45		22.9	0.586	13.561	0	−23.0	57.3
J430199	2043-04-06 17:43:58.63	18 11 44.80678 −22 58 07.73523	3.8	11.279	179.49	6.25	4.968	39.8	9.564	14.966	13.675	172.7	103.5
Pgt	4066623955319957888	18 11 44.81402 −22 58 19.01409	2.8	40.638	−2.10	−2.45		36.5	0.413	13.702	0	−23.0	61.9
J430200*	2043-04-06 19:33:01.48	18 11 45.62174 −22 58 01.46633	3.7	17.451	179.49	6.21	4.966	65.9	9.217	10.770	10.231	145.3	103.6
Pgt	4066623989679695488	18 11 45.63303 −22 58 18.91690	2.7	62.859	−2.10	−2.45		63.0	0.224	9.500	0	−23.0	62.9
J430201	2043-04-07 16:35:10.83	18 11 54.78288 −22 58 20.18780	5.7	2.308	359.55	5.79	4.953	−5.7	8.222	14.228	12.824	189.0	104.4
Pgt	4066625192270517248	18 11 54.78158 −22 58 17.87982	4.0	8.291	−2.12	−2.45		−9.5	0.978	12.882	0	−23.0	75.4
J430202	2043-04-08 03:01:40.64	18 11 59.09772 −22 58 21.22068	4.2	3.795	359.58	5.59	4.946	−10.6	7.822	14.092	12.700	31.9	104.8
Pgt	4066625157910770816	18 11 59.09571 −22 58 17.42613	3.1	13.612	−2.13	−2.45		−14.4	1.250	12.707	0	−23.0	81.7
J430203	2043-04-14 23:08:51.36	18 12 46.86443 −22 57 58.43256	1.6	18.149	180.76	2.37	4.841	68.5	9.445	11.796	11.065	83.6	111.4
Pgt	4066457379353660800	18 12 46.84711 −22 58 16.58035	1.1	63.717	−2.21	−2.44		63.1	0.213	9.478	0	−23.0	173.7
J430204	2043-04-15 07:42:28.80	18 12 48.28139 −22 58 29.99196	1.8	13.101	1.03	2.20	4.835	−40.3	8.630	11.568	10.715	314.8	111.7
Pgt	4066457379353634688	18 12 48.29838 −22 58 16.89300	1.3	45.943	−2.21	−2.44		−46.8	0.388	9.171	0	−23.0	170.4
J430205	2043-04-23 23:37:18.70	18 12 51.87522 −22 58 56.23228	4.7	19.800	355.14	−1.71	4.709	−70.7	9.128	14.856	13.476	67.6	120.2
Pgt	4066457310595760000	18 12 51.75378 −22 58 36.50346	3.6	67.622	−2.22	−2.43		−75.5		12.185	0	−23.0	63.4
J430206	2043-04-24 22:57:36.53	18 12 48.28139 −22 58 29.99208	1.8	10.188	175.90	−2.13	4.695	34.2	8.630	11.568	10.715	76.6	121.1
Pgt	4066457379353634688	18 12 48.33418 −22 58 40.15429	1.3	34.695	−2.21	−2.43		30.2	0.377	9.139	0	−23.0	51.9
J430207	2043-04-30 15:01:28.22	18 12 13.12965 −22 58 48.66804	2.5	18.371	177.31	−4.54	4.619	62.9	8.358	13.917	12.592	189.9	126.8
Pgt	4066622065534288384	18 12 13.19200 −22 59 07.01845	1.9	61.541	−2.15	−2.43		61.9	0.638	12.308	0	−23.0	17.2
J430208*	2043-05-01 12:08:30.51	18 12 05.36959 −22 58 55.87956	4.7	16.139	177.41	−4.91	4.608	53.0	8.718	13.344	12.155	232.2	127.6
Pgt	4066622306052469120	18 12 05.42242 −22 59 12.00217	3.3	53.932	−2.14	−2.43		52.1		11.819	0	−23.0	27.8
J430209	2043-05-01 12:30:45.65	18 12 05.27898 −22 59 11.65700	4.4	0.435	177.39	−4.92	4.607	1.9	8.970	14.956	13.584	226.6	127.7
Pgt	4066622134253775360	18 12 05.28041 −22 59 12.09157	3.2	1.454	−2.14	−2.43		0.8	0.662	13.432	0	−23.0	28.0
J430210	2043-05-01 16:23:14.61	18 12 03.78452 −22 59 12.76272	2.4	0.267	177.41	−4.98	4.605	1.3	8.354	13.711	12.416	168.3	127.8
Pgt	4066622202973255040	18 12 03.78540 −22 59 13.02943	1.6	0.892	−2.13	−2.43		0.3	0.683	12.202	0	−23.0	30.0
J430211	2043-05-01 22:46:43.82	18 12 01.27002 −22 59 13.38215	3.1	1.211	177.44	−5.09	4.602	4.2	9.378	14.799	13.485	72.2	128.1
Pgt	4066622202973260544	18 12 01.27394 −22 59 14.59174	2.2	4.041	−2.13	−2.43		3.2	0.439	13.313	0	−23.0	33.4

Table 8 *continued on next page*

Table 8 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430212	2043-05-02 00:12:18.91	18 12 00.76290 −22 59 32.44137	2.3	17.516	357.42	−5.12	4.601	−57.7	8.082	13.369	12.072	50.7	128.2
Pgt	4066622168613520256	18 12 00.70577 −22 59 14.94297	1.6	58.452	−2.13	−2.43		−58.6	0.741	11.889	0	−23.0	34.1
J430213	2043-05-03 16:54:07.19	18 11 43.33812 −22 59 32.84061	3.2	7.500	357.58	−5.81	4.580	−22.6	9.590	14.866	13.587	158.5	129.9
Pgt	4066623779160709248	18 11 43.31520 −22 59 25.34703	2.3	24.912	−2.10	−2.43		−23.3	0.368	13.523	0	−23.0	56.2
J430214	2043-05-04 13:20:15.13	18 11 33.66751 −22 59 10.47778	3.5	20.383	177.67	−6.15	4.569	73.1	7.140	13.288	11.895	211.1	130.7
Pgt	4066624195838810752	18 11 33.72742 −22 59 30.84411	2.4	67.546	−2.08	−2.43		72.7	1.598	12.006	0	−23.0	67.8
J430215	2043-05-07 17:00:56.16	18 10 53.33557 −23 00 05.63955	2.2	12.981	357.84	−7.38	4.531	−40.1	9.657	14.097	12.964	152.7	133.9
Pgt	4066630036993197440	18 10 53.30018 −22 59 52.66781	1.6	42.658	−2.01	−2.43		−40.4		13.014	0	−23.0	113.6
J430216	2043-05-08 00:24:50.07	18 10 48.88721 −22 59 36.37214	1.5	18.559	177.88	−7.49	4.527	61.7	8.343	10.713	9.980	41.4	134.3
Pgt	4066630792907474944	18 10 48.93685 −22 59 54.91802	1.1	60.939	−2.00	−2.43		61.5	0.362	9.647	0	−23.0	118.2
J430217	2043-05-09 07:03:14.66	18 10 30.11801 −23 00 12.85979	2.1	8.423	357.93	−7.98	4.513	−25.4	7.756	12.704	11.472	300.5	135.6
Pgt	4066632403454998016	18 10 30.09597 −23 00 04.44230	1.5	27.567	−1.97	−2.43		−25.6	0.799	11.706	0	−23.0	137.6
J430218	2043-05-09 22:30:04.79	18 10 20.18334 −23 00 28.67595	1.9	19.326	357.95	−8.21	4.505	−64.8	9.350	13.482	12.395	68.1	136.2
Pgt	4066632339034362624	18 10 20.13338 −23 00 09.36270	1.3	63.147	−1.95	−2.43		−65.0		12.515	0	−23.0	147.3
J430219	2043-05-10 23:19:10.22	18 10 03.44646 −23 00 03.71225	8.6	13.721	178.02	−8.59	4.494	42.4	8.129	14.689	13.127	54.7	137.3
Pgt	4066633026290699392	18 10 03.48073 −23 00 17.42489	6.2	44.718	−1.92	−2.43		42.3		13.772	0	−23.0	162.6
J430220	2043-05-11 12:46:27.35	18 09 54.13270 −23 00 24.62386	3.0	2.754	358.04	−8.79	4.488	−8.2	8.012	13.681	12.309	212.3	137.9
Pgt	4066633095009263104	18 09 54.12588 −23 00 21.87108	2.3	8.965	−1.90	−2.43		−8.3	0.876	12.788	0	−23.0	170.1
J430221	2043-05-11 15:24:21.29	18 09 52.29786 −23 00 34.19257	3.5	11.453	358.04	−8.83	4.486	−34.8	8.729	14.130	12.731	172.7	138.0
Pgt	4066539258548167808	18 09 52.26949 −23 00 22.74645	2.5	37.265	−1.90	−2.43		−34.9		13.242	0	−23.0	171.4
J430222*	2043-05-11 20:46:09.84	18 09 48.47331 −23 00 30.35994	3.5	5.827	358.05	−8.91	4.484	−17.4	9.855	13.470	12.472	92.0	138.2
Pgt	4066539292907952896	18 09 48.45897 −23 00 24.53624	2.5	18.950	−1.89	−2.43		−17.5	0.204	12.592	0	−23.0	173.6
J430223	2043-05-11 22:08:56.12	18 09 47.51635 −23 00 42.56379	2.0	17.576	358.05	−8.93	4.483	−56.4	9.783	14.023	12.908	71.3	138.3
Pgt	4066539292907953280	18 09 47.47301 −23 00 24.99783	1.5	57.150	−1.89	−2.43		−56.5		13.147	0	−23.0	174.0
J430224	2043-05-11 23:17:04.04	18 09 46.71590 −23 00 48.17085	1.4	22.806	358.05	−8.95	4.483		8.902	10.673	10.077	54.2	138.3
Pt	4066539292907957376	18 09 46.65963 −23 00 25.37815	1.1	74.146	−1.89	−2.43			0.257	9.800	0	−23.0	174.2
J430225	2043-05-12 10:57:55.60	18 09 38.16364 −23 00 14.75914	2.0	14.559	178.09	−9.12	4.477	45.1	9.759	13.794	12.732	238.4	138.8
Pgt	4066586193954720768	18 09 38.19876 −23 00 29.30997	1.4	47.278	−1.87	−2.43		45.0		12.941	0	−23.0	172.3
J430226	2043-05-13 02:54:23.35	18 09 26.42140 −23 00 52.10947	2.9	17.390	358.10	−9.35	4.470	−55.5	9.688	14.928	13.597	358.6	139.5
Pgt	4066586017808403840	18 09 26.37971 −23 00 34.72944	2.1	56.381	−1.85	−2.43		−55.6	0.330	14.102	0	−23.0	164.1
J430227	2043-05-14 02:48:28.33	18 09 08.08912 −23 00 50.06711	2.3	7.110	358.15	−9.69	4.460	−21.2	8.318	12.941	11.768	359.0	140.5
Pgt	4066585468052596096	18 09 08.07252 −23 00 42.96048	1.7	22.999	−1.82	−2.43		−21.2	0.549	12.154	0	−23.0	150.7
J430228	2043-05-15 04:35:06.74	18 08 47.53878 −23 00 46.27861	2.2	5.690	178.21	−10.05	4.449	16.9	9.623	13.958	12.844	331.2	141.7
Pgt	4066588255539512064	18 08 47.55168 −23 00 51.96539	1.7	18.358	−1.78	−2.43		16.9	0.262	13.211	0	−23.0	136.5
J430229	2043-05-16 20:32:49.05	18 08 14.22255 −23 01 25.59357	3.5	19.469	358.27	−10.59	4.432	−64.0	9.853	13.546	12.536	90.0	143.4
Pgt	4066594886973779456	18 08 14.17986 −23 01 06.13312	2.3	62.585	−1.72	−2.43		−64.0	0.212	12.856	0	−23.0	115.1
J430230	2043-05-16 22:43:50.46	18 08 12.31278 −23 01 11.55519	2.8	4.644	358.28	−10.62	4.431	−13.7	9.952	14.549	13.515	57.2	143.5
Pgt	4066594955688788224	18 08 12.30266 −23 01 06.91310	1.7	14.926	−1.72	−2.43		−13.7	0.223	13.861	0	−23.0	113.9
J430231	2043-05-17 05:55:03.86	18 08 06.06574 −23 01 00.36705	2.5	9.121	178.29	−10.71	4.428	27.1	9.150	13.885	12.692	309.1	143.8
Pgt	4066594783890149376	18 08 06.08539 −23 01 09.48373	1.6	29.294	−1.71	−2.43		27.1	0.343	13.207	0	−23.0	110.2
J430232	2043-05-17 13:32:46.91	18 07 59.38082 −23 00 53.46662	2.7	18.760	178.31	−10.81	4.425	60.5	9.984	14.525	13.368	194.3	144.1
Pgt	4066595471084976256	18 07 59.42084 −23 01 12.21814	1.9	60.210	−1.70	−2.43		60.5	0.238	13.857	0	−23.0	106.3
J430233	2043-05-19 02:58:54.25	18 07 25.76622 −23 01 25.31979	4.7	0.379	178.37	−11.29	4.411	1.1	7.812	12.621	11.375	351.1	145.8
Pgt	4066596776759572352	18 07 25.76700 −23 01 25.69821	3.5	1.211	−1.64	−2.43		1.1	0.759	12.000	0	−23.0	87.2
J430234	2043-05-20 16:29:06.48	18 06 50.48294 −23 01 28.43112	1.9	10.819	178.44	−11.75	4.396	32.1	7.907	13.074	11.798	146.8	147.4
Pgt	4069576762472028800	18 06 50.50422 −23 01 39.24659	1.3	34.498	−1.57	−2.43		32.1	0.771	12.497	0	−23.0	68.5
J430235	2043-05-22 00:00:18.35	18 06 19.73022 −23 02 05.74585	2.2	15.137	358.49	−12.12	4.385	−46.0	9.949	14.393	13.254	32.6	148.8
Pgt	4069575766039689216	18 06 19.70137 −23 01 50.61435	1.6	48.138	−1.52	−2.43		−46.0	0.237	13.849	0	−23.0	52.9
J430236*	2043-05-23 04:01:51.19	18 05 51.46899 −23 02 12.57503	4.0	11.910	358.54	−12.44	4.375	−35.4	9.858	14.449	13.275	331.0	150.0
Pgt	4069578755337641216	18 05 51.44708 −23 02 00.66926	2.8	37.790	−1.47	−2.43		−35.3	0.235	13.934	0	−23.0	39.1

Table 8 *continued on next page*

Table 8 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430237	2043-05-23 12:41:09.72	18 05 42.57234 −23 02 10.34303	3.3	6.585	358.56	−12.54	4.372	−19.2	7.185	12.447	11.139	200.7	150.4
Pgt	4069573601376918528	18 05 42.56037 −23 02 03.75985	2.2	20.881	−1.45	−2.43		−19.2	1.123	11.941	0	−23.0	34.8
J430238	2043-05-23 17:33:30.24	18 05 37.49681 −23 01 49.83575	7.0	15.665	178.58	−12.59	4.370	47.6	5.876	12.169	10.655	127.4	150.6
Pgt	4069573871938648320	18 05 37.52495 −23 02 05.49575	4.7	49.653	−1.44	−2.43		47.7	3.097	11.667	0	−23.0	32.4
J430239	2043-05-23 21:05:39.46	18 05 33.89773 −23 02 29.88447	2.1	23.138	358.57	−12.63	4.369		9.310	13.861	12.633	74.2	150.8
Pt	4069573738815595904	18 05 33.85600 −23 02 06.75360	1.4	73.321	−1.44	−2.43			0.288	13.363	0	−23.0	30.7
J430240	2043-05-24 18:13:14.76	18 05 11.69464 −23 02 24.50366	2.8	10.273	358.62	−12.86	4.362	−30.2	9.353	14.736	14.008	116.4	151.7
Pgt	4069585279371757952	18 05 11.67668 −23 02 14.23390	1.9	32.501	−1.40	−2.43		−30.2		14.257	0	−23.0	20.4
J430241*	2043-05-24 18:29:31.90	18 05 11.36055 −23 01 58.03441	4.5	16.300	178.63	−12.87	4.362	49.8	8.360	14.249	13.012	112.3	151.7
Pgt	4069585386766944512	18 05 11.38888 −23 02 14.32960	3.1	51.568	−1.40	−2.43		49.8	0.537	13.770	0	−23.0	20.3
J430242	2043-05-24 21:04:09.86	18 05 08.63215 −23 02 03.37936	2.2	11.862	178.63	−12.90	4.361	35.1	9.265	13.382	12.304	73.5	151.8
Pgt	4069585348091252608	18 05 08.65272 −23 02 15.23766	1.7	37.520	−1.39	−2.43		35.1	0.299	12.906	0	−23.0	19.0
J430243	2043-05-25 08:59:32.84	18 04 55.87506 −23 01 57.57722	2.4	21.853	178.65	−13.02	4.357	76.6	9.633	14.383	13.193	254.1	152.3
Pgt	4069584665211760896	18 04 55.91225 −23 02 19.42447	1.6	69.063	−1.37	−2.43		76.6	0.316	13.917	0	−23.0	13.4
J430244	2043-05-25 14:10:14.66	18 04 50.34199 −23 02 23.99797	6.3	2.764	358.66	−13.07	4.356	−8.0	6.919	13.025	11.579	176.2	152.6
Pgt	4069584729615940864	18 04 50.33730 −23 02 21.23490	4.0	8.731	−1.36	−2.43		−8.0	1.690	12.563	0	−23.0	11.1
J430245	2043-05-25 17:18:25.90	18 04 46.97743 −23 02 39.47474	1.8	17.150	358.66	−13.11	4.355	−52.8	9.508	13.428	12.360	129.0	152.7
Pgt	4069584424694149376	18 04 46.94834 −23 02 22.32899	1.1	54.167	−1.35	−2.43		−52.8	0.244	12.969	0	−23.0	9.7
J430246	2043-05-25 18:18:19.03	18 04 45.87252 −23 02 25.38066	9.4	2.705	358.66	−13.12	4.354	−7.8	5.102	11.764	10.161	114.0	152.8
Pgt	4069584424693604736	18 04 45.86795 −23 02 22.67675	5.8	8.542	−1.35	−2.43		−7.8		11.306	0	−23.0	9.3
J430247	2043-05-25 18:52:57.42	18 04 45.27215 −23 02 40.33541	1.7	17.462	358.66	−13.12	4.354	−54.0	8.714	11.211	10.452	105.3	152.8
Pgt	4069584420376425344	18 04 45.24259 −23 02 22.87782	1.1	55.146	−1.35	−2.43		−54.0	0.295	10.754	0	−23.0	9.1
J430248	2043-05-26 08:17:49.20	18 04 30.59128 −23 02 07.50432	1.5	20.032	178.70	−13.26	4.350	64.9	8.684	11.862	10.964	263.5	153.4
Pgt	4069587512752878336	18 04 30.62428 −23 02 27.53123	0.9	63.200	−1.32	−2.43		65.0	0.362	11.416	0	−23.0	5.5
J430249	2043-05-26 15:10:26.97	18 04 23.10152 −23 02 51.96994	2.1	22.073	358.70	−13.33	4.348	−78.2	9.831	13.916	12.824	160.0	153.7
Pgt	4069212240006145664	18 04 23.06520 −23 02 29.90269	1.5	69.605	−1.31	−2.43		−78.1	0.245	13.476	0	−23.0	6.2
J430250	2043-05-27 01:59:53.03	18 04 11.11168 −23 02 52.41920	4.2	18.810	358.72	−13.44	4.345	−59.3	7.297	13.249	11.789	357.2	154.2
Pgt	4069212892841185152	18 04 11.08125 −23 02 33.61391	3.1	59.270	−1.29	−2.43		−59.2	1.451	12.818	0	−23.0	10.1
J430251	2043-05-28 08:12:28.29	18 03 37.07012 −23 02 38.25717	1.5	5.564	178.78	−13.73	4.336	16.1	8.299	12.444	11.361	262.6	155.5
Pgt	4069259136733506048	18 03 37.07868 −23 02 43.82022	1.0	17.497	−1.23	−2.43		16.1	0.516	12.036	0	−23.0	24.7
J430252	2043-05-30 13:49:05.91	18 02 34.81454 −23 03 07.44980	1.6	6.145	358.88	−14.22	4.321	−17.7	8.187	10.785	10.006	176.0	157.9
Pgt	4069256735869306880	18 02 34.80587 −23 03 01.30610	1.3	19.256	−1.12	−2.43		−17.7	0.345	10.415	0	−23.0	52.9
J430253	2043-06-02 10:04:49.82	18 01 12.18315 −23 03 00.92489	2.1	21.243	179.02	−14.78	4.304	70.4	7.745	12.735	11.502	229.0	160.9
Pgt	4069247935458745856	18 01 12.20945 −23 03 22.16442	1.6	66.307	−0.97	−2.43		70.3	0.771	12.407	0	−23.1	91.4
J430254	2043-06-02 21:08:30.13	18 00 58.48877 −23 03 13.23743	1.8	12.139	179.04	−14.87	4.301	35.4	9.101	13.308	12.208	62.5	161.4
Pgt	4069435539632881408	18 00 58.50351 −23 03 25.37523	1.2	37.870	−0.94	−2.43		35.4	0.253	12.986	0	−23.1	98.0
J430255	2043-06-02 22:33:46.31	18 00 56.74018 −23 03 28.87537	3.0	3.092	359.04	−14.88	4.301	−8.8	9.611	14.890	13.607	41.1	161.5
Pgt	4069434268322555904	18 00 56.73643 −23 03 25.78410	2.0	9.644	−0.94	−2.43		−8.9	0.354	14.569	0	−23.1	98.8
J430256*	2043-06-03 06:28:58.29	18 00 46.88792 −23 03 48.33749	3.0	20.293	359.05	−14.94	4.299	−65.1	7.436	9.369	8.670	282.0	161.8
Pgt	4069434203911076992	18 00 46.86362 −23 03 28.04699	1.9	63.276	−0.92	−2.43		−65.1	0.495	9.052	0	−23.1	103.6
J430257	2043-06-04 02:42:14.87	18 00 21.46062 −23 03 30.27681	1.7	3.425	179.10	−15.08	4.295	9.8	9.265	13.068	12.416	337.7	162.7
Pgt	4069437669936653440	18 00 21.46453 −23 03 33.70130	1.2	10.668	−0.88	−2.43		9.7	0.265	12.761	0	−23.1	115.9
J430258	2043-06-04 16:29:08.81	18 00 04.02539 −23 04 00.70520	2.6	23.255	359.12	−15.18	4.292		8.235	11.270	10.401	130.4	163.3
Pt	4069432004888451328	18 00 03.99945 −23 03 37.45256	1.8	72.389	−0.84	−2.43			0.426	10.970	0	−23.1	124.4
J430259	2043-06-05 09:14:27.43	17 59 42.62856 −23 04 01.84103	1.9	19.946	359.15	−15.29	4.289	−63.1	8.290	11.274	10.419	238.2	164.1
Pgt	4069432554644439936	17 59 42.60713 −23 03 41.89709	1.3	62.039	−0.81	−2.43		−63.2	0.402	10.982	0	−23.1	134.8
J430260	2043-06-05 14:12:16.56	17 59 36.21677 −23 03 24.07489	2.3	19.116	179.17	−15.32	4.288	59.5	8.368	13.448	12.171	163.6	164.3
Pgt	4069444335723495936	17 59 36.23693 −23 03 43.18858	1.5	59.443	−0.79	−2.43		59.4	0.596	13.159	0	−23.1	137.9
J430261	2043-06-06 11:25:00.24	17 59 08.84159 −23 03 40.26971	1.4	8.308	179.20	−15.45	4.284	23.9	9.206	11.930	11.107	204.4	165.3
Pgt	4069443579809056384	17 59 08.84994 −23 03 48.57685	0.9	25.811	−0.75	−2.43		23.8	0.250	11.650	0	−23.1	151.2

Table 8 *continued on next page*

Table 8 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430262*	2043-06-06 13:37:56.13	17 59 05.98081 −23 03 55.12509	2.6	5.998	359.21	−15.46	4.283	−17.1	9.009	12.996	11.914	171.1	165.4
Pgt	4069443584119586816	17 59 05.97479 −23 03 49.12720	1.8	18.634	−0.74	−2.43		−17.2	0.335	12.717	0	−23.1	152.6
J430263	2043-06-07 15:27:36.32	17 58 32.25077 −23 03 44.08555	1.9	11.278	179.26	−15.61	4.279	32.7	8.087	11.303	10.377	142.4	166.5
Pgt	4069353248056677120	17 58 32.26135 −23 03 55.36244	1.3	34.997	−0.68	−2.43		32.5	0.444	11.034	0	−23.1	168.2
J430264	2043-06-08 18:17:22.12	17 57 56.88553 −23 04 08.84524	2.6	7.364	359.31	−15.75	4.274	−20.9	9.784	14.634	13.408	98.8	167.7
Pgt	4069398985209591296	17 57 56.87908 −23 04 01.48214	1.7	22.827	−0.62	−2.43		−21.1	0.278	14.374	0	−23.1	171.7
J430265	2043-06-09 07:14:15.78	17 57 39.69189 −23 04 15.04064	3.4	10.741	359.33	−15.81	4.272	−30.9	8.800	14.926	13.492	263.9	168.3
Pgt	4069399500605769856	17 57 39.68280 −23 04 04.29989	2.4	33.283	−0.59	−2.43		−31.0	0.681	14.671	0	−23.1	164.8
J430266	2043-06-10 00:15:51.21	17 57 16.94780 −23 03 55.51311	2.4	12.356	179.37	−15.89	4.270	35.9	9.936	14.201	13.063	7.7	169.1
Pgt	4069396820546312320	17 57 16.95771 −23 04 07.86806	1.5	38.262	−0.54	−2.43		35.7	0.214	13.951	0	−23.1	154.9
J430267	2043-06-10 02:05:57.94	17 57 14.51425 −23 04 24.61091	6.2	16.369	359.37	−15.89	4.269	−48.7	7.945	14.848	13.341	340.1	169.2
Pgt	4069396786186575488	17 57 14.50113 −23 04 08.24321	4.3	50.686	−0.54	−2.43		−48.9		14.599	0	−23.1	153.8
J430268	2043-06-10 13:24:48.17	17 56 59.32921 −23 04 13.50753	3.3	2.993	359.39	−15.94	4.268	−8.4	6.415	12.070	10.729	169.9	169.7
Pgt	4069397297243228928	17 56 59.32690 −23 04 10.51439	2.3	9.265	−0.51	−2.43		−8.6	1.771	11.824	0	−23.1	147.2
J430269	2043-06-11 12:31:55.60	17 56 28.14828 −23 03 50.95581	5.8	23.976	179.44	−16.03	4.265		7.091	14.194	12.669	182.0	170.7
P	4069408537217299968	17 56 28.16539 −23 04 14.93067	4.1	74.163	−0.46	−2.43			2.247	13.954	0	−23.1	133.9
J430270	2043-06-11 17:38:42.34	17 56 21.26269 −23 04 37.69360	2.8	21.828	359.44	−16.05	4.264	−72.7	9.447	14.623	13.592	105.1	170.9
Pgt	4069408193619927040	17 56 21.24727 −23 04 15.86659	1.9	67.509	−0.44	−2.43		−72.9	0.305	14.384	0	−23.1	131.0
J430271*	2043-06-12 00:30:09.82	17 56 11.96283 −23 04 28.69795	19.7	11.600	359.46	−16.08	4.263	−33.3	5.221	14.816	13.003	1.9	171.3
Pgt	4069408331058914560	17 56 11.95484 −23 04 17.09827	12.6	35.870	−0.43	−2.43		−33.6		14.578	0	−23.1	127.2
J430272	2043-06-12 08:53:54.37	17 56 00.54451 −23 03 59.03849	2.8	19.531	179.47	−16.10	4.263	60.9	7.934	13.622	12.269	235.6	171.6
Pgt	4069387852651770368	17 56 00.55750 −23 04 18.56885	1.8	60.380	−0.41	−2.43		60.7	0.846	13.386	0	−23.1	122.6
J430273	2043-06-12 12:38:47.46	17 55 55.45219 −23 04 04.09766	8.5	15.115	179.48	−16.12	4.262	44.6	6.146	14.094	12.443	179.2	171.8
Pgt	4069387955731021696	17 55 55.46211 −23 04 19.21198	6.2	46.723	−0.40	−2.43		44.4		13.860	0	−23.1	120.5
J430274	2043-06-13 17:43:42.54	17 55 15.78203 −23 04 23.11536	11.1	0.806	179.54	−16.20	4.259	2.4	3.985	11.534	9.923	101.6	173.1
Pgt	4070137715246205568	17 55 15.78250 −23 04 23.92118	7.1	2.489	−0.33	−2.43		2.1	11.331	11.305	0	−23.1	104.8
J430275	2043-06-14 17:40:09.06	17 54 42.94185 −23 04 10.62909	3.6	16.789	179.58	−16.27	4.257	50.2	8.886	14.317	12.979	101.4	174.2
Pgt	4070141361745537152	17 54 42.95073 −23 04 27.41720	2.1	51.834	−0.27	−2.43		50.0	0.515	14.093	0	−23.1	92.3
J430276	2043-06-14 20:52:06.17	17 54 38.56272 −23 04 46.44524	2.9	18.588	359.59	−16.27	4.257	−56.6	9.956	14.923	13.668	53.2	174.3
Pgt	4070135447503446656	17 54 38.55298 −23 04 27.85809	2.0	57.385	−0.26	−2.43		−56.9	0.259	14.699	0	−23.1	90.7
J430277	2043-06-15 04:45:34.91	17 54 27.69661 −23 04 30.15832	6.3	1.239	359.60	−16.29	4.256	−3.3	8.428	14.822	13.337	294.5	174.7
Pgt	4070135589308350720	17 54 27.69598 −23 04 28.91922	4.1	3.825	−0.24	−2.43		−3.7	0.902	14.599	0	−23.1	86.6
J430278	2043-06-15 13:43:57.44	17 54 15.33839 −23 04 34.30896	2.5	4.229	359.62	−16.31	4.255	−11.8	9.978	14.394	13.242	159.5	175.1
Pgt	4070136070344734208	17 54 15.33634 −23 04 30.07969	1.7	13.053	−0.22	−2.43		−12.2		14.172	0	−23.1	82.0
J430279	2043-06-15 23:44:02.83	17 54 01.55426 −23 04 55.60623	5.0	24.292	359.64	−16.32	4.255		8.665	14.932	13.462	9.0	175.5
Pt	4070134730315352320	17 54 01.54310 −23 04 31.31451	3.4	74.961	−0.19	−2.43				14.711	0	−23.1	77.0
J430280*	2043-06-16 02:10:48.88	17 53 58.16163 −23 04 19.77563	7.8	11.832	179.64	−16.33	4.255	34.3	9.176	12.697	11.699	332.2	175.6
Pgt	4070146476978877952	17 53 58.16697 −23 04 31.60704	5.2	36.509	−0.19	−2.43		33.9	0.261	12.477	0	−23.1	75.8
J430281	2043-06-17 05:06:43.96	17 53 20.92755 −23 04 16.08012	3.6	18.503	179.69	−16.37	4.253	56.6	9.355	14.971	13.596	286.9	176.9
Pgt	4070147202902390272	17 53 20.93470 −23 04 34.58250	2.4	57.072	−0.12	−2.43		56.2	0.436	14.754	0	−23.1	62.3
J430282	2043-06-17 09:28:56.10	17 53 14.88238 −23 04 29.15449	4.2	5.868	179.70	−16.37	4.253	16.8	8.458	14.483	13.051	221.2	177.1
Pgt	4068648942142327296	17 53 14.88459 −23 04 35.02267	2.8	18.100	−0.11	−2.43		16.4	0.786	14.265	0	−23.1	60.1
J430283	2043-06-19 02:26:40.58	17 52 18.08317 −23 04 38.96869	6.9	0.404	359.78	−16.41	4.251	−0.9	7.671	14.706	13.108	324.8	178.9
Pgt	4068695293433302784	17 52 18.08306 −23 04 38.56483	4.4	1.245	−0.01	−2.43		−1.4		14.491	0	−23.1	39.9
J430284	2043-06-19 03:16:07.55	17 52 16.94028 −23 04 43.16352	3.3	4.538	359.78	−16.41	4.251	−12.6	6.485	11.811	10.470	312.4	178.9
Pgt	4068694919887630336	17 52 16.93902 −23 04 38.62533	1.9	13.992	−0.01	−2.43		−13.1	1.461	11.596	0	−23.1	39.4
J430285	2043-06-19 09:08:45.35	17 52 08.77479 −23 04 19.14571	5.0	19.899	179.79	−16.41	4.251	62.4	8.420	14.591	13.118	224.0	179.2
Pgt	4068695710161370496	17 52 08.78001 −23 04 39.04437	3.1	61.348	0.01	−2.43		62.0	0.881	14.376	0	−23.1	36.5
J430286	2043-06-19 13:26:54.86	17 52 02.80239 −23 04 25.06182	1.7	14.276	179.80	−16.41	4.251	41.9	9.271	13.268	12.192	159.2	179.3
Pgt	4068695813240596352	17 52 02.80599 −23 04 39.33733	1.0	44.011	0.02	−2.43		41.4	0.262	13.053	0	−23.1	34.4

