

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

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1. TITAN PREDICTION TABLES

Table 1. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 1 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _p (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _p (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Ti230001**	2023-04-20 04:10:03.03	22 26 36.39923 -11 14 33.15627	10.6	344.8	111.1	344.78	13.911	16.391	15.612	66.5	55.3
P	2602805088238087296	22 26 36.39308 -11 14 32.82361	8.8	2588.0	833.2	30.33	10.350	16.843	0	-11.1	55.2
Ti230002	2023-08-14 12:56:47.85	22 28 01.38833 -11 31 24.53616	5.6	720.7	98.1	161.62	14.751	17.506	16.656	180.4	166.6
P	2602605767396365184	22 28 01.40379 -11 31 25.22008	5.2	4589.8	625.1	-23.608	8.781	17.689	0	-11.4	146.3
Ti230003	2023-08-24 10:50:12.39	22 25 11.44326 -11 47 31.06894	15.1	1383.6	51.5	147.21	14.808	18.834	17.579	201.6	176.5
P	2602386552264979328	22 25 11.49429 -11 47 32.23209	12.0	8802.5	327.5	-15.45	8.772	18.554	0	-11.7	92.5
Ti230004	2023-08-29 03:24:00.90	22 23 58.69135 -11 56 29.28262	3.9	1334.3	164.3	159.62	14.361	16.916	16.128	308.2	177.4
P	2602287458780244480	22 23 58.72302 -11 56 30.53338	3.3	8476.5	1044.2	-22.90	8.759	17.063	0	-11.8	25.8
Ti230005	2023-09-16 02:18:53.14	22 18 51.34839 -12 25 28.08884	4.7	492.4	52.6	344.43	14.346	16.949	16.140	305.5	159.3
Pt	2600800815979716352	22 18 51.33936 -12 25 27.61453	3.6	3147.0	336.8	-23.09	8.812	17.104	0	-12.3	148.1
Ti230006	2023-09-27 09:26:37.16	22 16 16.06247 -12 40 01.15834	3.8	1141.9	168.0	151.76	14.588	16.862	16.129	186.8	147.6
P	2600780822907217536	22 16 16.09939 -12 40 02.16432	3.0	7376.8	1084.7	-13.66	8.907	16.448	0	-12.6	4.5
Ti230007*	2023-10-10 02:39:14.34	22 13 36.36392 -12 52 10.98451	10.4	965.2	47.7	140.90	14.354	17.890	16.715	275.5	134.5
P	2612667535740428672	22 13 36.40554 -12 52 11.73356	6.8	6330.5	312.8	-6.41	9.043	16.656	0	-12.8	173.7
Ti230008	2023-11-05 14:27:00.19	22 11 24.14392 -13 01 45.35473	3.8	794.3	133.5	29.82	14.868	16.540	15.946	71.9	107.6
Pt	2612296661020299136	22 11 24.17095 -13 01 44.66562	3.5	5416.2	911.6	-3.64	9.402	14.691	0	-12.9	164.8
Ti230009	2023-11-25 03:49:39.51	22 12 47.55892 -12 50 56.61747	1.4	677.2	138.8	340.43	11.259	14.377	13.383	212.3	88.3
Pt	2612681558809269376	22 12 47.54341 -12 50 55.97935	1.0	4780.3	979.4	14.02	9.732	13.992	0	-12.7	63.5
Ti240001*	2024-01-09 07:14:30.93	22 24 36.76242 -11 40 05.36325	2.5	1035.0	147.0	154.63	10.663	12.413	11.834	119.5	45.5
P	2602403873868515072	22 24 36.79260 -11 40 06.29786	1.8	7803.4	1108.8	28.88	10.395	12.812	0	-11.5	74.6
Ti240002	2024-05-19 14:09:44.48	23 17 31.92669 -06 30 55.50405	2.0	61.0	116.9	164.09	13.253	15.322	14.618	259.5	71.1
Pg	2631933144122690048	23 17 31.92781 -06 30 55.56272	1.7	441.8	846.1	23.23	9.985	15.485	0	-6.4	154.2
Ti240003	2024-05-21 16:27:38.17	23 18 10.64743 -06 28 24.51723	1.7	628.9	14.7	166.16	12.781	14.585	14.009	223.1	72.9
Pt	2631934076131026816	23 18 10.65752 -06 28 25.12786	1.3	4540.0	106.1	23.80	9.954	14.774	0	-6.3	128.9
Ti240004	2024-06-21 22:24:32.89	23 22 42.19058 -06 07 32.07185	6.3	907.9	35.1	180.48	14.967	17.356	16.592	104.3	101.6
P	2632708746496964480	23 22 42.19007 -06 07 32.97969	5.2	6215.4	240.3	9.46	9.439	16.543	0	-6.0	79.7
Ti240005	2024-07-16 01:03:32.72	23 22 17.83577 -06 17 20.38552	1.7	979.5	22.6	163.45	13.523	15.133	14.576	40.6	124.8
P	2632658688653423744	23 22 17.85449 -06 17 21.32444	1.4	6433.9	148.3	-12.14	9.057	14.591	0	-6.2	121.7
Ti240006	2024-08-08 20:36:16.86	23 18 30.92993 -06 46 14.91274	5.0	628.4	28.3	139.25	14.982	17.111	16.454	83.0	148.6
P	2631069310235879680	23 18 30.95747 -06 46 15.38875	4.6	4011.7	180.4	-11.21	8.802	16.483	0	-6.6	162.6
Ti240007	2024-08-13 07:21:13.05	23 17 46.02664 -06 53 49.37016	3.4	315.3	192.0	154.40	14.947	16.575	16.054	277.2	153.0
Pgt	2631060887804480640	23 17 46.03579 -06 53 49.65455	2.8	2003.0	1219.8	-17.32	8.758	16.419	0	-6.8	109.1
Ti240008	2024-08-19 13:56:00.17	23 15 51.56162 -07 04 04.90999	2.8	1111.4	154.4	160.02	14.023	15.932	15.347	171.9	159.5
P	2631042990676195584	23 15 51.58714 -07 04 05.95451	2.3	7022.1	976.2	-21.01	8.711	15.985	0	-6.9	23.0
Ti240009	2024-11-24 18:50:40.70	22 58 10.00592 -08 48 46.41163	5.2	268.6	178.7	324.56	13.744	16.736	15.746	358.0	99.7
Pgt	2606992681351761792	22 58 09.99541 -08 48 46.19283	3.7	1835.7	1222.1	5.13	9.425	15.258	0	-8.7	170.8
Ti240010	2024-12-20 13:30:49.33	23 02 04.24555 -08 22 44.57646	5.1	251.1	120.1	327.99	14.634	17.020	16.243	53.5	74.6
Pgt	2607358612565154304	23 02 04.23658 -08 22 44.36353	5.0	1792.6	857.6	14.19	9.842	16.648	0	-8.2	169.3
Ti240011	2024-12-27 22:14:57.77	23 03 31.05499 -08 10 04.88283	6.7	1118.3	148.4	157.89	14.354	17.065	16.235	275.6	67.5
P	2607451422514100096	23 03 31.08334 -08 10 05.91886	4.4	8084.3	1072.3	23.64	9.967	17.247	0	-8.0	102.7
Ti240012*	2024-12-29 14:37:25.35	23 04 03.09309 -08 07 08.35374	6.6	266.2	65.8	160.77	12.681	15.108	14.261	28.4	66.0
Pgt	2607456950136603136	23 04 03.09900 -08 07 08.60514	5.6	1930.4	476.7	26.63	9.997	15.419	0	-8.0	81.7
Ti250001	2025-01-18 04:08:25.05	23 10 23.42893 -07 26 52.56456	7.4	945.9	141.6	339.02	14.274	17.582	16.491	168.0	47.8
P	2631346589028923520	23 10 23.40617 -07 26 51.68137	6.9	7041.0	1053.4	32.15	10.263	18.097	0	-7.3	177.6
Ti250002	2025-01-18 09:55:18.43	23 10 29.03448 -07 26 20.25523	1.3	903.0	148.8	338.66	12.253	13.784	13.260	81.1	47.5
P	2631346490245270784	23 10 29.01239 -07 26 19.41418	1.0	6722.9	1107.6	31.80	10.266	14.288	0	-7.3	174.8
Ti250003	2025-08-11 18:27:55.12	00 07 00.67318 -01 52 52.22052	7.0	529.2	26.4	310.92	13.909	16.171	15.447	124.6	138.1

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	2448733826669135872	00 07 00.64651 -01 52 51.87390	2.7	3374.6	167.9	-8.17	8.792	15.199	0	-1.7	10.9
Ti250004	2025-08-24 15:25:14.92	00 04 15.41166 -02 11 49.73901	5.7	335.2	172.7	328.00	14.786	17.207	16.490	156.9	151.2
Pgt	2448619202581807744	00 04 15.39981 -02 11 49.45478	4.1	2106.1	1084.8	-14.42	8.664	16.852	0	-2.1	167.5
Ti250005	2025-10-03 06:04:39.93	23 53 59.94282 -03 24 38.01748	7.6	1275.8	177.9	160.14	14.109	17.534	16.445	255.5	167.1
P	2448838417713071744	23 53 59.97177 -03 24 39.21737	6.4	7924.9	1105.3	-21.40	8.565	17.608	0	-3.3	38.9
Ti250006*	2025-10-03 12:33:26.35	23 53 54.88423 -03 25 07.32021	4.2	928.6	167.9	340.66	11.666	14.450	13.561	158.0	166.8
Pt	2448838245914379776	23 53 54.86369 -03 25 06.44399	3.1	5768.4	1043.5	-21.83	8.565	14.545	0	-3.3	35.3
Ti250007	2025-10-05 21:58:19.74	23 53 05.90803 -03 29 02.00173	9.4	43.0	19.7	162.98	14.924	17.879	16.909	14.2	164.3
Pgt	2447346792750237696	23 53 05.90887 -03 29 02.04281	6.1	267.0	122.4	-23.87	8.571	18.070	0	-3.3	3.6
Ti250008	2025-11-09 12:12:19.64	23 45 42.76505 -04 11 02.36787	1.3	888.2	156.1	347.41	11.455	13.334	12.719	124.8	128.0
Pt	2447049752812255744	23 45 42.75211 -04 11 01.50103	1.0	5725.0	1007.2	-11.60	8.887	12.743	0	-4.0	107.5
Ti260001	2026-01-10 14:24:14.62	23 50 23.82666 -03 27 40.74739	2.8	1240.0	50.3	325.77	12.941	15.568	14.746	31.7	66.4
P	2447383523310421120	23 50 23.78008 -03 27 39.72214	2.1	8865.4	360.0	17.30	9.858	15.410	0	-3.3	156.4
Ti260002	2026-05-18 19:44:17.21	00 42 39.27149 +02 11 19.95908	8.2	196.5	57.1	334.46	14.472	17.091	16.265	198.4	46.9
Pg	2550332755524065280	00 42 39.26584 +02 11 20.13633	8.1	1443.4	419.8	25.39	10.131	17.350	0	2.3	75.4
Ti260003	2026-06-02 18:52:37.67	00 47 47.70770 +02 40 18.49289	4.8	245.0	28.4	153.32	14.189	16.377	15.673	197.9	59.9
Pgt	2549996133167132672	00 47 47.71504 +02 40 18.27401	4.3	1764.5	204.4	19.87	9.931	16.370	0	2.8	93.6
Ti260004	2026-06-10 18:49:43.31	00 50 05.88713 +02 52 13.39710	2.5	373.7	25.6	344.98	12.720	14.265	13.744	191.3	66.9
Pt	2550054957039111296	00 50 05.87437 +02 52 14.10962	2.0	5258.9	182.5	26.80	9.829	14.583	0	3.0	8.9
Ti260005	2026-09-22 05:13:29.05	00 47 56.14720 +02 12 46.01291	2.3	655.5	40.1	161.91	9.414	10.622	10.187	292.9	166.7
Pt	2549911573851735936	00 47 56.16077 +02 12 45.39027	1.9	4017.0	245.7	-24.14	8.449	10.826	0	2.4	66.1
Ti260006	2026-09-23 02:23:31.48	00 47 37.06469 +02 11 09.39447	10.1	1111.9	47.3	341.34	13.595	17.467	16.230	334.4	167.6
Pt	2549909787144599296	00 47 37.04095 +02 11 10.44798	8.5	6811.6	290.0	-24.30	8.446	17.679	0	2.3	55.3
Ti260007	2026-10-08 20:01:44.81	00 43 07.88562 +01 41 52.13599	3.9	1276.0	37.2	342.25	13.935	15.710	15.119	53.2	174.7
P	2549548146603318144	00 43 07.85968 +01 41 53.35120	3.5	7800.2	227.3	-24.93	8.429	15.950	1	1.8	161.7
Ti260008	2026-12-13 07:11:47.39	00 31 36.35675 +00 40 25.08061	12.7	721.1	136.6	202.93	14.606	18.116	16.947	178.3	106.6
P	2544066673118182400	00 31 36.33802 +00 40 24.41646	9.3	4747.9	900.6	-3.30	9.078	16.158	0	0.8	60.4
Ti270001	2027-01-03 07:22:02.53	00 33 21.46170 +00 56 13.54481	1.9	599.6	51.5	341.66	12.161	14.125	13.480	155.5	85.7
P	2544098146638604928	00 33 21.44911 +00 56 14.11390	1.4	4102.9	351.9	16.82	9.435	13.937	0	1.1	134.7
Ti270002	2027-01-17 05:16:35.32	00 35 52.75277 +01 17 02.67516	1.6	43.4	155.2	158.41	12.206	13.665	13.161	173.8	72.3
Pgt	2544199022533680640	00 35 52.75383 +01 17 02.63485	1.2	303.6	1086.6	20.76	9.657	13.706	0	1.4	35.6
Ti270003	2027-02-02 21:26:37.61	00 40 29.61320 +01 50 01.01686	1.8	857.6	125.9	159.34	11.928	13.326	12.831	276.0	56.6
P	2550220158661281792	00 40 29.63339 +01 50 00.21441	1.4	6162.6	904.4	29.31	9.908	13.741	0	2.0	97.3
Ti270004	2027-06-12 01:56:06.11	01 34 56.93390 +07 22 33.44674	2.2	587.1	75.7	345.11	12.337	14.670	13.957	94.9	55.9
P	2565803159004516608	01 34 56.92376 +07 22 34.01408	1.3	4214.2	542.9	31.23	9.898	15.153	0	7.5	153.1
Ti270005	2027-07-12 12:03:54.08	01 42 55.29156 +08 01 49.66160	2.2	1178.9	153.5	171.39	12.794	14.268	13.741	275.0	82.8
P	2571718394122944384	01 42 55.30345 +08 01 48.49599	1.3	8060.3	1048.6	15.96	9.427	14.023	0	8.2	164.3
Ti270006	2027-07-13 04:24:30.96	01 43 04.74076 +08 02 09.69736	15.0	321.2	125.9	171.59	14.059	17.612	17.010	29.2	83.4
Pgt	2571718252389295232	01 43 04.74392 +08 02 09.37964	7.8	2193.7	859.4	16.92	9.417	17.431	0	8.2	156.4
Ti270007	2027-09-23 01:21:45.44	01 40 13.02283 +07 26 37.64202	9.5	742.5	138.4	163.74	14.724	17.563	16.675	3.3	153.4
Pt	2571577583619649536	01 40 13.03681 +07 26 36.92921	6.3	4531.3	845.1	-20.46	8.414	17.588	0	7.6	59.0
Ti270008	2027-09-27 00:17:06.31	01 38 54.09598 +07 20 18.43571	5.5	453.4	147.6	338.96	14.359	16.259	15.629	15.2	157.6
Pt	2565612359377231616	01 38 54.08504 +07 20 18.85885	2.8	2758.0	898.6	-21.66	8.388	16.346	0	7.5	115.3
Ti270009	2027-10-05 10:14:53.97	01 36 57.51776 +07 05 05.38073	1.2	725.1	180.9	157.60	11.043	13.262	12.564	217.0	166.2
P	2565581126375064448	01 36 57.53632 +07 05 04.71036	0.8	4393.3	1095.4	-16.32	8.354	13.041	0	7.2	126.2
Ti270010	2027-10-12 07:54:04.34	01 34 37.84935 +06 54 11.03011	3.8	1025.1	117.0	160.97	14.073	16.120	15.467	244.8	173.3
Pt	2565492169012413952	01 34 37.87179 +06 54 10.06106	2.3	6188.6	707.1	-24.34	8.324	16.333	0	7.0	43.7
Ti270011	2027-11-24 22:34:12.64	01 23 17.67035 +05 49 40.87898	2.2	821.2	168.1	169.21	12.331	13.675	13.206	339.0	139.3
Pt	2564416434323889152	01 23 17.68065 +05 49 40.07228	1.4	5083.9	1041.4	-15.59	8.535	13.404	0	6.0	172.2
Ti270012	2027-12-12 15:03:43.31	01 20 42.16092 +05 39 45.85592	1.9	138.5	70.6	177.41	12.083	13.685	13.132	73.5	120.8

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric	Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
Pgt	2564400353966267904	01 20 42.16133	+05 39 45.71753	1.5	879.7	448.6	-10.74	8.756	13.010	0	5.8	45.8
Ti280001	2028-02-23 15:59:27.21	01 31 52.50948	+07 05 20.38843	6.1	1216.8	50.0	160.21	13.997	16.349	15.605	350.4	49.7
P	2565724750081435264	01 31 52.53716	+07 05 19.24346	3.1	8738.4	358.7	34.24	9.902	16.933	0	7.2	69.0
Ti280002	2028-02-25 23:45:34.38	01 32 51.41010	+07 11 01.73680	14.2	11.7	154.9	336.89	14.812	18.338	17.277	231.8	47.7
Pg	2565703030431805824	01 32 51.40979	+07 11 01.74759	10.2	84.5	1114.6	32.58	9.926	18.868	0	7.3	42.1
Ti280003	2028-06-16 18:22:38.97	02 22 58.59904	+11 45 42.22484	2.4	600.3	144.1	342.07	13.175	14.612	14.113	214.9	48.4
P	72783069849459968	02 22 58.58646	+11 45 42.79599	2.0	4310.8	1034.0	33.05	9.901	15.157	0	11.9	25.3
Ti280004	2028-07-18 00:52:16.57	02 32 49.61205	+12 27 47.38481	4.8	771.5	120.5	165.53	13.327	15.374	14.734	89.2	75.7
P	26358630908141824	02 32 49.62522	+12 27 46.63778	4.4	5287.7	825.5	21.65	9.450	15.460	0	12.6	23.5
Ti280005	2028-07-29 22:30:43.69	02 34 56.03075	+12 36 34.07346	7.5	1202.8	150.8	356.19	14.613	16.633	15.923	113.3	86.6
P	26551384744768640	02 34 56.02529	+12 36 35.27360	7.1	807.2	1011.1	14.47	9.253	16.282	0	12.7	166.3
Ti280006	2028-08-14 07:00:07.04	02 36 40.83073	+12 41 15.24208	5.2	666.7	173.3	14.11	12.240	16.319	0	331.3	100.8
Pt	26545547884869248	02 36 40.84183	+12 41 15.88870	4.4	4351.4	1130.0	6.37	8.999	15.077	0	12.8	21.2
Ti280007	2028-11-12 03:09:36.29	02 20 06.54380	+11 08 06.15069	15.3	362.9	89.50	347.20	14.330	18.198	17.014	296.2	166.3
Pgt	72641950108630784	02 20 06.53834	+11 08 06.50456	12.6	2169.8	535.6	-24.09	8.244	18.400	0	11.3	132.4
Ti280008	2028-12-20 03:40:10.52	02 11 18.67607	+10 30 42.28675	2.0	692.5	162.6	147.62	12.905	14.317	13.820	248.9	125.8
Pt	72362025615486848	02 11 18.70121	+10 30 41.70191	1.7	4319.7	1014.5	-5.40	8.600	12.896	0	10.6	77.3
Ti290001	2029-01-24 07:01:49.92	02 11 39.06714	+10 41 42.11707	1.9	1184.8	78.5	160.48	11.763	13.269	12.741	164.0	90.2
P	72418787903264896	02 11 39.09400	+10 41 41.00040	1.3	7862.4	520.9	14.83	9.150	12.944	0	10.8	17.6
Ti290002	2029-02-26 05:47:15.20	02 19 21.10911	+11 30 29.52560	9.2	793.5	122.3	159.47	14.878	17.191	16.435	152.0	58.9
P	72718331807200256	02 19 21.12804	+11 30 28.78250	8.1	5564.3	857.5	29.50	9.669	17.612	0	11.6	87.1
Ti290003	2029-03-04 02:37:38.25	02 21 15.73571	+11 43 32.84195	2.1	411.0	64.1	333.21	6.151	8.695	7.930	194.1	53.5
Pt	72740085816711296	02 21 15.72311	+11 43 33.20905	1.7	2902.1	452.7	22.67	9.736	8.831	0	11.9	171.0
Ti290004	2029-03-13 06:37:46.61	02 24 43.65226	+12 01 01.64661	17.8	110.0	75.3	161.69	14.399	18.242	17.061	125.9	45.3
Pgt	72816948551516288	02 24 43.65461	+12 01 01.54220	19.3	786.9	538.3	35.95	9.866	18.878	0	12.2	66.4
Ti290005	2029-07-01 04:11:04.45	03 16 14.62796	+15 54 06.29063	8.1	1107.4	107.6	349.84	14.985	16.864	16.219	67.2	48.4
P	55186825060458752	03 16 14.61441	+15 54 07.38069	7.2	7881.3	765.2	33.90	9.812	17.437	0	16.0	70.6
Ti290006	2029-07-01 07:13:30.30	03 16 18.18154	+15 54 16.47643	1.9	173.8	102.2	349.74	11.635	13.713	13.064	21.5	48.5
Pg	55186863715877248	03 16 18.17939	+15 54 16.64741	1.5	1236.4	727.0	34.03	9.811	14.290	0	16.0	69.1
Ti290007	2029-07-18 14:48:42.28	03 22 43.28622	+16 15 38.63721	8.5	1154.1	66.2	349.69	13.548	17.069	15.971	252.2	63.4
P	54499149256903552	03 22 43.27188	+16 15 39.77273	6.9	8015.6	459.0	28.60	9.576	17.457	0	16.4	152.8
Ti290008*	2029-10-05 14:22:57.41	03 28 19.08164	+16 20 53.66655	3.7	549.8	96.3	147.48	10.213	12.794	12.020	182.2	138.3
Pt	54664831915023744	03 28 19.10219	+16 20 53.20316	2.9	3340.3	584.5	-7.93	8.377	11.790	0	16.5	107.2
Ti290009	2029-10-27 07:25:06.48	03 23 05.96086	+16 00 06.75925	23.2	979.5	200.2	171.45	14.977	18.429	17.394	264.0	161.1
Pt	54479186248721408	03 23 05.97096	+16 00 05.79061	19.7	5816.9	1189.0	-19.96	8.188	18.427	0	16.1	34.8
Ti290010	2029-11-06 14:51:38.39	03 19 35.36839	+15 45 52.34396	2.8	483.6	88.2	338.28	10.650	12.930	12.219	141.3	172.0
Pt	54430601578576128	03 19 35.35601	+15 45 52.79347	2.1	2861.8	521.6	-14.71	8.159	12.596	0	15.9	174.3
Ti290011	2029-11-09 06:42:11.83	03 18 57.44049	+15 43 02.70943	3.9	162.7	161.0	347.40	13.770	15.439	14.853	260.9	174.6
Pgt	54408959239143680	03 18 57.43803	+15 43 02.86818	3.2	961.8	951.6	-15.86	8.152	15.187	0	15.8	141.6
Ti300001*	2030-03-06 09:09:28.66	03 10 52.19942	+15 41 24.18919	77.1	142.5	77.0	155.21	13.879	16.439	15.216	106.6	64.2
Pg	31290387235581696	03 10 52.20356	+15 41 24.05984	62.3	980.9	530.3	17.83	9.492	16.314	0	15.8	40.2
Ti300002	2030-03-11 10:13:02.10	03 12 16.52455	+15 47 49.42238	4.3	936.4	168.0	167.33	12.114	15.428	14.367	86.1	59.5
Pt	31198268776943232	03 12 16.53878	+15 47 48.50879	4.2	6502.7	1166.5	25.55	9.575	15.694	0	15.9	20.5
Ti300003*	2030-07-15 09:33:26.90	04 12 33.47864	+19 15 47.81481	23.4	245.2	136.1	173.54	13.164	16.107	15.111	346.9	47.8
Pgt	48544507814355584	04 12 33.48059	+19 15 47.57117	17.0	1731.2	961.1	25.91	9.735	16.388	0	19.3	128.1
Ti300004	2030-08-06 02:19:48.79	04 20 48.32009	+19 31 37.33141	18.4	1190.7	75.4	352.92	14.700	18.123	17.128	76.0	66.6
P	48218463961091840	04 20 48.30970	+19 31 38.51301	14.0	8158.5	516.0	27.10	9.447	18.453	0	19.6	148.3
Ti300005	2030-08-18 18:50:17.89	04 24 08.30849	+19 38 59.41941	3.2	690.8	172.3	1.17	11.947	14.610	13.788	176.7	78.0
Pt	48278391641208704	04 24 08.30949	+19 39 00.11005	2.4	4630.6	1154.6	17.38	9.242	14.458	0	19.7	37.4
Ti300006	2030-09-03 22:31:30.72	04 27 08.27817	+19 43 14.67394	11.5	537.9	174.2	8.97	14.813	17.331	16.529	106.3	92.8

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	48105355999021312	04 27 08.28411 +19 43 15.20523	8.3	3502.1	1133.7	10.29	8.977	16.609	0	19.8	169.5
Ti300007	2030-10-02 06:59:29.82	04 27 51.48633 +19 42 02.88628	20.6	330.0	112.7	164.57	14.900	18.319	17.512	311.5	120.3
Pgt	48106348134662784	04 27 51.49255 +19 42 02.56816	13.9	2040.0	697.1	-10.53	8.523	17.622	0	19.8	174.1
Ti300008	2030-10-03 17:54:29.56	04 27 37.79368 +19 40 55.79614	22.5	1381.6	171.7	156.17	14.780	18.602	17.509	146.3	121.8
P	48101125454418816	04 27 37.83321 +19 40 54.53237	17.3	8522.5	1059.4	-9.35	8.505	17.776	0	19.7	153.7
Ti300009	2030-10-04 12:05:25.91	04 27 31.91505 +19 40 12.03502	5.7	1127.2	189.2	331.13	12.302	16.080	14.890	232.7	122.6
P	48101198470676480	04 27 31.87652 +19 40 13.02210	4.3	6946.4	1165.6	-8.29	8.497	15.123	0	19.7	143.0
Ti300010	2030-10-20 05:43:52.73	04 25 02.68832 +19 32 50.94866	10.3	670.4	190.7	340.87	14.663	17.206	16.395	312.0	138.7
Pt	48087317136306560	04 25 02.67277 +19 32 51.58200	7.3	4035.3	1148.2	-14.74	8.299	16.875	0	19.6	55.7
Ti300011	2030-11-04 12:33:09.40	04 21 10.70367 +19 23 07.13012	5.6	547.5	177.8	165.14	13.139	16.273	15.340	193.7	154.9
Pt	48212111705718528	04 21 10.71359 +19 23 06.60088	4.4	3240.4	1052.4	-20.45	8.160	16.297	0	19.5	90.1
Ti300012	2030-11-13 09:45:35.56	04 18 53.43440 +19 15 46.95395	10.0	97.5	211.9	177.12	14.523	17.067	16.248	226.2	164.3
Pgt	47843019396310784	04 18 53.43475 +19 15 46.85660	7.4	573.6	1246.6	-18.13	8.114	16.961	0	19.3	19.8
Ti300013	2030-11-14 16:06:35.26	04 18 27.83854 +19 15 28.26051	1.5	320.5	202.9	176.69	11.001	13.051	12.348	129.6	165.6
Pgt	47846386650613888	04 18 27.83984 +19 15 27.94049	1.1	1884.3	1193.0	-20.91	8.105	13.100	0	19.3	34.8
Ti300014	2030-11-20 19:54:31.10	04 15 57.28372 +19 10 10.91518	2.6	433.0	191.6	165.26	11.419	14.184	13.326	65.9	172.3
Pgt	48580826058239104	04 15 57.29149 +19 10 10.49641	2.0	2539.4	1123.8	-22.17	8.086	14.296	0	19.2	112.1
Ti300015	2030-11-22 13:31:16.00	04 15 22.09484 +19 07 45.54613	5.8	735.5	192.6	342.80	14.364	16.470	15.719	159.9	174.1
Pt	48575397219593728	04 15 22.07949 +19 07 46.24873	4.6	4314.3	1129.2	-18.44	8.088	16.382	0	19.2	136.5
Ti300016	2030-11-27 20:13:08.66	04 13 58.82023 +19 03 24.86175	5.3	949.6	175.0	175.43	13.566	16.218	15.385	53.9	177.9
Pt	48528667975029888	04 13 58.82557 +19 03 23.91517	3.9	5569.1	1025.8	-16.48	8.086	16.007	0	19.1	143.8
Ti300017*	2030-11-29 11:49:22.53	04 13 27.99226 +19 02 59.35610	36.0	1419.4	213.9	177.17	14.131	17.593	16.355	178.1	177.1
P	48523509718575104	04 13 27.99721 +19 02 57.93844	24.5	8320.4	1253.9	-19.66	8.082	17.574	0	19.1	119.6
Ti300018*	2030-11-30 19:13:54.24	04 12 59.48404 +19 02 36.56148	16.3	104.1	197.0	356.59	13.439	16.685	15.592	65.5	176.0
Pgt	48526194073883776	04 12 59.48360 +19 02 36.66539	11.4	610.0	1155.2	-22.26	8.080	16.801	0	19.1	101.2
Ti300019	2030-12-04 00:42:14.43	04 11 38.12678 +19 00 40.41809	2.8	291.6	89.6	351.42	11.384	14.536	13.567	339.9	172.7
Pgt	48515645634144384	04 11 38.12371 +19 00 40.70638	1.8	1708.7	525.7	-25.34	8.081	14.793	0	19.1	58.7
Ti300020	2030-12-04 12:08:38.56	04 11 25.77566 +19 00 11.86901	6.4	850.5	102.7	350.42	13.600	16.101	15.275	167.8	172.2
Pt	48515783073100416	04 11 25.76568 +19 00 12.70769	4.5	4985.7	602.4	-25.14	8.082	16.349	0	19.1	52.7
Ti300021	2030-12-10 00:29:54.42	04 09 32.44310 +18 53 26.95583	6.6	1442.8	130.7	163.98	14.016	16.615	15.777	336.6	166.3
P	47198014091263232	04 09 32.47115 +18 53 25.56903	4.8	8488.9	768.5	-14.78	8.112	16.286	0	19.0	14.4
Ti300022*	2030-12-17 19:58:22.41	04 07 20.73092 +18 50 28.47231	18.4	1134.9	151.1	356.13	12.283	14.478	13.638	36.2	157.9
P	47229182670422784	04 07 20.72552 +18 50 29.60464	14.8	6700.3	892.9	-22.06	8.140	14.585	0	18.9	109.7
Ti310001	2031-01-05 07:09:39.44	04 02 18.97330 +18 41 02.59780	3.8	111.3	99.7	172.01	12.865	15.551	14.717	208.9	137.9
Pgt	50132065167194368	04 02 18.97438 +18 41 02.48760	2.5	670.0	601.1	-17.76	8.301	15.422	0	18.8	4.9
Ti310002	2031-01-21 14:36:07.83	03 59 48.21521 +18 37 58.62277	8.7	695.8	112.8	352.97	14.771	16.734	16.070	80.6	120.7
P	49803036312316288	03 59 48.20921 +18 37 59.31336	4.6	4295.1	697.1	-10.64	8.511	16.049	0	18.7	142.9
Ti310003	2031-01-21 20:57:01.02	03 59 45.50274 +18 37 54.88535	7.4	728.5	124.4	171.73	14.559	16.399	15.768	345.1	120.4
Pt	49803036312316672	03 59 45.51011 +18 37 54.16444	3.8	4499.0	769.2	-10.25	8.515	15.673	0	18.7	138.9
Ti310004	2031-02-10 23:31:01.56	03 59 27.72426 +18 40 43.98225	2.7	176.4	149.8	356.77	8.126	11.096	10.216	286.7	100.0
Pgt	49815371458307328	03 59 27.72358 +18 40 44.15856	1.5	1130.7	959.7	7.91	8.838	10.089	0	18.8	120.2
Ti310005	2031-02-12 03:36:48.26	03 59 37.75433 +18 40 58.45689	6.5	984.7	100.0	351.27	13.791	15.981	15.241	224.2	98.8
P	49815234019351808	03 59 37.74381 +18 40 59.43015	3.3	6327.0	642.2	10.10	8.859	15.240	0	18.8	135.6
Ti310006	2031-02-25 14:13:01.03	04 01 11.36729 +18 50 28.07066	12.7	338.1	178.9	174.46	14.772	17.757	16.896	52.2	85.7
Pgt	50185357121281792	04 01 11.36959 +18 50 27.73415	9.2	2225.6	1177.9	12.44	9.076	17.242	0	18.9	36.3
Ti310007	2031-03-18 17:10:14.05	04 06 46.66204 +19 09 49.29922	3.1	701.3	124.4	165.20	12.874	14.814	14.167	348.5	65.9
Pt	47276805267674624	04 06 46.67469 +19 09 48.62113	2.4	4791.6	849.5	26.53	9.420	15.121	0	19.2	123.8
Ti310008	2031-03-24 15:57:51.90	04 08 40.92200 +19 18 43.10294	17.4	669.0	86.9	162.47	14.927	17.629	16.801	1.2	60.5
P	48770796755464832	04 08 40.93623 +19 18 42.46503	12.8	4606.9	599.3	19.30	9.495	17.591	0	19.4	42.2
Ti310009	2031-03-27 07:55:48.09	04 09 26.28951 +19 21 21.31542	39.5	1227.0	133.3	169.85	14.691	18.943	17.735	119.3	58.0

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	48775435320158976	04 09 26.30479 +19 21 20.10760	25.7	8485.7	922.7	21.38	9.535	19.015	0	19.4	8.7
Ti310010*	2031-03-28 00:17:17.46	04 09 39.39859 +19 21 51.07061	13.9	254.3	154.9	171.24	10.387	14.339	12.567	233.3	57.4
Pg	48774786781066880	04 09 39.40133 +19 21 50.81930	8.0	1760.6	1072.8	22.83	9.546	14.482	0	19.4	1.2
Ti310011	2031-04-04 16:08:22.58	04 12 59.37334 +19 30 12.06920	3.2	60.7	155.4	345.22	11.155	14.412	13.464	348.8	50.6
Pg	48836256353032320	04 12 59.37225 +19 30 12.12789	2.4	425.2	1087.8	31.93	9.657	14.920	0	19.6	91.5
Ti310012	2031-04-04 22:54:32.75	04 13 06.90766 +19 30 41.22452	6.4	544.7	163.1	164.82	13.593	16.092	15.282	247.0	50.4
Pt	48836221993305472	04 13 06.91774 +19 30 40.69882	5.0	3816.2	1142.0	31.55	9.660	16.587	0	19.6	95.1
Ti310013	2031-04-06 15:20:29.51	04 13 49.58603 +19 33 34.61858	2.8	73.0	176.9	343.20	11.412	13.726	12.948	359.1	48.9
Pgt	48650640750399488	04 13 49.58453 +19 33 34.68845	1.9	512.2	1241.9	28.86	9.677	14.124	0	19.6	117.1
Ti310014	2031-04-07 06:43:18.71	04 14 04.69382 +19 34 40.36722	13.5	623.7	167.0	162.98	13.567	17.474	16.312	127.8	48.3
P	48655867726731648	04 14 04.70674 +19 34 39.77077	10.3	4380.4	1173.2	27.81	9.683	17.832	0	19.7	125.8
Ti310015	2031-07-29 04:01:56.37	05 11 38.75522 +21 30 16.66073	6.6	959.6	151.7	171.47	14.078	16.089	15.402	71.3	46.7
P	3414906820351840512	05 11 38.76542 +21 30 15.71177	4.5	6750.6	1067.8	26.94	9.700	16.412	0	21.5	158.6
Ti310016	2031-07-30 22:03:53.46	05 12 17.63184 +21 31 24.81539	4.9	926.2	89.3	354.24	12.688	15.470	14.616	159.2	48.2
P	3414998526494201216	05 12 17.62518 +21 31 25.73693	3.1	6499.8	627.4	24.18	9.676	15.676	0	21.6	176.3
Ti310017	2031-08-01 06:19:44.25	05 12 45.77764 +21 31 54.52974	15.3	57.6	84.8	357.40	14.172	17.531	16.543	34.1	49.4
Pg	3414998045457842432	05 12 45.77745 +21 31 54.58727	9.1	403.4	594.3	23.66	9.659	17.713	0	21.6	156.3
Ti310018*	2031-08-02 05:30:40.54	05 13 06.18197 +21 32 02.16859	25.4	35.5	117.9	179.46	14.013	17.282	16.154	45.5	50.2
Pgt	3414253190752466432	05 13 06.18199 +21 32 02.13307	16.2	248.6	825.1	24.27	9.648	17.492	0	21.6	141.8
Ti310019*	2031-08-03 16:24:13.25	05 13 38.70581 +21 31 58.13712	9.4	370.2	162.0	1.09	13.631	15.892	15.122	240.8	51.5
P	3414251064745315072	05 13 38.70631 +21 31 58.50728	5.7	2586.7	1132.3	26.45	9.633	16.195	0	21.6	119.9
Ti310020	2031-08-08 15:07:30.64	05 15 51.97881 +21 32 26.92899	4.6	911.9	79.3	175.75	13.431	15.541	14.815	255.6	55.7
P	3414218113756553600	05 15 51.98365 +21 32 26.01960	3.1	6334.0	550.5	31.99	9.577	16.051	0	21.6	50.7
Ti310021	2031-08-23 20:05:23.97	05 21 09.18665 +21 36 44.14446	10.9	277.0	86.1	178.07	14.235	17.207	16.312	167.5	69.1
Pg	3414407019302171776	05 21 09.18732 +21 36 43.86761	7.8	1879.4	583.4	25.73	9.355	17.480	0	21.6	134.8
Ti310022	2031-08-29 15:32:59.21	05 23 04.76090 +21 39 56.21695	19.8	1066.7	174.1	349.82	14.736	18.257	17.251	230.3	74.3
P	3414452408515361152	05 23 04.74738 +21 39 57.26688	13.5	7159.0	1168.6	15.53	9.254	17.982	0	21.7	143.9
Ti310023	2031-09-04 20:53:29.28	05 24 14.22933 +21 40 06.10753	7.5	1271.9	173.6	8.53	14.221	16.697	15.898	144.4	80.0
P	3414442895164194560	05 24 14.24286 +21 40 07.36541	4.9	8445.0	1152.9	13.69	9.154	16.285	0	21.7	54.4
Ti310024	2031-09-05 04:43:25.30	05 24 18.46587 +21 39 59.38640	7.6	701.9	177.6	188.24	14.426	16.542	15.800	26.6	80.3
Pt	3414444303913465856	05 24 18.45866 +21 39 58.69179	4.9	4657.7	1178.3	14.28	9.150	16.176	0	21.7	50.1
Ti310025	2031-09-08 05:06:00.96	05 25 05.28348 +21 39 01.47730	8.9	1028.4	108.7	1.07	14.786	16.821	16.121	18.2	83.0
P	3402456603513882112	05 25 05.28485 +21 39 02.50549	6.3	6793.4	717.1	18.32	9.108	16.726	0	21.7	12.1
Ti310026	2031-09-09 06:43:47.02	05 25 23.74110 +21 39 03.76586	3.4	1010.2	81.7	357.91	11.625	14.807	13.897	352.7	84.0
P	3402453541200082432	05 25 23.73846 +21 39 04.77535	2.6	6660.8	538.4	18.32	9.092	14.712	0	21.7	1.3
Ti310027	2031-09-09 13:07:37.57	05 25 28.30962 +21 39 07.81396	12.9	279.2	82.5	177.13	14.068	17.513	16.553	256.5	84.3
Pg	3402453854734793088	05 25 28.31063 +21 39 07.53513	9.8	1840.0	543.3	18.18	9.087	17.410	0	21.7	4.1
Ti310028	2031-09-09 15:39:06.20	05 25 30.09984 +21 39 09.80618	5.1	949.6	83.8	176.81	13.272	15.668	14.897	218.6	84.3
P	3402453854734790912	05 25 30.10362 +21 39 08.85801	3.9	6257.5	551.8	18.11	9.085	15.560	0	21.7	5.3
Ti310029	2031-09-24 20:50:20.05	05 27 34.87217 +21 39 25.47866	22.3	1037.5	89.2	180.98	14.647	18.514	17.323	126.3	98.7
P	3402398874858341888	05 27 34.87090 +21 39 24.44131	15.7	6647.6	571.1	10.62	8.834	17.828	0	21.7	160.5
Ti310030	2031-10-03 16:23:35.59	05 28 01.63579 +21 41 44.03372	4.8	1278.8	85.2	348.52	14.008	15.712	15.131	184.4	107.2
P	3403899398993547136	05 28 01.61753 +21 41 45.28693	3.1	8048.8	536.1	-4.80	8.678	14.161	0	21.7	36.6
Ti310031	2031-10-17 10:30:10.73	05 27 39.07024 +21 40 00.33296	8.3	0.4	159.6	4.58	14.647	16.905	16.181	259.1	120.9
Pgt	3402399016592479360	05 27 39.07024 +21 40 00.33338	5.8	2.5	981.3	-9.62	8.473	16.111	0	21.7	134.4
Ti310032	2031-10-19 10:02:37.65	05 27 16.86915 +21 39 56.56560	7.4	21.7	88.0	174.81	14.707	16.763	16.079	263.9	123.0
Pgt	3402445638462269312	05 27 16.86929 +21 39 56.54397	5.1	133.0	539.1	-12.15	8.443	16.222	0	21.7	161.9
Ti310033	2031-10-22 07:00:57.48	05 26 43.05480 +21 38 20.93353	8.0	1316.6	179.3	342.33	14.671	16.845	16.033	306.4	126.0
P	3402444715044328448	05 26 43.02614 +21 38 22.18796	5.0	8028.8	1093.5	-10.55	8.408	16.150	0	21.7	157.4
Ti310034	2031-10-25 10:05:23.66	05 26 19.91572 +21 36 10.65896	12.1	172.5	145.4	156.34	14.327	17.651	16.608	257.1	129.2

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)		PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric	Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)		v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
Pgt	3402441382149737216	05 26 19.92068	+21 36 10.50091	8.3	1048.2	882.4		-5.27	8.376	16.202	0	21.6	113.2
Ti310035	2031-10-26 23:52:06.43	05 26 12.95809	+21 35 38.36949	1.8	1182.5	89.6		351.55	10.598	12.958	12.325	48.8	130.8
P	3402441343492964352	05 26 12.94566	+21 35 39.53881	1.2	1768.2	542.4		-4.26	8.358	11.279	0	21.6	91.1
Ti310036	2031-11-04 05:22:55.51	05 24 38.30153	+21 36 53.82972	7.2	1424.9	91.3		356.09	13.784	16.723	15.836	317.6	139.3
P	3402433341970841984	05 24 38.29457	+21 36 55.25133	4.6	8523.2	546.8		-18.47	8.247	16.636	0	21.6	16.1
Ti310037	2031-11-07 20:01:46.40	05 23 32.79310	+21 34 34.01907	13.8	756.2	196.4		166.62	14.873	17.711	16.821	94.1	143.2
P	3414438943794317824	05 23 32.80565	+21 34 33.28335	9.2	4506.3	1170.2		-15.39	8.216	17.427	0	21.6	59.1
Ti310038*	2031-11-07 22:16:39.86	05 23 31.36495	+21 34 27.94508	2.6	513.7	197.4		346.46	11.175	13.315	12.573	60.3	143.3
Pt	3414438943794318592	05 23 31.35632	+21 34 28.44454	1.7	3061.1	1176.3		-15.21	8.215	13.018	0	21.6	60.3
Ti310039	2031-11-09 17:42:35.73	05 23 06.80486	+21 33 02.14799	6.0	575.2	172.3		166.03	13.145	16.422	15.446	126.9	145.2
Pt	3414438252303024768	05 23 06.81481	+21 33 01.58977	4.1	3422.4	1024.1		-11.77	8.203	15.847	0	21.6	82.3
Ti310040	2031-11-10 10:16:24.71	05 22 58.94963	+21 32 35.80429	14.5	0.6	144.3		348.13	14.755	17.984	17.030	237.7	145.9
Pgt	3414437908705633920	05 22 58.94962	+21 32 35.80485	9.8	3.4	857.5		-10.77	8.198	17.312	0	21.6	90.9
Ti310041	2031-11-19 13:34:13.08	05 20 35.99167	+21 33 00.16585	3.3	893.4	108.3		357.69	4.488	9.237	8.011	178.7	155.7
P	3414403621982928640	05 20 35.98912	+21 33 01.05836	2.0	5256.1	637.7		-22.80	8.112	9.379	0	21.6	141.4
Ti310042	2031-11-21 11:16:57.21	05 19 49.76295	+21 32 08.04360	9.0	1393.6	120.2		353.18	14.423	17.123	16.288	210.9	157.8
P	3414391115038182784	05 19 49.75109	+21 32 09.42736	6.3	8187.3	706.8		-22.93	8.100	17.271	0	21.6	114.1
Ti310043	2031-11-25 14:34:27.09	05 18 25.17558	+21 28 40.31123	9.4	1122.7	175.5		168.77	14.494	16.971	16.177	157.1	162.3
Pt	3414387365532126080	05 18 25.19124	+21 28 39.20999	5.9	6585.6	1029.1		-15.65	8.088	16.705	0	21.5	57.5
Ti310044	2031-11-25 16:31:34.59	05 18 23.89766	+21 28 34.29996	12.3	1318.6	172.6		348.89	14.537	17.459	16.568	127.8	162.4
P	3414387575985059456	05 18 23.87946	+21 28 35.59387	7.7	7734.5	1011.8		-15.51	8.087	17.183	0	21.5	56.4
Ti310045	2031-12-11 08:15:38.17	05 12 58.64159	+21 23 52.08454	2.7	423.7	181.5		349.35	12.104	14.525	13.745	235.0	178.4
Pgt	3414242371731554304	05 12 58.63598	+21 23 52.50090	1.7	2472.5	1058.5		-17.35	8.047	14.371	0	21.4	139.2
Ti310046	2031-12-12 05:32:55.28	05 12 43.36036	+21 23 13.37908	7.8	1517.2	145.8		350.91	13.655	16.623	15.728	274.7	178.3
P	3414244055358743936	05 12 43.34320	+21 23 14.87719	4.8	8856.5	850.3		-15.78	8.049	16.365	0	21.4	151.6
Ti310047	2031-12-15 03:37:45.58	05 11 57.60710	+21 22 27.42312	8.1	585.7	129.3		0.92	14.566	16.890	16.135	300.4	176.0
Pt	3414901455937161344	05 11 57.60777	+21 22 28.00875	5.2	3420.2	754.7		-15.20	8.052	16.592	0	21.4	165.5
Ti310048	2031-12-20 00:24:27.58	05 10 18.27307	+21 23 30.34654	10.9	120.4	168.1		180.50	14.765	17.562	16.732	343.5	170.9
Pgt	3414910733065320832	05 10 18.27299	+21 23 30.31618	7.4	702.7	198.2		-23.63	8.049	17.743	0	21.4	93.7
Ti310049	2031-12-21 13:46:03.76	05 09 37.93568	+21 23 19.95647	6.3	88.1	101.0		177.32	13.979	16.378	15.638	141.4	169.1
Pgt	3414912936385380352	05 09 37.93597	+21 23 19.86850	4.3	514.3	590.3		-25.01	8.052	16.621	0	21.4	72.2
Ti310050	2031-12-25 08:41:26.21	05 08 03.76032	+21 20 48.76531	8.9	1354.6	198.0		169.66	14.725	16.686	16.010	213.5	164.9
P	3414933273055165440	05 08 03.77773	+21 20 47.43269	6.1	7929.7	1159.1		-20.53	8.071	16.714	0	21.4	22.8
Ti310051	2031-12-30 18:10:31.70	05 06 38.20449	+21 17 55.31663	10.8	1165.6	116.1		1.05	14.160	17.205	16.260	65.5	159.1
P	3408942072849881856	05 06 38.20602	+21 17 56.48206	7.3	6854.0	682.2		-13.04	8.108	16.741	0	21.3	43.0
Ti320001	2032-01-08 19:30:16.25	05 03 39.88520	+21 18 11.14404	6.1	286.2	150.1		171.98	13.768	16.254	15.449	35.9	149.2
Pgt	3409118510106960512	05 03 39.88805	+21 18 10.86065	4.1	1693.9	888.8		-20.13	8.161	16.261	0	21.3	155.7
Ti320002	2032-01-12 11:06:53.95	05 02 40.45223	+21 15 28.88816	5.0	504.2	165.8		348.06	14.067	15.823	15.188	157.9	145.3
Pt	3409158711000682624	05 02 40.44476	+21 15 29.38143	3.7	2999.8	986.1		-11.44	8.204	15.217	0	21.3	150.6
Ti320003	2032-01-17 19:06:08.11	05 01 48.32480	+21 15 35.42454	7.2	152.1	198.0		189.74	14.670	16.391	15.792	32.6	139.7
Pgt	3409172317457106560	05 01 48.32296	+21 15 35.27465	4.7	910.6	1185.1		-11.37	8.256	15.778	0	21.3	71.2
Ti320004	2032-02-07 19:10:18.00	04 58 25.23042	+21 17 27.95436	9.9	1417.6	87.5		0.56	14.869	17.046	16.321	10.0	117.5
P	3412073340231244160	04 58 25.23140	+21 17 29.37192	6.6	8757.6	541.3		-9.75	8.518	16.266	0	21.3	166.2
Ti320005	2032-02-27 18:14:16.25	04 58 24.83782	+21 20 45.79874	10.1	197.3	184.8		187.93	14.936	16.996	16.281	4.4	97.4
Pg	3412097151530031616	04 58 24.83587	+21 20 45.60335	6.8	1264.9	1185.4		6.21	8.841	15.727	0	21.4	98.4
Ti320006	2032-03-06 08:57:51.41	04 59 46.79018	+21 24 18.11094	7.7	193.4	192.6		335.46	13.941	16.382	15.587	136.3	90.1
Pgt	3412089592387702528	04 59 46.78443	+21 24 18.28687	5.1	1257.8	1252.5		10.69	8.967	15.702	0	21.4	163.2
Ti320007	2032-03-26 10:05:19.59	05 04 02.82916	+21 36 13.89586	10.2	663.0	83.5		169.10	13.157	16.764	15.655	100.7	71.2
Pt	3409194067171368192	05 04 02.83815	+21 36 13.24478	6.5	4465.8	563.2		13.83	9.287	16.364	0	21.6	101.8
Ti320008	2032-04-05 20:37:10.76	05 07 35.80820	+21 40 43.95329	8.3	1272.5	153.2		348.96	13.896	16.636	15.788	293.4	61.7

Table 1 continued on next page

Table 1 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	3415147368584011008	05 07 35.79073 +21 40 45.20221	5.8	8727.9	1050.1	27.32	9.457	16.974	0	21.7	119.2
Ti320009	2032-04-06 16:54:11.67	05 07 55.80341 +21 41 42.78028	12.6	379.0	174.7	167.91	14.167	17.180	16.237	348.4	60.9
P	3415147613398691456	05 07 55.80911 +21 41 42.40972	8.6	2602.2	1199.4	26.17	9.468	17.472	0	21.7	107.0
Ti320010	2032-04-10 03:05:16.87	05 09 06.59594 +21 45 21.60025	15.8	132.8	123.9	348.75	14.749	17.423	16.623	192.5	57.8
Pgt	3414981651565693312	05 09 06.59408 +21 45 21.73048	11.0	915.7	854.9	21.16	9.508	17.484	0	21.8	57.7
Ti320011*	2032-04-11 18:01:36.73	05 09 36.37787 +21 46 30.66404	42.7	128.4	78.9	172.71	13.904	17.824	16.549	327.0	56.4
Pg	3414987046044644480	05 09 36.37904 +21 46 30.53670	30.9	887.3	545.6	20.63	9.530	17.858	0	21.8	35.1
Ti320012	2032-04-15 19:33:58.99	05 11 02.01049 +21 47 30.83765	4.7	920.7	170.1	358.62	13.078	15.470	14.705	300.2	52.7
P	3415066318257996928	05 11 02.00889 +21 47 31.75810	2.9	6405.6	1183.5	28.24	9.593	15.845	0	21.8	17.3
Ti320013	2032-04-17 10:15:01.14	05 11 45.42736 +21 47 52.88236	16.1	377.6	135.8	357.11	14.520	17.618	16.701	78.6	51.3
P	3415020134472873216	05 11 45.42599 +21 47 53.25944	10.1	2633.7	946.6	32.11	9.618	18.132	0	21.8	36.5
Ti320014	2032-04-20 21:51:40.44	05 13 30.07723 +21 50 12.31415	8.9	1060.7	114.9	351.93	14.765	16.711	16.039	261.4	48.3
P	3415032370836363264	05 13 30.06654 +21 50 13.36436	5.8	7434.2	804.8	34.28	9.664	17.296	0	21.9	77.4
Ti320015	2032-04-21 20:15:30.35	05 13 57.70819 +21 51 11.47201	9.3	525.2	148.6	350.77	14.369	16.946	16.136	284.6	47.5
Pt	3415033058031101696	05 13 57.70214 +21 51 11.99037	6.3	3684.4	1042.3	33.33	9.673	17.501	0	21.9	88.5
Ti320016	2032-04-24 02:10:34.55	05 14 59.48773 +21 53 45.96830	12.0	776.9	176.5	169.42	14.291	16.826	16.025	193.9	45.6
P	3414289375853488640	05 14 59.49798 +21 53 45.20459	7.3	5462.6	1241.3	29.73	9.695	17.256	0	21.9	116.1
Ti320017	2032-04-24 03:44:13.88	05 15 01.16770 +21 53 49.95322	2.8	404.0	175.8	169.43	11.760	14.284	13.499	170.4	45.5
P	3414289375853487616	05 15 01.17302 +21 53 49.55610	1.9	2840.6	1236.7	29.62	9.695	14.710	0	21.9	116.9
Ti320018	2032-08-10 10:43:51.33	06 11 45.36948 +22 23 51.11959	7.2	1242.4	86.9	359.17	13.970	16.323	15.591	333.0	45.2
P	3425004013589005952	06 11 45.36818 +22 23 52.36184	5.2	8748.1	611.4	35.90	9.709	16.958	0	22.4	91.3
Ti320019	2032-08-12 04:00:15.45	06 12 38.28431 +22 24 15.92665	14.5	175.7	148.7	177.32	14.400	17.531	16.611	72.4	46.6
Pg	3425023182025100544	06 12 38.28490 +22 24 15.75118	10.5	1234.0	1044.0	33.31	9.686	18.084	0	22.4	111.8
Ti320020	2032-08-12 05:56:53.19	06 12 40.67082 +22 24 16.84784	6.6	474.7	151.3	357.25	14.117	16.165	15.468	43.2	46.7
Pt	3425023151963453952	06 12 40.66918 +22 24 17.32204	4.8	3334.5	1061.9	33.14	9.685	16.713	0	22.4	112.7
Ti320021	2032-08-13 21:27:22.15	06 13 26.40812 +22 24 51.33841	16.1	884.4	179.2	356.68	14.993	17.830	16.933	169.1	48.1
P	3376985862605232128	06 13 26.40443 +22 24 52.22134	12.5	6196.5	1255.6	29.41	9.660	18.249	0	22.4	133.0
Ti320022	2032-08-14 15:56:57.84	06 13 45.90287 +22 25 08.37997	7.1	1064.1	173.8	177.00	13.779	16.252	15.430	251.1	48.8
P	3376988615681422208	06 13 45.90689 +22 25 07.31731	5.9	7446.4	1216.4	27.57	9.649	16.601	0	22.4	142.8
Ti320023	2032-08-16 09:37:27.80	06 14 25.67560 +22 25 26.14092	11.2	591.6	123.0	359.42	14.880	17.187	16.410	344.4	50.3
Pt	3376976211815815680	06 14 25.67517 +22 25 26.73248	8.1	4128.8	859.0	24.06	9.623	17.388	0	22.4	165.6
Ti320024	2032-08-16 16:58:51.82	06 14 32.19733 +22 25 27.67515	7.3	549.3	110.9	180.09	13.974	16.321	15.543	233.8	50.6
P	3376977654924818688	06 14 32.19727 +22 25 27.12584	5.3	3832.0	774.2	23.61	9.618	16.501	0	22.4	169.6
Ti320025	2032-08-20 22:01:03.05	06 15 59.51955 +22 23 48.02194	20.8	1271.0	160.1	187.41	14.601	18.122	17.091	154.4	54.3
P	3377021326152644992	06 15 59.50773 +22 23 46.76154	16.3	8819.1	1111.0	25.26	9.567	18.376	0	22.4	127.9
Ti320026	2032-08-22 20:10:12.43	06 16 45.94152 +22 22 31.66552	4.5	1041.6	161.7	185.67	12.650	15.090	14.300	180.4	56.0
Pt	3377022700542135680	06 16 45.93410 +22 22 30.62905	3.0	7211.6	1119.2	28.78	9.546	15.485	0	22.4	98.9
Ti320027	2032-08-24 20:40:09.49	06 17 40.45831 +22 21 39.37155	8.2	1195.7	94.7	182.21	14.417	16.857	16.105	171.2	57.7
P	3377008509970145152	06 17 40.45499 +22 21 38.17674	6.2	8258.2	653.4	30.81	9.523	17.327	0	22.3	69.5
Ti320028	2032-08-26 05:51:53.26	06 18 18.82825 +22 21 29.36531	3.4	437.4	82.6	179.82	11.093	15.106	14.011	32.1	58.9
P	3377031221757390208	06 18 18.82835 +22 21 28.92795	2.7	3014.6	569.1	30.40	9.504	15.561	0	22.3	50.4
Ti320029	2032-08-27 04:49:10.26	06 18 44.67705 +22 21 34.31713	23.1	313.3	114.8	358.39	14.618	18.133	17.078	46.9	59.7
Pgt	3376843029171591552	06 18 44.67642 +22 21 34.63028	17.3	2156.1	789.5	29.26	9.489	18.546	0	22.3	37.7
Ti320030	2032-08-29 02:26:21.63	06 19 31.98648 +22 22 05.56772	4.9	443.9	175.6	176.52	13.297	15.736	14.925	80.9	61.4
Pt	3376840903166349440	06 19 31.98842 +22 22 05.12466	3.9	3044.8	1204.0	25.44	9.458	15.997	0	22.3	13.8

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

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

Table 2. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 2 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _p (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _p (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Ti320031	2032-08-29 06:33:27.94	06 19 35.91490 +22 22 08.38834	31.5	82.0	178.3	356.44	14.893	18.580	17.373	19.0	61.5
Pg	3376846774384567168	06 19 35.91454 +22 22 08.47021	28.3	562.5	1222.6	25.03	9.455	18.824	0	22.4	11.8
Ti320032	2032-08-31 23:52:16.95	06 20 29.72124 +22 22 49.96578	14.8	1189.2	142.0	178.70	14.492	17.550	16.620	116.8	63.9
P	3376835641829348864	06 20 29.72318 +22 22 48.77688	12.9	8114.3	969.6	18.69	9.408	17.477	0	22.4	21.9
Ti320033	2032-09-01 02:58:11.99	06 20 31.91053 +22 22 49.89461	4.9	510.0	137.2	179.01	11.946	15.609	14.583	70.2	64.0
Pt	3376835680486021504	06 20 31.91117 +22 22 49.38470	4.2	3479.0	936.0	18.45	9.406	15.521	0	22.4	23.5
Ti320034	2032-09-06 19:33:07.90	06 22 02.61058 +22 20 22.25176	58.2	606.4	175.6	9.28	14.225	17.572	16.264	176.3	69.2
P	3377157803033505920	06 22 02.61763 +22 20 22.85024	43.8	4101.2	1187.5	20.50	9.325	17.599	1	22.3	90.4
Ti320035	2032-09-08 21:04:39.76	06 22 44.45651 +22 19 07.50186	7.9	832.1	134.6	5.14	14.527	16.625	15.903	151.5	71.0
P	3377150342673218816	06 22 44.46189 +22 19 08.33058	5.8	5611.2	907.2	23.54	9.298	16.802	0	22.3	115.2
Ti320036	2032-09-08 23:06:20.73	06 22 46.29444 +22 19 05.98229	10.1	102.2	131.4	4.94	14.691	17.128	16.354	121.0	71.1
Pgt	3377150346967215616	06 22 46.29507 +22 19 06.08413	7.5	689.2	885.6	23.62	9.297	17.308	0	22.3	116.2
Ti320037	2032-09-12 01:41:00.75	06 23 54.53458 +22 18 42.13677	11.3	191.2	112.1	358.12	14.166	17.420	16.413	79.6	73.9
Pgt	3376397761322169728	06 23 54.53413 +22 18 42.32782	9.1	1282.3	751.2	22.61	9.249	17.553	0	22.3	155.0
Ti320038	2032-09-16 05:28:07.59	06 25 04.94065 +22 19 53.68427	4.6	889.4	170.9	355.58	13.322	15.183	14.565	19.0	77.7
P	3376418312744047360	06 25 04.93570 +22 19 54.57101	3.7	5916.7	1136.9	13.23	9.173	14.735	0	22.3	146.9
Ti320039	2032-09-17 17:21:00.65	06 25 21.25245 +22 20 05.18753	18.8	1111.7	115.7	180.67	14.533	18.042	16.920	199.4	79.1
P	3376406596073239936	06 25 21.25152 +22 20 04.07587	16.2	7374.0	767.7	10.31	9.145	17.322	0	22.3	124.7
Ti320040	2032-09-23 00:21:52.37	06 26 11.95615 +22 17 32.16386	1.8	885.6	180.6	13.09	11.440	12.664	12.205	89.2	84.0
P	3376407764304284672	06 26 11.97063 +22 17 33.02585	1.4	5822.8	1187.3	13.60	9.066	12.245	0	22.3	46.8
Ti320041	2032-09-23 07:20:27.13	06 26 15.68308 +22 17 21.10671	2.7	361.7	178.8	12.18	13.503	14.615	14.221	344.2	84.3
Pgt	3376407695584803328	06 26 15.68858 +22 17 21.46025	2.2	2377.0	1175.0	14.08	9.062	14.234	0	22.3	42.8
Ti320042	2032-09-25 06:14:49.24	06 26 43.90656 +22 16 19.98555	6.2	1129.6	122.6	5.44	14.180	16.108	15.479	358.8	86.1
P	3376362164635434752	06 26 43.91427 +22 16 21.11005	4.7	7401.5	802.5	16.40	9.034	15.893	0	22.2	17.3
Ti320043	2032-09-26 10:04:22.77	06 27 02.15009 +22 16 05.27486	6.7	562.4	83.6	1.51	14.193	16.379	15.648	300.4	87.2
Pt	3376361241214740352	06 27 02.15116 +22 16 05.83704	4.9	3677.6	546.0	16.57	9.017	16.174	0	22.2	4.4
Ti320044*	2032-10-01 10:27:22.64	06 28 04.23903 +22 17 24.79201	44.4	280.8	190.9	347.38	14.291	17.627	16.463	289.9	91.9
Pgt	3376441402489445248	06 28 04.23461 +22 17 25.06601	31.9	1817.5	1235.5	7.55	8.925	16.570	0	22.3	57.7
Ti320045	2032-10-08 05:49:31.93	06 28 23.23766 +22 16 10.67996	9.1	891.6	180.9	35.27	14.682	16.824	16.091	352.8	98.5
P	3376440474775894272	06 28 23.27476 +22 16 11.40786	6.7	5698.6	1155.7	4.94	8.813	15.306	0	22.2	140.4
Ti320046	2032-10-10 11:02:35.60	06 28 36.17274 +22 14 55.73807	3.3	435.2	156.3	13.61	12.509	14.856	14.106	272.4	100.6
Pt	3376443051756263680	06 28 36.18012 +22 14 56.16104	2.6	2772.1	994.8	7.91	8.783	13.848	0	22.2	168.7
Ti320047	2032-10-14 15:26:31.34	06 29 08.98118 +22 14 59.54407	10.5	624.5	145.4	163.78	14.939	17.488	16.729	202.4	104.6
Pt	3376254893531949952	06 29 08.99375 +22 14 58.94440	8.5	3948.1	917.9	6.27	8.716	16.228	0	22.2	132.4
Ti320048	2032-11-05 15:17:55.43	06 27 48.78379 +22 17 52.12651	9.8	1431.9	87.7	180.10	13.429	16.873	15.687	182.6	126.9
P	3376453080502114432	06 27 48.78360 +22 17 50.69464	7.1	8700.4	533.4	-13.81	8.378	16.471	0	22.3	155.3
Ti320049	2032-11-11 03:43:59.63	06 26 43.10259 +22 15 55.87950	4.1	165.0	171.2	350.76	12.851	15.554	14.727	350.3	132.7
Pgt	3376361035060062208	06 26 43.10068 +22 15 56.04237	3.1	995.6	1032.1	-7.36	8.319	14.468	0	22.2	128.4
Ti320050	2032-11-15 21:51:57.65	06 26 10.17712 +22 17 01.11064	6.9	372.6	170.9	197.02	14.865	16.679	16.084	73.5	137.6
Pgt	3376407729944551424	06 26 10.16926 +22 17 00.75435	5.7	2233.5	1023.3	-9.43	8.265	15.863	0	22.3	60.3
Ti320051	2032-11-19 21:22:51.79	06 25 13.88359 +22 19 38.03427	6.2	217.9	157.2	185.92	14.635	16.118	15.542	76.6	141.8
Pgt	3376406630432992640	06 25 13.88197 +22 19 37.81757	5.0	1297.6	936.5	-18.04	8.212	16.006	0	22.3	6.6
Ti320052	2032-11-22 06:40:28.92	06 24 25.49870 +22 20 05.52946	8.0	612.0	93.1	179.04	13.443	16.334	15.413	294.7	144.4
Pt	3376420541828748672	06 24 25.49944 +22 20 04.91751	5.6	3633.9	553.5	-19.98	8.187	16.333	0	22.3	25.2
Ti320053	2032-11-27 16:05:46.96	06 22 52.47679 +22 18 24.38920	3.0	707.3	150.4	358.01	12.649	14.772	14.086	147.6	150.2
P	3377150170874505088	06 22 52.47502 +22 18 25.09611	2.3	4181.6	888.5	-11.91	8.151	14.209	0	22.3	89.7
Ti320054	2032-12-05 11:05:14.30	06 20 51.56626 +22 22 35.62646	12.2	487.7	173.8	6.05	14.532	17.646	16.729	214.6	158.6

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	3376832893050276224	06 20 51.56996 +22 22 36.11148	10.7	2860.2	1019.6	-21.90	8.085	17.744	0	22.4	167.7
Ti320055	2032-12-05 18:25:35.19	06 20 44.40370 +22 22 45.54607	4.4	437.1	160.6	5.30	13.387	15.769	14.982	104.2	158.9
Pgt	3376832862987454208	06 20 44.40661 +22 22 45.98133	3.9	2562.6	942.3	-22.40	8.083	15.892	0	22.4	163.6
Ti320056	2032-12-05 19:06:26.61	06 20 43.73951 +22 22 47.76801	11.3	930.1	159.4	185.23	14.854	17.534	16.709	93.9	158.9
P	3376832858690540544	06 20 43.73340 +22 22 46.84180	9.6	5452.4	934.8	-22.44	8.083	17.659	0	22.4	163.2
Ti320057	2032-12-07 12:44:25.42	06 20 00.57488 +22 23 18.63379	2.6	467.5	90.7	1.03	10.762	14.331	13.328	187.5	160.9
Pt	3376835268169204992	06 20 00.57548 +22 23 19.10118	1.9	2736.4	531.2	-24.04	8.071	14.530	0	22.4	138.8
Ti320058	2032-12-07 16:19:18.61	06 19 56.75434 +22 23 19.77808	4.2	111.7	89.5	0.68	9.734	11.816	10.757	133.7	161.0
Pgt	3376835332590836352	06 19 56.75447 +22 23 19.88933	4.0	653.5	524.1	-24.07	8.070	12.017	0	22.4	136.7
Ti320059	2032-12-08 20:31:47.74	06 19 26.80386 +22 23 16.29275	12.7	850.4	120.7	178.15	14.911	17.836	16.851	69.3	162.3
Pt	3376841723503045760	06 19 26.80584 +22 23 15.44281	9.7	4974.2	706.3	-23.59	8.065	18.015	0	22.4	120.0
Ti320060	2032-12-09 07:19:13.99	06 19 15.62511 +22 23 09.44067	4.7	149.3	141.6	177.32	13.594	15.905	15.140	266.9	162.8
Pgt	3376841860940500352	06 19 15.62561 +22 23 09.29150	3.4	873.4	828.8	-23.10	8.064	16.062	0	22.4	113.6
Ti320061	2032-12-09 19:16:20.64	06 19 03.56750 +22 23 00.72716	2.4	481.6	163.8	176.51	12.827	14.615	14.005	87.1	163.4
Pt	3376844442219436672	06 19 03.56961 +22 23 00.24644	1.9	2816.2	958.6	-22.38	8.062	14.737	0	22.4	106.5
Ti320062	2032-12-10 01:50:39.25	06 18 57.12211 +22 22 54.03731	14.5	454.9	174.6	356.13	14.533	17.993	16.963	348.2	163.7
Pt	3376844609719567104	06 18 57.11990 +22 22 54.49116	10.8	2659.7	1021.6	-21.91	8.062	18.093	0	22.4	102.7
Ti320063	2032-12-11 06:31:13.33	06 18 30.78902 +22 22 25.79850	2.7	476.0	202.2	355.24	13.124	14.878	14.278	276.8	165.0
Pt	3376843651945501056	06 18 30.78617 +22 22 26.27285	2.2	2782.4	1182.3	-19.49	8.060	14.850	0	22.4	85.8
Ti320064	2032-12-14 20:24:33.68	06 17 29.17144 +22 21 52.32530	9.6	1488.0	98.7	3.67	13.308	17.403	16.353	64.7	168.9
P	3377010021798822656	06 17 29.17830 +22 21 53.81026	7.1	8692.5	576.2	-14.12	8.054	17.025	0	22.3	36.1
Ti320065	2032-12-14 22:15:00.03	06 17 28.02090 +22 21 53.59948	11.9	1280.9	96.7	3.98	13.376	17.748	16.616	37.0	168.9
P	3377010223658494720	06 17 28.02730 +22 21 54.87727	9.1	7482.3	564.6	-14.11	8.054	17.369	0	22.3	35.0
Ti320066	2032-12-17 04:46:36.11	06 16 52.75158 +22 23 01.00460	8.2	543.4	154.5	10.22	14.605	16.928	16.150	296.7	171.4
Pt	3377022528743435648	06 16 52.75854 +22 23 01.53939	5.5	3171.3	900.9	-15.94	8.047	16.681	0	22.4	5.7
Ti320067	2032-12-17 10:31:30.95	06 16 48.68276 +22 23 10.33537	2.7	1488.1	165.2	10.43	12.160	14.220	13.559	210.2	171.6
P	3377022730603296000	06 16 48.70218 +22 23 11.79889	1.7	8683.3	963.5	-16.33	8.046	14.000	0	22.4	3.8
Ti320068	2032-12-22 10:03:06.62	06 14 57.47972 +22 26 39.48759	30.8	563.5	125.8	3.25	14.847	18.950	17.773	211.9	177.0
Pt	3376977238312223872	06 14 57.48202 +22 26 40.05018	23.3	3280.0	732.7	-25.17	8.026	19.199	0	22.4	60.8
Ti320069*	2032-12-22 18:51:19.86	06 14 47.54957 +22 26 46.41733	10.6	440.0	109.6	2.42	12.768	14.961	14.279	79.5	177.4
Pgt	3376977929802701440	06 14 47.55090 +22 26 46.85690	7.8	2560.8	638.6	-25.44	8.025	15.223	0	22.4	65.2
Ti320070	2032-12-23 14:26:43.85	06 14 25.18700 +22 26 54.11886	12.2	847.7	90.6	0.60	14.290	17.270	16.307	144.7	178.2
Pt	3376989470377802752	06 14 25.18764 +22 26 54.96649	8.6	4933.4	527.6	-25.65	8.025	17.540	0	22.4	74.9
Ti320071	2032-12-25 04:04:40.53	06 13 42.83865 +22 26 46.03858	4.1	1396.3	141.6	177.49	13.695	15.600	14.951	298.5	179.0
P	3376991635041319168	06 13 42.84307 +22 26 44.64359	3.2	8128.0	825.0	-24.44	8.026	15.817	0	22.4	93.6
Ti320072	2032-12-25 11:43:37.37	06 13 34.59498 +22 26 38.42853	6.7	665.4	156.2	356.97	13.966	16.557	15.738	183.4	178.9
Pt	3376986034403962240	06 13 34.59244 +22 26 39.09302	5.1	3873.7	909.7	-23.95	8.027	16.753	0	22.4	97.4
Ti320073	2032-12-25 19:50:26.33	06 13 26.04734 +22 26 31.13904	9.1	1152.5	170.3	356.48	14.414	17.131	16.314	61.4	178.6
P	3376985965684482304	06 13 26.04223 +22 26 32.28937	7.0	6710.0	992.2	-23.36	8.027	17.300	0	22.4	101.5
Ti320074*	2032-12-28 00:42:30.89	06 12 36.73532 +22 25 41.99292	31.2	1178.8	198.7	175.74	14.333	18.121	16.749	346.0	176.4
Pt	3425023972299144960	06 12 36.74163 +22 25 40.81739	23.2	6869.5	1157.7	-18.45	8.035	18.033	0	22.4	128.7
Ti320075	2032-12-28 15:56:14.03	06 12 24.72725 +22 25 29.20262	27.7	405.8	183.1	356.68	14.907	18.806	17.804	116.9	175.7
Pgt	3425024109738086272	06 12 24.72555 +22 25 29.60775	20.8	2365.7	1066.7	-17.09	8.038	18.635	0	22.4	136.8
Ti330001	2033-01-01 11:13:08.30	06 11 23.56723 +22 26 09.09219	3.2	99.5	126.3	189.08	13.191	15.043	14.429	183.6	171.7
Pgt	3425014871266342144	06 11 23.56609 +22 26 08.99395	2.5	580.7	736.7	-15.17	8.048	14.743	0	22.4	170.4
Ti330002	2033-01-03 07:48:45.99	06 10 51.44319 +22 27 28.94847	6.6	91.2	201.0	10.41	14.616	16.410	15.806	232.8	169.7
Pgt	3425018410319421184	06 10 51.44438 +22 27 29.03818	4.9	532.5	1173.2	-17.98	8.049	16.295	0	22.4	144.0
Ti330003	2033-01-05 05:49:24.89	06 10 11.49122 +22 29 01.06144	6.5	1501.2	206.0	187.79	14.473	16.413	15.721	260.5	167.6
P	342506050098960384	06 10 11.47653 +22 28 59.57409	4.7	8765.0	1203.0	-21.56	8.050	16.494	0	22.5	116.0
Ti330004	2033-01-06 05:15:52.96	06 09 48.31132 +22 29 37.30113	2.7	413.9	175.2	5.74	11.427	14.792	13.821	267.9	166.5

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	3425060019962276096	06 09 48.31431 +22 29 37.71300	1.9	2417.2	1023.5	-23.10	8.051	14.948	0	22.5	101.9
Ti330005	2033-01-07 12:48:39.42	06 09 14.95718 +22 30 11.38583	5.4	375.7	115.3	2.69	14.141	16.308	15.609	153.2	165.0
Pgt	3425063662094576640	06 09 14.95845 +22 30 11.76110	3.7	2194.7	674.3	-24.38	8.055	16.523	0	22.5	83.1
Ti330006	2033-01-09 03:23:22.50	06 08 33.03906 +22 30 20.29423	12.7	158.7	102.2	178.99	14.515	17.326	16.479	292.8	163.2
Pgt	3423574957709632640	06 08 33.03926 +22 30 20.13554	8.5	928.0	598.1	-24.14	8.062	17.531	0	22.5	60.6
Ti330007	2033-01-10 03:02:11.36	06 08 08.26852 +22 30 08.34717	15.3	297.5	144.4	177.00	14.723	17.564	16.700	297.0	162.1
Pg	3423576637038626304	06 08 08.26965 +22 30 08.05007	9.7	1740.9	845.7	-22.91	8.068	17.712	0	22.5	47.1
Ti330008	2033-01-10 08:22:15.88	06 08 02.90120 +22 30 02.63688	7.9	1253.6	154.4	356.60	14.364	16.636	15.881	216.8	161.9
P	3423577019295228160	06 08 02.89584 +22 30 03.88825	5.6	7336.9	904.3	-22.53	8.070	16.765	0	22.5	44.1
Ti330009	2033-01-11 18:12:40.16	06 07 31.36107 +22 29 31.82767	12.8	1489.9	198.4	174.83	14.721	17.480	16.610	67.6	160.3
P	3423758881094301824	06 07 31.37077 +22 29 30.34383	8.4	8732.4	1163.3	-19.44	8.081	17.449	0	22.5	25.3
Ti330010	2033-01-12 16:01:09.08	06 07 13.76538 +22 29 07.92272	6.0	237.6	200.6	174.74	13.698	16.079	15.301	99.6	159.3
Pgt	3423759400784715648	06 07 13.76695 +22 29 07.68613	4.1	1393.9	1177.0	-17.16	8.089	15.912	0	22.5	13.5
Ti330011	2033-01-15 17:44:13.79	06 06 28.02199 +22 28 45.90603	13.1	445.5	96.0	184.26	14.985	17.934	17.038	70.6	156.0
Pt	3423761629872366848	06 06 28.01960 +22 28 45.46175	10.1	2622.0	564.3	-12.08	8.115	17.387	0	22.5	26.4
Ti330012*	2033-01-16 12:14:47.98	06 06 18.25624 +22 28 58.80712	15.7	1011.4	95.5	7.77	13.999	17.345	16.339	152.1	155.2
Pt	3423738406984302464	06 06 18.26611 +22 28 59.80920	11.8	5956.2	562.0	-12.04	8.120	16.794	0	22.5	35.9
Ti330013	2033-01-17 16:58:09.25	06 06 02.81221 +22 29 37.12120	4.6	57.6	141.6	191.46	13.529	15.891	15.171	80.0	153.9
Pgt	3423750291158733696	06 06 02.81139 +22 29 37.06474	3.4	339.6	833.9	-12.92	8.127	15.416	0	22.5	50.4
Ti330014	2033-01-19 05:11:03.66	06 05 41.09490 +22 30 43.23737	4.0	1302.1	199.0	192.18	13.451	15.371	14.703	255.2	152.3
P	3423750913929112832	06 05 41.07508 +22 30 41.96456	2.8	7683.1	1174.1	-15.10	8.136	15.066	0	22.5	68.5
Ti330015	2033-01-21 07:53:52.71	06 05 03.96488 +22 32 17.62869	4.2	207.3	199.0	8.51	11.551	15.369	14.310	212.3	150.0
Pgt	3423753280456077184	06 05 03.96710 +22 32 17.83372	2.7	1225.0	1176.4	-18.68	8.147	15.295	0	22.5	93.6
Ti330016	2033-01-23 13:20:13.24	06 04 17.24192 +22 33 22.37103	2.3	1319.1	108.9	182.63	12.655	14.198	13.655	128.3	147.6
P	3423798089849540480	06 04 17.23755 +22 33 21.05335	1.7	7808.4	645.1	-20.85	8.162	14.244	0	22.5	120.4
Ti330017	2033-02-02 15:11:57.34	06 01 56.23396 +22 32 36.33776	4.5	814.3	140.3	18.36	13.346	15.338	14.650	89.9	136.8
P	3424463019507081216	06 01 56.25248 +22 32 37.11057	3.3	4888.7	841.7	-8.09	8.278	14.355	0	22.5	98.9
Ti330018	2033-02-05 00:59:35.74	06 01 33.23361 +22 34 21.66225	33.5	145.3	208.4	195.96	13.898	18.616	17.391	300.5	134.3
Pgt	3424466966579276672	06 01 33.23072 +22 34 21.52259	23.1	874.5	1254.6	-11.51	8.301	18.017	0	22.6	63.8
Ti330019	2033-02-07 10:44:13.31	06 01 01.01860 +22 35 53.71673	3.0	221.0	151.5	187.41	11.156	14.529	13.546	151.8	131.7
Pgt	3424479542243561600	06 01 01.01655 +22 35 53.49761	2.2	1334.0	915.3	-14.62	8.324	14.189	0	22.6	30.8
Ti330020	2033-02-10 13:21:44.27	06 00 13.82297 +22 36 12.92880	9.1	797.7	123.1	175.75	13.936	16.898	15.959	109.2	128.4
Pt	3424458552740820352	06 00 13.82724 +22 36 12.13331	6.6	4838.2	747.5	-13.60	8.363	16.479	0	22.6	10.4
Ti330021	2033-02-10 21:02:02.74	06 00 09.45629 +22 36 07.11746	14.8	106.7	137.1	174.57	14.682	17.660	16.719	353.8	128.0
Pgt	3424458514083681664	06 00 09.45702 +22 36 07.01124	10.1	647.5	832.7	-13.06	8.368	17.197	0	22.6	14.2
Ti330022	2033-03-05 17:27:24.67	05 59 02.45526 +22 38 03.00183	10.4	505.9	102.4	164.28	12.528	16.753	15.541	24.6	104.8
Pt	3424508370073419264	05 59 02.46516 +22 38 02.51483	6.1	3199.2	647.3	7.49	8.719	15.686	0	22.6	44.2
Ti330023	2033-03-07 11:06:46.69	05 59 13.87258 +22 39 03.87319	7.2	912.5	170.4	332.01	14.094	16.266	15.517	118.1	103.1
P	3424505866100620672	05 59 13.84164 +22 39 04.67899	4.3	5787.1	1080.6	6.56	8.744	15.055	0	22.6	20.6
Ti330024	2033-03-11 23:04:40.73	05 59 25.45837 +22 41 51.27059	16.1	855.1	114.5	274.32	13.950	17.572	16.531	294.3	98.6
P	3424507515368028544	05 59 25.39675 +22 41 51.33506	10.1	5462.2	733.3	1.37	8.807	14.658	0	22.7	36.7
Ti330025	2033-03-18 11:59:48.83	05 59 52.36932 +22 40 35.12709	19.6	353.9	157.5	184.55	14.758	18.052	17.077	94.1	92.2
Pgt	3424506686438605056	05 59 52.36729 +22 40 34.77427	13.7	2291.3	1019.3	11.91	8.926	17.490	0	22.7	114.1
Ti330026	2033-03-19 17:14:58.72	06 00 07.74259 +22 40 27.45159	12.0	492.7	110.6	359.41	14.369	17.101	16.272	14.2	91.1
P	3424483154313473792	06 00 07.74222 +22 40 27.94424	9.3	3197.6	717.5	14.13	8.949	16.723	0	22.7	128.6
Ti330027	2033-03-21 02:21:26.95	06 00 27.37062 +22 40 42.23636	2.5	822.8	85.3	354.41	10.911	13.676	12.821	236.3	89.8
P	3424482673277109248	06 00 27.36482 +22 40 43.05520	1.8	5354.0	554.5	15.28	8.972	13.383	0	22.7	145.3
Ti330028	2033-03-21 12:33:55.90	06 00 33.58223 +22 40 52.12659	2.1	426.7	94.3	353.00	11.466	13.092	12.538	82.8	89.4
Pt	3424482703339387520	06 00 33.57847 +22 40 52.55009	1.5	2778.7	613.6	15.34	8.979	12.804	0	22.7	150.4
Ti330029**a	2033-03-22 15:24:34.32	06 00 49.64382 +22 41 26.96596	16.4	304.7	136.8	169.61	13.988	17.166	15.968	39.1	88.3

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	3424481127086403328	06 00 49.64779 +22 41 26.66627	12.4	1988.0	892.2	14.87	8.996	16.845	0	22.7	164.1
Ti330030 ^d	2033-03-22 15:32:30.81	06 00 49.72274 +22 41 27.03196	27.8	172.5	137.0	169.59	13.988	18.258	16.375	37.1	88.3
Pgt	3424481122791697024	06 00 49.72499 +22 41 26.86232	24.5	1125.4	893.7	14.87	8.997	17.936	0	22.7	164.2
Ti330031	2033-03-29 23:56:08.28	06 02 01.75375 +22 44 43.02834	7.4	196.9	97.4	4.51	13.308	15.785	14.963	264.3	81.3
Pgt	3424476385445280000	06 02 01.75487 +22 44 43.22462	5.2	1300.3	643.9	8.99	9.106	14.917	0	22.7	92.0
Ti330032	2033-03-31 02:35:09.72	06 02 12.10428 +22 44 25.84083	31.4	861.8	140.1	7.87	14.605	18.536	17.397	223.5	80.3
P	3424475973128413696	06 02 12.11281 +22 44 26.69451	21.9	5703.8	928.1	11.06	9.126	17.892	0	22.7	75.1
Ti330033	2033-03-31 13:24:57.67	06 02 16.98381 +22 44 16.35656	15.4	782.6	155.6	8.17	14.869	17.572	16.729	60.6	79.8
Pt	3424475797032333568	06 02 16.99185 +22 44 17.13123	10.3	5184.6	1031.4	12.13	9.134	17.029	0	22.7	68.3
Ti330034	2033-04-01 13:58:21.61	06 02 29.82483 +22 43 51.55347	5.4	1006.4	176.8	7.32	13.730	15.870	15.139	51.3	78.9
P	3424472842094826112	06 02 29.83409 +22 43 52.55170	3.8	6681.6	1174.2	14.83	9.154	15.545	0	22.7	53.1
Ti330035	2033-04-04 01:52:40.92	06 03 12.01668 +22 43 07.12120	26.6	34.1	131.8	181.55	14.827	18.336	17.274	230.4	76.6
Pgt	3423815299781257088	06 03 12.01661 +22 43 07.08708	18.0	227.7	879.2	20.92	9.201	18.385	0	22.7	18.0
Ti330036	2033-04-04 11:25:10.17	06 03 19.92394 +22 43 04.34729	16.7	780.6	116.2	0.52	14.812	17.600	16.661	86.9	76.2
P	3423816541029052928	06 03 19.92445 +22 43 05.12786	11.0	5213.1	775.9	21.58	9.208	17.683	0	22.7	12.9
Ti330037	2033-04-05 14:11:13.57	06 03 43.11956 +22 43 10.85297	8.7	774.9	82.9	177.77	12.405	16.519	15.417	44.4	75.2
P	3423815991274513408	06 03 43.12173 +22 43 10.07865	6.2	5185.8	554.4	22.78	9.227	16.660	0	22.7	5.0
Ti330038	2033-04-08 20:22:03.52	06 04 50.93785 +22 44 39.09572	22.0	1316.7	172.5	351.84	14.896	18.433	17.312	308.8	72.3
P	3423807878077851264	06 04 50.92435 +22 44 40.39907	15.5	8857.2	1160.4	21.04	9.275	18.489	0	22.7	43.0
Ti330039	2033-04-09 09:57:45.73	06 05 01.63881 +22 45 03.65756	13.5	1323.1	182.7	171.37	14.510	17.410	16.528	104.3	71.8
P	3423807500120750720	06 05 01.65317 +22 45 02.34942	9.3	8907.8	1230.2	20.20	9.283	17.421	0	22.7	49.7
Ti330040	2033-04-09 22:41:12.44	06 05 11.26640 +22 45 22.70214	8.9	135.6	186.4	351.15	14.170	16.870	15.998	273.0	71.3
Pgt	3423807435698675712	06 05 11.26490 +22 45 22.83615	6.2	913.8	1255.7	19.35	9.289	16.834	0	22.7	56.0
Ti330041	2033-04-10 01:29:25.83	06 05 13.31921 +22 45 27.84217	3.8	573.8	186.3	171.14	11.542	15.196	14.165	230.8	71.2
Pt	3423807366979194240	06 05 13.32560 +22 45 27.27517	2.8	3866.8	1255.9	19.16	9.291	15.150	0	22.8	57.4
Ti330042	2033-04-15 08:51:14.24	06 06 33.60829 +22 46 42.61649	4.0	1035.0	108.2	4.27	13.184	14.975	14.349	115.5	66.3
P	3423787129093167488	06 06 33.61386 +22 46 43.64860	2.9	7031.2	735.6	16.89	9.367	14.792	0	22.8	120.0
Ti330043*	2033-04-15 23:47:26.37	06 06 43.55462 +22 46 31.24898	25.1	662.4	132.2	5.37	14.794	17.678	16.648	250.9	65.7
Pt	3423786884278315520	06 06 43.55910 +22 46 31.90849	17.2	4505.2	899.6	18.07	9.378	17.567	0	22.8	127.4
Ti330044	2033-04-22 00:35:54.36	06 09 01.52525 +22 44 59.64967	4.4	761.2	79.8	358.12	13.333	15.249	14.620	233.4	60.3
P	3425083384584337664	06 09 01.52344 +22 45 00.41044	3.0	5233.2	548.2	29.88	9.480	15.685	0	22.7	155.8
Ti330045*	2033-04-22 02:15:24.64	06 09 03.39816 +22 45 01.61617	16.9	326.8	80.5	178.00	14.098	16.503	15.714	208.4	60.3
Pg	3425083350224596352	06 09 03.39898 +22 45 01.28957	11.3	2247.0	553.1	29.90	9.481	16.940	0	22.7	154.9
Ti330046	2033-04-23 03:23:16.83	06 09 31.71823 +22 45 21.07052	8.9	334.0	110.3	176.36	14.187	16.589	15.814	190.6	59.4
Pg	3425085716750002176	06 09 31.71976 +22 45 20.73715	5.9	2300.4	759.0	29.63	9.495	17.016	0	22.7	140.8
Ti330047	2033-04-25 22:18:22.96	06 10 42.30589 +22 46 46.67571	3.6	266.2	181.6	174.24	12.997	14.772	14.172	264.3	56.9
Pgt	3425074347973011968	06 10 42.30782 +22 46 46.41090	2.9	1839.2	1255.2	26.00	9.528	15.057	0	22.8	101.2
Ti330048	2033-04-29 06:16:21.57	06 11 52.91394 +22 47 57.53864	5.0	105.5	95.1	179.09	12.198	15.609	14.637	141.9	53.9
Pgt	3425048921766933632	06 11 52.91407 +22 47 57.43319	3.8	731.7	660.2	21.88	9.566	15.707	0	22.8	51.9
Ti330049	2033-05-02 10:15:22.70	06 12 57.89913 +22 47 11.18823	13.4	1232.0	143.5	5.31	14.595	17.403	16.526	79.2	51.1
P	3425051601826454784	06 12 57.90737 +22 47 12.41497	11.0	8587.9	1000.6	25.31	9.611	17.658	0	22.8	8.1
Ti330050	2033-05-04 17:34:06.19	06 13 55.81233 +22 46 00.64959	15.4	851.8	163.9	4.16	13.891	17.247	15.925	327.5	49.1
P	3425129800294489728	06 13 55.81680 +22 46 01.49916	10.4	5959.8	1146.2	31.15	9.647	17.728	0	22.8	23.5
Ti330051	2033-05-06 19:23:46.95	06 14 57.37641 +22 45 22.81803	4.5	638.3	99.2	181.08	13.186	15.306	14.587	298.3	47.3
P	3377091557457486720	06 14 57.37554 +22 45 22.17984	3.5	4479.9	695.7	34.99	9.677	15.914	0	22.7	48.6
Ti330052	2033-08-30 12:37:58.86	07 15 19.51940 +21 51 22.68719	3.3	282.7	146.1	182.50	13.067	14.228	13.815	300.8	49.6
Pg	3367176573913743104	07 15 19.51851 +21 51 22.40472	3.0	1978.6	1021.7	32.01	9.649	14.739	0	21.8	111.0
Ti330053	2033-09-01 02:41:47.38	07 16 02.11709 +21 50 57.46864	4.4	741.1	178.9	2.43	13.590	15.441	14.826	88.5	50.9
Pt	3367174374890459008	07 16 02.11935 +21 50 58.20904	3.9	5172.9	1248.4	28.43	9.625	15.823	0	21.8	129.7
Ti330054	2033-09-08 19:53:31.53	07 18 41.60137 +21 45 19.43187	5.8	522.9	170.1	12.67	14.516	15.809	15.318	183.6	57.8

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	3364180507806999552	07 18 41.60960 +21 45 19.94207	5.1	3610.3	1174.7	25.16	9.519	16.058	0	21.7	126.0
Ti330055	2033-09-14 11:12:25.32	07 21 03.45201 +21 40 56.19665	5.5	304.8	106.3	2.98	13.678	15.681	15.045	308.9	62.7
Pgt	866119432716665600	07 21 03.45315 +21 40 56.50106	4.3	2088.4	727.9	27.83	9.446	16.040	0	21.6	43.5
Ti330056	2033-09-22 12:38:33.41	07 23 27.90892 +21 38 01.04693	2.9	1214.8	98.5	195.81	12.880	14.469	13.933	280.0	70.0
P	865941689790714240	07 23 27.88519 +21 37 59.87803	2.4	8203.8	665.8	15.25	9.311	14.174	0	21.6	58.7
Ti330057	2033-09-23 22:39:24.90	07 23 47.87479 +21 36 37.26087	3.7	778.1	155.4	16.27	13.614	14.921	14.482	128.5	71.3
P	865940796437510144	07 23 47.89042 +21 36 38.00783	3.0	5243.9	1047.4	16.98	9.292	14.743	0	21.5	75.4
Ti330058	2033-09-26 06:29:12.41	07 24 27.18091 +21 34 20.91240	6.7	871.7	165.6	191.51	14.757	16.144	15.633	8.9	73.5
Pt	865929320285026560	07 24 27.16844 +21 34 20.05827	5.4	5855.4	1111.8	20.78	9.262	16.186	0	21.5	102.7
Ti330059	2033-09-26 10:24:02.36	07 24 30.25028 +21 34 11.52090	12.0	51.9	161.5	191.08	14.307	17.239	16.322	310.1	73.6
Pgt	865926365347524608	07 24 30.24957 +21 34 11.46997	8.8	348.6	1084.4	21.00	9.260	17.292	0	21.5	104.6
Ti330060	2033-10-08 23:09:05.11	07 27 27.84310 +21 30 26.32467	6.5	1197.6	121.2	204.29	14.191	16.023	15.422	107.2	85.2
P	865960347128853632	07 27 27.80780 +21 30 25.23306	5.2	7858.3	795.6	8.32	9.047	15.071	0	21.4	87.5
Ti330061	2033-10-10 22:08:11.44	07 27 44.30118 +21 28 50.38400	19.5	358.1	180.8	199.44	14.978	18.297	17.285	120.6	87.1
Pgt	865209449405563520	07 27 44.29264 +21 28 50.04632	15.1	2342.7	1182.3	11.15	9.020	17.663	0	21.4	58.2
Ti330062	2033-10-11 02:42:04.77	07 27 46.20571 +21 28 40.32342	11.1	480.4	182.0	18.64	14.202	17.082	16.170	51.9	87.3
Pt	865209449405563008	07 27 46.21671 +21 28 40.77858	8.3	3141.5	1190.3	11.46	9.017	16.477	0	21.4	55.4
Ti330063	2033-11-19 00:31:52.64	07 29 03.33306 +21 29 14.96202	6.7	1226.3	187.9	213.11	14.341	16.376	15.738	46.4	125.9
Pt	865212438702939136	07 29 03.28507 +21 29 13.93482	5.7	7484.8	1146.1	-6.64	8.416	15.178	0	21.4	92.5
Ti330064*	2033-11-23 23:54:36.44	07 28 06.22669 +21 32 41.56394	3.7	528.7	80.3	4.89	11.489	12.623	12.219	50.6	131.1
Pt	865215805957150720	07 28 06.22995 +21 32 42.08974	2.9	3198.1	486.1	-15.48	8.340	12.345	0	21.5	152.6
Ti330065*	2033-11-25 01:42:09.00	07 27 49.10990 +21 32 56.12177	12.2	433.7	97.2	181.75	14.498	16.929	16.087	22.6	132.3
Pt	865960759445705472	07 27 49.10895 +21 32 55.68828	9.4	2619.4	587.4	-15.49	8.328	16.652	0	21.5	165.8
Ti330066	2033-11-29 04:18:44.47	07 26 55.18366 +21 32 49.83023	16.2	898.7	182.0	2.29	14.476	17.837	16.785	339.2	136.6
Pt	865963091610663936	07 26 55.18623 +21 32 50.72821	12.8	5403.1	1093.7	-9.23	8.289	16.997	0	21.5	139.1
Ti330067	2033-12-04 23:29:24.34	07 26 04.16549 +21 36 39.49512	6.3	1040.9	193.7	21.12	14.323	16.354	15.693	45.6	142.7
P	865885889575657344	07 26 04.19238 +21 36 40.46610	5.5	6211.2	1155.0	-12.66	8.228	15.858	0	21.5	55.6
Ti330068	2033-12-24 20:11:57.14	07 20 09.65311 +21 51 31.87055	18.4	60.0	122.5	8.12	14.895	18.137	17.103	73.9	164.3
Pgt	866171036746705664	07 20 09.65372 +21 51 31.92991	13.7	351.1	718.0	-24.11	8.073	18.340	0	21.8	158.3
Ti330069	2033-12-26 12:51:28.02	07 19 25.80872 +21 52 39.25433	5.7	1422.7	89.4	184.39	14.839	16.185	15.679	182.2	166.2
P	866186468565991936	07 19 25.80089 +21 52 37.83576	4.5	8322.1	523.2	-24.57	8.065	16.409	0	21.8	135.5
Ti330070	2033-12-28 01:02:05.44	07 18 47.62281 +21 53 08.06978	11.2	546.4	158.3	182.22	14.211	17.251	16.280	357.9	167.9
Pt	3364186761279367168	07 18 47.62129 +21 53 07.52379	11.0	3194.8	926.2	-22.92	8.062	17.399	0	21.8	114.7
Ti330071	2033-12-28 10:24:27.23	07 18 38.26817 +21 53 13.47918	6.8	1269.4	174.7	181.92	14.933	16.355	15.878	216.8	168.3
P	3364185524328789376	07 18 38.26511 +21 53 12.21050	6.5	7421.7	1021.9	-22.22	8.061	16.470	0	21.8	109.2
Ti340001	2034-01-21 16:49:40.02	07 10 38.52810 +22 10 17.64031	6.2	206.7	199.2	196.51	14.913	16.531	16.033	94.6	165.1
Pgt	3367393418222813056	07 10 38.52387 +22 10 17.44217	5.1	1211.3	1167.4	-17.73	8.081	16.401	0	22.1	148.7
Ti340002	2034-01-25 20:29:48.26	07 09 07.39993 +22 14 43.69914	5.1	612.2	112.0	186.97	13.478	15.740	15.014	35.1	160.5
Pt	336738908889593088	07 09 07.39458 +22 14 43.09148	4.0	3592.9	657.9	-23.68	8.092	15.923	0	22.2	90.2
Ti340003	2034-01-29 06:47:14.34	07 07 44.82844 +22 15 51.37425	18.4	408.0	176.4	180.57	14.117	17.614	16.468	237.0	156.7
Pgt	3368136924312871296	07 07 44.82815 +22 15 50.96631	17.0	2401.4	1039.0	-20.29	8.116	17.629	0	22.2	41.7
Ti340004	2034-02-11 00:36:25.60	07 04 28.25031 +22 24 03.61005	3.9	272.8	99.3	5.98	14.103	15.542	15.084	316.4	143.0
Pgt	3367840472779027456	07 04 28.25236 +22 24 03.88133	3.2	1626.1	592.3	-19.56	8.220	15.517	0	22.3	122.2
Ti340005*	2034-02-12 08:42:48.57	07 04 01.26657 +22 24 31.03850	4.6	468.2	95.0	182.25	10.960	12.559	12.022	193.3	141.5
P	3367837552201842944	07 04 01.26528 +22 24 30.56983	3.7	2795.6	567.9	-18.91	8.233	12.499	0	22.4	138.1
Ti340006	2034-02-27 03:30:25.83	07 01 23.10009 +22 30 37.88078	10.3	283.5	90.5	4.80	14.402	16.974	16.159	256.2	126.0
Pgt	3368020930125330816	07 01 23.10181 +22 30 38.16325	9.1	1729.2	552.6	-13.36	8.411	16.536	0	22.5	18.1
Ti340007	2034-03-25 23:25:23.41	07 00 49.95249 +22 33 04.42726	6.1	104.1	171.3	163.69	14.050	15.854	15.248	290.9	99.1
Pgt	3368063463183897600	07 00 49.95460 +22 33 04.32735	5.3	666.7	1096.9	7.93	8.831	14.849	0	22.5	23.5
Ti340008	2034-04-15 07:26:47.09	07 03 56.04914 +22 32 16.98111	5.1	911.6	108.9	184.14	14.035	15.600	15.090	151.3	79.8

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	3368033093472856576	07 03 56.04439 +22 32 16.07189	3.7	6054.6	724.0	9.79	9.158	14.824	0	22.5	128.0
Ti340009	2034-05-08 08:53:42.20	07 10 46.17775 +22 20 54.71527	4.7	1277.4	129.7	187.20	12.760	15.277	14.529	108.5	58.9
P	3367404756936422912	07 10 46.16620 +22 20 53.44799	3.9	8825.9	896.0	29.28	9.527	15.691	0	22.3	172.8
Ti340010	2034-05-12 14:27:17.07	07 12 42.10001 +22 19 05.97721	7.8	632.9	146.6	1.44	14.933	16.396	15.817	21.4	55.3
Pt	3367446053046348672	07 12 42.10116 +22 19 06.60987	6.7	4399.6	1018.5	29.71	9.585	16.825	0	22.3	131.0
Ti340011	2034-05-19 06:03:18.37	07 15 11.68246 +22 16 28.85367	2.2	1274.8	82.7	191.06	11.321	12.721	12.222	141.5	49.5
P	3367268829810949376	07 15 11.66487 +22 16 27.60159	1.7	8932.7	580.1	23.97	9.661	12.918	0	22.2	33.9
Ti340012**	2034-09-12 18:44:53.79	08 14 10.08561 +19 58 13.12643	40.6	579.9	153.8	193.23	14.972	18.353	17.148	211.0	48.3
Pt	675613512602335360	08 14 10.07620 +19 58 12.56192	28.1	4079.4	1081.7	32.41	9.700	18.877	0	19.9	49.5
Ti340013	2034-09-20 18:25:40.29	08 17 43.72921 +19 50 12.04671	12.1	1094.7	166.3	9.66	14.448	17.324	16.410	208.8	55.3
P	663568843757342080	08 17 43.74224 +19 50 13.12592	8.4	7613.9	1157.0	23.97	9.589	17.520	0	19.7	144.8
Ti340014	2034-09-29 23:10:41.38	08 20 42.70766 +19 38 40.46193	15.1	460.6	113.6	11.21	14.662	17.796	16.809	129.2	63.5
P	663580938385450112	08 20 42.71400 +19 38 40.91372	11.5	3162.7	779.5	27.45	9.468	18.139	0	19.5	91.2
Ti340015	2034-10-18 13:32:55.43	08 26 03.28107 +19 23 35.43461	13.5	581.6	90.5	4.99	14.142	17.474	16.413	256.7	80.6
Pt	662591309200026752	08 26 03.28465 +19 23 36.01397	9.2	3871.1	601.8	19.16	9.178	17.427	0	19.3	148.5
Ti340016	2034-11-02 14:48:15.57	08 28 26.19029 +19 16 42.83316	2.5	497.9	63.4	182.24	12.573	13.861	13.419	223.6	95.1
P	662899653492453376	08 28 26.18891 +19 16 42.33560	1.6	3225.1	410.1	12.31	8.930	13.334	0	19.2	4.4
Ti340017	2034-12-02 01:59:48.24	08 28 06.34874 +19 21 04.66353	4.7	859.8	160.0	19.08	13.949	15.665	15.080	26.6	124.8
P	662947963284501248	08 28 06.36859 +19 21 05.47613	3.5	5284.4	982.3	-3.78	8.474	13.855	0	19.2	27.5
Ti340018	2034-12-09 08:46:34.54	08 27 27.98722 +19 27 22.81866	1.6	705.1	195.9	200.85	11.407	12.588	12.166	277.5	132.4
Pt	662964387239540224	08 27 27.96950 +19 27 22.15849	1.3	4281.7	1189.5	-12.80	8.373	12.104	0	19.3	116.2
Ti340019	2034-12-14 17:28:56.38	08 26 03.16052 +19 31 13.48742	1.9	392.2	159.4	185.92	9.131	10.768	10.205	141.3	138.2
Pgt	663719098892922368	08 26 03.15767 +19 31 13.09648	1.5	2363.4	960.9	-15.57	8.308	10.496	0	19.4	176.1
Ti340020	2034-12-28 01:25:43.20	08 23 01.60606 +19 44 48.38827	12.3	1359.5	75.4	10.46	13.770	17.517	16.811	8.2	152.5
P	663421440479094784	08 23 01.62354 +19 44 49.72518	8.1	8066.4	447.8	-22.17	8.181	17.628	0	19.6	10.0
Ti350001	2035-01-11 09:40:13.43	08 18 46.09026 +20 01 09.84087	17.0	728.1	156.4	193.96	14.874	18.342	17.274	229.4	168.2
P	663665910018237056	08 18 46.07780 +20 01 09.13425	12.2	4279.5	919.8	-23.75	8.104	18.529	0	19.9	171.1
Ti350002	2035-01-14 18:24:49.56	08 17 20.73182 +20 04 48.48009	3.3	457.5	125.3	7.77	13.615	14.917	14.455	94.6	171.9
Pt	675587261762271616	08 17 20.73621 +20 04 48.93338	2.4	2685.4	736.3	-24.07	8.094	15.118	0	20.0	128.4
Ti350003	2035-01-31 04:16:09.41	08 11 45.14421 +20 24 04.57151	2.0	564.8	152.9	186.80	12.024	13.585	13.050	289.2	170.0
Pt	675841592545379456	08 11 45.13945 +20 24 04.01068	1.4	3318.1	898.9	-23.10	8.100	13.741	0	20.3	99.1
Ti350004	2035-02-13 21:50:23.37	08 07 36.09515 +20 39 20.58029	17.4	1208.6	75.1	8.76	14.768	18.064	16.997	11.0	155.1
P	670655883392009984	08 07 36.10826 +20 39 21.77481	12.2	7158.6	445.2	-22.81	8.167	18.207	0	20.6	86.5
Ti350005	2035-02-19 14:16:23.95	08 05 48.93807 +20 42 16.33108	1.8	1307.7	165.0	11.51	11.812	13.039	12.597	118.5	148.9
P	670695259652092160	08 05 48.95666 +20 42 17.61245	1.3	7799.2	983.6	-12.15	8.223	12.498	0	20.6	6.8
Ti350006	2035-03-01 04:23:59.45	08 03 45.95758 +20 52 11.17561	3.9	1190.9	97.7	189.30	13.997	15.356	14.885	256.6	138.8
P	670897672870869760	08 03 45.94385 +20 52 10.00037	2.9	7173.9	589.2	-18.06	8.306	15.246	0	20.8	120.7
Ti350007	2035-03-04 20:59:05.72	08 02 44.10478 +20 53 24.49962	5.2	281.8	182.7	1.80	14.723	15.914	15.510	4.0	134.9
Pgt	670819092149165952	08 02 44.10541 +20 53 24.78129	3.8	1707.1	1107.6	-13.13	8.352	15.458	0	20.8	164.4
Ti350008	2035-03-16 01:40:08.88	08 01 25.86465 +20 59 58.02209	3.9	1290.6	147.3	12.85	13.344	15.271	14.642	282.3	123.3
P	670870803555425280	08 01 25.88514 +20 59 59.28035	2.5	7950.8	907.9	-11.09	8.494	14.630	0	20.9	43.9
Ti350009	2035-03-31 15:00:19.14	08 00 40.08036 +21 02 56.42613	11.4	294.5	159.3	201.96	14.738	17.454	16.637	66.8	107.7
Pgt	670881042757360000	08 00 40.07249 +21 02 56.15300	7.5	1864.3	1009.6	-3.34	8.728	15.511	0	20.9	157.9
Ti350010	2035-04-13 03:21:20.94	08 01 23.92645 +21 00 00.80815	1.7	462.9	160.0	355.25	11.732	13.255	12.729	229.4	95.6
Pt	670870803555589760	08 01 23.92372 +21 00 01.26943	1.1	3001.8	1037.6	9.69	8.942	12.469	0	20.9	32.3
Ti350011	2035-05-18 07:06:03.69	08 09 20.46048 +20 39 12.85228	5.8	355.0	155.8	10.01	13.649	15.611	14.994	140.5	63.3
Pgt	669908765240794368	08 09 20.46488 +20 39 13.20190	3.8	2446.2	1074.0	19.61	9.500	15.589	0	20.5	72.9
Ti350012	2035-05-25 11:44:04.07	08 11 31.27048 +20 30 11.08756	18.5	375.1	164.3	14.51	14.143	17.793	16.654	64.5	56.9
Pt	675846501691348992	08 11 31.27716 +20 30 11.45065	12.8	2614.2	1144.8	28.14	9.611	18.164	0	20.4	158.7
Ti350013	2035-05-27 21:27:52.29	08 12 34.05464 +20 27 01.33193	5.8	764.0	78.1	10.05	13.418	15.688	14.967	276.4	54.9

Table 2 continued on next page

Table 2 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	675836369865216000	08 12 34.06412 +20 27 02.08422	3.8	5346.4	546.0	31.90	9.649	16.195	0	20.3	171.8
Ti350014	2035-05-30 17:09:46.95	08 13 52.22380 +20 24 18.97453	28.8	1086.0	132.5	187.56	14.937	18.830	17.973	338.5	52.5
P	675667968491119232	08 13 52.21364 +20 24 17.89793	20.4	7628.4	930.0	31.10	9.685	19.310	0	20.3	137.7
Ti350015*	2035-05-30 23:13:51.13	08 13 59.00348 +20 24 05.69118	3.1	427.5	142.0	187.53	11.516	13.274	12.685	247.2	52.3
Pt	675667938427776128	08 13 58.99949 +20 24 05.26741	2.5	3003.4	997.0	30.79	9.688	13.743	0	20.3	134.5
Ti350016	2035-05-31 02:15:39.82	08 14 02.35795 +20 23 58.66834	2.0	354.8	146.4	7.53	11.114	12.014	11.681	201.7	52.1
Pgt	675667727972573056	08 14 02.36128 +20 23 59.01890	1.7	2492.9	1028.2	30.62	9.689	12.477	0	20.3	132.9
Ti350017	2035-05-31 10:16:54.82	08 14 11.15641 +20 23 41.60573	8.0	1012.5	156.9	7.58	14.478	16.521	15.893	81.1	51.9
P	675665120929228032	08 14 11.16591 +20 23 42.60939	5.5	7117.6	1102.3	30.15	9.692	16.967	0	20.3	128.6
Ti350018	2035-06-04 14:19:02.52	08 15 47.63668 +20 19 44.64927	2.2	872.5	99.3	14.17	12.162	13.577	13.081	16.8	48.2
P	675655122245420928	08 15 47.65186 +20 19 45.49522	1.7	6160.3	701.5	24.49	9.735	13.797	0	20.2	70.3
Ti350019	2035-09-26 09:30:58.27	09 11 16.07292 +16 56 58.93429	12.7	1028.3	50.8	201.33	14.025	17.306	16.244	350.5	47.5
Pt	607985919630670720	09 11 16.04685 +16 56 57.97642	9.2	7277.8	359.5	24.72	9.758	17.536	0	16.8	19.3
Ti350020	2035-10-23 07:23:16.06	09 20 40.19233 +16 19 12.28732	2.8	1263.5	175.6	190.22	11.846	13.728	13.115	358.3	71.7
P	631017561496412928	09 20 40.17675 +16 19 11.04392	2.4	8602.6	1194.9	19.92	9.388	13.724	0	16.2	26.0
Ti350021	2035-10-28 16:20:48.46	09 21 45.53249 +16 14 24.45506	13.2	279.5	62.8	206.88	13.990	17.182	16.101	218.9	76.8
Pg	631005810465883904	09 21 45.52371 +16 14 24.20575	10.4	1883.8	423.3	11.64	9.293	16.595	0	16.1	47.6
Ti350022	2035-10-29 17:36:52.25	09 21 55.49604 +16 13 10.62659	3.3	540.2	118.8	26.50	12.710	14.024	13.584	198.9	77.8
P	631005501228308224	09 21 55.51278 +16 13 11.11002	2.5	3634.6	799.7	12.38	9.277	13.503	0	16.1	61.3
Ti350023	2035-11-02 10:27:10.27	09 22 41.63863 +16 09 03.71639	2.2	129.2	149.6	194.46	11.811	13.122	12.667	302.8	81.3
Pgt	630955851406340480	09 22 41.63640 +16 09 03.59132	1.8	864.4	1000.8	17.44	9.227	12.974	1	16.0	107.7
Ti350024	2035-11-07 13:44:50.68	09 24 00.20038 +16 06 06.31228	16.4	1290.6	161.0	5.44	14.936	17.557	16.789	248.7	86.2
P	630962207957922944	09 24 00.20887 +16 06 07.59706	12.7	8557.8	1067.0	14.02	9.143	17.171	0	15.9	168.5
Ti350025	2035-11-08 09:57:53.70	09 24 10.08477 +16 05 52.70894	2.6	1131.9	182.6	5.75	11.713	13.126	12.636	304.6	87.0
P	630962036159229184	09 24 10.09264 +16 05 53.83516	2.2	7492.3	1208.2	12.00	9.126	12.571	0	15.9	177.6
Ti360001	2036-01-07 07:00:01.68	09 20 53.43352 +16 30 19.18582	7.9	178.4	59.3	211.73	13.668	16.529	15.652	289.3	148.6
Pgt	631028346159197824	09 20 53.42700 +16 30 19.03407	6.0	1073.2	356.0	-11.15	8.294	15.894	0	16.3	114.8
Ti360002	2036-01-11 02:57:58.76	09 20 09.89751 +16 36 33.78606	4.1	1040.0	201.5	206.30	13.270	14.848	14.312	345.8	152.7
Pt	631783955460741760	09 20 09.86546 +16 36 32.85371	3.2	6227.8	1206.3	-16.39	8.257	14.632	0	16.5	60.8
Ti360003	2036-01-11 21:14:16.92	09 19 57.91481 +16 37 51.13450	12.7	1318.3	206.9	23.55	14.378	16.701	15.954	70.9	153.5
P	631785016317635840	09 19 57.95146 +16 37 52.34295	8.9	7886.8	1238.0	-17.98	8.249	16.586	0	16.5	49.3
Ti360004	2036-02-06 03:46:04.04	09 11 48.44841 +17 14 50.04643	9.0	129.9	162.0	199.61	14.264	17.045	16.224	306.0	178.4
Pgt	635021330010163584	09 11 48.44537 +17 14 49.92410	6.6	769.0	959.0	-16.52	8.165	16.838	0	17.1	77.9
Ti360005	2036-03-03 05:12:13.26	09 04 05.50595 +17 52 51.77376	18.0	88.5	59.6	191.35	14.455	17.731	16.658	256.9	150.5
Pgt	612078916089193344	09 04 05.50473 +17 52 51.68695	16.0	530.8	357.6	-21.67	8.267	17.819	0	17.7	91.9
Ti360006	2036-03-07 06:21:43.88	09 02 49.61378 +17 55 57.93534	7.3	848.7	199.3	191.07	14.748	16.410	15.850	235.2	146.2
Pt	612093935591359360	09 02 49.60236 +17 55 57.10240	6.0	5115.6	1201.2	-14.53	8.311	16.062	0	17.8	36.0
Ti360007	2036-04-29 06:38:59.39	08 59 25.90669 +18 10 47.67519	5.0	306.2	100.0	185.08	12.973	15.284	14.548	177.8	93.1
Pg	612255357642148352	08 59 25.90479 +18 10 47.37016	3.6	2012.7	656.7	12.41	9.062	14.766	0	18.0	55.8
Ti360008	2036-05-25 00:14:47.79	09 04 20.68413 +17 48 48.06659	23.4	389.6	161.7	203.86	14.458	17.649	16.632	249.7	69.4
Pt	611327125013804672	09 04 20.67309 +17 48 47.71029	17.6	2676.5	1111.3	18.75	9.472	17.578	0	17.7	80.1
Ti360009	2036-05-31 15:25:43.38	09 06 38.70363 +17 39 37.96205	5.3	870.5	112.5	11.45	13.206	15.219	14.554	16.0	63.6
P	611283011405161216	09 06 38.71572 +17 39 38.81520	4.6	6050.2	781.4	26.65	9.583	15.531	0	17.5	15.4
Ti360010	2036-11-05 16:57:15.90	10 14 25.15607 +12 15 28.54603	2.7	200.4	44.1	13.08	8.345	10.586	9.891	214.3	72.3
Pg	3880659426184605952	10 14 25.15916 +12 15 28.74015	2.5	1376.5	302.5	23.70	9.470	10.770	0	12.1	87.0