Table 8 *continued on next page*

Table 8 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430287	2043-06-19 21:24:33.64	17 51 51.75394 −23 04 52.12027	5.2	12.272	359.82	−16.41	4.251	−35.2	7.883	14.407	12.859	39.5	179.6
Pgt	4068692927021348352	17 51 51.75108 −23 04 39.84870	3.3	37.831	0.04	−2.42		−35.6		14.193	0	−23.1	30.5
J430288	2043-06-19 23:13:26.74	17 51 49.23585 −23 05 02.32575	4.1	22.366	359.82	−16.41	4.251	−76.1	7.094	13.332	11.844	12.2	179.6
Pgt	4068692892661623040	17 51 49.23072 −23 04 39.95973	2.6	68.950	0.04	−2.42		−76.5	1.690	13.117	0	−23.1	29.6
J430289	2043-06-20 02:04:25.66	17 51 45.27466 −23 04 48.22111	2.4	8.091	359.82	−16.41	4.250	−22.8	9.476	14.316	13.080	329.3	179.7
Pgt	4068692853891886976	17 51 45.27286 −23 04 40.12996	1.6	24.943	0.05	−2.42		−23.3	0.324	14.101	0	−23.1	28.2
J430290	2043-06-20 03:17:18.77	17 51 43.58455 −23 04 35.01455	2.1	5.186	179.83	−16.41	4.250	14.9	8.105	12.642	11.468	311.0	179.7
Pgt	4068693060050350080	17 51 43.58569 −23 04 40.20100	1.2	15.989	0.05	−2.42		14.4	0.555	12.427	0	−23.1	27.6
J430291	2043-06-20 04:26:02.23	17 51 41.99867 −23 04 57.98881	4.7	17.722	359.83	−16.41	4.250	−53.1	8.804	14.828	13.388	293.8	179.6
Pgt	4068693060050294528	17 51 41.99482 −23 04 40.26714	2.8	54.631	0.06	−2.42		−53.6		14.613	0	−23.1	27.1
J430292	2043-06-21 01:16:48.62	17 51 13.04304 −23 04 38.58848	4.9	2.740	179.87	−16.41	4.250	8.0	8.172	14.211	12.745	340.1	178.9
Pgt	4068692171107465728	17 51 13.04350 −23 04 41.32887	3.0	8.447	0.11	−2.42		7.5	1.043	13.996	0	−23.1	16.9
J430293	2043-06-21 02:09:15.55	17 51 11.83272 −23 04 59.54648	2.3	18.179	359.87	−16.41	4.250	−54.9	9.379	13.623	12.497	326.9	178.9
Pgt	4068692166697124096	17 51 11.82970 −23 04 41.36747	1.3	56.038	0.11	−2.42		−55.3	0.274	13.408	0	−23.1	16.5
J430294	2043-06-21 02:51:30.54	17 51 10.85031 −23 04 31.44466	6.4	9.954	179.87	−16.41	4.250	28.7	7.745	14.445	12.864	316.3	178.8
Pgt	4068703922140186496	17 51 10.85195 −23 04 41.39822	4.2	30.682	0.11	−2.42		28.2		14.230	0	−23.1	16.2
J430295	2043-06-21 09:48:04.60	17 51 01.21039 −23 04 27.67357	2.7	14.011	179.88	−16.40	4.250	41.0	9.607	14.506	13.425	211.9	178.5
Pgt	4068704059580091904	17 51 01.21246 −23 04 41.68484	1.6	43.190	0.13	−2.42		40.5	0.231	14.291	0	−23.1	12.9
J430296	2043-06-21 10:56:35.00	17 50 59.62491 −23 04 25.00832	4.3	16.721	179.89	−16.40	4.250	50.0	9.260	14.971	13.576	194.7	178.5
Pgt	4068704059579262336	17 50 59.62734 −23 04 41.72911	2.6	51.543	0.13	−2.42		49.5	0.515	14.756	0	−23.1	12.4
J430297	2043-06-21 15:13:06.64	17 50 53.69186 −23 04 39.70442	2.1	2.183	179.89	−16.40	4.250	6.4	8.199	12.311	11.219	130.4	178.3
Pgt	4068704093939058048	17 50 53.69216 −23 04 41.88772	1.2	6.730	0.14	−2.42		5.9	0.473	12.096	0	−23.1	10.5
J430298	2043-06-21 20:35:14.33	17 50 46.24312 −23 05 05.18270	3.1	23.112	359.90	−16.40	4.250	−85.1	9.999	14.891	13.651	49.6	178.1
Pgt	4068704433123724544	17 50 46.24027 −23 04 42.07101	1.9	71.243	0.16	−2.42		−85.5	0.250	14.675	0	−23.1	8.3
J430299	2043-06-21 20:58:17.17	17 50 45.70508 −23 04 24.99018	3.0	17.093	179.90	−16.40	4.250	51.3	9.174	14.492	13.173	43.8	178.0
Pgt	4068704506256037120	17 50 45.70717 −23 04 42.08346	1.8	52.691	0.16	−2.42		50.8	0.425	14.277	0	−23.1	8.1
J430300*	2043-06-22 05:26:50.52	17 50 33.94816 −23 05 00.78326	12.9	18.448	359.92	−16.39	4.250	−55.9	7.015	14.247	12.551	276.3	177.7
Pgt	4068704574936508032	17 50 33.94627 −23 04 42.33523	8.1	56.868	0.18	−2.42		−56.4		14.031	0	−23.1	5.6
J430301	2043-06-22 09:47:04.72	17 50 27.93223 −23 05 04.24070	2.1	21.793	359.93	−16.39	4.250	−71.9	9.752	12.363	11.550	211.0	177.5
Pgt	4068681171574198272	17 50 27.93022 −23 04 42.44725	1.3	67.181	0.19	−2.42		−72.3	0.175	12.146	0	−23.1	5.3
J430302	2043-06-22 11:38:24.91	17 50 25.35833 −23 04 58.58224	2.5	16.091	359.93	−16.39	4.250	−47.3	9.220	13.365	12.256	183.1	177.4
Pgt	4068684096565683968	17 50 25.35691 −23 04 42.49169	1.5	49.601	0.19	−2.42		−47.9	0.292	13.148	0	−23.1	5.5
J430303	2043-06-22 17:04:02.12	17 50 17.83463 −23 05 06.06828	6.0	23.459	359.94	−16.38	4.250		8.130	14.222	12.729	101.4	177.2
Pt	4068684062206060160	17 50 17.83285 −23 04 42.60964	3.7	72.316	0.21	−2.42				14.005	0	−23.1	6.7
J430304	2043-06-22 17:04:42.14	17 50 17.81797 −23 04 49.59438	3.6	6.985	359.94	−16.38	4.250	−19.5	9.347	14.727	13.407	101.3	177.2
Pgt	4068684268364510848	17 50 17.81744 −23 04 42.60986	2.2	21.531	0.21	−2.42		−20.1	0.480	14.511	0	−23.1	6.7
J430305	2043-06-22 17:22:40.33	17 50 17.40075 −23 04 22.05381	6.3	20.562	179.94	−16.38	4.250	65.5	8.344	14.626	13.119	96.8	177.1
Pgt	4068684263978012416	17 50 17.40230 −23 04 42.61584	3.9	63.387	0.21	−2.42		65.0		14.409	0	−23.1	6.8
J430306	2043-06-22 20:36:39.33	17 50 12.92204 −23 04 50.70966	2.9	8.033	359.95	−16.38	4.250	−22.6	9.793	14.580	13.361	48.1	177.0
Pgt	4068684302724337152	17 50 12.92149 −23 04 42.67696	1.8	24.763	0.22	−2.42		−23.1	0.298	14.363	0	−23.1	8.0
J430307	2043-06-23 21:53:20.40	17 49 37.92788 −23 05 07.29536	2.7	24.359	359.99	−16.34	4.251		9.167	14.278	12.999	27.7	175.9
Pt	4068870979120813824	17 49 37.92764 −23 04 42.93680	1.6	75.101	0.28	−2.42			0.405	14.058	0	−23.1	19.7
J430308	2043-06-24 03:57:18.22	17 49 29.54258 −23 04 59.09535	8.7	16.153	0.00	−16.33	4.251	−47.5	7.438	14.793	13.094	296.5	175.6
Pgt	4068871215445201920	17 49 29.54264 −23 04 42.94255	5.2	49.804	0.29	−2.42		−48.1	1.058	14.573	0	−23.1	22.8
J430309	2043-06-24 07:10:25.11	17 49 25.09621 −23 04 26.27614	2.0	16.661	180.01	−16.33	4.251	49.9	9.790	13.341	12.331	248.0	175.4
Pgt	4068871597596383744	17 49 25.09604 −23 04 42.93676	1.2	51.371	0.30	−2.42		49.3	0.194	13.121	0	−23.1	24.4
J430310	2043-06-24 15:01:05.77	17 49 14.26537 −23 04 51.93830	2.2	9.041	0.02	−16.31	4.252	−25.5	9.952	13.703	12.589	130.0	175.1
Pgt	4068871735035515136	17 49 14.26563 −23 04 42.89686	1.3	27.880	0.32	−2.42		−26.1	0.176	13.482	0	−23.1	28.5
J430311	2043-06-24 17:27:47.49	17 49 10.89240 −23 04 38.52467	5.2	4.352	180.03	−16.31	4.252	12.7	8.491	14.474	13.000	93.2	175.0
Pgt	4068871700675865344	17 49 10.89225 −23 04 42.87696	3.1	13.421	0.33	−2.42		12.0	0.985	14.252	0	−23.1	29.7

Table 8 *continued on next page*

Table 8 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430312	2043-06-24 19:09:27.02	17 49 08.55580 −23 04 23.98428	3.0	18.877	180.03	−16.30	4.252	58.1	9.913	14.886	13.643	67.7	174.9
Pgt	4068871769395413504	17 49 08.55511 −23 04 42.86109	1.8	58.210	0.33	−2.42		57.6	0.302	14.664	0	−23.1	30.6
J430313	2043-06-24 19:39:02.06	17 49 07.87587 −23 04 21.60187	4.5	21.254	180.03	−16.30	4.252	69.2	8.554	14.358	12.923	60.3	174.9
Pgt	4068871769395436032	17 49 07.87506 −23 04 42.85616	2.7	65.542	0.33	−2.42		68.6	0.730	14.136	0	−23.1	30.9
J430314	2043-06-24 20:06:04.05	17 49 07.25366 −23 04 43.63364	3.0	0.782	0.03	−16.30	4.252	−1.9	8.293	13.815	12.465	53.5	174.9
Pgt	4068871769395409536	17 49 07.25369 −23 04 42.85152	1.7	2.412	0.33	−2.42		−2.6	0.786	13.593	0	−23.1	31.1
J430315	2043-06-24 20:38:29.08	17 49 06.50954 −23 04 19.49318	4.2	23.353	180.03	−16.30	4.252		8.695	14.470	13.058	45.4	174.8
Pt	4068874719981673472	17 49 06.50860 −23 04 42.84580	2.6	72.013	0.34	−2.42			0.676	14.248	0	−23.1	31.4
J430316	2043-06-24 22:36:45.42	17 49 03.79147 −23 04 23.85854	3.6	18.965	180.04	−16.30	4.252	58.5	9.057	14.597	13.215	15.7	174.8
Pgt	4068868848814481664	17 49 03.79062 −23 04 42.82349	2.1	58.484	0.34	−2.42		57.9	0.515	14.375	0	−23.1	32.4
J430317	2043-06-24 23:13:46.78	17 49 02.94032 −23 04 34.81183	8.3	8.004	180.04	−16.30	4.252	23.1	7.353	14.528	12.889	6.5	174.7
Pgt	4068868848761154816	17 49 02.93995 −23 04 42.81604	4.8	24.684	0.34	−2.42		22.4		14.305	0	−23.1	32.7
J430318	2043-06-25 08:12:18.05	17 48 50.57438 −23 04 34.00532	3.1	8.677	180.05	−16.28	4.252	25.1	9.941	14.874	13.642	231.4	174.3
Pgt	4068868951893922944	17 48 50.57381 −23 04 42.68261	1.8	26.762	0.36	−2.42		24.4	0.287	14.651	0	−23.1	37.4
J430319	2043-06-25 13:08:19.83	17 48 43.78282 −23 04 36.59893	4.1	5.991	180.06	−16.27	4.253	17.3	9.280	14.839	13.428	157.2	174.1
Pgt	4068869394222219776	17 48 43.78236 −23 04 42.58959	2.5	18.477	0.38	−2.42		16.6		14.614	0	−23.1	40.0
J430320	2043-06-25 13:27:12.92	17 48 43.35059 −23 04 25.50133	6.6	17.082	180.06	−16.27	4.253	51.4	8.620	14.974	13.434	152.4	174.1
Pgt	4068869398570671744	17 48 43.34927 −23 04 42.58319	3.5	52.686	0.38	−2.42		50.8		14.750	0	−23.1	40.2
J430321	2043-06-25 15:44:54.36	17 48 40.19332 −23 04 28.88968	4.5	13.645	180.07	−16.26	4.253	40.0	8.519	14.267	12.811	117.9	174.0
Pgt	4068869394265357696	17 48 40.19220 −23 04 42.53482	2.6	42.087	0.38	−2.42		39.3		14.043	0	−23.1	41.4
J430322	2043-06-25 16:06:38.29	17 48 39.69321 −23 04 52.04256	2.5	9.516	0.07	−16.26	4.253	−26.8	9.658	14.155	12.958	112.4	174.0
Pgt	4068869359862458624	17 48 39.69401 −23 04 42.52691	1.5	29.350	0.38	−2.42		−27.5	0.289	13.930	0	−23.1	41.6
J430323	2043-06-25 17:05:31.92	17 48 38.34305 −23 04 54.15374	3.0	11.649	0.07	−16.26	4.253	−33.2	8.914	14.123	12.783	97.7	173.9
Pgt	4068869364210987008	17 48 38.34406 −23 04 42.50512	1.8	35.929	0.39	−2.42		−33.9	0.489	13.899	0	−23.1	42.1
J430324	2043-06-25 18:48:04.91	17 48 35.99349 −23 04 47.40472	3.0	4.939	0.07	−16.26	4.253	−13.6	9.849	14.815	13.553	72.0	173.8
Pgt	4068869428581923968	17 48 35.99394 −23 04 42.46587	1.9	15.234	0.39	−2.42		−14.3	0.331	14.589	0	−23.1	43.0
J430325	2043-06-25 20:30:00.19	17 48 33.65840 −23 04 47.18224	4.6	4.757	0.07	−16.25	4.253	−13.1	9.032	14.700	13.288	46.4	173.8
Pgt	4068869329851348480	17 48 33.65885 −23 04 42.42523	2.7	14.673	0.39	−2.42		−13.8		14.475	0	−23.1	44.0
J430326	2043-06-25 21:56:28.62	17 48 31.68001 −23 04 23.11461	4.3	19.275	180.08	−16.25	4.253	59.8	9.713	14.926	13.572	24.7	173.7
Pgt	4068869531660391296	17 48 31.67818 −23 04 42.38948	2.8	59.456	0.40	−2.42		59.2		14.700	0	−23.1	44.7
J430327	2043-06-25 22:13:26.81	17 48 31.29144 −23 04 22.59729	2.8	19.785	180.08	−16.25	4.253	62.0	8.248	11.550	10.609	20.5	173.7
Pgt	4068869536009863168	17 48 31.28954 −23 04 42.38233	1.8	61.030	0.40	−2.42		61.4	0.397	11.324	0	−23.1	44.9
J430328	2043-06-25 22:13:37.94	17 48 31.28378 −23 04 57.89181	4.2	15.510	0.08	−16.25	4.253	−45.4	9.238	14.750	13.352	20.4	173.7
Pgt	4068869531661127040	17 48 31.28529 −23 04 42.38225	2.6	47.841	0.40	−2.42		−46.0	0.458	14.524	0	−23.1	44.9
J430329	2043-06-26 05:35:34.13	17 48 21.17185 −23 04 32.17458	2.4	10.006	180.09	−16.23	4.253	29.0	8.684	13.797	12.491	269.6	173.4
Pgt	4068879843936660480	17 48 21.17072 −23 04 42.18010	1.4	30.866	0.42	−2.42		28.3	0.427	13.570	0	−23.1	48.8
J430330	2043-06-26 06:46:25.14	17 48 19.55126 −23 04 34.28940	2.5	7.855	180.09	−16.23	4.254	22.7	8.999	13.904	12.659	251.8	173.3
Pgt	4068879843936684544	17 48 19.55036 −23 04 42.14486	1.6	24.234	0.42	−2.42		22.0	0.372	13.677	0	−23.1	49.4
J430331	2043-06-26 17:58:27.79	17 48 04.19360 −23 05 05.43395	2.3	23.662	0.11	−16.20	4.254		7.768	11.785	10.702	83.3	172.8
Pt	4068879637779780736	17 48 04.19694 −23 04 41.77164	1.4	73.010	0.45	−2.42			0.616	11.556	0	−23.1	55.5
J430332	2043-06-26 22:08:14.85	17 47 58.50089 −23 04 22.43798	3.3	19.177	180.12	−16.19	4.255	59.4	9.983	14.923	13.632	20.6	172.6
Pgt	4068880393694094464	17 47 58.49806 −23 04 41.61517	2.0	59.175	0.46	−2.42		58.8	0.271	14.693	0	−23.1	57.7
J430333	2043-06-26 22:13:06.20	17 47 58.38936 −23 04 27.83592	2.8	13.776	180.12	−16.19	4.255	40.4	9.282	14.384	13.105	19.4	172.6
Pgt	4068880393694091264	17 47 58.38732 −23 04 41.61204	1.7	42.509	0.46	−2.42		39.7	0.340	14.154	0	−23.1	57.8
J430334	2043-06-26 23:27:41.70	17 47 56.68380 −23 04 58.27094	3.0	16.708	0.12	−16.18	4.255	−49.4	9.950	14.507	13.315	0.7	172.6
Pgt	4068880359334345344	17 47 56.68635 −23 04 41.56342	1.8	51.555	0.46	−2.42		−50.1	0.232	14.277	0	−23.1	58.5
J430335	2043-06-27 09:32:00.12	17 47 42.91938 −23 04 47.69136	2.4	6.553	0.14	−16.15	4.255	−18.2	9.254	14.057	12.831	209.2	172.1
Pgt	4068786724814004224	17 47 42.92051 −23 04 41.13879	1.4	20.223	0.49	−2.42		−19.0	0.348	13.825	0	−23.1	64.0
J430336	2043-06-27 17:18:38.90	17 47 32.30733 −23 04 53.04764	2.9	12.274	0.15	−16.13	4.256	−35.1	8.997	14.383	12.994	92.1	171.8
Pgt	4068789610919233024	17 47 32.30965 −23 04 40.77394	1.8	37.885	0.51	−2.42		−35.8		14.149	0	−23.1	68.2

Table 8 *continued on next page*

Table 8 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430337	2043-06-27 19:50:08.68	17 47 28.87249 −23 04 20.76792	2.5	19.881	180.15	−16.12	4.256	62.5	9.759	14.502	13.248	54.2	171.6
Pgt	4068789821453703296	17 47 28.86866 −23 04 40.64861	1.4	61.368	0.51	−2.42		61.9	0.295	14.268	0	−23.1	69.6
J430338	2043-06-27 21:23:20.54	17 47 26.75103 −23 04 49.34771	3.3	8.778	0.16	−16.12	4.256	−24.7	9.260	14.650	13.250	30.8	171.6
Pgt	4068789782776086912	17 47 26.75277 −23 04 40.56983	2.0	27.096	0.52	−2.42		−25.4	0.408	14.416	0	−23.1	70.5
J430339	2043-06-27 22:25:41.69	17 47 25.33650 −23 04 45.90459	2.9	5.388	0.16	−16.11	4.256	−14.9	4.005	8.936	7.611	15.1	171.5
Pgt	4068789787093980672	17 47 25.33758 −23 04 40.51642	1.7	16.633	0.52	−2.42		−15.7	5.263	8.701	0	−23.1	71.1
J430340	2043-06-28 03:07:45.70	17 47 18.93661 −23 04 54.84845	2.0	14.581	0.17	−16.10	4.257	−42.3	9.242	13.816	12.657	304.4	171.3
Pgt	4068789477856396416	17 47 18.93967 −23 04 40.26766	1.2	45.014	0.53	−2.42		−43.0		13.581	0	−23.1	73.7
J430341	2043-06-28 10:05:19.45	17 47 09.48559 −23 04 18.03997	2.3	21.838	180.18	−16.07	4.257	73.0	8.948	13.986	12.677	199.7	171.0
Pgt	4068790474287798144	17 47 09.48075 −23 04 39.87808	1.4	67.429	0.55	−2.42		72.3	0.450	13.749	0	−23.1	77.6
J430342	2043-06-28 12:57:52.45	17 47 05.57487 −23 04 46.07168	2.5	6.362	0.18	−16.06	4.257	−17.7	9.830	14.747	13.443	156.4	170.9
Pgt	4068790336848885760	17 47 05.57633 −23 04 39.70974	1.5	19.645	0.55	−2.42		−18.5	0.249	14.509	0	−23.1	79.2
J430343	2043-06-28 13:48:02.87	17 47 04.44497 −23 04 24.53232	1.8	15.128	180.18	−16.06	4.258	44.8	9.155	13.231	12.146	143.8	170.8
Pgt	4068790405568420864	17 47 04.44149 −23 04 39.66000	1.1	46.713	0.56	−2.42		44.1		12.993	0	−23.1	79.7
J430344	2043-06-28 15:50:22.75	17 47 01.67270 −23 04 51.33863	2.6	11.801	0.19	−16.05	4.258	−33.6	9.304	14.511	13.163	113.2	170.7
Pgt	4068790405568436992	17 47 01.67548 −23 04 39.53720	1.6	36.443	0.56	−2.42		−34.4		14.273	0	−23.1	80.8
J430345	2043-06-28 20:40:50.74	17 46 55.11885 −23 04 15.36524	2.2	23.872	180.19	−16.04	4.258		9.250	14.360	13.000	40.3	170.5
P	4068835927846581760	17 46 55.11305 −23 04 39.23722	1.3	73.725	0.57	−2.42			0.401	14.120	0	−23.1	83.5
J430346	2043-06-29 00:11:51.17	17 46 50.35530 −23 04 20.10381	2.2	18.908	180.20	−16.03	4.258	58.5	9.997	14.256	13.130	347.4	170.4
Pgt	4068835897878219904	17 46 50.35057 −23 04 39.01197	1.3	58.399	0.58	−2.42		57.7	0.214	14.015	0	−23.1	85.5
J430347	2043-06-29 01:13:40.97	17 46 48.95549 −23 04 40.30556	4.5	1.361	0.20	−16.02	4.259	−3.4	8.705	14.428	12.976	331.9	170.3
Pgt	4068835794799000192	17 46 48.95583 −23 04 38.94481	2.7	4.203	0.58	−2.42		−4.3		14.188	0	−23.1	86.1
J430348	2043-06-29 02:09:20.70	17 46 47.69794 −23 04 48.99273	3.0	10.109	0.20	−16.02	4.259	−28.6	7.112	12.222	10.884	317.9	170.3
Pgt	4068835794799011712	17 46 47.70054 −23 04 38.88390	1.8	31.223	0.59	−2.42		−29.4	1.078	11.981	0	−23.1	86.6
J430349	2043-06-29 02:47:32.44	17 46 46.83876 −23 04 40.99152	2.3	2.150	0.20	−16.02	4.259	−5.6	9.875	14.590	13.376	308.4	170.3
Pgt	4068836000957470464	17 46 46.83932 −23 04 38.84186	1.4	6.640	0.59	−2.42		−6.5		14.349	0	−23.1	87.0
J430350	2043-06-29 03:46:24.41	17 46 45.50880 −23 04 52.24098	1.8	13.464	0.21	−16.01	4.259	−38.8	8.567	13.498	12.232	293.6	170.2
Pgt	4068835996560459392	17 46 45.51230 −23 04 38.77668	1.1	41.589	0.59	−2.42		−39.5	0.481	13.256	0	−23.1	87.5
J430351	2043-06-29 04:38:06.05	17 46 44.35107 −23 04 23.95897	1.8	14.760	180.21	−16.01	4.259	43.7	9.681	13.435	12.397	280.6	170.2
Pgt	4068835996560483328	17 46 44.34724 −23 04 38.71906	1.1	45.592	0.59	−2.42		42.9	0.211	13.193	0	−23.1	88.0
J430352*	2043-06-29 06:54:13.86	17 46 41.28226 −23 04 31.64530	7.4	6.920	180.21	−16.00	4.259	20.1	9.319	14.156	12.903	246.5	170.1
Pgt	4068836035317332864	17 46 41.28044 −23 04 38.56558	4.7	21.377	0.60	−2.42		19.2	0.429	13.914	0	−23.1	89.3
J430353	2043-06-29 07:33:05.51	17 46 40.40252 −23 04 48.90611	2.4	10.385	0.21	−16.00	4.259	−29.4	9.893	14.613	13.401	236.7	170.0
Pgt	4068836030919259904	17 46 40.40530 −23 04 38.52131	1.5	32.079	0.60	−2.42		−30.2	0.275	14.370	0	−23.1	89.7
J430354	2043-06-29 08:30:32.53	17 46 39.11228 −23 04 36.66305	3.5	1.792	180.21	−15.99	4.259	5.5	9.135	14.603	13.216	222.3	170.0
Pgt	4068836030919278208	17 46 39.11180 −23 04 38.45549	2.1	5.537	0.60	−2.42		4.6	0.505	14.360	0	−23.1	90.2
J430355	2043-06-29 14:00:25.06	17 46 31.69782 −23 04 13.89045	4.8	24.179	180.22	−15.97	4.260		8.775	14.767	13.259	139.6	169.7
P	4068836447634384768	17 46 31.69113 −23 04 38.06896	3.0	74.700	0.61	−2.42				14.523	0	−23.1	93.4
J430356	2043-06-29 14:23:03.74	17 46 31.18360 −23 04 32.83781	2.1	5.204	180.22	−15.97	4.260	15.2	9.839	14.137	12.902	133.9	169.7
Pgt	4068836447634369152	17 46 31.18214 −23 04 38.04189	1.2	16.078	0.61	−2.42		14.3	0.228	13.893	0	−23.1	93.6
J430357	2043-06-29 20:09:29.40	17 46 23.40048 −23 04 43.05061	2.5	5.431	0.23	−15.95	4.260	−15.0	9.897	14.528	13.311	47.1	169.5
Pgt	4068836516353974400	17 46 23.40206 −23 04 37.61920	1.5	16.783	0.63	−2.42		−15.9	0.255	14.282	0	−23.1	96.9
J430358	2043-06-29 20:41:30.32	17 46 22.68100 −23 04 46.76168	2.2	9.182	0.23	−15.95	4.260	−25.8	9.561	13.112	12.100	39.0	169.4
Pgt	4068836516353982848	17 46 22.68369 −23 04 37.57933	1.2	28.374	0.63	−2.42		−26.7	0.234	12.866	0	−23.1	97.2