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

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

Table 3. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 3 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Ti360011	2036-12-19 22:22:21.32	10 19 07.51583 +11 58 56.05543	5.4	722.8	190.6	202.65	13.475	15.147	14.559	90.6	115.8
Pt	3883602818812479360	10 19 07.49686 +11 58 55.38833	3.8	4586.7	1208.3	-3.31	8.749	13.193	0	11.8	141.7
Ti370001	2037-01-13 13:30:17.51	10 16 27.87475 +12 22 51.15825	12.6	1131.8	198.2	25.51	14.228	16.952	16.115	198.6	141.6
P	3880676812212438528	10 16 27.90802 +12 22 52.17972	10.8	6922.1	1212.5	-15.12	8.433	16.649	0	12.2	109.5
Ti370002*	2037-01-30 14:28:37.26	10 12 16.85243 +12 49 26.01159	5.3	1373.2	166.8	200.40	12.917	14.169	13.711	166.2	160.0
P	3880959734593427968	10 12 16.81971 +12 49 24.72453	4.0	8259.6	1003.9	-21.71	8.294	14.258	0	12.6	33.8
Ti370003	2037-02-05 18:44:10.28	10 10 05.60866 +12 59 10.28205	14.6	1417.3	201.6	19.53	14.259	17.297	16.371	95.7	166.8
P	3881702278604054144	10 10 05.64108 +12 59 11.61777	13.3	8500.2	1209.3	-19.03	8.269	17.242	0	12.8	58.5
Ti370004	2037-02-26 22:39:33.05	10 03 57.44735 +13 36 34.04627	13.8	402.3	100.4	30.44	13.239	17.304	15.663	14.5	170.0
Pgt	3881951631520399616	10 03 57.46133 +13 36 34.39313	12.4	2412.7	601.8	-15.84	8.268	17.051	0	13.4	33.4
Ti370005	2037-02-27 01:55:53.76	10 03 55.60227 +13 36 49.92008	13.4	306.9	109.0	30.29	14.879	17.096	16.404	325.2	169.8
Pgt	3881951627226659392	10 03 55.61289 +13 36 50.18504	13.3	1840.2	653.0	-15.96	8.268	16.851	0	13.4	31.4
Ti370006	2037-03-03 04:30:47.98	10 02 46.26689 +13 44 41.73992	28.6	120.9	176.7	19.49	14.991	18.288	17.319	282.2	165.4
Pgt	615345874373283584	10 02 46.26966 +13 44 41.85392	18.4	725.5	1060.5	-22.25	8.272	18.403	0	13.6	31.2
Ti370007	2037-03-10 18:39:46.99	10 00 12.00945 +13 55 17.85488	3.6	131.7	179.6	21.17	13.241	14.745	14.232	61.8	157.2
Pgt	615402430502751744	10 00 12.01271 +13 55 17.97765	2.9	794.5	1083.1	-15.21	8.320	14.447	0	13.7	135.1
Ti370008	2037-05-20 18:28:15.23	09 55 13.49614 +14 19 52.89414	13.0	325.8	182.3	18.43	13.992	17.226	16.163	353.5	86.4
Pgt	616047019194175232	09 55 13.50323 +14 19 53.20319	9.8	2189.4	1225.5	10.30	9.267	16.505	0	14.2	17.5
Ti370009	2037-06-27 01:02:17.52	10 04 39.55216 +13 24 32.12158	18.3	108.0	107.5	207.24	14.395	17.478	16.484	220.6	53.3
Pgt	3881933554003193856	10 04 39.54877 +13 24 32.02560	17.3	770.1	767.7	23.85	9.835	17.670	0	13.2	119.4
Ti370010*	2037-11-04 08:58:42.61	11 01 02.86474 +08 04 08.90390	7.2	1167.3	171.3	21.24	11.511	13.010	12.497	347.1	58.5
P	3866636117444928768	11 01 02.89321 +08 04 09.99197	5.0	8286.0	1216.0	25.25	9.787	13.263	0	7.9	15.1
Ti370011	2037-11-21 19:21:12.47	11 05 55.78409 +07 38 09.89187	3.2	562.1	150.8	196.49	11.825	13.554	12.964	175.5	74.7
P	3818345875991248640	11 05 55.77336 +07 38 09.35291	2.8	3884.0	1041.1	20.17	9.528	13.564	0	7.4	117.9
Ti380001	2038-03-12 01:35:19.35	10 55 13.15659 +09 08 20.06910	26.2	801.0	200.1	201.92	14.606	18.497	17.349	330.6	170.3
Pt	3867752740222434432	10 55 13.13640 +09 08 19.32595	20.1	4858.5	1213.3	-19.27	8.363	18.456	0	8.9	104.1
Ti380002	2038-07-20 06:17:59.98	10 59 02.56032 +08 30 24.61470	20.9	1186.6	81.2	19.90	14.530	17.819	16.772	132.6	45.6
P	3866723253741869824	10 59 02.58754 +08 30 25.73042	16.1	8667.6	592.8	34.76	10.072	18.420	0	8.3	177.2
Ti380003	2038-11-13 14:10:45.41	11 48 57.16589 +03 23 02.27787	31.0	734.1	150.3	199.27	14.650	18.171	16.992	272.2	54.7
P	3895746684223270656	11 48 57.14971 +03 23 01.58496	22.3	5301.5	1084.7	29.15	9.958	18.580	0	3.2	107.5
Ti390001	2039-01-12 20:25:28.76	11 58 51.66702 +02 34 12.60671	3.2	1120.1	55.2	326.06	11.092	12.492	12.000	121.6	113.2
P	3892442411263341696	11 58 51.62527 +02 34 13.53428	1.7	7321.8	360.3	4.39	9.012	10.845	0	2.4	38.8
Ti390002	2039-02-10 13:32:27.53	11 55 27.22360 +03 03 01.99496	5.7	135.0	195.1	28.48	13.559	15.178	14.622	195.7	143.3
Pgt	3892715334961556352	11 55 27.22790 +03 03 02.11358	4.3	845.2	1221.7	-14.19	8.635	14.805	0	2.8	19.0
Ti390003	2039-02-19 16:24:08.53	11 53 53.08460 +03 18 13.18470	29.0	899.2	175.7	21.89	14.854	18.155	17.040	143.4	152.9
Pt	3892785080933972864	11 53 53.10698 +03 18 14.01904	17.5	5577.1	1090.2	-19.16	8.552	18.108	0	3.1	109.6
Ti390004	2039-12-17 11:38:46.94	12 42 01.31110 -01 59 47.15282	14.6	649.3	141.8	197.26	14.198	16.913	16.101	290.3	74.4
P	3683092824650171904	12 42 01.29824 -01 59 47.72288	13.4	4596.6	1003.4	20.71	9.761	16.951	0	-2.2	100.0
Ti400001	2040-03-15 14:24:57.17	12 37 29.64979 -01 10 18.83262	11.3	1079.3	197.0	26.45	14.795	16.797	16.150	159.8	165.7
P	3695400757811443712	12 37 29.68185 -01 10 17.86629	8.1	6732.1	1228.9	-19.49	8.600	16.769	0	-1.4	162.2
Ti400002	2040-03-21 05:14:42.86	12 36 17.29625 -00 59 14.22607	11.4	519.1	116.2	210.10	14.063	16.590	15.756	291.5	171.5
Pt	3695456278853220352	12 36 17.27889 -00 59 14.67512	7.7	3233.3	723.1	-15.92	8.589	16.342	0	-1.2	92.9
Ti400003	2040-03-29 16:48:15.99	12 33 34.80218 -00 44 05.93193	4.7	1388.2	154.7	20.71	11.713	14.728	13.773	109.1	177.1
P	3695657459417483008	12 33 34.83492 -00 44 04.63350	3.3	8626.9	962.1	-23.60	8.569	14.907	0	-1.0	14.4
Ti400004	2040-04-08 15:04:32.75	12 31 09.08937 -00 25 29.55800	7.0	50.2	194.6	20.94	13.744	15.427	14.851	124.7	168.2
Pgt	3696473881160665984	12 31 09.09056 -00 25 29.51112	6.7	312.8	1212.4	-19.64	8.591	15.407	0	-0.6	154.3
Ti400005	2040-04-09 05:18:32.91	12 30 58.67608 -00 24 32.77805	7.4	584.0	186.8	19.46	12.954	15.751	14.854	270.5	167.6

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	3696476939177319040	12 30 58.68905 -00 24 32.22743	5.6	3638.9	1164.2	-20.79	8.592	15.793	0	-0.6	162.5
Ti400006	2040-04-10 00:01:38.53	12 30 44.01870 -00 23 16.41035	9.6	1400.5	160.7	197.98	13.835	16.355	15.570	348.9	166.8
P	3696477901249992960	12 30 43.98987 -00 23 17.74245	8.0	8727.5	1001.9	-22.22	8.592	16.469	0	-0.6	173.1
Ti400007	2040-04-15 04:55:24.45	12 28 56.70262 -00 14 46.97424	6.2	1388.0	178.4	20.85	12.898	15.357	14.624	269.9	161.3
P	3696450963215039232	12 28 56.73555 -00 14 45.67710	4.1	8674.6	1115.2	-21.04	8.617	15.412	0	-0.5	119.1
Ti400008	2040-04-30 15:49:46.36	12 25 14.58272 +00 07 28.65822	18.5	1362.9	158.7	197.96	13.351	16.997	15.811	90.2	145.3
P	3696718453778378240	12 25 14.55471 +00 07 27.36170	11.5	8629.8	1005.3	-18.13	8.730	16.890	0	-0.1	82.3
Ti400009	2040-05-15 04:11:50.34	12 22 45.54490 +00 21 26.88144	7.7	863.4	74.5	191.58	14.262	15.647	15.168	249.7	130.6
P	3699734173655409536	12 22 45.53335 +00 21 26.03559	5.3	5566.0	481.0	-14.98	8.888	15.333	0	0.1	85.7
Ti400010	2040-07-26 07:18:48.05	12 28 12.55386 -00 29 23.50489	3.2	786.3	78.4	21.25	11.030	12.679	12.119	133.2	63.3
Pt	3696436733987034880	12 28 12.57286 -00 29 22.77389	2.5	5718.1	569.5	27.36	10.027	13.019	0	-0.7	148.1
Ti400011	2040-08-14 07:41:39.10	12 34 16.45307 -01 11 25.78581	12.1	43.4	162.2	206.14	12.686	16.078	14.981	110.3	46.8
Pg	3695437557091148160	12 34 16.45179 -01 11 25.82481	7.5	323.8	1209.3	29.87	10.278	16.514	0	-1.4	25.3
Ti400012	2040-12-09 22:04:25.54	13 22 42.88038 -06 11 52.61417	3.7	768.3	113.4	201.71	11.258	12.733	12.227	150.8	56.5
P	3634582302913022464	13 22 42.86132 -06 11 53.32948	3.0	5656.0	835.2	21.77	10.150	12.826	0	-6.4	132.7
Ti410001	2041-01-22 11:59:44.47	13 31 59.23559 -06 53 10.60536	38.9	159.2	152.2	37.14	14.796	18.086	16.988	261.4	98.4
Pgt	3630874028149610496	13 31 59.24204 -06 53 10.47846	22.0	1092.4	1044.0	3.07	9.462	16.052	0	-7.1	24.9
Ti410002	2041-03-20 08:01:30.77	13 25 47.37193 -06 03 26.27595	22.7	59.0	114.8	33.59	14.688	17.634	16.732	263.4	157.3
Pgt	3631949105708165760	13 25 47.37411 -06 03 26.22684	12.6	374.5	728.7	-14.37	8.757	17.275	0	-6.3	5.7
Ti410003	2041-04-12 10:40:22.02	13 19 43.27486 -05 24 29.84839	29.7	1066.8	151.5	196.40	12.159	14.346	13.325	199.3	176.6
Pt	3634882469587352576	13 19 43.25470 -05 24 30.87181	22.2	6713.9	953.8	-23.18	8.677	14.507	0	-5.6	43.9
Ti410004	2041-04-19 10:40:44.33	13 17 21.08224 -05 12 12.93322	37.2	263.7	185.7	26.56	14.694	18.179	17.051	191.8	170.2
Pgt	3634930568925626112	13 17 21.09014 -05 12 12.69733	26.1	1663.3	1171.1	-18.66	8.696	18.104	0	-5.4	44.9
Ti410005	2041-04-30 19:27:54.46	13 14 26.63236 -04 55 04.70915	11.1	490.2	41.6	15.64	14.010	16.301	15.609	48.0	158.6
Pt	3635747098043650048	13 14 26.64120 -04 55 04.23713	8.3	3105.4	263.5	-23.60	8.735	16.480	0	-5.1	154.5
Ti410006	2041-05-10 17:18:31.08	13 12 12.89758 -04 40 39.30657	8.6	1100.8	141.6	202.92	13.856	15.306	14.803	70.1	148.5
P	3635864470909991552	13 12 12.86890 -04 40 40.32042	5.4	7042.9	905.2	-12.18	8.822	14.767	0	-4.9	30.6
Ti410007	2041-08-09 14:09:40.34	13 14 09.89690 -05 17 28.63961	24.1	923.7	144.7	200.04	13.967	17.577	16.437	28.2	62.3
P	3635596769892788736	13 14 09.87571 -05 17 29.50735	20.8	6798.9	1064.5	25.59	10.149	17.844	0	-5.5	82.9
Ti410008	2041-08-12 16:50:42.64	13 15 14.37390 -05 23 13.55207	7.4	1099.1	41.6	20.17	12.748	14.987	14.266	345.1	59.6
P	3635576948619345408	13 15 14.39928 -05 23 12.52037	5.1	8129.4	307.6	29.57	10.198	15.411	0	-5.6	129.2
Ti420001	2042-01-04 05:47:33.59	14 12 41.20305 -10 47 00.63897	18.6	66.5	67.8	14.00	13.839	17.275	16.161	22.8	68.8
Pgt	6304816213034656128	14 12 41.20414 -10 47 00.57447	16.2	485.8	494.9	25.48	10.076	17.538	0	-11.0	136.5
Ti420002	2042-01-13 21:22:59.46	14 14 43.70185 -10 57 40.33109	7.9	49.8	149.1	192.52	13.572	15.528	14.931	140.0	78.1
Pgt	6304613696736806016	14 14 43.70112 -10 57 40.37968	6.4	357.8	1071.9	12.53	9.911	15.021	0	-11.2	18.3
Ti420003	2042-01-19 01:26:46.44	14 15 51.13991 -11 00 10.01041	14.7	169.1	58.2	9.19	14.154	16.835	16.002	74.2	83.1
Pg	6304598539796983296	14 15 51.14175 -11 00 09.84349	11.2	1206.4	415.1	18.40	9.838	16.744	0	-11.2	46.7
Ti420004	2042-02-03 10:18:01.18	14 17 44.80533 -11 06 05.50828	10.8	808.7	83.3	359.78	14.400	16.004	15.458	286.7	98.2
Pt	6304637851633078016	14 17 44.80512 -11 06 04.69960	9.2	5620.2	578.0	10.42	9.582	15.296	0	-11.3	100.3
Ti420005	2042-03-27 07:31:52.14	14 13 18.19262 -10 30 19.21658	13.5	181.1	176.2	18.67	14.782	16.633	15.995	276.0	151.4
Pgt	6304875449223693312	14 13 18.19655 -10 30 19.04498	13.4	1168.2	1136.1	-14.34	8.892	16.271	0	-10.7	132.4
Ti420006	2042-04-17 03:29:37.09	14 07 32.37162 -10 00 35.11227	5.7	114.4	55.8	15.86	13.447	15.375	14.754	314.6	173.0
Pgt	3614804768789029760	14 07 32.37374 -10 00 35.00225	5.0	728.2	355.7	-25.45	8.778	15.637	0	-10.2	132.1
Ti420007	2042-04-29 23:46:57.38	14 04 01.64668 -09 40 16.75100	4.9	687.4	173.4	13.69	12.637	14.573	13.938	356.7	172.5
Pt	3614700177745384832	14 04 01.65769 -09 40 16.08313	3.7	4379.3	1104.9	-21.76	8.784	14.665	0	-9.9	50.7
Ti420008	2042-05-18 15:10:48.02	13 58 47.06121 -09 15 22.22636	9.7	761.4	49.8	193.24	14.294	16.080	15.548	106.1	153.5
P	3615702520032814336	13 58 47.04944 -09 15 22.96750	7.8	4896.7	320.8	-22.61	8.868	16.213	0	-9.5	164.2
Ti420009	2042-05-22 05:42:10.82	13 57 42.03234 -09 10 36.01087	20.0	290.0	189.3	21.21	14.415	17.546	16.549	244.4	149.8
Pgt	3615717908900598144	13 57 42.03943 -09 10 35.74053	14.5	1872.3	1222.7	-17.63	8.902	17.409	0	-9.4	112.9
Ti420010	2042-06-10 18:04:49.24	13 54 09.18004 -08 53 34.28493	24.7	534.1	81.0	34.05	14.007	17.560	16.388	38.6	130.2

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	3618704869676295680	13 54 09.20022 -08 53 33.84240	23.2	3532.1	535.3	-5.32	9.118	16.122	0	-9.1	136.0
Ti420011	2042-08-26 10:34:52.51	14 00 50.92959 -09 52 00.86152	14.3	77.1	166.1	19.18	14.205	16.482	15.759	77.2	58.8
Pgt	3615432001517203840	14 00 50.93130 -09 52 00.78870	11.6	575.9	1240.6	24.51	10.300	16.703	0	-10.1	60.9
Ti420012	2042-08-27 04:37:15.12	14 01 05.09427 -09 53 10.76525	8.6	565.0	159.0	198.18	13.692	15.341	14.778	165.9	58.2
P	3615420044328242176	14 01 05.08234 -09 53 11.30203	7.8	4225.8	1189.3	26.29	10.313	15.638	0	-10.1	70.7
Ti420013*	2042-09-11 02:05:23.84	14 06 04.60057 -10 23 14.43436	75.2	487.1	161.8	19.14	14.236	17.611	16.463	190.5	45.1
Pt	3614416125788143104	14 06 04.61139 -10 23 13.97415	57.9	3710.7	1232.3	29.41	10.503	18.030	0	-10.6	81.9
Ti430001	2043-01-22 01:37:01.45	15 00 23.87306 -14 38 23.29544	12.7	238.7	63.6	10.87	14.218	16.335	15.621	80.1	74.4
Pg	6307285578712149760	15 00 23.87616 -14 38 23.06103	10.3	1744.3	464.7	22.93	10.076	16.484	0	-14.8	146.4
Ti430002	2043-02-08 22:32:37.05	15 03 41.76546 -14 48 12.60871	17.3	1021.5	135.7	13.76	14.997	16.850	16.203	109.4	91.8
Pt	6308710855019338880	15 03 41.78221 -14 48 11.61654	16.9	7245.0	962.1	12.45	9.779	16.335	0	-15.0	80.0
Ti430003*	2043-03-29 20:36:14.72	15 01 36.15532 -14 29 16.68931	8.3	542.4	177.1	192.16	11.502	13.442	12.819	89.8	141.3
Pt	6308783422786848256	15 01 36.14745 -14 29 17.21950	6.9	3567.1	1164.7	-11.90	9.068	12.877	0	-14.7	10.1
Ti430004	2043-04-05 10:56:45.65	14 59 50.23914 -14 23 18.29421	48.7	936.7	150.2	199.24	14.874	18.606	17.852	227.7	148.2
Pt	6311796389589260672	14 59 50.21790 -14 23 19.17864	38.6	6113.2	980.8	-19.72	8.998	18.591	0	-14.6	90.4
Ti430005	2043-04-17 09:02:48.06	14 57 09.48467 -14 09 27.51035	6.6	548.9	133.5	11.04	13.442	15.042	14.473	243.8	160.5
Pt	6310378711079638912	14 57 09.49189 -14 09 26.97163	6.0	3547.6	863.4	-22.29	8.912	15.160	0	-14.3	97.4
Ti430006	2043-04-22 04:51:39.52	14 55 28.40424 -14 02 55.75522	12.7	1362.2	180.6	20.15	14.732	16.402	15.891	301.4	165.6
P	6310568028943004800	14 55 28.43648 -14 02 54.47637	9.2	8784.3	1165.1	-21.83	8.891	16.497	0	-14.2	37.3
Ti430007*	2043-04-22 13:25:35.26	14 55 21.79458 -14 02 19.09310	8.1	808.6	188.0	20.97	11.887	13.422	12.904	172.5	166.0
Pt	6310568308115702400	14 55 21.81447 -14 02 18.33805	6.7	5214.2	1212.5	-21.21	8.891	13.485	0	-14.2	33.0
Ti430008	2043-05-15 03:40:47.87	14 49 05.00532 -13 32 20.85082	3.5	478.4	137.0	195.33	12.531	13.897	13.402	294.9	170.0
Pt	6311352397345431296	14 49 04.99664 -13 32 21.31221	3.3	3082.7	881.9	-15.60	8.884	13.627	0	-13.7	88.9
Ti430009	2043-05-17 21:58:38.33	14 48 20.26425 -13 30 07.32808	9.6	1100.5	177.5	9.79	13.791	15.879	15.208	17.5	167.2
Pt	6311359406732068096	14 48 20.27708 -13 30 06.24360	9.3	7091.9	1144.2	-20.81	8.885	15.922	0	-13.7	53.8
Ti430010	2043-05-18 19:54:01.48	14 48 02.29686 -13 29 20.82863	9.2	431.3	148.4	189.81	13.886	15.952	15.304	47.7	166.3
Pt	6311362185575475584	14 48 02.29183 -13 29 21.25360	8.4	2779.5	957.0	-22.60	8.886	16.085	0	-13.7	42.7
Ti430011	2043-06-03 22:01:21.95	14 43 46.60687 -13 12 15.88684	3.2	605.3	138.6	188.08	10.150	12.699	11.901	358.9	149.9
Pt	6311608270021612288	14 43 46.60108 -13 12 16.48714	3.0	3943.9	903.5	-19.86	8.984	12.691	0	-13.4	160.1
Ti430012	2043-06-22 22:30:39.54	14 39 51.03722 -12 59 23.68537	14.8	1331.1	98.0	190.85	14.824	16.967	16.269	331.9	130.8
P	6323320237816147328	14 39 51.02008 -12 59 24.99269	14.2	8865.4	653.6	-15.11	9.183	16.662	0	-13.2	53.5
Ti430013	2043-08-19 18:47:09.24	14 42 01.23383 -13 22 38.64022	7.3	524.3	152.8	204.41	13.726	15.098	14.621	331.3	76.2
P	6323233719994870272	14 42 01.21898 -13 22 39.11766	6.1	3837.7	1117.9	19.35	10.092	15.062	0	-13.6	93.5
Ti430014	2043-09-10 12:35:09.94	14 47 34.73892 -13 55 27.75263	77.1	196.7	78.0	202.52	14.895	18.999	17.757	44.2	56.6
Pg	6311309890053450496	14 47 34.73374 -13 55 27.93434	61.7	1485.3	589.3	20.79	10.411	19.041	0	-14.1	23.3
Ti430015	2043-09-12 23:46:35.64	14 48 16.10021 -13 58 55.30675	6.8	895.2	159.8	196.36	12.415	13.991	13.473	234.1	54.4
P	6311264711293008128	14 48 16.08288 -13 58 56.16573	6.6	6785.2	1211.2	25.07	10.450	14.237	0	-14.2	52.1
Ti440001	2044-01-06 04:28:36.91	15 38 35.82707 -17 21 26.35558	11.1	754.5	115.4	8.60	13.690	15.782	15.110	62.7	48.4
Pt	6261253768506155136	15 38 35.83495 -17 21 25.60952	7.7	5775.6	883.1	33.33	10.554	16.337	0	-17.5	114.1
Ti440002	2044-01-12 12:56:43.36	15 41 12.24633 -17 29 38.46923	10.6	1085.1	152.9	197.00	14.088	15.736	15.189	290.0	54.3
P	6261181441257013760	15 41 12.22415 -17 29 39.50697	9.4	8235.0	1160.6	26.07	10.464	16.024	0	-17.6	156.2
Ti440003	2044-01-17 06:36:56.30	15 42 31.40601 -17 34 49.11537	18.1	822.6	105.9	190.12	14.637	16.945	16.223	20.7	58.8
Pt	6260519329097446272	15 42 31.39590 -17 34 49.92521	14.2	6201.0	798.8	20.22	10.393	16.957	0	-17.7	87.6
Ti440004	2044-01-18 12:31:08.55	15 42 01.96562 -17 35 35.10992	16.4	496.5	148.5	7.39	14.797	16.566	15.977	291.0	60.0
Pt	6260515824404103808	15 42 01.97009 -17 35 34.61753	10.6	3737.2	1117.9	21.58	10.378	16.649	0	-17.7	70.6
Ti440005	2044-01-29 08:03:15.49	15 46 21.85206 -17 44 29.27695	11.0	197.9	139.3	198.20	13.498	15.430	14.799	348.1	70.1
Pgt	6260466002783571456	15 46 21.84773 -17 44 29.46494	7.5	1466.0	1032.3	17.10	10.214	15.260	0	-17.9	60.9
Ti440006*	2044-02-10 06:35:06.77	15 49 01.41452 -17 49 29.67568	8.2	586.0	98.8	190.51	12.930	14.526	13.985	359.1	81.6
Pt	6260638007635627520	15 49 01.40703 -17 49 30.25182	5.6	4263.5	718.3	18.88	10.032	14.463	0	-18.0	138.4
Ti440007	2044-03-14 20:32:03.43	15 51 43.05426 -17 52 01.73962	6.2	515.9	161.2	305.54	12.675	14.866	14.169	117.4	114.7

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	6260579183763707392	15 51 43.02486 -17 52 01.43973	4.1	3547.8	1105.5	-0.96	9.481	11.570	0	-18.0	52.8
Ti440008	2044-04-02 09:15:03.32	15 49 49.51911 -17 44 25.92887	31.6	851.8	146.2	5.26	14.951	18.011	17.010	267.9	133.5
Pt	6260639759982275200	15 49 49.52459 -17 44 25.08063	18.8	5695.7		-14.262	9.219	17.641	0	-17.9	170.1
Ti440009	2044-04-02 10:13:00.69	15 49 49.00538 -17 44 24.69766	3.0	304.9	144.7	5.35	11.582	13.235	12.681	253.4	133.5
Pgt	6260639759982275712	15 49 49.00737 -17 44 24.39410	1.9	2038.4	967.8	-14.31	9.219	12.872	0	-17.9	169.7
Ti440010	2044-04-22 19:10:24.77	15 45 08.63779 -17 28 12.35696	12.5	1226.1	156.9	196.45	14.390	16.337	15.697	97.8	154.6
P	6260533072992673024	15 45 08.61352 -17 28 13.53287	8.6	8021.2	1026.9	-21.08	9.020	16.394	0	-17.6	90.9
Ti440011*	2044-05-09 02:08:03.62	15 40 31.03890 -17 12 23.29955	9.4	541.4	171.7	196.38	11.551	13.154	12.618	336.2	171.3
Pt	6261341866874029952	15 40 31.02824 -17 12 23.81899	8.0	3511.4	1114.1	-22.94	8.942	13.303	0	-17.3	42.0
Ti440012	2044-05-19 14:58:58.28	15 37 42.11729 -17 02 05.64251	3.3	782.2	166.2	6.44	9.807	10.950	10.540	132.4	176.6
Pt	6261454120140877568	15 37 42.12344 -17 02 04.86574	2.6	5067.5	1077.3	-22.52	8.933	11.078	0	-17.2	86.4
Ti440013	2044-07-22 06:18:46.28	15 24 42.40157 -16 27 16.90984	17.9	478.1	156.0	155.04	14.556	16.849	16.207	196.4	113.5
Pt	6259484654292549504	15 24 42.41560 -16 27 17.34324	15.0	3295.8	1076.1	-5.80	9.505	15.505	0	-16.6	147.5
Ti440014*	2044-08-20 17:45:52.99	15 26 26.18494 -16 40 18.23596	6.2	873.2	147.1	203.92	11.287	13.131	12.514	356.0	85.7
P	6258712900209502848	15 26 26.16030 -16 40 19.03417	5.2	6326.9	1065.8	15.03	9.990	12.822	0	-16.8	117.2
Ti440015	2044-09-04 19:13:33.77	15 29 23.11273 -16 54 33.46285	31.6	452.7	113.7	18.09	14.652	17.687	16.752	320.0	71.9
Pt	6258553230510797952	15 29 23.12253 -16 54 33.03252	30.5	3361.1	843.6	23.31	10.237	17.853	0	-17.1	77.6
Ti440016	2044-09-13 01:06:18.31	15 31 18.11717 -17 05 36.76576	33.8	676.0	132.8	14.65	14.020	17.992	16.749	224.2	64.4
P	6258485644905525760	15 31 18.12909 -17 05 36.11169	24.9	5076.1	997.5	18.51	10.353	17.907	0	-17.2	171.7
Ti440017	2044-09-18 21:52:19.67	15 33 12.75789 -17 11 22.51804	14.1	1087.0	65.3	193.50	13.823	16.509	15.662	267.4	59.2
P	6255489853676205696	15 33 12.74018 -17 11 23.57497	10.3	8238.9	495.0	30.16	10.451	16.955	0	-17.3	92.5
Ti440018	2044-09-22 05:07:26.01	15 34 28.02361 -17 16 36.97386	9.8	1156.7	150.4	199.25	14.185	15.733	15.176	155.7	56.3
P	6255475658803514752	15 34 27.99698 -17 16 38.06585	7.9	8801.8	1144.2	28.38	10.492	16.112	0	-17.4	46.9
Ti440019	2044-09-29 01:34:46.79	15 36 31.76700 -17 27 02.82506	6.3	1079.9	130.6	13.53	12.940	14.537	14.001	202.6	50.1
P	6261412991533874432	15 36 31.78466 -17 27 01.77512	4.9	8283.3	1002.4	24.83	10.576	14.772	0	-17.6	39.6
Ti450001	2045-01-25 16:05:32.97	16 29 34.99516 -19 58 24.39812	10.6	437.7	72.2	187.70	12.904	15.704	14.846	241.3	56.7
Pt	6052807495116749696	16 29 34.99100 -19 58 24.83192	8.0	3333.2	549.1	31.41	10.499	16.194	0	-20.1	139.6
Ti450002	2045-01-29 13:55:19.56	16 31 02.66158 -20 02 18.27396	35.9	496.0	155.4	193.41	14.925	17.987	17.108	270.3	60.3
P	6052754306241664768	16 31 02.65342 -20 02 18.75642	23.7	3753.6	1176.0	23.72	10.435	18.172	0	-20.1	164.6
Ti450003	2045-02-02 03:54:08.58	16 31 58.74027 -20 05 09.16010	47.6	299.7	69.6	188.12	14.968	18.588	17.567	57.3	63.7
Pg	6052746536643761664	16 31 58.73727 -20 05 09.45677	32.7	2255.1	523.9	17.17	10.376	18.423	0	-20.2	112.2
Ti450004*	2045-02-09 15:26:42.26	16 34 05.37649 -20 06 26.82581	81.4	517.4	80.7	184.70	14.197	18.145	16.935	237.4	70.8
Pt	4131017678374566912	16 34 05.37348 -20 06 27.34152	55.1	3856.2	601.2	24.71	10.275	18.375	0	-20.2	11.8
Ti450005	2045-02-10 14:20:27.57	16 34 24.64051 -20 06 54.52077	7.4	346.6	72.9	6.63	12.242	14.946	14.142	253.1	71.7
Pt	4131011527981392512	16 34 24.64335 -20 06 54.17654	5.0	2578.8	542.3	24.44	10.260	15.164	0	-20.2	7.3
Ti450006	2045-02-10 15:22:10.05	16 34 25.49275 -20 06 56.53927	9.1	955.6	73.5	6.72	12.776	15.348	14.561	237.6	71.7
P	4131011527981392128	16 34 25.50070 -20 06 55.59029	6.1	7110.2	546.5	24.41	10.260	15.564	0	-20.2	7.5
Ti450007*	2045-03-12 00:36:12.11	16 39 03.04527 -20 12 50.70785	23.5	1248.6	141.4	349.13	14.470	16.470	15.759	71.3	100.2
P	4130311409653147904	16 39 03.02855 -20 12 49.48167	17.2	8850.0	1001.3	8.27	9.773	15.511	0	-20.3	27.3
Ti450008	2045-03-14 12:43:02.37	16 39 22.02778 -20 12 31.36468	12.5	429.1	76.7	2.93	13.810	16.132	15.379	247.2	102.6
Pt	4130311620113039744	16 39 22.02934 -20 12 30.93616	8.9	3029.4	540.6	8.60	9.734	15.216	0	-20.3	56.3
Ti450009	2045-03-14 23:35:14.81	16 39 25.33997 -20 12 33.52089	9.6	905.1	86.4	185.70	13.449	15.613	14.921	83.7	103.0
P	4130299869082514432	16 39 25.33359 -20 12 34.42154	6.8	6385.1	609.0	8.19	9.727	14.643	0	-20.3	61.6
Ti450010	2045-03-26 16:26:07.26	16 39 09.39992 -20 11 37.50672	12.1	401.3	177.1	67.33	13.588	16.141	15.342	179.4	114.7
P	4130311551393402112	16 39 09.42623 -20 11 37.35208	8.5	2775.6	1224.1	-3.44	9.537	14.230	0	-20.3	146.4
Ti450011	2045-04-06 10:46:17.14	16 38 33.43696 -20 10 26.71809	15.0	924.3	80.8	186.45	13.606	16.703	15.782	253.6	125.5
P	4130221799457456896	16 38 33.42959 -20 10 27.63657	10.8	6283.3	549.9	-13.20	9.373	16.251	0	-20.3	7.7
Ti450012	2045-04-09 20:58:09.77	16 37 53.83637 -20 08 16.48802	12.8	679.3	172.3	200.04	13.665	16.345	15.509	97.1	129.0
Pt	4130974041506053760	16 37 53.81984 -20 08 17.12624	8.7	4597.6	1166.0	-11.81	9.331	15.773	0	-20.2	45.2
Ti450013	2045-04-13 22:55:28.93	16 37 24.29093 -20 05 03.21841	34.3	62.4	106.6	24.98	14.317	17.986	16.921	63.6	133.1

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4130976820345059712	16 37 24.29280 -20 05 03.16183	23.4	420.5	717.5	-6.16	9.290	16.708	0	-20.2	93.7
Ti450014	2045-04-20 11:20:37.92	16 36 29.15055 -20 04 17.19223	6.6	719.7	151.6	1.54	13.210	15.196	14.543	230.6	139.7
Pt	4130983352995323776	16 36 29.15193 -20 04 16.47278	4.9	4804.2	1012.3	-16.38	9.204	14.979	0	-20.2	173.1
Ti450015	2045-05-05 13:57:07.27	16 32 57.81342 -19 55 41.45406	28.9	592.5	174.4	181.46	14.935	17.983	17.038	175.8	155.2
Pt	4131212012754908672	16 32 57.81235 -19 55 42.04639	20.1	3898.0	1147.7	-19.01	9.071	17.928	0	-20.0	27.2
Ti450016	2045-05-07 11:42:27.23	16 32 20.42291 -19 55 13.72417	12.1	486.4	109.8	184.79	13.130	16.276	15.376	207.4	157.2
Pt	4131214181715692032	16 32 20.42003 -19 55 14.20883	7.6	3193.5	721.3	-22.76	9.053	16.417	0	-20.0	49.7
Ti450017	2045-05-07 16:59:41.79	16 32 15.73180 -19 55 08.03627	8.1	351.2	100.9	185.27	12.699	15.446	14.626	127.8	157.4
Pgt	4131214250435171072	16 32 15.72951 -19 55 08.38595	5.2	2305.4	662.9	-23.03	9.052	15.599	0	-20.0	52.3
Ti450018	2045-05-12 05:16:33.78	16 30 41.29893 -19 51 07.88525	36.9	660.8	188.0	194.91	13.645	18.322	17.151	298.8	162.1
P	6052813160176214912	16 30 41.28688 -19 51 08.52378	26.7	4327.9	1231.3	-20.24	9.031	18.335	0	-19.9	106.4
Ti450019	2045-05-14 00:57:10.82	16 30 10.94709 -19 49 05.79669	12.5	713.2	174.2	196.46	12.745	16.422	15.365	1.7	164.0
Pt	6052817012764292096	16 30 10.93277 -19 49 06.48068	8.5	4669.3	1139.8	-16.88	9.027	16.238	0	-19.9	129.5
Ti450020	2045-05-16 07:46:49.09	16 29 39.52301 -19 47 05.21989	39.9	790.5	89.3	192.54	14.838	18.233	17.294	256.9	166.3
P	6052824155291490944	16 29 39.51085 -19 47 05.99152	25.8	5171.8	583.8	-14.09	9.021	17.853	0	-19.9	159.5
Ti450021	2045-05-16 11:53:50.19	16 29 37.29491 -19 47 00.04319	10.2	823.6	85.0	11.95	12.900	15.794	14.901	195.0	166.5
Pt	6052823781632780416	16 29 37.30699 -19 46 59.23749	6.8	5387.8	555.7	-14.02	9.020	15.409	0	-19.9	161.7
Ti450022	2045-05-22 06:17:26.76	16 28 04.14624 -19 45 27.83520	14.6	1354.3	155.3	182.88	13.580	16.628	15.713	273.0	172.3
P	6244957185113927936	16 28 04.14142 -19 45 29.18775	12.3	8831.1	1013.4	-23.13	8.991	16.786	0	-19.9	114.1
Ti450023	2045-05-25 01:58:08.43	16 26 58.44324 -19 44 00.16761	21.0	331.6	86.1	8.33	13.853	17.193	16.235	334.8	175.1
Pg	6244972131599089152	16 26 58.44665 -19 43 59.83951	14.4	2160.5	561.3	-25.62	8.983	17.462	0	-19.8	74.5
Ti450024	2045-05-28 10:26:11.21	16 25 45.13864 -19 40 27.67772	28.2	200.7	191.8	14.59	13.686	17.794	16.688	204.2	177.8
Pgt	6245016902338137344	16 25 45.14222 -19 40 27.48347	20.2	1308.3	1250.5	-20.97	8.987	17.845	0	-19.8	29.5
Ti450025	2045-06-16 17:52:38.85	16 20 01.84130 -19 27 19.70034	30.1	1033.0	100.6	12.81	14.863	17.745	16.913	72.1	161.0
Pt	6245176464667433088	16 20 01.85749 -19 27 18.69305	19.8	6774.9	659.1	-13.60	9.043	17.326	0	-19.6	138.5
Ti450026	2045-06-21 03:29:06.41	16 19 05.00987 -19 26 11.49330	52.9	86.5	178.9	179.77	14.758	18.843	17.750	283.4	156.6
Pgt	6245179419602951680	16 19 05.00989 -19 26 11.57977	41.0	568.4	1175.8	-16.82	9.063	18.655	0	-19.5	74.9
Ti450027	2045-06-21 16:54:10.31	16 18 55.96789 -19 26 12.92300	22.6	836.8	180.6	359.84	14.233	17.457	16.543	81.5	156.1
Pt	6245179286461401472	16 18 55.96772 -19 26 12.08617	16.9	5502.1	1187.4	-18.00	9.065	17.342	0	-19.5	67.2
Ti450028	2045-06-22 07:31:39.72	16 18 45.42241 -19 26 13.10253	19.4	1155.9	173.5	0.33	14.306	17.179	16.325	221.5	155.5
P	6245929840587491072	16 18 45.42288 -19 26 11.94668	14.8	7601.6	1141.5	-19.25	9.068	17.138	0	-19.5	58.8
Ti450029	2045-06-27 22:28:36.53	16 16 54.89302 -19 23 30.74634	41.1	530.0	164.5	192.36	13.879	18.336	17.128	351.3	149.7
Pt	6245567615926832256	16 16 54.88500 -19 23 31.26401	28.8	3501.0	1087.5	-19.37	9.109	18.302	0	-19.5	16.1
Ti450030	2045-06-28 09:47:56.34	16 16 46.85150 -19 23 05.45694	26.1	172.8	177.4	13.39	14.361	17.613	16.676	180.9	149.2
Pg	6245567753365788416	16 16 46.85432 -19 23 05.28886	18.8	1142.1	1173.4	-18.40	9.114	17.522	0	-19.5	21.6
Ti450031	2045-07-05 19:48:06.77	16 15 27.85644 -19 19 09.98410	43.6	1299.5	148.0	177.27	14.852	18.380	17.587	23.3	141.8
P	6245618777578939136	16 15 27.86082 -19 19 11.28216	28.6	8662.2	986.1	-10.47	9.190	17.677	0	-19.4	109.3
Ti450032	2045-07-11 22:17:21.75	16 14 02.89300 -19 19 14.57494	18.3	857.3	87.4	6.74	14.129	16.984	16.165	339.6	135.7
Pt	6245609985782179712	16 14 02.90011 -19 19 13.72352	12.9	5748.7	586.8	-17.27	9.245	16.825	0	-19.4	168.3
Ti450033	2045-07-14 04:18:06.44	16 13 31.34087 -19 17 54.94122	17.0	395.9	171.0	13.67	14.689	16.913	16.224	247.0	133.4
Pt	6245792882668739840	16 13 31.34748 -19 17 54.55652	12.6	2663.5	1150.9	-13.58	9.276	16.493	0	-19.4	136.8
Ti450034	2045-07-27 17:41:24.59	16 11 59.30418 -19 17 21.04205	45.7	1298.1	82.1	3.54	14.814	18.384	17.418	32.5	120.1
P	6245713954053778560	16 11 59.30984 -19 17 19.74640	39.2	8898.3	563.2	-10.99	9.451	17.733	0	-19.4	47.1
Ti450035	2045-07-28 22:56:20.11	16 11 48.28159 -19 17 01.45563	66.4	1088.6	128.5	128.5	14.950	18.865	17.761	312.5	118.9
P	6245716565393897600	16 11 48.26915 -19 17 02.52988	56.3	7477.0	883.4	-9.33	9.470	18.037	0	-19.4	61.5
Ti450036	2045-09-09 03:06:51.98	16 14 56.85063 -19 33 14.64091	20.1	1014.1	161.4	202.64	14.223	16.900	16.112	209.1	79.1
P	6245588128691943040	16 14 56.82301 -19 33 15.57684	13.7	7467.8	1188.7	16.10	10.154	16.664	0	-19.7	106.3
Ti450037	2045-09-18 03:49:20.66	16 16 39.77592 -19 39 45.58299	32.7	372.2	158.7	6.44	14.696	17.459	16.633	190.0	70.8
Pt	6245524979789735936	16 16 39.77887 -19 39 45.21318	24.6	2780.3	1185.1	21.14	10.301	17.519	0	-19.8	21.2
Ti450038	2045-09-18 13:48:30.23	16 16 47.08769 -19 39 58.11826	5.5	974.1	149.4	6.76	11.439	14.067	13.285	39.8	70.4

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	6245524739271566592	16 16 47.09580 -19 39 57.15093	4.2	7282.5	1116.8	22.10	10.308	14.176	0	-19.8	26.1
Ti450039	2045-09-21 08:53:03.52	16 17 42.56386 -19 41 56.00776	33.4	911.0	70.2	190.98	14.915	17.704	16.886	111.2	67.9
P	6245544908437800832	16 17 42.55158 -19 41 56.90209	24.6	6841.9	526.9	26.27	10.355	18.000	0	-19.8	58.8
Ti450040	2045-09-23 18:55:35.99	16 18 32.55903 -19 44 45.43662	19.4	150.1	136.8	15.92	14.166	16.677	15.895	318.3	65.7
Pgt	6244790265504581248	16 18 32.56195 -19 44 45.29223	16.1	1131.3	1030.4	25.27	10.389	16.931	0	-19.9	87.0
Ti450041	2045-09-29 21:44:58.23	16 20 11.11709 -19 52 01.58863	67.2	992.4	83.3	12.21	14.530	18.586	17.480	270.4	60.1
P	6244732158890260224	16 20 11.13197 -19 52 00.61865	46.5	7534.5	633.2	19.04	10.468	18.533	0	-20.0	160.9
Ti450042	2045-10-01 05:24:29.45	16 20 31.95960 -19 52 54.53355	50.8	435.4	129.9	8.70	14.738	18.437	17.421	154.3	58.9
Pt	6244728963434578048	16 20 31.96427 -19 52 54.10314	34.5	3312.3	988.6	21.02	10.489	18.491	0	-20.0	173.4
Ti450043	2045-10-07 18:38:23.45	16 22 57.87076 -19 57 38.07450	6.1	758.3	72.7	190.83	9.871	14.277	13.162	310.0	53.0
P	6244902759287055872	16 22 57.86066 -19 57 38.81932	4.8	5824.8	558.1	32.95	10.591	14.819	0	-20.1	89.7
Ti450044	2045-10-09 01:14:44.96	16 23 30.53435 -19 59 14.59489	5.7	921.9	110.9	192.90	10.588	14.088	13.085	209.8	51.9
P	6244891592371980032	16 23 30.51974 -19 59 15.49352	4.1	7091.5	852.7	32.47	10.606	14.615	0	-20.1	71.0
Ti450045	2045-10-14 00:11:31.23	16 25 19.46604 -20 06 14.62539	15.5	430.9	89.0	14.82	13.528	16.313	15.448	221.1	47.4
P	6244860114554699008	16 25 19.47386 -20 06 14.20881	12.1	3330.4	688.6	24.89	10.656	16.551	0	-20.2	6.5
Ti460001	2046-01-24 21:23:07.83	17 13 08.58314 -21 32 20.57045	5.4	1136.6	142.6	0.81	10.251	13.847	12.845	173.8	45.3
P	4115803220616572544	17 13 08.58429 -21 32 19.43394	3.5	8817.6	1105.5	33.51	10.696	14.407	0	-21.6	101.9
Ti460002	2046-01-24 22:00:23.43	17 13 09.27714 -21 32 19.32191	20.5	251.3	141.9	180.83	13.718	16.965	16.009	164.5	45.3
Pg	4115803220616570496	17 13 09.27688 -21 32 19.57320	13.6	1949.6	1100.5	33.55	10.696	17.526	0	-21.6	101.5
Ti460003	2046-01-26 01:51:02.45	17 13 41.00186 -21 32 31.56915	27.5	688.4	105.5	2.15	14.742	17.552	16.708	105.8	46.4
P	4115801085980217728	17 13 41.00371 -21 32 30.88125	18.4	5334.3	817.3	34.83	10.684	18.154	0	-21.6	84.5
Ti460004	2046-01-26 06:29:45.82	17 13 46.39832 -21 32 33.87188	57.6	1.4	98.9	3.04	14.649	18.853	17.924	35.9	46.6
Pgt	4115800982906443136	17 13 46.39832 -21 32 33.87045	39.7	11.1	765.4	34.96	10.682	19.459	0	-21.6	81.7
Ti460005	2046-01-27 09:32:06.18	17 14 18.04723 -21 32 57.73554	51.6	751.1	70.7	184.01	14.176	18.416	17.438	349.4	47.6
P	4115753463388290048	17 14 18.04347 -21 32 58.48482	36.0	5812.3	547.0	35.22	10.669	19.030	0	-21.6	65.6
Ti460006	2046-01-29 04:29:13.65	17 15 07.43078 -21 34 02.61073	26.8	356.5	108.2	186.68	7.162	14.824	13.164	63.5	49.2
P	4115756869327116416	17 15 07.42781 -21 34 02.96482	17.8	2752.6	835.1	33.52	10.645	15.385	0	-21.6	41.2
Ti460007	2046-01-29 08:01:29.52	17 15 11.34348 -21 34 10.19743	22.9	726.7	113.2	6.89	12.666	17.027	15.876	10.3	49.4
P	4115756800607631360	17 15 11.34972 -21 34 09.47601	14.7	5609.4	873.4	33.26	10.643	17.579	0	-21.6	39.2
Ti460008	2046-01-29 09:05:26.73	17 15 12.51768 -21 34 12.33131	23.6	871.3	114.7	6.95	12.620	17.088	15.919	354.3	49.4
P	4115756800607629440	17 15 12.52524 -21 34 11.46637	14.9	6725.7	884.8	33.18	10.643	17.637	0	-21.6	38.6
Ti460009	2046-01-29 14:08:46.23	17 15 18.05803 -21 34 21.28056	30.4	207.7	121.5	7.23	13.279	17.355	16.254	278.3	49.6
Pgt	4115756079053112960	17 15 18.05991 -21 34 21.07455	18.8	1602.4	937.3	32.79	10.640	17.892	0	-21.6	35.8
Ti460010	2046-01-30 21:01:34.86	17 15 50.16865 -21 35 24.14571	39.0	302.8	150.9	8.62	14.225	17.996	16.920	174.0	50.8
Pgt	4115744323695682048	17 15 50.17190 -21 35 23.84634	25.1	2332.1	1161.7	29.80	10.620	18.429	0	-21.6	19.4
Ti460011*	2046-02-01 14:07:39.65	17 16 27.69421 -21 36 45.41214	47.4	472.2	141.2	188.78	11.061	14.975	13.834	275.9	52.4
P	4115763221551733760	17 16 27.68903 -21 36 45.87880	30.5	3627.6	1085.2	25.30	10.592	15.231	0	-21.7	6.5
Ti460012	2046-02-01 22:08:29.52	17 16 34.30966 -21 37 00.69966	15.6	769.8	132.9	8.49	12.906	16.139	15.185	155.4	52.7
Pt	4115763255911463808	17 16 34.31781 -21 36 59.93832	10.5	5910.7	1021.0	24.50	10.587	16.359	0	-21.7	9.2
Ti460013	2046-02-02 12:42:27.87	17 16 45.87264 -21 37 23.40138	16.3	502.0	114.2	7.65	14.731	16.636	15.991	296.4	53.2
Pt	4115013870019825024	17 16 45.87743 -21 37 22.90386	11.8	3851.1	876.1	23.21	10.578	16.798	0	-21.7	15.8
Ti460014	2046-02-04 04:40:06.41	17 17 15.31752 -21 38 04.59457	32.4	590.0	70.3	183.76	14.595	17.714	16.792	55.4	54.8
P	4115013079745798656	17 17 15.31475 -21 38 05.18332	21.8	4516.0	538.3	21.18	10.553	17.776	0	-21.7	35.5
Ti460015	2046-02-04 14:11:53.46	17 17 22.09126 -21 38 09.63618	52.8	864.8	72.4	182.69	14.989	18.515	17.610	272.1	55.2
P	4115013114105532288	17 17 22.08835 -21 38 10.50004	35.2	6615.8	554.1	21.06	10.548	18.571	0	-21.7	40.2
Ti460016	2046-02-04 22:50:24.48	17 17 28.22499 -21 38 14.02395	16.5	221.2	79.7	1.75	13.265	16.619	15.658	142.2	55.5
Pgt	4115010197873839360	17 17 28.22547 -21 38 13.80290	11.1	1691.1	609.8	21.08	10.543	16.676	0	-21.7	44.5
Ti460017	2046-02-05 00:47:28.61	17 17 29.61402 -21 38 14.19234	33.3	164.8	81.9	181.54	14.582	17.813	16.891	112.8	55.6
Pgt	4115010129156706688	17 17 29.61371 -21 38 14.35711	22.7	1260.3	626.5	21.09	10.542	17.871	0	-21.7	45.5
Ti460018	2046-02-06 11:10:38.09	17 17 54.64212 -21 38 14.45738	14.9	266.3	130.5	358.72	12.799	16.282	15.292	315.7	57.0

Table 3 continued on next page

Table 3 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4115015450567734784	17 17 54.64169 -21 38 14.19119	10.0	2032.3	996.4	22.22	10.524	16.396	0	-21.7	62.4
Ti460019	2046-02-06 18:57:21.03	17 18 00.54033 -21 38 12.32920	26.0	258.0	140.3	358.35	14.208	17.273	16.306	198.8	57.3
Pg	4115015278769042816	17 18 00.53979 -21 38 12.07128	16.3	1968.7	1070.9	22.64	10.520	17.408	0	-21.7	66.2
Ti460020	2046-02-06 20:31:28.83	17 18 01.74523 -21 38 12.52425	21.1	947.7	142.1	358.28	14.107	16.619	15.729	175.2	57.3
P	4115015214396099328	17 18 01.74320 -21 38 11.57693	12.9	7230.8	1084.7	22.73	10.520	16.757	0	-21.7	67.0
Ti460021	2046-02-07 00:33:47.42	17 18 04.86526 -21 38 10.94587	8.4	731.5	146.5	358.14	13.235	17.331	15.889	114.4	57.5
Pt	4115015317475310720	17 18 04.86355 -21 38 10.21478	5.4	5579.7	1118.1	22.96	10.518	17.481	1	-21.7	68.9
Ti460022	2046-02-07 07:11:48.03	17 18 10.06512 -21 38 08.80297	24.2	1066.8	152.9	357.96	13.471	16.985	15.972	14.7	57.7
P	4115003600804519808	17 18 10.06240 -21 38 07.73688	14.5	8134.9	1166.0	23.37	10.514	17.154	0	-21.7	72.2
Ti460023	2046-02-07 08:10:26.37	17 18 10.83537 -21 38 06.97813	11.7	372.7	153.7	177.94	13.190	15.568	14.792	360.0	57.8
Pt	4115003596460165504	17 18 10.83633 -21 38 07.35054	7.3	2841.6	1172.3	23.44	10.514	15.740	0	-21.7	72.6
Ti460024	2046-02-08 00:01:25.23	17 18 23.69017 -21 38 01.38031	87.8	764.9	163.1	357.82	14.987	18.963	17.838	121.6	58.4
P	4115004867768324864	17 18 23.68808 -21 38 00.61595	53.0	5828.6	1243.2	24.49	10.506	19.183	0	-21.7	80.4
Ti460025	2046-02-08 02:50:58.16	17 18 26.04001 -21 37 59.18706	35.9	184.4	164.0	177.84	14.749	17.582	16.730	79.1	58.5
Pgt	4115004867768327424	17 18 26.04051 -21 37 59.37130	22.0	1404.8	1249.5	24.68	10.505	17.811	0	-21.7	81.8
Ti460026	2046-02-08 05:22:29.70	17 18 28.15937 -21 37 58.47444	27.7	213.4	164.5	357.86	13.822	17.138	16.162	41.2	58.6
Pgt	4115004867768328064	17 18 28.15880 -21 37 58.26121	17.4	1625.6	1253.4	24.85	10.504	17.374	0	-21.7	83.0
Ti460027	2046-02-08 21:47:53.34	17 18 42.30337 -21 37 52.49174	20.6	1084.5	162.9	358.21	13.837	16.700	15.754	154.2	59.3
P	4115004287999467264	17 18 42.30094 -21 37 51.40777	12.9	8255.6	1239.9	25.97	10.496	16.983	0	-21.7	91.0
Ti460028	2046-02-09 14:06:08.44	17 18 56.94973 -21 37 46.57435	37.6	501.4	152.8	358.83	14.270	17.825	16.815	269.0	59.9
Pt	4115095165162009088	17 18 56.94900 -21 37 46.07310	24.0	3813.6	1161.9	26.99	10.488	18.151	0	-21.7	98.9
Ti460029	2046-02-09 21:25:27.98	17 19 03.70909 -21 37 44.14187	26.8	304.1	145.8	179.19	14.245	17.358	16.378	158.9	60.2
Pg	4115094993363317504	17 19 03.70940 -21 37 44.44598	17.6	2312.7	1107.8	27.40	10.484	17.699	0	-21.7	102.5
Ti460030	2046-02-10 10:18:31.86	17 19 15.84562 -21 37 42.35924	25.9	740.0	130.3	179.91	13.013	17.352	16.203	325.2	60.7
P	4115094684125672064	17 19 15.84570 -21 37 43.09925	16.7	5623.4	989.3	28.04	10.478	17.718	0	-21.7	108.8
Ti460031	2046-02-10 23:39:09.04	17 19 28.68193 -21 37 44.03352	26.3	90.3	111.3	180.75	13.023	17.329	16.207	124.5	61.2
Pg	4115094477964927744	17 19 28.68184 -21 37 44.12384	17.6	685.9	844.9	28.54	10.470	17.715	0	-21.7	115.3
Ti460032	2046-02-11 14:18:51.01	17 19 43.00027 -21 37 49.24037	35.6	716.2	90.2	1.78	13.708	17.849	16.719	264.1	61.7
Pt	4115048813872630144	17 19 43.00187 -21 37 48.52454	22.6	5434.3	684.2	28.86	10.462	18.248	0	-21.7	122.5
Ti460033	2046-02-11 15:16:07.08	17 19 43.93761 -21 37 49.56885	43.5	630.8	89.0	1.85	14.360	18.392	17.305	249.7	61.8
Pt	4115048813872629120	17 19 43.93907 -21 37 48.93838	28.5	4786.2	674.5	28.87	10.462	18.791	0	-21.7	123.0
Ti460034	2046-02-12 10:00:24.00	17 20 02.36598 -21 38 00.60982	37.8	250.6	72.0	3.26	14.430	17.923	16.983	328.0	62.5
Pg	4115048435915503360	17 20 02.36700 -21 38 00.35958	24.2	1899.7	545.5	28.87	10.451	18.321	0	-21.7	132.3
Ti460035	2046-02-13 14:09:53.95	17 20 29.65237 -21 38 28.85842	4.6	404.8	89.8	185.45	8.565	13.315	12.617	264.5	63.6
P	4115050944176385536	17 20 29.64961 -21 38 29.26137	2.9	3062.7	678.9	27.93	10.432	13.677	0	-21.7	146.5
Ti460036	2046-02-14 02:27:56.05	17 20 41.17581 -21 38 44.87399	66.0	1041.9	107.3	186.39	14.991	18.883	17.822	79.6	64.0
P	4115050256980313984	17 20 41.16749 -21 38 45.90943	51.5	7877.1	810.3	27.17	10.424	19.216	0	-21.7	152.8
Ti460037	2046-02-14 12:54:02.70	17 20 50.65817 -21 39 00.80508	27.5	807.8	122.2	187.15	13.857	17.244	16.278	282.7	64.5
P	4115050398747532160	17 20 50.65095 -21 39 01.60658	20.2	6102.7	922.4	26.37	10.417	17.544	0	-21.7	158.2
Ti460038	2046-02-14 21:17:06.14	17 20 58.03362 -21 39 16.13741	14.1	1080.3	133.1	7.73	12.537	15.977	14.979	156.6	64.8
P	4115038682076701824	17 20 58.04404 -21 39 15.06692	9.2	8156.7	1004.1	25.63	10.411	16.246	0	-21.7	162.5
Ti460039	2046-02-15 12:15:59.16	17 21 10.67768 -21 39 40.67730	8.6	250.5	148.3	8.64	10.446	15.038	13.828	291.3	65.4
Pgt	4115039163112958208	17 21 10.68038 -21 39 40.42961	5.8	1889.6	1118.3	24.14	10.399	15.242	0	-21.7	169.8
Ti460040	2046-02-15 18:33:26.28	17 21 15.75257 -21 39 50.97601	27.7	397.0	152.7	188.96	12.850	17.371	16.188	196.7	65.6
Pt	4115039128753768320	17 21 15.74814 -21 39 51.36820	19.0	2993.3	1150.9	23.46	10.395	17.544	0	-21.7	172.5

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

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

Table 4. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 4 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _p (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _p (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
Ti460041	2046-02-15 23:02:27.03	17 21 19.26710 -21 39 59.40394	51.6	209.1	155.0	9.16	13.980	18.476	17.553	129.3	65.8
Pgt	4115038918266630016	17 21 19.26949 -21 39 59.19751	36.9	1575.9	1168.0	22.96	10.391	18.626	0	-21.7	173.8
Ti460042	2046-02-16 16:37:21.15	17 21 32.32306 -21 40 30.21246	19.4	704.2	157.1	9.67	12.589	16.873	15.734	224.9	66.5
P	4115035963333178496	17 21 32.33155 -21 40 29.51824	13.9	5300.7	1182.2	20.96	10.378	16.924	0	-21.7	170.7
Ti460043	2046-02-19 03:22:21.10	17 22 08.00816 -21 41 47.94003	50.2	999.3	95.4	6.36	14.923	18.471	17.425	61.4	68.8
P	4114870972209950080	17 22 08.01610 -21 41 46.94687	33.6	7490.0	715.3	15.33	10.334	18.183	0	-21.7	137.2
Ti460044	2046-02-20 08:35:54.98	17 22 22.73864 -21 42 01.63112	50.4	310.8	71.9	181.78	14.569	18.224	17.260	341.8	70.0
Pgt	4114871139662293760	17 22 22.73795 -21 42 01.94181	34.6	2325.3	537.9	14.20	10.315	17.853	0	-21.7	119.0
Ti460045	2046-02-20 09:26:24.33	17 22 23.14907 -21 42 02.58150	23.7	468.7	72.0	1.64	13.147	16.966	15.932	329.2	70.0
P	4114871139662293632	17 22 23.15004 -21 42 02.11303	15.7	3505.8	539.1	14.19	10.314	16.594	0	-21.7	118.5
Ti460046	2046-02-21 03:50:03.57	17 22 32.14116 -21 42 03.16460	13.7	745.8	87.5	358.71	12.817	16.148	15.175	52.5	70.7
Pt	4114870353734590592	17 22 32.13995 -21 42 02.41904	9.5	5572.2	654.0	14.20	10.302	15.777	0	-21.7	106.9
Ti460047	2046-02-21 20:15:40.47	17 22 40.30216 -21 41 58.01219	15.3	368.5	111.5	356.60	13.055	16.458	15.472	165.5	71.4
Pt	4114870216295614592	17 22 40.30059 -21 41 57.64438	10.4	2750.4	833.0	14.62	10.292	16.118	0	-21.7	96.5
Ti460048	2046-02-22 03:24:02.54	17 22 43.93249 -21 41 53.45990	16.1	851.4	122.3	175.89	12.850	16.622	15.593	58.1	71.7
P	4114871693764354432	17 22 43.93686 -21 41 54.30914	11.1	6353.1	913.2	14.90	10.288	16.302	0	-21.7	92.0
Ti460049	2046-02-22 22:43:01.16	17 22 54.16881 -21 41 41.34364	19.7	987.8	147.9	174.69	13.186	16.785	15.740	127.6	72.4
P	4114868803200098816	17 22 54.17537 -21 41 42.32715	13.5	7362.4	1102.9	15.87	10.277	16.534	0	-21.7	79.9
Ti460050	2046-02-23 09:47:50.98	17 23 00.36519 -21 41 33.41978	23.1	648.5	158.7	174.43	14.067	17.277	16.262	321.0	72.9
P	4114868631402388864	17 23 00.36971 -21 41 34.06524	16.2	4830.9	1182.1	16.54	10.271	17.071	0	-21.7	73.0
Ti460051	2046-02-24 00:09:14.66	17 23 08.80164 -21 41 23.56204	56.1	942.1	167.1	354.51	14.990	18.827	17.713	105.1	73.5
P	4114868219084559872	17 23 08.79518 -21 41 22.62423	38.5	7012.7	1243.6	17.47	10.263	18.680	0	-21.7	64.3
Ti460052	2046-02-24 16:41:48.27	17 23 19.09932 -21 41 10.24888	8.5	807.8	168.3	355.07	10.918	15.246	14.099	216.3	74.1
P	4114868292150612224	17 23 19.09434 -21 41 09.44403	6.2	6007.7	1251.4	18.55	10.254	15.165	0	-21.7	54.4
Ti460053	2046-02-24 17:21:32.74	17 23 19.52721 -21 41 10.10906	23.2	1179.8	168.2	355.10	13.640	17.256	16.207	206.4	74.1
P	4114868287804050304	17 23 19.51997 -21 41 08.93354	17.0	8773.9	1250.2	18.59	10.253	17.177	0	-21.7	54.0
Ti460054	2046-02-25 03:13:30.17	17 23 25.97679 -21 41 01.33520	30.9	282.4	164.3	175.63	13.670	17.602	16.462	58.0	74.5
Pgt	4114873957160886272	17 23 25.97834 -21 41 01.61679	21.0	2099.0	1220.6	19.21	10.248	17.558	0	-21.7	48.2
Ti460055	2046-02-25 04:03:25.25	17 23 26.53304 -21 41 01.04837	12.7	19.5	163.8	355.66	11.568	16.133	14.938	45.5	74.6
Pgt	4114873927148098944	17 23 26.53293 -21 41 01.02894	8.9	144.9	1217.0	19.26	10.247	16.093	0	-21.7	47.7
Ti460056	2046-02-25 07:59:23.09	17 23 29.17508 -21 40 58.34839	19.9	24.9	161.3	355.93	12.619	16.898	15.759	346.3	74.7
Pgt	4114873922801151744	17 23 29.17495 -21 40 58.32355	13.3	185.0	1198.0	19.50	10.245	16.870	0	-21.7	45.4
Ti460057*	2046-02-26 09:47:51.97	17 23 47.27581 -21 40 44.38267	75.4	145.7	134.0	177.88	14.470	18.366	17.014	318.2	75.7
Pgt	4114862450995033216	17 23 47.27620 -21 40 44.52829	50.4	1081.3	993.3	20.81	10.230	18.409	0	-21.7	30.8
Ti460058 ^d	2046-02-26 12:45:45.09	17 23 49.43117 -21 40 44.30484	75.1	818.0	129.8	358.14	12.885	17.525		273.6	75.8
Pt	4114862382275549184	17 23 49.42927 -21 40 43.48732	48.9	6068.0	962.7	20.93	10.229	17.574	0	-21.7	29.1
Ti460059 ^d	2046-02-26 12:46:47.48	17 23 49.44197 -21 40 43.51657	23.0	35.0	129.8	358.16	12.885	17.166	15.522	273.4	75.8
Pg	4114862377929068672	17 23 49.44189 -21 40 43.48162	15.2	259.4	962.5	20.93	10.229	17.216	0	-21.7	29.1
Ti460060	2046-02-28 05:46:08.02	17 24 20.04307 -21 40 44.56381	42.7	499.8	75.7	2.10	13.912	18.078	16.952	17.0	77.4
Pt	4114860041466850560	17 24 20.04438 -21 40 44.06440	28.8	3698.1	559.6	21.58	10.203	18.160	0	-21.7	8.3
Ti460061*	2046-02-28 11:55:33.78	17 24 24.66680 -21 40 47.85998	45.8	1073.4	73.1	2.74	14.320	17.456	16.471	284.4	77.7
P	4114860423771143552	17 24 24.67048 -21 40 46.78780	31.4	7939.8	540.3	21.49	10.199	17.534	0	-21.7	6.3
Ti460062	2046-02-28 17:33:12.16	17 24 28.88147 -21 40 48.81435	39.7	1083.5	73.3	183.33	14.700	17.977	16.956	199.8	77.9
P	4114860247625275392	17 24 28.87695 -21 40 49.89603	25.7	8011.6	541.7	21.36	10.195	18.049	0	-21.7	5.6
Ti460063	2046-02-28 23:26:10.44	17 24 33.23699 -21 40 54.80160	40.8	1035.2	76.2	3.96	14.225	17.968	16.933	111.3	78.1
P	4114860178905790208	17 24 33.24211 -21 40 53.76887	27.2	7651.3	562.5	21.18	10.191	18.030	0	-21.7	6.4
Ti460064	2046-03-02 07:24:45.91	17 24 55.93981 -21 41 24.69729	76.9	305.1	117.5	187.37	14.874	18.867	17.786	350.4	79.4

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G_*	DUP	ϕ (deg)	M-G-T
Pgt	4120817126747108352	17 24 55.93700 -21 41 24.99987	47.0	2249.9	866.0	19.35	10.167	18.831	0	-21.7	20.3
Ti460065	2046-03-02 10:39:59.58	17 24 58.10516 -21 41 29.44594	16.2	443.2	122.3	7.71	12.091	16.483	15.378	301.5	79.5
Pt	4120817126745481600	17 24 58.10943 -21 41 29.00670	10.7	3267.7	900.8	19.09	10.165	16.432	0	-21.7	21.9
Ti460066*	2046-03-02 10:57:03.43	17 24 58.29687 -21 41 29.46156	38.4	99.6	122.7	7.74	12.297	16.943	15.792	297.2	79.5
Pg	4120817234123591680	17 24 58.29784 -21 41 29.36287	25.7	734.2	903.8	19.06	10.165	16.891	0	-21.7	22.1
Ti460067	2046-03-02 12:39:53.09	17 24 59.43378 -21 41 30.94788	33.1	586.2	125.1	187.92	13.803	17.616	16.517	271.5	79.6
P	4120817165404078976	17 24 59.42799 -21 41 31.52848	21.3	4320.9	921.6	18.92	10.163	17.556	0	-21.7	22.9
Ti460068	2046-03-02 23:27:49.49	17 25 06.32794 -21 41 46.40595	54.5	554.8	139.3	9.02	14.718	18.598	17.534	109.1	80.0
Pt	4120816989306525056	17 25 06.33418 -21 41 45.85797	34.7	4086.4	1025.1	17.94	10.155	18.480	0	-21.7	28.2
Ti460069	2046-03-03 03:22:09.49	17 25 08.73290 -21 41 51.42905	12.0	147.6	143.7	9.40	12.210	15.926	14.858	50.3	80.2
Pgt	4120816920587825536	17 25 08.73462 -21 41 51.28346	7.7	1086.5	1057.6	17.55	10.152	15.784	0	-21.7	30.2
Ti460070	2046-03-04 03:21:10.41	17 25 22.23485 -21 42 24.87988	31.7	1141.4	160.6	191.49	14.274	17.767	16.745	49.7	81.1
P	4120816306409865216	17 25 22.21855 -21 42 25.99845	20.8	8388.1	1179.8	14.95	10.133	17.451	0	-21.7	42.0
Ti460071	2046-03-04 14:03:20.32	17 25 27.50661 -21 42 40.77806	32.5	651.7	161.4	192.16	13.609	17.608	16.519	248.7	81.5
P	4120816336472886528	17 25 27.49676 -21 42 41.41516	20.5	4785.4	1185.2	13.71	10.124	17.197	0	-21.8	47.2
Ti460072	2046-03-05 08:34:46.23	17 25 35.55799 -21 43 05.25880	53.3	1029.4	152.7	192.68	14.309	18.563	17.440	330.1	82.3
P	4120813347175640192	17 25 35.54178 -21 43 06.26308	33.4	7547.0	1119.6	11.58	10.109	17.969	0	-21.8	56.3
Ti460073	2046-03-05 15:45:10.09	17 25 38.28577 -21 43 15.82933	43.8	968.9	146.1	12.56	14.433	18.450	17.356	222.2	82.6
P	4120814824644386304	17 25 38.30089 -21 43 14.88366	29.9	7099.3	1070.8	10.80	10.103	17.781	0	-21.8	59.8
Ti460074	2046-03-06 22:47:42.34	17 25 48.27847 -21 43 42.64092	53.5	9.6	104.0	188.87	14.959	18.593	17.603	115.4	83.8
Pgt	4120813828216032896	17 25 48.27837 -21 43 42.65038	35.4	760.1	76.0	7.97	10.079	17.594	0	-21.8	75.0
Ti460075	2046-03-07 20:20:13.32	17 25 53.81879 -21 43 51.35656	13.6	521.9	77.3	2.61	11.113	16.166	14.869	151.4	84.7
Pt	4120813866911285760	17 25 53.82049 -21 43 50.83520	9.1	3809.0	564.1	6.81	10.063	14.997	0	-21.8	85.6
Ti460076	2046-03-08 17:37:03.44	17 25 58.76717 -21 43 50.24233	32.7	870.6	78.5	354.89	14.019	17.860	16.802	191.3	85.6
P	4120813695112565632	17 25 58.76161 -21 43 49.37520	23.7	6344.5	572.4	6.46	10.048	16.633	0	-21.8	96.0
Ti460077	2046-03-10 10:43:58.10	17 26 08.62927 -21 43 23.05406	60.4	283.7	136.8	165.92	14.673	18.835	17.776	292.9	87.2
Pg	4120814038709903104	17 26 08.63422 -21 43 23.32927	42.7	2062.3	994.5	7.66	10.022	17.794	0	-21.8	116.3
Ti460078	2046-03-10 11:26:45.42	17 26 08.81585 -21 43 22.27233	50.1	408.4	137.8	165.87	14.575	18.453	17.452	282.2	87.3
P	4120814034374501504	17 26 08.82300 -21 43 22.66833	34.7	2968.0	1001.8	7.70	10.021	17.417	0	-21.8	116.6
Ti460079	2046-03-10 20:55:04.89	17 26 11.42443 -21 43 13.89345	79.1	488.6	150.1	345.50	14.742	18.996	17.729	139.7	87.7
Pt	4120802390714554240	17 26 11.41565 -21 43 13.42038	55.2	3549.4	1090.6	8.21	10.016	18.029	0	-21.8	121.3
Ti460080	2046-03-11 22:26:13.05	17 26 19.32593 -21 42 46.70450	43.6	1049.9	171.0	346.57	13.790	18.322	17.068	115.9	88.7
P	4120808227574631936	17 26 19.30843 -21 42 45.68334	31.6	7614.9	1240.0	9.75	10.001	17.541	0	-21.8	134.1
Ti460081	2046-03-12 08:08:08.89	17 26 22.67857 -21 42 33.89382	53.2	940.6	173.3	167.50	14.847	18.643	17.540	330.1	89.1
P	4120808261938478848	17 26 22.69318 -21 42 34.81208	39.6	6818.2	1256.3	10.36	9.995	17.928	0	-21.7	139.0
Ti460082	2046-03-13 19:48:32.03	17 26 36.99569 -21 41 59.80026	38.3	977.7	154.3	352.11	14.960	17.913	16.975	153.6	90.5
Pt	4120807746538309120	17 26 36.98606 -21 41 58.83187	26.6	7072.3	1115.6	12.39	9.974	17.393	0	-21.7	157.0
Ti460083	2046-03-14 01:51:04.79	17 26 39.67323 -21 41 54.53681	37.7	598.1	147.3	352.99	13.052	17.826	16.611	62.7	90.7
P	4120807746542677888	17 26 39.66799 -21 41 53.94319	28.8	4325.0	1064.2	12.67	9.971	17.330	0	-21.7	160.1
Ti460084	2046-03-16 04:53:57.57	17 27 04.06974 -21 41 36.09605	48.9	186.4	77.7	0.98	14.570	18.413	17.330	15.0	92.8
Pg	4120806131635009152	17 27 04.06996 -21 41 35.90963	35.1	1343.8	559.8	13.63	9.938	17.996	0	-21.7	169.9
Ti460085	2046-03-17 08:42:06.82	17 27 17.31076 -21 41 47.42655	16.2	896.0	88.0	5.73	12.348	16.617	15.529	316.9	93.9
P	4120806307768443136	17 27 17.31718 -21 41 46.53503	11.5	6445.3	632.6	12.80	9.918	16.133	0	-21.7	155.2
Ti460086	2046-03-18 01:17:52.48	17 27 24.61274 -21 41 59.31457	17.3	105.3	112.2	188.80	13.241	16.654	15.642	67.3	94.5
Pgt	4120805517494413696	17 27 24.61159 -21 41 59.41866	12.2	756.8	805.3	11.80	9.906	16.081	0	-21.7	145.7
Ti460087	2046-03-18 03:54:37.71	17 27 25.69276 -21 42 02.24633	8.6	422.3	116.2	9.31	10.504	15.295	14.053	28.0	94.6
Pt	4120805513156086784	17 27 25.69766 -21 42 01.82958	6.0	3033.4	834.1	11.61	9.904	14.705	0	-21.7	144.1
Ti460088	2046-03-18 09:59:16.97	17 27 28.14284 -21 42 08.17390	33.2	390.8	125.4	10.51	13.736	17.844	16.710	296.6	94.9
Pt	4120805513157294208	17 27 28.14795 -21 42 07.78968	23.1	2805.6	899.8	11.13	9.899	17.208	0	-21.7	140.6
Ti460089	2046-03-18 22:33:03.82	17 27 32.82034 -21 42 22.64418	41.9	1133.6	142.6	13.16	14.650	18.145	17.082	107.6	95.4

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G_*	DUP	ϕ (deg)	M-G-T
P	4120805410078076416	17 27 32.83886 -21 42 21.44035	29.3	8130.7	1022.4	10.03	9.889	17.395	0	-21.7	133.1
Ti460090	2046-03-19 15:00:23.33	17 27 38.12300 -21 42 40.88596	20.1	284.8	159.0	197.07	12.884	16.990	15.881	220.2	96.0
Pgt	4117802953060790656	17 27 38.11701 -21 42 41.15822	13.7	2040.0	1138.0	8.37	9.876	16.044	0	-21.7	123.1
Ti460091	2046-03-21 13:50:59.38	17 27 47.11400 -21 43 34.59727	57.3	818.5	151.0	215.13	14.199	18.687	17.558	235.6	97.9
Pt	4117826145884243584	17 27 47.08020 -21 43 35.26669	39.2	5840.3	1076.9	3.26	9.838	16.716	0	-21.8	93.8
Ti460092	2046-03-29 21:23:36.73	17 27 50.85589 -21 41 28.39514	21.0	45.8	155.3	155.06	13.547	16.877	15.860	114.3	106.2
Pgt	4117826493843551232	17 27 50.85727 -21 41 28.43664	14.7	322.3	1092.8	4.92	9.710	15.355	0	-21.7	23.4
Ti460093	2046-03-29 23:18:13.24	17 27 51.16232 -21 41 26.08578	38.5	380.6	153.0	156.04	13.947	18.050	16.878	85.6	106.2
Pt	4117826489485924224	17 27 51.17340 -21 41 26.43357	27.3	2679.7	1076.2	4.99	9.709	16.542	0	-21.7	24.3
Ti460094	2046-03-30 11:22:38.25	17 27 53.30576 -21 41 14.50849	52.7	498.6	136.3	161.82	14.762	18.636	17.539	264.0	106.7
P	4117826523842755840	17 27 53.31692 -21 41 14.98220	35.1	3508.3	958.3	5.36	9.702	17.206	0	-21.7	30.3
Ti460095	2046-03-30 17:27:01.41	17 27 54.47916 -21 41 10.14331	39.7	58.9	127.0	344.48	14.086	18.148	17.052	172.6	107.0
Pgt	4117826317684329088	17 27 54.47803 -21 41 10.08651	26.7	414.6	892.3	5.51	9.698	16.748	0	-21.7	33.4
Ti460096	2046-03-31 23:47:50.79	17 28 00.76298 -21 40 56.60712	24.8	923.7	83.0	356.53	14.270	17.254	16.318	76.2	108.2
P	4117826665642210432	17 28 00.75897 -21 40 55.68507	15.5	6484.9	582.1	5.76	9.679	15.903	0	-21.7	48.4
Ti460097	2046-04-01 05:22:14.80	17 28 01.93453 -21 40 54.93079	40.6	69.3	78.7	178.69	14.669	18.293	17.267	352.4	108.4
Pgt	4117826661284623616	17 28 01.93465 -21 40 55.00007	27.5	486.3	551.6	5.70	9.676	16.930	0	-21.7	51.1
Ti460098	2046-04-01 08:35:43.92	17 28 02.60868 -21 40 54.79337	24.9	96.2	77.3	179.97	14.851	17.461	16.596	303.9	108.6
Pgt	4117826665646787840	17 28 02.60868 -21 40 54.88955	16.9	674.8	541.4	5.65	9.674	16.088	0	-21.7	52.7
Ti460099	2046-04-01 15:29:45.43	17 28 04.02585 -21 40 55.35048	20.4	3.4	77.0	182.75	14.267	17.032	16.131	200.1	108.8
Pgt	4117826665642199552	17 28 04.02583 -21 40 55.35389	13.6	24.0	539.2	5.49	9.669	15.629	0	-21.7	56.1
Ti460100	2046-04-04 20:20:45.43	17 28 12.52211 -21 41 51.29495	54.3	1079.0	167.2	106.13	14.681	18.650	17.321	124.2	112.0
P	4117825737929211776	17 28 12.59648 -21 41 51.59469	36.0	7522.9	1164.1	-2.15	9.613	16.229	0	-21.7	93.8
Ti460101*	2046-04-05 15:10:02.08	17 28 11.45756 -21 42 12.09523	127.6	987.1	169.6	325.17	14.944	18.556	17.349	201.1	112.7
P	4117825737929210112	17 28 11.41711 -21 42 11.28499	78.4	6871.6	1180.0	-3.39	9.599	16.628	0	-21.7	103.1
Ti460102	2046-04-08 02:25:45.01	17 27 58.59602 -21 42 46.60612	22.8	375.4	100.6	179.24	13.471	17.220	16.140	29.7	115.2
Pt	4117825493050545408	17 27 58.59638 -21 42 46.98144	15.1	2601.3	697.5	-8.24	9.555	16.257	0	-21.7	132.8
Ti460103	2046-04-09 07:30:36.19	17 27 48.98647 -21 42 40.20116	28.7	859.1	77.8	6.88	13.650	17.613	16.528	312.3	116.4
Pt	4117826180245314688	17 27 48.99385 -21 42 39.34826	19.1	5941.8	538.6	-9.29	9.536	16.781	0	-21.7	147.7
Ti460104	2046-04-09 16:17:32.41	17 27 45.96049 -21 42 32.85141	7.1	608.5	83.5	188.96	10.131	14.726	13.529	180.1	116.8
Pt	4117826356404595968	17 27 45.95369 -21 42 33.45253	4.7	4206.6	577.6	-9.39	9.531	13.905	0	-21.7	152.2
Ti460105	2046-04-10 20:54:41.01	17 27 36.24818 -21 42 03.73867	40.5	396.9	125.9	195.52	14.131	18.051	16.947	109.6	118.0
Pt	4120805375718342144	17 27 36.24056 -21 42 04.12114	28.8	2739.2	869.4	-9.02	9.515	17.186	0	-21.7	166.7
Ti460106	2046-04-11 05:22:40.94	17 27 33.51841 -21 41 53.82312	25.5	891.2	139.5	17.47	13.230	17.396	16.269	342.3	118.4
Pt	4120805444437568512	17 27 33.53760 -21 41 52.97301	17.3	6147.0	962.7	-8.74	9.510	16.498	0	-21.7	170.7
Ti460107	2046-04-18 11:12:30.37	17 27 08.16215 -21 39 01.01547	9.5	106.9	99.5	345.24	10.888	15.477	14.282	247.6	125.6
Pgt	4120809601964982528	17 27 08.16020 -21 39 00.91207	6.7	730.5	678.6	-2.83	9.419	13.354	0	-21.7	86.6
Ti460108	2046-04-19 18:49:52.36	17 27 03.53328 -21 39 20.33057	45.2	218.0	148.8	163.44	13.417	17.696	16.551	131.9	126.9
Pgt	4120809292728552832	17 27 03.53774 -21 39 20.53949	33.3	1485.8	1013.3	-5.43	9.399	16.281	0	-21.7	67.0
Ti460109	2046-04-20 15:18:46.95	17 26 58.69199 -21 39 39.06471	53.2	403.3	169.4	346.57	14.694	18.737	17.591	183.8	127.7
Pt	4120809258371191424	17 26 58.68527 -21 39 38.67243	42.4	2745.4	1152.8	-7.55	9.386	17.680	0	-21.7	54.4
Ti460110	2046-04-21 03:27:13.38	17 26 54.99061 -21 39 50.17137	37.3	250.6	174.3	348.76	14.704	18.250	17.221	1.2	128.2
Pgt	4120809361448021760	17 26 54.98711 -21 39 49.92559	29.4	1704.3	1185.3	-8.88	9.378	17.369	0	-21.7	46.9
Ti460111	2046-04-22 09:21:17.99	17 26 43.17858 -21 40 13.64802	20.9	481.8	160.6	174.19	13.018	17.130	15.984	271.4	129.5
Pt	4120808644186573568	17 26 43.18208 -21 40 14.12732	16.2	3269.7	1090.2	-12.06	9.358	16.581	0	-21.7	29.0
Ti460112	2046-04-22 23:17:36.20	17 26 36.45523 -21 40 21.78004	28.8	144.1	143.3	356.60	12.907	17.533	16.327	61.7	130.1
Pgt	4120808605531797888	17 26 36.45462 -21 40 21.63619	22.1	977.1	971.8	-13.34	9.349	17.093	0	-21.7	21.0
Ti460113	2046-04-26 07:45:36.02	17 25 49.32012 -21 39 46.70722	41.7	416.6	109.8	188.55	14.902	18.310	17.338	291.2	133.5
Pt	4120815408760000640	17 25 49.31568 -21 39 47.11917	28.7	2811.3	741.6	-15.93	9.305	18.063	0	-21.7	25.0
Ti460114	2046-04-26 10:35:54.30	17 25 47.60376 -21 39 43.91380	65.7	454.3	114.6	8.91	14.952	18.998	17.891	248.5	133.7

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4120815443123981312	17 25 47.60881 -21 39 43.46498	43.2	3065.6	773.6	-15.86	9.304	18.746	0	-21.7	26.5
Ti460115	2046-04-27 15:28:23.29	17 25 30.94523 -21 38 59.78180	6.3	52.2	160.3	12.37	9.818	14.629	13.379	174.2	134.9
Pgt	4120818260633400832	17 25 30.94603 -21 38 59.73085	4.2	351.5	1080.5	-14.67	9.292	14.293	0	-21.7	41.2
Ti460116	2046-04-28 04:14:21.22	17 25 24.13582 -21 38 37.04267	29.6	684.9	174.7	193.69	14.948	17.783	16.873	342.1	135.4
Pt	4120818986512612608	17 25 24.12419 -21 38 37.70809	19.6	4612.9	1176.8	-13.93	9.287	17.390	0	-21.7	47.7
Ti460117	2046-04-28 07:17:27.91	17 25 22.53105 -21 38 33.51090	51.0	1237.9	177.4	13.98	14.958	18.558	17.368	296.2	135.6
P	4120818982171390976	17 25 22.55251 -21 38 32.30970	33.7	8336.6	1194.6	-13.74	9.286	18.150	0	-21.7	49.2
Ti460118	2046-04-29 03:18:44.06	17 25 12.85846 -21 37 56.02444	42.9	499.0	186.7	195.59	14.657	18.276	17.265	355.0	136.4
Pt	4120817813945876352	17 25 12.84884 -21 37 56.50508	29.0	3357.8	1256.0	-12.38	9.278	17.756	0	-21.7	59.2
Ti460119	2046-04-30 00:56:54.41	17 25 03.56798 -21 37 19.48616	30.2	297.5	179.8	16.42	14.623	17.663	16.725	29.6	137.3
Pgt	4120864783702657536	17 25 03.57401 -21 37 19.20076	18.3	2000.4	1208.3	-10.87	9.270	17.001	0	-21.7	69.8
Ti460120	2046-05-01 13:31:45.79	17 24 50.46436 -21 36 26.63203	58.5	971.9	133.8	193.99	14.505	18.756	17.699	199.3	138.9
P	4120865681375867008	17 24 50.44750 -21 36 27.57511	36.2	6525.2	897.4	-8.68	9.257	17.851	0	-21.6	87.8
Ti460121	2046-05-02 22:43:39.25	17 24 40.23576 -21 36 01.94389	56.4	912.3	84.6	6.21	14.179	18.726	17.551	59.9	140.2
Pt	4120865647016395520	17 24 40.24284 -21 36 01.03692	40.9	6116.1	566.6	-7.84	9.243	17.709	0	-21.6	104.3
Ti460122	2046-05-04 15:11:27.26	17 24 27.37962 -21 35 59.67784	39.6	147.3	111.7	355.90	13.805	18.203	17.012	171.2	141.9
Pgt	4120868494554425344	17 24 27.37886 -21 35 59.53096	28.0	985.2	746.5	-9.14	9.225	17.352	0	-21.6	124.6
Ti460123	2046-05-06 05:54:09.25	17 24 11.49947 -21 36 23.84104	8.1	694.4	167.1	353.28	11.921	15.472	14.419	308.9	143.5
Pt	4114864581299244800	17 24 11.49364 -21 36 23.15139	5.4	4635.9	1115.0	-12.49	9.205	14.961	0	-21.6	144.4
Ti460124	2046-05-07 03:50:32.45	17 23 59.97396 -21 36 40.94924	54.9	110.8	178.0	354.33	14.002	18.292	17.098	338.9	144.5
Pgt	4114864409500565248	17 23 59.97317 -21 36 40.83898	37.3	738.8	1187.0	-14.84	9.193	17.968	0	-21.7	155.8
Ti460125	2046-05-07 04:20:28.66	17 23 59.69340 -21 36 42.07508	31.3	845.7	178.1	354.36	13.971	17.948	16.874	331.4	144.5
Pt	4114864405153814656	17 23 59.68745 -21 36 41.23348	21.2	5638.4	1187.1	-14.89	9.193	17.628	0	-21.7	156.1
Ti460126	2046-05-07 15:59:58.99	17 23 52.70378 -21 36 49.11540	19.6	916.5	175.4	175.33	12.982	17.083	15.934	156.0	145.0
P	4114864370807950848	17 23 52.70913 -21 36 50.02884	13.0	6106.5	1169.0	-16.14	9.187	16.850	0	-21.7	162.1
Ti460127	2046-05-08 01:47:47.32	17 23 46.41149 -21 36 57.73541	4.6	1242.6	168.9	356.26	9.854	13.858	12.770	8.6	145.4
Pt	4114876091811624576	17 23 46.40569 -21 36 56.49546	3.2	8274.6	1125.2	-17.14	9.182	13.691	0	-21.7	167.1
Ti460128	2046-05-08 04:25:34.79	17 23 44.64422 -21 36 57.24801	47.6	792.6	166.6	176.53	14.810	18.743	17.590	329.0	145.5
P	4114874614342876416	17 23 44.64766 -21 36 58.03912	32.9	5277.0	1109.2	-17.40	9.180	18.592	0	-21.7	168.4
Ti460129	2046-05-08 05:02:41.82	17 23 44.22878 -21 36 58.06314	39.9	326.3	166.0	176.59	14.665	18.483	17.391	319.7	145.6
Pgt	4114874614342877312	17 23 44.23018 -21 36 58.38888	27.3	2172.7	1105.2	-17.46	9.180	18.335	0	-21.7	168.7
Ti460130	2046-05-08 07:43:33.94	17 23 42.40871 -21 37 01.13010	18.5	1288.9	163.2	356.87	13.651	16.964	15.977	279.4	145.7
P	4114874683061943680	17 23 42.40367 -21 36 59.84314	12.6	8580.1	1086.9	-17.72	9.179	16.832	0	-21.7	170.0
Ti460131	2046-05-08 18:20:28.59	17 23 34.90807 -21 37 03.57546	15.7	939.9	150.1	178.01	13.708	16.863	15.933	119.7	146.1
P	4114874751781433088	17 23 34.91041 -21 37 04.51481	11.0	6253.5	998.9	-18.68	9.173	16.789	0	-21.7	174.1
Ti460132	2046-05-09 02:10:50.82	17 23 29.12665 -21 37 05.67897	39.1	1028.2	138.4	178.88	13.940	18.428	17.259	1.8	146.5
P	4114874781795864704	17 23 29.12810 -21 37 06.70699	26.2	6838.1	920.9	-19.32	9.170	18.390	0	-21.7	174.7
Ti460133	2046-05-09 08:50:12.48	17 23 24.07080 -21 37 06.72961	21.3	901.2	127.6	179.62	12.834	17.357	16.186	261.6	146.7
P	4114875159751913728	17 23 24.07123 -21 37 07.63080	14.5	5991.5	849.0	-19.80	9.167	17.346	0	-21.7	172.7
Ti460134	2046-05-10 05:59:28.88	17 23 07.28244 -21 37 05.04742	29.1	793.1	93.9	2.01	14.485	17.890	16.905	303.4	147.7
Pt	4114875335901487360	17 23 07.28443 -21 37 04.25485	19.5	5267.1	624.3	-20.94	9.157	17.940	0	-21.7	162.3
Ti460135	2046-05-11 02:44:17.66	17 22 50.17402 -21 36 51.60835	28.4	526.5	80.9	4.29	13.900	17.479	16.357	351.2	148.6
Pt	4114872617132085632	17 22 50.17684 -21 36 51.08331	19.2	3493.8	537.2	-21.42	9.149	17.554	0	-21.7	150.9
Ti460136	2046-05-11 07:12:37.14	17 22 46.45563 -21 36 47.45673	46.1	483.0	82.9	4.77	15.000	18.372	17.399	284.0	148.8
Pt	4114873338685797248	17 22 46.45851 -21 36 46.97539	30.5	3204.5	550.3	-21.44	9.148	18.447	0	-21.7	148.4
Ti460137	2046-05-12 01:32:09.29	17 22 31.29177 -21 36 25.15947	52.2	623.3	105.3	186.66	14.922	18.714	17.711	8.3	149.6
Pt	4114873274312428928	17 22 31.28659 -21 36 25.77857	37.3	4132.5	698.3	-21.23	9.142	18.779	0	-21.6	138.0
Ti460138	2046-05-12 08:44:49.86	17 22 25.40527 -21 36 14.60870	6.0	1078.2	117.4	187.36	10.493	14.524	13.433	259.8	149.9
P	4115060844110342400	17 22 25.39537 -21 36 15.67797	4.0	7146.6	778.5	-21.03	9.139	14.578	0	-21.6	133.9
Ti460139	2046-05-12 15:20:36.09	17 22 20.06681 -21 36 06.02335	44.4	351.3	128.8	7.98	14.323	18.456	17.352	160.5	150.2

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4115060874143510528	17 22 20.07031	-21 36 05.67544	32.2	2328.2	854.1	-20.79	9.138	18.498	0	-21.6	130.1
Ti460140	2046-05-12 16:26:05.53	17 22 19.18438	-21 36 05.09177	12.8	1148.0	130.7	8.08	12.037	16.103	15.000	144.1	150.2
P	4115060878470099328	17 22 19.19595	-21 36 03.95514	8.9	7607.9	866.5	-20.74	9.137	16.142	0	-21.6	129.5
Ti460141	2046-05-12 22:09:40.25	17 22 14.65318	-21 35 53.83438	12.0	825.4	140.4	188.60	11.964	16.140	15.020	58.0	150.4
P	4115059607159795712	17 22 14.64433	-21 35 54.65052	8.1	5469.0	930.6	-20.49	9.136	16.166	0	-21.6	126.2
Ti460142	2046-05-13 03:18:11.69	17 22 10.61345	-21 35 45.81815	40.1	109.6	148.7	189.05	14.959	18.295	17.368	340.6	150.7
Pgt	4115059637185857792	17 22 10.61222	-21 35 45.92635	27.3	725.8	985.6	-20.23	9.134	18.307	0	-21.6	123.2
Ti460143	2046-05-13 06:47:56.67	17 22 07.91511	-21 35 38.82628	56.2	1004.0	154.1	189.33	14.677	18.725	17.614	288.0	150.8
P	4115060397403236608	17 22 07.90344	-21 35 39.81697	39.2	6650.5	1021.0	-20.05	9.133	18.727	0	-21.6	121.1
Ti460144	2046-05-14 05:37:06.18	17 21 50.95019	-21 34 58.20374	43.6	853.9	181.0	10.98	14.811	18.395	16.995	304.7	151.8
Pt	4115063180572670336	17 21 50.96185	-21 34 57.36549	29.9	5653.0	1198.2	-18.60	9.128	18.316	0	-21.6	107.7
Ti460145	2046-05-14 09:32:31.84	17 21 48.17778	-21 34 50.68594	19.6	917.1	183.9	11.21	13.469	17.042	16.037	245.7	152.0
Pt	4115063176239991680	17 21 48.19055	-21 34 49.78635	13.5	6070.8	1217.3	-18.32	9.127	16.947	0	-21.6	105.4
Ti460146	2046-05-16 12:54:11.17	17 21 16.02802	-21 33 16.18172	10.0	1172.7	168.8	11.81	12.452	15.913	14.912	193.0	154.2
P	4115052700850022912	17 21 16.04523	-21 33 15.03382	6.9	7754.3	1115.9	-14.52	9.117	15.565	0	-21.6	74.6
Ti460147	2046-05-17 07:05:00.12	17 21 06.35662	-21 32 47.14491	13.0	998.1	142.7	190.49	13.031	16.456	15.466	279.5	154.9
P	4115052872648775424	17 21 06.34359	-21 32 48.12632	9.9	6597.0	942.7	-13.41	9.113	16.022	0	-21.6	63.6
Ti460148	2046-05-18 23:04:53.92	17 20 46.80162	-21 32 09.67582	39.4	1085.6	83.9	184.41	13.914	17.742	16.460	37.8	156.6
P	4115053521156968832	17 20 46.79564	-21 32 10.75825	24.7	7167.9	553.7	-12.22	9.103	17.208	0	-21.6	39.5
Ti460149	2046-05-19 22:28:41.42	17 20 35.51637	-21 32 04.20884	5.8	448.1	92.0	180.14	10.301	14.473	13.352	45.9	157.6
Pt	4115056411702007680	17 20 35.51630	-21 32 04.65699	3.9	2956.7	606.8	-12.63	9.097	13.974	0	-21.6	25.8
Ti460150	2046-05-20 19:25:10.88	17 20 24.77804	-21 32 07.63608	48.6	797.9	124.6	177.23	14.949	18.593	17.492	90.9	158.5
P	4115055067345198720	17 20 24.78081	-21 32 08.43302	32.5	5260.3	820.8	-13.71	9.090	18.184	0	-21.6	14.0
Ti460151	2046-05-20 20:13:01.61	17 20 24.35563	-21 32 09.54542	39.8	819.9	125.9	357.14	13.641	18.335	17.014	78.9	158.5
Pt	4115055067343798400	17 20 24.35270	-21 32 08.72657	28.0	5405.1	829.7	-13.77	9.090	17.930	0	-21.6	13.5
Ti460152	2046-05-22 10:27:03.27	17 20 01.45236	-21 32 30.67676	46.6	715.5	175.0	175.56	14.592	18.602	17.551	223.7	160.1
Pt	4115055617103587584	17 20 01.45633	-21 32 31.39015	30.1	4710.4	1152.0	-17.11	9.077	18.433	0	-21.6	10.6
Ti460153	2046-05-23 04:09:10.19	17 19 48.98185	-21 32 43.80786	29.8	340.5	180.4	176.15	13.484	17.795	16.654	317.4	160.9
Pgt	4115096745710405376	17 19 48.98348	-21 32 44.14754	22.1	2239.7	1186.6	-18.93	9.070	17.735	0	-21.6	19.7
Ti460154	2046-05-24 19:35:52.42	17 19 16.72278	-21 33 03.84935	57.9	274.4	146.5	359.07	14.712	18.860	17.778	84.0	162.6
Pgt	4115097364185677440	17 19 16.72246	-21 33 03.57499	36.5	1802.5	963.1	-22.60	9.057	18.993	0	-21.6	40.4
Ti460155	2046-05-25 04:07:42.37	17 19 09.04306	-21 33 04.25497	24.9	327.1	133.0	179.85	12.988	17.337	16.193	315.6	162.9
Pgt	4115098876011598080	17 19 09.04312	-21 33 04.58208	15.6	2148.2	873.6	-23.21	9.055	17.498	0	-21.6	44.8
Ti460156	2046-05-25 22:24:52.89	17 18 51.98347	-21 33 00.96045	51.4	622.7	102.5	181.59	14.823	18.571	17.456	40.5	163.7
Pt	4115098704215087232	17 18 51.98224	-21 33 01.58292	33.8	4087.2	673.1	-24.19	9.050	18.777	0	-21.6	54.2
Ti460157	2046-05-26 03:43:08.23	17 18 46.91560	-21 33 00.47089	21.7	1163.3	94.8	2.10	13.367	17.100	16.036	320.7	164.0
Pt	4115099430100478208	17 18 46.91865	-21 32 59.30834	14.0	7634.6	622.4	-24.38	9.049	17.315	0	-21.6	56.9
Ti460158	2046-05-26 06:04:12.32	17 18 44.66172	-21 32 58.31953	62.2	227.3	91.7	2.33	14.081	18.808	17.482	285.3	164.1
Pgt	4115099494489070080	17 18 44.66238	-21 32 58.09244	39.8	1491.5	602.5	-24.45	9.048	19.026	0	-21.6	58.1
Ti460159	2046-05-26 11:14:33.30	17 18 39.68065	-21 32 54.27263	7.8	695.0	86.2	182.82	11.816	15.212	14.220	207.5	164.3
Pt	4115099597568286208	17 18 39.67820	-21 32 54.96680	4.9	4560.3	566.2	-24.58	9.047	15.437	0	-21.6	60.7
Ti460160	2046-05-27 03:41:37.23	17 18 23.73526	-21 32 39.62640	8.8	1325.7	83.2	184.38	11.230	15.502	14.360	320.0	165.0
P	4115017585218174336	17 18 23.72801	-21 32 40.94827	5.7	8695.7	546.4	-24.73	9.044	15.733	0	-21.6	68.9
Ti460161	2046-05-28 09:31:23.52	17 17 55.12878	-21 32 01.54843	39.1	538.4	124.5	7.01	14.763	17.905	16.963	231.2	166.3
Pt	4115018302426246656	17 17 55.13349	-21 32 01.01410	23.8	3529.5	816.8	-24.03	9.040	18.104	0	-21.6	83.7
Ti460162	2046-05-28 16:23:22.06	17 17 48.72591	-21 31 50.29373	66.5	710.4	136.5	7.56	14.196	18.924	17.829	127.9	166.6
Pt	4115021227350387456	17 17 48.73262	-21 31 49.58952	42.1	4657.1	895.1	-23.71	9.039	19.109	0	-21.6	87.1
Ti460163	2046-05-29 01:42:27.44	17 17 40.22107	-21 31 31.77627	30.5	1278.3	151.8	188.27	13.227	17.686	16.505	347.7	167.0
P	4115020020415133952	17 17 40.20789	-21 31 33.04130	19.5	8379.6	995.8	-23.20	9.038	17.847	0	-21.6	91.8
Ti460164	2046-05-29 09:19:54.78	17 17 33.38140	-21 31 19.59379	10.6	845.8	163.1	8.80	11.925	15.497	14.470	233.0	167.3

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4115020059118818176	17 17 33.39067 -21 31 18.75794	6.9	5544.2	1069.5	-22.73	9.038	15.635	0	-21.6	95.5
Ti460165	2046-05-29 15:13:34.17	17 17 28.22008 -21 31 07.98668	30.4	643.8	170.7	9.19	12.623	17.878	16.622	144.3	167.6
Pt	4115020776327422848	17 17 28.22744 -21 31 07.35117	21.4	4219.6	1119.6	-22.33	9.037	17.998	0	-21.6	98.5
Ti460166	2046-06-01 11:11:25.77	17 16 36.43500 -21 28 55.68037	22.0	465.0	169.2	10.40	13.191	17.316	16.215	201.9	170.5
Pt	4115769479352202624	17 16 36.44101 -21 28 55.22295	14.2	3047.7	1108.6	-17.00	9.036	17.139	0	-21.5	132.6
Ti460167	2046-06-01 12:34:24.75	17 16 35.53760 -21 28 52.59148	55.0	319.7	167.5	190.33	14.248	18.853	17.752	181.0	170.5
Pgt	4115769475024322176	17 16 35.53349 -21 28 52.90600	37.3	2095.2	1097.1	-16.90	9.036	18.670	0	-21.5	133.3
Ti460168	2046-06-02 02:42:04.19	17 16 26.55515 -21 28 29.81564	43.0	1149.2	146.8	189.42	13.500	18.333	17.137	328.5	171.1
P	4115769337585377536	17 16 26.54167 -21 28 30.94930	29.2	7530.8	961.7	-15.97	9.036	18.089	0	-21.5	140.6
Ti460169	2046-06-02 04:24:25.01	17 16 25.49336 -21 28 28.04390	38.6	489.1	144.1	189.28	13.095	18.124	16.895	302.9	171.2
Pt	4115769406304854912	17 16 25.48771 -21 28 28.52656	23.6	3204.9	943.5	-15.86	9.036	17.872	0	-21.5	141.5
Ti460170	2046-06-03 04:41:09.17	17 16 11.06903 -21 27 58.91423	25.2	1253.0	103.1	186.50	13.465	17.567	16.484	297.6	172.2
P	4115770299658065152	17 16 11.05886 -21 28 00.15917	16.5	8210.3	675.1	-14.76	9.035	17.238	0	-21.5	154.1
Ti460171 ^a	2046-06-04 22:02:49.94	17 15 47.42055 -21 27 41.34101	20.8	446.9	95.7	0.16	12.300	16.319	0	35.4	173.9
Pt	4115780818065729152	17 15 47.42065 -21 27 40.89411	13.2	2927.2	626.1	-14.79	9.031	15.992	0	-21.5	174.1
Ti460172 ^a	2046-06-04 22:04:14.34	17 15 47.40675 -21 27 42.10313	11.1	1209.6	95.7	0.16	12.300	15.863	14.396	35.0	173.9
Pt	4115780818037023616	17 15 47.40700 -21 27 40.89356	7.3	7922.7	626.3	-14.80	9.031	15.536	0	-21.5	174.1
Ti460173	2046-06-05 11:32:31.20	17 15 39.41863 -21 27 41.73009	31.5	600.6	116.6	178.44	14.914	17.959	17.043	192.4	174.4
Pt	4115781157335397376	17 15 39.41980 -21 27 42.33050	20.2	3933.4	763.3	-15.38	9.029	17.674	0	-21.5	173.0
Ti460174	2046-06-05 21:30:51.17	17 15 33.27247 -21 27 45.41415	37.5	34.5	133.4	177.46	14.877	18.222	17.352	42.4	174.8
Pgt	4115781191697268480	17 15 33.27258 -21 27 45.44864	24.5	226.1	873.2	-15.98	9.028	17.978	0	-21.5	168.5
Ti460175	2046-06-05 23:17:20.61	17 15 32.15455 -21 27 46.63277	14.3	468.4	136.4	357.30	13.608	16.515	15.613	15.7	174.9
Pt	4115781196022865024	17 15 32.15297 -21 27 46.16491	9.0	3066.8	892.3	-16.10	9.028	16.279	0	-21.5	167.5
Ti460176	2046-06-06 07:01:38.08	17 15 27.16496 -21 27 48.55199	28.3	1237.0	148.5	176.77	14.564	17.706	16.758	259.3	175.2
P	4115781294774348160	17 15 27.16996 -21 27 49.78700	17.7	8098.3	971.6	-16.66	9.027	17.508	0	-21.5	163.5
Ti460177	2046-06-09 03:45:48.45	17 14 33.69473 -21 28 32.82386	13.1	640.2	164.9	358.16	12.896	16.487	15.474	305.2	177.8
Pt	411580696582779200	17 14 33.69326 -21 28 32.18402	8.8	4186.1	1078.9	-22.95	9.016	16.637	0	-21.5	124.3
Ti460178	2046-06-09 10:58:02.74	17 14 27.09100 -21 28 34.88068	31.4	186.4	155.9	358.72	14.880	17.899	17.002	196.8	178.0
Pg	4115806927135896704	17 14 27.09070 -21 28 34.69429	21.1	1219.0	1019.8	-23.53	9.015	18.075	0	-21.5	120.0
Ti460179	2046-06-09 16:34:51.75	17 14 21.83345 -21 28 34.72159	12.9	1324.7	147.8	179.17	13.301	16.329	15.426	112.3	178.2
P	4115807098934589568	17 14 21.83482 -21 28 36.04618	8.8	8661.0	967.0	-23.94	9.015	16.524	0	-21.5	116.7
Ti460180	2046-06-09 20:22:35.35	17 14 18.22971 -21 28 35.36509	20.5	1268.6	141.9	179.49	13.351	17.044	16.026	55.2	178.2
P	4115806794029145216	17 14 18.23052 -21 28 36.63361	13.7	8293.5	928.4	-24.20	9.014	17.251	0	-21.5	114.5
Ti460181	2046-06-10 01:45:58.36	17 14 13.04783 -21 28 37.78713	13.2	801.0	133.1	359.95	13.215	16.303	15.389	334.1	178.4
Pt	4115807515583671808	17 14 13.04778 -21 28 36.98613	8.7	5236.4	870.7	-24.54	9.014	16.525	0	-21.5	111.3
Ti460182	2046-06-10 04:07:44.43	17 14 10.75365 -21 28 37.16407	14.0	209.0	129.1	0.16	12.937	16.449	15.451	298.6	178.4
Pgt	4115807412504467072	17 14 10.75370 -21 28 36.95508	9.4	1366.2	844.6	-24.67	9.013	16.677	0	-21.5	110.0
Ti460183	2046-06-10 10:17:08.33	17 14 04.71883 -21 28 37.20020	18.6	879.4	118.6	0.71	14.393	17.113	16.273	206.0	178.5
Pt	4115807446864228992	17 14 04.71960 -21 28 36.32088	12.2	5748.4	775.7	-24.99	9.013	17.355	0	-21.5	106.3
Ti460184	2046-06-10 10:41:15.94	17 14 04.32281 -21 28 36.31246	10.2	61.4	117.9	0.74	12.432	15.858	14.887	199.9	178.5
Pgt	4115807446864231680	17 14 04.32287 -21 28 36.25103	6.7	401.6	771.2	-25.01	9.013	16.101	0	-21.5	106.1
Ti460185	2046-06-11 01:06:13.95	17 13 49.92895 -21 28 32.38615	18.7	1028.3	95.1	2.05	7.062	14.385	12.771	343.0	178.4
Pt	4115804766804699776	17 13 49.93158 -21 28 31.35856	25.0	6720.9	622.1	-25.54	9.012	14.651	0	-21.5	97.6
Ti460186	2046-06-11 20:57:23.73	17 13 29.82430 -21 28 15.86914	12.4	976.2	82.0	183.86	14.937	17.721	16.874	44.3	178.0
P	4115805316560611200	17 13 29.81959 -21 28 16.84317	17.3	6380.8	536.5	-25.76	9.012	17.996	0	-21.5	85.8
Ti460187	2046-06-12 12:46:29.29	17 13 13.83892 -21 27 59.74022	51.1	726.3	95.3	5.27	14.874	18.599	17.579	166.3	177.5
Pt	4115804040917904640	17 13 13.84370 -21 27 59.01700	34.5	4747.3	623.7	-25.52	9.012	18.864	0	-21.5	76.4
Ti460188	2046-06-13 01:46:13.54	17 13 00.93939 -21 27 39.47718	16.2	1158.8	116.0	186.37	12.968	16.173	15.236	330.8	177.0
P	4115815933719900928	17 13 00.93018 -21 27 40.62880	10.8	7575.0	759.0	-25.07	9.013	16.418	0	-21.5	68.7
Ti460189	2046-06-13 10:56:35.86	17 12 51.98902 -21 27 26.64223	13.7	1064.3	132.1	7.11	12.864	16.258	15.313	192.8	176.7

Table 4 continued on next page

Table 4 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4115816346036807168	17 12 51.99846 -21 27 25.88612	9.0	6958.0	864.0	-24.62	9.014	16.484	0	-21.5	63.3
Ti460190	2046-06-13 18:48:45.84	17 12 44.47617 -21 27 13.46018	11.5	1224.4	145.5	7.71	13.176	15.868	15.045	74.4	176.4
P	411581658658441344	17 12 44.48794 -21 27 12.24686	7.5	8005.4	951.6	-24.16	9.015	16.073	0	-21.5	58.7
Ti460191	2046-06-14 08:36:18.42	17 12 31.73011 -21 26 45.97610	13.2	608.6	166.1	188.67	13.577	16.416	15.571	226.9	175.8
Pt	4115819472773106048	17 12 31.72354 -21 26 46.57770	8.7	3979.7	1087.0	-23.22	9.017	16.579	0	-21.5	50.5
Ti460192	2046-06-14 23:22:53.14	17 12 18.68337 -21 26 18.05859	18.3	678.2	182.3	9.53	14.047	16.937	16.081	4.6	175.2
Pt	4115444470588853120	17 12 18.69142 -21 26 17.38973	11.2	4436.5	1193.1	-22.06	9.019	17.044	0	-21.5	41.9
Ti460193	2046-06-16 01:12:26.48	17 11 57.69558 -21 25 24.91802	17.5	419.1	191.7	190.48	14.879	16.976	16.232	336.1	174.2
Pt	4115632723265443712	17 11 57.69013 -21 25 25.33011	11.0	2742.6	1254.8	-19.83	9.024	16.967	0	-21.5	26.9
Ti460194	2046-06-16 11:46:56.22	17 11 49.75624 -21 25 05.19835	5.4	485.7	188.1	10.59	10.939	14.370	13.417	177.0	173.7
Pt	4115632968108286336	17 11 49.76263 -21 25 04.72091	3.3	3179.4	1231.3	-18.89	9.026	14.308	0	-21.5	21.0
Ti460195	2046-06-17 20:24:48.41	17 11 27.60758 -21 24 07.76132	22.6	973.5	152.6	189.50	14.557	17.370	16.494	46.1	172.4
P	4115632487072021376	17 11 27.59607 -21 24 08.72148	13.8	6376.8	998.7	-16.28	9.031	17.147	0	-21.5	5.5
Ti460196	2046-06-19 08:30:00.32	17 11 06.17796 -21 23 26.81474	13.9	1281.0	93.9	185.39	13.572	16.518	15.672	223.2	170.9
P	4115635270210528256	17 11 06.16934 -21 23 28.09012	8.9	8396.3	614.8	-14.46	9.037	16.166	0	-21.4	19.3
Ti460197	2046-06-19 18:18:54.34	17 11 00.65087 -21 23 21.91104	13.5	67.3	84.4	3.86	13.538	15.911	15.141	75.6	170.5
Pgt	4115636060461219328	17 11 00.65120 -21 23 21.84388	8.7	441.3	552.8	-14.26	9.038	15.544	0	-21.4	24.5
Ti460198	2046-06-19 19:11:04.27	17 11 00.16756 -21 23 20.84140	44.9	554.2	83.9	183.72	14.726	18.443	17.730	62.5	170.4
Pt	4115636056162379136	17 11 00.16499 -21 23 21.39444	28.0	3632.9	549.6	-14.25	9.038	18.076	0	-21.4	24.9
Ti460199	2046-06-19 19:49:47.96	17 10 59.80458 -21 23 20.98573	15.3	86.1	83.6	183.61	13.856	16.726	15.862	52.8	170.4
Pgt	4115636056158241152	17 10 59.80419 -21 23 21.07171	10.2	564.7	547.5	-14.25	9.038	16.357	0	-21.4	25.3
Ti460200	2046-06-20 02:46:03.18	17 10 55.93174 -21 23 18.00647	12.1	183.3	82.4	182.49	14.044	16.270	15.551	308.4	170.1
Pgt	4115635957405315584	17 10 55.93117 -21 23 18.18962	8.1	1201.8	539.8	-14.22	9.039	15.900	0	-21.4	29.0
Ti460201	2046-06-20 11:42:31.16	17 10 50.93114 -21 23 15.25182	23.8	787.3	87.1	181.05	14.449	17.488	16.628	173.9	169.8
P	411563612487723648	17 10 50.93010 -21 23 16.03899	15.8	5162.0	570.3	-14.29	9.040	17.123	0	-21.4	33.7
Ti460202	2046-06-20 12:19:34.20	17 10 50.58304 -21 23 16.22739	20.5	273.2	87.6	0.95	14.005	17.234	16.301	164.6	169.7
Pgt	4115636197923493120	17 10 50.58337 -21 23 15.95425	13.6	1791.1	574.0	-14.30	9.040	16.870	0	-21.4	34.0
Ti460203	2046-06-20 15:13:52.19	17 10 48.94941 -21 23 14.40879	15.3	1255.3	90.6	180.50	13.773	16.640	15.780	120.9	169.6
P	4115636197923855616	17 10 48.94862 -21 23 15.66400	10.1	8230.5	593.4	-14.35	9.040	16.279	0	-21.4	35.5
Ti460204	2046-06-24 01:16:36.04	17 09 55.33950 -21 23 56.99555	10.9	781.9	180.6	176.23	8.135	13.607	12.175	326.6	166.2
P	4115644135022847232	17 09 55.34319 -21 23 57.77577	8.1	5129.2	1184.7	-19.96	9.045	13.605	0	-21.5	77.6
Ti460205	2046-06-24 14:04:26.58	17 09 45.03566 -21 24 05.81511	44.5	583.5	174.7	176.95	14.953	18.187	17.379	134.1	165.6
Pt	4115643993273197568	17 09 45.03788 -21 24 06.39782	32.3	3828.1	1146.4	-21.09	9.045	18.245	0	-21.5	83.9
Ti460206	2046-06-27 11:49:45.50	17 08 41.28518 -21 24 08.96363	13.8	1078.5	82.3	3.05	14.222	16.492	15.752	164.6	162.6
P	4115667637085376640	17 08 41.28929 -21 24 07.88670	9.7	7081.0	541.1	-24.43	9.053	16.709	0	-21.5	118.5
Ti460207	2046-06-28 00:45:49.22	17 08 28.92925 -21 23 56.53222	27.4	289.2	84.7	184.28	14.719	17.488	16.665	330.0	162.1
Pgt	4115670553339670784	17 08 28.92770 -21 23 56.82060	17.9	1899.3	556.9	-24.31	9.056	17.700	0	-21.5	125.0
Ti460208	2046-06-28 08:17:31.74	17 08 21.79795 -21 23 48.05978	20.3	686.4	92.5	184.99	14.880	17.043	16.312	216.8	161.7
Pt	4115670385864528768	17 08 21.79368 -21 23 48.74362	13.8	4509.2	607.9	-24.12	9.057	17.247	0	-21.5	128.8
Ti460209	2046-06-28 16:04:20.38	17 08 14.49543 -21 23 39.98258	25.5	769.5	103.7	5.70	14.956	17.190	16.422	99.7	161.4
Pt	4115671171814214016	17 08 14.50091 -21 23 39.21689	17.3	5055.9	681.8	-23.85	9.059	17.381	0	-21.5	132.8
Ti460210	2046-06-29 10:06:57.65	17 07 58.03631 -21 23 13.06895	29.6	22.2	134.5	7.27	14.657	17.779	16.850	188.3	160.6
Pgt	4115665502457397888	17 07 58.03651 -21 23 13.04697	20.2	145.7	884.7	-22.91	9.064	17.927	0	-21.4	142.0
Ti460211*	2046-06-29 17:57:48.43	17 07 51.11295 -21 23 01.39954	42.3	1238.3	147.5	7.92	14.454	17.245	16.307	70.2	160.3
P	4115677287847663104	17 07 51.12516 -21 23 00.17300	28.5	8143.1	970.9	-22.40	9.067	17.368	0	-21.4	146.0