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

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

Table 9. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K ≤ 10 (part 9 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430359	2043-06-29 22:00:02.75	17 46 20.92662 −23 04 21.15689	6.1	16.324	180.23	−15.94	4.261	48.9	7.372	14.133	12.508	19.3	169.4
Pgt	4068836580760289408	17 46 20.92184 −23 04 37.48093	3.6	50.443	0.63	−2.42		48.1		13.887	0	−23.1	98.0
J430360	2043-06-30 04:20:23.78	17 46 12.39771 −23 04 40.74284	2.8	3.750	0.24	−15.91	4.261	−10.2	9.671	14.772	13.465	283.9	169.1
Pgt	4068833625738516608	17 46 12.39887 −23 04 36.99280	1.7	11.590	0.65	−2.42		−11.1	0.384	14.524	0	−23.1	101.7
J430361	2043-06-30 13:05:39.09	17 46 00.64902 −23 04 51.91225	6.0	15.625	0.26	−15.88	4.262	−45.8	8.053	14.442	12.902	152.2	168.7
Pgt	4068833763177452288	17 46 00.65411 −23 04 36.28754	3.6	48.300	0.67	−2.42		−46.6		14.191	0	−23.1	106.8
J430362	2043-06-30 19:31:48.96	17 45 52.04312 −23 04 22.38554	3.4	13.361	180.26	−15.85	4.263	39.3	9.596	14.682	13.368	55.4	168.4
Pgt	4068834209937559424	17 45 52.03865 −23 04 35.74658	2.1	41.310	0.69	−2.42		38.4	0.354	14.430	0	−23.1	110.5
J430363	2043-06-30 22:31:12.04	17 45 48.04011 −23 04 41.83692	4.7	6.348	0.27	−15.84	4.263	−17.6	8.880	14.638	13.197	10.4	168.3
Pgt	4068834244212893952	17 45 48.04228 −23 04 35.48896	2.9	19.628	0.69	−2.42		−18.5	0.637	14.384	0	−23.1	112.3
J430364	2043-06-30 23:28:36.09	17 45 46.76735 −23 04 26.46652	2.2	8.939	180.27	−15.83	4.263	26.0	8.895	13.349	12.182	356.0	168.2
Pgt	4068834244213818368	17 45 46.76429 −23 04 35.40568	1.3	27.641	0.69	−2.42		25.1	0.334	13.095	0	−23.1	112.9
J430365	2043-07-01 02:32:57.46	17 45 42.66509 −23 04 27.21912	6.9	7.916	180.28	−15.82	4.264	23.0	8.322	14.661	13.117	309.8	168.1
Pgt	4068834351637954944	17 45 42.66234 −23 04 35.13549	4.4	24.481	0.70	−2.42		22.1	0.874	14.407	0	−23.1	114.7
J430366	2043-07-01 07:24:04.11	17 45 36.18861 −23 04 47.99012	5.5	13.290	0.28	−15.79	4.264	−38.2	9.048	14.952	13.470	236.8	167.9
Pgt	4068832908579260672	17 45 36.19339 −23 04 34.70036	3.5	41.103	0.71	−2.42		−39.1	0.539	14.695	0	−23.1	117.6
J430367	2043-07-01 07:26:16.44	17 45 36.14976 −23 04 19.68008	6.6	15.017	180.28	−15.79	4.264	44.6	8.450	14.728	13.204	236.2	167.9
Pgt	4068834381651929216	17 45 36.14442 −23 04 34.69702	4.1	46.445	0.71	−2.42		43.7		14.471	0	−23.1	117.6
J430368	2043-07-01 22:06:16.27	17 45 16.65314 −23 04 32.64598	3.3	0.673	180.31	−15.72	4.266	2.4	9.955	14.893	13.633	15.5	167.2
Pgt	4068844831413974912	17 45 16.65288 −23 04 33.31877	2.1	2.082	0.75	−2.42		1.4		14.631	0	−23.1	126.3
J430369	2043-07-01 22:27:50.13	17 45 16.16685 −23 04 57.96386	3.0	24.680	0.31	−15.72	4.266		9.955	14.585	13.391	10.1	167.2
Pt	4068844453456826112	17 45 16.17644 −23 04 33.28382	1.9	76.364	0.75	−2.42			0.248	14.323	0	−23.1	126.5
J430370	2043-07-02 05:32:33.07	17 45 06.79869 −23 04 47.13080	4.1	14.547	0.32	−15.69	4.267	−42.2	8.859	14.322	12.942	263.6	166.9
Pgt	4068845243731008128	17 45 06.80451 −23 04 32.58446	2.4	45.019	0.77	−2.42		−43.1	0.576	14.058	0	−23.1	130.8
J430371	2043-07-02 05:53:06.47	17 45 06.35241 −23 04 30.18883	6.5	2.361	180.32	−15.69	4.267	7.2	8.050	14.500	12.957	258.5	166.9
Pgt	4068845239329259264	17 45 06.35147 −23 04 32.55007	3.9	7.308	0.77	−2.42		6.2		14.236	0	−23.1	131.0
J430372	2043-07-02 08:18:26.44	17 45 03.14642 −23 04 41.29879	5.1	8.993	0.32	−15.67	4.267	−25.2	8.454	14.228	12.795	222.0	166.8
Pgt	4068845140651868928	17 45 03.15006 −23 04 32.30564	3.0	27.835	0.77	−2.42		−26.2	0.769	13.964	0	−23.1	132.5
J430373	2043-07-02 08:58:48.03	17 45 02.25403 −23 04 50.56714	3.5	18.330	0.32	−15.67	4.268	−55.5	7.263	12.483	11.134	211.9	166.7
Pgt	4068845136250849408	17 45 02.26148 −23 04 32.23733	2.2	56.734	0.77	−2.42		−56.4	0.955	12.219	0	−23.1	132.9
J430374	2043-07-02 10:33:12.48	17 45 00.18304 −23 04 33.90295	4.4	1.826	0.32	−15.66	4.268	−4.7	9.116	14.706	13.282	188.2	166.7
Pgt	4068845346810361856	17 45 00.18379 −23 04 32.07684	2.7	5.652	0.78	−2.42		−5.7	0.566	14.441	0	−23.1	133.8
J430375	2043-07-02 11:23:28.03	17 44 59.07003 −23 04 51.78645	3.3	19.796	0.32	−15.66	4.268	−61.6	9.506	14.710	13.374	175.6	166.6
Pgt	4068845312450619392	17 44 59.07816 −23 04 31.99099	1.9	61.275	0.78	−2.42		−62.5	0.443	14.444	0	−23.1	134.3
J430376	2043-07-02 14:54:14.22	17 44 54.43996 −23 04 44.10550	2.1	12.478	0.33	−15.64	4.268	−35.7	8.476	13.413	12.160	122.8	166.5
Pgt	4068845376768146176	17 44 54.44516 −23 04 31.62795	1.2	38.627	0.79	−2.42		−36.7	0.514	13.146	0	−23.1	136.5
J430377	2043-07-02 18:46:31.98	17 44 49.34725 −23 04 27.82831	8.4	3.394	180.33	−15.62	4.269	10.2	7.043	14.170	12.443	64.5	166.3
Pgt	4068824864004374784	17 44 49.34582 −23 04 31.22221	5.0	10.508	0.80	−2.42		9.1		13.901	0	−23.1	138.8
J430378*	2043-07-02 19:48:56.34	17 44 47.97085 −23 04 45.89574	6.4	14.784	0.34	−15.62	4.269	−43.0	9.015	14.806	13.273	48.9	166.3
Pgt	4068824834036838400	17 44 47.97713 −23 04 31.11221	4.0	45.773	0.80	−2.42		−43.9	0.543	14.537	0	−23.1	139.4
J430379	2043-07-02 21:36:52.20	17 44 45.61961 −23 04 11.18514	2.3	19.736	180.33	−15.61	4.269	62.2	8.229	13.457	12.134	21.8	166.2
Pgt	4068824898364150400	17 44 45.61125 −23 04 30.92099	1.5	61.110	0.80	−2.42		61.4	0.651	13.188	0	−23.1	140.5
J430380	2043-07-03 00:49:39.00	17 44 41.37893 −23 04 54.83004	2.0	24.254	0.34	−15.59	4.270		9.810	13.494	12.455	333.4	166.0
Pt	4068824795285727104	17 44 41.38947 −23 04 30.57635	1.2	75.107	0.81	−2.42			0.190	13.224	0	−23.1	142.5
J430381	2043-07-03 02:51:17.03	17 44 38.73183 −23 04 22.51642	9.1	7.841	180.34	−15.58	4.270	22.9	7.127	14.487	12.853	302.9	165.9
Pgt	4068825001472551552	17 44 38.72843 −23 04 30.35686	5.6	24.281	0.82	−2.42		21.9		14.216	0	−23.1	143.7
J430382	2043-07-03 06:09:20.68	17 44 34.40399 −23 04 20.53206	3.4	9.464	180.35	−15.56	4.270	27.7	9.721	14.958	13.631	253.3	165.8
Pgt	4068825035803082240	17 44 34.39983 −23 04 29.99610	2.1	29.313	0.82	−2.42		26.6	0.399	14.686	0	−23.1	145.7

Table 9 *continued on next page*

Table 9 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430383	2043-07-03 07:14:45.41	17 44 32.96529 −23 04 43.80676	2.3	13.931	0.35	−15.55	4.271	−40.3	8.349	13.595	12.261	236.9	165.8
Pgt	4068824662238370432	17 44 32.97148 −23 04 29.87604	1.4	43.149	0.83	−2.41		−41.2	0.609	13.322	0	−23.1	146.4
J430384	2043-07-03 11:27:01.03	17 44 27.46872 −23 04 29.50569	7.2	0.097	0.35	−15.53	4.271	0.3	8.176	14.750	13.185	173.6	165.6
Pgt	4068825418152707712	17 44 27.46876 −23 04 29.40883	4.3	0.300	0.84	−2.41		−0.8		14.475	0	−23.1	148.9
J430385	2043-07-03 14:48:26.12	17 44 23.08431 −23 04 23.09675	1.8	5.934	180.36	−15.51	4.272	17.4	9.398	13.078	12.052	123.1	165.4
Pgt	4068825452512514432	17 44 23.08161 −23 04 29.03101	1.1	18.386	0.84	−2.41		16.4	0.241	12.802	0	−23.1	151.0
J430386	2043-07-03 18:03:25.38	17 44 18.84973 −23 04 07.51007	3.9	21.152	180.36	−15.49	4.272	69.4	7.637	13.067	12.050	74.2	165.3
Pgt	4068825551199204736	17 44 18.84005 −23 04 28.66125	2.5	65.538	0.85	−2.41		68.5		12.790	0	−23.1	152.9
J430387	2043-07-03 19:10:30.64	17 44 17.38321 −23 04 25.80860	4.3	2.725	180.37	−15.49	4.272	8.3	9.494	14.965	13.567	57.4	165.2
Pgt	4068825551199998720	17 44 17.38195 −23 04 28.53314	2.6	8.442	0.85	−2.41		7.2	0.432	14.688	0	−23.1	153.6
J430388	2043-07-03 19:34:01.58	17 44 16.87897 −23 04 11.19957	7.4	17.289	180.36	−15.48	4.272	52.6	6.933	13.820	12.233	51.5	165.2
Pgt	4068825624259848576	17 44 16.87101 −23 04 28.48812	4.4	53.572	0.86	−2.41		51.6		13.542	0	−23.1	153.9
J430389	2043-07-03 20:42:01.27	17 44 15.39020 −23 04 36.69278	7.2	8.335	0.37	−15.48	4.273	−23.3	8.255	14.618	13.071	34.4	165.1
Pgt	4068825589951568640	17 44 15.39409 −23 04 28.35765	4.0	25.829	0.86	−2.41		−24.4		14.340	0	−23.1	154.5
J430390	2043-07-03 21:45:48.92	17 44 14.01098 −23 04 23.99765	4.4	4.237	180.37	−15.47	4.273	12.6	8.129	13.954	12.512	18.4	165.1
Pgt	4068825589951601792	17 44 14.00901 −23 04 28.23481	2.7	13.131	0.86	−2.41		11.5	0.961	13.676	0	−23.1	155.2
J430391	2043-07-04 03:58:31.68	17 44 05.93348 −23 04 17.30214	6.2	10.207	180.38	−15.44	4.274	29.9	8.353	14.954	13.412	285.0	164.8
Pgt	4116862600040359680	17 44 05.92864 −23 04 27.50910	3.6	31.638	0.88	−2.41		28.8	0.897	14.672	0	−23.1	158.9
J430392	2043-07-04 10:01:41.16	17 43 58.07890 −23 04 19.21079	6.3	7.579	180.38	−15.40	4.275	22.2	8.627	14.941	13.415	193.9	164.6
Pgt	4116862664457270912	17 43 58.07523 −23 04 26.78916	3.8	23.496	0.89	−2.41		21.1		14.657	0	−23.1	162.5
J430393	2043-07-04 12:10:24.09	17 43 55.29155 −23 04 36.68626	3.4	10.155	0.39	−15.39	4.275	−28.7	9.770	14.723	13.472	161.6	164.5
Pgt	4116862634484382336	17 43 55.29653 −23 04 26.53103	2.1	31.487	0.89	−2.41		−29.8	0.319	14.438	0	−23.1	163.8
J430394	2043-07-04 13:22:08.41	17 43 53.75528 −23 04 13.45500	2.5	12.932	180.39	−15.38	4.275	38.2	9.622	13.991	12.850	143.6	164.4
Pgt	4116862698817019520	17 43 53.74896 −23 04 26.38649	1.6	40.097	0.90	−2.41		37.1	0.285	13.705	0	−23.1	164.5
J430395	2043-07-04 14:33:58.62	17 43 52.19292 −23 04 40.67890	3.2	14.438	0.39	−15.37	4.275	−41.9	8.840	14.866	13.560	125.6	164.3
Pgt	4116862703204760320	17 43 52.20007 −23 04 26.24129	2.1	44.769	0.90	−2.41		−42.9	0.534	14.581	0	−23.1	165.2
J430396	2043-07-04 15:33:03.43	17 43 50.92262 −23 04 34.63449	3.9	8.513	0.39	−15.37	4.276	−23.8	8.924	14.534	13.154	110.8	164.3
Pgt	4116862698817175808	17 43 50.92684 −23 04 26.12152	2.2	26.398	0.90	−2.41		−24.9	0.559	14.248	0	−23.1	165.8
J430397	2043-07-04 16:54:12.39	17 43 49.18052 −23 04 22.67539	3.5	3.281	180.39	−15.36	4.276	9.9	9.940	14.982	13.693	90.4	164.2
Pgt	4116863454758305280	17 43 49.17889 −23 04 25.95649	2.0	10.175	0.91	−2.41		8.7	0.277	14.695	0	−23.1	166.6
J430398	2043-07-04 22:29:13.53	17 43 41.98073 −23 04 11.34754	4.5	13.922	180.40	−15.32	4.277	41.3	7.438	12.951	11.579	6.4	164.0
Pgt	4116863111134040832	17 43 41.97372 −23 04 25.26884	2.6	43.181	0.92	−2.41		40.2	1.039	12.661	0	−23.1	169.7
J430399	2043-07-05 03:50:01.52	17 43 35.08050 −23 04 45.37823	3.4	20.778	0.41	−15.29	4.278	−66.5	9.494	14.831	13.519	286.0	163.8
Pgt	4116863184240436480	17 43 35.09124 −23 04 24.60091	1.8	64.460	0.93	−2.41		−67.5	0.383	14.540	0	−23.1	172.3
J430400	2043-07-05 08:10:36.36	17 43 29.51619 −23 04 17.79051	2.8	6.261	180.41	−15.26	4.278	18.5	7.669	13.047	11.720	220.6	163.6
Pgt	4116863248572832512	17 43 29.51294 −23 04 24.05161	1.7	19.428	0.94	−2.41		17.3	0.879	12.753	0	−23.1	174.0
J430401	2043-07-05 11:04:41.92	17 43 25.80155 −23 04 05.79143	2.1	17.890	180.41	−15.24	4.279	55.0	8.733	12.855	11.749	177.0	163.4
Pgt	4116860332380504192	17 43 25.79221 −23 04 23.68130	1.3	55.518	0.95	−2.41		53.9	0.348	12.560	0	−23.1	174.6
J430402	2043-07-05 21:56:10.31	17 43 11.90079 −23 04 44.01190	2.6	21.740	0.43	−15.18	4.281	−72.3	9.192	14.387	13.110	13.6	162.9
Pgt	4116860435459828224	17 43 11.91263 −23 04 22.27273	1.7	67.493	0.97	−2.41		−73.3	0.430	14.088	0	−23.1	172.3
J430403*	2043-07-06 00:16:41.71	17 43 08.91845 −23 04 39.39006	12.1	17.426	0.43	−15.16	4.281	−52.2	9.991	14.870	13.538	338.4	162.8
Pgt	4116860504091665536	17 43 08.92798 −23 04 21.96437	8.3	54.106	0.98	−2.41		−53.3	0.254	14.569	0	−23.1	171.2
J430404	2043-07-06 02:23:11.85	17 43 06.23791 −23 04 32.75511	2.7	11.070	0.43	−15.15	4.281	−31.4	9.737	14.729	13.488	306.6	162.8
Pgt	4116860882136497664	17 43 06.24399 −23 04 21.68546	1.7	34.374	0.98	−2.41		−32.6	0.307	14.427	0	−23.1	170.1
J430405	2043-07-06 10:13:51.57	17 42 56.27546 −23 04 32.69100	3.3	12.054	0.44	−15.09	4.283	−34.4	8.163	13.776	12.378	188.6	162.4
Pgt	4116861015189821696	17 42 56.28221 −23 04 20.63707	2.0	37.443	1.00	−2.41		−35.6	0.866	13.471	0	−23.1	165.8
J430406	2043-07-06 15:35:11.76	17 42 49.49302 −23 04 38.29108	3.3	18.380	0.45	−15.05	4.284	−55.9	7.671	13.158	11.770	108.0	162.2
Pgt	4116861053935370624	17 42 49.50347 −23 04 19.91188	2.0	57.104	1.01	−2.41		−57.0	0.883	12.849	0	−23.1	162.7
J430407	2043-07-06 16:31:40.72	17 42 48.29983 −23 04 44.34271	3.0	24.560	0.45	−15.05	4.284		9.716	14.754	13.497	93.9	162.1
Pt	4116861053935377792	17 42 48.31386 −23 04 19.78363	1.8	76.307	1.01	−2.41			0.337	14.445	0	−23.1	162.1

Table 9 *continued on next page*

Table 9 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430408	2043-07-06 21:04:59.02	17 42 42.55971 −23 04 29.77274	4.3	10.613	0.45	−15.02	4.285	−30.0	9.288	14.883	13.474	25.3	161.9
Pgt	4116871327420039936	17 42 42.56581 −23 04 19.15981	2.6	32.982	1.03	−2.41		−31.3	0.464	14.572	0	−23.1	159.4
J430409	2043-07-06 21:23:38.57	17 42 42.16433 −23 04 35.67021	4.1	16.554	0.46	−15.01	4.285	−49.1	8.062	13.871	12.433	20.6	161.9
Pgt	4116871327501642240	17 42 42.17388 −23 04 19.11702	2.3	51.443	1.03	−2.41		−50.2	0.901	13.559	0	−23.1	159.3
J430410	2043-07-06 22:42:43.12	17 42 40.52564 −23 03 57.83333	2.6	21.103	180.45	−15.00	4.285	69.5	9.096	14.064	12.801	0.8	161.8
Pgt	4116871391831082624	17 42 40.51358 −23 04 18.93542	1.5	65.584	1.03	−2.41		68.5	0.329	13.752	0	−23.1	158.5
J430411	2043-07-06 23:26:21.80	17 42 39.60941 −23 03 58.37343	3.5	20.462	180.45	−15.00	4.285	66.1	9.637	14.948	13.613	349.9	161.8
Pgt	4116871391831078784	17 42 39.59770 −23 04 18.83499	2.0	63.595	1.03	−2.41		65.1	0.365	14.635	0	−23.1	158.0
J430412	2043-07-07 14:51:53.60	17 42 20.26289 −23 04 07.48057	2.5	9.194	180.47	−14.89	4.288	27.1	8.774	13.967	12.670	117.8	161.1
Pgt	4116871945976194304	17 42 20.25742 −23 04 16.67413	1.4	28.594	1.07	−2.41		25.8	0.491	13.646	0	−23.1	148.9
J430413	2043-07-07 18:05:41.49	17 42 16.22102 −23 04 27.37156	2.9	11.158	0.48	−14.86	4.289	−31.7	9.400	14.623	13.302	69.2	161.0
Pgt	4116871911616485504	17 42 16.22775 −23 04 16.21445	1.7	34.706	1.07	−2.41		−33.0		14.301	0	−23.1	147.0
J430414	2043-07-08 04:05:53.84	17 42 03.80561 −23 03 54.01982	2.1	20.757	180.48	−14.79	4.291	67.8	8.034	11.228	10.295	278.7	160.5
Pgt	4116875003993720320	17 42 03.79297 −23 04 14.77619	1.2	64.595	1.09	−2.41		66.7	0.474	10.900	0	−23.1	141.1
J430415	2043-07-08 07:13:34.52	17 41 59.92477 −23 04 05.13234	2.6	9.190	180.49	−14.76	4.291	27.1	8.467	13.660	12.330	231.6	160.4
Pgt	4116499756909202048	17 41 59.91912 −23 04 14.32210	1.4	28.603	1.10	−2.41		25.8		13.331	0	−23.1	139.3
J430416	2043-07-08 12:07:01.55	17 41 53.87634 −23 04 13.04547	1.9	0.563	180.49	−14.73	4.292	2.3	8.546	13.053	11.887	158.0	160.2
Pgt	4116499928707892992	17 41 53.87599 −23 04 13.60800	1.1	1.751	1.11	−2.41		0.9	0.428	12.720	0	−23.1	136.4
J430417	2043-07-08 16:30:09.03	17 41 48.46624 −23 04 22.01597	3.2	9.053	0.50	−14.69	4.293	−25.4	8.923	14.291	12.938	92.0	160.0
Pgt	4116499898783445632	17 41 48.47195 −23 04 12.96352	1.8	28.189	1.12	−2.41		−26.8	0.518	13.956	0	−23.1	133.9
J430418	2043-07-08 16:52:06.79	17 41 48.03179 −23 03 56.47968	2.4	16.430	180.50	−14.69	4.293	50.0	9.878	14.297	13.145	86.5	160.0
Pgt	4116499898783466624	17 41 48.02150 −23 04 12.90955	1.3	51.162	1.12	−2.41		48.7	0.220	13.962	0	−23.1	133.7
J430419	2043-07-08 16:56:19.64	17 41 47.94837 −23 03 51.63812	3.7	21.262	180.49	−14.69	4.293	70.7	9.701	14.990	13.647	85.5	160.0
Pgt	4116499898698998144	17 41 47.93508 −23 04 12.89919	2.1	66.207	1.12	−2.41		69.6		14.655	0	−23.1	133.6
J430420	2043-07-09 00:33:55.66	17 41 38.56738 −23 04 19.21175	4.5	7.444	0.51	−14.63	4.295	−20.7	9.305	14.963	13.570	330.7	159.6
Pgt	4116500242380899840	17 41 38.57214 −23 04 11.76843	2.7	23.187	1.14	−2.41		−22.1	0.528	14.623	0	−23.1	129.2
J430421	2043-07-09 07:25:32.45	17 41 30.18004 −23 04 19.62160	4.2	8.880	0.51	−14.57	4.296	−24.9	8.735	14.540	13.108	227.5	159.3
Pgt	4116500379819907200	17 41 30.18580 −23 04 10.74171	2.4	27.672	1.15	−2.41		−26.3	0.684	14.196	0	−23.1	125.3
J430422	2043-07-09 08:26:23.04	17 41 28.94669 −23 04 14.21236	2.1	3.623	0.51	−14.57	4.297	−9.6	8.278	12.867	11.719	212.2	159.3
Pgt	4116500375384483840	17 41 28.94904 −23 04 10.58921	1.3	11.291	1.16	−2.41		−11.1	0.547	12.523	0	−23.1	124.7
J430423	2043-07-09 15:35:51.50	17 41 20.24094 −23 04 08.78816	2.2	0.720	180.52	−14.51	4.298	2.8	8.702	11.427	10.596	104.5	159.0
Pgt	4116545872116532864	17 41 20.24047 −23 04 09.50778	1.2	2.243	1.17	−2.41		1.3	0.308	11.079	0	−23.1	120.6
J430424	2043-07-09 19:03:30.22	17 41 16.03854 −23 04 16.63906	5.9	7.657	0.52	−14.48	4.299	−21.3	7.199	14.003	12.436	52.5	158.8
Pgt	4116545940836028928	17 41 16.04360 −23 04 08.98194	3.4	23.875	1.18	−2.41		−22.7		13.653	0	−23.1	118.7
J430425	2043-07-10 23:42:23.49	17 40 41.64934 −23 04 13.25340	2.7	8.691	0.55	−14.24	4.305	−24.3	9.912	14.508	13.311	341.4	157.5
Pgt	4116546589232591616	17 40 41.65535 −23 04 04.56239	1.5	27.140	1.24	−2.41		−25.8	0.241	14.139	0	−23.1	102.9
J430426	2043-07-11 09:19:43.14	17 40 30.25038 −23 04 00.94297	3.1	2.111	180.55	−14.15	4.308	6.9	9.063	14.719	13.389	196.6	157.1
Pgt	4116543913610216320	17 40 30.24890 −23 04 03.05420	1.7	6.596	1.26	−2.41		5.2	0.560	14.343	0	−23.1	97.7
J430427	2043-07-12 02:11:17.57	17 40 10.43341 −23 04 14.53091	3.7	14.141	0.57	−14.00	4.312	−41.1	7.913	13.655	12.249	303.0	156.4
Pgt	4116544257207330304	17 40 10.44355 −23 04 00.39022	2.3	44.223	1.30	−2.40		−42.6	1.000	13.268	0	−23.1	88.7
J430428	2043-07-12 04:29:33.51	17 40 07.73931 −23 04 21.45378	2.1	21.431	0.57	−13.98	4.312	−71.1	9.376	13.781	12.619	268.3	156.3
Pgt	4116544463365771136	17 40 07.75477 −23 04 00.02425	1.3	67.027	1.30	−2.40		−72.4	0.296	13.392	0	−23.1	87.5
J430429*	2043-07-12 14:58:59.52	17 39 55.58201 −23 03 42.31396	7.9	16.040	180.57	−13.88	4.315	49.0	7.126	8.419	7.949	110.5	155.8
Pgt	4116556214399186304	17 39 55.57046 −23 03 58.35306	4.9	50.197	1.32	−2.40		47.5	0.498	8.023	1	−23.1	82.0
J430430	2043-07-12 16:58:08.12	17 39 53.27177 −23 04 01.72865	2.5	3.693	0.58	−13.86	4.315	−9.7	9.337	11.438	10.735	80.6	155.7
Pgt	4116554736930442752	17 39 53.27445 −23 03 58.03586	1.5	11.558	1.33	−2.40		−11.5		11.040	0	−23.1	81.0
J430431	2043-07-12 18:14:35.88	17 39 51.79977 −23 04 01.83046	10.0	3.998	0.58	−13.85	4.316	−10.6	8.284	14.976	13.239	61.4	155.7
Pgt	4116554736930449152	17 39 51.80268 −23 03 57.83217	6.5	12.516	1.33	−2.40		−12.3		14.577	0	−23.1	80.4
J430432	2043-07-12 20:35:13.54	17 39 49.08537 −23 04 16.56508	4.1	19.109	0.58	−13.83	4.316	−59.3	7.869	13.652	12.219	26.1	155.6
Pgt	4116554702570720000	17 39 49.09939 −23 03 57.45730	2.5	59.821	1.34	−2.40		−60.7	1.062	13.252	0	−23.1	79.2

Table 9 *continued on next page*

Table 9 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430433	2043-07-13 03:18:39.12	17 39 41.37292 −23 03 52.48115	3.1	3.900	180.58	−13.77	4.318	12.1	5.488	10.722	9.429	285.0	155.3
Pgt	4116554874369464960	17 39 41.37006 −23 03 56.38046	1.8	12.212	1.35	−2.40		10.3	2.499	10.317	0	−23.1	75.7
J430434	2043-07-13 06:06:53.57	17 39 38.14872 −23 04 08.62647	3.1	12.696	0.58	−13.74	4.319	−36.5	8.199	13.627	12.262	242.8	155.1
Pgt	4116554840009738112	17 39 38.15810 −23 03 55.93088	1.9	39.769	1.36	−2.40		−38.1	0.763	13.219	0	−23.1	74.3
J430435	2043-07-13 13:45:19.00	17 39 29.45324 −23 03 37.87511	4.5	16.831	180.58	−13.67	4.321	51.9	7.347	13.407	11.937	127.8	154.8
Pgt	4116555488404257408	17 39 29.44085 −23 03 54.70485	2.7	52.743	1.37	−2.40		50.4	1.714	12.994	0	−23.1	70.4
J430436	2043-07-13 20:37:37.45	17 39 21.63041 −23 04 12.46065	5.5	18.860	0.59	−13.60	4.323	−58.3	9.300	14.979	13.565	24.4	154.5
Pgt	4116555419684742016	17 39 21.64457 −23 03 53.60124	3.2	59.129	1.39	−2.40		−59.8	0.505	14.560	0	−23.1	66.9
J430437	2043-07-14 00:19:00.18	17 39 17.48074 −23 03 46.54196	2.8	6.467	180.59	−13.56	4.324	19.6	9.621	14.119	12.898	328.9	154.3
Pgt	4116558344703175808	17 39 17.47592 −23 03 53.00842	1.6	20.278	1.39	−2.40		17.8	0.275	13.698	0	−23.1	65.0
J430438	2043-07-14 01:37:56.11	17 39 15.99606 −23 03 48.07993	3.2	4.717	180.59	−13.55	4.324	14.5	9.413	14.469	13.217	309.1	154.3
Pgt	4116558344703183232	17 39 15.99253 −23 03 52.79702	1.8	14.794	1.40	−2.40		12.7	0.345	14.046	0	−23.1	64.4
J430439	2043-07-14 16:01:24.72	17 38 59.87006 −23 03 45.20372	6.2	5.281	180.60	−13.41	4.328	16.2	8.973	14.732	13.261	92.6	153.6
Pgt	4116535078719662208	17 38 59.86607 −23 03 50.48393	3.7	16.575	1.42	−2.40		14.3	0.650	14.298	0	−23.1	57.2
J430440	2043-07-15 00:19:27.61	17 38 50.63849 −23 04 03.17158	5.9	14.022	0.61	−13.32	4.330	−40.8	8.323	14.651	13.129	327.7	153.3
Pgt	4116535495455570048	17 38 50.64922 −23 03 49.15085	3.2	44.035	1.44	−2.40		−42.5	1.147	14.210	0	−23.1	53.0
J430441	2043-07-15 00:47:24.68	17 38 50.15116 −23 03 26.10948	3.0	22.968	180.60	−13.32	4.330		9.946	14.762	13.542	320.7	153.3
Pt	4116535873412717824	17 38 50.13383 −23 03 49.07609	1.6	72.133	1.44	−2.40				14.321	0	−23.1	52.8
J430442	2043-07-15 03:59:16.36	17 38 46.61335 −23 03 32.91074	4.9	15.653	180.60	−13.29	4.331	48.0	8.790	14.778	13.311	272.6	153.1
Pgt	4116535697194964224	17 38 46.60149 −23 03 48.56316	2.7	49.171	1.45	−2.40		46.3	0.697	14.334	0	−23.1	51.2
J430443	2043-07-15 15:15:07.26	17 38 34.22907 −23 03 53.87368	5.1	7.114	0.61	−13.17	4.334	−19.6	8.499	14.499	13.017	103.1	152.6
Pgt	4116723271367355776	17 38 34.23455 −23 03 46.75968	2.9	22.365	1.47	−2.40		−21.6		14.045	0	−23.1	45.6
J430444	2043-07-15 21:24:05.61	17 38 27.51917 −23 04 03.93190	4.4	18.155	0.61	−13.10	4.336	−55.6	8.812	14.534	13.077	10.6	152.3
Pgt	4116721858249318528	17 38 27.53327 −23 03 45.77755	2.5	57.096	1.48	−2.40		−57.2	0.670	14.075	0	−23.1	42.6
J430445	2043-07-15 23:16:00.57	17 38 25.50472 −23 03 49.30902	2.5	3.829	0.61	−13.08	4.337	−10.1	8.627	13.822	12.504	342.5	152.3
Pgt	4116722068777463296	17 38 25.50767 −23 03 45.48002	1.3	12.044	1.49	−2.40		−12.0		13.361	0	−23.1	41.7
J430446	2043-07-15 23:16:57.82	17 38 25.47482 −23 04 05.52963	3.1	20.053	0.62	−13.08	4.337	−64.0	9.886	14.968	13.671	342.3	152.3
Pgt	4116721823889542016	17 38 25.49042 −23 03 45.47749	1.8	63.072	1.49	−2.40		−65.6		14.507	0	−23.1	41.7
J430447	2043-07-16 03:04:09.37	17 38 21.39659 −23 03 34.35137	3.9	10.523	180.61	−13.04	4.338	31.7	7.035	12.499	11.121	285.3	152.1
Pgt	4116722034343949824	17 38 21.38849 −23 03 44.87410	2.2	33.106	1.49	−2.40		29.8		12.035	0	−23.1	39.8
J430448	2043-07-16 03:13:44.20	17 38 21.21972 −23 03 39.78670	3.2	5.062	180.61	−13.04	4.338	15.6	6.921	11.610	10.423	282.9	152.1
Pgt	4116722034417731968	17 38 21.21581 −23 03 44.84867	1.8	15.926	1.49	−2.40		13.6	0.926	11.146	0	−23.1	39.7
J430449	2043-07-16 10:45:31.58	17 38 13.09568 −23 03 49.07595	2.6	5.425	0.61	−12.96	4.340	−14.7	9.797	14.127	12.997	169.6	151.8
Pgt	4116722721611787392	17 38 13.09990 −23 03 43.65154	1.4	17.075	1.51	−2.40		−16.7	0.229	13.656	0	−23.1	36.0
J430450	2043-07-16 12:55:21.22	17 38 10.77802 −23 03 42.71791	8.6	0.590	180.61	−12.94	4.341	2.7	7.053	13.108	11.374	137.1	151.7
Pgt	4116722717276925440	17 38 10.77757 −23 03 43.30830	4.3	1.859	1.51	−2.40		0.7		12.635	0	−23.1	35.0
J430451	2043-07-16 12:59:48.16	17 38 10.71154 −23 03 25.80591	2.3	17.492	180.61	−12.94	4.341	54.8	7.992	12.368	11.225	136.0	151.7
Pgt	4116722785962298496	17 38 10.69806 −23 03 43.29654	1.0	55.066	1.51	−2.40		53.0	0.536	11.896	0	−23.1	34.9
J430452	2043-07-16 22:09:22.07	17 38 00.90617 −23 03 56.48130	7.4	14.634	0.62	−12.84	4.343	−42.9	8.572	14.801	13.279	358.2	151.3
Pgt	4116722579809153280	17 38 00.91764 −23 03 41.84832	3.7	46.098	1.53	−2.40		−44.7		14.320	0	−23.1	30.4
J430453	2043-07-16 23:41:18.02	17 37 59.30715 −23 03 18.63627	10.1	22.972	180.61	−12.83	4.344		8.910	14.816	13.350	335.1	151.2
Pt	4116722648523345536	17 37 59.28945 −23 03 41.60687	5.1	72.371	1.53	−2.40				14.334	0	−23.1	29.7
J430454	2043-07-17 01:55:45.58	17 37 56.91244 −23 03 40.94501	4.5	0.309	180.61	−12.80	4.344	1.9	9.257	14.766	13.374	301.4	151.1
Pgt	4116722549813288704	17 37 56.91220 −23 03 41.25418	2.1	0.974	1.54	−2.40		−0.2	0.511	14.281	0	−23.1	28.6
J430455	2043-07-17 08:06:29.96	17 37 50.37529 −23 03 50.12846	2.7	9.844	0.62	−12.73	4.346	−27.8	9.212	13.730	12.564	208.4	150.8
Pgt	4116725470391618560	17 37 50.38300 −23 03 40.28459	1.3	31.032	1.55	−2.40		−29.8	0.303	13.240	0	−23.1	25.6
J430456	2043-07-17 09:45:00.29	17 37 48.66095 −23 03 31.74418	6.2	8.284	180.61	−12.72	4.347	25.1	8.402	14.546	13.048	183.7	150.8
Pgt	4116725534741340928	17 37 48.65451 −23 03 40.02770	3.3	26.116	1.55	−2.40		23.1	0.992	14.054	0	−23.1	24.8
J430457	2043-07-17 19:12:17.68	17 37 38.76712 −23 03 18.88855	5.3	19.667	180.61	−12.61	4.350	64.1	9.117	14.929	13.498	41.5	150.3
Pgt	4116719904112099328	17 37 38.75188 −23 03 38.55440	2.9	62.043	1.57	−2.40		62.3	0.632	14.429	0	−23.1	20.2

Table 9 *continued on next page*

Table 9 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430458	2043-07-17 23:17:55.64	17 37 34.47949 −23 03 53.04619	6.6	15.127	0.62	−12.57	4.351	−44.6	8.417	14.478	12.995	339.9	150.2
Pgt	4116719801032892160	17 37 34.49140 −23 03 37.91987	3.3	47.735	1.58	−2.40		−46.5		13.973	0	−23.1	18.2
J430459	2043-07-18 06:52:49.24	17 37 26.64071 −23 03 42.13662	4.6	5.386	0.62	−12.48	4.353	−14.5	9.057	14.752	13.342	225.8	149.8
Pgt	4116720213349800704	17 37 26.64493 −23 03 36.75075	2.5	17.006	1.59	−2.40		−16.7	0.576	14.240	0	−23.1	14.6
J430460	2043-07-18 17:28:09.63	17 37 15.77053 −23 03 49.51673	2.6	14.385	0.62	−12.36	4.357	−42.1	9.358	14.072	12.866	66.5	149.4
Pgt	4116720346420836992	17 37 15.78184 −23 03 35.13254	1.4	45.453	1.61	−2.39		−44.1	0.312	13.550	0	−23.1	9.9
J430461	2043-07-18 19:39:15.41	17 37 13.55746 −23 03 30.96052	4.9	3.841	180.62	−12.34	4.357	12.3	8.869	14.606	13.182	33.6	149.3
Pgt	4116720346420847872	17 37 13.55447 −23 03 34.80097	2.5	12.137	1.62	−2.39		10.0	0.715	14.082	0	−23.1	9.0
J430462	2043-07-19 03:33:53.73	17 37 05.52902 −23 03 36.23081	3.2	2.623	0.62	−12.25	4.360	−6.5	9.812	14.809	13.547	274.6	148.9
Pgt	4116732131811108352	17 37 05.53107 −23 03 33.60754	1.9	8.295	1.63	−2.39		−8.8	0.338	14.276	0	−23.1	6.2
J430463	2043-07-19 04:32:13.69	17 37 04.53099 −23 03 56.83983	9.5	23.380	0.62	−12.24	4.360		6.638	14.897	13.208	260.0	148.9
Pt	4116730658643977984	17 37 04.54944 −23 03 33.46164	5.9	73.933	1.63	−2.39				14.364	0	−23.1	5.9
J430464	2043-07-19 19:23:01.00	17 36 49.66442 −23 03 50.57706	8.2	19.323	0.62	−12.06	4.365	−60.9	7.904	14.742	13.134	36.6	148.2
Pgt	4116731517706763520	17 36 49.67959 −23 03 31.25542	4.6	61.172	1.66	−2.39		−62.9		14.193	0	−23.1	7.2
J430465	2043-07-19 21:13:10.52	17 36 47.85826 −23 03 28.60202	2.5	2.384	180.61	−12.04	4.366	8.1	9.103	13.761	12.576	9.0	148.2
Pgt	4116731513335821824	17 36 47.85642 −23 03 30.98557	1.4	7.547	1.66	−2.39		5.7	0.336	13.210	0	−23.1	7.8
J430466	2043-07-19 22:39:56.14	17 36 46.40835 −23 03 49.37875	6.2	18.606	0.62	−12.03	4.366	−57.8	8.600	14.220	12.455	347.2	148.1
Pgt	4116731513335780992	17 36 46.42293 −23 03 30.77352	3.4	58.918	1.66	−2.39		−59.8		13.667	0	−23.1	8.4
J430467	2043-07-20 14:58:37.29	17 36 30.40589 −23 03 25.25970	5.2	3.155	180.61	−11.83	4.371	10.4	8.437	14.386	12.919	101.8	147.4
Pgt	4116734300845752576	17 36 30.40347 −23 03 28.41403	3.1	10.001	1.69	−2.39		7.9	0.946	13.817	0	−23.1	15.8
J430468	2043-07-21 04:09:28.90	17 36 17.64808 −23 03 48.19998	2.7	21.647	0.61	−11.67	4.376	−74.6	9.907	14.476	13.290	263.5	146.8
Pgt	4116640670565247872	17 36 17.66479 −23 03 26.55464	1.4	68.700	1.72	−2.39		−76.6	0.252	13.891	0	−23.1	22.4
J430469	2043-07-21 11:58:00.69	17 36 10.19238 −23 03 43.08547	3.9	17.612	0.61	−11.58	4.379	−53.9	8.423	13.936	12.548	146.0	146.5
Pgt	4116640631833660032	17 36 10.20587 −23 03 25.47406	2.0	55.931	1.73	−2.39		−56.0	0.770	13.343	0	−23.1	26.4
J430470	2043-07-21 13:25:36.23	17 36 08.81522 −23 03 29.80703	3.9	4.533	0.60	−11.56	4.379	−11.9	8.375	14.075	12.691	124.1	146.4
Pgt	4116641392119773312	17 36 08.81866 −23 03 25.27383	2.0	14.398	1.73	−2.39		−14.5	0.793	13.480	0	−23.1	27.2
J430471	2043-07-21 23:48:06.87	17 35 59.00768 −23 03 47.85993	5.7	23.993	0.60	−11.43	4.383		7.673	13.813	12.326	328.0	146.0
Pt	4116641048522782720	17 35 59.02592 −23 03 23.86794	2.9	76.266	1.75	−2.39			1.380	13.206	0	−23.1	32.6
J430472	2043-07-23 00:02:13.43	17 35 36.59531 −23 03 41.80112	3.8	21.092	0.58	−11.13	4.391	−71.0	7.489	13.076	11.682	323.4	144.9
Pgt	4116686884435693440	17 35 36.61089 −23 03 20.71052	2.0	67.174	1.79	−2.39		−73.2	1.032	12.439	0	−23.1	45.5
J430473	2043-07-23 04:40:46.35	17 35 32.39208 −23 03 18.99818	2.5	1.129	180.57	−11.07	4.393	4.7	9.704	14.154	12.977	253.5	144.7
Pgt	4116686918795450112	17 35 32.39126 −23 03 20.12687	1.3	3.596	1.80	−2.39		1.9	0.253	13.511	0	−23.1	48.0
J430474*	2043-07-23 13:40:14.87	17 35 24.27871 −23 03 29.99486	10.6	10.979	0.57	−10.96	4.396	−31.3	9.418	13.893	12.688	118.2	144.3
Pgt	4116687537270758912	17 35 24.28660 −23 03 19.01680	5.9	35.005	1.81	−2.39		−33.9	0.286	13.239	0	−23.1	52.8
J430475	2043-07-23 21:04:38.05	17 35 17.66199 −23 03 40.32018	6.4	22.198	0.57	−10.86	4.399	−81.7	7.089	13.459	11.933	6.8	144.0
Pgt	4116687228033131136	17 35 17.67788 −23 03 18.12355	3.5	70.820	1.82	−2.39		−83.8	2.059	12.796	0	−23.1	56.9
J430476	2043-07-24 01:25:53.56	17 35 13.81128 −23 03 31.81782	2.1	14.211	0.56	−10.81	4.401	−41.7	9.019	13.453	12.282	301.3	143.8
Pgt	4116687395437582336	17 35 13.82132 −23 03 17.60778	1.2	45.354	1.83	−2.39		−44.3	0.351	12.785	0	−23.1	59.2
J430477	2043-07-24 05:08:07.20	17 35 10.54856 −23 03 30.41979	4.2	13.246	0.55	−10.76	4.402	−38.5	9.225	14.909	13.495	245.6	143.7
Pgt	4116687464157067264	17 35 10.55784 −23 03 17.17468	2.5	42.288	1.84	−2.39		−41.2	0.511	14.236	0	−23.1	61.3
J430478	2043-07-24 06:59:16.34	17 35 08.93530 −23 03 11.29469	3.7	5.666	180.54	−10.74	4.403	18.1	9.900	14.914	13.568	217.7	143.6
Pgt	4116687468505143168	17 35 08.93139 −23 03 16.96001	2.2	18.091	1.84	−2.38		15.2	0.300	14.238	0	−23.1	62.3
J430479	2043-07-24 08:48:50.64	17 35 07.32536 −23 03 26.20202	7.6	9.453	0.55	−10.71	4.403	−26.6	6.856	13.588	12.018	190.2	143.5
Pgt	4116687361077849600	17 35 07.33192 −23 03 16.74968	4.4	30.188	1.84	−2.38		−29.4	2.615	12.910	0	−23.1	63.3
J430480	2043-07-24 10:11:49.89	17 35 06.11270 −23 03 31.47273	3.0	14.882	0.55	−10.69	4.404	−44.0	9.818	14.626	13.396	169.4	143.4
Pgt	4116690316015349120	17 35 06.12304 −23 03 16.59123	1.8	47.533	1.84	−2.38		−46.6	0.301	13.946	0	−23.1	64.1
J430481	2043-07-24 19:46:31.04	17 34 57.80478 −23 03 25.57454	2.3	10.061	0.54	−10.57	4.407	−28.4	8.690	13.773	12.506	25.3	143.0
Pgt	4116684479252759680	17 34 57.81161 −23 03 15.51432	1.3	32.159	1.86	−2.38		−31.3	0.485	13.080	0	−23.1	69.4
J430482	2043-07-25 01:52:50.61	17 34 52.58286 −23 02 52.37510	2.6	22.472	180.52	−10.49	4.410		9.616	13.768	12.655	293.5	142.8
Pt	4116684754130707328	17 34 52.56822 −23 03 14.84667	1.5	71.871	1.87	−2.38			0.240	13.068	0	−23.1	72.8

Table 9 *continued on next page*

Table 9 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430483	2043-07-25 03:37:38.23	17 34 51.08367 −23 03 03.04696	3.2	11.612	180.52	−10.47	4.410	36.1	9.543	14.495	13.240	267.2	142.7
Pgt	4116684749737773952	17 34 51.07607 −23 03 14.65843	2.0	37.143	1.87	−2.38		33.3	0.355	13.792	0	−23.1	73.7
J430484	2043-07-25 04:58:25.47	17 34 49.92061 −23 03 25.82001	8.2	11.306	0.53	−10.45	4.411	−32.3	8.575	14.995	13.459	246.9	142.6
Pgt	4116684719770968832	17 34 49.92813 −23 03 14.51416	4.9	36.169	1.87	−2.38		−35.2		14.290	0	−23.1	74.5
J430485	2043-07-26 07:11:27.85	17 34 27.98418 −23 03 27.98108	3.2	16.121	0.49	−10.10	4.421	−48.5	9.957	14.746	13.507	212.5	141.5
Pgt	4116685265133830400	17 34 27.99415 −23 03 11.86087	2.1	51.689	1.91	−2.38		−51.3		14.003	0	−23.1	89.3
J430486	2043-07-26 13:56:28.10	17 34 22.48384 −23 03 00.19022	2.2	11.038	180.47	−10.00	4.424	34.6	9.825	13.751	12.672	111.0	141.2
Pgt	4116696917480719104	17 34 22.47733 −23 03 11.22762	1.5	35.412	1.92	−2.38		31.5	0.203	12.999	0	−23.1	93.1
J430487	2043-07-26 15:42:52.18	17 34 21.04252 −23 03 01.40368	4.3	9.661	180.46	−9.98	4.424	30.3	8.553	14.249	12.814	84.3	141.1
Pgt	4116696986200201344	17 34 21.03685 −23 03 11.06473	2.9	31.001	1.92	−2.38		27.2	0.845	13.495	0	−23.1	94.1
J430488	2043-07-27 11:10:44.72	17 34 05.46202 −23 03 21.85778	8.5	12.483	0.44	−9.71	4.432	−36.1	7.996	14.986	13.391	151.4	140.3
Pgt	4116695714847415424	17 34 05.46893 −23 03 09.37540	5.8	40.125	1.95	−2.38		−39.2		14.202	0	−23.1	105.3
J430489	2043-07-27 22:48:53.81	17 33 56.37023 −23 03 24.22224	2.4	15.766	0.41	−9.55	4.437	−47.3	9.419	14.267	12.990	336.4	139.8
Pgt	4116696402084465792	17 33 56.37850 −23 03 08.45669	1.6	50.732	1.97	−2.38		−50.4	0.380	13.465	0	−23.1	112.0
J430490	2043-07-28 00:17:52.95	17 33 55.23910 −23 02 53.47960	2.5	14.865	180.40	−9.53	4.437	47.2	9.910	14.072	12.956	314.1	139.7
Pgt	4116696608242909056	17 33 55.23164 −23 03 08.34468	1.6	47.841	1.97	−2.38		44.1	0.228	13.267	0	−23.1	112.8
J430491	2043-07-28 21:36:04.23	17 33 39.04455 −23 03 25.58066	4.4	18.716	0.36	−9.23	4.446	−59.2	8.315	14.159	12.716	353.6	138.8
Pgt	4116699116503857280	17 33 39.05316 −23 03 06.86506	3.1	60.351	2.00	−2.38		−62.3	0.966	13.319	0	−23.1	125.2
J430492	2043-07-30 19:25:35.09	17 33 06.14424 −23 03 13.92414	5.9	9.366	0.23	−8.56	4.465	−26.1	8.854	14.945	13.478	24.2	136.9
Pgt	4116676473368782976	17 33 06.14691 −23 03 04.55867	4.3	30.331	2.06	−2.37		−30.1	0.673	14.024	0	−23.1	152.1
J430493	2043-07-31 04:52:15.00	17 32 59.69465 −23 02 46.44368	6.2	17.798	180.18	−8.42	4.469	59.0	8.449	14.702	13.204	242.1	136.5
Pgt	4117427096235933696	17 32 59.69067 −23 03 04.24135	4.4	57.692	2.07	−2.37		55.4	1.041	13.762	0	−23.1	157.7
J430494	2043-07-31 08:25:51.27	17 32 57.28848 −23 02 54.24250	3.0	9.894	180.17	−8.37	4.471	31.8	9.335	14.560	13.260	188.5	136.3
Pgt	4117427057521620736	17 32 57.28638 −23 03 04.13660	2.1	32.084	2.07	−2.37		27.7	0.457	13.614	0	−23.1	159.7
J430495	2043-07-31 16:19:03.13	17 32 52.01744 −23 03 05.80874	4.0	1.875	0.15	−8.25	4.474	−3.4	8.324	14.096	12.689	69.9	136.0
Pgt	4117427027516531584	17 32 52.01778 −23 03 03.93381	2.7	6.085	2.08	−2.37		−7.8	0.878	13.134	0	−23.1	164.2
J430496	2043-08-02 15:57:23.75	17 32 21.88753 −23 02 52.90628	2.8	10.690	179.93	−7.52	4.496	34.8	9.806	14.289	13.114	73.2	134.0
Pgt	4117426335965448192	17 32 21.88852 −23 03 03.59588	1.7	34.854	2.14	−2.37		30.1	0.294	13.227	0	−23.1	165.2
J430497	2043-08-03 01:56:03.44	17 32 15.95167 −23 03 07.34281	8.5	3.617	359.89	−7.37	4.500	−8.3	7.724	13.930	12.431	283.1	133.6
Pgt	4117429187823715328	17 32 15.95114 −23 03 03.72599	5.1	11.805	2.15	−2.37		−13.4	1.473	12.845	0	−23.1	159.5
J430498	2043-08-03 15:55:45.38	17 32 07.83905 −23 02 51.64032	8.1	12.390	179.79	−7.15	4.507	40.5	8.735	14.893	13.401	72.6	133.0
Pgt	4117429428341898624	17 32 07.84227 −23 03 04.03069	5.2	40.499	2.16	−2.36		35.6		13.775	0	−23.1	151.4
J430499	2043-08-04 05:20:41.35	17 32 00.30826 −23 02 51.40325	12.9	13.058	179.71	−6.93	4.513	42.8	6.348	14.311	12.655	230.8	132.4
Pgt	4117423587186373248	17 32 00.31304 −23 03 04.46081	8.7	42.739	2.18	−2.36		37.8		13.161	0	−23.1	143.6
J430500	2043-08-04 21:45:23.14	17 31 51.42722 −23 03 01.74522	3.4	3.428	179.61	−6.67	4.521	13.2	9.546	14.394	13.174	343.9	131.7
Pgt	4117424278738112000	17 31 51.42892 −23 03 05.17288	2.1	11.238	2.19	−2.36		7.4	0.370	13.202	0	−23.1	134.1
J430501	2043-08-09 13:53:02.36	17 31 00.47188 −23 03 08.49865	3.7	7.321	178.43	−4.80	4.575	26.6	7.609	13.095	11.730	97.2	127.0
Pgt	4117435102056064384	17 31 00.48639 −23 03 15.81696	2.5	24.295	2.28	−2.35		18.2	0.945	11.546	0	−23.1	72.6
J430502*	2043-08-11 11:24:40.29	17 30 44.69763 −23 03 11.63440	13.1	11.547	177.59	−4.02	4.599	41.0	9.590	13.527	12.412	132.3	125.2
Pgt	4117438022633925248	17 30 44.73288 −23 03 23.17154	8.2	38.515	2.31	−2.35		31.1	0.283	11.785	0	−23.1	49.6
J430503	2043-08-11 22:05:25.02	17 30 41.41900 −23 03 14.27120	6.0	10.902	177.34	−3.84	4.604	39.2	9.176	14.678	13.286	331.7	124.7
Pgt	4111433417833677312	17 30 41.45572 −23 03 25.16142	3.4	36.406	2.32	−2.35		28.7		12.886	0	−23.1	44.3
J430504	2043-08-14 16:00:16.80	17 30 24.75773 −23 03 38.91972	3.3	0.798	174.98	−2.68	4.639	11.1	8.537	13.885	12.536	60.2	122.0
Pgt	4111434135036685056	17 30 24.76279 −23 03 39.71425	2.3	2.684	2.35	−2.34		−5.7	0.744	11.703	0	−23.1	12.6
J430505	2043-08-22 22:57:35.71	17 30 11.84738 −23 04 34.55604	4.9	14.602	203.53	1.05	4.751	66.5	8.765	14.457	13.022	307.6	114.0
Pgt	4111433795790755968	17 30 11.42486 −23 04 47.94377	3.4	50.314	2.37	−2.32		22.6	0.730	11.256	0	−23.1	95.6
J430506	2043-08-27 18:45:40.05	17 30 29.41318 −23 05 32.05037	8.8	12.723	189.52	3.19	4.819	49.2	7.957	14.452	12.910	5.9	109.4
Pgt	4111432868077529600	17 30 29.26074 −23 05 44.59857	5.8	44.472	2.34	−2.30		34.6		12.460	0	−23.1	162.9
J430507	2043-08-28 05:49:02.10	17 30 32.14573 −23 05 33.43276	12.3	17.436	189.11	3.40	4.826	67.9	7.379	14.182	12.561	199.7	109.0
Pgt	4111432868077522688	17 30 31.94562 −23 05 50.64881	7.9	61.028	2.33	−2.30		55.2	1.876	12.259	0	−23.1	168.9