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

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

Table 5. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 5 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _p (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _p (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Ti460212	2046-06-29 20:41:08.01	17 07 48.76607 -21 22 55.79086	50.4	259.1	151.8	8.13	14.939	18.255	17.393	29.2	160.2
Pgt	4115677287848382848	17 07 48.76869 -21 22 55.53439	32.9	1703.8	999.1	-22.20	9.068	18.369	0	-21.4	147.4
Ti460213	2046-06-30 04:14:28.73	17 07 42.35124 -21 22 41.82283	8.4	445.8	162.9	188.70	12.564	15.391	14.531	275.6	159.8
Pt	4115677463955100672	17 07 42.34641 -21 22 42.26346	5.8	2932.3	1071.9	-21.64	9.070	15.477	0	-21.4	151.3
Ti460214	2046-06-30 07:51:02.38	17 07 39.34918 -21 22 35.19296	29.2	561.9	167.6	188.96	14.989	17.754	16.977	221.3	159.7
Pt	4115677425286629376	17 07 39.34292 -21 22 35.74803	20.0	3696.9	1103.1	-21.35	9.071	17.825	0	-21.4	153.2
Ti460215	2046-07-01 12:22:12.19	17 07 17.22711 -21 21 41.03437	30.8	1232.2	189.8	190.57	14.678	17.750	16.869	152.2	158.5
P	4115680968664197248	17 07 17.21092 -21 21 42.24563	21.2	8115.8	1250.4	-18.82	9.081	17.684	0	-21.4	167.9
Ti460216	2046-07-02 12:56:25.13	17 07 00.53899 -21 20 57.65131	39.6	299.2	184.5	11.09	14.999	18.103	17.231	142.6	157.4
Pgt	4115680517663780480	17 07 00.54310 -21 20 57.35766	27.7	1972.9	1215.9	-16.52	9.091	17.895	0	-21.4	174.0
Ti460217	2046-07-06 15:53:39.31	17 06 10.12253 -19 19 29.86495	4.2	167.8	93.7	178.63	10.640	13.591	12.734	94.0	153.3
Pgt	4127597372598625280	17 06 10.12282 -19 19 30.03273	2.8	1110.5	619.5	-11.80	9.124	13.019	0	-21.4	119.1
Ti460218	2046-07-08 11:06:01.68	17 05 48.86649 -21 19 54.23645	10.5	1198.2	159.3	353.74	13.568	15.730	15.046	164.0	151.5
P	4127600117057518464	17 05 48.85715 -21 19 53.04540	7.6	7937.7	1054.7	-13.98	9.134	15.341	0	-21.4	93.2
Ti460219	2046-07-08 15:31:57.28	17 05 46.43366 -21 19 56.64898	18.4	148.3	164.3	173.62	13.840	16.845	15.988	97.4	151.3
Pgt	4127600018298494464	17 05 46.43484 -21 19 56.79635	13.1	982.5	1088.3	-14.31	9.135	16.481	0	-21.4	90.5
Ti460220	2046-07-08 18:01:30.01	17 05 45.03977 -21 19 58.03327	7.5	944.0	166.8	173.58	11.922	15.045	14.162	59.9	151.2
Pt	4127600018298495872	17 05 45.04732 -21 19 58.97135	5.4	6254.9	1105.3	-14.51	9.136	14.696	0	-21.4	89.0
Ti460221	2046-07-10 06:11:33.87	17 05 22.67530 -21 20 31.93059	18.7	52.2	176.1	354.87	14.260	16.659	15.894	235.8	149.7
Pgt	4127599434182522624	17 05 22.67497 -21 20 31.87862	12.9	346.0	1168.1	-17.52	9.144	16.515	0	-21.4	67.5
Ti460222	2046-07-11 14:03:59.24	17 04 59.56917 -21 20 53.84811	28.9	844.5	141.7	357.75	14.619	17.722	16.868	116.3	148.4
Pt	4127605099219527552	17 04 59.56680 -21 20 53.00428	20.1	5605.1	940.9	-19.75	9.151	17.709	0	-21.4	48.9
Ti460223	2046-07-12 00:38:50.86	17 04 51.34681 -21 20 56.84912	7.7	444.2	124.4	358.86	11.754	15.037	14.115	317.1	147.9
Pt	4127605893813377280	17 04 51.34618 -21 20 56.40496	5.0	2949.5	826.5	-20.26	9.154	15.051	0	-21.4	42.7
Ti460224	2046-07-12 05:32:18.68	17 04 47.48209 -21 20 58.33209	5.8	1105.2	116.1	359.39	12.814	17.490	0	243.5	147.7
Pt	4127605790716169344	17 04 47.48125 -21 20 57.22700	3.2	7338.8	771.8	-20.45	9.156	17.514	0	-21.4	39.9
Ti460225	2046-07-12 07:03:38.41	17 04 46.27190 -21 20 57.95624	15.7	574.6	113.6	359.56	13.267	16.391	15.481	220.6	147.6
Pt	4127605996892599040	17 04 46.27158 -21 20 57.38168	10.8	3815.6	754.8	-20.50	9.156	16.418	0	-21.4	39.0
Ti460226	2046-07-14 00:06:43.11	17 04 13.24098 -21 20 43.21878	7.1	610.0	85.2	4.11	13.173	15.080	14.425	323.0	145.9
Pt	4127608058476707840	17 04 13.24411 -21 20 42.61032	5.0	4057.5	566.9	-20.60	9.171	15.112	0	-21.4	16.1
Ti460227	2046-07-15 15:47:18.06	17 03 43.16234 -21 19 56.90915	13.0	91.2	146.0	188.27	13.396	16.271	15.383	86.1	144.2
Pgt	4127655028241701248	17 03 43.16141 -21 19 56.99936	8.7	607.5	973.5	-18.49	9.189	16.186	0	-21.4	8.8
Ti460228	2046-07-15 16:12:42.40	17 03 42.86466 -21 19 56.13922	4.3	252.8	146.7	188.32	11.736	13.573	12.958	79.7	144.2
Pgt	4127655023922897664	17 03 42.86204 -21 19 56.38937	2.8	1684.8	978.0	-18.46	9.189	13.486	0	-21.4	9.0
Ti460229	2046-07-17 05:38:30.50	17 03 18.84152 -21 18 57.27488	20.8	238.3	185.7	191.50	14.520	17.053	16.269	236.6	142.6
Pgt	4127635511909220608	17 03 18.83812 -21 18 57.50843	13.6	1591.7	1240.4	-15.15	9.208	16.752	0	-21.4	28.1
Ti460230	2046-07-17 11:54:30.57	17 03 15.32444 -21 18 47.41625	46.2	74.3	187.5	11.89	14.664	18.314	17.593	142.4	142.3
Pgt	4127635473231799168	17 03 15.32553 -21 18 47.34359	32.9	496.1	1253.1	-14.53	9.211	17.967	0	-21.4	31.4
Ti460231	2046-07-17 17:59:00.90	17 03 12.05647 -21 18 38.19749	21.0	602.2	187.9	12.22	14.848	16.988	16.258	51.0	142.1
Pt	4127635473231804032	17 03 12.06560 -21 18 37.60898	14.2	4024.4	1255.9	-13.93	9.215	16.595	0	-21.4	34.6
Ti460232	2046-07-28 03:07:26.66	17 01 35.41692 -21 19 17.78706	17.2	540.6	114.5	356.90	14.601	16.812	16.138	263.2	131.8
Pt	4127644101844166912	17 01 35.41482 -21 19 17.24721	12.3	3656.6	774.7	-15.20	9.325	16.514	0	-21.4	159.9
Ti460233	2046-07-28 23:17:53.02	17 01 23.58575 -21 19 22.59060	40.3	740.0	85.5	359.90	14.272	18.310	17.100	319.8	130.9
Pt	4127644789038977536	17 01 23.58566 -21 19 21.85062	29.0	5009.9	579.6	-15.50	9.335	18.033	0	-21.4	169.9
Ti460234	2046-07-31 22:16:32.38	17 00 45.09683 -21 18 35.66546	6.8	44.7	155.5	10.32	12.993	14.884	14.251	332.0	128.0
Pgt	4127831740367080192	17 00 45.09740 -21 18 35.62151	4.8	303.8	1058.2	-12.15	9.375	14.343	0	-21.4	148.0
Ti460235*	2046-08-02 15:00:27.23	17 00 29.73420 -21 17 45.20952	54.9	407.9	184.1	196.23	14.468	16.590	15.826	79.3	126.3

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4126333793199676544	17 00 29.72605 -21 17 45.60112	36.7	2781.3	1256.0	-8.23	9.402	15.626	0	-21.4	123.7
Ti460236	2046-08-12 05:09:05.14	16 59 59.52530 -21 19 35.98359	15.8	679.7	143.0	343.44	13.988	16.430	15.667	217.6	117.0
Pt	4126334171171523072	16 59 59.51144 -21 19 35.33203	10.5	4699.8	989.5	-7.97	9.533	15.430	0	-21.4	13.1
Ti460237	2046-08-14 08:47:07.88	16 59 43.24160 -21 20 11.28757	11.4	221.5	77.3	177.71	13.764	15.938	15.274	160.9	114.9
Pgt	4126344543505286784	16 59 43.24224 -21 20 11.50887	8.0	1536.0	536.8	-8.64	9.562	15.027	1	-21.4	39.7
Ti460238	2046-08-14 12:12:52.20	16 59 42.14666 -21 20 12.12749	22.9	123.1	77.5	358.58	14.600	17.199	16.418	109.3	114.7
Pgt	4126344547812200704	16 59 42.14644 -21 20 12.00439	16.0	854.2	537.9	-8.56	9.564	16.278	0	-21.4	41.5
Ti460239	2046-08-20 17:52:10.76	16 59 26.10483 -21 18 50.89960	17.2	484.4	133.1	175.91	14.233	16.688	15.941	18.2	108.7
Pt	4126345235006998784	16 59 26.10730 -21 18 51.38274	11.8	3398.2	934.1	4.10	9.673	14.967	0	-21.4	116.3
Ti460240	2046-08-21 23:18:37.01	16 59 31.55395 -21 18 56.24099	23.0	863.7	88.7	8.35	14.502	17.175	16.372	295.5	107.5
Pt	4126344513452485248	16 59 31.56293 -21 18 55.38649	15.6	6072.2	623.2	5.89	9.694	15.848	0	-21.4	130.7
Ti460241	2046-08-23 18:04:48.89	16 59 41.38380 -21 19 33.36055	31.5	225.1	98.5	202.53	14.707	17.747	17.088	12.2	105.8
Pgt	4126344547812537344	16 59 41.37763 -21 19 33.56846	22.1	1587.1	694.1	6.78	9.722	16.572	0	-21.4	151.8
Ti460242	2046-09-06 22:46:18.22	17 00 31.42966 -21 23 38.25769	10.1	1097.2	86.1	7.03	12.658	15.602	14.759	288.0	92.3
P	4126329841844386432	17 00 31.43928 -21 23 37.16874	6.8	7921.4	621.5	13.68	9.954	15.190	0	-21.5	9.5
Ti460243	2046-09-07 09:13:23.59	17 00 36.57906 -21 23 46.81470	16.1	225.1	77.1	188.63	14.350	16.485	15.795	130.9	91.9
Pgt	4126329120289870976	17 00 36.57665 -21 23 47.03729	11.2	1626.6	556.4	14.09	9.962	16.104	0	-21.5	5.5
Ti460244	2046-09-07 20:55:03.04	17 00 42.43469 -21 24 01.00036	15.9	228.3	76.2	10.43	14.278	16.348	15.661	315.0	91.5
Pg	4126329223369073280	17 00 42.43765 -21 24 00.77583	10.6	1650.8	550.6	14.37	9.970	15.989	0	-21.5	6.7
Ti460245	2046-09-08 18:54:51.40	17 00 53.51132 -21 24 33.45468	9.5	594.0	98.7	193.88	12.867	15.413	14.647	344.2	90.6
P	4126141619203392640	17 00 53.50111 -21 24 34.03131	6.6	4301.3	714.2	14.39	9.984	15.056	0	-21.5	17.0
Ti460246	2046-09-08 20:40:45.46	17 00 54.39473 -21 24 36.17469	36.5	944.4	101.2	194.17	14.976	17.938	17.238	317.6	90.5
P	4126141546173587072	17 00 54.37818 -21 24 37.09042	24.8	6839.8	732.7	14.37	9.985	17.579	0	-21.5	17.9
Ti460247	2046-09-08 21:12:46.16	17 00 54.62831 -21 24 38.81904	15.9	818.5	102.0	14.25	14.281	16.467	15.797	309.6	90.5
Pt	4126141550483915520	17 00 54.64274 -21 24 38.02573	10.6	5927.8	738.4	14.36	9.986	16.107	0	-21.5	18.1
Ti460248	2046-09-08 22:52:37.36	17 00 55.48208 -21 24 40.11641	15.3	886.3	104.5	194.52	14.112	16.372	15.658	284.6	90.5
P	4126141550483914624	17 00 55.46617 -21 24 40.97438	10.6	6419.3	756.2	14.33	9.987	16.010	0	-21.5	19.0
Ti460249	2046-09-10 21:28:52.71	17 01 16.61834 -21 26 18.69072	19.8	731.0	159.3	21.99	14.971	16.909	16.229	303.7	88.7
Pt	4127641520543596160	17 01 16.63795 -21 26 18.01285	13.5	5309.8	1157.2	12.22	10.015	16.374	0	-21.5	42.9
Ti460250	2046-09-11 09:02:27.78	17 01 21.13569 -21 26 43.44571	24.5	939.0	163.2	203.69	14.890	17.266	16.553	129.8	88.2
P	4127641456144224640	17 01 21.10866 -21 26 44.30560	16.6	6824.7	1186.1	11.42	10.021	16.658	0	-21.5	48.8
Ti460251	2046-09-16 03:10:48.37	17 01 51.81140 -21 29 44.67793	16.3	1182.3	86.9	8.78	13.931	16.484	15.716	213.2	83.7
P	4127625818144842624	17 01 51.82434 -21 29 43.50949	11.1	8654.1	636.5	7.48	10.092	15.416	0	-21.6	105.4
Ti460252	2046-09-19 01:29:00.14	17 02 16.71268 -21 29 55.42048	7.9	1035.6	168.9	359.72	11.972	14.738	13.921	235.9	80.9
P	4127626337859551360	17 02 16.71231 -21 29 54.38486	5.4	7621.1	1243.6	13.41	10.146	14.304	0	-21.6	139.9
Ti460253	2046-09-22 05:14:57.62	17 03 02.18875 -21 30 15.35027	30.0	248.2	107.5	184.70	14.934	17.396	16.670	176.4	78.0
Pg	4127628536882178688	17 03 02.18729 -21 30 15.59764	19.0	1837.1	795.2	20.44	10.205	17.420	0	-21.6	174.9
Ti460254	2046-09-22 05:56:56.55	17 03 02.68476 -21 30 16.16847	23.0	3.1	106.4	184.53	14.403	17.090	16.279	165.9	78.0
Pg	4127628326405728256	17 03 02.68475 -21 30 16.17156	14.7	22.9	787.4	20.49	10.206	17.116	0	-21.6	175.0
Ti460255	2046-09-22 10:48:05.28	17 03 06.15477 -21 30 21.46093	23.4	1059.6	99.2	5.22	14.573	17.233	16.332	93.0	77.8
P	4127628429484947968	17 03 06.16167 -21 30 20.40569	15.4	7846.1	734.3	20.78	10.209	17.275	0	-21.6	174.9
Ti460256	2046-09-25 10:27:00.86	17 03 59.67606 -21 32 15.89068	30.6	112.3	119.3	192.39	14.877	17.575	16.768	95.5	75.1
Pgt	4127578985821334912	17 03 59.67433 -21 32 16.00038	20.3	835.4	887.2	21.55	10.256	17.656	0	-21.6	139.3
Ti460257	2046-09-27 14:23:42.13	17 04 34.67602 -21 34 24.06845	14.9	1061.7	159.0	16.42	14.161	16.402	15.683	34.3	73.1
P	4127566345753084800	17 04 34.69753 -21 34 23.05007	10.3	7919.7	1186.6	18.34	10.285	16.307	0	-21.6	108.5
Ti460258	2046-09-27 21:55:44.35	17 04 39.22785 -21 34 40.77840	20.9	1026.7	157.2	196.70	13.918	16.939	16.071	281.0	72.8
P	4127588988821820800	17 04 39.20670 -21 34 41.76186	14.6	7662.0	1173.3	17.77	10.289	16.811	0	-21.6	103.9
Ti460259	2046-09-30 21:32:19.25	17 05 16.31171 -21 37 05.22786	16.3	967.9	76.0	11.41	13.601	16.434	15.599	284.1	70.1
Pt	4127585106171339904	17 05 16.32544 -21 37 04.27911	11.2	7251.5	569.5	14.30	10.330	16.071	0	-21.7	58.9
Ti460260	2046-10-02 19:23:53.83	17 05 39.48908 -21 37 47.66957	30.8	420.1	108.2	4.24	14.930	17.413	16.691	314.4	68.3

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4115576579452512512	17 05 39.49131 -21 37 47.25062	21.0	3156.7	813.7	15.89	10.361	17.163	0	-21.7	30.6
Ti460261	2046-10-05 09:04:53.16	17 06 18.68270 -21 38 05.90296	33.5	427.6	166.3	181.29	14.899	17.733	17.027	106.8	65.9
Pt	4115578950274450688	17 06 18.68201 -21 38 06.33046	24.1	3227.3	1255.6	21.59	10.406	17.816	0	-21.7	7.4
Ti460262	2046-10-09 18:12:49.14	17 07 52.23455 -21 39 33.63327	23.4	229.4	72.1	187.17	14.043	16.912	16.049	325.9	61.9
Pgt	4115657123005322240	17 07 52.23250 -21 39 33.86090	14.9	1743.6	547.9	29.14	10.479	17.320	0	-21.7	61.0
Ti460263	2046-10-10 20:17:52.73	17 08 17.81098 -21 40 24.31591	18.0	710.0	96.7	189.16	13.782	16.561	15.716	293.7	61.0
P	4115610118880668032	17 08 17.80288 -21 40 25.01686	12.1	5403.6	735.5	29.02	10.494	16.965	0	-21.7	73.9
Ti460264	2046-10-11 02:59:51.99	17 08 24.28928 -21 40 40.27244	5.2	276.2	106.1	9.65	10.382	13.560	12.649	192.9	60.7
Pgt	4115610148914409344	17 08 24.29261 -21 40 40.00017	3.3	2102.7	807.7	28.84	10.497	13.957	0	-21.7	77.2
Ti460265	2046-10-12 12:38:21.05	17 08 55.72240 -21 42 04.36674	19.5	960.2	146.2	11.81	13.155	16.368	15.463	47.1	59.4
P	4115607468854745728	17 08 55.73651 -21 42 03.42686	11.9	7322.3	1114.7	27.09	10.514	16.698	0	-21.8	93.7
Ti460266	2046-10-13 19:12:44.82	17 09 21.96010 -21 43 24.92654	16.0	912.7	154.5	12.86	13.439	16.293	15.444	307.3	58.3
Pt	4115595099348867584	17 09 21.97468 -21 43 24.03673	11.2	6969.6	1179.8	24.77	10.529	16.526	0	-21.8	108.6
Ti460267	2046-10-14 00:48:26.16	17 09 26.48739 -21 43 39.50069	13.1	1049.1	152.4	12.90	12.818	15.846	14.954	223.2	58.1
P	4115595069314928512	17 09 26.50421 -21 43 38.47807	8.9	8013.2	1164.2	24.33	10.531	16.059	0	-21.8	111.3
Ti460268	2046-10-15 09:26:16.79	17 09 51.41362 -21 44 56.25985	8.7	126.5	120.9	11.95	12.365	15.236	14.376	92.5	56.8
Pgt	4115599737913474944	17 09 51.41550 -21 44 56.13608	5.8	967.7	925.1	22.09	10.547	15.343	0	-21.8	127.3
Ti460269	2046-10-15 15:33:13.42	17 09 55.85675 -21 45 08.48081	5.0	506.9	112.3	191.53	10.663	13.708	12.818	0.5	56.6
P	4115596787301697536	17 09 55.84948 -21 45 08.97746	3.3	3878.3	860.2	21.78	10.550	13.800	0	-21.8	130.3
Ti460270	2046-10-16 08:35:32.34	17 10 07.96407 -21 45 40.82629	12.9	379.7	88.3	190.01	12.720	15.905	14.934	104.3	55.9
Pt	4115596856021116416	17 10 07.95933 -21 45 41.20024	9.6	2907.9	676.6	21.17	10.558	15.967	0	-21.8	138.7
Ti460271	2046-10-18 12:16:51.93	17 10 44.70548 -21 46 46.13159	29.8	908.8	95.4	4.35	14.862	17.532	16.700	47.0	53.9
P	4115409522403742208	17 10 44.71043 -21 46 45.22540	20.3	6978.7	733.5	22.07	10.588	17.640	0	-21.8	164.2
Ti460272*	2046-10-20 01:03:52.68	17 11 13.55837 -21 47 06.11732	107.6	315.5	144.6	1.91	14.686	18.334	17.150	213.8	52.5
Pgt	4115429416692238080	17 11 13.55912 -21 47 05.80203	75.4	2427.7	1113.4	24.87	10.611	18.571	0	-21.8	174.2
Ti460273	2046-10-20 17:12:47.70	17 11 27.45053 -21 47 11.78128	9.9	294.9	157.7	1.52	12.382	15.393	14.497	331.0	51.9
Pg	4115429317929580160	17 11 27.45110 -21 47 11.48647	6.8	2271.8	1214.9	26.43	10.621	15.695	0	-21.8	167.0
Ti460274	2046-10-21 02:56:37.53	17 11 36.23229 -21 47 14.23954	18.9	402.6	161.8	181.46	13.582	16.756	15.817	184.7	51.6
P	4115428905626522240	17 11 36.23155 -21 47 14.64203	12.9	3103.4	1247.2	27.40	10.628	17.098	0	-21.8	162.1
Ti460275	2046-10-22 19:30:39.05	17 12 16.19806 -21 47 31.06275	51.6	776.0	146.6	182.32	14.981	18.468	17.615	294.7	50.0
P	4115417871821265024	17 12 16.19580 -21 47 31.83813	32.8	5996.4	1132.6	31.38	10.654	18.957	0	-21.8	140.3
Ti460276	2046-10-22 22:57:44.84	17 12 19.83633 -21 47 32.98583	67.9	968.2	143.1	182.46	14.416	18.867	17.961	242.8	49.9
P	4115417700025296896	17 12 19.83335 -21 47 33.95314	44.4	7482.9	1105.8	31.69	10.656	19.366	0	-21.8	138.4
Ti460277	2046-10-23 23:21:45.60	17 12 46.44992 -21 47 52.53883	22.1	994.9	111.7	183.63	14.437	17.070	16.207	235.9	49.0
P	4115420384411529216	17 12 46.44540 -21 47 53.53174	14.3	7700.0	864.4	33.58	10.671	17.632	0	-21.9	124.7
Ti460278	2046-10-24 07:06:29.40	17 12 55.17718 -21 48 01.29476	25.5	399.3	100.6	184.06	14.188	17.292	16.397	119.4	48.7
P	4115419697217076736	17 12 55.17515 -21 48 01.69302	16.5	3091.4	778.4	34.06	10.676	17.870	0	-21.9	120.2
Ti460279	2046-10-24 17:23:27.48	17 13 06.92342 -21 48 14.61606	15.4	469.3	86.6	4.65	13.871	16.323	15.495	324.8	48.3
P	4115419830327858432	17 13 06.92615 -21 48 14.14826	9.9	3636.0	670.5	34.59	10.681	16.918	0	-21.9	114.3
Ti460280	2046-10-25 02:01:06.72	17 13 16.89084 -21 48 27.04714	20.5	967.5	77.1	5.18	14.017	16.790	15.928	195.1	48.0
P	4115372967969986432	17 13 16.89711 -21 48 26.08359	13.0	7498.4	597.3	34.93	10.686	17.395	0	-21.9	109.2
Ti460281	2046-10-25 04:27:26.11	17 13 19.73063 -21 48 29.57116	16.9	137.2	75.0	185.32	13.240	16.583	15.633	158.4	47.9
Pg	4115372757486290176	17 13 19.72971 -21 48 29.70775	10.8	1063.4	581.4	35.01	10.687	17.191	0	-21.9	107.7
Ti460282	2046-10-25 05:10:29.87	17 13 20.55826 -21 48 31.69497	22.6	903.5	74.5	5.37	13.908	17.145	16.216	147.6	47.9
P	4115372757486289920	17 13 20.56433 -21 48 30.79548	14.6	7003.2	577.2	35.03	10.688	17.753	0	-21.9	107.3
Ti460283	2046-10-25 12:02:46.66	17 13 28.58170 -21 48 40.55233	31.0	1149.7	71.0	185.80	14.439	17.555	16.636	44.3	47.6
P	4115373449006305024	17 13 28.57337 -21 48 41.69611	19.1	8914.6	550.1	35.20	10.691	18.169	0	-21.9	103.2
Ti460284	2046-10-25 18:11:54.45	17 13 35.77177 -21 48 51.16992	27.9	1037.1	70.7	186.18	13.130	17.454	16.328	311.8	47.4
P	4115373483366032000	17 13 35.76375 -21 48 52.20096	17.9	8044.0	547.9	35.29	10.695	18.071	0	-21.9	99.5
Ti460285	2046-10-28 08:06:53.89	17 14 46.65591 -21 51 10.90726	35.9	461.8	139.2	189.70	14.703	17.807	16.815	100.8	45.1

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	4115732435225680384	17 14 46.65032 -21 51 11.36243	23.4	3590.7	1082.4	33.33	10.721	18.362	0	-21.9	61.4
Ti470001	2047-02-05 02:42:26.58	18 02 11.30717 -22 23 47.34529	66.2	195.5	101.6	181.76	11.460	18.948	17.902	95.4	45.0
Pgt	4069866067157364864	18 02 11.30674 -22 23 47.54069	47.0	1518.5	789.7	25.87	10.710	19.227	0	-22.4	156.6
Ti470002	2047-02-05 05:41:15.94	18 02 13.87141 -22 23 49.22899	26.1	678.3	97.4	1.50	13.396	17.383	16.367	50.6	45.2
Pt	4069866071467034624	18 02 13.87269 -22 23 48.55095	18.5	5267.7	756.9	25.69	10.708	17.655	0	-22.4	158.1
Ti470003	2047-02-05 18:58:21.06	18 02 25.12524 -22 23 50.96671	35.9	14.6	80.2	180.25	13.799	17.930	16.827	210.8	45.7
Pgt	4069866548190059008	18 02 25.12524 -22 23 50.98134	26.3	113.6	622.6	25.04	10.701	18.174	0	-22.4	164.9
Ti470004	2047-02-07 06:30:22.23	18 02 54.47324 -22 23 40.90932	51.8	99.1	79.9	356.95	11.359	18.330	16.996	36.5	47.1
Pgt	4069855076351366656	18 02 54.47286 -22 23 40.81039	37.0	767.6	619.3	24.65	10.683	18.557	0	-22.4	174.8
Ti470005	2047-02-08 14:36:23.38	18 03 21.41740 -22 23 13.42232	48.4	206.9	124.5	174.98	10.852	18.296	16.968	273.8	48.3
Pg	4069857477219161728	18 03 21.41870 -22 23 13.62842	34.7	1600.9	963.4	25.76	10.668	18.570	0	-22.4	157.8
Ti470006	2047-02-08 21:06:25.42	18 03 27.05715 -22 23 07.63955	8.6	1033.6	133.0	354.76	10.615	15.215	13.922	176.0	48.6
P	4069857447172871424	18 03 27.05035 -22 23 06.61031	5.9	7994.9	1029.1	26.11	10.665	15.505	0	-22.4	154.1
Ti470007	2047-02-09 16:57:16.17	18 03 44.75853 -22 22 43.41427	74.6	141.1	153.3	354.47	12.979	18.896	17.744	237.6	49.3
Pg	4069858061338692992	18 03 44.75755 -22 22 43.27380	56.3	1090.8	1185.1	27.33	10.657	19.235	0	-22.4	142.7
Ti470008	2047-02-09 18:55:07.13	18 03 46.55060 -22 22 40.07936	83.8	786.3	154.7	174.48	11.928	18.965	17.447	208.1	49.4
P	4069858061338702336	18 03 46.55605 -22 22 40.86201	63.6	6077.0	1196.2	27.46	10.656	19.309	0	-22.4	141.5
Ti470009	2047-02-10 10:34:53.24	18 04 01.21805 -22 22 21.31865	76.0	125.8	162.0	174.65	13.790	18.881	17.615	332.5	50.0
Pg	4069858233137462656	18 04 01.21890 -22 22 21.44390	58.2	971.7	1251.5	28.54	10.650	19.267	0	-22.4	132.3
Ti470010	2047-02-10 14:44:49.46	18 04 05.21616 -22 22 16.21529	19.9	92.0	162.7	174.76	11.287	16.532	15.251	269.9	50.2
Pg	4069858271807287424	18 04 05.21677 -22 22 16.30693	13.2	710.6	1256.0	28.83	10.648	16.929	0	-22.4	129.8
Ti470011	2047-02-10 18:05:41.19	18 04 08.45366 -22 22 11.25890	52.4	958.6	162.7	174.85	13.740	17.945	16.825	219.6	50.3
P	4069670594603926528	18 04 08.45987 -22 22 12.21363	38.9	7402.0	1256.5	29.06	10.647	18.351	0	-22.4	127.8
Ti470012	2047-02-10 19:15:08.28	18 04 09.59421 -22 22 11.84887	44.8	1045.4	162.7	354.88	13.260	18.107	16.923	202.1	50.4
P	4069670702000386048	18 04 09.58749 -22 22 10.80761	34.2	8072.1	1256.0	29.14	10.646	18.516	0	-22.4	127.1
Ti470013	2047-02-10 19:52:40.10	18 04 10.19575 -22 22 09.67424	32.7	377.3	162.6	174.90	13.143	17.464	16.319	192.7	50.4
P	4069670702000385408	18 04 10.19817 -22 22 10.05007	23.8	2913.3	1255.6	29.18	10.646	17.874	0	-22.4	126.7
Ti470014 ^d	2047-02-10 22:43:43.70	18 04 12.99487 -22 22 06.84538	7.3	226.9	162.3	354.99	13.843	17.956	16.470	149.9	50.5
Pgt	4069670633269510144	18 04 12.99344 -22 22 06.61929	6.9	1752.1	1252.5	29.38	10.645	18.373	0	-22.4	125.0
Ti470015 ^d	2047-02-10 22:47:24.60	18 04 13.05277 -22 22 06.38062	23.2	165.9	162.2	174.99	13.843	18.479	0	-22.4	125.0
Pg	4069670628963654784	18 04 13.05381 -22 22 06.54588	18.2	1280.7	1252.4	29.38	10.645	18.897	0	-22.4	125.0
Ti470016	2047-02-11 01:41:20.24	18 04 15.91636 -22 22 03.12540	27.7	25.2	161.6	355.10	13.411	17.112	15.996	105.4	50.6
Pg	4069670663323397248	18 04 15.91621 -22 22 03.10030	18.4	194.5	1247.1	29.58	10.643	17.537	0	-22.4	123.3
Ti470017	2047-02-11 04:15:07.09	18 04 18.46627 -22 22 00.53737	19.0	444.8	160.8	355.18	13.136	16.653	15.617	66.8	50.7
P	4069693924866277760	18 04 18.46358 -22 22 00.09411	13.1	3433.4	1240.7	29.75	10.642	17.084	0	-22.4	121.7
Ti470018	2047-02-11 06:45:21.30	18 04 20.97379 -22 21 58.32208	26.0	1127.8	159.8	355.28	13.709	17.104	16.076	29.2	50.8
P	4069693924866275840	18 04 20.96710 -22 21 57.19808	20.4	8704.2	1232.9	29.92	10.641	17.541	0	-22.4	120.2
Ti470019	2047-02-12 07:37:48.09	18 04 46.58576 -22 21 30.53474	20.4	928.8	139.8	176.49	14.080	16.966	16.185	15.1	51.7
P	4069693409470220928	18 04 46.58985 -22 21 31.46181	14.0	7161.0	1077.1	31.42	10.630	17.456	0	-22.4	105.2
Ti470020	2047-02-12 08:34:32.18	18 04 47.58995 -22 21 30.88041	38.9	262.0	138.7	356.54	13.502	17.899	16.725	0.9	51.8
Pg	4069693340750743424	18 04 47.58881 -22 21 30.61891	25.3	2019.7	1068.6	31.46	10.630	18.391	0	-22.4	104.6
Ti470021	2047-02-12 22:26:53.50	18 05 02.41962 -22 21 19.23024	56.8	444.6	120.7	177.38	11.590	18.239	16.762	152.3	52.3
P	4069691932010801792	18 05 02.42108 -22 21 19.67439	43.0	3425.7	929.3	32.10	10.623	18.753	0	-22.3	96.2
Ti470022	2047-02-13 11:28:01.54	18 05 16.58943 -22 21 12.12364	18.5	25.6	101.7	358.22	12.780	16.738	15.592	316.6	52.8
Pg	4069691073008024320	18 05 16.58937 -22 21 12.09808	12.8	196.9	782.3	32.52	10.617	17.266	0	-22.3	88.3
Ti470023	2047-02-14 18:16:59.42	18 05 50.57471 -22 21 06.71469	29.4	678.4	69.4	0.32	13.519	17.290	16.133	213.2	54.0
P	4069685270530924160	18 05 50.57498 -22 21 06.03631	20.4	5215.8	533.5	32.67	10.601	17.823	0	-22.3	69.7
Ti470024	2047-02-14 19:39:40.01	18 05 52.09383 -22 21 06.88025	38.7	708.3	69.2	0.42	10.930	17.712	16.596	192.5	54.0
P	4069685197492768512	18 05 52.09420 -22 21 06.17192	24.5	5445.7	531.9	32.65	10.600	18.244	0	-22.3	68.8
Ti470025	2047-02-16 00:20:11.07	18 06 23.26729 -22 21 15.48310	63.7	1060.0	93.0	182.31	13.074	18.251	17.112	121.3	55.1

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	4069683135908465024	18 06 23.26421 -22 21 16.54221	43.5	8135.8	713.3	31.52	10.583	18.745	0	-22.3	51.8
Ti470026	2047-02-16 06:38:48.60	18 06 29.93831 -22 21 21.65216	64.6	1065.9	102.1	2.69	11.983	18.313	16.850	26.4	55.3
P	4069682968428290944	18 06 29.94191 -22 21 20.58747	46.0	8178.0	782.7	31.11	10.579	18.792	0	-22.3	48.1
Ti470027	2047-02-16 10:27:00.73	18 06 33.92241 -22 21 23.40580	42.9	117.7	107.6	2.92	14.429	17.986	16.930	329.2	55.5
P _g	4069682998470759808	18 06 33.92285 -22 21 23.28825	30.3	902.9	825.2	30.84	10.576	18.456	0	-22.3	45.9
Ti470028	2047-02-16 11:57:57.49	18 06 35.50293 -22 21 23.50237	29.8	915.0	109.8	182.99	7.151	15.301	13.520	306.4	55.5
P	4069683002788000896	18 06 35.49949 -22 21 24.41608	22.3	7017.8	842.0	30.72	10.576	15.767	0	-22.3	45.0
Ti470029	2047-02-16 23:59:44.89	18 06 47.79449 -22 21 33.83630	24.2	452.1	126.5	183.62	12.933	16.992	16.205	125.5	56.0
P	4069682590471081728	18 06 47.79243 -22 21 34.28746	17.1	3464.7	968.7	29.72	10.568	17.422	0	-22.4	38.0
Ti470030	2047-02-17 01:39:45.67	18 06 49.46299 -22 21 35.69232	21.1	76.2	128.6	183.69	12.148	16.618	15.459	100.5	56.1
P _{gt}	4069682384312643456	18 06 49.46264 -22 21 35.76835	13.7	583.9	984.8	29.57	10.566	17.042	0	-22.4	37.1
Ti470031	2047-02-17 03:58:02.22	18 06 51.75562 -22 21 38.27625	11.0	423.1	131.4	3.80	10.673	15.437	14.446	65.8	56.2
P	4069682418673025920	18 06 51.75764 -22 21 37.85405	6.8	3242.2	1006.3	29.36	10.565	15.853	0	-22.4	35.7
Ti470032	2047-02-18 01:12:31.72	18 07 12.07458 -22 21 58.09417	20.2	405.8	150.6	184.51	10.477	16.811	15.969	106.4	57.0
P _t	4069729113548017920	18 07 12.07228 -22 21 58.49867	14.6	3104.7	1152.4	27.17	10.550	17.143	0	-22.4	23.6
Ti470033	2047-02-18 12:04:25.61	18 07 21.83648 -22 22 08.99337	6.2	384.3	154.8	184.65	11.366	13.697	13.094	303.0	57.4
P	4069728426353458816	18 07 21.83423 -22 22 09.37639	4.2	2938.3	1183.6	25.95	10.542	13.980	0	-22.4	17.6
Ti470034	2047-02-18 21:31:15.02	18 07 29.96589 -22 22 17.69423	40.8	858.4	155.0	184.63	13.155	18.029	16.992	161.0	57.8
P	4069728563792401792	18 07 29.96089 -22 22 18.54983	29.2	6559.2	1184.2	24.88	10.536	18.266	0	-22.4	12.4
Ti470035	2047-02-18 23:50:15.94	18 07 31.90754 -22 22 19.87449	14.9	852.2	154.5	184.60	13.584	18.090		126.1	57.8
P	4069728559481037952	18 07 31.90262 -22 22 20.72396	12.4	6111.0	1180.5	24.62	10.534	18.316	0	-22.4	11.1
Ti470036	2047-02-19 08:35:10.83	18 07 39.04852 -22 22 29.63423	107.7	1082.1	151.0	4.40	8.443	18.976	16.983	354.6	58.2
P	4069725570186576768	18 07 39.05450 -22 22 28.55534	74.0	8262.3	1153.4	23.65	10.528	19.158	0	-22.4	6.6
Ti470037	2047-02-19 12:34:32.58	18 07 42.22132 -22 22 32.21306	91.4	326.1	148.6	4.26	10.593	18.707	16.918	294.6	58.3
P _{gt}	4069725608837240192	18 07 42.22307 -22 22 31.88785	57.1	2489.4	1134.3	23.22	10.525	18.869	0	-22.4	4.7
Ti470038	2047-02-19 13:16:47.60	18 07 42.78258 -22 22 31.31290	20.4	1148.5	148.1	184.24	11.619	16.888	15.626	284.0	58.4
P	4069725608854881280	18 07 42.77646 -22 22 32.45831	14.1	8767.0	1130.5	23.14	10.525	17.046	0	-22.4	4.4
Ti470039	2047-02-23 06:27:23.40	18 08 43.05689 -22 22 37.64360	29.5	696.2	80.9	175.04	12.917	17.408	16.226	22.9	61.9
P	4069719522868124928	18 08 43.06123 -22 22 38.33722	22.4	5284.8	614.4	18.44	10.466	17.320	0	-22.4	44.8
Ti470040	2047-02-23 08:03:57.66	18 08 44.06837 -22 22 36.46080	83.5	641.3	82.8	174.87	14.751	18.407	17.353	358.7	61.9
P	4069719527181723904	18 08 44.07250 -22 22 37.09954	58.5	4867.5	628.6	18.46	10.465	18.320	0	-22.4	45.6
Ti470041	2047-02-24 06:21:44.68	18 08 58.28476 -22 22 16.97266	34.8	1094.1	114.6	353.01	13.918	17.655	16.708	23.4	62.8
P _t	4069719694666830336	18 08 58.27516 -22 22 15.88669	25.3	8294.2	869.4	19.09	10.452	17.604	0	-22.4	57.1
Ti470042	2047-02-24 07:33:59.22	18 08 59.05021 -22 22 13.77139	7.5	783.7	116.4	172.93	11.644	13.287	12.732	5.3	62.9
P	4069719729026214400	18 08 59.05716 -22 22 14.54912	5.3	5940.6	883.0	19.14	10.452	13.239	0	-22.4	57.7
Ti470043	2047-02-24 09:07:41.36	18 09 00.07644 -22 22 13.01185	12.6	224.7	118.7	352.84	11.074	15.439	14.300	341.8	62.9
P _g	4069719729031408640	18 09 00.07442 -22 22 12.78889	8.8	1703.2	900.4	19.21	10.451	15.395	0	-22.4	58.5
Ti470044	2047-02-25 00:26:24.64	18 09 10.24404 -22 21 53.56510	30.1	646.8	139.6	172.24	13.972	17.620	16.607	111.6	63.5
P _t	4069716842808556672	18 09 10.25034 -22 21 54.20599	22.3	4898.8	1057.6	19.97	10.443	17.618	0	-22.4	66.3
Ti470045	2047-02-25 16:04:30.55	18 09 21.08214 -22 21 32.66373	14.3	774.9	155.7	172.10	13.447	16.306	15.375	236.4	64.2
P	4069718084072276096	18 09 21.08981 -22 21 33.43129	10.4	5864.4	1178.3	20.89	10.434	16.353	0	-22.3	74.2
Ti470046	2047-02-26 02:52:24.71	18 09 28.87717 -22 21 18.11176	42.7	455.4	162.7	172.26	13.845	18.201	17.201	74.1	64.6
P _t	4069717461283867136	18 09 28.88159 -22 21 18.56304	32.6	3444.8	1230.7	21.58	10.429	18.284	0	-22.3	79.7
Ti470047	2047-02-27 12:49:59.78	18 09 55.13613 -22 20 32.64646	25.9	675.9	160.0	173.77	13.713	17.518	16.406	283.4	65.9
P	4066738751218895488	18 09 55.14142 -22 20 33.31835	19.0	5103.6	1208.1	23.77	10.411	17.706	0	-22.3	96.5
Ti470048	2047-02-27 19:39:22.46	18 10 00.72465 -22 20 24.05815	18.3	1103.5	155.0	174.22	13.262	16.640	15.578	180.8	66.2
P	4066738785578591360	18 10 00.73267 -22 20 25.15599	13.7	8329.3	1169.6	24.17	10.408	16.845	0	-22.3	99.9
Ti470049	2047-02-28 07:34:35.53	18 10 10.72272 -22 20 11.15253	35.6	985.6	143.0	175.07	11.724	18.030	16.532	1.5	66.6
P	4066738918656316160	18 10 10.72883 -22 20 12.13451	27.5	7435.4	1078.2	24.80	10.401	18.264	0	-22.3	105.7
Ti470050	2047-02-28 15:32:32.06	18 10 17.55882 -22 20 05.30871	40.0	843.9	133.0	355.68	11.659	18.145	16.647	241.7	66.9

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4066738197101832448	18 10 17.55423 -22 20 04.46719	30.7	6363.6	1002.4	25.16	10.397	18.394	0	-22.3	109.6
Ti470051	2047-02-28 16:04:32.61	18 10 18.01901 -22 20 04.71159	28.5	727.2	132.3	355.72	14.385	17.736	16.794	233.7	66.9
Pt	4066738197094853632	18 10 18.01510 -22 20 03.98643	20.9	5483.3	997.0	25.18	10.397	17.986	0	-22.3	109.8
Ti470052	2047-02-28 18:49:45.96	18 10 20.39907 -22 20 01.20824	34.5	366.1	128.5	175.94	10.737	17.929	16.792	192.3	67.1
Pt	4066738231461580416	18 10 20.40094 -22 20 01.57338	25.4	2759.8	968.4	25.29	10.395	18.184	0	-22.3	111.2
Ti470053	2047-02-28 21:13:37.28	18 10 22.48311 -22 19 58.69411	49.1	875.8	125.1	176.13	12.697	18.673	17.131	156.3	67.1
P	4066738235800758784	18 10 22.48737 -22 19 59.56792	37.1	6602.1	942.8	25.39	10.394	18.932	0	-22.3	112.4
Ti470054	2047-03-01 05:29:23.41	18 10 29.73546 -22 19 53.18473	34.1	185.5	112.9	176.82	11.273	17.804	16.278	32.0	67.5
Pgt	4066739541492583808	18 10 29.73620 -22 19 53.36994	23.2	1397.7	850.4	25.66	10.389	18.074	0	-22.3	116.4
Ti470055	2047-03-02 00:22:10.36	18 10 46.54261 -22 19 44.37044	7.7	677.8	85.4	358.44	12.654	15.037	14.275	108.1	68.2
Pt	4066736620915279232	18 10 46.54128 -22 19 43.69293	5.8	5101.4	642.1	25.98	10.378	15.321	0	-22.3	125.6
Ti470056	2047-03-02 02:58:13.46	18 10 48.87138 -22 19 43.10851	47.7	232.3	82.1	358.66	10.326	18.197	16.523	69.0	68.3
Pg	4066736414733576448	18 10 48.87098 -22 19 42.87630	35.1	1748.0	617.7	25.99	10.376	18.481	0	-22.3	126.9
Ti470057	2047-03-02 04:34:34.59	18 10 50.31098 -22 19 43.08075	63.8	644.7	80.3	358.81	10.517	18.476	16.814	44.8	68.3
Pt	4066736788352659712	18 10 50.31001 -22 19 42.43622	47.1	4851.1	603.7	25.99	10.375	18.761	0	-22.3	127.7
Ti470058	2047-03-02 16:26:52.62	18 11 00.94099 -22 19 40.62971	5.2	81.8	71.1	179.85	10.173	13.748	12.758	226.3	68.8
Pgt	4066736101150859648	18 11 00.94100 -22 19 40.71155	4.0	615.4	534.5	25.89	10.368	14.029	0	-22.3	133.5
Ti470059*	2047-03-02 21:38:53.43	18 11 05.58016 -22 19 39.89442	41.2	908.7	70.4	180.31	13.188	17.499	16.398	148.1	69.0
P	4066736066791118720	18 11 05.57980 -22 19 40.80316	27.0	6831.1	528.5	25.79	10.364	17.775	0	-22.3	136.0
Ti470060	2047-03-03 03:17:58.74	18 11 10.59696 -22 19 41.26552	25.4	214.0	72.0	180.80	13.475	17.281	16.358	63.1	69.2
Pgt	4066741736147948416	18 11 10.59674 -22 19 41.47952	16.9	1608.2	540.3	25.63	10.361	17.550	0	-22.3	138.8
Ti470061	2047-03-03 11:44:26.12	18 11 18.02353 -22 19 43.08231	29.9	496.7	78.6	181.53	9.754	16.896	15.218	296.2	69.5
P	4066741706155568256	18 11 18.02257 -22 19 43.57880	20.9	3730.0	590.2	25.30	10.355	17.151	0	-22.3	142.9
Ti470062	2047-03-03 16:44:52.85	18 11 22.37695 -22 19 46.00499	24.7	588.3	84.5	1.95	13.689	17.216	16.214	220.9	69.7
P	4066730058205218944	18 11 22.37840 -22 19 45.41702	16.2	4416.8	633.6	25.06	10.351	17.461	0	-22.3	145.4
Ti470063	2047-03-04 08:40:10.69	18 11 35.89712 -22 19 54.61367	16.7	676.1	107.3	3.24	12.654	16.359	15.594	341.5	70.4
P	4066730126923494272	18 11 35.89987 -22 19 53.93861	11.0	5070.6	803.8	24.05	10.340	16.559	0	-22.3	153.3
Ti470064	2047-03-04 15:24:58.59	18 11 41.43983 -22 19 59.56257	13.1	930.4	117.3	3.75	12.757	16.112	15.084	240.0	70.6
P	4066729405368906496	18 11 41.44421 -22 19 58.63413	9.4	6974.3	878.7	23.52	10.335	16.288	0	-22.3	156.7
Ti470065	2047-03-04 16:21:58.53	18 11 42.22008 -22 19 58.22314	78.5	1119.6	118.7	183.81	12.956	18.950	17.107	225.8	70.6
P	4066729401009052544	18 11 42.21472 -22 19 59.34028	52.3	8391.9	889.0	23.44	10.334	19.122	0	-22.3	157.1
Ti470066	2047-03-04 18:06:13.85	18 11 43.62162 -22 19 59.76791	63.7	892.8	121.2	183.94	11.568	17.833	16.103	199.6	70.7
P	4066729504081070080	18 11 43.61720 -22 20 00.65863	41.1	6691.2	907.6	23.29	10.333	17.998	0	-22.3	158.0
Ti470067	2047-03-05 04:55:01.23	18 11 52.13326 -22 20 09.78539	30.2	233.5	135.5	4.66	7.487	15.499	13.775	37.0	71.1
Pgt	4066729267929798656	18 11 52.13463 -22 20 09.55266	21.8	1748.6	1014.5	22.29	10.325	15.617	0	-22.3	163.5
Ti470068	2047-03-05 05:53:05.17	18 11 52.87833 -22 20 10.39266	50.1	6.2	136.7	184.71	12.894	18.266	16.975	22.5	71.2
Pgt	4066729263570123776	18 11 52.87829 -22 20 10.39887	37.7	46.6	1023.1	22.20	10.324	18.379	0	-22.3	163.9
Ti470069	2047-03-05 06:36:32.17	18 11 53.43409 -22 20 10.80076	6.8	236.7	137.6	184.76	10.987	14.529	13.545	11.6	71.2
Pgt	4066729263562879872	18 11 53.43268 -22 20 11.03668	5.3	1772.6	1029.5	22.13	10.324	14.639	0	-22.3	164.3
Ti470070	2047-03-05 14:35:07.11	18 11 59.41213 -22 20 19.05254	17.4	770.2	146.0	5.21	11.097	15.893	14.524	251.6	71.5
P	406672727122197760	18 11 59.41717 -22 20 18.28555	14.5	5763.2	1092.1	21.31	10.318	15.962	0	-22.3	168.3
Ti470071	2047-03-05 23:25:05.79	18 12 05.77152 -22 20 26.74701	23.1	103.0	153.1	5.61	9.606	16.292	14.737	118.8	71.9
Pgt	4066727687381621120	18 12 05.77224 -22 20 26.64452	18.8	770.1	1144.3	20.35	10.311	16.311	0	-22.3	172.7
Ti470072	2047-03-06 04:51:31.39	18 12 09.52951 -22 20 33.04289	13.0	1182.8	156.1	5.80	14.191	16.024	15.292	37.0	72.1
P	4066727584302347264	18 12 09.53812 -22 20 31.86615	10.1	8841.3	1166.6	19.74	10.307	16.009	0	-22.3	175.2
Ti470073	2047-03-06 14:06:47.59	18 12 15.67266 -22 20 41.28766	58.8	603.9	158.8	6.00	11.684	18.402	16.459	257.8	72.4
Pt	4066727549942519168	18 12 15.67721 -22 20 40.68705	44.7	4511.1	1186.0	18.67	10.299	18.327	0	-22.3	177.0
Ti470074	2047-03-06 21:55:10.63	18 12 20.59384 -22 20 47.61994	95.2	272.2	158.6	186.04	11.837	18.890	17.268	140.4	72.7
Pg	4066727167626146176	18 12 20.59178 -22 20 47.89059	69.8	2031.7	1183.6	17.77	10.293	18.761	0	-22.3	174.1
Ti470075	2047-03-07 02:02:59.54	18 12 23.10357 -22 20 50.37721	45.7	1182.9	157.5	186.00	11.753	17.949	16.459	78.3	72.9

Table 5 continued on next page

Table 5 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	4066727171958495360	18 12 23.09466 -22 20 51.55364	32.9	8827.9	1175.4	17.29	10.290	17.791	0	-22.3	172.1
Ti470076	2047-03-07 16:07:44.53	18 12 31.13834 -22 21 02.08080	16.9	826.7	149.3	185.52	10.295	15.955	14.560	226.6	73.5
P	4066727034519073536	18 12 31.13260 -22 21 02.90364	13.5	6162.8	1113.2	15.72	10.279	15.694	0	-22.3	164.7
Ti470077	2047-03-07 17:51:51.16	18 12 32.06906 -22 21 04.58632	46.1	435.6	147.8	5.42	12.585	18.101	16.613	200.5	73.5
P	4066727030187213824	18 12 32.07202 -22 21 04.15268	32.5	3246.9	1102.0	15.53	10.277	17.826	0	-22.3	163.7
Ti470078	2047-03-07 23:32:37.57	18 12 35.06702 -22 21 08.75235	29.1	787.3	142.3	5.03	12.733	17.587	16.289	115.1	73.7
P	4066726961461705728	18 12 35.07200 -22 21 07.96813	21.2	5865.6	1060.7	14.94	10.273	17.270	0	-22.3	160.6
Ti470079	2047-03-09 03:06:17.79	18 12 48.18515 -22 21 18.19602	55.5	1128.5	105.4	181.59	13.212	18.310		60.6	74.8
P	4090699033732748288	18 12 48.18290 -22 21 19.32408	43.0	8390.9	784.3	12.57	10.252	17.806	0	-22.3	145.0
Ti470080	2047-03-09 09:42:56.43	18 12 51.03211 -22 21 21.00403	13.4	983.2	95.7	0.41	12.665	15.942	15.197	321.1	75.1
P	4090699033732733440	18 12 51.03261 -22 21 20.02084	9.3	7307.3	711.6	12.15	10.247	15.402	0	-22.3	141.2
Ti470081	2047-03-10 05:13:44.67	18 12 58.99639 -22 21 16.82391	42.7	263.8	74.0	176.43	12.397	18.032	16.607	27.7	75.9
Pgt	4090698342174259456	18 12 58.99758 -22 21 17.08721	31.6	1958.0	549.2	11.34	10.233	17.416	0	-22.3	129.6
Ti470082	2047-03-10 12:59:53.64	18 13 02.04159 -22 21 13.34357	60.9	497.5	71.6	174.79	13.245	18.621	17.144	270.8	76.2
P	4090698342174262912	18 13 02.04485 -22 21 13.83901	46.5	3690.5	531.4	11.19	10.228	17.990	0	-22.3	124.9
Ti470083	2047-03-10 16:38:19.76	18 13 03.45832 -22 21 11.74781	26.1	172.3	72.1	174.04	11.928	17.104	15.691	216.1	76.4
Pgt	4090698720125255296	18 13 03.45961 -22 21 11.91916	19.2	1277.6	534.9	11.15	10.225	16.470	0	-22.3	122.7
Ti470084	2047-03-11 04:27:56.46	18 13 08.04508 -22 21 05.12104	24.5	1131.6	80.5	351.79	12.530	17.326	16.104	38.2	76.8
P	4090698685771656704	18 13 08.03343 -22 21 04.00108	18.1	8385.5	596.7	11.17	10.218	16.694	0	-22.3	115.5
Ti470085	2047-03-11 10:32:26.16	18 13 10.37556 -22 20 57.86231	17.3	1138.6	87.8	170.78	10.238	16.356	14.854	306.8	77.1
P	4090698483976854144	18 13 10.38871 -22 20 58.98622	13.0	8434.5	651.1	11.25	10.214	15.731	0	-22.3	111.7
Ti470086	2047-03-11 16:36:54.58	18 13 12.75125 -22 20 52.56819	7.4	820.5	96.4	169.90	13.042	14.951	14.321	215.5	77.3
P	4090698587056061440	18 13 12.76162 -22 20 53.37596	5.5	6075.7	714.3	11.39	10.210	14.339	0	-22.3	108.0
Ti470087	2047-03-11 20:20:13.11	18 13 14.23833 -22 20 50.39203	59.1	742.3	102.0	349.43	13.594	18.209	16.955	159.5	77.5
Pt	4090698587056471936	18 13 14.22851 -22 20 49.66236	44.8	5495.2	755.6	11.49	10.208	17.607	0	-22.3	105.7
Ti470088	2047-03-12 20:28:00.76	18 13 24.12096 -22 20 20.80897	68.7	524.7	138.0	167.65	13.392	18.440	17.125	156.6	78.4
P	4090697075227929216	18 13 24.12905 -22 20 21.32150	49.8	3878.7	1020.5	12.49	10.193	17.929	0	-22.3	90.6
Ti470089	2047-03-12 22:15:14.85	18 13 24.89373 -22 20 18.76336	63.4	225.5	140.4	167.61	12.950	18.403	17.045	129.7	78.5
Pg	4090697105223718656	18 13 24.89722 -22 20 18.98362	47.7	1667.0	1037.8	12.59	10.192	17.900	0	-22.3	89.5
Ti470090	2047-03-13 00:19:48.88	18 13 25.77962 -22 20 15.16016	29.8	1101.9	143.0	167.57	12.514	17.365	16.106	98.5	78.6
P	4090697109587660288	18 13 25.79672 -22 20 16.23618	21.5	8143.8	1057.3	12.70	10.191	16.872	0	-22.3	88.2
Ti470091	2047-03-13 21:19:58.01	18 13 35.39022 -22 19 47.99362	72.4	930.9	163.6	347.89	13.040	18.867	17.409	142.7	79.4
Pt	4090697178233934336	18 13 35.37614 -22 19 47.08341	53.1	6872.1	1207.8	13.92	10.178	18.474	0	-22.3	75.0
Ti470092	2047-03-13 23:14:52.80	18 13 36.29491 -22 19 44.24524	16.5	110.8	164.8	167.97	11.306	16.416	15.110	113.9	79.5
Pgt	4090697173937211904	18 13 36.29658 -22 19 44.35364	11.6	818.0	1216.7	14.04	10.177	16.032	0	-22.3	73.8
Ti470093	2047-03-14 02:28:24.75	18 13 37.87628 -22 19 40.46432	60.7	729.8	166.6	348.14	13.259	18.362	16.934	65.3	79.6
P	4090697350105773568	18 13 37.86548 -22 19 39.75005	44.4	5386.2	1229.7	14.24	10.175	17.994	0	-22.3	71.8
Ti470094	2047-03-14 03:37:11.63	18 13 38.42292 -22 19 37.72416	16.2	397.8	167.2	168.21	11.370	16.151	14.908	48.1	79.7
Pt	4090697350106235136	18 13 38.42878 -22 19 38.11358	11.1	2935.7	1233.8	14.32	10.175	15.788	0	-22.3	71.1
Ti470095	2047-03-14 17:48:19.91	18 13 45.65902 -22 19 18.58079	28.6	549.1	170.4	349.19	11.428	17.359	15.903	194.8	80.2
P	4090697311376195712	18 13 45.65160 -22 19 18.04148	20.2	4048.5	1256.4	15.21	10.167	17.062	0	-22.3	62.3
Ti470096	2047-03-15 00:19:39.08	18 13 49.13447 -22 19 09.40663	31.2	347.8	169.6	349.75	9.476	16.447	14.878	96.7	80.5
Pgt	4090697418751893248	18 13 49.13000 -22 19 09.06438	21.6	2563.6	1249.5	15.62	10.163	16.179	0	-22.3	58.2
Ti470097	2047-03-16 09:30:57.27	18 14 08.28145 -22 18 28.92799	22.1	115.6	143.8	173.20	12.603	16.769	15.818	317.6	81.8
Pgt	4090702430977302528	18 14 08.28243 -22 18 29.04283	15.8	850.8	1057.5	17.42	10.144	16.619	0	-22.3	38.1

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

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

Table 6. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 6 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Ti470098 ^d	2047-03-16 13:47:30.78	18 14 10.91097 -22 18 25.43005	122.8	569.4	138.3	353.70	13.284	18.951	17.001	253.3	82.0
Pt	4090702400923003648	18 14 10.90646 -22 18 24.86409	86.6	4188.0	1016.4	17.60	10.141	18.812	0	-22.3	35.6
Ti470099 ^d	2047-03-16 13:52:09.38	18 14 10.95191 -22 18 24.49847	148.4	294.3	138.2	173.71	13.284	18.901	16.962	252.1	82.0
Pg	4090702400923003776	18 14 10.95423 -22 18 24.79098	94.9	2164.5	1015.6	17.60	10.141	18.762	0	-22.3	35.5
Ti470100	2047-03-17 04:47:19.44	18 14 20.33060 -22 18 13.58099	18.4	1080.5	116.3	355.50	13.258	16.513	15.523	27.7	82.5
Pt	4090690993552410112	18 14 20.32449 -22 18 12.50388	13.8	7939.7	853.7	18.11	10.132	16.405	0	-22.3	26.8
Ti470101	2047-03-17 06:36:43.42	18 14 21.48609 -22 18 10.80298	43.4	461.1	113.4	175.72	12.550	17.713	16.354	0.3	82.6
Pt	4090690989184454656	18 14 21.48857 -22 18 11.26284	31.0	3388.3	832.7	18.16	10.131	17.608	0	-22.3	25.7
Ti470102	2047-03-17 13:50:21.58	18 14 26.13787 -22 18 08.04873	51.2	1111.7	102.1	356.61	12.689	18.130	16.714	251.6	82.9
P	4090690890407806592	18 14 26.13313 -22 18 06.93899	38.9	8164.7	749.5	18.30	10.126	18.034	0	-22.3	21.5
Ti470103	2047-03-17 20:06:10.34	18 14 30.19224 -22 18 05.16686	46.2	1183.5	92.7	357.38	13.317	18.161	16.964	157.4	83.1
P	4090690920470928512	18 14 30.18835 -22 18 03.98460	35.0	8688.6	680.3	18.38	10.122	18.070	0	-22.3	17.9
Ti470104	2047-03-18 00:46:30.17	18 14 33.22627 -22 18 03.00472	35.9	731.3	86.3	357.97	13.194	17.860	16.613	87.2	83.3
P	4090690851751456128	18 14 33.22440 -22 18 02.27389	26.8	5367.1	632.9	18.41	10.119	17.770	0	-22.3	15.3
Ti470105	2047-03-18 05:43:49.86	18 14 36.44753 -22 18 00.14289	35.1	784.9	80.4	178.59	12.339	17.801	16.452	12.7	83.5
P	4090692329220487552	18 14 36.44893 -22 18 00.92755	25.4	5758.7	589.2	18.41	10.116	17.711	0	-22.3	12.5
Ti470106	2047-03-18 07:41:21.16	18 14 37.72320 -22 18 00.38944	17.0	139.9	78.4	178.83	10.392	16.065	14.664	343.2	83.6
Pgt	4090691573300030592	18 14 37.72340 -22 18 00.52929	12.8	1026.2	574.4	18.40	10.115	15.975	0	-22.3	11.5
Ti470107	2047-03-18 16:01:30.23	18 14 43.13595 -22 17 59.95569	18.2	269.9	72.7	359.88	11.611	16.826	15.751	217.8	83.9
Pgt	4090691543308087424	18 14 43.13591 -22 17 59.68580	13.3	1978.8	532.2	18.29	10.109	16.729	0	-22.3	7.0
Ti470108	2047-03-18 17:13:37.28	18 14 43.91369 -22 17 59.43705	5.0	240.7	72.3	180.03	11.816	13.166	12.724	199.8	84.0
Pgt	4090691543308083840	18 14 43.91368 -22 17 59.67774	3.4	1764.6	529.3	18.27	10.108	13.068	0	-22.3	6.4
Ti470109	2047-03-19 10:00:18.66	18 14 54.63075 -22 18 02.08590	27.5	406.8	79.0	182.15	12.730	17.696	16.401	307.5	84.6
Pt	4090691401507294464	18 14 54.62965 -22 18 02.49246	21.2	2979.2	577.7	17.74	10.096	17.566	0	-22.3	4.5
Ti470110	2047-03-19 12:26:23.88	18 14 56.15525 -22 18 03.02047	30.9	321.0	81.6	182.45	11.888	17.740	16.354	270.8	84.7
Pg	4090691779464418688	18 14 56.15426 -22 18 03.34115	23.2	2349.9	596.7	17.63	10.095	17.603	0	-22.3	5.6
Ti470111	2047-03-19 15:35:00.48	18 14 58.10352 -22 18 05.76710	10.7	1174.4	85.4	2.84	13.286	15.869	15.019	223.6	84.8
P	4090688828819188608	18 14 58.10771 -22 18 04.59412	8.1	8596.4	624.3	17.47	10.092	15.723	0	-22.3	7.2
Ti470112	2047-03-19 20:47:37.89	18 15 01.30405 -22 18 07.11161	23.8	62.7	92.5	3.49	12.895	17.342	16.132	145.2	85.0
Pgt	4090688863247948544	18 15 01.30432 -22 18 07.04900	18.4	459.0	675.9	17.18	10.088	17.177	0	-22.3	9.9
Ti470113	2047-03-20 08:21:32.93	18 15 08.18042 -22 18 14.36066	17.2	299.1	110.0	4.92	13.081	18.832	0	331.3	85.5
Pgt	4090688687118797824	18 15 08.18227 -22 18 14.06262	16.1	2186.9	803.6	16.40	10.080	18.617	0	-22.3	16.0
Ti470114 ^d	2047-03-20 13:50:55.48	18 15 11.32749 -22 18 17.67700	7.2	395.1	118.5	185.58	12.153	17.140	0	248.7	85.7
P	4090688691380129408	18 15 11.32472 -22 18 18.07027	6.6	2887.5	865.0	15.97	10.075	16.896	0	-22.3	18.9
Ti470115* ^a	2047-03-20 13:53:37.04	18 15 11.34730 -22 18 18.49490	21.4	392.1	118.5	5.59	12.153	16.522	14.956	248.0	85.7
Pt	4090688691449196288	18 15 11.35005 -22 18 18.10465	15.8	2865.3	865.5	15.97	10.075	16.278	0	-22.3	18.9
Ti470116 ^d	2047-03-20 22:39:19.86	18 15 16.18312 -22 18 24.49144	33.2	786.1	131.3	186.63	13.331	17.950	16.411	116.3	86.0
Pt	4090688657089430656	18 15 16.17658 -22 18 25.27227	26.3	5740.3	958.2	15.21	10.069	17.652	0	-22.3	23.5
Ti470117 ^d	2047-03-20 22:40:34.11	18 15 16.19002 -22 18 25.00662	66.6	285.4	131.3	186.63	13.331	18.790	0	116.0	86.1
Pgt	4090688657020354432	18 15 16.18765 -22 18 25.29013	52.1	2084.2	958.4	15.21	10.069	18.492	0	-22.3	23.6
Ti470118*	2047-03-21 07:02:10.76	18 15 20.55459 -22 18 32.85127	132.4	1.7	142.1	7.82	13.475	18.130	16.342	350.2	86.4
Pgt	4090711368820125440	18 15 20.55461 -22 18 32.84959	115.3	12.3	1036.3	14.40	10.062	17.773	0	-22.3	28.0
Ti470119 ^d	2047-03-21 23:24:48.63	18 15 28.34703 -22 18 50.09529	63.8	1159.8	157.3	9.31	12.894	18.911	0	103.9	87.0
P	4090711124028406272	18 15 28.36056 -22 18 48.95075	62.9	8452.9	1146.2	12.65	10.049	18.414	0	-22.3	36.5
Ti470120* ^a	2047-03-21 23:29:15.91	18 15 28.38208 -22 18 49.99669	99.8	983.8	157.4	9.32	12.894	17.152	15.867	102.8	87.0
P	4090711123997148544	18 15 28.39356 -22 18 49.02588	76.3	7169.9	1146.6	12.65	10.049	16.654	0	-22.3	36.6
Ti470121	2047-03-23 00:34:48.63	18 15 38.23496 -22 19 15.07035	9.2	1157.2	161.9	11.18	11.387	15.139	14.103	85.5	88.0

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
P	4090523524198893312	18 15 38.25113 -22 19 13.93515	7.4	8416.2	1177.7	9.75	10.028	14.359	0	-22.3	49.5
Ti470122	2047-03-23 06:45:04.00	18 15 40.26302 -22 19 20.64986	11.3	1118.6	159.3	11.38	11.964	15.756	14.662	352.6	88.3
P	4090523451108232576	18 15 40.27893 -22 19 19.55328	8.5	8131.5	1158.2	9.04	10.023	14.893	0	-22.3	52.7
Ti470123*	2047-03-24 05:35:38.55	18 15 46.50460 -22 19 36.59188	13.6	53.9	138.3	190.41	11.046	15.051	13.831	9.1	89.2
Pgt	4090523627234663040	18 15 46.50390 -22 19 36.64487	9.4	390.9	1003.2	6.58	10.005	13.844	0	-22.3	64.2
Ti470124	2047-03-24 16:31:35.53	18 15 48.84723 -22 19 41.52296	9.3	583.7	123.2	188.42	11.757	15.585	14.514	204.7	89.6
Pt	4090523554185592832	18 15 48.84107 -22 19 42.10038	6.7	4231.8	893.0	5.57	9.996	14.197	0	-22.3	69.8
Ti470125	2047-03-27 04:58:49.32	18 15 57.30652 -22 19 31.34832	16.7	90.2	83.4	334.62	14.271	16.909	16.011	15.4	92.1
Pgt	4090522935708856192	18 15 57.30373 -22 19 31.26686	12.5	650.8	602.0	3.54	9.952	15.028	0	-22.3	99.8
Ti470126	2047-03-27 10:24:51.90	18 15 57.95986 -22 19 27.66533	27.5	847.7	90.3	332.39	14.028	17.762	16.688	293.7	92.3
Pt	4090522935712169088	18 15 57.93154 -22 19 26.91418	20.9	6116.4	651.8	3.66	9.948	15.919	0	-22.3	102.5
Ti470127	2047-03-28 14:03:15.70	18 16 01.44123 -22 18 57.11892	19.6	1094.6	133.1	148.99	12.869	17.105	15.941	238.0	93.5
P	4090522970068651136	18 16 01.48187 -22 18 58.05701	15.1	7883.7	958.6	4.71	9.931	15.535	0	-22.3	116.1
Ti470128* ^a	2047-03-29 04:28:55.37	18 16 03.79113 -22 18 40.49846	74.7	964.4	152.6	330.76	13.412	17.753	16.333	21.0	94.0
Pt	4090524447537428352	18 16 03.75719 -22 18 39.65695	55.2	6940.0	1097.8	5.44	9.922	16.338	0	-22.3	123.2
Ti470129 ^d	2047-03-29 04:30:42.54	18 16 03.76598 -22 18 39.70907	23.1	105.0	152.6	330.77	13.412	18.822	0	20.5	94.0
Pgt	4090524451868878720	18 16 03.76228 -22 18 39.61741	21.6	755.9	1098.1	5.44	9.922	17.408	0	-22.3	123.2
Ti470130	2047-03-29 08:58:10.47	18 16 04.51540 -22 18 32.89491	28.0	848.4	157.6	151.57	13.860	17.709	16.615	313.5	94.2
P	4090524378817962112	18 16 04.54451 -22 18 33.64102	21.5	6103.8	1133.7	5.68	9.919	16.342	0	-22.3	125.4
Ti470131	2047-03-29 21:31:31.93	18 16 07.00264 -22 18 17.24675	5.9	948.8	168.5	334.24	10.597	14.347	13.316	124.6	94.7
Pt	4090524417551685248	18 16 06.97293 -22 18 16.39226	4.2	6820.6	1211.1	6.38	9.912	13.106	0	-22.3	131.6
Ti470132	2047-03-30 17:42:56.12	18 16 11.61623 -22 17 48.07609	22.7	538.8	175.0	159.11	13.794	17.386	16.314	181.0	95.5
P	4090524520630858112	18 16 11.63007 -22 17 48.57952	17.5	3869.2	1256.2	7.54	9.900	16.327	0	-22.3	141.5
Ti470133	2047-03-30 22:08:50.32	18 16 12.79382 -22 17 43.16497	13.0	535.2	174.5	340.21	12.257	16.367	15.221	114.3	95.7
Pt	4090524550616737536	18 16 12.78076 -22 17 42.66134	10.0	3842.2	1251.9	7.79	9.898	15.343	0	-22.3	143.7
Ti470134	2047-03-30 23:43:16.11	18 16 13.20856 -22 17 40.90469	65.8	336.0	174.1	340.60	13.073	18.180	16.580	90.6	95.8
Pgt	4090524554990579072	18 16 13.20052 -22 17 40.58779	60.3	2411.6	1249.2	7.88	9.897	17.169	0	-22.3	144.5
Ti470135	2047-03-31 06:22:30.35	18 16 15.01298 -22 17 30.89664	5.6	1176.1	171.6	162.24	10.397	14.152	13.116	350.6	96.1
P	4090524344458327680	18 16 15.03882 -22 17 32.01676	4.4	8439.1	1230.8	8.25	9.893	13.190	0	-22.3	147.7
Ti470136	2047-04-01 07:56:01.74	18 16 22.99419 -22 17 03.04343	14.5	237.5	148.7	168.39	12.482	16.594	15.472	326.2	97.1
Pgt	4090524692429413760	18 16 22.99763 -22 17 03.27604	11.4	1701.3	1064.4	9.49	9.878	15.785	0	-22.3	160.4
Ti470137	2047-04-01 14:39:59.72	18 16 25.30831 -22 16 57.55111	28.8	400.8	139.6	349.95	13.356	17.612	16.306	224.9	97.3
Pt	4090524791134962176	18 16 25.30328 -22 16 57.15650	21.8	2870.0	999.0	9.75	9.874	16.832	0	-22.3	163.8
Ti470138	2047-04-01 17:10:31.91	18 16 26.16771 -22 16 53.94109	5.4	1134.8	136.0	170.53	10.312	14.187	13.117	187.2	97.4
P	4090524795508587136	18 16 26.18117 -22 16 55.06039	4.0	8125.5	973.0	9.84	9.873	13.417	0	-22.3	165.1
Ti470139	2047-04-01 22:48:38.42	18 16 28.17956 -22 16 50.10070	22.8	644.6	127.5	171.81	12.855	17.430	16.254	102.4	97.7
Pt	4090521840571058176	18 16 28.18617 -22 16 50.73871	18.6	4613.8	911.6	10.02	9.869	16.680	0	-22.3	167.9
Ti470140	2047-04-02 00:05:48.11	18 16 28.64107 -22 16 48.96712	53.7	870.9	125.5	172.10	13.656	18.217	16.778	83.1	97.7
P	4090521836316334464	18 16 28.64969 -22 16 49.82977	41.8	6233.4	897.1	10.06	9.868	17.471	0	-22.3	168.5
Ti470141* ^a	2047-04-03 02:31:56.27	18 16 38.50209 -22 16 38.54232	21.8	467.4	85.1	358.01	11.925	16.130	14.927	45.5	98.8
Pt	4090527681728462720	18 16 38.50092 -22 16 38.07521	18.0	3339.6	607.7	10.44	9.852	15.424	0	-22.3	176.5
Ti470142 ^d	2047-04-03 02:39:30.96	18 16 38.55153 -22 16 39.17682	20.1	1125.1	85.0	358.04	11.925	18.613	0	43.6	98.8
P	4090527677471912704	18 16 38.54876 -22 16 38.05235	19.1	8039.1	606.6	10.44	9.852	17.907	0	-22.3	176.4
Ti470143	2047-04-04 00:15:03.01	18 16 46.64371 -22 16 39.88978	19.7	940.0	74.4	2.93	11.120	16.699	15.004	78.9	99.6
P	4090527544289406976	18 16 46.64717 -22 16 38.95097	14.8	6706.7	530.3	10.11	9.837	15.958	0	-22.3	165.9
Ti470144	2047-04-04 07:42:05.61	18 16 49.35034 -22 16 40.92963	40.6	515.8	79.4	184.69	13.257	18.164	16.744	326.8	99.9
Pt	4090526784003070976	18 16 49.34730 -22 16 41.44373	31.3	3678.1	565.8	9.85	9.832	17.394	0	-22.3	161.9
Ti470145	2047-04-04 20:46:49.82	18 16 53.87410 -22 16 47.51836	8.3	841.2	96.0	187.96	13.244	14.972	14.374	130.1	100.4
P	4090526822734811648	18 16 53.86571 -22 16 48.35141	6.0	5992.1	683.1	9.21	9.822	14.130	0	-22.3	154.8
Ti470146	2047-04-05 02:33:59.14	18 16 55.74802 -22 16 52.39433	15.4	35.8	104.9	9.51	11.759	16.491	15.252	43.1	100.7

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4090526754015310720	18 16 55.74845 -22 16 52.35902	11.7	254.9	746.5	8.85	9.818	15.606	0	-22.3	151.6
Ti470147*	2047-04-06 01:08:22.95	18 17 02.18096 -22 17 12.89972	37.6	344.6	139.4	16.58	12.848	17.488	16.150	63.6	101.6
Pg	4090526921473376640	18 17 02.18805 -22 17 12.56949	26.2	2449.1	989.9	7.10	9.801	16.364	0	-22.3	138.9
Ti470148	2047-04-06 14:14:06.83	18 17 05.13166 -22 17 26.39117	8.0	323.5	154.7	202.08	13.228	14.985	14.365	226.6	102.1
Pgt	4090526891454141952	18 17 05.12290 -22 17 26.69097	5.5	2297.3	1097.6	5.87	9.790	13.654	0	-22.3	131.3
Ti470149	2047-04-07 04:13:41.96	18 17 07.48219 -22 17 43.23300	17.5	667.7	164.8	30.40	14.198	16.906	15.994	16.2	102.7
Pt	4090515136071538432	18 17 07.50653 -22 17 42.65711	12.9	4735.6	1168.3	4.48	9.779	15.281	0	-22.3	123.0
Ti470150	2047-04-07 08:24:59.26	18 17 08.02810 -22 17 48.14707	32.3	820.1	166.5	33.75	13.718	17.949	16.738	313.2	102.8
P	4090515140420616192	18 17 08.06093 -22 17 47.46515	25.2	5814.6	1179.4	4.06	9.776	16.217	0	-22.3	120.5
Ti470151	2047-04-12 05:34:23.53	18 16 59.46226 -22 18 32.72899	15.6	42.9	87.7	195.87	13.569	16.742	15.741	351.0	107.7
Pgt	4090526474761999360	18 16 59.46141 -22 18 32.77024	11.7	301.4	616.6	-4.87	9.689	15.208	0	-22.3	47.0
Ti470152	2047-04-12 21:50:26.74	18 16 56.73360 -22 18 19.13541	28.7	420.3	112.3	202.66	13.732	17.876	16.708	106.3	108.3
Pt	4090526509121759232	18 16 56.72193 -22 18 19.52323	21.9	2950.2	788.5	-4.74	9.679	16.312	0	-22.3	36.9
Ti470153	2047-04-14 12:31:54.21	18 16 51.61293 -22 17 35.11809	34.4	242.9	166.5	224.06	13.547	17.992	16.817	244.3	109.9
Pgt	4090526719655584512	18 16 51.60076 -22 17 35.29266	26.9	1701.3	1165.7	-3.58	9.657	16.124	0	-22.3	13.5
Ti470154	2047-04-16 22:52:50.68	18 16 50.01030 -22 16 24.33732	20.6	1188.9	161.6	120.90	12.601	17.177	15.985	86.7	112.3
P	4090527574273816832	18 16 50.08380 -22 16 24.94787	16.2	8300.2	1126.5	2.18	9.626	14.771	0	-22.3	20.0
Ti470155	2047-04-18 01:07:42.00	18 16 51.77436 -22 16 04.11960	51.9	869.4	124.5	155.60	13.611	18.440	17.126	51.9	113.4
P	4090527578649115904	18 16 51.80023 -22 16 04.91140	38.7	6060.5	866.2	2.52	9.611	16.189	0	-22.2	34.0
Ti470156	2047-04-18 09:12:47.16	18 16 52.52185 -22 16 00.98170	7.4	217.3	111.1	163.66	12.497	14.813	14.130	290.3	113.7
Pgt	4090526822734868608	18 16 52.52626 -22 16 01.19023	5.4	1514.1	772.9	2.62	9.607	12.606	0	-22.2	38.3
Ti470157	2047-04-18 12:37:22.29	18 16 52.85248 -22 16 00.12116	35.9	118.5	105.5	346.83	13.199	18.037	16.794	239.0	113.8
Pg	4090527200691987840	18 16 52.85053 -22 16 00.00576	27.4	825.6	733.9	2.65	9.605	15.844	0	-22.2	40.1
Ti470158 ^a	2047-04-23 07:41:31.26	18 16 55.18530 -22 17 23.78325	13.2	64.0	171.0	149.48	11.241	16.127	14.774	308.2	118.5
Pgt	4090526753972826752	18 16 55.18764 -22 17 23.83837	10.3	442.1	1180.8	-4.97	9.527	14.615	0	-22.3	98.0
Ti470159 ^a	2047-04-23 08:12:09.73	18 16 55.14377 -22 17 25.43640	20.1	1071.8	171.1	329.85	11.241	16.693	0	300.6	118.5
Pt	4090526749759251968	18 16 55.10498 -22 17 24.50958	15.9	7405.5	1181.8	-5.02	9.526	15.192	0	-22.3	98.2
Ti470160	2047-04-23 19:28:56.50	18 16 53.02145 -22 17 40.08695	55.3	1098.9	171.4	336.79	13.322	18.310	16.775	130.9	119.0
Pt	4090526719613105408	18 16 52.99024 -22 17 39.07696	42.2	7586.1	1182.8	-6.13	9.518	17.027	0	-22.3	103.8
Ti470161	2047-04-24 12:05:44.46	18 16 48.86100 -22 17 57.68652	17.9	1183.2	162.4	164.27	14.056	17.044	16.096	241.0	119.7
P	4090526685295856512	18 16 48.88411 -22 17 58.82540	13.9	8157.4	1119.4	-7.77	9.506	16.017	0	-22.3	112.0
Ti470162	2047-04-24 17:02:25.64	18 16 47.43910 -22 18 03.86207	17.7	254.4	157.7	166.08	13.643	16.976	15.943	166.6	119.9
Pgt	4090526685295867008	18 16 47.44351 -22 18 04.10901	13.7	1753.4	1086.9	-8.24	9.503	16.013	0	-22.3	114.4
Ti470163*	2047-04-25 06:23:27.70	18 16 43.07944 -22 18 15.40462	15.9	1198.0	141.3	170.33	11.045	15.476	14.258	325.8	120.5
P	4090526650936172544	18 16 43.09393 -22 18 16.58557	12.7	8248.1	973.0	-9.40	9.493	14.657	0	-22.3	121.0
Ti470164	2047-04-25 17:17:17.17	18 16 39.08957 -22 18 23.77217	10.0	754.0	124.8	173.28	10.283	15.507	14.166	161.9	120.9
P	4090521526994105728	18 16 39.09592 -22 18 24.52101	7.3	5187.4	858.8	-10.23	9.486	14.780	0	-22.3	126.4
Ti470165	2047-04-26 02:28:38.40	18 16 35.45913 -22 18 29.50961	14.9	61.5	109.9	355.52	13.550	16.609	15.614	23.6	121.3
Pgt	4090521561319423488	18 16 35.45879 -22 18 29.44828	10.9	423.0	756.2	-10.83	9.479	15.943	0	-22.3	131.0
Ti470166	2047-04-26 06:22:19.80	18 16 33.85035 -22 18 30.16552	11.9	858.8	103.7	176.39	13.422	16.183	15.251	325.1	121.5
P	4090521565649047168	18 16 33.85425 -22 18 31.02266	9.0	5903.1	713.4	-11.05	9.477	15.538	0	-22.3	132.9
Ti470167	2047-04-26 10:06:14.91	18 16 32.28932 -22 18 33.19670	14.0	960.8	98.0	357.21	13.170	16.422	15.356	268.9	121.6
Pt	4090521561319417344	18 16 32.28595 -22 18 32.23703	10.4	6602.3	673.9	-11.24	9.474	15.796	0	-22.3	134.7
Ti470168	2047-04-26 16:03:08.52	18 16 29.73117 -22 18 33.56503	14.0	5.5	89.7	178.42	11.385	16.408	15.017	179.4	121.9
Pgt	4090521668728373376	18 16 29.73118 -22 18 33.57050	11.2	37.5	616.5	-11.51	9.471	15.808	0	-22.3	137.7
Ti470169	2047-04-26 21:24:33.41	18 16 27.38162 -22 18 35.22664	56.8	1092.1	83.6	359.54	13.946	18.651	17.384	98.9	122.1
P	4090521664401879040	18 16 27.38099 -22 18 34.13454	40.8	7499.1	574.2	-11.71	9.467	18.069	0	-22.3	140.3
Ti470170*	2047-04-27 10:45:11.78	18 16 21.38369 -22 18 32.21892	78.3	715.7	77.1	182.06	13.214	17.717	16.229	258.1	122.7
P	4090521325174973440	18 16 21.38184 -22 18 32.93414	59.0	4910.0	529.3	-12.03	9.459	17.165	0	-22.3	147.0
Ti470171	2047-04-27 15:02:04.74	18 16 19.42610 -22 18 32.79737	6.0	1020.2	78.2	2.82	13.113	14.735	14.155	193.7	122.9

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	4090524275738771712	18 16 19.42972 -22 18 31.77844	4.5	6997.0	536.7	-12.09	9.457	14.188	0	-22.3	149.1
Ti470172	2047-04-27 15:55:28.20	18 16 19.02775 -22 18 30.25797	11.4	1236.3	78.6	182.98	13.138	16.267	15.299	180.3	122.9
P	4090524280112514304	18 16 19.02312 -22 18 31.49256	8.5	8478.8	539.6	-12.09	9.456	15.721	0	-22.3	149.6
Ti470173	2047-04-27 16:47:32.45	18 16 18.62929 -22 18 30.45786	29.6	742.0	79.1	183.13	14.013	17.906	16.855	167.3	122.9
P	4090524275741984768	18 16 18.62637 -22 18 31.19879	22.7	5088.9	542.9	-12.10	9.456	17.360	0	-22.3	150.0
Ti470174	2047-04-27 18:36:53.79	18 16 17.79360 -22 18 30.31742	14.8	217.1	80.3	183.44	11.883	16.212	15.021	139.9	123.0
Pgt	4090524275738756480	18 16 17.79266 -22 18 30.53412	11.2	1488.7	551.1	-12.11	9.455	15.667	0	-22.3	150.9
Ti470175	2047-04-27 19:25:10.38	18 16 17.42132 -22 18 30.91816	14.6	699.2	80.9	3.58	13.429	16.529	15.602	127.8	123.0
Pt	4090524280112538240	18 16 17.42447 -22 18 30.22028	10.8	4794.6	555.3	-12.11	9.454	15.985	0	-22.3	151.3
Ti470176	2047-04-27 21:47:24.16	18 16 16.33701 -22 18 29.72559	18.7	502.9	83.0	3.99	12.675	16.811	15.523	92.1	123.1
Pt	4090524280112558848	18 16 16.33953 -22 18 29.22389	14.7	3447.9	569.5	-12.12	9.453	16.267	0	-22.3	152.5
Ti470177	2047-04-28 03:23:05.67	18 16 13.78334 -22 18 26.13280	22.9	325.5	89.3	184.92	13.107	17.405	16.148	7.9	123.4
Pgt	4090524310098516864	18 16 13.78133 -22 18 26.45707	18.6	2230.7	612.7	-12.10	9.450	16.860	0	-22.3	155.3
Ti470178	2047-04-28 05:18:28.56	18 16 12.90076 -22 18 25.88030	37.0	507.1	91.9	5.23	12.983	17.532	16.174	339.0	123.5
Pt	4090524310101717120	18 16 12.90409 -22 18 25.37533	29.0	3475.0	630.2	-12.09	9.449	16.985	0	-22.3	156.3
Ti470179	2047-04-28 10:37:28.84	18 16 10.48326 -22 18 22.71497	15.9	667.5	99.7	6.09	12.666	16.886	15.724	259.0	123.7
Pt	4090524310098505856	18 16 10.48836 -22 18 22.05125	12.1	4572.8	683.4	-12.02	9.446	16.333	0	-22.3	158.9
Ti470180	2047-04-28 13:52:20.09	18 16 09.01719 -22 18 20.38597	12.9	600.4	104.8	6.60	13.762	16.451	15.615	210.2	123.8
Pt	4090524417551647488	18 16 09.02216 -22 18 19.78958	9.5	4112.2	718.5	-11.96	9.444	15.893	0	-22.3	160.6
Ti470181	2047-04-28 18:21:42.39	18 16 07.00264 -22 18 17.24664	5.6	863.5	112.2	7.29	10.597	14.347	13.316	142.6	124.0
Pt	4090524417551685248	18 16 07.01053 -22 18 16.39012	4.0	5913.1	769.0	-11.86	9.442	13.779	0	-22.3	162.8
Ti470182*	2047-04-29 14:07:52.89	18 15 58.45583 -22 17 58.40455	32.4	231.8	144.6	10.14	12.988	17.362	16.133	205.2	124.8
Pg	4090525203455045888	18 15 58.45877 -22 17 58.17634	24.9	1585.8	989.6	-11.16	9.432	16.729	0	-22.3	172.7
Ti470183	2047-04-29 20:24:39.94	18 15 55.87298 -22 17 51.92771	6.4	433.6	153.7	10.98	12.635	14.723	14.087	110.8	125.1
Pt	4090523794703790208	18 15 55.87893 -22 17 51.50203	4.7	2965.2	1051.4	-10.86	9.429	14.060	0	-22.3	175.6
Ti470184	2047-04-30 16:37:29.04	18 15 48.15417 -22 17 27.94052	13.1	367.4	175.8	193.39	12.388	16.389	15.292	166.7	126.0
Pgt	4090523970875455232	18 15 48.14803 -22 17 28.29796	9.7	2510.2	1201.0	-9.71	9.419	15.605	0	-22.3	172.9
Ti470185	2047-05-01 04:23:38.38	18 15 44.08295 -22 17 15.19130	4.5	905.6	182.5	14.53	9.956	13.286	12.336	349.7	126.4
Pt	4090523932142757760	18 15 44.09932 -22 17 14.31463	3.4	6183.5	1245.6	-8.95	9.414	12.413	0	-22.3	166.9
Ti470186	2047-05-01 15:35:02.28	18 15 40.60362 -22 17 00.10622	22.2	1210.8	184.1	195.33	13.157	17.165	15.663	181.3	126.9
P	4090711605065792256	18 15 40.58056 -22 17 01.27398	16.9	8263.0	1255.8	-8.18	9.409	16.195	0	-22.3	161.0
Ti470187	2047-05-02 19:00:14.85	18 15 33.33153 -22 16 31.95761	7.9	1154.1	168.3	195.29	9.108	14.590	13.225	128.9	128.0
P	4090711849927628032	18 15 33.30961 -22 16 33.07081	6.1	7865.4	1146.1	-6.32	9.397	13.340	0	-22.3	146.3
Ti470188	2047-05-02 23:29:41.71	18 15 32.29891 -22 16 28.78475	8.5	485.5	163.2	194.87	10.994	15.508	14.315	61.3	128.2
Pt	4090711845545849344	18 15 32.28993 -22 16 29.25399	6.6	3308.1	1111.5	-6.04	9.395	14.209	0	-22.3	143.8
Ti470189	2047-05-03 12:01:05.76	18 15 29.68458 -22 16 19.11101	24.7	1124.5	146.2	192.75	13.054	17.442	16.202	233.0	128.7
P	4090711536346258944	18 15 29.66671 -22 16 20.20780	19.4	7657.9	994.9	-5.32	9.390	16.005	0	-22.3	136.8
Ti470190	2047-05-03 15:04:51.25	18 15 29.06047 -22 16 18.99488	21.1	619.3	141.5	11.99	13.005	17.238	16.108	186.9	128.9
Pt	4090711536308222080	18 15 29.06974 -22 16 18.38913	16.5	4216.5	962.6	-5.17	9.388	15.769	0	-22.3	135.1
Ti470191	2047-05-04 13:11:07.52	18 15 25.15601 -22 16 09.30741	30.0	1192.1	104.6	183.37	13.394	17.863	16.580	214.4	129.8
P	4090712296604380672	18 15 25.15096 -22 16 10.49748	23.9	8108.1	710.9	-4.36	9.378	16.209	0	-22.3	122.5
Ti470192	2047-05-05 05:50:44.10	18 15 22.44864 -22 16 11.39885	8.1	201.6	82.3	354.34	10.978	15.254	14.134	323.8	130.5
Pgt	4090712257862767104	18 15 22.44721 -22 16 11.19824	6.1	1369.9	558.6	-4.25	9.369	13.573	0	-22.3	112.8
Ti470193	2047-05-06 09:34:13.22	18 15 17.68495 -22 16 24.66365	24.2	927.3	89.1	162.92	13.348	17.642	16.259	266.8	131.6
P	4090712223502986752	18 15 17.70457 -22 16 25.55004	19.3	6291.3	603.5	-5.16	9.355	16.171	0	-22.3	96.1
Ti470194	2047-05-07 21:23:18.68	18 15 09.39984 -22 17 05.33197	15.8	198.9	145.6	341.24	12.569	16.770	15.571	88.0	133.1
Pgt	4090688927600287744	18 15 09.39523 -22 17 05.14367	12.1	1346.1	984.7	-7.90	9.334	15.762	0	-22.3	73.9
Ti470195	2047-05-08 23:52:07.13	18 15 00.42389 -22 17 42.15098	18.7	1188.3	172.5	164.74	12.515	17.066	15.868	49.7	134.2
P	4090688858886944768	18 15 00.44643 -22 17 43.29735	14.6	8029.8	1165.1	-10.60	9.317	16.376	0	-22.3	57.1
Ti470196* ^a	2047-05-09 05:36:42.48	18 14 58.12645 -22 17 52.05789	67.8	248.0	174.8	345.67	13.823	18.066	16.364	323.3	134.4

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4090691779488176640	18 14 58.12203 -22 17 51.81764	53.2	1675.0	1180.7	-11.21	9.314	17.437	0	-22.3	53.5
Ti470197 ^d	2047-05-09 05:38:25.17	18 14 58.09603 -22 17 51.09376	43.9	790.7	174.8	165.67	13.823	18.309		322.9	134.4
P	4090691783848490752	18 14 58.11013 -22 17 51.85983	33.9	5340.8	1180.7	-11.21	9.314	17.681	0	-22.3	53.4
Ti470198	2047-05-09 06:25:19.10	18 14 57.77994 -22 17 52.86516	27.4	154.6	175.1	165.80	13.397	17.883	16.651	311.1	134.5
Pgt	4090691783825731200	18 14 57.78267 -22 17 53.01507	21.5	1044.5	1182.1	-11.30	9.313	17.263	0	-22.3	52.9
Ti470199 [*]	2047-05-09 08:27:26.62	18 14 56.90173 -22 17 55.12481	54.5	917.1	175.5	166.14	13.415	18.334	16.994	280.5	134.5
P	4090691779464700288	18 14 56.91756 -22 17 56.01519	44.5	6193.7	1185.0	-11.52	9.312	17.735	0	-22.3	51.7
Ti470200	2047-05-10 02:45:34.48	18 14 48.34391 -22 18 22.53239	45.0	588.1	171.6	349.21	13.494	18.214	16.990	5.2	135.3
Pt	4090691440228840064	18 14 48.33597 -22 18 21.95468	35.1	3967.1	1157.3	-13.44	9.301	17.782	0	-22.3	40.0
Ti470201	2047-05-11 06:45:07.60	18 14 32.58657 -22 18 53.84314	21.8	484.0	141.2	173.74	12.340	17.082	15.797	304.1	136.5
P	4090690856113348352	18 14 32.59038 -22 18 54.32427	16.2	3259.1	951.2	-15.99	9.284	16.840	0	-22.3	22.5
Ti470202	2047-05-11 08:23:31.96	18 14 31.57986 -22 18 55.65814	6.5	171.8	138.7	173.99	13.253	14.691	14.192	279.4	136.6
Pgt	4090690821753613568	18 14 31.58115 -22 18 55.82902	4.6	1156.9	934.4	-16.12	9.283	14.457	0	-22.3	21.5
Ti470203	2047-05-11 11:53:22.50	18 14 29.39352 -22 18 57.76149	21.6	1112.9	133.3	174.53	12.095	17.109	15.831	226.8	136.7
P	4090690817385680000	18 14 29.40117 -22 18 58.86928	16.4	7491.1	897.6	-16.38	9.281	16.892	0	-22.3	19.3
Ti470204	2047-05-11 13:14:55.28	18 14 28.54508 -22 19 00.13574	19.1	148.9	131.1	354.73	11.603	16.762	15.404	206.3	136.8
Pgt	4090690817385676544	18 14 28.54410 -22 18 59.98751	13.8	1001.9	882.9	-16.48	9.280	16.552	0	-22.3	18.5
Ti470205	2047-05-11 16:12:32.75	18 14 26.66170 -22 19 02.76363	15.1	467.4	126.3	355.17	11.071	16.330	15.018	161.8	136.9
Pt	4090690787393975552	18 14 26.65887 -22 19 02.29785	11.0	3145.6	850.4	-16.68	9.279	16.133	0	-22.3	16.7
Ti470206	2047-05-11 22:45:09.46	18 14 22.41382 -22 19 07.90108	28.2	1125.9	115.5	356.13	11.421	16.964	15.521	63.3	137.2
P	4090690752971475328	18 14 22.40835 -22 19 06.77776	22.0	7573.8	777.3	-17.09	9.275	16.793	0	-22.3	12.7
Ti470207	2047-05-11 23:28:40.17	18 14 21.93439 -22 19 08.00367	53.1	785.4	114.3	356.23	12.700	18.290		52.4	137.2
Pt	4090690753034256128	18 14 21.93068 -22 19 07.21994	40.6	5283.3	769.2	-17.13	9.275	18.122	0	-22.3	12.3
Ti470208 ^d	2047-05-12 03:05:59.69	18 14 19.52559 -22 19 08.98167	28.3	281.9	108.3	176.75	10.925	17.401		357.9	137.4
Pgt	4090690959129997056	18 14 19.52674 -22 19 09.26315	22.3	1896.1	729.0	-17.33	9.273	17.245	0	-22.3	10.1
Ti470209 ^d	2047-05-12 03:07:00.62	18 14 19.51971 -22 19 10.31710	27.4	1046.7	108.3	356.75	10.925	16.456	14.854	357.7	137.4
Pt	4090690954824613632	18 14 19.51544 -22 19 09.27204	21.3	7039.6	728.8	-17.33	9.273	16.300	0	-22.3	10.1
Ti470210	2047-05-12 08:13:22.68	18 14 16.07791 -22 19 11.35000	79.9	327.0	100.2	177.47	13.370	18.834	17.394	280.9	137.6
Pgt	4090690576873524352	18 14 16.07895 -22 19 11.67667	61.1	2198.5	674.3	-17.58	9.270	18.694	0	-22.3	7.1
Ti470211	2047-05-12 10:01:19.54	18 14 14.85386 -22 19 11.59616	33.6	794.9	97.5	177.72	13.865	17.778	16.598	253.8	137.7
P	4090690645586963328	18 14 14.85614 -22 19 12.39041	24.9	5343.7	656.1	-17.66	9.269	17.643	0	-22.3	6.1
Ti470212	2047-05-14 20:10:13.24	18 13 34.16364 -22 18 59.47407	29.2	37.9	121.4	4.48	14.279	17.346	16.292	99.0	140.2
Pgt	4090697246953517184	18 13 34.16385 -22 18 59.43628	20.9	254.1	814.1	-17.81	9.243	17.220	0	-22.3	28.1
Ti470213	2047-05-14 23:38:24.92	18 13 31.79610 -22 18 55.42972	43.0	1322.2	127.3	184.83	12.302	18.042	16.629	46.8	140.3
P	4090697246953578624	18 13 31.78809 -22 18 56.74726	30.5	8862.6	853.9	-17.68	9.242	17.908	0	-22.3	30.0
Ti470214	2047-05-15 20:40:28.61	18 13 17.84106 -22 18 37.82997	17.9	443.2	160.2	6.54	11.784	16.389	15.155	90.4	141.2
Pt	4090700335033259392	18 13 17.84470 -22 18 37.38970	12.6	2968.0	1073.4	-16.66	9.234	16.191	0	-22.3	41.4
Ti470215	2047-05-16 05:35:26.78	18 13 12.23282 -22 18 26.84440	13.0	1195.4	171.1	187.12	13.391	16.315	15.556	316.3	141.6
P	4090700369393007744	18 13 12.22214 -22 18 28.03059	9.6	8003.5	1145.7	-16.12	9.231	16.081	0	-22.3	46.2
Ti470216	2047-05-16 11:01:53.70	18 13 08.89116 -22 18 21.77742	12.4	348.4	176.5	187.42	13.785	16.211	15.451	234.4	141.8
Pgt	4090699652208465792	18 13 08.88792 -22 18 22.12288	8.9	2332.0	1181.7	-15.76	9.229	15.952	0	-22.3	49.1
Ti470217	2047-05-16 11:39:50.74	18 13 08.49335 -22 18 22.69249	27.6	1273.8	177.1	7.46	12.758	17.550	16.278	224.9	141.8
P	4090699647844331904	18 13 08.50526 -22 18 21.42946	20.2	8526.4	1185.4	-15.72	9.229	17.289	0	-22.3	49.4
Ti470218	2047-05-16 14:38:11.76	18 13 06.71109 -22 18 19.19688	28.9	1048.7	179.5	7.60	12.838	17.453	16.110	180.2	142.0
P	4090699652208482688	18 13 06.72109 -22 18 18.15737	22.3	7019.1	1201.9	-15.52	9.228	17.178	0	-22.3	51.0
Ti470219	2047-05-17 02:19:19.78	18 12 59.92931 -22 18 06.15481	45.2	942.8	186.2	8.02	12.983	18.165	16.788	4.4	142.5
Pt	4090699888354999040	18 12 59.93878 -22 18 05.22122	35.4	6307.7	1245.9	-14.70	9.225	17.830	0	-22.3	57.0
Ti470220	2047-05-17 05:40:56.81	18 12 58.05549 -22 18 01.81399	38.5	288.2	187.2	8.09	12.503	17.707	16.300	313.8	142.6
Pgt	4090699785283269120	18 12 58.05841 -22 18 01.52864	27.8	1928.1	1252.3	-14.45	9.224	17.355	0	-22.3	58.8
Ti470221	2047-05-17 07:13:39.88	18 12 57.19348 -22 18 00.89542	31.0	1064.7	187.5	8.11	12.275	17.731	16.379	290.6	142.7

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	4090699785283267456	18 12 57.20431 -22 17 59.84134	23.6	7122.3	1254.3	-14.34	9.223	17.370	0	-22.3	59.6
Ti470222	2047-05-17 08:27:45.04	18 12 56.51724 -22 17 59.41356	45.7	923.7	187.7	8.13	13.382	18.265	16.890	272.0	142.7
Pt	4090699854003033984	18 12 56.52666 -22 17 58.49913	35.6	6178.7	1255.4	-14.25	9.223	17.897	0	-22.3	60.2
Ti470223	2047-05-17 12:24:11.09	18 12 54.39210 -22 17 54.31936	4.8	61.3	187.9	8.16	10.287	13.544	12.618	212.7	142.9
Pg	4090699858366511232	18 12 54.39272 -22 17 54.25864	3.3	410.2	1256.4	-13.96	9.222	13.153	0	-22.3	62.2
Ti470224	2047-05-17 15:48:18.37	18 12 52.59103 -22 17 50.12816	23.1	538.9	187.5	188.16	10.776	16.656	15.197	161.6	143.0
Pt	4090699819643289856	18 12 52.58552 -22 17 50.66157	17.4	3603.6	1253.9	-13.71	9.221	16.247	0	-22.3	64.0
Ti470225	2047-05-17 20:49:51.44	18 12 49.96872 -22 17 46.09081	38.8	613.9	186.2	8.10	12.994	17.801	16.374	85.9	143.2
Pt	4090746759435422976	18 12 49.97495 -22 17 45.48305	29.5	4104.5	1244.9	-13.34	9.219	17.362	0	-22.3	66.6
Ti470226	2047-05-18 16:14:51.16	18 12 40.52346 -22 17 28.63429	22.0	987.6	172.4	7.18	11.842	17.115	15.749	153.9	144.1
Pt	4090746617597104384	18 12 40.53236 -22 17 27.65440	15.5	6599.4	1151.5	-11.98	9.213	16.558	0	-22.3	76.4
Ti470227	2047-05-19 06:01:36.85	18 12 34.39607 -22 17 18.55612	60.0	645.5	155.1	5.74	13.564	18.631	17.238	306.6	144.6
Pt	4090746587571761920	18 12 34.40073 -22 17 17.91383	43.0	4311.5	1035.2	-11.12	9.209	17.994	0	-22.3	83.3
Ti470228	2047-05-19 22:07:21.53	18 12 27.73295 -22 17 09.74447	43.3	812.7	129.3	183.15	12.772	17.760	16.387	64.5	145.3
P	4090747373521154304	18 12 27.72974 -22 17 10.55594	32.5	5424.9	862.2	-10.34	9.204	17.044	0	-22.3	91.3
Ti470229*	2047-05-20 00:30:54.81	18 12 26.77685 -22 17 09.25007	88.8	630.1	125.1	182.69	13.385	18.360	16.834	28.5	145.4
Pt	4090747377845896064	18 12 26.77472 -22 17 09.87949	68.9	4205.8	834.7	-10.24	9.203	17.634	0	-22.3	92.5
Ti470230 ^d	2047-05-20 04:08:48.08	18 12 25.34239 -22 17 08.06458	21.2	1008.3	118.9	181.95	12.622	18.808	16.338	333.8	145.6
P	4090747373511356032	18 12 25.33993 -22 17 09.07233	16.9	6729.4	792.6	-10.12	9.202	18.069	0	-22.3	94.3
Ti470231 ^d	2047-05-20 04:21:41.04	18 12 25.25571 -22 17 08.99043	43.7	42.6	118.5	181.91	12.622	17.888	16.388	330.6	145.6
Pgt	4090747377845921408	18 12 25.25561 -22 17 09.03301	32.7	284.3	790.1	-10.11	9.202	17.147	0	-22.3	94.4
Ti470232	2047-05-20 16:21:19.05	18 12 20.62006 -22 17 09.55658	47.6	1184.0	98.6	359.21	13.258	18.047	16.778	150.2	146.1
P	4066728370217342464	18 12 20.61888 -22 17 08.37265	33.9	7898.4	657.2	-9.83	9.198	17.276	0	-22.3	100.3
Ti470233*	2047-05-20 18:27:17.86	18 12 19.81823 -22 17 08.44969	36.1	124.4	95.5	178.71	12.051	17.255	15.843	118.6	146.2
Pgt	4066728370217341952	18 12 19.81843 -22 17 08.57410	28.8	830.1	636.3	-9.80	9.197	16.480	0	-22.3	101.3
Ti470234	2047-05-21 12:13:09.37	18 12 13.08428 -22 17 14.75132	22.7	599.1	79.4	354.49	13.781	17.063	16.083	211.4	146.9
Pt	4066728301490455424	18 12 13.08014 -22 17 14.15497	17.7	3993.4	528.5	-9.84	9.190	16.293	0	-22.3	110.1
Ti470235 ^d	2047-05-22 15:35:39.67	18 12 02.24564 -22 17 35.38163	28.5	618.1	103.2	169.55	11.854	17.723	16.005	159.6	148.0
P	4066730917197257216	18 12 02.25372 -22 17 35.98947	21.8	4115.0	686.4	-10.90	9.179	17.064	0	-22.3	123.6
Ti470236 ^d	2047-05-22 15:36:27.85	18 12 02.25382 -22 17 36.43139	40.3	434.8	103.2	349.55	11.854	17.918	15.94	159.4	148.0
Pt	4066730917172012544	18 12 02.24813 -22 17 36.00378	30.6	2894.9	686.5	-10.90	9.179	17.259	0	-22.3	123.6
Ti470237	2047-05-22 16:48:20.01	18 12 01.76204 -22 17 38.44600	77.1	1168.7	105.1	349.40	13.370	18.921	16.144	141.4	148.1
Pt	4066730912854071168	18 12 01.74655 -22 17 37.29723	59.8	7780.2	699.4	-10.97	9.179	18.270	0	-22.3	124.2
Ti470238	2047-05-23 00:42:18.71	18 11 58.34826 -22 17 45.98268	7.9	479.5	118.4	168.64	13.312	15.048	14.445	22.5	148.4
Pt	4066731084629225216	18 11 58.35507 -22 17 46.45279	6.2	3191.0	787.4	-11.50	9.175	14.447	0	-22.3	128.1
Ti470239	2047-05-23 17:54:30.98	18 11 50.35839 -22 18 09.01899	7.9	634.4	146.5	167.96	11.530	15.220	14.195	123.7	149.1
Pt	4066731015909726464	18 11 50.36792 -22 18 09.63947	5.5	4218.4	973.5	-12.89	9.168	14.743	0	-22.3	136.6
Ti470240	2047-05-23 23:26:16.54	18 11 47.60742 -22 18 18.62979	63.6	808.6	154.3	348.00	12.814	18.818	17.449	40.6	149.4
Pt	4066731020251900032	18 11 47.59530 -22 18 17.83890	47.3	5374.7	1025.2	-13.40	9.165	18.383	0	-22.3	139.4
Ti470241	2047-05-24 01:03:32.91	18 11 46.77646 -22 18 21.27749	29.2	1003.7	156.4	348.03	11.868	17.531	16.118	16.2	149.4
Pt	4066731015916767104	18 11 46.76146 -22 18 20.29567	19.8	6671.0	1039.2	-13.55	9.164	17.108	1	-22.3	140.2
Ti470242	2047-05-24 06:56:24.73	18 11 43.66044 -22 18 29.81677	9.0	453.9	163.5	348.22	13.427	15.458	14.770	287.7	149.7
Pt	4066730298722166016	18 11 43.65376 -22 18 29.37246	6.4	3015.9	1085.6	-14.12	9.162	15.080	0	-22.3	143.1
Ti470243	2047-05-24 14:17:14.54	18 11 39.58195 -22 18 41.00410	47.1	22.7	170.5	348.59	13.119	18.499	17.126	177.2	150.0
Pgt	4066730333057481472	18 11 39.58162 -22 18 40.98188	32.1	150.6	1132.3	-14.86	9.158	18.177	0	-22.3	146.8
Ti470244*	2047-05-24 15:27:06.98	18 11 38.92601 -22 18 43.51748	9.4	690.8	171.5	348.66	12.274	13.862	13.321	159.7	150.0
Pt	4066730328714900480	18 11 38.91622 -22 18 42.84016	7.2	4588.3	1138.5	-14.98	9.158	13.548	0	-22.3	147.4
Ti470245	2047-05-25 02:30:33.69	18 11 32.32085 -22 19 00.75102	50.1	201.3	177.6	349.48	12.188	18.715	17.170	353.3	150.5
Pgt	406673040177279360	18 11 32.31820 -22 19 00.55315	35.5	1336.0	1179.0	-16.13	9.153	18.482	0	-22.3	153.0
Ti470246	2047-05-25 04:31:25.06	18 11 31.04431 -22 19 02.50300	18.1	1285.7	178.2	169.65	12.940	16.938	16.021	323.0	150.6