Table 9 *continued on next page*

Table 9 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430508	2043-08-31 12:04:13.55	17 30 55.89342 −23 06 29.23023	9.7	7.393	187.14	4.91	4.874	29.4	8.029	14.484	12.935	102.7	105.9
Pgt	4111429913139945856	17 30 55.82681 −23 06 36.56564	6.6	26.131	2.29	−2.29		18.7		12.959	0	−23.1	143.8
J430509	2043-09-03 13:27:05.23	17 31 25.84661 −23 07 37.78594	3.2	13.524	6.09	6.34	4.919	−42.3	9.140	14.324	13.032	79.1	103.1
Pgt	4117422281516021760	17 31 25.95059 −23 07 24.33861	2.1	48.245	2.24	−2.29		−49.9	0.526	13.077	0	−23.2	103.0
J430510	2043-09-05 10:48:21.22	17 31 48.21530 −23 08 05.22799	4.1	9.288	5.64	7.23	4.947	−27.3	9.969	14.914	13.617	117.1	101.3
Pgt	4117422629470469120	17 31 48.28152 −23 07 55.98504	2.6	33.325	2.20	−2.28		−34.7	0.342	13.810	0	−23.2	78.9
J430511	2043-09-06 01:14:51.03	17 31 56.09317 −23 07 50.43803	7.5	16.017	185.54	7.51	4.956	60.2	8.680	14.672	13.212	259.9	100.8
Pgt	4117422595110657920	17 31 55.98097 −23 08 06.37999	5.0	57.574	2.18	−2.28		53.8	0.906	13.609	0	−23.2	71.4
J430512	2043-09-06 04:21:53.23	17 31 57.59579 −23 08 20.72565	3.1	12.138	5.49	7.57	4.958	−37.9	8.764	13.706	12.466	213.0	100.7
Pgt	4117419640173117696	17 31 57.68001 −23 08 08.64334	1.8	43.648	2.18	−2.28		−44.6	0.573	12.652	0	−23.2	69.8
J430513	2043-09-06 09:28:46.32	17 32 00.49065 −23 08 13.19722	4.3	0.829	5.46	7.67	4.961	1.0	9.840	14.925	13.671	136.1	100.5
Pgt	4117419743252310656	17 32 00.49637 −23 08 12.37194	2.6	2.983	2.18	−2.28		−6.5	0.370	13.885	0	−23.2	67.2
J430514	2043-09-06 11:46:20.00	17 32 01.62871 −23 08 34.62926	6.6	20.673	5.42	7.72	4.963		8.410	14.485	13.007	101.6	100.4
Pt	4117419670175859456	17 32 01.77037 −23 08 14.04927	4.4	74.408	2.17	−2.28			1.077	13.452	0	−23.2	66.0
J430515	2043-09-08 03:19:03.04	17 32 24.74413 −23 09 01.27219	3.8	17.802	5.14	8.49	4.988	−64.2	8.769	14.251	12.903	226.9	98.9
Pgt	4117419124776688896	17 32 24.85967 −23 08 43.54159	2.7	64.397	2.13	−2.27		−69.7	0.679	13.321	0	−23.2	46.2
J430516	2043-09-09 19:27:21.91	17 32 50.44453 −23 09 13.21037	5.2	1.305	184.89	9.28	5.013	7.5	9.275	14.979	13.569	343.3	97.3
Pgt	4116674029501489792	17 32 50.43645 −23 09 14.51069	3.6	4.745	2.09	−2.27		1.1	0.642	14.145	0	−23.2	26.6
J430517	2043-09-12 09:22:12.06	17 33 34.15457 −23 09 48.75923	16.8	15.411	184.56	10.49	5.052	58.1	7.089	14.806	12.984	132.2	95.0
Pgt	4116671731776678912	17 33 34.06570 −23 10 04.12122	12.0	56.470	2.01	−2.26		53.2	2.521	14.106	0	−23.2	6.9
J430518*	2043-09-12 19:57:11.97	17 33 41.93346 −23 10 28.67646	9.5	15.921	4.49	10.70	5.059	−55.8	9.065	14.638	13.224	333.0	94.6
Pgt	4116670937125191040	17 33 42.02378 −23 10 12.80403	6.8	58.418	1.99	−2.26		−60.5	0.660	13.958	0	−23.2	11.0
J430519	2043-09-13 05:52:10.76	17 33 49.56607 −23 10 28.96840	2.3	8.003	4.44	10.89	5.065	−24.6	9.335	13.256	12.175	183.9	94.2
Pgt	4116671074561080448	17 33 49.61103 −23 10 20.98934	1.5	29.402	1.98	−2.26		−29.9	0.374	12.596	0	−23.2	15.6
J430520	2043-09-13 06:24:51.74	17 33 50.11483 −23 10 06.69313	5.7	14.792	184.46	10.90	5.066	55.4	8.667	14.494	13.040	175.7	94.2
Pgt	4116671147660993792	17 33 50.03148 −23 10 21.44035	3.8	54.346	1.98	−2.26		50.6	1.006	13.835	0	−23.2	15.8
J430521	2043-09-13 10:09:00.68	17 33 53.02797 −23 10 06.31923	2.1	18.273	184.44	10.97	5.068	74.3	7.585	10.116	9.330	119.6	94.1
Pgt	4116671182020706944	17 33 52.92537 −23 10 24.53732	1.4	67.167	1.97	−2.26		69.9	0.631	9.465	0	−23.2	17.6
J430522	2043-09-14 05:53:11.34	17 34 08.47366 −23 10 48.00842	5.8	7.023	4.33	11.36	5.081	−21.3	9.221	14.693	13.298	182.8	93.3
Pgt	4116682658186347136	17 34 08.51213 −23 10 41.00570	3.9	25.878	1.95	−2.25		−26.5	0.652	14.079	0	−23.2	27.4
J430523	2043-09-14 06:26:03.44	17 34 08.86557 −23 10 57.20506	9.4	15.785	4.32	11.37	5.081	−55.5	7.603	14.110	12.553	174.5	93.3
Pgt	4116682585073363840	17 34 08.95186 −23 10 41.46527	6.1	58.168	1.95	−2.25		−60.0	1.882	13.497	0	−23.2	27.7
J430524	2043-09-14 11:44:46.32	17 34 13.24723 −23 10 43.78518	6.2	2.149	184.31	11.47	5.084	10.0	6.658	11.809	10.498	94.6	93.1
Pgt	4116682619433148800	17 34 13.23551 −23 10 45.92833	3.8	7.925	1.94	−2.25		4.6	1.523	11.205	0	−23.2	30.4
J430525	2043-09-14 14:12:26.84	17 34 15.32290 −23 10 31.43908	10.6	16.608	184.31	11.52	5.086	64.2	7.830	14.635	13.037	57.6	93.0
Pgt	4116681970991563520	17 34 15.23242 −23 10 48.00037	6.5	61.263	1.93	−2.25		59.8		14.036	0	−23.2	31.6
J430526	2043-09-14 17:02:17.51	17 34 17.49133 −23 10 59.08920	3.9	8.727	4.28	11.57	5.088	−27.4	9.700	14.648	13.384	15.1	92.9
Pgt	4116681970991551232	17 34 17.53856 −23 10 50.38667	2.4	32.202	1.93	−2.25		−32.4	0.383	14.054	0	−23.2	33.1
J430527	2043-09-15 01:55:21.30	17 34 24.94285 −23 10 39.28504	3.0	18.665	184.26	11.74	5.093	78.4	8.845	13.917	12.651	241.5	92.6
Pgt	4116681936631792000	17 34 24.84236 −23 10 57.89823	1.8	68.950	1.92	−2.25		74.2	0.619	13.339	0	−23.2	37.7
J430528	2043-09-15 15:16:47.01	17 34 36.05315 −23 11 01.51574	2.3	7.758	184.19	12.00	5.102	29.0	8.080	11.872	10.809	40.6	92.1
Pgt	4116679114739047424	17 34 36.01202 −23 11 09.25303	1.4	28.707	1.90	−2.25		24.1	0.578	11.317	0	−23.2	44.7
J430529	2043-09-16 16:48:51.15	17 34 57.88642 −23 11 51.50183	8.9	20.402	4.07	12.50	5.118		6.214	13.113	11.532	16.6	91.1
P	4116679600169744128	17 34 57.99140 −23 11 31.15127	5.5	75.734	1.86	−2.25			4.615	12.602	0	−23.2	58.6

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

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

Table 10. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K $\leq$ 10 (part 10 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430530	2043-09-16 19:23:00.49	17 35 00.19449 −23 11 43.79067	2.4	10.449	4.06	12.55	5.120	−34.0	8.383	12.432	11.315	338.0	91.0
Pgt	4116679595776048896	17 35 00.24819 −23 11 33.36790	1.5	38.800	1.85	−2.25		−38.7	0.510	11.926	0	−23.2	60.0
J430531	2043-09-17 16:55:30.72	17 35 19.52966 −23 11 45.40513	3.5	6.653	183.99	12.96	5.134	25.2	9.487	14.875	13.540	14.1	90.2
Pgt	4116632870903428992	17 35 19.49612 −23 11 52.04220	2.1	24.772	1.82	−2.24		20.5	0.483	14.405	0	−23.2	72.0
J430532*	2043-09-18 15:46:07.61	17 35 40.62548 −23 11 53.77027	4.3	18.276	183.90	13.40	5.148	76.4	9.294	14.087	12.802	30.6	89.4
Pgt	4116637818706845696	17 35 40.53526 −23 12 12.00375	2.1	68.239	1.78	−2.24		72.6	0.382	13.652	0	−23.2	85.1
J430533	2043-09-19 06:36:49.57	17 35 54.55619 −23 12 24.24016	2.7	0.818	183.84	13.69	5.158	5.2	8.481	13.579	12.285	167.3	88.8
Pgt	4116634726330654464	17 35 54.55222 −23 12 25.05652	1.5	3.061	1.76	−2.24		0.4	0.722	13.167	0	−23.2	93.8
J430534	2043-09-19 11:34:05.57	17 35 59.21945 −23 12 44.14759	4.4	14.754	3.81	13.78	5.161	−52.1	9.687	14.995	13.618	92.8	88.7
Pgt	4116635031195270016	17 35 59.29055 −23 12 29.42575	2.5	55.226	1.75	−2.24		−56.1		14.590	0	−23.2	96.7
J430535	2043-09-20 00:10:53.88	17 36 11.57657 −23 12 22.16207	2.6	18.454	183.78	14.02	5.169	78.7	8.666	13.114	11.954	263.2	88.2
Pgt	4116634893756365696	17 36 11.48831 −23 12 40.57633	1.4	69.183	1.73	−2.24		75.1	0.477	12.728	0	−23.2	104.2
J430536	2043-09-20 09:32:58.54	17 36 20.70607 −23 12 41.75257	2.4	7.145	183.74	14.20	5.175	27.0	9.577	11.003	10.502	122.3	87.8
Pgt	4116635585324536576	17 36 20.67227 −23 12 48.88206	1.3	26.815	1.71	−2.23		22.6	0.209	10.632	0	−23.2	109.8
J430537	2043-09-23 13:48:15.37	17 37 39.31108 −23 14 07.51003	15.9	10.435	3.46	15.65	5.223	−35.1	4.111	11.549	10.549	55.7	85.0
Pgt	4116713135287242624	17 37 39.35681 −23 13 57.09370	8.8	39.534	1.57	−2.22		−39.1		11.283	0	−23.3	155.2
J430538	2043-09-24 01:16:38.08	17 37 51.78255 −23 14 10.14182	3.8	2.722	3.43	15.87	5.231	−7.3	8.094	13.775	12.373	243.2	84.6
Pgt	4116526798017155328	17 37 51.79436 −23 14 07.42428	2.0	10.328	1.55	−2.22		−11.6	1.016	13.525	0	−23.3	161.8
J430539	2043-09-24 01:34:32.76	17 37 52.19897 −23 13 49.58026	3.7	18.146	183.44	15.88	5.231	77.7	8.760	14.600	13.234	238.7	84.6
Pgt	4116714475273089664	17 37 52.12006 −23 14 07.69324	1.9	68.842	1.55	−2.22		74.3		14.350	0	−23.3	162.0
J430540	2043-09-24 10:38:28.81	17 38 01.98075 −23 14 34.67586	3.7	18.845	3.39	16.05	5.237		8.929	14.374	13.015	102.4	84.3
Pt	4116526561921983744	17 38 02.06156 −23 14 15.86429	1.9	71.572	1.53	−2.22			0.667	14.135	0	−23.3	167.0
J430541	2043-09-24 16:47:12.78	17 38 08.91066 −23 14 08.70077	4.4	12.728	183.38	16.17	5.241	48.1	8.375	13.952	12.562	10.0	84.1
Pgt	4116526630641426944	17 38 08.85618 −23 14 21.40642	2.5	48.377	1.52	−2.22		44.4	0.942	13.721	0	−23.3	170.2
J430542	2043-09-24 22:18:22.51	17 38 14.92994 −23 14 41.98935	4.0	15.631	3.35	16.27	5.244	−57.8	9.583	14.784	13.489	287.0	83.8
Pgt	4116526252684247808	17 38 14.99623 −23 14 26.38538	2.2	59.450	1.50	−2.22		−61.2	0.467	14.560	0	−23.3	172.7
J430543	2043-09-25 07:00:14.14	17 38 24.71932 −23 14 40.06433	5.5	5.840	3.33	16.44	5.250	−18.4	8.583	14.357	12.954	156.2	83.5
Pgt	4116526012166030976	17 38 24.74390 −23 14 34.23370	3.1	22.237	1.49	−2.22		−22.5		14.144	0	−23.3	174.6
J430544	2043-09-25 09:01:50.45	17 38 27.05222 −23 14 30.30359	9.3	5.769	183.32	16.48	5.251	22.3	8.035	14.435	12.909	125.7	83.5
Pgt	4116526042102867072	17 38 27.02794 −23 14 36.06286	5.0	21.970	1.48	−2.22		18.2		14.225	0	−23.3	174.5
J430545	2043-09-26 22:25:10.71	17 39 09.97645 −23 15 20.67921	9.8	10.886	3.19	17.18	5.275	−37.4	6.383	14.006	12.354	283.5	82.1
Pgt	4116528241126019840	17 39 10.02045 −23 15 09.81043	5.9	41.643	1.41	−2.21		−41.0		13.841	0	−23.3	156.6
J430546	2043-09-27 03:19:58.97	17 39 15.77748 −23 15 17.38147	6.5	3.144	3.18	17.27	5.278	−9.0	8.696	14.763	13.261	209.6	81.9
Pgt	4116516528825727232	17 39 15.79014 −23 15 14.24274	4.0	12.033	1.40	−2.21		−13.1	0.879	14.604	0	−23.3	153.9
J430547	2043-09-27 04:27:48.19	17 39 17.16608 −23 15 04.18562	10.7	11.094	183.18	17.30	5.278	41.9	7.433	14.698	13.070	192.6	81.9
Pgt	4116516460157284352	17 39 17.12137 −23 15 15.26224	6.4	42.470	1.39	−2.21		38.2		14.540	0	−23.3	153.2
J430548	2043-09-27 04:56:06.93	17 39 17.73600 −23 15 01.20452	6.5	14.506	183.18	17.31	5.279	56.2	8.432	14.541	13.043	185.5	81.9
Pgt	4116516460157280768	17 39 17.67755 −23 15 15.68782	4.0	55.535	1.39	−2.21		52.7		14.384	0	−23.3	153.0
J430549	2043-09-27 11:22:09.53	17 39 25.35264 −23 15 05.00978	4.3	16.505	183.16	17.43	5.283	66.7	9.496	14.839	13.498	88.8	81.6
Pgt	4116517765775574912	17 39 25.28655 −23 15 21.48948	2.5	63.238	1.38	−2.21		63.4	0.504	14.690	0	−23.3	149.4
J430550	2043-09-27 12:50:26.57	17 39 27.03882 −23 15 21.44409	5.1	1.374	183.15	17.45	5.284	6.8	8.632	14.367	12.920	66.7	81.6
Pgt	4116517697107757824	17 39 27.03334 −23 15 22.81592	3.0	5.265	1.38	−2.21		2.8	0.765	14.219	0	−23.3	148.6
J430551	2043-09-27 20:01:53.85	17 39 35.67961 −23 15 10.76412	9.0	18.560	183.14	17.59	5.288	86.4	8.470	14.872	13.329	318.6	81.3
Pgt	4116517074211082496	17 39 35.60594 −23 15 29.29620	5.3	71.185	1.36	−2.21		83.5		14.732	0	−23.3	144.6
J430552	2043-09-27 22:52:45.87	17 39 38.98287 −23 15 40.59091	4.1	8.742	3.12	17.64	5.290	−29.3	9.752	14.787	13.482	275.7	81.2
Pgt	4116517005500914944	17 39 39.01735 −23 15 31.86143	2.3	33.542	1.35	−2.21		−33.1		14.651	0	−23.3	143.0
J430553*	2043-09-27 23:59:17.36	17 39 40.34182 −23 15 34.43609	9.9	1.578	3.11	17.66	5.291	−3.5	9.437	14.866	13.461	259.1	81.2
Pgt	4116517009859707520	17 39 40.34804 −23 15 32.85997	5.4	6.057	1.35	−2.21		−7.6		14.731	0	−23.3	142.4

Table 10 *continued on next page*

Table 10 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430554	2043-09-28 05:11:01.39	17 39 46.54815 −23 15 51.36729	8.5	13.850	3.09	17.76	5.294	−49.9	8.324	14.616	13.071	180.9	81.0
Pgt	4116517112938105472	17 39 46.60237 −23 15 37.53753	4.7	53.178	1.34	−2.21		−53.4		14.487	0	−23.3	139.6
J430555	2043-09-28 06:13:05.85	17 39 47.81751 −23 15 47.12680	5.2	8.671	3.09	17.78	5.295	−29.1	8.195	13.687	12.272	165.4	80.9
Pgt	4116517112992465408	17 39 47.85143 −23 15 38.46862	2.8	33.297	1.34	−2.21		−32.8		13.559	0	−23.3	139.0
J430556	2043-09-28 07:55:32.57	17 39 49.92810 −23 15 36.78891	4.1	3.221	183.09	17.81	5.296	13.3	9.114	14.432	13.063	139.7	80.9
Pgt	4116517147351634176	17 39 49.91550 −23 15 40.00501	2.3	12.371	1.33	−2.21		9.4	0.650	14.307	0	−23.3	138.0
J430557	2043-09-28 08:11:24.22	17 39 50.19594 −23 15 50.32418	3.5	10.096	3.08	17.82	5.296	−34.5	9.482	14.484	13.185	135.7	80.9
Pgt	4116517142930476672	17 39 50.23536 −23 15 40.24285	2.0	38.778	1.33	−2.21		−38.2		14.359	0	−23.3	137.9
J430558*	2043-09-28 18:45:22.62	17 40 03.16037 −23 15 30.29400	4.8	19.477	183.06	18.02	5.303		9.118	14.078	12.782	336.9	80.5
P	4116514054974969856	17 40 03.08488 −23 15 49.74282	2.8	74.903	1.31	−2.21			0.522	13.965	0	−23.3	132.1
J430559	2043-09-28 19:03:31.94	17 40 03.44517 −23 15 52.47994	2.5	2.469	3.05	18.02	5.303	−6.7	9.272	13.375	12.271	332.3	80.5
Pgt	4116514050554064256	17 40 03.45471 −23 15 50.01468	1.5	9.495	1.31	−2.21		−10.7	0.328	13.262	0	−23.3	131.9
J430560	2043-09-29 03:49:03.40	17 40 14.13183 −23 16 16.82767	5.8	18.975	3.02	18.18	5.308		7.035	12.433	10.936	200.6	80.2
Pt	4116536727981292672	17 40 14.20431 −23 15 57.87866	3.2	73.054	1.29	−2.21			1.676	12.329	0	−23.3	127.1
J430561	2043-09-29 10:28:49.71	17 40 22.44265 −23 16 03.06401	3.0	0.791	183.00	18.31	5.312	4.8	9.188	14.204	12.931	100.4	79.9
Pgt	4116536590547459968	17 40 22.43964 −23 16 03.85386	1.7	3.047	1.28	−2.20		0.8	0.517	14.108	0	−23.3	123.5
J430562	2043-09-29 10:56:08.32	17 40 23.07544 −23 15 45.55359	4.9	18.734	183.01	18.32	5.313		8.356	13.987	12.557	93.6	79.9
Pt	4116536590547468160	17 40 23.00407 −23 16 04.26181	2.7	72.186	1.28	−2.20			0.916	13.891	0	−23.3	123.3
J430563	2043-09-29 15:36:11.07	17 40 28.83385 −23 16 00.93341	2.5	7.520	182.99	18.41	5.316	28.7	8.499	13.342	12.107	23.4	79.7
Pgt	4116536904222789248	17 40 28.80539 −23 16 08.44324	1.4	28.992	1.26	−2.20		25.0	0.614	13.252	0	−23.3	120.7
J430564	2043-09-29 17:00:42.06	17 40 30.53197 −23 16 17.40082	2.5	7.707	2.98	18.43	5.317	−25.7	9.140	13.147	12.071	2.2	79.7
Pgt	4116536904222768384	17 40 30.56104 −23 16 09.70449	1.3	29.717	1.26	−2.20		−29.4	0.362	13.059	0	−23.3	120.0
J430565	2043-09-29 21:33:56.44	17 40 36.31166 −23 15 58.03976	8.1	15.761	182.97	18.52	5.319	63.0	8.167	14.645	13.093	293.8	79.5
Pgt	4116490003176567680	17 40 36.25233 −23 16 13.77976	4.8	60.807	1.25	−2.20		59.8		14.562	0	−23.3	117.5
J430566	2043-09-30 06:39:51.03	17 40 47.71269 −23 16 16.54423	2.6	5.373	182.94	18.69	5.325	21.0	8.569	12.821	11.708	157.0	79.2
Pgt	4116489792583794048	17 40 47.69270 −23 16 21.91050	1.5	20.753	1.23	−2.20		17.2	0.517	12.748	0	−23.3	112.6
J430567	2043-09-30 08:25:18.65	17 40 49.86143 −23 16 37.48878	4.4	14.028	2.93	18.72	5.326	−51.2	9.516	14.890	13.519	130.5	79.1
Pgt	4116489797018018432	17 40 49.91341 −23 16 23.47939	2.6	54.189	1.23	−2.20		−54.5		14.818	0	−23.3	111.7
J430568	2043-09-30 15:45:54.29	17 40 59.27182 −23 16 18.23482	3.0	11.808	182.91	18.86	5.331	45.1	9.142	14.195	12.911	20.1	78.9
Pgt	4116490479778569216	17 40 59.22827 −23 16 30.02717	1.7	45.652	1.21	−2.20		41.6	0.452	14.131	0	−23.3	107.8
J430569	2043-10-01 06:49:21.69	17 41 18.56629 −23 16 29.73559	3.1	13.699	182.87	19.14	5.340	53.2	9.621	14.214	13.030	153.7	78.3
Pgt	4116487730995856384	17 41 18.51660 −23 16 43.41762	1.8	53.059	1.18	−2.20		49.9	0.379	14.166	0	−23.3	99.8
J430570	2043-10-01 08:33:29.81	17 41 20.73969 −23 16 49.49913	3.3	4.547	2.85	19.17	5.341	−14.3	9.115	14.386	13.087	127.6	78.3
Pgt	4116487735434041600	17 41 20.75611 −23 16 44.95770	1.9	17.615	1.17	−2.20		−18.1		14.340	0	−23.3	98.9
J430571	2043-10-01 12:08:02.95	17 41 25.40449 −23 16 41.56611	8.7	6.570	182.85	19.24	5.344	25.3	7.877	14.788	13.179	73.9	78.1
Pgt	4116487632355149312	17 41 25.38082 −23 16 48.12840	4.9	25.464	1.16	−2.20		21.7		14.746	0	−23.3	97.0
J430572*	2043-10-01 18:04:39.40	17 41 33.13858 −23 16 42.32918	12.1	11.075	182.83	19.35	5.347	42.3	9.576	13.592	12.488	344.5	77.9
Pgt	4116492717597335040	17 41 33.09893 −23 16 53.39114	7.2	42.954	1.15	−2.20		38.8	0.288	13.556	0	−23.3	93.9
J430573	2043-10-02 00:47:59.15	17 41 41.81730 −23 17 15.64057	3.8	16.328	2.80	19.47	5.352	−63.7	9.791	14.843	13.568	243.4	77.7
Pgt	4116492477079124096	17 41 41.87510 −23 16 59.33184	2.2	63.375	1.13	−2.20		−66.8		14.814	0	−23.3	90.4
J430574	2043-10-02 01:43:17.88	17 41 43.12868 −23 16 47.15453	4.7	13.007	182.80	19.49	5.352	50.2	9.018	14.604	13.233	229.6	77.6
Pgt	4116492472639718400	17 41 43.08250 −23 17 00.14556	2.7	50.488	1.13	−2.20		46.9	0.690	14.575	0	−23.3	89.9
J430575	2043-10-03 05:33:29.04	17 42 19.98321 −23 17 22.71859	3.1	1.880	182.71	20.00	5.369	8.6	9.255	14.458	13.145	171.0	76.6
Pgt	4116481653758265984	17 42 19.97676 −23 17 24.59678	1.9	7.322	1.07	−2.19		4.8	0.551	14.458	0	−23.3	75.5
J430576	2043-10-03 05:59:09.63	17 42 20.56302 −23 17 21.34020	3.0	3.635	182.71	20.01	5.370	14.8	8.458	12.886	11.723	164.6	76.6
Pgt	4116481649322093824	17 42 20.55055 −23 17 24.97077	1.8	14.155	1.06	−2.19		11.1	0.550	12.886	0	−23.3	75.3
J430577	2043-10-03 14:45:56.66	17 42 32.36588 −23 17 32.75969	4.3	0.130	2.68	20.17	5.375	1.4	9.033	14.491	13.123	32.6	76.3
Pgt	4116478561381723136	17 42 32.36632 −23 17 32.62959	2.5	0.508	1.04	−2.19		−2.3	0.674	14.500	0	−23.3	70.8
J430578	2043-10-04 00:10:27.15	17 42 45.09331 −23 17 48.81801	5.2	8.020	2.65	20.34	5.381	−27.3	8.976	14.677	13.254	251.1	76.0
Pgt	4116478694384528896	17 42 45.12019 −23 17 40.80615	3.1	31.301	1.02	−2.19		−30.8	0.746	14.696	0	−23.3	66.1

Table 10 *continued on next page*

Table 10 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430579	2043-10-04 01:08:52.58	17 42 46.45992 −23 17 37.36928	3.8	4.286	182.65	20.36	5.382	17.2	9.895	14.809	13.558	236.5	75.9
Pgt	4116478733180318080	17 42 46.44555 −23 17 41.65051	2.1	16.728	1.02	−2.19		13.5	0.356	14.829	0	−23.3	65.6
J430580	2043-10-04 01:36:33.71	17 42 47.11717 −23 17 29.18167	8.4	12.883	182.65	20.37	5.382	50.0	6.877	13.741	12.161	229.5	75.9
Pgt	4116478733180318720	17 42 47.07396 −23 17 42.05051	4.9	50.285	1.02	−2.19		46.7		13.761	0	−23.3	65.4
J430581	2043-10-04 11:01:15.74	17 42 59.94644 −23 17 48.56973	4.4	1.624	182.61	20.54	5.388	7.7	9.411	14.918	13.587	88.0	75.6
Pgt	4116477977164990720	17 42 59.94107 −23 17 50.19155	2.4	6.344	0.99	−2.19		4.0	0.376	14.947	0	−23.3	60.6
J430582	2043-10-05 00:42:26.63	17 43 18.80858 −23 18 05.88009	2.6	3.916	2.57	20.79	5.396	−12.3	9.804	13.772	12.688	242.3	75.1
Pgt	4068814663552676224	17 43 18.82132 −23 18 01.96767	1.5	15.327	0.96	−2.18		−15.9	0.266	13.814	0	−23.3	53.8
J430583	2043-10-05 00:58:53.67	17 43 19.22652 −23 17 54.55831	3.4	7.652	182.57	20.80	5.396	29.5	9.188	14.451	13.135	238.1	75.1
Pgt	4068814697912421504	17 43 19.20160 −23 18 02.20278	1.9	29.949	0.96	−2.18		26.0	0.598	14.494	0	−23.3	53.7
J430584	2043-10-05 13:14:21.72	17 43 36.32484 −23 17 59.90022	6.5	12.793	182.53	21.02	5.404	49.8	8.781	14.738	13.263	53.8	74.6
Pgt	4068814182457629696	17 43 36.28379 −23 18 12.68082	4.0	50.140	0.93	−2.18		46.6		14.792	0	−23.3	47.6
J430585	2043-10-05 15:31:17.40	17 43 39.53805 −23 17 56.98736	8.5	17.654	182.53	21.06	5.405	78.4	8.439	14.962	13.380	19.5	74.6
Pg	4068814148156365184	17 43 39.48153 −23 18 14.62419	5.4	69.209	0.92	−2.18		75.6		15.018	0	−23.3	46.5
J430586	2043-10-06 00:39:35.15	17 43 52.37901 −23 18 10.18925	2.6	12.204	182.50	21.22	5.411	47.3	8.921	13.126	12.013	242.1	74.2
Pgt	4068815380714275456	17 43 52.34041 −23 18 22.38206	1.5	47.895	0.90	−2.18		44.1		13.190	0	−23.3	42.0
J430587	2043-10-06 16:07:48.54	17 44 14.30297 −23 18 37.07668	3.2	1.652	2.44	21.50	5.420	−4.1	8.143	12.921	11.676	9.5	73.7
Pgt	4068811876020846720	17 44 14.30808 −23 18 35.42581	2.0	6.496	0.86	−2.18		−7.8	0.663	12.999	0	−23.3	34.5
J430588	2043-10-06 19:18:14.90	17 44 18.80920 −23 18 50.05121	7.5	11.975	2.43	21.56	5.422	−43.3	8.447	14.646	13.131	321.8	73.6
Pgt	4068811811693604864	17 44 18.84604 −23 18 38.08745	4.9	47.092	0.85	−2.18		−46.5		14.728	0	−23.3	33.0
J430589	2043-10-06 22:43:16.17	17 44 23.73132 −23 18 44.82151	8.5	3.878	2.42	21.62	5.424	−12.2	7.454	13.897	12.354	270.4	73.5
Pgt	4068811708553342464	17 44 23.74321 −23 18 40.94717	5.4	15.256	0.84	−2.18		−15.8	1.837	13.982	0	−23.3	31.3
J430590	2043-10-07 11:26:04.49	17 44 42.02940 −23 19 04.90382	5.2	13.382	2.38	21.85	5.432	−49.6	9.111	14.447	13.038	79.3	73.0
Pgt	4068805759987295360	17 44 42.06968 −23 18 51.53350	3.1	52.722	0.81	−2.18		−52.7		14.543	0	−23.3	25.3
J430591	2043-10-07 14:04:10.71	17 44 45.92113 −23 18 43.00800	2.8	10.718	182.38	21.90	5.434	41.4	9.558	13.230	12.202	39.7	72.9
Pgt	4068805656908153984	17 44 45.88888 −23 18 53.71689	1.8	42.240	0.80	−2.18		38.2	0.291	13.328	0	−23.3	24.0
J430592	2043-10-07 18:13:35.31	17 44 51.87851 −23 19 13.78988	3.5	16.650	2.35	21.97	5.436	−67.7	9.232	14.107	12.864	337.2	72.8
Pgt	4068805626938737664	17 44 51.92815 −23 18 57.15353	2.2	65.650	0.79	−2.18		−70.5		14.209	0	−23.3	22.0
J430593	2043-10-07 22:17:27.64	17 44 57.82565 −23 19 08.84256	3.6	8.345	2.34	22.04	5.439	−28.9	9.536	14.413	13.154	276.1	72.6
Pgt	4068805244591185024	17 44 57.85042 −23 19 00.50468	2.1	32.917	0.78	−2.17		−32.3	0.420	14.519	0	−23.3	20.1
J430594	2043-10-08 02:02:42.66	17 45 03.28072 −23 19 22.16951	7.8	18.593	2.33	22.11	5.441		8.341	14.413	12.899	219.6	72.5
Pt	4068805008463237248	17 45 03.33554 −23 19 03.59179	4.2	73.374	0.77	−2.17				14.522	0	−23.3	18.4
J430595	2043-10-08 03:55:51.06	17 45 06.06154 −23 19 16.86981	4.8	11.740	2.32	22.14	5.442	−42.5	8.755	14.307	12.885	191.3	72.4
Pgt	4068805107152231040	17 45 06.09610 −23 19 05.13940	2.8	46.339	0.77	−2.17		−45.6	0.868	14.418	0	−23.3	17.5
J430596	2043-10-08 06:21:53.92	17 45 09.63108 −23 19 18.68709	3.7	11.562	2.32	22.19	5.444	−41.8	9.029	14.386	13.030	154.7	72.3
Pgt	4068805038432738560	17 45 09.66500 −23 19 07.13416	2.1	45.650	0.76	−2.17		−44.9	0.583	14.498	0	−23.3	16.4
J430597	2043-10-08 14:11:23.95	17 45 21.16151 −23 19 19.61158	4.3	6.093	2.29	22.33	5.449	−20.5	9.819	14.948	13.630	37.0	72.0
Pgt	4068803565353905920	17 45 21.17920 −23 19 13.52345	2.5	24.077	0.74	−2.17		−23.9		15.067	0	−23.3	12.8
J430598	2043-10-08 20:21:11.69	17 45 30.33527 −23 19 03.62925	3.0	14.913	182.28	22.44	5.452	60.3	6.936	11.134	10.011	304.4	71.8
Pgt	4068803423528918144	17 45 30.29223 −23 19 18.53026	1.8	58.971	0.72	−2.17		57.4		11.259	0	−23.3	10.2
J430599	2043-10-08 22:49:23.25	17 45 33.95808 −23 19 19.45603	2.5	1.075	182.27	22.48	5.454	5.7	9.981	13.440	12.438	267.2	71.7
Pgt	4068803423524998912	17 45 33.95499 −23 19 20.53022	1.5	4.252	0.72	−2.17		2.1	0.231	13.567	0	−23.3	9.2
J430600	2043-10-09 02:07:58.01	17 45 38.86746 −23 19 25.05107	5.3	1.848	2.25	22.54	5.456	−4.9	9.307	14.933	13.500	217.5	71.6
Pgt	4068803045567850368	17 45 38.87274 −23 19 23.20429	3.3	7.313	0.71	−2.17		−8.5		15.062	0	−23.3	7.9
J430601	2043-10-09 03:51:47.11	17 45 41.44032 −23 19 27.33606	2.9	2.739	2.25	22.57	5.457	−8.2	9.462	14.148	12.917	191.4	71.6
Pgt	4068802976961753728	17 45 41.44813 −23 19 24.59961	1.7	10.838	0.70	−2.17		−11.7		14.279	0	−23.3	7.3
J430602	2043-10-09 11:07:16.70	17 45 52.28614 −23 19 29.59991	4.7	0.833	182.23	22.70	5.461	4.8	9.090	14.614	13.197	82.3	71.3
Pgt	4068802843798599808	17 45 52.28379 −23 19 30.43219	2.9	3.299	0.68	−2.17		1.3		14.751	0	−23.3	5.5
J430603	2043-10-09 11:50:39.55	17 45 53.40265 −23 19 18.04859	2.7	12.973	182.23	22.71	5.462	51.1	9.934	13.887	12.816	71.5	71.3
Pgt	4068802878158332032	17 45 53.36604 −23 19 31.01138	1.7	51.386	0.68	−2.17		48.1	0.238	14.025	0	−23.3	5.4