Table 6 continued on next page

Table 6 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	4066730397465214848	18 11 31.06096 -22 19 03.76779	13.4	8533.9	1182.7	-16.34	9.152	16.719	0	-22.3	154.0
Ti470247	2047-05-25 05:18:13.86	18 11 30.58632 -22 19 06.30700	61.4	1318.3	178.4	349.71	11.038	17.892	15.974	311.3	150.6
P	4066730397434342400	18 11 30.56935 -22 19 05.00992	47.4	8749.6	1183.9	-16.443	9.151	17.679	0	-22.3	154.4
Ti470248	2047-05-25 13:30:48.72	18 11 25.25023 -22 19 18.75663	9.0	846.0	178.7	350.48	11.948	15.620	14.629	187.8	151.0
Pt	4066730092563927040	18 11 25.24014 -22 19 17.92228	6.4	5612.7	1185.3	-17.28	9.147	15.461	0	-22.3	158.5
Ti470249	2047-05-25 23:21:14.45	18 11 18.49083 -22 19 33.90172	24.6	1113.5	175.2	351.50	11.602	17.155	15.771	39.7	151.4
Pt	4066741706160208640	18 11 18.47897 -22 19 32.80046	17.7	7383.7	1161.9	-18.28	9.143	17.058	0	-22.3	163.5
Ti470250	2047-05-26 08:02:30.70	18 11 12.19132 -22 19 46.17630	7.0	1062.5	168.9	352.45	10.223	13.824	12.833	269.0	151.8
Pt	4066741740515378176	18 11 12.18125 -22 19 45.12297	4.7	7042.9	1119.5	-19.12	9.139	13.775	0	-22.3	167.9
Ti470251	2047-05-26 13:33:10.36	18 11 08.03517 -22 19 52.57798	23.2	144.0	163.4	353.07	13.886	17.365	16.441	186.1	152.0
Pgt	4066736071158591488	18 11 08.03392 -22 19 52.43508	16.1	953.9	1082.9	-19.62	9.137	17.345	0	-22.3	170.7
Ti470252	2047-05-26 15:27:22.57	18 11 06.56512 -22 19 53.67516	35.1	1190.4	161.2	173.28	9.706	17.118	15.481	157.5	152.1
P	4066736071158609536	18 11 06.57516 -22 19 54.85739	23.7	7887.5	1068.6	-19.79	9.136	17.107	0	-22.3	171.6
Ti470253	2047-05-26 16:26:06.97	18 11 05.82234 -22 19 56.39566	9.2	316.3	160.1	353.39	11.491	15.669	14.538	142.8	152.1
Pgt	4066736032431359104	18 11 05.81972 -22 19 56.08148	6.6	2095.5	1061.0	-19.88	9.135	15.662	0	-22.3	172.1
Ti470254	2047-05-27 03:09:21.77	18 10 57.32212 -22 20 07.29530	8.1	1148.5	145.6	174.62	12.321	15.284	14.389	341.5	152.6
P	4066736002439230208	18 10 57.32988 -22 20 08.43876	6.0	7605.8	964.8	-20.75	9.131	15.324	0	-22.3	177.0
Ti470255	2047-05-27 03:40:04.57	18 10 56.91725 -22 20 09.30621	11.0	329.8	144.9	354.68	13.665	15.758	15.062	333.8	152.6
Pgt	4066736002439231744	18 10 56.91505 -22 20 08.97779	8.2	2184.3	959.8	-20.79	9.131	15.800	0	-22.3	177.1
Ti470256	2047-05-27 04:17:24.42	18 10 56.40355 -22 20 08.69215	9.6	938.2	143.9	174.75	10.984	15.405	14.248	324.4	152.6
P	4066736753985844864	18 10 56.40974 -22 20 09.62638	7.4	6212.5	953.5	-20.83	9.130	15.449	0	-22.3	177.3
Ti470257	2047-05-27 16:59:45.83	18 10 45.84593 -22 20 21.25216	44.6	38.5	123.4	356.20	11.054	18.407	16.848	133.3	153.2
Pgt	4066736380373848064	18 10 45.84574 -22 20 21.21377	32.5	254.7	816.9	-21.68	9.125	18.495	0	-22.3	174.3
Ti470258	2047-05-27 17:26:56.13	18 10 45.46019 -22 20 21.32701	10.2	239.5	122.6	176.25	13.014	16.005	15.080	126.4	153.2
Pgt	4066736380396473088	18 10 45.46131 -22 20 21.56603	7.6	1585.3	811.8	-21.71	9.125	16.094	0	-22.3	174.1
Ti470259*	2047-05-28 09:45:53.38	18 10 31.32488 -22 20 32.48077	33.2	1180.7	96.3	358.05	13.670	17.253	16.178	241.0	153.9
Pt	4066737990936381824	18 10 31.32198 -22 20 31.30080	22.5	7808.6	637.6	-22.47	9.119	17.379	0	-22.3	165.8
Ti470260	2047-05-28 16:56:38.48	18 10 24.96062 -22 20 33.00622	13.7	711.4	87.4	178.81	14.379	16.648	15.772	133.0	154.2
P	4066738029664113664	18 10 24.96169 -22 20 33.71751	9.7	4704.0	578.3	-22.68	9.117	16.785	0	-22.3	162.0
Ti470261	2047-05-28 22:12:08.94	18 10 20.26804 -22 20 34.82489	24.8	66.6	82.9	359.35	14.665	17.542	16.505	53.9	154.5
Pgt	4066738132743373824	18 10 20.26799 -22 20 34.75833	17.4	440.1	548.4	-22.79	9.115	17.684	0	-22.3	159.2
Ti470262	2047-05-29 00:27:30.20	18 10 18.24725 -22 20 33.96111	64.9	1056.0	81.6	179.59	13.029	18.876	17.424	19.9	154.6
P	4066738128382358144	18 10 18.24780 -22 20 35.01712	48.2	6980.7	540.1	-22.83	9.114	19.019	0	-22.3	158.0
Ti470263	2047-05-29 17:41:56.84	18 10 02.76251 -22 20 32.59709	68.1	785.1	86.9	181.26	12.455	18.902	17.433	120.5	155.3
Pt	4066738575058904960	18 10 02.76127 -22 20 33.38199	54.1	5186.7	574.5	-22.85	9.109	19.047	0	-22.3	148.8
Ti470264	2047-05-29 19:58:10.99	18 10 00.72397 -22 20 33.20384	6.8	494.8	89.4	1.47	11.135	15.138	14.032	86.4	155.4
Pt	4066738785578584064	18 10 00.72489 -22 20 32.70918	5.1	3268.8	590.8	-22.82	9.108	15.282	0	-22.3	147.5
Ti470265	2047-05-29 22:18:28.73	18 09 58.63312 -22 20 30.82419	45.3	1087.1	92.2	181.68	14.632	18.649	17.586	51.2	155.5
P	4066738678131140480	18 09 58.63082 -22 20 31.91084	34.7	7181.2	609.7	-22.78	9.108	18.790	0	-22.3	146.3
Ti470266	2047-05-30 05:13:10.70	18 09 52.46820 -22 20 28.00922	24.6	939.3	102.2	182.28	13.053	17.624	16.491	307.2	155.8
P	4066738716859185408	18 09 52.46550 -22 20 28.94773	18.2	6203.2	675.6	-22.63	9.106	17.759	0	-22.3	142.5
Ti470267	2047-05-31 02:11:53.96	18 09 34.13150 -22 20 13.82093	24.0	1251.2	137.9	183.91	13.004	17.450	16.460	351.6	156.7
P	4069717877897289472	18 09 34.12534 -22 20 15.06925	17.6	8259.4	910.9	-21.83	9.101	17.545	0	-22.3	130.9
Ti470268	2047-05-31 04:08:11.14	18 09 32.47424 -22 20 12.54641	51.0	926.3	141.2	184.05	12.629	18.614	17.523	322.4	156.8
P	4069717873605650560	18 09 32.46953 -22 20 13.47045	39.2	6114.6	932.3	-21.73	9.101	18.704	0	-22.3	129.8

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

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

Table 7. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 7 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _p (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _p (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Ti470269	2047-05-31 06:00:28.99	18 09 30.88472 -22 20 10.59382	32.1	1293.2	144.2	184.17	13.630	17.824	16.826	294.3	156.9
P	4069718599468346112	18 09 30.87793 -22 20 11.88363	24.2	8536.0	952.6	-21.64	9.101	17.909	0	-22.3	128.8
Ti470270	2047-05-31 13:20:23.00	18 09 24.71567 -22 20 05.68258	13.2	385.5	155.7	4.63	13.267	16.288	15.338	184.0	157.2
Pgt	4069718285917636608	18 09 24.71791 -22 20 05.29836	9.8	2544.0	1028.0	-21.22	9.099	16.353	0	-22.3	124.7
Ti470271	2047-05-31 20:22:49.29	18 09 18.92168 -22 19 58.80725	10.5	305.4	165.5	5.02	11.569	15.946	14.771	78.0	157.5
Pgt	4069718462029411968	18 09 18.92360 -22 19 58.50304	8.0	2015.2	1092.6	-20.78	9.098	15.988	0	-22.3	120.7
Ti470272	2047-05-31 22:29:51.26	18 09 17.20659 -22 19 56.29543	22.1	90.6	168.2	185.13	14.490	17.347	16.384	46.2	157.6
Pgt	4069718526435806592	18 09 17.20600 -22 19 56.38569	16.1	598.0	1110.3	-20.64	9.098	17.381	0	-22.3	119.5
Ti470273	2047-06-01 17:32:00.53	18 09 02.31501 -22 19 37.57841	21.3	1165.7	185.9	5.85	13.871	17.066	16.095	119.8	158.4
Pt	4069720141343520128	18 09 02.32356 -22 19 36.41879	16.5	7689.1	1226.3	-19.27	9.095	17.026	0	-22.3	108.6
Ti470274	2047-06-03 07:53:21.52	18 08 35.65191 -22 18 57.02161	20.2	1183.5	180.5	185.45	12.701	16.859	15.795	262.8	160.0
P	4069720764132242816	18 08 35.64381 -22 18 58.19974	14.8	7802.1	1189.6	-16.29	9.090	16.636	0	-22.3	86.0
Ti470275*	2047-06-03 13:36:20.17	18 08 32.04203 -22 18 53.60083	65.2	30.4	175.0	5.10	13.314	17.394	16.153	176.8	160.3
Pgt	4069732476489621120	18 08 32.04222 -22 18 53.57058	49.5	200.2	1153.3	-15.87	9.089	17.144	0	-22.3	82.5
Ti470276	2047-06-06 18:19:35.79	18 07 49.63286 -22 18 48.77514	13.4	536.6	82.3	354.23	11.811	16.235	15.068	102.7	163.5
Pt	4069730281779315072	18 07 49.62898 -22 18 48.24130	9.0	3532.1	541.4	-13.52	9.076	15.810	0	-22.3	35.2
Ti470277**	2047-06-07 00:29:27.59	18 07 46.34310 -22 18 52.94430	16.1	280.8	87.4	173.31	12.230	16.077	15.054	9.9	163.7
Pgt	4069730350498795136	18 07 46.34546 -22 18 53.22322	11.2	1848.4	574.5	-13.70	9.075	15.665	0	-22.3	31.4
Ti470278	2047-06-07 02:07:45.14	18 07 45.45655 -22 18 53.61708	23.1	1071.2	89.2	173.08	9.487	16.178	14.712	345.3	163.8
P	4069730247419581056	18 07 45.46585 -22 18 54.68045	16.2	7050.0	586.3	-13.75	9.075	15.771	0	-22.3	30.4
Ti470279	2047-06-07 10:18:19.42	18 07 41.01958 -22 19 02.81442	38.0	57.2	100.3	352.05	14.030	18.138	16.914	222.3	164.2
Pgt	4069730414906969472	18 07 41.01901 -22 19 02.75773	27.1	376.7	659.5	-14.10	9.073	17.759	0	-22.3	25.3
Ti470280	2047-06-08 14:03:47.03	18 07 24.86665 -22 19 39.18170	33.4	368.3	146.2	350.15	12.100	17.958	16.695	164.7	165.3
Pgt	4069729624635632768	18 07 24.86211 -22 19 38.81887	23.2	2421.3	960.9	-15.96	9.066	17.713	0	-22.3	8.4
Ti470281	2047-06-08 14:27:53.72	18 07 24.61071 -22 19 39.27139	16.0	151.2	146.8	170.14	12.285	16.568	15.475	158.7	165.3
Pgt	4069729624632976384	18 07 24.61257 -22 19 39.42035	10.8	994.1	964.9	-15.99	9.065	16.325	0	-22.3	8.1
Ti470282*	2047-06-09 12:48:38.79	18 07 09.84201 -22 20 14.11120	38.7	872.9	173.2	170.38	11.792	17.370	15.931	182.5	166.3
P	4069729354047982848	18 07 09.85253 -22 20 14.97187	27.8	5735.6	1137.9	-18.03	9.059	17.257	0	-22.3	6.2
Ti470283	2047-06-10 00:40:43.49	18 07 01.23839 -22 20 34.32458	11.0	292.5	179.7	170.98	11.360	15.756	14.982	4.0	166.8
Pgt	4069776323831113600	18 07 01.24169 -22 20 34.61351	7.2	1921.4	1180.3	-19.20	9.056	15.712	0	-22.3	13.0
Ti470284	2047-06-10 07:06:42.94	18 06 56.34243 -22 20 45.63650	35.3	487.1	180.8	351.41	14.259	17.996	16.899	267.2	167.1
Pt	4069682517434435456	18 06 56.33719 -22 20 45.15482	23.9	3198.9	1187.0	-19.84	9.054	17.987	0	-22.3	16.8
Ti470285	2047-06-10 10:15:23.15	18 06 53.87901 -22 20 50.24297	41.4	7.0	180.6	351.73	14.279	18.230	17.217	219.9	167.2
Pgt	4069682521751590144	18 06 53.87893 -22 20 50.23609	28.5	45.7	1185.9	-20.15	9.053	18.238	0	-22.3	18.6
Ti470286*	2047-06-10 21:21:32.33	18 06 44.87958 -22 21 07.24618	106.2	341.8	176.7	172.54	13.190	18.702	17.416	52.8	167.7
Pgt	4069682586162462336	18 06 44.88278 -22 21 07.58505	73.3	2243.2	1159.9	-21.23	9.050	18.767	0	-22.3	25.0
Ti470287	2047-06-11 05:17:06.08	18 06 38.15720 -22 21 18.03411	30.6	1168.2	170.8	173.25	12.362	17.781	16.578	293.6	168.0
P	4069683037147729024	18 06 38.16710 -22 21 19.19422	23.0	7666.0	1121.0	-21.95	9.048	17.882	0	-22.3	29.5
Ti470288	2047-06-11 08:21:19.68	18 06 35.50291 -22 21 23.50370	25.8	30.7	167.8	353.55	7.151	15.301	13.520	247.4	168.1
Pgt	4069683002788000896	18 06 35.50266 -22 21 23.47321	19.3	201.3	1101.7	-22.22	9.047	15.415	0	-22.3	31.3
Ti470289	2047-06-12 00:22:53.16	18 06 21.07927 -22 21 44.68534	102.6	1295.3	147.5	355.09	12.700	18.889	17.472	6.3	168.8
P	4069681658449419648	18 06 21.07129 -22 21 43.39481	66.6	8495.4	967.6	-23.48	9.043	19.063	0	-22.4	40.3
Ti470290	2047-06-12 01:16:53.26	18 06 20.24040 -22 21 44.98746	22.6	610.2	146.1	355.18	11.431	16.829	15.522	352.7	168.9
Pt	406968173147747840	18 06 20.23671 -22 21 44.37944	15.2	4001.9	958.7	-23.55	9.043	17.006	0	-22.4	40.8
Ti470291	2047-06-12 07:41:27.38	18 06 14.22961 -22 21 51.33706	12.0	402.9	136.0	355.82	11.761	16.107	14.895	256.3	169.2
Pt	4069684652055534080	18 06 14.22749 -22 21 50.93519	8.3	2642.3	892.0	-23.97	9.042	16.303	0	-22.4	44.3
Ti470292	2047-06-12 15:22:36.84	18 06 06.88112 -22 21 57.25522	32.3	435.7	123.1	176.59	12.869	17.793	16.689	140.7	169.5

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4069684583336555904	18 06 06.88299 -22 21 57.69013	21.5	2856.6	807.4	-24.40	9.040	18.009	0	-22.4	48.5
Ti470293	2047-06-12 21:57:26.85	18 06 00.49160 -22 22 02.27972	73.7	185.3	111.9	177.24	14.886	18.848	17.688	41.7	169.8
Pgt	4069684407228386048	18 06 00.49224 -22 22 02.46476	59.6	1214.4	734.3	-24.71	9.039	19.077	0	-22.4	52.1
Ti470294	2047-06-13 16:59:24.11	18 05 41.63446 -22 22 11.29430	52.3	496.5	86.0	359.09	13.385	18.314	17.018	115.3	170.6
Pt	4069679459416422784	18 05 41.63389 -22 22 10.79791	34.5	3253.4	563.8	-25.26	9.036	18.568	0	-22.4	62.2
Ti470295	2047-06-14 20:56:04.18	18 05 13.64934 -22 22 07.11303	11.5	1311.9	94.9	181.56	13.815	16.211	15.510	54.9	171.8
P	4069691038648253568	18 05 13.64677 -22 22 08.42440	8.5	8594.2	622.5	-25.11	9.033	16.458	0	-22.4	76.8
Ti470296	2047-06-14 21:55:55.93	18 05 12.65391 -22 22 08.45533	6.4	415.4	96.3	1.64	12.160	14.934	14.195	39.9	171.9
Pt	4069691038648259072	18 05 12.65476 -22 22 08.04010	4.7	2721.3	631.5	-25.09	9.033	15.180	0	-22.4	77.3
Ti470297	2047-06-15 08:36:30.69	18 05 02.11289 -22 22 03.95019	15.3	1174.6	113.2	2.47	8.620	15.650	14.130	239.3	172.3
Pt	4069691730161883776	18 05 02.11655 -22 22 02.77666	11.4	7694.5	742.2	-24.74	9.032	15.880	0	-22.4	82.7
Ti470298	2047-06-15 08:58:14.31	18 05 01.76398 -22 22 01.93689	53.7	626.7	113.8	182.50	12.198	18.408	17.017	233.8	172.3
Pt	4069691725852367360	18 05 01.76200 -22 22 02.56297	38.0	4105.2	746.3	-24.72	9.032	18.639	0	-22.4	82.9
Ti470299	2047-06-16 22:10:33.38	18 04 26.83652 -22 21 32.31224	48.8	1082.9	172.3	4.74	13.543	18.290	17.164	34.1	173.9
Pt	4069693894817413120	18 04 26.84297 -22 21 31.23301	35.1	7093.8	1129.1	-22.54	9.032	18.420	0	-22.4	101.6
Ti470300	2047-06-16 22:41:33.20	18 04 26.38845 -22 21 29.90828	40.1	798.0	172.9	184.76	12.891	17.820	16.143	26.3	173.9
Pt	4069693894827924992	18 04 26.38367 -22 21 30.70351	26.6	5227.3	1133.0	-22.50	9.032	17.948	0	-22.4	101.8
Ti470301	2047-06-17 04:08:08.27	18 04 21.59630 -22 21 24.64098	44.7	401.4	178.7	184.98	13.374	18.445	17.369	304.4	174.2
Pt	4069693959235153408	18 04 21.59379 -22 21 25.04084	32.3	2629.3	1171.1	-22.08	9.032	18.552	0	-22.4	104.5
Ti470302	2047-06-17 05:04:22.87	18 04 20.76993 -22 21 25.35125	44.9	1303.8	179.6	5.01	12.932	18.387	17.297	290.3	174.2
P	4069694131024726016	18 04 20.77814 -22 21 24.05241	32.5	8540.9	1177.0	-22.01	9.032	18.491	0	-22.4	105.0
Ti470303	2047-06-17 13:30:48.63	18 04 13.55527 -22 21 15.69417	67.7	654.9	186.3	5.26	14.949	18.938	17.823	163.3	174.6
Pt	4069670732051991168	18 04 13.55960 -22 21 15.04204	50.8	4290.1	1221.0	-21.33	9.032	19.009	0	-22.3	109.2
Ti470304	2047-06-17 18:19:00.88	18 04 09.54966 -22 21 10.64625	7.6	774.0	189.0	5.36	12.716	14.999	14.289	91.0	174.8
Pt	4069858409245498112	18 04 09.55487 -22 21 09.87565	5.5	5070.5	1238.4	-20.94	9.033	15.049	0	-22.3	111.6
Ti470305*	2047-06-17 22:54:40.86	18 04 05.79542 -22 21 05.00970	41.8	59.5	190.7	5.43	14.018	17.551	16.411	21.9	175.0
Pgt	4069858443605243776	18 04 05.79582 -22 21 04.95046	30.5	389.8	1249.7	-20.55	9.033	17.580	0	-22.3	113.8
Ti470306***	2047-06-18 00:58:53.38	18 04 04.11800 -22 21 03.77910	35.8	1038.5	191.3	5.44	11.161	14.696	13.560	350.8	175.1
Pt	4069858443605246464	18 04 04.12510 -22 21 02.74529	25.4	6803.5	1253.1	-20.38	9.033	14.716	0	-22.3	114.9
Ti470307	2047-06-18 15:17:45.21	18 03 52.95877 -22 20 48.94339	34.1	944.0	190.2	5.37	12.815	17.683	16.478	135.4	175.6
Pt	4069858576730914560	18 03 52.96515 -22 20 48.00357	26.1	6184.8	1246.1	-19.17	9.034	17.637	0	-22.3	121.9
Ti470308	2047-06-18 21:43:29.52	18 03 48.17769 -22 20 41.31288	45.5	522.2	187.2	185.22	14.435	18.165	17.014	38.7	175.9
Pt	4069858954688040576	18 03 48.17427 -22 20 41.83294	32.9	3421.8	1226.0	-18.63	9.034	18.088	0	-22.3	125.1
Ti470309	2047-06-19 08:03:42.27	18 03 40.74475 -22 20 33.60227	24.8	832.3	179.0	4.79	12.563	17.433	16.157	243.2	176.3
Pt	4069859195206215168	18 03 40.74977 -22 20 32.77285	18.2	5454.0	1172.8	-17.79	9.035	17.306	0	-22.3	130.3
Ti470310	2047-06-19 13:50:13.95	18 03 36.74592 -22 20 28.11881	34.9	156.2	172.9	184.45	11.546	17.885	16.458	156.3	176.6
Pgt	4069859160850285184	18 03 36.74504 -22 20 28.27455	25.4	1023.6	1132.5	-17.35	9.035	17.731	0	-22.3	133.1
Ti470311	2047-06-19 20:57:03.77	18 03 31.94115 -22 20 24.28672	56.9	903.3	163.9	3.93	12.317	18.716	17.267	49.3	176.8
Pt	4069862081428023680	18 03 31.94561 -22 20 23.38559	41.6	5919.3	1073.5	-16.83	9.036	18.528	0	-22.3	136.7
Ti470312	2047-06-21 05:41:38.08	18 03 11.42659 -22 20 12.76999	7.0	370.6	110.0	0.05	10.698	14.861	13.764	276.7	178.1
Pgt	4069861531668436736	18 03 11.42662 -22 20 12.39943	4.9	2428.8	720.3	-15.06	9.037	14.553	0	-22.3	153.1
Ti470313	2047-06-21 16:22:57.60	18 03 05.12496 -22 20 14.48783	19.5	918.3	93.6	358.39	12.863	16.942	15.775	115.9	178.4
Pt	4069861222434451456	18 03 05.12310 -22 20 13.56990	13.8	6019.0	613.1	-14.78	9.037	16.613	0	-22.3	158.5
Ti470314	2047-06-22 01:46:53.00	18 02 59.65966 -22 20 17.29165	7.2	597.4	84.0	356.88	11.361	15.079	14.002	334.5	178.7
Pt	4069861398543236736	18 02 59.65732 -22 20 16.69515	4.9	3915.6	549.9	-14.67	9.037	14.742	0	-22.3	163.2
Ti470315	2047-06-22 03:18:51.72	18 02 58.76897 -22 20 17.32258	23.3	69.9	83.0	176.64	11.379	17.353	16.327	311.5	178.7
Pgt	4069861394229476352	18 02 58.76926 -22 20 17.39237	16.6	458.2	543.7	-14.66	9.037	17.016	0	-22.3	164.0
Ti470316	2047-06-22 12:48:27.98	18 02 53.27728 -22 20 24.01459	33.9	1145.7	81.9	355.16	8.200	16.570	14.903	168.7	178.9
P	4069861364165063424	18 02 53.27031 -22 20 22.87299	23.8	7509.4	536.2	-14.72	9.037	16.237	0	-22.3	168.8
Ti470317	2047-06-23 12:13:44.94	18 02 39.44645 -22 20 44.82992	48.7	276.4	108.3	352.18	13.872	17.891	16.784	176.3	178.7

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4069867239698780672	18 02 39.44373 -22 20 44.55606	37.1	1811.7	709.2	-15.45	9.036	17.611	0	-22.3	177.3
Ti470318	2047-06-24 05:20:14.62	18 02 28.76703 -22 21 06.30194	33.6	448.7	137.2	170.94	12.682	17.650	16.543	278.9	178.2
Pt	4069866994866785024	18 02 28.77212 -22 21 06.74501	23.4	2940.2	898.5	-16.48	9.035	17.439	0	-22.3	169.4
Ti470319	2047-06-24 14:46:13.14	18 02 22.56050 -22 21 19.91588	23.1	826.6	151.8	170.64	12.537	16.811	15.641	137.0	177.9
P	4069867720735144448	18 02 22.57019 -22 21 20.73153	16.3	5416.7	994.1	-17.19	9.035	16.647	0	-22.4	164.5
Ti470320	2047-06-25 02:27:19.55	18 02 14.50528 -22 21 39.27038	45.9	17.4	166.6	350.64	12.477	18.391	17.063	321.3	177.4
Pgt	4069867647705342848	18 02 14.50508 -22 21 39.25322	32.3	114.0	1090.9	-18.16	9.034	18.286	0	-22.4	158.2
Ti470321	2047-06-25 03:52:05.01	18 02 13.50106 -22 21 41.73419	9.2	180.8	168.0	350.64	11.406	15.857	14.598	300.0	177.4
Pgt	4069867652015016960	18 02 13.49895 -22 21 41.55577	6.5	1184.8	1100.6	-18.29	9.034	15.760	0	-22.4	157.5
Ti470322	2047-06-25 04:32:04.26	18 02 13.01077 -22 21 41.71232	26.6	945.8	168.7	170.66	12.450	17.594	16.558	290.0	177.4
Pt	4069867858173447936	18 02 13.02184 -22 21 42.64558	18.8	6196.8	1105.1	-18.35	9.034	17.500	0	-22.4	157.1
Ti470323	2047-06-25 14:30:19.82	18 02 05.68802 -22 21 58.67793	30.8	459.1	176.8	170.96	14.642	18.088	16.983	140.0	177.0
Pt	4069866415064446848	18 02 05.69323 -22 21 59.13129	22.0	3007.4	1157.9	-19.25	9.033	18.046	0	-22.4	151.7
Ti470324	2047-06-26 09:10:14.17	18 01 50.98667 -22 22 30.76573	13.3	953.2	180.8	352.02	12.934	18.612	0	219.2	176.2
Pt	4069868923325369344	18 01 50.97714 -22 22 29.82171	10.9	6243.8	1184.3	-20.99	9.031	18.665	0	-22.4	141.5
Ti470325	2047-06-26 14:27:31.97	18 01 46.55942 -22 22 37.21421	18.9	975.8	179.2	172.41	10.876	16.636	15.576	139.6	176.0
P	4069869095124068096	18 01 46.56871 -22 22 38.18145	12.4	6391.1	1173.9	-21.47	9.031	16.713	0	-22.4	138.6
Ti470326	2047-06-26 18:32:37.44	18 01 43.10121 -22 22 45.39400	27.5	935.6	177.2	352.73	12.127	17.449	16.063	78.1	175.8
Pt	4069868987735020544	18 01 43.09268 -22 22 44.46596	19.1	6127.4	1160.6	-21.83	9.030	17.544	0	-22.4	136.3
Ti470327	2047-06-27 00:46:29.21	18 01 37.66647 -22 22 52.75315	12.3	952.8	172.7	173.26	13.477	16.127	15.401	344.4	175.6
P	4069869026404602752	18 01 37.67453 -22 22 53.69932	8.5	6239.7	1131.7	-22.37	9.030	16.249	0	-22.4	132.9
Ti470328	2047-06-27 03:59:25.15	18 01 34.83158 -22 22 59.02995	11.1	762.0	169.9	353.54	11.963	15.899	14.765	296.0	175.4
Pt	4069869782318852352	18 01 34.82539 -22 22 58.27281	7.5	4990.2	1112.9	-22.64	9.030	16.034	0	-22.4	131.1
Ti470329	2047-06-27 12:35:22.84	18 01 27.03098 -22 23 08.85985	31.3	906.1	160.4	174.32	14.796	17.738	16.681	166.7	175.1
P	4069494505254011648	18 01 27.03745 -22 23 09.76153	21.9	5933.9	1050.7	-23.30	9.029	17.904	0	-22.4	126.3
Ti470330	2047-06-27 19:03:24.42	18 01 21.02809 -22 23 17.34243	38.8	258.3	151.7	174.93	11.635	18.323	17.189	69.4	174.8
Pgt	4069494604032885888	18 01 21.02973 -22 23 17.59975	26.8	1691.7	993.8	-23.76	9.029	18.511	0	-22.4	122.6
Ti470331	2047-06-27 23:53:01.52	18 01 16.47034 -22 23 22.23335	20.6	271.7	144.5	355.40	12.775	17.323	16.531	356.7	174.6
Pgt	4069494638383821568	18 01 16.46877 -22 23 22.95254	14.0	1779.1	946.6	-24.07	9.029	17.524	0	-22.4	119.9
Ti470332	2047-06-28 14:49:11.92	18 01 02.00664 -22 23 37.71752	56.6	1178.2	119.8	356.85	13.655	18.906	17.781	132.0	173.9
Pt	4069541127118573952	18 01 02.00198 -22 23 36.54105	40.1	7715.4	785.0	-24.85	9.029	19.142	0	-22.4	111.4
Ti470333	2047-06-28 18:19:56.57	18 00 58.53359 -22 23 38.43551	14.4	606.3	113.9	177.20	11.218	16.427	15.480	79.2	173.8
Pt	4069541298908660224	18 00 58.53573 -22 23 39.04108	9.8	3970.2	176.1	-24.99	9.029	16.669	0	-22.4	109.4
Ti470334	2047-06-28 18:49:04.32	18 00 58.05165 -22 23 38.38796	50.2	978.2	113.0	177.24	13.375	18.668	0	71.9	173.8
P	4069541303203548416	18 00 58.05505 -22 23 39.36502	35.9	6405.4	740.8	-25.01	9.029	18.911	0	-22.4	109.1
Ti470335	2047-06-29 06:31:56.05	18 00 46.36424 -22 23 46.36479	7.6	804.4	95.0	358.38	11.254	15.353	14.452	255.6	173.3
Pt	4069540611722438144	18 00 46.36260 -22 23 45.56071	5.3	5267.5	622.8	-25.34	9.029	15.610	0	-22.4	102.4
Ti470336	2047-06-29 11:41:41.97	18 00 41.16660 -22 23 46.64065	25.0	652.3	88.8	178.87	12.885	17.360	16.190	177.9	173.0
P	4069540577354152064	18 00 41.16753 -22 23 47.29278	16.4	4271.4	582.3	-25.42	9.029	17.620	0	-22.4	99.4
Ti470337	2047-06-29 13:18:21.06	18 00 39.54490 -22 23 48.93015	25.1	1222.5	87.3	359.02	12.464	17.401	16.359	153.7	173.0
P	4069540787823554176	18 00 39.54339 -22 23 47.70784	16.0	8005.7	571.9	-25.44	9.029	17.662	0	-22.4	98.5
Ti470338	2047-06-29 16:32:29.25	18 00 36.27897 -22 23 49.34229	35.8	980.3	84.6	359.32	13.131	17.955	16.694	105.0	172.8
Pt	4069540753463830016	18 00 36.27814 -22 23 48.36204	26.1	6419.9	554.6	-25.47	9.029	18.218	0	-22.4	96.6
Ti470339	2047-06-30 01:39:22.40	18 00 27.07474 -22 23 48.43390	9.7	497.0	82.0	180.16	10.954	15.694	14.467	327.9	172.4
Pt	4069543364803980160	18 00 27.07464 -22 23 48.93090	6.7	3255.0	537.4	-25.45	9.030	15.956	0	-22.4	91.3
Ti470340	2047-06-30 07:19:27.18	18 00 21.36176 -22 23 49.65384	6.2	1295.5	84.1	0.67	10.422	11.216	10.931	242.6	172.2
P	4069543326131233024	18 00 21.36289 -22 23 48.35779	4.3	8485.2	551.4	-25.38	9.031	11.475	0	-22.4	88.0
Ti470341	2047-06-30 11:27:55.69	18 00 17.20305 -22 23 47.36242	62.6	142.3	87.4	181.02	8.502	18.357	16.554	180.3	172.0
Pgt	4069543502242977792	18 00 17.20286 -22 23 47.50469	44.1	932.0	572.8	-25.30	9.031	18.613	0	-22.4	85.6
Ti470342	2047-06-30 20:23:25.79	18 00 08.29636 -22 23 44.41466	9.5	60.7	98.3	181.77	13.265	15.312	14.651	46.0	171.6

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _p (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _p (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4069537691134163968	18 00 08.29623 -22 23 44.47532	6.7	397.6	644.2	-25.05	9.032	15.557	0	-22.4	80.3
Ti470343	2047-07-01 06:01:24.86	17 59 58.81435 -22 23 38.24927	22.9	1259.7	113.6	182.54	13.081	17.320	16.190	261.1	171.2
P	4069538378327016960	17 59 58.81032 -22 23 39.50768	17.1	8253.0	744.9	-24.66	9.034	17.547	0	-22.4	74.6
Ti470344	2047-07-03 06:34:07.68	17 59 14.44052 -22 22 55.98824	46.9	301.8	183.1	5.33	12.154	18.448	17.209	250.7	169.1
Pgt	4069549583916892544	17 59 14.44254 -22 22 55.68771	31.7	1979.7	1201.1	-21.29	9.043	18.516	0	-22.4	45.5
Ti470345	2047-07-03 11:47:30.63	17 59 10.11093 -22 22 49.77124	18.9	228.2	186.7	185.48	12.604	16.858	15.830	172.2	168.9
Pgt	4069549618276646784	17 59 10.10936 -22 22 49.99838	13.0	1496.8	1225.1	-20.83	9.045	16.902	0	-22.4	42.3
Ti470346	2047-07-03 19:13:13.80	17 59 04.11331 -22 22 41.88979	56.3	3.5	190.2	185.55	13.705	18.485	17.286	60.4	168.6
Pgt	4069552263976516224	17 59 04.11329 -22 22 41.89324	38.6	22.7	1247.8	-20.16	9.046	18.494	0	-22.4	37.8
Ti470347	2047-07-05 13:01:54.47	17 58 34.03873 -22 22 00.92442	41.7	1135.6	170.3	184.64	12.875	18.104	16.891	151.4	166.8
P	4069529960192936320	17 58 34.03211 -22 22 02.05633	27.1	7459.8	1118.2	-16.47	9.057	17.893	0	-22.4	12.6
Ti470348	2047-07-05 21:37:28.49	17 58 28.57199 -22 21 56.47555	9.3	128.4	158.8	3.94	10.662	15.361	14.124	22.1	166.5
Pgt	4070280479958431616	17 58 28.57262 -22 21 56.34746	6.1	843.6	1042.9	-15.80	9.059	15.106	0	-22.4	7.6
Ti470349	2047-07-06 08:17:03.32	17 58 22.09336 -22 21 50.32833	16.6	660.3	142.1	182.82	13.750	16.769	15.812	221.8	166.0
Pt	4070280514318173056	17 58 22.09102 -22 21 50.98785	10.8	4339.9	933.4	-15.07	9.062	16.462	0	-22.4	2.6
Ti470350	2047-07-06 23:53:16.00	17 58 13.09348 -22 21 47.89526	12.4	840.0	115.2	0.68	12.096	16.061	14.933	347.0	165.4
Pt	4070280376879220992	17 58 13.09420 -22 21 47.05528	8.5	5523.3	757.0	-14.22	9.066	15.691	0	-22.4	8.9
Ti470351	2047-07-07 07:25:45.03	17 58 08.91061 -22 21 46.00044	10.1	971.4	102.8	179.47	12.535	14.953	14.183	233.6	165.0
P	4070281132793466112	17 58 08.91126 -22 21 46.97183	6.9	6388.4	675.3	-13.92	9.067	14.559	0	-22.4	13.3
Ti470352	2047-07-08 00:28:29.53	17 57 59.70665 -22 21 50.58841	37.3	813.0	83.3	176.52	12.367	17.923	16.814	337.2	164.3
P	4070281068405501312	17 57 59.71021 -22 21 51.39991	26.2	5348.6	547.3	-13.55	9.071	17.500	0	-22.4	23.2
Ti470353	2047-07-08 04:47:45.90	17 57 57.41478 -22 21 54.67701	58.9	1127.6	81.7	355.77	10.283	18.406	16.578	272.2	164.2
Pt	4070279797095185152	17 57 57.40878 -22 21 53.55253	41.0	7418.6	536.9	-13.53	9.072	17.981	0	-22.4	25.7
Ti470354	2047-07-08 15:27:03.97	17 57 51.72935 -22 21 59.46047	12.8	1161.4	84.8	174.00	12.678	16.091	15.062	111.9	163.7
P	4070279831454931200	17 57 51.73811 -22 22 00.61551	8.1	7642.9	557.7	-13.61	9.074	15.673	0	-22.4	31.8
Ti470355	2047-07-09 23:16:26.59	17 57 34.20743 -22 22 34.78681	30.9	446.2	131.0	170.36	11.032	17.902	16.674	353.2	162.4
Pt	4070282507182970368	17 57 34.21282 -22 22 35.22667	20.7	2937.6	862.0	-14.86	9.078	17.580	0	-22.4	49.7
Ti470356	2047-07-10 23:32:33.37	17 57 19.44430 -22 23 12.49890	33.6	821.9	165.4	349.79	8.092	16.575	14.877	348.1	161.4
Pt	4070277318865510784	17 57 19.43380 -22 23 11.68996	24.2	5413.5	1089.0	-16.62	9.081	16.374	0	-22.4	62.9
Ti470357	2047-07-11 05:33:00.94	17 57 15.49972 -22 23 21.11223	36.7	338.1	171.2	169.93	13.581	18.017	16.963	257.7	161.1
Pgt	4070277353222191104	17 57 15.50399 -22 23 21.44517	25.1	2227.2	1127.3	-17.12	9.082	17.848	0	-22.4	66.1
Ti470358	2047-07-11 18:53:41.51	17 57 06.33720 -22 23 43.26197	52.5	147.4	179.0	170.53	11.464	18.633	17.086	56.9	160.5
Pgt	4070277421946049152	17 57 06.33895 -22 23 43.40733	37.5	970.8	1179.2	-18.27	9.083	18.535	0	-22.4	73.2
Ti470359	2047-07-13 02:09:15.33	17 56 42.45821 -22 24 32.32919	32.7	710.5	168.1	353.05	10.706	18.060	16.879	306.7	159.2
Pt	4070287489344978304	17 56 42.45201 -22 24 31.62395	23.2	4682.2	1108.2	-20.87	9.087	18.106	0	-22.4	89.4
Ti470360	2047-07-13 03:45:38.56	17 56 41.14310 -22 24 34.52643	29.9	710.2	166.5	353.21	10.558	17.503	15.973	282.5	159.1
Pt	4070287489347246080	17 56 41.13704 -22 24 33.82123	21.2	4680.4	1097.6	-20.99	9.087	17.555	0	-22.4	90.2
Ti470361	2047-07-13 04:18:30.42	17 56 40.69660 -22 24 35.70120	30.7	1147.3	165.9	353.26	11.477	17.912	16.416	274.2	159.1
Pt	4070287489344977280	17 56 40.68689 -22 24 34.56182	21.6	7561.2	1093.9	-21.03	9.087	17.967	0	-22.4	90.5
Ti470362	2047-07-13 08:56:36.07	17 56 36.84102 -22 24 40.50335	10.9	142.6	160.7	173.73	12.776	15.998	15.018	204.5	158.9
Pgt	4070287528036653952	17 56 36.84215 -22 24 40.64514	7.6	940.1	1059.4	-21.35	9.088	16.069	0	-22.4	92.8
Ti470363	2047-07-13 14:22:04.74	17 56 32.27371 -22 24 48.52689	13.1	1213.4	153.7	354.27	10.783	16.113	14.805	122.9	158.7
P	4070288180871689472	17 56 32.26497 -22 24 47.31957	9.4	7997.9	1013.4	-21.71	9.088	16.202	0	-22.4	95.6
Ti470364	2047-07-13 17:06:29.06	17 56 29.92544 -22 24 50.82483	59.1	331.2	149.8	354.56	12.979	18.731	17.390	81.7	158.6
Pgt	4070288146473152000	17 56 29.92318 -22 24 50.49513	43.6	2183.2	988.1	-21.88	9.089	18.829	0	-22.4	97.0
Ti470365	2047-07-13 20:08:17.32	17 56 27.31554 -22 24 54.43897	72.6	595.9	145.3	354.87	11.641	18.516	16.838	36.1	158.4
Pt	4070288142183644032	17 56 27.31170 -22 24 53.84541	54.0	3928.5	958.6	-22.06	9.089	18.623	0	-22.4	98.5
Ti470366	2047-07-13 23:15:06.56	17 56 24.60752 -22 24 57.42405	60.6	320.1	140.5	355.20	12.037	18.654	17.164	349.3	158.3
Pgt	4070287837235521920	17 56 24.60559 -22 24 57.10505	45.7	2110.5	927.0	-22.23	9.090	18.769	0	-22.4	100.1
Ti470367	2047-07-14 04:01:21.66	17 56 20.41363 -22 25 00.88292	49.7	844.6	132.8	175.70	11.570	18.085		277.5	158.1

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	4070288009072531328	17 56 20.41819 -22 25 01.72512	38.0	5568.4	876.4	-22.47	9.091	18.212	0	-22.4	102.5
Ti470368*	2047-07-14 15:28:01.54	17 56 10.20042 -22 25 10.32990	111.3	527.7	113.7	176.92	10.472	18.628	16.787	105.3	157.6
Pt	4070287940353065472	17 56 10.20247 -22 25 10.85687	79.0	3480.2	750.2	-22.93	9.093	18.776	0	-22.4	108.2
Ti470369	2047-07-14 18:24:53.74	17 56 07.53889 -22 25 12.54589	48.1	198.9	108.8	177.23	11.930	18.570	17.106	60.9	157.5
Pgt	4070290890962659584	17 56 07.53958 -22 25 12.74454	32.6	1311.6	718.3	-23.01	9.093	18.723	0	-22.4	109.7
Ti470370	2047-07-14 19:49:16.29	17 56 06.26643 -22 25 13.81982	63.8	243.7	106.6	357.38	11.440	18.493	16.961	39.8	157.4
Pgt	4070290890962658048	17 56 06.26563 -22 25 13.57639	37.1	1607.2	703.4	-23.05	9.094	18.647	0	-22.4	110.4
Ti470371	2047-07-14 21:34:27.62	17 56 04.67826 -22 25 15.77884	60.2	1229.0	103.8	357.56	12.306	18.644	17.113	13.4	157.3
Pt	4070197054524616448	17 56 04.67450 -22 25 14.55091	41.0	8106.2	685.2	-23.09	9.094	18.801	0	-22.4	111.2
Ti470372	2047-07-15 04:10:08.03	17 55 58.66764 -22 25 18.55054	24.7	960.1	94.3	358.26	12.895	17.615	16.311	274.2	157.1
Pt	4070197299403940480	17 55 58.66553 -22 25 17.59086	16.8	6333.6	622.5	-23.21	9.095	17.777	0	-22.4	114.5
Ti470373	2047-07-15 07:19:50.66	17 55 55.77294 -22 25 17.70683	22.7	989.5	90.4	178.59	10.362	17.296	15.788	226.6	156.9
P	4070197196324735104	17 55 55.77470 -22 25 18.69607	15.1	6528.1	596.9	-23.25	9.096	17.460	0	-22.4	116.1
Ti470374	2047-07-15 08:28:55.47	17 55 54.72243 -22 25 19.90061	19.1	859.1	89.1	358.70	13.459	17.257	16.123	209.3	156.9
Pt	4070197196324737664	17 55 54.72103 -22 25 19.04173	12.9	5667.8	588.5	-23.26	9.096	17.421	0	-22.4	116.7
Ti470375	2047-07-15 10:55:18.94	17 55 52.48862 -22 25 20.94473	59.8	1270.7	86.7	358.96	13.030	18.854	17.446	172.6	156.8
P	4070197260683002368	17 55 52.48695 -22 25 19.67421	41.0	8384.0	572.6	-23.27	9.097	19.019	0	-22.4	117.9
Ti470376	2047-07-15 17:55:59.87	17 55 46.06537 -22 25 21.55659	42.4	817.2	82.3	359.67	12.140	18.215	16.738	67.1	156.5
Pt	4070197982229454848	17 55 46.06503 -22 25 20.73945	29.0	5392.5	543.3	-23.26	9.099	18.379	0	-22.4	121.4
Ti470377	2047-07-15 20:33:32.12	17 55 43.66245 -22 25 19.71189	19.5	1142.1	81.7	179.93	13.430	17.271	16.231	27.6	156.4
P	4070197608641631232	17 55 43.66255 -22 25 20.85403	13.3	7537.6	539.5	-23.24	9.099	17.434	0	-22.4	122.7
Ti470378	2047-07-17 00:17:48.47	17 55 18.67108 -22 25 13.43561	15.5	233.3	107.7	2.56	13.023	16.818	15.737	330.3	155.2
Pgt	4070243272736031232	17 55 18.67183 -22 25 13.20253	10.7	1541.2	711.9	-22.41	9.108	16.942	0	-22.4	136.4
Ti470379	2047-07-17 04:38:08.88	17 55 14.86742 -22 25 11.86954	34.0	1194.0	114.9	2.93	11.036	17.691	16.176	265.0	155.0
P	4070243474524755968	17 55 14.87183 -22 25 10.67715	24.7	7888.1	759.6	-22.19	9.109	17.804	0	-22.4	138.6
Ti470380	2047-07-17 19:46:55.81	17 55 01.95362 -22 24 59.76070	5.6	196.9	140.6	4.15	10.002	14.383	13.223	37.2	154.3
Pgt	4070244234808747520	17 55 01.95465 -22 24 59.56430	3.7	1301.8	930.1	-21.26	9.115	14.449	0	-22.4	146.1
Ti470381	2047-07-17 23:49:47.91	17 54 58.61239 -22 24 55.13635	8.6	938.3	147.1	184.45	11.199	15.527	14.373	336.3	154.1
P	4070243856851636736	17 54 58.60714 -22 24 56.07180	5.7	6203.7	973.4	-20.97	9.116	15.578	0	-22.4	148.2
Ti470382	2047-07-18 03:06:38.90	17 54 55.93555 -22 24 52.11842	20.6	990.1	152.2	184.68	11.582	16.984	15.662	286.9	154.0
P	4070244028650595456	17 54 55.92972 -22 24 53.10526	12.9	6547.5	1007.0	-20.72	9.118	17.023	0	-22.4	149.8
Ti470383**	2047-07-18 17:56:11.09	17 54 44.25740 -22 24 39.18315	9.8	697.2	171.8	5.61	11.544	13.924	13.141	63.9	153.4
Pt	4070246914868407552	17 54 44.26232 -22 24 38.48933	6.4	4613.1	1137.6	-19.51	9.123	13.897	0	-22.4	157.3
Ti470384	2047-07-18 22:35:12.13	17 54 40.74791 -22 24 34.90558	26.9	1306.6	176.7	5.86	12.210	17.552	15.973	353.9	153.2
P	4070246979216415488	17 54 40.75753 -22 24 33.60579	20.1	8647.7	1169.8	-19.10	9.125	17.502	0	-22.4	159.6
Ti470385	2047-07-19 20:35:58.01	17 54 25.25045 -22 24 09.43203	40.0	454.8	189.3	186.62	12.548	17.718	16.271	22.7	152.2
Pt	4070241997062120448	17 54 25.24667 -22 24 09.88376	27.9	3012.9	1254.3	-17.04	9.135	17.543	0	-22.4	170.7
Ti470386	2047-07-20 01:19:41.13	17 54 22.16091 -22 24 04.03639	35.3	845.9	189.6	186.69	12.335	17.588	16.127	311.6	152.0
P	4070242065773867648	17 54 22.15381 -22 24 04.87656	24.9	5605.6	1256.8	-16.58	9.137	17.384	0	-22.4	173.0
Ti470387 ^d	2047-07-20 02:00:31.87	17 54 21.72641 -22 24 02.88134	8.1	1291.3	189.6	186.69	13.092	17.702	16.168	301.4	152.0
P	4070242070118284160	17 54 21.71556 -22 24 04.16380	6.8	8557.1	1256.6	-16.51	9.137	17.494	0	-22.4	173.4
Ti470388 ^d	2047-07-20 02:05:56.97	17 54 21.65861 -22 24 03.94603	7.5	124.2	189.6	186.70	13.092	18.633	0	300.0	152.0
Pgt	4070242070118284416	17 54 21.65756 -22 24 04.06942	6.3	823.3	1256.6	-16.50	9.137	18.424	0	-22.4	173.4
Ti470389*	2047-07-20 03:06:07.17	17 54 21.01488 -22 24 03.10261	20.6	78.9	189.5	6.70	12.430	15.938	14.866	284.9	152.0
Pgt	4070242070144461056	17 54 21.01555 -22 24 03.02422	13.3	523.1	1256.2	-16.41	9.138	15.723	0	-22.4	173.9
Ti470390	2047-07-20 05:10:16.65	17 54 19.70376 -22 24 00.78062	22.9	105.1	189.3	186.71	12.118	17.203	15.893	253.8	151.9
Pgt	4070242031421848960	17 54 19.70288 -22 24 00.88504	15.0	696.8	1254.5	-16.21	9.139	16.975	0	-22.4	174.9
Ti470391	2047-07-20 14:17:13.69	17 54 14.12347 -22 23 50.55229	18.8	1264.3	186.1	186.62	8.428	15.566	13.956	116.6	151.5
P	4070241932705572096	17 54 14.11296 -22 23 51.80816	13.2	8383.4	1234.1	-15.33	9.143	15.277	0	-22.4	177.4
Ti470392	2047-07-20 17:23:43.84	17 54 12.27365 -22 23 49.38387	28.5	516.9	184.4	6.55	13.098	17.682	16.434	69.9	151.4

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4070241932705589376	17 54 12.27790 -22 23 48.87037	19.6	3427.8	1222.5	-15.04	9.144	17.372	0	-22.4	176.8
Ti470393* ^a	2047-07-20 19:56:18.05	17 54 10.80519 -22 23 46.28605	127.7	252.8	182.6	186.46	12.273	18.947		31.6	151.3
Pgt	4070241932680097152	17 54 10.80314 -22 23 46.53726	107.7	1676.9	1211.2	-14.80	9.145	18.620	0	-22.4	175.9
Ti470394 ^d	2047-07-20 20:04:00.85	17 54 10.72777 -22 23 46.59721	53.7	177.3	182.5	6.46	12.273	18.177	16.330	29.7	151.2
Pgt	4070241928334939264	17 54 10.72921 -22 23 46.42108	34.8	1175.7	1210.6	-14.78	9.145	17.849	0	-22.4	175.8
Ti470395	2047-07-20 21:50:03.99	17 54 09.71306 -22 23 45.54951	10.2	712.2	181.2	6.40	11.206	15.825	14.565	3.1	151.2
Pt	4070241932705611008	17 54 09.71878 -22 23 44.84177	6.8	4724.0	1201.8	-14.62	9.146	15.485	0	-22.4	175.0
Ti470396*	2047-07-21 04:23:44.01	17 54 06.07592 -22 23 37.96277	83.5	1340.3	175.3	186.07	12.532	17.358	15.960	264.4	150.9
P	4070253649377747072	17 54 06.06569 -22 23 39.29550	60.8	8893.1	1162.9	-14.02	9.149	16.972	0	-22.4	171.8
Ti470397	2047-07-21 05:07:28.78	17 54 05.66133 -22 23 39.72973	22.0	1023.2	174.6	6.03	11.987	17.205	15.858	253.4	150.9
Pt	4070253645006801792	17 54 05.66908 -22 23 38.71216	14.7	6789.8	1158.0	-13.95	9.149	16.814	0	-22.4	171.5
Ti470398	2047-07-21 08:46:59.61	17 54 03.71389 -22 23 34.87202	46.6	1025.8	170.6	185.79	13.563	18.347	16.819	198.4	150.7
P	4070253713725210624	17 54 03.70643 -22 23 35.89261	33.7	6808.2	1131.6	-13.63	9.151	17.931	0	-22.4	169.6
Ti470399	2047-07-21 20:28:30.98	17 53 57.72759 -22 23 28.47439	23.3	268.2	155.2	4.72	12.054	17.279	16.001	22.5	150.2
Pgt	4070253816806011136	17 53 57.72918 -22 23 28.20712	15.0	1780.8	1030.0	-12.66	9.156	16.782	0	-22.4	163.4
Ti470400	2047-07-21 23:14:44.96	17 53 56.37433 -22 23 26.83942	27.9	129.0	151.0	4.39	12.981	17.490	16.207	340.8	150.1
Pgt	4070253782444697856	17 53 56.37505 -22 23 26.71084	18.6	856.4	1002.5	-12.44	9.157	16.975	0	-22.4	162.0
Ti470401	2047-07-22 05:14:04.91	17 53 53.52342 -22 23 23.92371	40.9	17.2	141.5	183.59	13.256	18.229	16.924	250.7	149.9
Pgt	4070253851164180224	17 53 53.52334 -22 23 23.94092	26.2	114.6	939.7	-12.00	9.160	17.675	0	-22.4	158.7
Ti470402	2047-07-22 10:08:33.19	17 53 51.25946 -22 23 21.93491	41.0	233.6	133.3	182.85	13.140	18.038	16.774	176.9	149.7
Pgt	4070252373703492992	17 53 51.25862 -22 23 22.16822	24.2	1552.2	885.5	-11.67	9.162	17.454	0	-22.4	156.1
Ti470403	2047-07-22 14:55:11.96	17 53 49.11047 -22 23 21.34506	32.1	451.3	125.2	2.04	11.582	17.519	16.105	105.1	149.5
Pt	4070253133956468864	17 53 49.11163 -22 23 20.89407	20.4	2999.2	831.4	-11.38	9.164	16.906	0	-22.4	153.5
Ti470404 ^d	2047-07-22 15:46:42.65	17 53 48.73092 -22 23 20.93825	52.0	224.7	123.7	1.88	11.919	17.978	16.075	92.1	149.4
Pgt	4070253133956494848	17 53 48.73145 -22 23 20.71366	33.4	1493.5	821.6	-11.32	9.164	17.361	0	-22.4	153.0
Ti470405 ^d	2047-07-22 16:00:05.51	17 53 48.63251 -22 23 20.86689	61.0	197.7	123.3	1.84	11.919	18.441		88.8	149.4
Pgt	4070253129609677056	17 53 48.63297 -22 23 20.66924	46.5	1314.3	819.1	-11.31	9.164	17.822	0	-22.4	152.9
Ti470406	2047-07-23 21:10:30.28	17 53 36.50728 -22 23 25.29577	37.0	1270.8	83.2	355.48	11.850	17.672	16.296	9.9	148.2
P	4070253271420880128	17 53 36.50007 -22 23 24.02896	25.5	8456.7	553.0	-10.24	9.176	16.945	0	-22.4	136.7
Ti470407	2047-07-24 03:16:48.65	17 53 34.07571 -22 23 26.29658	45.8	811.2	81.0	174.05	13.069	18.082	16.836	278.1	148.0
P	4070253232696925952	17 53 34.08177 -22 23 27.10341	26.9	5399.8	538.7	-10.18	9.178	17.349	0	-22.4	133.3
Ti470408	2047-07-24 09:37:47.00	17 53 31.59231 -22 23 32.48236	26.3	1324.8	82.1	352.60	12.616	17.318	16.230	182.6	147.7
P	4070253301411575296	17 53 31.58001 -22 23 31.16860	17.2	8820.6	546.6	-10.19	9.180	16.585	0	-22.4	129.7
Ti470409 ^d	2047-07-25 03:18:45.83	17 53 24.56236 -22 23 47.17831	28.0	232.4	101.0	349.19	12.797	18.800		276.6	147.0
Pgt	4070255848377248128	17 53 24.55922 -22 23 46.95000	19.4	1548.6	672.5	-10.55	9.186	18.105	0	-22.4	119.6
Ti470410* ^a	2047-07-25 03:24:43.13	17 53 24.53273 -22 23 48.03958	71.4	1001.3	101.1	349.18	12.797	17.947	16.152	275.1	147.0
Pt	4070255844032205696	17 53 24.51917 -22 23 47.05609	41.1	6671.1	673.5	-10.55	9.186	17.252	0	-22.4	119.6
Ti470411	2047-07-25 11:46:42.88	17 53 21.10652 -22 23 57.03986	17.4	404.7	114.5	348.02	11.257	16.562	15.192	149.2	146.6
Pt	4070255809672466176	17 53 21.10047 -22 23 56.64395	11.2	2697.3	762.4	-10.88	9.189	15.901	0	-22.4	114.8
Ti470412	2047-07-25 16:30:44.45	17 53 19.11079 -22 24 01.96345	66.4	652.4	122.3	167.52	13.209	18.781		78.0	146.4
Pt	4070255814017793920	17 53 19.12096 -22 24 02.60040	40.6	4348.4	814.9	-11.11	9.190	18.143	0	-22.4	112.1
Ti470413	2047-07-26 01:17:04.67	17 53 15.34622 -22 24 14.67723	31.1	142.0	136.6	346.87	13.321	17.693	16.455	306.1	146.1
Pgt	4070255779681934336	17 53 15.34389 -22 24 14.53890	20.9	947.1	910.4	-11.60	9.193	17.101	0	-22.4	107.0
Ti470414	2047-07-26 08:20:49.37	17 53 12.20115 -22 24 25.99522	36.7	1142.7	147.3	346.62	12.805	17.483	16.235	199.8	145.8
P	4070232518147662208	17 53 12.18208 -22 24 24.88357	22.3	7620.4	981.7	-12.05	9.195	16.932	0	-22.4	102.9
Ti470415	2047-07-26 16:04:40.41	17 53 08.56621 -22 24 36.10506	36.3	720.4	157.5	166.59	13.136	17.484	16.271	83.5	145.4
Pt	4070232479410083456	17 53 08.57826 -22 24 36.80583	21.2	4805.5	1050.5	-12.59	9.197	16.981	0	-22.4	98.4
Ti470416*	2047-07-27 01:19:36.87	17 53 04.04247 -22 24 51.30712	12.3	362.0	167.4	166.85	10.499	14.365	13.342	304.4	145.1
Pgt	4070232449428293632	17 53 04.04841 -22 24 51.65962	8.5	2415.3	1116.6	-13.29	9.200	13.922	0	-22.4	93.0
Ti470417	2047-07-27 04:31:49.94	17 53 02.40501 -22 24 55.99783	97.7	928.4	170.1	167.01	12.742	18.483		256.2	144.9