Table 10 *continued on next page*

Table 10 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430604	2043-10-09 12:03:03.32	17 45 53.65096 −23 19 39.85402	5.5	8.684	2.22	22.71	5.462	−30.4	9.133	14.613	13.178	68.3	71.3
Pgt	4068802878095431168	17 45 53.67539 −23 19 31.17682	3.5	34.398	0.68	−2.17		−33.7	0.610	14.751	0	−23.3	5.4
J430605	2043-10-09 14:54:34.74	17 45 57.90861 −23 19 51.88526	3.1	18.436	2.21	22.76	5.463		9.590	14.296	13.033	25.4	71.2
Pt	4068755938480794880	17 45 57.96019 −23 19 33.46323	2.0	73.052	0.67	−2.17			0.338	14.436	0	−23.3	5.3
J430606	2043-10-09 18:19:29.80	17 46 03.08457 −23 19 38.08652	4.2	1.900	2.20	22.82	5.466	−5.2	7.988	13.503	12.098	334.0	71.1
Pgt	4068779337348350976	17 46 03.08987 −23 19 36.18793	2.5	7.532	0.67	−2.17		−8.7	1.025	13.646	0	−23.3	5.7
J430607	2043-10-09 23:54:09.43	17 46 11.54251 −23 19 22.59798	2.4	18.037	182.19	22.92	5.469		9.809	13.195	12.224	250.2	70.9
Pt	4068779199909425536	17 46 11.49246 −23 19 40.62157	1.5	71.542	0.65	−2.17			0.229	13.343	0	−23.3	7.1
J430608	2043-10-10 08:28:47.53	17 46 24.49528 −23 19 39.80524	7.3	7.600	182.16	23.07	5.474	29.6	9.569	14.936	13.299	121.2	70.6
Pgt	4068778791910416384	17 46 24.47449 −23 19 47.39951	4.6	30.172	0.63	−2.17		26.3	0.443	15.091	0	−23.3	10.4
J430609	2043-10-10 11:49:58.59	17 46 29.52925 −23 20 04.83893	3.7	14.814	2.14	23.13	5.476	−57.2	9.838	14.740	13.486	70.8	70.4
Pgt	4068778547074248192	17 46 29.56943 −23 19 50.03572	2.3	58.834	0.62	−2.17		−60.1	0.354	14.898	0	−23.3	11.9
J430610	2043-10-10 12:12:25.92	17 46 30.11209 −23 20 00.16720	3.1	9.845	2.14	23.14	5.476	−35.1	8.906	14.010	12.708	65.2	70.4
Pgt	4068778551454634112	17 46 30.13880 −23 19 50.32948	1.8	39.101	0.62	−2.16		−38.2	0.591	14.168	0	−23.3	12.0
J430611	2043-10-10 13:05:57.59	17 46 31.49336 −23 19 52.21949	2.5	1.191	2.14	23.15	5.477	−2.6	8.575	13.485	12.243	51.7	70.4
Pgt	4068778654533831424	17 46 31.49659 −23 19 51.02935	1.5	4.731	0.61	−2.16		−6.1	0.624	13.644	0	−23.3	12.4
J430612*	2043-10-10 14:49:59.78	17 46 34.16535 −23 19 42.23395	5.0	10.161	182.14	23.18	5.478	39.5	9.449	14.609	13.187	25.7	70.3
Pgt	4068778650153561472	17 46 34.13782 −23 19 52.38806	3.0	40.370	0.61	−2.16		36.3	0.428	14.769	0	−23.3	13.2
J430613	2043-10-10 17:52:31.21	17 46 38.74977 −23 20 05.54934	3.2	10.790	2.12	23.24	5.480	−38.9	9.530	14.471	13.208	339.9	70.2
Pgt	4068775733955874176	17 46 38.77879 −23 19 54.76675	1.9	42.882	0.60	−2.16		−42.0	0.389	14.634	0	−23.3	14.6
J430614	2043-10-10 20:20:07.32	17 46 42.50393 −23 20 09.55828	3.3	12.881	2.11	23.28	5.481	−47.9	9.985	14.527	13.358	303.0	70.1
Pgt	4068775665236301440	17 46 42.53844 −23 19 56.68562	2.0	51.208	0.59	−2.16		−50.9	0.290	14.692	0	−23.3	15.7
J430615	2043-10-11 00:04:32.52	17 46 48.26411 −23 20 00.33190	6.8	0.737	2.10	23.34	5.483	−0.9	9.198	14.965	13.511	246.7	70.0
Pgt	4068776970906242176	17 46 48.26608 −23 19 59.59500	4.3	2.933	0.58	−2.16		−4.4		15.133	0	−23.3	17.5
J430616*	2043-10-11 09:32:38.41	17 47 02.86347 −23 19 52.65069	16.3	14.274	182.08	23.51	5.489	57.5	7.658	14.292	12.639	104.4	69.7
Pgt	4068776210655547264	17 47 02.82587 −23 20 06.91545	9.3	56.827	0.56	−2.16		54.6		14.468	0	−23.4	22.0
J430617*	2043-10-11 20:49:07.73	17 47 20.28031 −23 20 14.44881	6.6	1.100	182.04	23.70	5.496	5.7	9.588	14.476	13.186	294.9	69.3
Pgt	4068764704474798464	17 47 20.27747 −23 20 15.54816	3.9	4.385	0.53	−2.16		2.3	0.370	14.660	0	−23.4	27.6
J430618	2043-10-12 00:43:52.75	17 47 26.40599 −23 20 01.58560	5.6	16.947	182.03	23.77	5.498	74.3	9.011	14.714	13.282	236.0	69.1
Pgt	4068770541263316096	17 47 26.36239 −23 20 18.52185	3.5	67.578	0.52	−2.16		71.6	0.763	14.901	0	−23.4	29.5
J430619	2043-10-12 02:52:42.85	17 47 29.73317 −23 20 10.41235	2.8	9.743	182.02	23.81	5.499	38.0	8.994	13.443	12.289	203.7	69.1
Pgt	4068770339473880192	17 47 29.70822 −23 20 20.14897	1.7	38.860	0.51	−2.16		34.8	0.458	13.633	0	−23.4	30.6
J430620	2043-10-12 03:10:55.44	17 47 30.17473 −23 20 23.01911	7.1	2.642	2.02	23.81	5.500	−8.0	9.010	14.845	13.391	199.2	69.0
Pgt	4068770339473856000	17 47 30.18149 −23 20 20.37867	4.3	10.539	0.51	−2.16		−11.4	0.784	15.034	0	−23.4	30.7
J430621	2043-10-12 07:49:10.93	17 47 37.46544 −23 20 07.75339	4.1	16.136	182.01	23.89	5.502	68.3	9.533	14.710	13.392	129.5	68.9
Pgt	4068769652279001088	17 47 37.42440 −23 20 23.87984	2.6	64.396	0.50	−2.16		65.5	0.439	14.903	0	−23.4	33.1
J430622	2043-10-12 16:04:41.57	17 47 50.41649 −23 20 12.87935	6.6	17.204	181.98	24.03	5.507	77.0	9.117	14.922	13.456	5.3	68.6
Pgt	4068769789717725312	17 47 50.37332 −23 20 30.07340	3.9	68.719	0.47	−2.16		74.4		15.121	0	−23.4	37.3
J430623	2043-10-12 18:59:14.16	17 47 54.99348 −23 20 14.83919	5.8	17.413	181.97	24.08	5.509	79.4	9.465	14.886	13.468	321.6	68.5
Pgt	4068769755357909888	17 47 54.94999 −23 20 32.24238	3.7	69.576	0.46	−2.16		76.8		15.088	0	−23.4	38.8
J430624	2043-10-13 02:07:45.43	17 48 06.24950 −23 20 25.61931	7.2	11.927	181.95	24.20	5.513	47.0	8.173	13.994	12.497	214.2	68.2
Pgt	4068766869076973952	17 48 06.22009 −23 20 37.53908	4.3	47.690	0.44	−2.16		44.0	1.135	14.201	0	−23.4	42.5
J430625	2043-10-13 03:23:35.01	17 48 08.20658 −23 20 43.66818	3.4	5.199	1.94	24.23	5.514	−17.5	8.693	10.206	9.692	195.2	68.2
Pgt	4068766662981221120	17 48 08.21934 −23 20 38.47211	2.1	20.792	0.44	−2.16		−20.8	0.320	10.414	0	−23.4	43.1
J430626	2043-10-13 05:39:10.59	17 48 11.76906 −23 20 52.05294	4.8	11.922	1.93	24.26	5.515	−44.0	8.412	13.842	12.447	161.2	68.1
Pgt	4068768071730436352	17 48 11.79818 −23 20 40.13737	2.9	47.691	0.43	−2.15		−47.0		14.052	0	−23.4	44.3
J430627	2043-10-13 07:51:16.51	17 48 15.29891 −23 20 37.87468	3.9	3.883	181.93	24.30	5.517	15.9	9.649	14.781	13.466	128.1	68.0
Pgt	4068768101721817472	17 48 15.28944 −23 20 41.75578	2.4	15.537	0.43	−2.15		12.6	0.420	14.992	0	−23.4	45.4
J430628	2043-10-13 12:03:45.80	17 48 21.93716 −23 21 00.61897	9.9	15.789	1.91	24.37	5.519	−63.6	7.471	14.777	13.174	64.8	67.9
Pgt	4068767384536786432	17 48 21.97529 −23 20 44.83825	5.9	63.203	0.42	−2.15		−66.3		14.992	0	−23.4	47.7

Table 10 *continued on next page*

Table 10 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430629	2043-10-13 18:03:57.97	17 48 31.50208 −23 21 06.13499	9.4	16.933	1.89	24.48	5.523	−72.2	8.332	14.883	13.324	334.6	67.7
Pgt	4068767144018500224	17 48 31.54255 −23 20 49.21072	5.2	67.826	0.40	−2.15		−74.9		15.102	0	−23.4	50.8
J430630	2043-10-13 18:52:32.34	17 48 32.84593 −23 20 45.36197	3.9	4.439	181.89	24.49	5.523	18.0	9.722	14.762	13.502	322.4	67.6
Pgt	4068767521975635968	17 48 32.83530 −23 20 49.79807	2.2	17.780	0.40	−2.15		14.7		14.982	0	−23.4	51.3
J430631	2043-10-13 22:26:13.37	17 48 38.57086 −23 20 35.16519	8.3	17.220	181.88	24.55	5.525	77.8	8.109	14.200	12.695	268.9	67.5
Pgt	4068579883499479680	17 48 38.52981 −23 20 52.37548	4.9	69.004	0.39	−2.15		75.1		14.422	0	−23.4	53.2
J430632	2043-10-13 23:10:14.77	17 48 39.71669 −23 20 47.77405	4.8	5.134	181.88	24.56	5.526	20.6	7.539	13.202	11.779	257.8	67.5
Pgt	4068579883499476864	17 48 39.70449 −23 20 52.90516	2.8	20.575	0.38	−2.15		17.3	1.243	13.425	0	−23.4	53.6
J430633*	2043-10-15 02:19:38.40	17 49 23.55905 −23 21 01.65287	5.7	10.538	181.79	25.02	5.542	41.5	9.258	14.547	13.198	209.6	66.5
Pgt	4068670039066225152	17 49 23.53518 −23 21 12.18558	3.9	42.353	0.31	−2.15		38.4	0.522	14.790	0	−23.4	68.4
J430634	2043-10-15 02:33:35.69	17 49 23.95367 −23 20 54.64646	8.8	17.710	181.79	25.02	5.542	86.1	8.053	14.504	12.961	206.1	66.5
Pgt	4068670043429853184	17 49 23.91352 −23 21 12.34793	6.1	71.182	0.30	−2.15		83.7		14.747	0	−23.4	68.5
J430635	2043-10-15 06:22:15.58	17 49 30.08079 −23 21 32.61868	3.2	17.626	1.77	25.09	5.544	−81.8	8.140	13.321	12.007	148.8	66.4
Pgt	4068669867224473088	17 49 30.12026 −23 21 15.00145	2.0	70.871	0.29	−2.15		−84.3	0.865	13.567	0	−23.4	70.6
J430636	2043-10-15 06:49:11.54	17 49 30.83374 −23 21 23.54626	3.8	8.237	1.77	25.10	5.544	−29.2	9.909	14.466	13.278	142.0	66.4
Pgt	4068669871631007744	17 49 30.85220 −23 21 15.31314	2.3	33.122	0.29	−2.15		−32.4	0.302	14.712	0	−23.4	70.9
J430637*	2043-10-15 07:44:27.32	17 49 32.31820 −23 21 32.25300	6.5	16.309	1.76	25.11	5.545	−67.7	9.568	12.485	11.651	128.2	66.4
Pgt	4068669867220279680	17 49 32.35464 −23 21 15.95212	4.0	65.585	0.29	−2.15		−70.3	0.260	12.733	0	−23.4	71.4
J430638	2043-10-15 13:36:29.99	17 49 41.93895 −23 21 22.40790	4.7	2.404	1.75	25.21	5.548	−7.2	9.344	14.870	13.516	40.0	66.1
Pgt	4068670558825603968	17 49 41.94427 −23 21 20.00471	2.8	9.675	0.27	−2.15		−10.5	0.568	15.121	0	−23.4	74.7
J430639	2043-10-15 21:09:27.50	17 49 54.33655 −23 21 22.06302	5.4	3.111	181.72	25.34	5.553	13.2	8.830	14.756	13.340	286.5	65.9
Pgt	4068670382642732160	17 49 54.32975 −23 21 25.17276	3.2	12.529	0.25	−2.14		9.8		15.013	0	−23.4	79.0
J430640	2043-10-15 22:23:32.13	17 49 56.38891 −23 21 12.90114	4.5	13.118	181.72	25.36	5.553	52.7	9.259	14.778	13.435	267.9	65.8
Pgt	4068670387026728320	17 49 56.36027 −23 21 26.01294	2.7	52.834	0.25	−2.14		49.8	0.606	15.036	0	−23.4	79.7
J430641*	2043-10-15 23:05:38.06	17 49 57.47909 −23 21 42.96433	8.2	16.482	1.71	25.37	5.554	−69.2	8.786	14.841	13.383	257.3	65.8
Pgt	4068670387026689152	17 49 57.51486 −23 21 26.48979	5.7	66.388	0.24	−2.14		−71.9	0.742	15.099	0	−23.4	80.1
J430642	2043-10-16 05:52:05.24	17 50 08.66502 −23 21 40.44339	3.5	9.377	1.69	25.48	5.558	−33.8	9.393	14.244	13.024	155.5	65.6
Pgt	4068658979589512576	17 50 08.68513 −23 21 31.06998	2.1	37.799	0.22	−2.14		−36.9	0.424	14.507	0	−23.4	84.0
J430643	2043-10-16 07:30:55.75	17 50 11.39583 −23 21 37.77683	7.3	5.602	1.69	25.51	5.559	−19.2	8.494	14.716	13.200	130.7	65.5
Pgt	4068658872131140736	17 50 11.40781 −23 21 32.17729	4.4	22.584	0.22	−2.14		−22.4		14.980	0	−23.4	85.0
J430644	2043-10-17 09:54:21.79	17 50 55.37411 −23 21 42.04380	3.9	7.522	181.60	25.95	5.574	29.8	8.249	13.916	12.550	94.0	64.6
Pgt	4068661075535231744	17 50 55.35882 −23 21 49.56302	2.4	30.409	0.14	−2.14		26.6	0.960	14.199	0	−23.4	100.5
J430645	2043-10-18 04:59:37.43	17 51 27.56793 −23 21 46.34391	3.9	15.372	181.54	26.26	5.585	64.9	9.722	14.578	13.338	167.0	63.9
Pgt	4068614964757908480	17 51 27.53787 −23 22 01.71052	2.7	62.265	0.08	−2.14		62.2	0.382	14.874	0	−23.4	112.0
J430646	2043-10-18 10:03:37.84	17 51 36.16638 −23 21 48.03792	3.6	16.841	181.53	26.34	5.588	75.8	7.984	14.870	12.974	90.8	63.8
Pgt	4068614896038325632	17 51 36.13380 −23 22 04.87301	2.8	68.250	0.07	−2.13		73.2		15.169	0	−23.4	115.1
J430647	2043-10-18 15:03:01.57	17 51 44.61102 −23 22 13.43156	8.3	5.472	1.50	26.42	5.591	−18.8	7.046	14.001	12.416	15.8	63.6
Pgt	4068614105672139264	17 51 44.62146 −23 22 07.96178	5.2	22.186	0.05	−2.13		−22.0	2.833	14.303	0	−23.4	118.2
J430648	2043-10-18 19:01:28.14	17 51 51.40011 −23 22 08.70536	6.1	1.699	181.49	26.49	5.593	8.0	8.056	14.204	12.733	316.1	63.4
Pgt	4068637500350632704	17 51 51.39690 −23 22 10.40329	3.9	6.890	0.04	−2.13		4.7		14.509	0	−23.4	120.6
J430649	2043-10-18 23:39:39.41	17 51 59.32112 −23 22 12.30635	8.5	0.925	181.48	26.56	5.595	5.1	7.277	14.175	12.589	246.4	63.3
Pgt	4068637367310925568	17 51 59.31939 −23 22 13.23091	5.5	3.753	0.03	−2.13		1.8		14.483	0	−23.4	123.4
J430650	2043-10-19 04:14:38.24	17 52 07.15027 −23 22 26.25131	2.6	10.251	1.46	26.64	5.598	−37.7	9.953	13.988	13.091	177.5	63.1
Pgt	4068634378013603840	17 52 07.16923 −23 22 16.00367	1.5	41.620	0.01	−2.13		−40.7		14.299	0	−23.4	126.3
J430651	2043-10-19 04:16:03.10	17 52 07.19583 −23 22 23.48383	1.9	7.468	1.46	26.64	5.598	−26.5	9.885	12.478	11.661	177.1	63.1
Pgt	4068634373610555264	17 52 07.20965 −23 22 16.01787	1.2	30.323	0.01	−2.13		−29.7	0.195	12.789	0	−23.4	126.3
J430652	2043-10-20 17:26:47.47	17 53 11.53954 −23 22 52.66504	3.5	14.999	1.33	27.24	5.619	−60.5	9.307	14.500	13.200	338.2	61.8
Pgt	4068622833139709440	17 53 11.56491 −23 22 37.67046	2.2	61.125	−0.10	−2.13		−63.2	0.470	14.835	0	−23.4	149.0
J430653	2043-10-21 01:24:31.24	17 53 25.52169 −23 22 30.37134	3.8	11.740	181.31	27.37	5.624	47.2	9.513	14.719	13.432	218.5	61.6
Pgt	4068625616279420288	17 53 25.50213 −23 22 42.10852	2.6	47.884	−0.13	−2.12		44.3	0.474	15.060	0	−23.4	153.8

Table 10 *continued on next page*

Table 10 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430654	2043-10-21 14:49:33.59	17 53 49.08105 −23 23 08.25556	8.2	18.837	1.26	27.58	5.631		7.138	13.474	11.976	16.8	61.1
P	4068625066523454336	17 53 49.11119 −23 22 49.42302	5.2	76.931	−0.17	−2.12			1.692	13.823	0	−23.4	161.8
J430655	2043-10-21 20:27:33.02	17 53 59.09450 −23 22 36.22630	8.2	16.209	181.25	27.67	5.634	71.5	7.004	12.862	11.413	292.1	60.9
Pgt	4068626299081328768	17 53 59.06879 −23 22 52.43176	5.3	66.236	−0.19	−2.12		68.9	1.762	13.214	0	−23.4	165.0
J430656	2043-10-21 20:30:11.29	17 53 59.12602 −23 23 05.50427	6.7	13.052	1.24	27.67	5.634	−50.4	9.196	14.974	13.607	291.4	60.9
Pgt	4068626299081315072	17 53 59.14661 −23 22 52.45509	4.1	53.336	−0.19	−2.12		−53.2	0.710	15.327	0	−23.4	165.1
J430657	2043-10-22 01:45:17.90	17 54 08.48133 −23 22 38.08044	13.1	17.150	181.23	27.75	5.637	81.2	6.960	14.859	13.218	212.5	60.7
Pgt	4067875749284046976	17 54 08.45451 −23 22 55.22643	8.8	70.117	−0.21	−2.12		78.6		15.214	0	−23.4	168.0
J430658	2043-10-22 10:43:49.15	17 54 24.40723 −23 23 05.60149	11.7	5.716	1.20	27.90	5.642	−20.0	6.104	13.953	12.293	77.5	60.4
Pgt	4067875852363164928	17 54 24.41591 −23 22 59.88710	7.6	23.389	−0.23	−2.12		−23.1		14.314	0	−23.4	172.5
J430659	2043-10-22 12:09:45.58	17 54 26.98783 −23 22 48.54350	3.2	12.081	181.20	27.92	5.643	48.9	9.911	14.571	13.847	56.0	60.4
Pgt	4067875848029453184	17 54 26.96949 −23 23 00.62198	2.0	49.444	−0.24	−2.12		46.0	0.277	14.933	0	−23.4	173.1
J430660	2043-10-22 12:15:40.82	17 54 27.15424 −23 22 54.89646	12.1	5.777	181.20	27.92	5.643	23.4	5.989	13.831	12.175	54.5	60.3
Pgt	4067875096448910720	17 54 27.14548 −23 23 00.67252	7.7	23.645	−0.24	−2.12		20.2		14.193	0	−23.4	173.1
J430661	2043-10-22 14:48:59.03	17 54 31.68653 −23 23 14.41605	2.5	12.442	1.18	27.96	5.644	−47.7	9.832	13.879	12.781	16.1	60.3
Pgt	4067875130809046912	17 54 31.70519 −23 23 01.97698	1.6	50.933	−0.25	−2.12		−50.5	0.298	14.243	0	−23.4	174.0
J430662	2043-10-23 02:05:31.44	17 54 51.86948 −23 23 24.25897	3.1	16.624	1.14	28.14	5.651	−73.0	9.644	14.176	12.983	206.6	59.9
Pgt	4069373215403749632	17 54 51.89359 −23 23 07.63874	1.9	68.127	−0.28	−2.12		−75.5	0.374	14.547	0	−23.4	173.5
J430663	2043-10-23 04:28:06.67	17 54 56.16740 −23 23 05.14413	7.7	3.669	181.14	28.18	5.652	15.4	7.817	14.618	13.107	170.9	59.8
Pgt	4069373245428328064	17 54 56.16210 −23 23 08.81208	4.9	15.039	−0.29	−2.12		12.2	1.886	14.990	0	−23.4	172.6
J430664	2043-10-23 16:13:11.58	17 55 17.33333 −23 23 18.03200	2.8	3.521	1.10	28.36	5.658	−11.7	9.020	13.995	12.759	354.2	59.4
Pgt	4069372665647876992	17 55 17.33824 −23 23 14.51122	1.9	14.451	−0.33	−2.11		−14.9	0.528	14.375	0	−23.4	166.9
J430665	2043-10-23 16:36:46.36	17 55 18.04125 −23 23 19.83111	2.5	5.133	1.10	28.37	5.659	−17.8	9.171	12.967	11.912	348.3	59.4
Pgt	4069372489514078208	17 55 18.04840 −23 23 14.69884	1.6	21.067	−0.33	−2.11		−21.0	0.397	13.346	0	−23.4	166.6
J430666	2043-10-24 00:48:19.63	17 55 32.89704 −23 23 07.29909	3.5	11.269	181.07	28.50	5.663	45.5	8.026	13.481	12.135	225.1	59.1
Pgt	4069362289005901312	17 55 32.88171 −23 23 18.56582	2.4	46.283	−0.36	−2.11		42.6	1.017	13.866	0	−23.4	162.2
J430667*	2043-10-24 06:32:23.69	17 55 43.30915 −23 23 12.53300	4.6	8.690	181.05	28.59	5.666	34.8	9.497	13.800	12.673	138.9	58.9
Pgt	4069362044167593344	17 55 43.29755 −23 23 21.22198	3.4	35.714	−0.38	−2.11		31.8	0.365	14.188	0	−23.4	159.0
J430668	2043-10-24 19:14:08.90	17 56 06.45676 −23 23 25.40408	3.5	1.548	181.01	28.79	5.673	7.5	8.644	13.925	12.639	308.0	58.4
Pgt	4069367305527401728	17 56 06.45478 −23 23 26.95205	2.1	6.370	−0.42	−2.11		4.2	0.687	14.321	0	−23.4	151.9
J430669	2043-10-24 20:32:40.71	17 56 08.86563 −23 23 14.97793	7.8	12.555	181.01	28.81	5.674	51.3	8.272	14.638	13.151	288.4	58.4
Pgt	4069367305527389312	17 56 08.84962 −23 23 27.53085	5.3	51.664	−0.42	−2.11		48.5	1.280	15.035	0	−23.4	151.2
J430670	2043-10-24 22:13:49.35	17 56 11.95845 −23 23 10.70495	2.9	17.571	181.00	28.83	5.675		9.695	13.646	12.568	263.0	58.3
Pt	4069364384949607936	17 56 11.93614 −23 23 28.27301	1.9	72.316	−0.43	−2.11			0.314	14.043	0	−23.4	150.3
J430671	2043-10-25 04:20:11.50	17 56 23.13741 −23 23 29.45645	7.2	1.474	180.98	28.93	5.678	7.2	8.079	14.675	13.202	171.2	58.1
Pgt	4069364247510577152	17 56 23.13558 −23 23 30.93005	5.1	6.069	−0.45	−2.11		3.9	1.520	15.075	0	−23.4	146.9
J430672	2043-10-25 07:51:26.90	17 56 29.61752 −23 23 23.95108	3.7	8.490	180.97	28.98	5.680	34.1	5.582	7.607	6.927	118.3	58.0
Pg	4069364556748188416	17 56 29.60711 −23 23 32.43980	2.5	34.974	−0.46	−2.11		31.1	1.560	8.010	0	−23.4	144.9
J430673	2043-10-27 05:46:00.37	17 57 54.91771 −23 23 36.24026	4.0	14.351	180.81	29.69	5.704	60.7	7.082	12.313	11.008	148.1	56.4
Pgt	4069338164131971456	17 57 54.90298 −23 23 50.58965	2.7	59.374	−0.61	−2.10		58.1	1.516	12.741	0	−23.4	120.1
J430674	2043-10-27 19:42:04.76	17 58 21.12778 −23 23 50.16498	3.1	5.354	180.76	29.90	5.712	22.0	9.995	13.876	12.804	298.6	56.0
Pgt	4069326932833151488	17 58 21.12263 −23 23 55.51819	2.2	22.178	−0.66	−2.10		18.9	0.266	14.313	0	−23.4	112.7
J430675*	2043-10-27 22:41:37.92	17 58 26.78809 −23 23 41.16734	3.6	15.374	180.75	29.94	5.713	67.1	9.769	13.933	12.835	253.7	55.9
Pgt	4069326829753910400	17 58 26.77346 −23 23 56.54045	2.5	63.708	−0.67	−2.10		64.5		14.371	0	−23.4	111.1
J430676	2043-10-28 04:19:47.40	17 58 37.44354 −23 23 49.20379	11.9	9.228	180.73	30.03	5.716	37.3	7.462	14.997	13.351	168.9	55.7
Pgt	4069326417436986368	17 58 37.43500 −23 23 58.43056	8.1	38.257	−0.69	−2.09		34.3		15.438	0	−23.4	108.2
J430677	2043-10-28 21:07:29.02	17 59 09.35139 −23 24 04.68741	3.0	0.900	0.67	30.28	5.725	−1.8	8.655	14.423	13.175	276.5	55.1
Pgt	4069329028776946432	17 59 09.35215 −23 24 03.78775	2.2	3.736	−0.75	−2.09		−5.0	0.736	14.873	0	−23.4	99.5
J430678	2043-10-29 12:29:57.77	17 59 38.76378 −23 24 04.12761	7.9	4.198	180.62	30.51	5.733	17.6	6.561	13.992	12.464	45.3	54.6
Pgt	4069140771748932096	17 59 38.76050 −23 24 08.32587	5.5	17.458	−0.80	−2.09		14.5	3.548	14.451	0	−23.4	91.6

Table 10 *continued on next page*

Table 10 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430679*	2043-10-30 02:45:49.85	18 00 06.20072 −23 24 22.70634	29.4	10.490	0.56	30.72	5.741	−39.9	8.355	12.819	11.601	190.9	54.1
Pgt	4069141630743339136	18 00 06.20821 −23 24 12.21675	20.4	43.675	−0.85	−2.09		−42.7	0.673	13.285	0	−23.4	84.3
J430680	2043-11-01 06:11:56.49	18 01 46.44648 −23 24 21.04602	2.3	2.565	180.38	31.47	5.767	11.4	8.887	13.182	12.072	137.7	52.3
Pgt	4069217737564936064	18 01 46.44524 −23 24 23.61057	1.6	10.726	−1.03	−2.08		8.2	0.508	13.674	0	−23.4	58.7
J430681	2043-11-01 17:47:39.56	18 02 09.31003 −23 24 26.50036	4.9	0.907	0.34	31.64	5.773	−1.9	7.536	13.895	12.489	323.4	51.9
Pgt	4069223059009241856	18 02 09.31042 −23 24 25.59306	3.4	3.799	−1.07	−2.07		−5.1	1.651	14.393	0	−23.4	53.0
J430682	2043-11-02 01:01:26.81	18 02 23.61094 −23 24 40.20102	4.0	13.484	0.31	31.74	5.776	−54.3	9.614	14.553	13.210	214.7	51.7
Pgt	4069222857165892096	18 02 23.61627 −23 24 26.71750	2.7	56.487	−1.09	−2.07		−57.0	0.482	15.054	0	−23.4	49.4
J430683	2043-11-02 06:02:45.35	18 02 33.57140 −23 24 38.14622	3.8	10.699	0.29	31.81	5.779	−41.1	9.745	14.982	13.698	139.2	51.5
Pgt	4069177364869798912	18 02 33.57539 −23 24 27.44754	2.6	44.840	−1.11	−2.07		−43.9	0.429	15.486	0	−23.4	47.0
J430684	2043-11-02 14:35:09.66	18 02 50.54965 −23 24 40.17035	2.3	11.578	0.26	31.93	5.783	−45.1	8.645	13.062	12.065	10.8	51.2
Pgt	4069176501566727040	18 02 50.55351 −23 24 28.59220	1.6	48.561	−1.14	−2.07		−47.9	0.559	13.570	0	−23.4	42.8
J430685	2043-11-02 16:16:50.37	18 02 53.92454 −23 24 41.62785	3.8	12.823	0.26	31.96	5.784	−51.0	8.537	14.267	12.927	345.3	51.1
Pg	4069176815113951232	18 02 53.92872 −23 24 28.80476	2.6	53.791	−1.15	−2.07		−53.7	0.888	14.776	0	−23.4	42.0
J430686	2043-11-02 17:02:29.13	18 02 55.44620 −23 24 23.96695	2.9	4.932	180.26	31.97	5.784	20.6	9.783	13.990	12.983	333.9	51.1
Pgt	4069176810804383232	18 02 55.44459 −23 24 28.89860	2.1	20.689	−1.15	−2.07		17.5	0.307	14.499	0	−23.4	41.7
J430687	2043-11-03 01:20:14.82	18 03 12.00108 −23 24 30.30278	5.6	0.444	0.23	32.08	5.788	−0.1	7.607	13.377	11.991	209.2	50.8
Pgt	4069173757097214336	18 03 12.00121 −23 24 29.85851	3.4	1.865	−1.18	−2.07		−3.3	1.411	13.890	0	−23.4	37.6
J430688	2043-11-03 06:39:06.24	18 03 22.63259 −23 24 29.03406	3.4	1.378	180.21	32.16	5.791	6.9	9.122	13.888	12.705	129.3	50.7
Pgt	4069196984281865600	18 03 22.63223 −23 24 30.41214	1.8	5.788	−1.20	−2.07		3.7	0.487	14.404	0	−23.4	35.1
J430689	2043-11-03 22:08:22.14	18 03 53.72503 −23 24 41.97492	2.9	10.224	0.15	32.37	5.798	−39.2	8.619	13.389	12.180	256.5	50.1
Pgt	4069184752215370112	18 03 53.72696 −23 24 31.75056	1.8	42.998	−1.26	−2.06		−42.0	0.654	13.912	0	−23.4	27.7
J430690	2043-11-04 00:22:41.37	18 03 58.23223 −23 24 49.82784	2.5	17.918	0.14	32.40	5.799		9.446	13.353	12.309	222.8	50.0
Pt	4069186156653196160	18 03 58.23540 −23 24 31.90985	1.6	75.367	−1.26	−2.06				13.877	0	−23.4	26.6
J430691	2043-11-04 05:39:36.92	18 04 08.88661 −23 24 33.39641	2.7	1.145	0.12	32.48	5.802	−2.8	8.099	12.731	11.556	143.4	49.9
Pgt	4069186019214256640	18 04 08.88679 −23 24 32.25115	1.8	4.819	−1.28	−2.06		−6.0	0.788	13.257	0	−23.4	24.1
J430692	2043-11-04 06:55:46.31	18 04 11.45031 −23 24 24.82310	2.6	7.503	180.12	32.49	5.803	30.8	9.240	13.846	12.679	124.3	49.8
Pgt	4069185301970598016	18 04 11.44917 −23 24 32.32591	1.8	31.576	−1.29	−2.06		27.8	0.460	14.373	0	−23.4	23.5
J430693	2043-11-04 14:40:20.55	18 04 27.10236 −23 24 49.27415	2.3	16.553	0.09	32.60	5.806	−77.3	9.926	13.366	12.412	7.9	49.6
Pgt	4069185366379200256	18 04 27.10421 −23 24 32.72091	1.6	69.710	−1.32	−2.06		−79.8		13.896	0	−23.4	19.9
J430694	2043-11-05 08:18:10.37	18 05 02.90296 −23 24 22.73481	3.5	10.492	180.03	32.84	5.815	43.3	9.436	14.660	13.394	102.9	49.0
Pg	4069187844590945536	18 05 02.90258 −23 24 33.22653	2.5	44.248	−1.38	−2.06		40.5	0.491	15.198	0	−23.4	11.9
J430695	2043-11-05 20:17:09.20	18 05 27.35415 −23 24 27.51592	2.3	5.738	179.98	33.00	5.821	23.9	9.411	13.413	12.357	282.8	48.6
Pgt	4066186521460675200	18 05 27.35427 −23 24 33.25432	1.8	24.225	−1.42	−2.06		20.8		13.957	0	−23.4	7.1
J430696	2043-11-06 07:26:06.93	18 05 50.19186 −23 24 30.76023	3.9	2.287	179.94	33.15	5.826	10.5	7.843	12.838	11.583	115.2	48.2
Pg	4066185971705166336	18 05 50.19203 −23 24 33.04705	2.8	9.663	−1.47	−2.05		7.3		13.387	0	−23.4	5.2
J430697	2043-11-06 08:50:19.84	18 05 53.07193 −23 24 20.53419	4.0	12.471	179.94	33.17	5.827	52.5	9.942	14.669	13.471	94.1	48.1
Pgt	4066186001737562624	18 05 53.07291 −23 24 33.00492	2.8	52.699	−1.47	−2.05		49.7	0.349	15.218	0	−23.4	5.3
J430698	2043-11-06 22:08:51.96	18 06 20.45208 −23 24 21.50652	3.4	10.920	179.89	33.35	5.833	45.3	9.980	14.560	13.937	254.0	47.7
Pgt	4066557469211142912	18 06 20.45361 −23 24 32.42650	2.3	46.196	−1.52	−2.05		42.5	0.277	15.115	0	−23.4	9.2
J430699	2043-11-06 23:05:01.37	18 06 22.38463 −23 24 39.95684	2.6	7.583	359.88	33.36	5.833	−28.3	9.088	11.059	10.395	239.9	47.6
Pgt	4066557396150859520	18 06 22.38350 −23 24 32.37360	1.7	32.082	−1.52	−2.05		−31.3	0.315	11.615	0	−23.4	9.6
J430700	2043-11-07 06:09:35.21	18 06 36.99531 −23 24 47.00789	2.6	15.087	359.86	33.46	5.837	−64.8	9.443	13.793	12.678	133.6	47.4
Pgt	4066557641009807232	18 06 36.99255 −23 24 31.92139	1.7	63.863	−1.55	−2.05		−67.3	0.393	14.351	0	−23.4	12.7

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

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

Table 11. Geocentric Jupiter Occultation Predictions 2023 to 2050 for K ≤ 10 (part 11 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J430701	2043-11-07 06:47:51.93	18 06 38.30913 −23 24 19.76215	2.4	12.114	179.86	33.46	5.837	50.9	8.410	13.416	12.176	124.0	47.4
Pg	4066557675369546880	18 06 38.31131 −23 24 31.87607	1.6	51.282	−1.55	−2.05		48.1	0.769	13.975	0	−23.4	12.9
J430702	2043-11-07 09:10:57.76	18 06 43.24185 −23 24 22.60068	3.5	9.099	179.85	33.50	5.838	37.6	9.715	14.543	13.317	88.1	47.3
Pgt	4066547401784787456	18 06 43.24360 −23 24 31.69994	2.4	38.528	−1.56	−2.05		34.6	0.380	15.103	0	−23.4	14.0
J430703*	2043-11-07 17:37:47.19	18 07 00.74087 −23 24 23.00022	21.5	7.991	179.82	33.61	5.842	33.0	6.796	14.710	13.051	321.1	47.0
Pgt	4066546474095635712	18 07 00.74273 −23 24 30.99085	15.1	33.856	−1.59	−2.05		30.0		15.273	0	−23.4	17.9
J430704	2043-11-07 18:44:54.06	18 07 03.06407 −23 24 33.37789	4.1	2.491	359.81	33.62	5.842	−8.1	9.125	14.438	13.139	304.3	47.0
Pgt	4066546474096013952	18 07 03.06347 −23 24 30.88694	2.7	10.555	−1.60	−2.05		−11.3		15.002	0	−23.4	18.5
J430705	2043-11-08 02:30:20.74	18 07 19.18163 −23 24 35.59563	2.7	5.494	359.78	33.72	5.846	−19.9	8.989	13.384	12.232	187.7	46.7
Pgt	4066546641550777088	18 07 19.18011 −23 24 30.10161	1.9	23.294	−1.62	−2.05		−23.0	0.512	13.951	0	−23.4	22.2
J430706	2043-11-08 11:02:54.15	18 07 36.97414 −23 24 35.28444	3.6	6.179	359.75	33.83	5.850	−22.7	8.526	13.290	12.071	59.3	46.4
Pgt	4066549394672779264	18 07 36.97218 −23 24 29.10559	2.8	26.216	−1.66	−2.04		−25.8	0.665	13.861	0	−23.4	26.3
J430707	2043-11-09 08:50:12.66	18 08 22.56738 −23 24 43.90416	9.3	17.967	359.67	34.11	5.860		6.743	14.430	12.874	91.8	45.7
P	4066503215179507200	18 08 22.55980 −23 24 25.93766	7.0	76.359	−1.74	−2.04			3.674	15.009	0	−23.4	37.1
J430708	2043-11-09 18:16:33.95	18 08 42.40163 −23 24 23.74214	4.3	0.540	179.63	34.23	5.864	3.7	7.622	13.629	12.274	309.9	45.4
Pgt	4066502661085664768	18 08 42.40188 −23 24 24.28193	3.0	2.296	−1.77	−2.04		0.5	1.429	14.212	0	−23.4	41.9
J430709	2043-11-09 23:57:50.32	18 08 54.38360 −23 24 20.97899	8.3	2.222	179.61	34.31	5.867	10.3	8.170	14.951	13.445	224.4	45.2
Pgt	4066523178190170112	18 08 54.38469 −23 24 23.20079	6.0	9.454	−1.80	−2.04		7.1	1.532	15.537	0	−23.4	44.8
J440001	2044-03-17 07:07:08.54	20 07 53.97056 −20 24 16.48902	2.1	9.598	348.57	29.78	5.644	−34.3	6.658	10.110	9.130	20.3	57.0
Pgt	6866371023641606528	20 07 53.83529 −20 24 07.08161	1.4	39.290	−13.90	−1.16		−39.4	1.301	10.542	0	−20.3	81.7
J440002	2044-03-25 14:15:44.64	20 13 41.52833 −20 07 09.97838	2.1	10.053	168.18	26.68	5.529	40.6	8.886	11.355	10.599	266.4	63.8
Pgt	6854422836941617536	20 13 41.67454 −20 07 19.81783	1.6	40.309	−14.43	−1.10		35.2	0.354	11.668	0	−20.0	17.4
J440003	2044-04-29 09:53:03.94	20 31 09.74390 −19 14 25.13248	1.4	9.202	348.09	11.54	4.989	−26.6	9.912	12.284	11.559	302.1	93.8
Pgt	6859985506784302720	20 31 09.60982 −19 14 16.12873	1.0	33.296	−15.98	−0.87		−35.3		11.688	0	−19.1	115.7
J440004	2044-06-13 10:14:09.56	20 32 47.82908 −19 17 29.31435	1.7	7.814	342.66	−8.06	4.351	−21.4	8.900	10.191	9.711	252.9	136.7
Pgt	6859788625482710656	20 32 47.66458 −19 17 21.85548	1.3	24.661	−16.12	−0.72		−24.1	0.226	9.204	1	−19.1	13.3
J440005	2044-06-13 20:48:35.70	20 32 41.28919 −19 18 02.35839	2.2	11.833	342.73	−8.22	4.347	−33.7	9.876	11.380	10.836	93.8	137.2
Pgt	6859788552469380864	20 32 41.04108 −19 17 51.05896	1.7	37.303	−16.11	−0.72		−36.1		10.414	0	−19.1	8.2
J440006*	2044-06-15 17:11:35.15	20 32 11.82391 −19 20 02.28752	4.6	3.717	343.02	−8.86	4.327	−9.7	7.321	9.762	9.015	146.1	139.1
Pgt	6859970079261726208	20 32 11.74723 −19 19 58.73238	3.5	11.665	−16.07	−0.71		−11.7	0.590	8.878	0	−19.2	14.8
J440007	2044-07-21 22:36:50.52	20 16 22.78399 −20 20 21.45524	1.3	4.353	346.07	−16.05	4.110	−12.8	9.265	10.672	10.169	25.2	177.4
Pgt	6854374355350523136	20 16 22.70950 −20 20 17.23040	0.9	12.974	−14.67	−0.73		−11.1	0.190	10.433	0	−20.2	138.1
J440008	2044-07-28 17:09:57.89	20 12 44.85270 −20 32 52.22255	1.4	7.698	346.50	−15.98	4.110	−22.1	8.181	10.540	9.807	99.3	175.1
Pgt	6854311850689096448	20 12 44.72480 −20 32 44.73727	1.0	22.946	−14.35	−0.74		−20.2	0.360	10.296	0	−20.4	121.4
J440009	2044-08-02 02:23:15.19	20 10 25.14810 −20 40 18.71491	1.4	11.091	166.78	−15.67	4.117	29.8	9.931	12.398	11.647	316.1	170.4
Pgt	6854289486796823168	20 10 25.32889 −20 40 29.51190	0.9	33.120	−14.13	−0.75		31.8	0.162	12.133	0	−20.5	65.1
J440010	2044-08-17 07:01:39.06	20 03 02.40353 −21 04 25.01165	1.2	24.748	347.63	−13.16	4.186		9.637	12.155	11.391	229.7	154.1
Pt	6865862946190909056	20 03 02.02471 −21 04 00.83809	0.8	75.132	−13.45	−0.78			0.196	11.700	0	−20.9	127.2
J440011	2044-08-21 20:16:10.81	20 01 08.82010 −21 10 04.69824	1.6	18.849	347.84	−11.99	4.218	−58.3	9.006	10.773	10.171	26.1	149.3
Pgt	6866026292388236288	20 01 08.53628 −21 09 46.27217	1.1	57.668	−13.28	−0.79		−56.1	0.237	10.218	0	−21.0	165.6
J440012	2044-09-10 20:29:36.09	19 55 29.41829 −21 26 11.11877	1.7	7.216	168.53	−5.04	4.419	19.9	9.790	12.271	11.515	1.6	128.6
Pgt	6864469860659757312	19 55 29.52104 −21 26 18.19053	1.0	23.124	−12.74	−0.82		22.7	0.187	10.775	0	−21.3	92.4
J440013	2044-10-04 07:26:21.56	19 55 29.41830 −21 26 11.11922	1.8	7.840	168.66	5.44	4.738	26.4	9.790	12.271	11.515	174.3	105.6
Pgt	6864469860659757312	19 55 29.52869 −21 26 18.80575	1.1	26.941	−12.74	−0.82		23.4	0.200	10.856	0	−21.3	41.7
J440014	2044-10-24 01:02:24.80	20 01 08.82047 −21 10 04.70309	1.9	7.845	168.28	14.79	5.040	28.2	9.006	10.773	10.171	252.2	87.4
Pgt	6866026292388236288	20 01 08.93435 −21 10 12.38437	1.3	28.674	−13.28	−0.78		24.9	0.283	10.446	0	−21.0	51.7
J440015	2044-10-28 10:05:00.17	20 03 02.40346 −21 04 25.01550	1.5	15.557	168.14	16.83	5.107	58.7	9.637	12.155	11.391	112.7	83.5
Pgt	6865862946190909056	20 03 02.63189 −21 04 40.24055	1.0	57.625	−13.45	−0.77		55.6	0.240	11.967	0	−21.0	2.7

Table 11 *continued on next page*

Table 11 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J440016	2044-11-03 14:03:33.87	20 06 03.99467 −20 55 29.82147	1.7	11.126	167.90	19.63	5.201	41.3	9.827	12.161	11.433	47.8	78.1
Pgt	6865910293909834624	20 06 04.16107 −20 55 40.70053	1.3	41.970	−13.73	−0.75		37.9	0.216	12.141	0	−20.8	76.9
J440017	2044-11-04 13:21:33.88	20 06 35.00047 −20 54 14.22589	2.0	6.171	347.86	20.06	5.216	−19.7	6.551	9.090	8.310	57.4	77.2
Pgt	6865908404124358272	20 06 34.90784 −20 54 08.19252	1.4	23.346	−13.78	−0.75		−23.3	1.018	9.094	0	−20.8	90.2
J440018	2044-11-17 20:12:26.04	20 14 29.79043 −20 29 19.72479	1.7	17.357	167.25	25.75	5.410	75.8	8.313	10.826	10.064	303.6	65.7
Pgt	6854356488286659072	20 14 30.06311 −20 29 36.65327	1.1	68.104	−14.50	−0.69		72.7	0.487	11.101	0	−20.4	86.4
J440019	2044-11-25 07:30:24.91	20 19 37.57856 −20 12 56.63929	2.0	4.646	166.84	28.70	5.513	19.1	8.135	10.385	9.686	128.0	59.4
Pgt	6860182594240751616	20 19 37.65371 −20 13 01.16291	1.3	18.574	−14.97	−0.65		15.1	0.494	10.777	0	−20.1	3.8
J440020	2044-12-11 23:29:51.10	20 32 28.51657 −19 29 15.45822	2.3	16.578	345.85	34.44	5.716	−74.1	9.698	11.636	11.002	235.0	45.6
Pg	6859778867316950656	20 32 28.22995 −19 28 59.38293	1.7	68.729	−16.09	−0.55		−77.6		12.227	0	−19.3	131.1
J450001	2045-04-16 23:24:16.00	22 23 55.99937 −10 53 06.87893	2.7	2.904	159.64	31.65	5.579	14.4	6.305	8.822	8.076	140.0	53.0
Pgt	2614524988837532288	22 23 56.06794 −10 53 09.60116	2.6	11.749	−23.52	0.66		7.2	1.203	9.320	0	−10.7	49.1
J450002	2045-04-19 08:55:34.39	22 25 38.09936 −10 43 52.38253	2.8	0.953	339.61	30.84	5.549	0.1	9.219	11.299	10.639	355.2	54.9
Pgt	2602897172336866176	22 25 38.07682 −10 43 51.48894	2.6	3.836	−23.59	0.69		−7.2	0.281	11.769	0	−10.5	80.8
J450003	2045-04-21 01:37:46.93	22 26 49.16412 −10 37 32.18648	2.9	9.639	339.60	30.25	5.527	−32.8	6.824	8.917	8.249	103.3	56.2
Pgt	2602910813152994944	22 26 48.93620 −10 37 23.15170	2.9	38.638	−23.64	0.70		−39.6	0.858	9.367	0	−10.4	103.9
J450004	2045-09-03 10:19:11.65	22 33 41.12388 −10 31 16.26580	2.6	8.605	157.89	−15.83	3.997	21.0	5.663	8.127	7.389	201.2	175.2
Pgt	2602776092914341248	22 33 41.34351 −10 31 24.23785	2.4	24.947	−23.93	1.29		25.0	1.143	7.874	0	−10.3	82.5
J450005	2045-10-03 09:47:36.87	22 21 01.05021 −11 43 58.76953	1.6	22.136	340.17	−9.99	4.163	−74.7	9.209	10.467	10.014	176.4	142.8
Pgt	2602362710901995904	22 21 00.53895 −11 43 37.94600	1.5	66.831	−23.39	1.15		−68.2	0.180	9.713	0	−11.5	122.5
J450006*	2045-10-07 15:25:35.29	22 19 48.45121 −11 49 39.70389	4.9	14.160	160.68	−8.54	4.205	36.7	9.525	12.020	11.223	87.5	138.3
Pgt	2602339376344535808	22 19 48.77024 −11 49 53.06693	3.7	43.183	−23.33	1.13		44.9	0.207	11.096	0	−11.6	175.8
J450007	2045-12-08 05:38:20.25	22 27 14.62777 −10 56 13.17311	3.4	16.282	337.32	19.49	5.084	−59.4	9.989	11.348	10.851	175.4	78.6
Pgt	2602832133647589760	22 27 14.20150 −10 55 58.15029	2.5	60.030	−23.66	1.03		−61.3	0.145	11.320	0	−10.7	81.6
J450008	2045-12-17 09:27:21.07	22 32 00.17272 −10 27 00.43960	2.3	17.351	337.40	23.54	5.222	−68.2	9.047	11.403	10.684	110.3	70.6
Pgt	2602789252694164352	22 31 59.72076 −10 26 44.42029	2.1	65.717	−23.86	1.06		−70.5		11.580	0	−10.2	29.1
J450009	2045-12-27 09:45:44.07	22 38 00.92242 −09 50 01.64806	2.3	14.938	337.39	27.64	5.366	−56.4	9.444	10.738	10.280	97.4	62.0
Pgt	2608875702388652928	22 38 00.53391 −09 49 47.85777	2.0	58.135	−24.09	1.09		−59.2	0.207	11.090	0	−9.6	163.5
J460001	2046-01-09 14:52:16.43	22 47 02.35565 −08 53 59.36951	2.8	1.509	157.28	32.49	5.539	7.5	7.521	9.844	9.130	10.0	50.9
Pgt	2608675866150497280	22 47 02.39496 −08 54 00.76112	2.5	6.060	−24.41	1.16		3.6	0.664	10.371	0	−8.7	23.9
J460002	2046-01-10 21:22:04.38	22 47 57.89284 −08 48 14.50753	3.9	1.679	157.27	32.91	5.554	8.2	8.849	10.191	9.718	271.5	49.9
Pgt	2608637172790182016	22 47 57.93659 −08 48 16.05599	2.9	6.763	−24.45	1.17		4.2	0.292	10.732	0	−8.6	9.5
J460003	2046-01-15 06:27:55.56	22 51 13.68452 −08 28 11.47757	2.3	11.784	337.22	34.31	5.606	−44.0	9.433	10.667	10.222	131.5	46.3
Pgt	2610160103768886656	22 51 13.37703 −08 28 00.61228	2.0	47.910	−24.55	1.20		−47.6	0.214	11.253	0	−8.2	42.6
J460004**	2046-05-14 15:06:49.09	00 32 14.76718 +02 15 05.31389	5.9	9.856	157.51	34.64	5.624	40.4	9.230	10.640	10.155	269.4	45.1
Pgt	2547529653708976384	00 32 15.01877 +02 14 56.20732	4.6	40.201	−25.11	2.25		35.0	0.244	11.236	0	2.5	150.6
J460005*	2046-05-29 09:39:51.07	00 42 50.41666 +03 20 07.77520	4.4	8.590	157.94	30.02	5.449	34.6	8.007	8.933	8.584	339.2	56.4
Pgt	2551023592423593472	00 42 50.63211 +03 19 59.81368	3.8	33.946	−24.86	2.39		28.6	0.386	9.374	0	3.6	16.0
J460006	2046-06-17 01:18:39.02	00 54 19.91256 +04 28 37.85058	3.6	8.815	158.69	23.06	5.192	34.3	8.881	10.292	9.800	89.0	71.2
Pgt	2552568131382952192	00 54 20.12681 +04 28 29.63879	3.8	33.195	−24.54	2.55		27.4		10.447	0	4.7	127.4
J460007	2046-06-22 11:18:14.01	00 57 11.84127 +04 44 55.86761	2.9	7.898	338.97	20.86	5.113	−23.4	9.741	11.773	11.109	294.5	75.6
Pgt	2552224151746264704	00 57 11.65167 +04 45 03.23901	2.0	29.285	−24.44	2.59		−30.8		11.819	0	5.0	58.2
J460008	2046-06-27 10:59:02.74	00 59 36.42331 +04 58 58.87301	3.8	9.109	159.26	18.77	5.038	34.8	7.095	10.231	9.328	295.0	79.7
Pgt	2552249101212248576	00 59 36.63916 +04 58 50.35467	2.5	33.281	−24.36	2.63		27.0	0.862	10.162	0	5.2	6.3
J460009	2046-06-28 23:43:04.72	01 00 18.38277 +05 02 51.74415	2.5	5.501	159.36	18.11	5.015	22.5	6.984	9.333	8.616	102.6	81.0
Pgt	2552250716119601920	01 00 18.51252 +05 02 46.59617	1.9	20.007	−24.34	2.64		14.3	0.751	9.225	0	5.3	20.3
J460010	2046-08-23 19:25:54.57	01 08 31.79093 +05 37 17.84592	1.8	3.985	333.03	−6.53	4.218	−7.9	8.891	10.703	10.096	114.0	132.2
Pgt	2576175608103715712	01 08 31.66986 +05 37 21.39711	1.4	12.190	−24.05	2.96		−14.5		9.487	0	5.9	31.9
J460011*	2046-09-17 08:29:04.89	01 00 48.53899 +04 44 38.33365	3.0	9.212	156.35	−13.99	4.007	24.0	9.076	11.118	10.466	252.1	158.1
Pgt	2552182305880877568	01 00 48.78616 +04 44 29.89518	2.0	26.772	−24.33	2.97		25.5	0.232	10.731	0	5.0	6.5

Table 11 *continued on next page*

Table 11 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J460012	2046-09-22 15:27:41.15	00 58 28.86131 +04 29 03.49135	2.3	15.271	336.63	−14.96	3.982	−42.8	9.280	11.611	10.895	141.6	163.9
Pgt	2552154818089758336	00 58 28.45627 +04 29 17.50946	1.7	44.099	−24.41	2.96		−40.6	0.195	11.295	0	4.7	65.8
J460013	2046-10-01 13:49:00.83	00 54 12.18010 +04 02 16.12120	2.4	16.446	157.05	−15.94	3.957	43.4	9.748	10.888	10.479	156.4	173.7
Pgt	2551787645629895808	00 54 12.60866 +04 02 00.97685	2.1	47.202	−24.55	2.94		46.6	0.128	10.642	0	4.3	163.7
J460014	2046-11-05 09:24:02.97	00 38 24.44692 +02 26 02.35481	2.0	16.373	159.14	−11.42	4.090	42.3	8.380	9.388	9.011	184.4	147.3
Pgt	2550495036568355328	00 38 24.83603 +02 25 47.05539	1.6	48.570	−24.98	2.74		50.5	0.252	8.779	0	2.7	58.8
J470001	2047-07-01 14:15:25.06	02 59 29.72591 +15 55 25.71962	2.1	9.141	164.06	31.49	5.531	35.5	9.160	11.669	10.899	272.1	52.0
Pgt	34217390267690112	02 59 29.90000 +15 55 16.92996	1.6	36.669	−17.16	3.11		32.9	0.313	12.162	0	16.1	152.7
J470002	2047-07-11 23:55:16.04	03 07 01.02235 +16 25 27.83700	2.5	3.837	344.75	27.98	5.400	−12.3	9.791	11.990	11.297	118.8	60.1
Pgt	34403169077300992	03 07 00.95220 +16 25 31.53907	2.1	15.029	−16.54	3.15		−15.2	0.225	12.355	0	16.6	63.9
J470003	2047-07-30 02:27:31.35	03 18 16.56718 +17 07 52.17289	3.0	0.914	165.96	20.95	5.147	4.9	9.484	11.814	11.094	65.7	74.6
Pgt	55413191312406144	03 18 16.58266 +17 07 51.28618	2.4	3.412	−15.57	3.22		1.4	0.255	11.864	0	17.3	165.7
J470004	2047-11-04 06:36:40.55	03 16 10.13068 +16 48 41.79714	2.5	17.732	345.24	−16.05	4.012	−50.7	7.614	10.242	9.451	267.1	169.9
Pgt	55494555172986880	03 16 09.81601 +16 48 58.94340	2.3	51.593	−15.76	3.39		−48.8	0.494	10.003	0	17.0	8.3
J480001	2048-03-20 14:31:09.25	03 20 47.47518 +17 39 14.78656	2.2	0.496	344.30	31.28	5.568	−2.2	9.399	11.737	11.022	14.3	52.4
Pgt	55830245522996736	03 20 47.46580 +17 39 15.26373	1.8	2.002	−15.34	2.88		−1.4		12.222	0	17.8	15.5
J480002	2048-03-20 14:51:13.83	03 20 48.06440 +17 39 19.31181	2.2	1.582	164.30	31.29	5.568	5.4	8.327	9.754	9.251	9.2	52.4
Pgt	55830249816799104	03 20 48.09434 +17 39 17.78890	1.8	6.389	−15.34	2.88		6.3	0.377	10.240	0	17.8	15.6
J480003	2048-03-21 01:22:04.76	03 21 07.92775 +17 40 34.99387	2.7	2.289	344.33	31.43	5.574	−8.9	8.828	10.323	9.763	211.2	52.1
Pgt	55830486039880576	03 21 07.88450 +17 40 37.19770	2.2	9.253	−15.31	2.88		−8.1	0.299	10.814	0	17.8	20.6
J480004*	2048-03-25 20:20:16.84	03 24 49.40598 +17 55 01.36873	10.7	11.544	344.70	32.96	5.634	−45.2	8.097	10.516	9.771	282.8	48.2
Pgt	55894124571544320	03 24 49.19260 +17 55 12.50326	7.6	47.166	−14.98	2.87		−44.6	0.524	11.059	0	18.1	77.7
J480005	2048-07-29 08:13:29.84	05 21 43.04506 +22 36 39.83784	3.0	4.064	356.05	33.79	5.726	−16.3	9.730	13.722	12.609	10.1	45.1
Pgt	3414768694203452416	05 21 43.02483 +22 36 43.89188	2.0	16.876	−3.28	2.69		−14.7	0.329	14.291	0	22.7	83.2
J480006*	2048-08-02 13:26:29.61	05 25 13.63616 +22 40 05.34443	3.9	8.999	176.40	32.55	5.680	33.9	7.866	11.192	10.241	288.6	48.3
Pgt	3416064777894560128	05 25 13.67699 +22 39 56.36298	2.5	37.071	−2.90	2.68		35.4	2.096	11.721	0	22.7	31.3
J480007	2048-08-04 02:07:51.39	05 26 28.49773 +22 41 05.76206	4.3	5.409	176.53	32.09	5.662	19.7	9.856	11.458	10.920	97.0	49.5
Pgt	3416039038154111744	05 26 28.52142 +22 41 00.36278	3.2	22.215	−2.77	2.68		21.2	0.202	11.971	0	22.7	13.5
J480008	2048-08-05 07:22:27.15	05 27 27.51957 +22 42 01.09213	2.4	11.874	176.62	31.71	5.648	45.8	8.064	11.856	10.833	17.4	50.4
Pgt	3416036358093810560	05 27 27.57009 +22 41 49.23869	1.7	48.643	−2.66	2.67		47.2	0.730	12.356	0	22.7	1.1
J480009	2048-08-05 14:53:51.24	05 27 42.68819 +22 41 58.00890	2.1	3.508	356.65	31.61	5.645	−14.0	9.964	13.057	12.148	264.3	50.6
Pgt	3416042031747913728	05 27 42.67338 +22 42 01.51127	1.3	14.363	−2.64	2.67		−12.4	0.243	13.554	0	22.7	4.5
J480010	2048-08-10 09:57:12.09	05 31 28.89507 +22 45 01.12744	2.4	6.920	177.03	30.04	5.587	25.1	9.531	12.714	11.799	334.7	54.4
Pgt	3404104118609345408	05 31 28.92099 +22 44 54.21707	1.7	28.039	−2.23	2.66		26.7	0.307	13.156	0	22.8	62.2
J480011	2048-08-10 14:33:08.56	05 31 37.84089 +22 44 42.31964	2.2	18.256	357.05	29.97	5.585		9.064	12.566	11.592	265.6	54.5
P	3404124562653670528	05 31 37.77296 +22 45 00.55132	1.6	73.944	−2.22	2.66			0.399	13.005	0	22.8	64.6
J480012	2048-08-11 00:15:13.73	05 31 56.38985 +22 45 15.49339	2.8	1.722	177.08	29.83	5.580	5.5	9.830	11.403	10.856	119.7	54.8
Pgt	3404124077321042816	05 31 56.39620 +22 45 13.77394	2.1	6.967	−2.18	2.66		7.2	0.188	11.837	0	22.8	69.7
J480013*	2048-08-17 17:22:57.05	05 36 55.39049 +22 48 22.71856	3.1	4.140	357.58	27.46	5.494	−16.0	9.285	12.014	11.191	217.4	60.1
Pgt	3404269487732608896	05 36 55.37783 +22 48 26.85527	1.8	16.497	−1.65	2.64		−14.3		12.358	0	22.8	159.2
J480014	2048-08-19 13:35:07.18	05 38 13.82080 +22 49 12.67217	5.8	1.138	177.71	26.78	5.469	3.2	3.030	9.043	7.717	272.9	61.6
Pgt	3404219910928409856	05 38 13.82409 +22 49 11.53468	3.2	4.516	−1.51	2.64		5.0	14.563	9.360	0	22.8	174.7
J480015	2048-08-23 14:17:36.70	05 40 59.73086 +22 50 53.03102	6.9	15.217	177.98	25.27	5.415	59.1	9.703	14.974	13.688	259.0	64.8
Pgt	3404307974937218304	05 40 59.76963 +22 50 37.82331	4.1	59.759	−1.21	2.63		60.7	0.473	15.227	0	22.9	117.2
J480016	2048-08-25 14:05:19.73	05 42 18.83226 +22 50 56.54836	3.3	18.435	358.12	24.49	5.387		6.634	10.305	9.292	260.4	66.4
Pt	3403554637673769216	05 42 18.78859 +22 51 14.97361	1.9	72.027	−1.07	2.63			1.306	10.525	0	22.9	90.0
J480017	2048-08-30 13:05:53.26	05 45 26.44131 +22 52 43.41944	2.6	10.369	178.43	22.52	5.317	36.7	8.282	10.927	10.128	271.2	70.5
Pgt	3427527182319733248	05 45 26.46187 +22 52 33.05474	1.6	39.982	−0.73	2.62		38.4	0.442	11.056	0	22.9	28.1
J480018*	2048-08-31 05:08:32.73	05 45 50.72433 +22 52 46.24405	12.2	4.133	178.47	22.24	5.307	13.7	9.187	12.979	11.799	30.0	71.1
Pgt	3427527766435285248	05 45 50.73231 +22 52 42.11291	7.2	15.907	−0.69	2.62		15.5	0.403	13.094	0	22.9	20.2

Table 11 *continued on next page*

Table 11 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J480019*	2048-08-31 07:16:54.80	05 45 53.91774 +22 52 59.74054	34.1	16.450	178.47	22.21	5.306	64.3	9.045	13.461	11.624	357.8	71.1
Pgt	3427527873810816896	05 45 53.94946 +22 52 43.29591	24.0	63.304	−0.68	2.62		65.9	0.436	13.575	0	22.9	19.1
J480020	2048-09-01 02:28:41.24	05 46 22.63007 +22 52 44.29524	3.3	9.362	358.53	21.88	5.294	−34.4	7.715	11.446	10.408	69.2	71.8
Pgt	3427524884512732288	05 46 22.61268 +22 52 53.65382	2.0	35.947	−0.63	2.61		−32.6		11.543	0	22.9	9.8
J480021	2048-09-01 05:30:30.33	05 46 27.12056 +22 52 46.33720	2.8	8.913	358.54	21.82	5.292	−32.7	9.703	14.042	12.918	23.6	71.9
Pgt	3427530691308513024	05 46 27.10409 +22 52 55.24710	1.7	34.211	−0.62	2.61		−30.9	0.315	14.137	0	22.9	8.3
J480022	2048-09-02 18:46:02.98	05 47 21.59042 +22 53 02.87816	7.2	11.056	358.63	21.18	5.270	−40.7	7.058	12.618	11.255	183.4	73.2
Pgt	3427343087136325376	05 47 21.57124 +22 53 13.93076	4.9	42.256	−0.52	2.61		−39.0	1.716	12.680	0	22.9	9.9
J480023	2048-09-04 18:58:59.38	05 48 29.96879 +22 53 22.99240	2.5	12.734	358.74	20.33	5.240	−47.1	9.684	13.385	12.345	178.5	74.9
Pgt	3427352634846747264	05 48 29.94852 +22 53 35.72333	1.6	48.398	−0.40	2.61		−45.4	0.295	13.403	0	22.9	33.9
J480024	2048-09-06 11:21:07.66	05 49 25.32470 +22 53 48.44890	3.5	3.579	358.83	19.61	5.215	−13.4	9.917	10.269	10.151	291.5	76.3
Pgt	3427354150972176000	05 49 25.31939 +22 53 52.02685	2.1	13.537	−0.30	2.60		−11.4	0.138	10.247	0	22.9	54.8
J480025*	2048-09-09 02:25:23.01	05 50 48.31722 +22 53 54.37356	23.8	19.867	358.96	18.46	5.176		9.576	11.440	10.825	63.2	78.5
Pt	3427398127139707776	05 50 48.29121 +22 54 14.23740	14.1	74.585	−0.15	2.60			0.218	11.353	0	22.9	88.9
J480026	2048-09-17 06:20:24.91	05 54 37.07934 +22 54 42.02916	4.9	20.084	359.32	14.79	5.053		6.617	11.927	10.611	357.4	85.6
P	3424396739571402624	05 54 37.06197 +22 55 02.11209	3.3	73.602	0.26	2.58			1.874	11.599	0	22.9	157.9
J480027	2048-09-17 08:48:44.06	05 54 39.67126 +22 54 46.61731	2.7	15.930	359.32	14.74	5.051	−58.9	9.712	12.300	11.502	320.2	85.7
Pgt	3424396705211661056	05 54 39.65752 +22 55 02.54576	1.7	58.358	0.26	2.58		−57.1	0.226	11.968	0	22.9	156.5
J480028	2048-09-18 05:20:16.63	05 55 00.92913 +22 54 54.68238	2.5	11.327	359.35	14.35	5.038	−39.9	8.776	13.595	12.387	11.6	86.5
Pgt	3424399453990711040	05 55 00.91977 +22 55 06.00827	1.5	41.388	0.30	2.58		−38.0	0.564	13.234	0	22.9	144.5
J480029	2048-09-27 19:11:01.54	05 58 22.64886 +22 55 16.57183	2.5	14.881	359.60	9.90	4.892	−52.2	8.341	10.986	10.188	155.3	95.0
Pgt	3424529333801515776	05 58 22.64143 +22 55 31.45212	1.9	52.796	0.66	2.57		−50.2	0.426	10.223	0	22.9	20.1
J480030	2048-09-30 15:49:25.64	05 59 09.32999 +22 55 52.02324	2.8	16.163	179.60	8.54	4.848	55.0	8.893	13.768	12.558	203.1	97.7
Pgt	3424549258154873856	05 59 09.33808 +22 55 35.86081	2.0	56.835	0.75	2.57		57.2	0.532	12.844	0	22.9	13.7
J480031	2048-10-01 15:37:25.98	05 59 24.00508 +22 55 48.35273	2.1	11.142	179.61	8.07	4.833	35.4	9.787	13.008	12.077	205.2	98.6
Pgt	3424548747053651456	05 59 24.01059 +22 55 37.21099	1.5	39.058	0.77	2.56		37.8	0.235	12.023	0	22.9	25.5
J480032	2048-11-02 07:40:28.60	05 59 53.95834 +22 56 38.31094	2.3	1.504	180.96	−6.49	4.397	4.2	9.750	13.647	12.566	293.3	129.9
Pgt	3424538645290549760	05 59 53.95652 +22 56 36.80705	1.6	4.797	0.83	2.55		4.5	0.250	12.426	0	22.9	79.3
J480033	2048-11-12 13:30:35.45	05 57 00.26950 +22 57 17.95937	2.3	11.555	180.51	−10.44	4.288	33.5	8.858	13.974	12.714	195.0	140.8
Pgt	3424726386901744768	05 57 00.26202 +22 57 06.40443	1.6	35.938	0.51	2.55		33.5		13.269	0	23.0	132.8
J480034	2048-11-12 15:09:29.39	05 56 58.80493 +22 56 45.45020	1.8	21.131	0.49	−10.46	4.287	−69.2	8.639	11.614	10.747	170.2	140.9
Pgt	3424726004646574592	05 56 58.81813 +22 57 06.58025	1.2	65.707	0.51	2.55		−69.2	0.351	10.911	0	23.0	131.8
J480035	2048-11-18 20:50:02.75	05 54 33.57194 +22 57 22.67252	2.5	3.216	180.24	−12.49	4.233	9.1	8.087	9.162	8.788	78.3	147.8
Pgt	3424403675941741824	05 54 33.57097 +22 57 19.45682	1.7	9.872	0.25	2.55		9.0	0.299	8.650	0	23.0	50.3
J480036	2048-11-20 09:15:53.85	05 53 54.20849 +22 57 39.03034	2.1	17.609	180.18	−12.93	4.221	52.5	9.636	13.148	12.162	250.1	149.4
Pgt	3424409551457002496	05 53 54.20450 +22 57 21.42110	1.3	53.910	0.18	2.55		52.5	0.231	12.675	0	23.0	31.6
J480037	2048-11-24 14:23:29.66	05 51 57.47288 +22 57 34.81230	2.7	11.085	179.99	−14.06	4.192	31.3	7.912	13.628	12.289	168.6	154.1
Pgt	3427393458513463936	05 51 57.47296 +22 57 23.72747	1.8	33.698	−0.03	2.55		31.4	0.945	13.246	0	23.0	19.1
J480038*	2048-11-24 22:55:14.93	05 51 47.15433 +22 57 37.84159	2.9	14.155	179.98	−14.15	4.189	40.6	9.415	11.471	10.818	40.3	154.5
Pgt	3427393591654270848	05 51 47.15471 +22 57 23.68635	1.8	43.008	−0.05	2.55		40.6	0.198	11.096	0	23.0	23.3
J480039*	2048-11-25 05:09:51.11	05 51 39.55719 +22 57 35.15780	6.3	11.527	179.97	−14.21	4.188	32.6	9.443	13.313	12.208	306.3	154.8
Pgt	3427388545070888576	05 51 39.55767 +22 57 23.63111	3.9	35.008	−0.06	2.55		32.6	0.278	12.942	0	23.0	26.4
J480040	2048-11-28 12:42:54.39	05 49 59.62889 +22 57 30.65295	2.8	9.674	179.82	−14.97	4.168	27.0	7.760	8.327	8.126	189.4	158.6
Pgt	3427356414417315584	05 49 59.63111 +22 57 20.97851	1.7	29.248	−0.24	2.55		27.1	0.309	8.012	1	23.0	66.8
J480041*	2048-12-03 10:05:37.17	05 47 22.82054 +22 57 33.12961	2.7	23.351	179.60	−15.89	4.146	80.1	9.056	12.063	11.181	223.2	164.1
Pgt	3427344525956528896	05 47 22.83248 +22 57 09.77947	1.7	70.211	−0.52	2.54		80.3	0.282	11.813	0	23.0	133.1
J480042	2048-12-04 07:19:48.02	05 46 53.43627 +22 57 28.57487	2.2	21.829	179.55	−16.02	4.142	68.9	9.845	10.797	10.451	263.7	165.1
Pgt	3427532168777227008	05 46 53.44859 +22 57 06.74628	1.4	65.584	−0.58	2.54		69.1	0.132	10.556	0	23.0	146.3
J480043	2048-12-09 10:19:57.99	05 43 58.58394 +22 56 56.06025	2.5	13.386	179.31	−16.63	4.128	37.4	9.951	14.408	13.238	212.9	171.0
Pgt	3403570855469657216	05 43 58.59564 +22 56 42.67550	1.5	40.075	−0.89	2.54		37.8	0.241	14.208	0	23.0	136.0

Table 11 *continued on next page*

Table 11 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J480044	2048-12-09 21:49:23.35	05 43 41.93345 +22 56 41.57351	2.5	1.726	179.28	−16.68	4.127	4.5	9.882	14.513	13.332	40.0	171.6
Pgt	3403571027268369664	05 43 41.93501 +22 56 39.84715	1.4	5.168	−0.92	2.54		5.0	0.262	14.316	0	23.0	129.1
J480045*	2048-12-19 19:33:49.31	05 37 52.03631 +22 55 25.45217	3.0	5.606	178.83	−16.91	4.124	15.0	9.043	11.375	10.646	62.6	177.0
Pgt	3404277119892461568	05 37 52.04461 +22 55 19.84750	1.7	16.767	−1.55	2.54		15.8	0.249	11.193	0	22.9	2.0
J480046	2048-12-27 05:02:34.25	05 33 34.54824 +22 53 36.79188	1.9	21.052	358.54	−16.36	4.142	−65.5	8.609	12.427	11.381	272.1	168.5
Pgt	3404083537126210560	05 33 34.50947 +22 53 57.83702	1.1	63.238	−2.01	2.53		−64.5	0.407	12.209	0	22.9	87.9
J480047	2048-12-27 16:27:18.34	05 33 18.33441 +22 53 59.15564	2.2	7.047	178.52	−16.31	4.143	18.9	8.257	11.279	10.406	100.4	167.9
Pgt	3404086320265038336	05 33 18.34756 +22 53 52.11118	1.5	21.177	−2.04	2.53		20.1	0.413	11.058	0	22.9	94.0
J490001	2049-01-16 02:52:13.01	05 23 42.85190 +22 49 43.76093	2.0	14.554	358.27	−11.88	4.271	−44.1	8.090	12.248	11.141	282.6	145.9
Pgt	3416265262671321472	05 23 42.82005 +22 49 58.30812	1.5	45.087	−3.07	2.49		−41.4	0.584	11.683	0	22.9	1.8
J490002	2049-01-18 16:12:12.74	05 22 43.91697 +22 49 38.14087	2.1	4.119	178.33	−11.03	4.296	10.1	7.189	10.828	9.798	79.8	143.1
Pgt	3414766422163725312	05 22 43.92566 +22 49 34.02367	1.3	12.833	−3.17	2.49		13.5	0.770	10.182	0	22.9	32.3
J490003	2049-01-23 18:06:33.04	05 21 01.26972 +22 48 36.72382	3.2	18.807	358.62	−9.22	4.349	−61.2	8.845	13.775	12.539	45.8	137.5
Pgt	3414821883078432896	05 21 01.23698 +22 48 55.52529	1.8	59.323	−3.35	2.48		−57.5	0.473	12.935	0	22.9	94.6
J490004	2049-03-02 09:03:58.43	05 19 37.45216 +22 54 12.96042	2.0	3.096	173.14	7.89	4.880	6.2	9.205	13.131	12.069	144.0	99.2
Pgt	3414838203954001536	05 19 37.47893 +22 54 09.88659	1.4	10.957	−3.50	2.37		13.9	0.360	12.121	0	22.9	121.3
J490005	2049-03-06 14:19:15.11	05 20 43.10676 +22 55 47.16265	3.6	5.413	353.86	9.94	4.947	−20.9	8.885	12.904	11.818	61.3	95.2
Pgt	3414826757865125632	05 20 43.06486 +22 55 52.54498	2.0	19.424	−3.39	2.36		−14.8	0.439	12.145	0	23.0	61.7
J490006	2049-03-07 22:11:35.77	05 21 06.64482 +22 56 26.23513	2.8	0.770	354.05	10.58	4.969	−5.5	8.776	12.972	11.844	302.0	94.0
Pgt	3414829609722583168	05 21 06.63904 +22 56 27.00132	1.7	2.776	−3.34	2.35		0.4	0.483	12.281	0	23.0	44.2
J490007	2049-03-08 13:53:07.06	05 21 18.77688 +22 56 40.88019	4.2	3.450	354.13	10.90	4.979	−14.3	6.837	10.072	9.121	66.1	93.4
Pgt	3414829785818777984	05 21 18.75134 +22 56 44.31219	2.7	12.459	−3.32	2.35		−8.5	0.998	9.413	0	23.0	35.9
J490008	2049-03-14 19:46:53.23	05 23 30.71222 +22 59 53.14277	2.9	13.411	174.82	13.87	5.080	45.3	9.385	13.030	11.989	332.0	87.6
Pgt	3416276468242527488	05 23 30.79986 +22 59 39.78600	2.0	49.416	−3.09	2.33		49.5	0.327	12.632	0	23.0	38.8
J490009	2049-03-22 16:50:52.34	05 26 57.22077 +23 03 49.89266	2.5	9.838	175.51	17.48	5.207	32.9	9.264	10.551	10.084	9.1	80.6
Pgt	3416101783332684288	05 26 57.27657 +23 03 40.08525	1.6	37.151	−2.72	2.30		36.6	0.216	10.405	0	23.1	138.7
J490010	2049-03-23 03:45:29.08	05 27 10.49296 +23 03 51.37973	2.5	2.974	355.54	17.68	5.214	−12.3	9.831	12.719	11.844	205.1	80.2
Pgt	3416101955131553664	05 27 10.47621 +23 03 54.34471	1.4	11.247	−2.69	2.30		−8.3	0.396	12.585	0	23.1	144.8
J490011	2049-03-25 15:23:29.47	05 28 24.97395 +23 05 19.80207	2.1	7.159	175.75	18.79	5.254	23.4	8.980	12.358	11.395	28.4	78.0
Pgt	3416146927732673920	05 28 25.01240 +23 05 12.66288	1.4	27.278	−2.56	2.29		27.1	0.396	12.291	0	23.1	178.7
J490012	2049-03-27 22:37:00.65	05 29 37.65484 +23 06 06.53146	3.2	18.982	355.92	19.81	5.290		7.517	11.922	10.769	278.1	76.0
Pt	3416137994200697088	05 29 37.55707 +23 06 25.46522	2.3	72.826	−2.43	2.29			1.013	11.912	0	23.1	148.6
J490013	2049-04-01 17:28:07.01	05 32 18.85749 +23 09 02.76154	2.6	6.656	176.32	21.87	5.364	22.2	9.501	12.603	11.716	351.3	71.9
Pgt	3404152600200073216	05 32 18.88847 +23 08 56.11882	1.5	25.898	−2.14	2.27		25.6	0.294	12.700	0	23.2	81.6
J490014	2049-04-01 20:27:59.14	05 32 23.20556 +23 09 16.71920	2.6	16.738	176.33	21.93	5.366	66.8	8.989	12.464	11.505	306.2	71.8
Pgt	3404152630262484736	05 32 23.28319 +23 09 00.01544	1.4	65.145	−2.14	2.27		69.6	0.393	12.564	0	23.2	79.9
J490015	2049-04-03 21:36:39.05	05 33 36.57041 +23 10 12.83373	3.0	9.366	176.49	22.78	5.398	32.7	7.453	9.912	9.161	287.3	70.1
Pgt	3404514133367534464	05 33 36.61196 +23 10 03.48566	1.8	36.664	−2.00	2.26		35.8	0.680	10.054	0	23.2	52.6
J490016	2049-04-05 22:16:08.53	05 34 51.50987 +23 11 16.57487	2.9	11.189	176.66	23.62	5.428	40.2	9.596	12.895	11.959	275.7	68.4
Pgt	3404470049823129984	05 34 51.55722 +23 11 05.40485	2.1	44.052	−1.87	2.25		43.2	0.292	13.075	0	23.2	26.8
J490017	2049-04-08 04:01:23.49	05 36 16.94703 +23 12 20.07940	2.4	7.633	176.83	24.53	5.462	26.5	9.146	12.574	11.610	187.6	66.5
Pgt	3404482174514608768	05 36 16.97762 +23 12 12.45764	1.3	30.239	−1.72	2.24		29.6	0.383	12.795	0	23.2	1.2
J490018	2049-04-18 06:03:24.62	05 43 13.09321 +23 16 51.60839	2.3	3.132	177.65	28.33	5.607	10.1	9.681	10.861	10.438	148.9	58.2
Pgt	3403595113444866944	05 43 13.10254 +23 16 48.47926	1.3	12.735	−0.97	2.21		13.2	0.197	11.239	0	23.3	124.4
J490019	2049-04-18 22:36:17.24	05 43 43.33816 +23 16 52.82619	3.5	12.550	357.70	28.57	5.616	−50.7	9.557	11.370	10.768	260.1	57.6
Pgt	3427610749498691840	05 43 43.30163 +23 17 05.36590	2.1	51.117	−0.92	2.20		−47.9		11.757	0	23.3	133.8
J490020	2049-04-23 14:22:31.59	05 47 12.69250 +23 18 45.41005	3.6	5.664	358.10	30.18	5.679	−23.0	9.637	14.215	13.052	19.8	53.9
Pgt	3427576527199381760	05 47 12.67883 +23 18 51.07046	2.0	23.325	−0.54	2.18		−20.0	0.397	14.662	0	23.3	160.6
J490021	2049-04-25 05:09:38.14	05 48 27.42451 +23 19 37.22936	2.2	13.192	178.24	30.72	5.700	51.9	8.396	13.082	11.884	156.8	52.6
Pgt	3427567902904988160	05 48 27.45395 +23 19 24.04385	1.3	54.531	−0.41	2.18		54.6	0.763	13.548	0	23.3	138.0

Table 11 *continued on next page*

Table 11 *(continued)*

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A ($''$)	PA (deg)	$v_{\rm sky}$ (km/s)	Dist (au)	Lat I (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (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
J490022	2049-04-27 13:45:20.94	05 50 18.41982 +23 20 17.33789	3.4	8.943	178.44	31.49	5.730	33.3	9.378	14.286	13.068	26.0	50.7
Pgt	3427465201647251456	05 50 18.43748 +23 20 08.39798	2.2	37.164	−0.21	2.17		36.2	0.509	14.779	0	23.3	105.6
J490023	2049-04-28 01:12:42.61	05 50 41.18296 +23 20 08.65019	3.5	8.162	358.48	31.65	5.736	−33.0	9.811	13.005	12.079	213.8	50.3
Pgt	3427464578873699840	05 50 41.16724 +23 20 16.80979	2.3	33.955	−0.17	2.16		−30.2	0.275	13.504	0	23.3	99.2
J490024	2049-05-01 01:09:43.31	05 53 05.87785 +23 21 08.54254	4.6	3.500	178.75	32.59	5.773	11.9	9.800	14.586	13.398	212.2	48.0
Pgt	3427441798368243712	05 53 05.88342 +23 21 05.04350	2.9	14.653	0.09	2.15		15.0	0.402	15.116	0	23.4	59.5
J490025	2049-05-01 15:33:48.62	05 53 35.22779 +23 21 24.29276	2.7	10.580	178.80	32.77	5.780	40.6	9.064	13.451	12.311	355.7	47.5
Pgt	3427430910628136576	05 53 35.24388 +23 21 13.71481	1.7	44.352	0.15	2.15		43.4	0.425	13.987	0	23.4	51.9
J490026	2049-05-01 17:36:15.89	05 53 39.44111 +23 20 57.80202	2.1	17.118	358.80	32.80	5.781		9.241	12.484	11.551	325.0	47.5
P	3427430738829442432	05 53 39.41513 +23 21 14.91635	1.2	71.771	0.15	2.15			0.369	13.021	0	23.4	50.8
J490027	2049-05-04 06:06:18.77	05 55 44.18689 +23 22 03.44389	3.4	16.056	179.03	33.54	5.811	72.0	8.530	12.460	11.391	135.5	45.5
Pgt	3424803112197179392	05 55 44.20659 +23 21 47.39020	1.9	67.665	0.38	2.14		74.4	0.592	13.022	0	23.4	19.5
J490028*	2049-09-26 06:18:02.36	08 05 14.88471 +20 30 42.53994	22.2	3.102	191.08	25.42	5.571	8.6	7.796	8.532	8.259	22.0	63.8
Pgt	670685432766953088	08 05 14.84227 +20 30 39.49613	15.6	12.532	13.66	1.20		14.4	0.420	8.793	1	20.4	54.5
J490029	2049-10-13 07:56:09.10	08 14 43.87406 +20 04 04.03719	2.1	7.594	191.49	18.23	5.322	23.9	7.599	9.816	9.119	343.0	78.3
Pgt	675621548484222464	08 14 43.76669 +20 03 56.59506	1.4	29.313	14.53	1.09		30.4	0.592	9.716	0	19.9	73.6
J490030	2049-12-14 01:46:31.18	08 20 31.85405 +19 55 47.35053	2.0	14.839	15.54	−10.17	4.452	−46.3	9.132	11.490	10.766	16.0	139.0
Pgt	663608735413666176	08 20 32.13599 +19 56 01.64709	1.3	47.910	15.05	0.87		−45.3	0.253	10.755	0	19.8	13.2
J490031	2049-12-28 14:23:13.57	08 14 51.44007 +20 17 07.67809	2.9	0.724	14.21	−14.67	4.331	−1.7	7.748	10.035	9.294	171.1	155.2
Pgt	675650891700777728	08 14 51.45270 +20 17 08.38003	2.0	2.275	14.54	0.87		−2.5		9.698	0	20.1	150.8

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

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