Table 7 continued on next page

Table 7 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	4070232445088161408	17 53 02.42006	-22 24 56.90246	55.8	6195.2	1134.8	-13.54	9.201	18.060	0	-22.4	91.1
Ti470418 ^d	2047-07-27 08:56:25.23	17 53 00.14069	-22 25 05.02855	4.7	886.6	173.2	347.28	12.922	18.253	16.303	189.9	144.7
Pt	4070233170982848768	17 53 00.12661	-22 25 04.16372	3.6	5917.2	1155.6	-13.89	9.202	17.857	0	-22.4	88.5
Ti470419 ^d	2047-07-27 09:02:18.65	17 53 00.08772	-22 25 05.11595	4.0	810.1	173.2	347.28	12.922	18.415	16.363	188.4	144.7
Pt	4070233170940877056	17 53 00.07486	-22 25 04.32573	3.8	5406.6	1156.0	-13.90	9.202	18.020	0	-22.4	88.5
Ti470420	2047-07-27 15:37:58.57	17 52 56.53570	-22 25 15.70054	32.5	502.0	176.4	347.78	13.136	17.764	16.548	89.2	144.5
Pt	4070233170982895232	17 52 56.52803	-22 25 15.20996	23.2	3350.8	1177.2	-14.43	9.204	17.409	0	-22.4	84.6
Ti470421	2047-07-28 00:44:03.69	17 52 51.41126	-22 25 30.72655	30.7	655.5	177.7	348.61	12.716	17.724	16.404	312.3	144.1
Pt	4070232823044557568	17 52 51.40192	-22 25 30.08394	20.7	4377.0	1186.8	-15.16	9.206	17.423	0	-22.4	79.2
Ti470422	2047-07-28 07:26:37.29	17 52 47.43886	-22 25 39.85898	33.5	935.2	176.5	169.31	13.347	18.041	16.854	211.3	143.8
P	4070232926091026816	17 52 47.45137	-22 25 40.77795	21.7	6245.8	1178.7	-15.69	9.208	17.778	0	-22.4	75.3
Ti470423	2047-07-28 10:38:28.97	17 52 45.50180	-22 25 44.52574	34.6	1248.7	175.2	169.66	13.366	18.076	16.822	163.2	143.7
P	4070232930464871168	17 52 45.51796	-22 25 45.75416	23.1	8340.3	1170.5	-15.94	9.209	17.829	0	-22.4	73.4
Ti470424	2047-07-28 12:43:28.82	17 52 44.25107	-22 25 49.72322	18.3	789.6	174.2	349.90	11.802	16.905	15.603	131.9	143.6
Pt	4070232930464883456	17 52 44.24108	-22 25 48.94586	11.8	5274.2	1163.6	-16.10	9.210	16.669	0	-22.4	72.2
Ti470425	2047-07-28 14:30:55.27	17 52 43.13112	-22 25 51.52143	22.1	135.1	173.1	170.10	12.206	17.187	15.873	105.0	143.5
Pgt	4070232891731283712	17 52 43.13280	-22 25 51.65450	14.7	902.3	1156.8	-16.23	9.210	16.961	0	-22.4	71.1
Ti470426	2047-07-28 18:48:12.74	17 52 40.43646	-22 25 57.77411	28.5	226.3	170.1	170.61	12.383	17.424	15.828	40.4	143.3
Pgt	4070232964782807552	17 52 40.43912	-22 25 57.99741	19.1	1512.1	1137.0	-16.55	9.212	17.218	0	-22.4	68.6
Ti470427	2047-07-28 19:25:59.40	17 52 40.04345	-22 25 59.28822	19.4	382.8	169.6	350.69	12.137	16.869	15.669	31.0	143.3
Pgt	4070232960483329536	17 52 40.03898	-22 25 58.91046	13.0	2557.5	1133.7	-16.59	9.212	16.666	0	-22.4	68.2
Ti470428	2047-07-28 22:27:48.33	17 52 38.08998	-22 26 02.61472	35.6	627.1	167.0	171.06	12.906	17.901	16.546	345.4	143.2
Pt	4070231482977603328	17 52 38.09700	-22 26 03.23421	22.6	4190.1	1116.4	-16.80	9.213	17.712	0	-22.4	66.4
Ti470429	2047-07-29 04:19:05.26	17 52 34.27950	-22 26 12.01065	16.6	788.6	161.1	351.79	11.998	16.621	15.369	257.3	142.9
Pt	4070419121542324224	17 52 34.27138	-22 26 11.23011	10.7	5270.3	1076.8	-17.20	9.214	16.457	0	-22.4	63.0
Ti470430*	2047-07-29 05:26:12.84	17 52 33.52766	-22 26 12.49799	69.3	204.3	159.8	171.93	13.459	17.955	16.653	240.5	142.9
Pgt	4070419121542321536	17 52 33.52973	-22 26 12.70024	45.2	1365.2	1068.4	-17.27	9.215	17.796	0	-22.4	62.3
Ti470431	2047-07-29 06:51:49.85	17 52 32.57645	-22 26 14.28999	14.5	259.3	158.1	172.12	11.591	16.482	15.230	219.0	142.8
Pgt	4070419121504317696	17 52 32.57902	-22 26 14.54688	9.8	1733.3	1057.2	-17.36	9.215	16.328	0	-22.4	61.4
Ti470432*	2047-07-29 08:54:37.54	17 52 31.20461	-22 26 16.95797	56.3	181.8	155.6	172.37	12.744	17.791	16.378	188.2	142.7
Pgt	4070419121512138880	17 52 31.20635	-22 26 17.13816	37.1	1215.1	1040.4	-17.48	9.216	17.645	0	-22.4	60.2
Ti470433	2047-07-29 10:05:15.56	17 52 30.41856	-22 26 19.28812	8.2	696.7	154.1	352.53	10.942	15.156	14.001	170.5	142.7
Pt	4070419121532372992	17 52 30.41202	-22 26 18.59732	5.2	4657.1	1030.4	-17.55	9.216	15.014	0	-22.4	59.5
Ti470434	2047-07-29 17:19:44.90	17 52 25.45168	-22 26 26.77521	38.5	267.5	144.0	173.47	13.212	17.960	16.696	61.6	142.4
Pgt	4070419087149153280	17 52 25.45387	-22 26 27.04095	23.2	1788.3	963.3	-17.95	9.219	17.843	0	-22.4	55.2
Ti470435	2047-07-29 18:20:48.09	17 52 24.75847	-22 26 29.46625	29.9	1323.7	142.5	353.60	12.745	17.813	16.524	46.3	142.3
P	4070419052792658944	17 52 24.74782	-22 26 28.15082	19.0	8850.5	953.2	-18.00	9.219	17.699	0	-22.4	54.6
Ti470436	2047-07-29 18:46:54.09	17 52 24.44609	-22 26 28.71393	22.1	95.2	141.8	353.65	12.735	17.291	16.039	39.7	142.3
Pgt	4070419052784836992	17 52 24.44533	-22 26 28.61931	14.1	636.5	948.8	-18.02	9.219	17.178	0	-22.4	54.4
Ti470437	2047-07-29 23:07:38.39	17 52 21.39905	-22 26 32.60130	29.5	500.2	135.1	174.22	12.860	17.766	16.522	334.3	142.1
Pt	4070419258951086848	17 52 21.40268	-22 26 33.09899	18.8	3345.3	904.0	-18.23	9.221	17.665	0	-22.5	51.8
Ti470438	2047-07-30 00:47:29.09	17 52 20.22287	-22 26 33.97262	53.3	746.6	132.4	174.44	12.406	17.930	0	-22.5	142.0
Pt	4070419263346718208	17 52 20.22809	-22 26 34.71572	37.3	4993.2	886.2	-18.30	9.221	17.834	0	-22.5	50.8
Ti470439	2047-07-30 02:28:25.95	17 52 19.03850	-22 26 36.72706	44.9	435.5	129.7	354.66	13.726	18.108	16.930	284.0	142.0
Pt	4070418885389611520	17 52 19.03557	-22 26 36.29341	29.0	2913.0	868.1	-18.37	9.222	18.015	0	-22.5	49.8

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

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

Table 8. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 8 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Ti470440	2047-07-30 06:01:46.20	17 52 16.49292	-22 26 38.27269	28.0	1167.3	123.9	175.12	13.116	17.682	16.448	230.5	141.8
P	4070418949705619712	17 52 16.50008	-22 26 39.43582	18.2	7808.5	829.1	-18.50	9.223	17.597	0	-22.5	47.7
Ti470441	2047-07-30 07:21:29.28	17 52 15.54060	-22 26 39.34649	14.3	1199.7	121.7	175.30	11.469	16.422	15.141	210.5	141.8
P	4070418949705620096	17 52 15.54769	-22 26 40.54213	9.1	8025.2	814.4	-18.55	9.223	16.340	0	-22.5	46.9
Ti470442 ^d	2047-07-30 13:44:04.72	17 52 10.94222	-22 26 44.85438	34.6	472.0	111.1	176.13	11.859	17.530	0	114.6	141.5
Pt	4070419671297764480	17 52 10.94452	-22 26 45.32532	24.8	3158.3	744.2	-18.73	9.226	17.459	0	-22.5	43.1
Ti470443 ^d	2047-07-30 13:53:20.52	17 52 10.83369	-22 26 45.67961	22.8	250.0	110.9	356.15	11.859	16.820	15.504	112.3	141.5
Pgt	4070419671267934592	17 52 10.83247	-22 26 45.43018	14.5	1672.8	742.6	-18.74	9.226	16.749	0	-22.5	43.1
Ti470444	2047-07-30 16:51:56.84	17 52 08.66278	-22 26 46.25255	11.9	1098.8	106.1	176.53	11.462	15.954	14.767	67.5	141.4
P	4070419572584555776	17 52 08.66758	-22 26 47.34938	7.1	7353.4	710.7	-18.81	9.227	15.887	0	-22.5	41.3
Ti470445	2047-07-30 17:36:20.41	17 52 08.13156	-22 26 48.57999	23.8	785.4	105.0	356.63	13.193	17.431	16.266	56.4	141.3
Pt	4070419572584563328	17 52 08.12823	-22 26 47.79599	14.9	5255.8	702.9	-18.82	9.227	17.365	0	-22.5	40.9
Ti470446 ^d	2047-07-30 18:45:32.64	17 52 07.28714	-22 26 48.61567	40.5	148.0	103.2	356.78	12.207	17.068	15.518	39.0	141.3
Pgt	4070419572585837568	17 52 07.28654	-22 26 48.46794	26.3	990.2	691.0	-18.84	9.228	17.003	0	-22.5	40.2
Ti470447 ^d	2047-07-30 18:51:55.62	17 52 07.20905	-22 26 48.57601	38.2	47.7	103.0	356.78	12.207	17.856	0	37.4	141.3
Pgt	4070419572478832256	17 52 07.20886	-22 26 48.52842	28.4	319.0	689.9	-18.84	9.228	17.792	0	-22.5	40.1
Ti470448	2047-07-30 20:27:05.80	17 52 06.05318	-22 26 50.34130	16.3	942.3	100.6	357.00	10.926	16.449	15.068	13.5	141.2
Pt	4070419568178124928	17 52 06.04962	-22 26 49.40028	9.7	6306.9	673.9	-18.87	9.228	16.386	0	-22.5	39.2
Ti470449	2047-07-31 04:59:11.87	17 51 59.79029	-22 26 53.54678	8.9	424.6	89.3	358.09	13.519	15.391	14.690	245.1	140.8
Pt	4070413937585004032	17 51 59.78927	-22 26 53.12246	5.8	2842.6	598.3	-18.95	9.232	15.332	0	-22.5	34.1
Ti470450	2047-07-31 06:04:02.86	17 51 58.99492	-22 26 53.46521	24.2	11.7	88.1	178.23	13.260	17.548	16.374	228.9	140.8
Pgt	4070413933181028608	17 51 58.99494	-22 26 53.47689	16.1	78.2	590.5	-18.95	9.232	17.490	0	-22.5	33.5
Ti470451*	2047-07-31 09:01:53.44	17 51 56.81599	-22 26 54.13245	32.8	181.8	85.3	178.60	12.759	17.173	15.934	184.3	140.7
Pgt	4070413933209950208	17 51 56.81631	-22 26 54.31415	20.6	1217.2	571.5	-18.95	9.233	17.114	0	-22.5	31.7
Ti470452	2047-07-31 10:25:40.42	17 51 55.78983	-22 26 54.44495	21.0	195.4	84.1	178.77	13.011	17.216	16.048	163.3	140.6
Pgt	4070413937475550720	17 51 55.79013	-22 26 54.64033	14.0	1308.8	564.0	-18.95	9.234	17.157	0	-22.5	30.9
Ti470453	2047-07-31 16:33:33.43	17 51 51.29010	-22 26 54.72097	15.4	838.0	81.0	179.54	11.600	16.562	15.284	71.0	140.3
P	4070413971944808448	17 51 51.29059	-22 26 55.55894	9.7	5613.6	543.3	-18.89	9.236	16.500	0	-22.5	27.3
Ti470454	2047-07-31 20:02:32.70	17 51 48.74267	-22 26 54.43046	35.3	1281.9	80.7	179.97	12.443	18.010	16.713	18.6	140.2
P	4070416819409628672	17 51 48.74272	-22 26 55.71231	21.7	8588.4	541.1	-18.84	9.238	17.944	0	-22.5	25.2
Ti470455	2047-07-31 21:23:33.51	17 51 47.75748	-22 26 54.98332	32.0	717.7	80.8	180.13	12.994	17.795	16.501	358.3	140.1
P	4070416819399059584	17 51 47.75736	-22 26 55.70100	20.5	4808.8	542.2	-18.81	9.238	17.728	0	-22.5	24.4
Ti470456	2047-08-01 10:19:20.29	17 51 38.41741	-22 26 54.27718	59.1	621.4	89.8	1.68	13.201	18.058	16.793	163.8	139.6
Pt	4070416681970667264	17 51 38.41872	-22 26 53.65603	36.5	4166.4	602.9	-18.43	9.244	17.970	0	-22.5	16.8
Ti470457	2047-08-01 11:32:26.87	17 51 37.54832	-22 26 54.11767	16.0	829.1	91.3	1.82	13.976	16.396	15.483	145.5	139.5
Pt	4070416686364221440	17 51 37.55022	-22 26 53.28896	10.1	5559.4	612.6	-18.38	9.245	16.304	0	-22.5	16.1
Ti470458	2047-08-01 15:17:03.52	17 51 34.89381	-22 26 53.28323	29.1	1301.5	96.2	2.25	12.902	17.702	16.430	89.2	139.4
P	4070416686254843776	17 51 34.89749	-22 26 51.98273	18.8	878.4	645.5	-18.22	9.247	17.601	0	-22.5	13.9
Ti470459	2047-08-02 07:32:50.04	17 51 23.70653	-22 26 42.84170	62.2	580.3	122.0	184.06	13.238	18.230	16.792	204.5	138.7
Pt	4070417442279464832	17 51 23.70357	-22 26 43.42053	34.3	3895.0	819.6	-17.34	9.255	18.075	0	-22.5	4.8
Ti470460	2047-08-02 15:36:51.92	17 51 18.39621	-22 26 37.18240	23.2	467.1	135.5	184.90	12.324	17.300	16.033	83.1	138.3
Pt	4070417614078213120	17 51 18.39333	-22 26 37.64775	14.3	3136.5	910.3	-16.79	9.259	17.110	0	-22.5	2.6
Ti470461 ^d	2047-08-02 19:11:02.97	17 51 16.09638	-22 26 35.82665	10.3	1009.8	141.2	5.27	12.259	16.831	15.275	29.4	138.2
P	4070416132234673024	17 51 16.10307	-22 26 34.82107	7.4	6782.9	949.1	-16.52	9.261	16.623	0	-22.5	3.7
Ti470462 ^d	2047-08-02 19:14:11.17	17 51 16.06132	-22 26 36.05419	12.7	1281.1	141.3	5.27	12.259	17.340	0	28.7	138.2
P	4070416136609484544	17 51 16.06981	-22 26 34.77853	10.8	8604.7	949.7	-16.52	9.261	17.132	0	-22.5	3.7
Ti470463	2047-08-02 21:44:54.36	17 51 14.47453	-22 26 33.74485	18.7	1051.7	145.2	5.52	12.265	16.678	15.433	350.9	138.1

Table 8 continued on next page

Table 8 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4070416136609502720	17 51 14.48183 -22 26 32.69804	11.0	7065.0	976.2	-16.33	9.262	16.458	0	-22.5	4.9
Ti470464	2047-08-02 23:54:48.25	17 51 13.12704 -22 26 31.13755	22.4	289.4	148.5	5.73	12.421	17.279	16.036	318.3	138.0
Pgt	4070416205328995456	17 51 13.12913 -22 26 30.84955	13.5	1944.7	998.4	-16.15	9.264	17.047	0	-22.5	6.0
Ti470465	2047-08-03 07:24:53.20	17 51 08.56046 -22 26 24.13542	10.4	43.4	159.1	6.45	9.777	15.487	14.109	205.4	137.7
Pgt	4070427922003803008	17 51 08.56081 -22 26 24.09225	6.2	292.0	1070.2	-15.53	9.268	15.213	0	-22.4	10.2
Ti470466	2047-08-03 09:20:16.12	17 51 07.41086 -22 26 23.42036	51.8	1145.4	161.6	6.62	12.688	18.262	16.459	176.5	137.6
P	4070427921898961408	17 51 07.42038 -22 26 22.28263	33.7	7699.6	1087.2	-15.37	9.269	17.975	0	-22.4	11.3
Ti470467	2047-08-03 11:10:40.71	17 51 06.34047 -22 26 20.60895	22.8	84.0	163.9	6.78	9.227	16.119	14.534	148.8	137.5
Pgt	4070427922003821440	17 51 06.34118 -22 26 20.52550	14.7	565.0	1102.7	-15.20	9.270	15.821	0	-22.4	12.3
Ti470468	2047-08-03 16:01:30.66	17 51 03.55368 -22 26 16.06265	29.9	272.3	169.5	7.19	12.667	17.710	16.445	75.9	137.3
Pgt	4070427883234870016	17 51 03.55614 -22 26 15.79253	18.3	1831.0	1140.6	-14.77	9.273	17.380	0	-22.4	15.1
Ti470469*	2047-08-04 09:03:55.71	17 50 54.45965 -22 25 58.29320	28.8	136.3	183.1	188.44	11.334	16.070	14.774	179.6	136.6
Pgt	4070428128162372096	17 50 54.45821 -22 25 58.42805	16.4	917.8	1233.1	-13.14	9.283	15.614	0	-22.4	24.8
Ti470470*	2047-08-04 09:56:36.89	17 50 54.02320 -22 25 57.17964	40.8	346.3	183.5	188.50	11.735	16.926	15.547	166.4	136.6
Pgt	4070428123753070592	17 50 54.01951 -22 25 57.52209	24.7	2331.2	1236.0	-13.05	9.283	16.463	0	-22.4	25.3
Ti470471 ^d	2047-08-04 11:44:19.13	17 50 53.12483 -22 25 56.33373	7.9	669.4	184.3	8.60	11.813	14.986	13.949	139.4	136.5
Pt	4070428123782591616	17 50 53.13206 -22 25 55.67184	4.6	4507.6	1241.4	-12.87	9.284	14.507	0	-22.4	26.3
Ti470472 ^d	2047-08-04 11:45:45.06	17 50 53.12172 -22 25 55.52062	3.5	128.1	184.3	188.60	11.813	17.677	13.910	139.0	136.5
Pgt	4070428128162385536	17 50 53.12034 -22 25 55.64726	2.5	862.4	1241.4	-12.87	9.284	17.198	0	-22.4	26.3
Ti470473	2047-08-04 12:22:54.96	17 50 52.83099 -22 25 53.74071	42.3	1283.5	184.6	188.64	12.739	18.012	16.746	129.7	136.5
P	4070428128055661696	17 50 52.81709 -22 25 55.00964	26.8	8642.8	1243.1	-12.81	9.284	17.528	0	-22.4	26.7
Ti470474*	2047-08-05 12:50:17.79	17 50 42.03024 -22 25 32.27577	81.4	1238.8	182.5	9.37	13.400	18.125	16.362	121.8	135.4
P	4070428540479371520	17 50 42.04478 -22 25 31.05347	52.9	8355.0	1231.2	-10.35	9.299	17.409	0	-22.4	40.5
Ti470475	2047-08-05 19:25:16.92	17 50 39.53039 -22 25 26.14984	38.3	812.9	178.2	9.26	13.204	18.024	16.761	22.8	135.2
Pt	4070428639159557760	17 50 39.53983 -22 25 25.34749	24.5	5485.1	1202.4	-9.70	9.303	17.237	0	-22.4	44.2
Ti470476	2047-08-06 01:17:04.97	17 50 37.43618 -22 25 21.37331	12.1	718.3	173.1	9.02	8.505	14.780	13.290	294.6	134.9
Pt	4070428639149186688	17 50 37.44430 -22 25 20.66394	7.9	4848.0	1168.4	-9.13	9.306	13.929	0	-22.4	47.4
Ti470477*	2047-08-08 03:24:21.28	17 50 23.93685 -22 25 02.00146	62.5	1015.2	99.0	177.33	13.112	17.936	16.583	260.6	132.9
P	4068930490206063232	17 50 23.94026 -22 25 03.01557	37.7	6873.6	670.3	-5.44	9.335	16.523	0	-22.4	74.6
Ti470478	2047-08-08 17:26:46.57	17 50 21.17131 -22 25 08.09331	9.8	1054.0	82.9	350.48	9.801	15.561	14.185	49.4	132.3
P	4068930662004776960	17 50 21.15873 -22 25 07.05386	6.1	7141.7	561.3	-5.03	9.343	14.063	0	-22.4	81.9
Ti470479	2047-08-09 00:01:54.85	17 50 19.93901 -22 25 11.21472	26.8	798.9	79.9	347.14	11.346	17.583	16.086	310.4	132.0
Pt	4068930662004786944	17 50 19.92619 -22 25 10.43583	16.3	5415.5	541.6	-4.96	9.346	16.069	0	-22.4	85.4
Ti470480	2047-08-09 16:52:26.53	17 50 16.86593 -22 25 24.13740	25.3	870.4	88.3	339.76	12.829	17.614	16.360	57.0	131.4
P	4068930554563655168	17 50 16.84421 -22 25 23.32073	15.3	5905.5	599.0	-5.12	9.355	16.135	0	-22.4	94.0
Ti470481	2047-08-10 18:49:13.73	17 50 11.74145 -22 25 52.97784	19.9	1026.3	127.1	154.77	12.460	17.178	15.958	26.8	130.3
P	4068930593285354624	17 50 11.77300 -22 25 53.90620	12.2	6971.7	863.2	-6.17	9.367	15.901	0	-22.4	107.2
Ti470482	2047-08-11 08:59:54.57	17 50 08.58300 -22 26 15.92548	42.6	1105.4	148.2	335.14	13.685	18.327	17.125	173.5	129.7
P	4068930215328245760	17 50 08.54948 -22 26 14.92252	25.8	7514.4	1006.9	-7.01	9.373	17.190	0	-22.4	114.3
Ti470483	2047-08-12 14:37:18.37	17 50 00.17413 -22 27 03.76559	33.0	38.9	173.2	339.62	12.798	17.952	16.741	87.9	128.5
Pg	4068930833803578880	17 50 00.17315 -22 27 03.72914	19.1	264.7	1179.4	-9.10	9.385	17.098	0	-22.5	129.0
Ti470484	2047-08-12 15:17:01.12	17 49 59.97134 -22 27 05.37920	31.5	576.5	173.4	339.76	12.668	18.088	16.731	77.9	128.5
Pt	4068930829481078272	17 49 59.95695 -22 27 04.83834	19.8	3924.1	1180.7	-9.15	9.386	17.239	0	-22.5	129.3
Ti470485	2047-08-13 02:19:11.77	17 49 56.14781 -22 27 22.74112	29.9	375.8	173.8	162.00	12.484	17.821	16.550	271.9	128.0
Pgt	4068930868163340032	17 49 56.15618 -22 27 23.09855	17.9	2559.5	1183.9	-9.95	9.390	17.063	0	-22.5	134.7
Ti470486	2047-08-13 05:49:19.23	17 49 54.89353 -22 27 29.65127	46.4	944.3	172.8	342.74	13.460	18.565	16.999	219.2	127.9
Pt	4068929390694596480	17 49 54.87332 -22 27 28.74946	29.7	6432.3	1177.7	-10.20	9.392	17.834	0	-22.5	136.5
Ti470487	2047-08-13 20:36:03.84	17 49 49.05501 -22 27 50.63308	37.1	726.2	163.5	165.86	12.796	17.629	16.313	356.9	127.3
P	4068929558137565184	17 49 49.06781 -22 27 51.33727	23.3	4949.8	1115.2	-11.18	9.398	16.998	0	-22.5	143.8
Ti470488	2047-08-14 02:41:20.90	17 49 46.50076 -22 27 59.70715	26.2	166.8	157.4	167.14	12.794	17.606	16.385	265.3	127.0

Table 8 continued on next page

Table 8 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _p (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		$\sigma(\delta_*)$ (km)	C/A (km)	C/A _p (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4068929459414126080	17 49 46.50344	-22 27 59.86978	15.6	1137.4	1073.7	-11.55	9.401	17.010	0	-22.5	146.8
Ti470489	2047-08-14 06:00:24.14	17 49 45.05396	-22 28 03.43508	41.7	874.0	153.5	167.83	13.290	17.990	16.749	215.4	126.9
P	4068929455051616768	17 49 45.06725	-22 28 04.28946	22.3	5960.1	1047.6	-11.73	9.402	17.410	0	-22.5	148.4
Ti470490*	2047-08-14 08:55:31.17	17 49 43.78808	-22 28 08.41089	48.0	385.9	149.9	348.43	12.721	17.381	16.006	171.5	126.8
Pt	4068929455051604736	17 49 43.78250	-22 28 08.03281	27.2	2632.0	1022.9	-11.88	9.403	16.815	0	-22.5	149.9
Ti470491	2047-08-14 12:07:46.95	17 49 42.33602	-22 28 10.95720	21.3	1039.9	145.6	169.09	11.597	17.046	15.938	123.3	126.6
P	4068929493773089152	17 49 42.35022	-22 28 11.97830	12.8	7093.3	993.8	-12.04	9.405	16.495	0	-22.5	151.5
Ti470492	2047-08-14 12:59:52.47	17 49 41.95052	-22 28 12.43924	17.8	587.7	144.4	169.26	9.297	16.019	14.458	110.3	126.6
Pt	4068929493773089792	17 49 41.95841	-22 28 13.01664	10.9	4008.9	985.7	-12.08	9.405	15.472	0	-22.5	151.9
Ti470493	2047-08-14 17:03:42.97	17 49 40.10828	-22 28 18.00976	26.9	317.6	138.5	350.09	12.596	17.622	16.352	49.1	126.4
Pgt	4068929493773097216	17 49 40.10433	-22 28 17.69691	17.1	2166.8	945.9	-12.27	9.407	17.091	0	-22.5	153.9
Ti470494	2047-08-15 01:52:01.83	17 49 35.99902	-22 28 28.01913	34.5	1267.5	124.9	351.84	12.845	17.950	16.659	276.7	126.0
P	4068976046856786432	17 49 35.98605	-22 28 26.76441	20.3	8651.9	853.0	-12.60	9.411	17.448	0	-22.5	158.3
Ti470495	2047-08-15 05:26:15.19	17 49 34.27373	-22 28 29.05147	16.4	957.4	119.1	172.54	12.938	16.918	15.932	223.0	125.9
P	4068976012497048192	17 49 34.28269	-22 28 30.00077	9.9	6536.2	813.8	-12.70	9.413	16.425	0	-22.5	160.1
Ti470496	2047-08-15 06:20:45.39	17 49 33.83713	-22 28 29.74395	9.5	1046.7	117.6	172.72	10.811	15.604	14.387	209.3	125.9
P	4068976016876940416	17 49 33.84670	-22 28 30.78224	5.7	7146.4	803.8	-12.73	9.413	15.114	0	-22.5	160.5
Ti470497	2047-08-15 15:44:16.56	17 49 29.28287	-22 28 36.95498	5.6	887.9	102.7	174.52	11.923	14.511	13.726	68.0	125.5
Pt	4068975982517221120	17 49 29.28899	-22 28 37.83882	3.4	6064.9	702.2	-12.92	9.418	14.037	0	-22.5	165.2
Ti470498	2047-08-15 19:40:10.23	17 49 27.35907	-22 28 39.90308	18.6	325.9	96.9	175.26	12.096	16.734	15.477	8.9	125.3
Pgt	4068975978144082688	17 49 27.36102	-22 28 40.22792	11.4	2226.9	662.7	-12.96	9.420	16.263	0	-22.5	167.2
Ti470499	2047-08-16 07:55:05.93	17 49 21.32882	-22 28 46.00421	16.7	507.4	83.0	357.52	11.364	16.301	14.976	184.6	124.8
Pt	4068976154315955200	17 49 21.32724	-22 28 45.49727	9.9	3469.1	567.9	-12.97	9.427	15.831	0	-22.5	173.2
Ti470500**	2047-08-16 15:03:07.40	17 49 17.82542	-22 28 46.88179	25.1	172.6	79.5	178.80	12.743	16.945	15.736	77.3	124.5
Pgt	4068970343140214528	17 49 17.82568	-22 28 47.05434	15.1	1180.5	544.0	-12.87	9.431	16.466	0	-22.5	176.4
Ti470501	2047-08-16 17:25:55.95	17 49 16.66421	-22 28 47.28965	14.9	40.6	79.2	179.24	12.182	16.620	15.422	41.5	124.4
Pgt	4068970347517662976	17 49 16.66425	-22 28 47.33026	8.9	277.8	542.5	-12.82	9.432	16.137	0	-22.5	177.2
Ti470502	2047-08-16 18:32:41.01	17 49 16.12221	-22 28 46.38214	12.7	1035.9	79.3	179.43	13.541	16.448	15.554	24.8	124.3
P	4068970343140199040	17 49 16.12296	-22 28 47.41800	7.8	7086.9	542.9	-12.80	9.433	15.964	0	-22.5	177.4
Ti470503	2047-08-16 23:04:34.17	17 49 13.93048	-22 28 47.67332	22.2	165.8	80.5	0.23	13.755	17.328	16.314	316.6	124.2
Pgt	4068970313157969664	17 49 13.93053	-22 28 47.50755	14.2	1134.4	551.7	-12.68	9.435	16.833	0	-22.5	177.1
Ti470504	2047-08-17 04:24:49.46	17 49 11.37969	-22 28 46.52338	14.9	549.9	84.2	181.17	11.593	16.677	15.394	236.3	123.9
Pt	4068971069072264448	17 49 11.37888	-22 28 47.07317	9.3	3764.3	576.7	-12.50	9.438	16.167	0	-22.5	175.0
Ti470505	2047-08-17 05:51:34.46	17 49 10.69312	-22 28 47.59946	15.8	742.1	85.5	1.43	12.093	16.616	15.299	214.5	123.9
Pt	4068971069072274688	17 49 10.69445	-22 28 46.85755	10.4	5080.7	585.9	-12.45	9.439	16.101	0	-22.5	174.3
Ti470506	2047-08-17 09:24:55.70	17 49 09.02609	-22 28 45.76816	26.1	386.5	89.3	182.05	13.060	17.663	16.525	161.1	123.7
Pt	4068970965993090048	17 49 09.02509	-22 28 46.15440	17.1	2646.5	612.2	-12.30	9.441	17.135	0	-22.5	172.6
Ti470507**	2047-08-17 13:43:52.77	17 49 07.02538	-22 28 45.81579	60.3	836.8	94.8	2.81	13.371	18.050	16.701	96.1	123.5
Pt	4068971030338013184	17 49 07.02834	-22 28 44.98001	35.4	5731.5	650.1	-12.10	9.444	17.505	0	-22.5	170.4
Ti470508	2047-08-17 21:17:54.67	17 49 03.62327	-22 28 40.88571	28.8	1233.4	106.0	184.13	13.135	17.898	16.690	342.3	123.2
P	4068971030447655168	17 49 03.61686	-22 28 42.11588	17.2	8452.1	727.3	-11.70	9.449	17.316	0	-22.5	166.5
Ti470509	2047-08-18 06:01:06.48	17 48 59.85965	-22 28 36.36746	19.5	1288.6	120.1	185.66	12.265	17.217	15.994	211.1	122.9
P	4068971202133770392	17 48 59.85048	-22 28 37.64982	11.9	8836.0	824.5	-11.16	9.454	16.584	0	-22.5	161.9
Ti470510	2047-08-18 21:36:05.85	17 48 53.65809	-22 28 25.88487	43.7	1187.4	144.7	188.44	13.836	18.481	17.282	336.7	122.2
P	4068973847946040704	17 48 53.64552	-22 28 27.05938	27.7	8150.4	994.3	-9.99	9.464	17.727	0	-22.5	153.5
Ti470511	2047-08-19 21:17:59.73	17 48 45.76944	-22 28 05.86351	25.7	809.9	172.6	192.96	12.815	17.311	16.074	340.2	121.2
P	4068973882305611008	17 48 45.75634	-22 28 06.65278	15.5	5568.8	1187.2	-7.86	9.481	16.297	0	-22.5	140.3
Ti470512	2047-08-19 23:20:11.72	17 48 45.15524	-22 28 05.90127	7.7	1165.8	174.2	13.37	12.676	16.692	0	309.6	121.1
Pt	4068973783439240832	17 48 45.17470	-22 28 04.76710	6.7	8017.1	1198.5	-7.66	9.482	15.651	0	-22.5	139.2
Ti470513	2047-08-20 08:22:51.42	17 48 42.80488	-22 27 55.35264	13.5	1008.5	179.6	195.29	13.236	16.352	15.336	173.5	120.8

Table 8 continued on next page

Table 8 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	4068973989650583040	17 48 42.78569 -22 27 56.32539	8.1	6939.8	1236.7	-6.77	9.488	15.176	0	-22.5	134.1
Ti470514	2047-08-21 01:56:30.94	17 48 39.09669 -22 27 39.15722	35.8	1242.7	181.8	199.55	12.210	17.780	16.600	269.4	120.1
P	4068974053992153600	17 48 39.06669 -22 27 40.32834	21.8	8563.4	1253.1	-4.999	9.501	16.271	0	-22.5	124.0
Ti470515	2047-08-21 06:26:25.86	17 48 38.33616 -22 27 35.51251	26.7	1029.9	180.5	200.81	12.764	17.347	16.090	201.7	119.9
P	4068974053992153344	17 48 38.30976 -22 27 36.47524	16.8	7099.5	1244.4	-4.53	9.504	15.735	0	-22.5	121.4
Ti470516	2047-08-21 09:32:59.69	17 48 37.85455 -22 27 33.14124	15.7	817.6	179.1	201.75	11.563	16.565	15.232	155.0	119.7
P	4068974058370186240	17 48 37.83269 -22 27 33.90061	9.8	5636.8	1235.4	-4.21	9.506	14.875	0	-22.5	119.6
Ti470517	2047-08-21 16:34:59.79	17 48 36.89695 -22 27 28.20170	17.4	211.8	174.8	204.11	12.342	16.131	15.047	49.2	119.5
Pgt	4068974775546670720	17 48 36.89071 -22 27 28.39502	10.4	1461.0	1206.2	-3.51	9.511	14.242	0	-22.5	115.5
Ti470518	2047-08-25 11:03:11.29	17 48 37.46518 -22 27 29.54491	19.3	432.7	82.3	41.74	12.550	16.904	15.738	128.4	115.8
Pt	4068974053992156288	17 48 37.48596 -22 27 29.22207	11.6	3003.8	571.6	2.66	9.572	14.713	0	-22.5	61.5
Ti470519	2047-08-25 15:35:18.45	17 48 37.85454 -22 27 33.14134	15.8	647.3	86.6	224.78	11.563	16.565	15.232	60.2	115.6
P	4068974058370186240	17 48 37.82165 -22 27 33.60082	9.9	4494.6	601.7	2.76	9.574	14.416	0	-22.5	58.8
Ti470520	2047-08-26 11:47:45.33	17 48 39.20686 -22 27 57.42776	9.4	685.1	115.4	240.52	10.863	15.521	14.311	116.3	114.8
P	4068974024010386688	17 48 39.16383 -22 27 57.76489	5.6	4762.9	802.6	3.03	9.586	13.471	0	-22.5	46.7
Ti470521	2047-08-27 14:45:18.72	17 48 40.01176 -22 28 39.24125	7.7	9.9	153.3	268.94	8.829	14.389	13.012	70.8	113.8
Pgt	4068973955290833152	17 48 40.01104 -22 28 39.24143	4.7	69.3	1067.5	3.23	9.600	12.409	0	-22.5	30.7
Ti470522	2047-08-28 05:49:12.02	17 48 39.66263 -22 29 04.58996	11.2	1254.5	165.9	106.86	11.309	15.951	14.726	204.2	113.2
P	4068973955290803968	17 48 39.74925 -22 29 04.95372	7.1	8741.8	1156.8	-3.49	9.608	14.056	0	-22.5	21.9
Ti470523	2047-08-28 16:15:04.52	17 48 39.15646 -22 29 22.61978	14.8	704.0	169.8	118.57	11.810	16.489	15.279	47.3	112.7
Pt	4068972477822726400	17 48 39.20107 -22 29 22.95651	8.8	4908.8	1184.3	-3.78	9.614	14.681	0	-22.5	15.9
Ti470524	2047-08-29 00:49:14.80	17 48 38.46692 -22 29 36.96950	45.3	886.6	169.5	127.27	11.854	18.097	14.491	278.4	112.4
P	4068972267285433856	17 48 38.51783 -22 29 37.50641	28.4	6184.5	1183.5	-4.07	9.618	16.370	0	-22.5	11.0
Ti470525	2047-08-29 16:28:31.85	17 48 36.74311 -22 30 02.77155	35.0	98.0	161.6	320.67	13.460	17.677	16.496	42.9	111.7
Pgt	406897232954117632	17 48 36.73862 -22 30 02.69575	22.2	684.2	1129.0	-4.67	9.626	16.099	1	-22.5	2.9
Ti470526	2047-08-30 05:33:17.37	17 48 34.80346 -22 30 22.36794	17.4	947.9	148.3	329.62	12.638	16.836	15.715	206.2	111.2
P	4068972439083980672	17 48 34.76886 -22 30 21.55014	10.8	6622.9	1037.1	-5.16	9.633	15.365	0	-22.5	6.3
Ti470527	2047-08-31 14:58:43.36	17 48 28.32447 -22 30 57.53199	22.1	1217.5	98.9	346.48	12.362	16.901	15.692	63.4	109.8
P	4068972306023410048	17 48 28.30393 -22 30 56.34817	13.6	8523.2	693.4	-5.87	9.652	15.571	0	-22.5	24.9
Ti470528	2047-09-01 09:10:23.64	17 48 24.42310 -22 31 06.79148	12.6	1134.7	79.2	353.84	11.346	15.841	15.008	149.7	109.1
P	4068971996785824512	17 48 24.41432 -22 31 05.66336	7.1	7952.2	555.8	-5.75	9.663	14.489	0	-22.5	35.0
Ti470529	2047-09-02 00:24:10.36	17 48 21.27183 -22 31 08.50335	17.3	412.1	80.2	359.89	12.197	16.664	15.492	280.6	108.5
Pt	4068971962426142976	17 48 21.27177 -22 31 08.09123	10.8	2891.3	563.4	-5.35	9.673	15.232	0	-22.5	43.4
Ti470530 ^d	2047-09-02 05:50:01.83	17 48 20.21957 -22 31 06.72833	46.7	1105.2	84.8	182.16	10.741	16.900	0	199.0	108.2
P	4068972718287620864	17 48 20.21656 -22 31 07.83279	40.2	7756.9	595.9	-5.13	9.677	15.423	0	-22.5	46.4
Ti470531 ^d	2047-09-02 06:04:40.57	17 48 20.17151 -22 31 07.35050	304.5	457.8	85.1	182.27	10.741	18.033	0	195.3	108.2
Pt	4068972718287620992	17 48 20.17020 -22 31 07.80794	29.0	3213.1	597.7	-5.12	9.677	16.554	0	-22.5	46.5
Ti470532 ^{*d}	2047-09-02 06:17:08.02	17 48 20.13385 -22 31 06.77313	36.0	1013.7	85.3	182.35	10.741	15.642	14.151	192.2	108.2
P	4068972718340411776	17 48 20.13085 -22 31 07.78593	23.3	7114.4	599.2	-5.11	9.677	14.162	0	-22.5	46.6
Ti470533	2047-09-05 12:21:44.59	17 48 13.60020 -22 30 20.21200	16.5	745.7	176.7	131.86	13.287	16.475	15.469	97.8	105.1
Pt	4068972988867072000	17 48 13.64028 -22 30 20.70954	10.0	5264.8	1249.3	2.14	9.735	14.051	0	-22.5	88.1
Ti470534	2047-09-08 04:03:00.81	17 48 24.50595 -22 29 46.12479	27.1	104.1	126.2	358.45	13.030	17.398	16.182	219.9	102.5
Pg	4068973126319949568	17 48 24.50574 -22 29 46.02069	17.3	739.0	895.0	7.51	9.784	16.335	0	-22.5	120.3
Ti470535*	2047-09-08 06:01:42.57	17 48 25.05513 -22 29 45.94048	34.9	88.3	123.0	359.01	12.386	17.051	15.786	190.1	102.4
Pg	4068973126319949696	17 48 25.05502 -22 29 45.85214	20.4	627.1	873.0	7.65	9.786	16.008	0	-22.5	121.3
Ti470536	2047-09-08 16:41:17.14	17 48 28.17619 -22 29 47.38333	30.4	1161.4	106.2	1.88	12.973	17.482	16.219	29.8	102.0
P	4068972409049929984	17 48 28.17894 -22 29 46.22253	18.6	8249.7	753.7	8.34	9.794	16.532	0	-22.5	126.5
Ti470537	2047-09-08 21:19:41.53	17 48 29.61233 -22 29 48.13219	23.4	1051.5	99.1	3.05	12.781	16.939	15.732	320.0	101.8
Pt	4068972404752399488	17 48 29.61637 -22 29 47.08218	12.5	7471.4	703.8	8.60	9.797	16.023	0	-22.5	128.8
Ti470538	2047-09-08 22:01:37.14	17 48 29.84075 -22 29 46.19496	18.1	1056.0	98.1	183.22	11.869	16.595	15.365	309.5	101.8

Table 8 continued on next page

Table 8 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
P	4068972404731237760	17 48 29.83646 -22 29 47.24934	10.5	7504.1	696.5	8.64	9.798	15.684	0	-22.5	129.2
Ti470539	2047-09-09 01:29:55.96	17 48 30.94552 -22 29 47.74308	8.5	486.0	93.1	184.07	12.753	14.971	14.231	257.3	101.7
P	4068972409102678016	17 48 30.94303 -22 29 48.22782	5.1	3454.1	661.7	8.82	9.800	14.082	0	-22.5	130.9
Ti470540 ^d	2047-09-09 22:22:09.87	17 48 37.94170 -22 29 59.68866	35.4	307.9	76.3	8.93	12.208	17.295	15.418	303.4	100.9
Pgt	4068972271610713216	17 48 37.94514 -22 29 59.38445	24.4	2191.9	543.1	9.58	9.815	16.495	0	-22.5	141.1
Ti470541 ^d	2047-09-09 22:26:47.70	17 48 37.96046 -22 30 00.44209	43.8	1011.9	76.3	8.94	12.208	17.372	15.420	302.3	100.9
Pt	4068972271663580032	17 48 37.97181 -22 29 59.44254	25.0	7202.6	543.1	9.58	9.815	16.573	0	-22.5	141.1
Ti470542	2047-09-10 10:28:50.28	17 48 42.15018 -22 30 10.33580	21.9	362.3	81.2	11.65	11.685	16.997	15.281	121.3	100.4
P	4068972202944013824	17 48 42.15546 -22 30 09.98094	13.2	2581.2	578.5	9.75	9.823	16.217	0	-22.5	147.0
Ti470543*	2047-09-10 18:54:08.05	17 48 45.10165 -22 30 17.90595	45.4	1173.7	90.3	193.55	13.297	17.884	16.553	354.6	100.1
P	4068973680412708352	17 48 45.08180 -22 30 19.04691	27.2	8365.8	643.6	9.75	9.828	17.105	0	-22.5	151.2
Ti470544	2047-09-10 21:18:11.48	17 48 45.91403 -22 30 21.67742	23.7	201.9	93.5	194.10	12.924	17.383	16.105	318.5	100.0
Pgt	4068970721101319424	17 48 45.91048 -22 30 21.87325	14.8	1439.5	666.2	9.74	9.830	16.602	0	-22.5	152.4
Ti470545	2047-09-11 03:34:33.72	17 48 48.04178 -22 30 30.42173	11.3	711.5	102.4	15.54	11.489	16.048	14.799	224.2	99.7
Pt	4068970721220782080	17 48 48.05553 -22 30 29.73623	7.1	5074.4	730.4	9.66	9.833	15.257	0	-22.5	155.4
Ti470546	2047-09-11 16:12:33.48	17 48 52.22240 -22 30 48.41116	11.9	971.9	121.6	18.51	11.148	15.989	14.753	34.2	99.2
P	4068970691115311104	17 48 52.24467 -22 30 47.48955	7.5	6936.8	868.0	9.34	9.841	15.163	0	-22.5	161.6
Ti470547	2047-09-11 20:24:33.60	17 48 53.58210 -22 30 54.02433	17.2	141.0	127.9	19.52	12.117	16.517	15.320	331.0	99.1
Pgt	4068970691115280128	17 48 53.58551 -22 30 53.89141	11.0	1006.9	912.5	9.20	9.844	15.673	0	-22.5	163.7
Ti470548	2047-09-12 01:38:38.34	17 48 55.22464 -22 31 01.71983	13.8	479.1	135.2	200.81	12.092	16.421	15.244	252.3	98.9
P	4068970480578770048	17 48 55.21235 -22 31 02.16772	8.8	3421.8	965.5	8.99	9.847	15.552	0	-22.5	166.3
Ti470549	2047-09-12 05:12:24.39	17 48 56.30505 -22 31 07.40178	15.1	609.8	139.9	201.70	11.606	16.645	15.249	198.7	98.7
P	4068970480578749696	17 48 56.28878 -22 31 07.96834	9.5	4355.6	999.3	8.83	9.849	15.757	0	-22.5	168.0
Ti470550	2047-09-12 15:48:14.21	17 48 59.36241 -22 31 24.73958	23.5	1233.3	152.0	204.43	12.852	17.377	16.164	39.3	98.3
P	4068970411859210240	17 48 59.32560 -22 31 25.86251	14.4	8815.3	1086.1	8.28	9.855	16.419	0	-22.5	173.2
Ti470551	2047-09-13 11:41:40.34	17 49 04.27466 -22 32 00.61384	17.0	214.1	164.7	209.85	12.109	16.813	15.619	100.1	97.5
Pgt	4068969763402064128	17 49 04.26697 -22 32 00.79956	11.1	1532.3	1179.1	7.04	9.866	15.679	0	-22.5	175.7
Ti470552	2047-09-13 14:58:35.48	17 49 04.99886 -22 32 06.12588	40.8	520.1	165.4	210.78	12.828	18.167	16.913	50.8	97.4
P	4068969690429025152	17 49 04.97965 -22 32 06.57269	24.2	3722.2	1184.4	6.81	9.868	16.998	0	-22.5	174.2
Ti470553	2047-09-14 13:31:57.75	17 49 09.06981 -22 32 44.83743	46.5	246.2	158.8	37.07	13.383	17.867	16.540	71.5	96.5
Pgt	4068969488524011776	17 49 09.08052 -22 32 44.64098	30.5	1764.5	1138.8	5.25	9.881	16.416	0	-22.6	162.8
Ti470554	2047-09-15 02:40:01.12	17 49 10.88068 -22 33 04.25594	26.3	252.3	146.5	220.16	12.934	17.551	16.340	234.0	96.0
Pg	4068969419804478464	17 49 10.86893 -22 33 04.44879	16.2	1809.8	1051.5	4.38	9.888	15.902	0	-22.6	155.9
Ti470555	2047-09-15 20:05:16.66	17 49 12.69708 -22 33 26.54972	15.7	123.3	123.0	221.90	11.868	16.702	15.478	332.0	95.3
Pgt	4068969415426399232	17 49 12.69114 -22 33 26.64147	9.8	885.0	884.0	3.35	9.899	14.761	0	-22.6	146.4
Ti470556	2047-09-19 05:20:34.65	17 49 20.04419 -22 33 51.63884	23.3	282.0	116.6	168.50	13.209	17.415	16.095	189.8	92.0
Pg	4068922445708613888	17 49 20.04825 -22 33 51.91514	15.0	2035.5	842.8	4.20	9.954	15.721	0	-22.6	99.5
Ti470557	2047-09-19 07:35:05.89	17 49 20.39254 -22 33 51.30699	26.4	368.3	120.1	348.19	13.521	17.616	16.530	156.1	91.9
Pt	4068922449973048960	17 49 20.38710 -22 33 50.94652	16.5	2659.1	868.1	4.38	9.956	15.967	0	-22.6	98.2
Ti470558	2047-09-20 05:24:30.00	17 49 24.46657 -22 33 38.48974	9.3	138.2	150.5	167.88	10.294	15.341	14.075	187.9	91.0
Pg	4068922621823552640	17 49 24.46866 -22 33 38.62490	6.0	999.9	1089.6	6.33	9.973	14.092	0	-22.6	84.9
Ti470559	2047-09-20 23:31:50.66	17 49 29.07905 -22 33 26.05760	17.2	223.8	167.1	349.54	14.755	16.932	15.999	275.3	90.3
Pgt	4068922656183229568	17 49 29.07612 -22 33 25.83755	10.8	1620.8	1211.2	8.14	9.987	15.956	0	-22.6	73.7
Ti470560	2047-09-21 10:14:45.35	17 49 32.35931 -22 33 17.19195	8.7	775.9	172.1	170.85	10.582	15.347	14.130	114.2	89.9
P	4068922686281623168	17 49 32.36822 -22 33 17.95795	5.4	5624.9	1247.9	9.25	9.996	14.510	0	-22.6	67.1
Ti470561	2047-09-21 15:02:11.80	17 49 33.96832 -22 33 13.37842	20.0	1117.7	173.0	171.47	12.852	17.163	16.009	42.1	89.7
P	4068922720541995520	17 49 33.98029 -22 33 14.48377	12.4	8106.3	1255.1	9.75	10.000	16.384	0	-22.6	64.1
Ti470562	2047-09-22 07:37:26.46	17 49 40.23372 -22 33 03.52215	5.5	275.9	170.1	353.70	12.318	14.125	13.487	152.6	89.0
Pgt	4068927844505560704	17 49 40.23153 -22 33 03.24789	3.4	2003.8	1235.1	11.47	10.013	13.521	0	-22.6	53.9
Ti470563	2047-09-22 19:57:02.57	17 49 45.53617 -22 32 56.47699	23.0	215.5	161.9	355.40	12.044	17.083	15.814	327.3	88.6

Table 8 continued on next page

Table 8 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
Pg	4068927810145796864	17 49 45.53492	−22 32 56.26223	14.2	1566.2	1176.9	12.69	10.023	16.589	0	−22.6	46.3
Ti470564***	2047-09-22 21:42:49.66	17 49 46.34307	−22 32 56.38903	121.2	999.6	160.4	355.65	11.963	17.216	15.481	300.7	88.5
P	4068927810145792000	17 49 46.33760	−22 32 55.39230	75.1	7267.6	1165.8	12.86	10.024	16.736	0	−22.6	45.2
Ti470565	2047-09-23 05:33:12.75	17 49 50.03662	−22 32 52.36899	12.4	385.4	152.4	356.73	9.894	15.648	14.221	182.8	88.2
Pt	4068927702704102272	17 49 50.03503	−22 32 51.98423	7.4	2803.7	1108.4	13.59	10.031	15.229	0	−22.6	40.4
Ti470566	2047-09-23 06:16:05.39	17 49 50.37986	−22 32 51.12052	16.4	593.8	151.6	176.83	11.640	16.524	15.241	172.1	88.2
P	4068927707014542336	17 49 50.38223	−22 32 51.71340	9.7	4320.1	1102.5	13.65	10.031	16.109	0	−22.6	40.0
Ti470567	2047-09-23 08:21:04.46	17 49 51.40555	−22 32 51.46691	22.6	503.2	149.1	357.11	12.732	17.247	16.008	140.8	88.1
Pt	4068927707014530816	17 49 51.40372	−22 32 50.96430	14.0	3661.9	1085.0	13.84	10.033	16.848	0	−22.6	38.7
Ti470568	2047-09-23 19:02:46.61	17 49 56.86271	−22 32 49.32451	19.6	1196.3	135.1	358.57	12.353	17.131	15.862	339.9	87.7
P	4068927668377483648	17 49 56.86055	−22 32 48.12856	12.4	8712.3	983.6	14.75	10.041	16.800	0	−22.6	32.3
Ti470569	2047-09-24 05:52:55.35	17 50 02.72171	−22 32 46.39030	11.3	765.5	119.0	180.04	11.768	15.344	14.300	177.0	87.2
P	4068925095780973056	17 50 02.72167	−22 32 47.15578	7.0	5579.3	866.7	15.56	10.049	15.072	0	−22.6	25.7
Ti470570*	2047-09-24 19:10:19.17	17 50 10.29897	−22 32 48.16245	40.4	704.9	98.6	181.81	12.570	17.053	15.759	337.1	86.7
P	4068924958287965568	17 50 10.29736	−22 32 48.86701	24.6	5142.9	719.0	16.39	10.059	16.837	0	−22.6	17.9
Ti470571	2047-09-25 00:22:56.85	17 50 13.36056	−22 32 51.49556	18.2	1030.4	91.3	2.50	11.800	16.752	15.472	258.8	86.5
P	4068924958287931648	17 50 13.36380	−22 32 50.46610	11.8	7520.8	665.7	16.66	10.063	16.554	0	−22.6	14.8
Ti470572	2047-09-25 03:14:13.99	17 50 15.06473	−22 32 51.12113	33.2	450.0	87.6	182.87	12.953	17.630	16.295	215.8	86.4
Pt	4068924923928176640	17 50 15.06310	−22 32 51.57053	21.1	3284.8	638.8	16.80	10.065	17.441	0	−22.6	13.1
Ti470573	2047-09-26 04:07:12.96	17 50 30.26543	−22 33 07.60452	27.5	530.2	75.6	186.08	12.473	17.481	16.219	201.6	85.5
Pt	4068925404914036480	17 50 30.26138	−22 33 08.13175	17.0	3877.3	552.5	17.50	10.083	17.336	0	−22.6	2.6
Ti470574	2047-09-26 13:22:35.42	17 50 35.99181	−22 33 17.22414	18.9	182.5	82.6	187.24	11.743	16.730	15.470	62.4	85.1
Pgt	4068925439324028544	17 50 35.99015	−22 33 17.40519	12.5	1335.5	604.1	17.54	10.089	16.588	0	−22.6	7.1
Ti470575	2047-09-26 18:28:54.00	17 50 39.13343	−22 33 24.02838	14.1	837.1	88.5	7.87	12.452	15.976	15.146	345.6	84.9
Pt	4068913722648997248	17 50 39.14171	−22 33 23.19920	8.6	6127.1	647.3	17.51	10.092	15.832	0	−22.6	9.9
Ti470576	2047-09-26 22:06:33.65	17 50 41.36086	−22 33 28.71594	28.3	1132.1	93.2	8.32	12.339	17.515	16.121	291.1	84.8
P	4068913722648966144	17 50 41.37268	−22 33 27.59578	17.7	8288.1	682.2	17.47	10.094	17.368	0	−22.6	11.9
Ti470577	2047-09-27 00:46:49.42	17 50 42.99981	−22 33 31.82952	43.3	863.6	96.9	8.64	13.425	18.233	16.781	250.9	84.7
P	4068913722648944512	17 50 43.00917	−22 33 30.97571	27.5	6323.8	709.5	17.42	10.096	18.084	0	−22.6	13.4
Ti470578	2047-09-27 11:17:09.09	17 50 49.37632	−22 33 45.29899	28.4	65.8	112.4	189.89	12.742	17.439	16.228	92.9	84.3
Pgt	4068913821404913536	17 50 49.37550	−22 33 45.36377	17.1	481.8	823.1	17.15	10.103	17.273	0	−22.6	19.3
Ti470579	2047-09-28 01:12:36.46	17 50 57.58440	−22 34 05.71648	38.6	1052.9	132.2	191.44	12.807	17.671	16.136	243.5	83.7
P	4068913138533177728	17 50 57.56932	−22 34 06.74842	24.6	7721.0	969.0	16.58	10.111	17.467	0	−22.6	27.0
Ti470580	2047-09-28 07:33:19.81	17 51 01.18787	−22 34 16.87162	15.1	317.8	140.1	192.10	10.762	16.169	14.806	148.1	83.5
Pg	4068913134210448512	17 51 01.18306	−22 34 17.18231	9.1	2331.0	1027.3	16.24	10.115	15.943	0	−22.6	30.5
Ti470581	2047-09-28 08:27:08.20	17 51 01.66903	−22 34 19.82769	39.1	1169.6	141.1	12.19	13.435	17.980	16.684	134.6	83.4
P	4068913069760194048	17 51 01.68687	−22 34 18.68448	23.9	8580.6	1034.9	16.19	10.115	17.750	0	−22.6	31.0
Ti470582	2047-09-28 09:01:01.38	17 51 02.00768	−22 34 19.35006	29.7	290.2	141.7	192.25	13.065	17.643	16.460	126.1	83.4
Pgt	4068913069760185600	17 51 02.00324	−22 34 19.63367	18.9	2129.3	1039.7	16.16	10.116	17.411	0	−22.6	31.3
Ti470583	2047-09-28 21:34:03.27	17 51 08.82817	−22 34 41.93662	24.6	735.5	153.6	13.41	10.352	16.547	14.830	297.4	82.9
Pt	4068912893656419200	17 51 08.84049	−22 34 41.22121	15.7	5399.7	1127.7	15.37	10.123	16.261	0	−22.6	38.1
Ti470584	2047-09-29 04:42:21.13	17 51 12.56886	−22 34 52.87682	22.5	901.6	158.1	193.97	12.430	17.038	15.816	190.0	82.7
P	4070414040665071232	17 51 12.55315	−22 34 53.75176	14.3	6622.2	1161.0	14.87	10.127	16.716	0	−22.6	42.0
Ti470585	2047-09-29 21:48:01.86	17 51 20.90866	−22 35 22.55879	15.3	1044.4	161.2	194.89	9.770	15.762	14.284	292.9	82.0
P	4070411051367725696	17 51 20.88927	−22 35 23.56809	9.6	7678.1	1185.2	13.59	10.137	15.343	0	−22.6	51.1
Ti470586	2047-09-30 08:05:17.85	17 51 25.54476	−22 35 39.82485	13.8	997.2	157.7	195.07	9.426	15.445	13.945	138.2	81.6
P	4070410948288450048	17 51 25.52604	−22 35 40.78777	8.2	7335.7	1160.7	12.81	10.142	14.962	0	−22.6	56.6
Ti470587	2047-09-30 10:45:33.73	17 51 26.68326	−22 35 45.18016	39.8	74.2	156.2	15.07	13.215	18.034	16.744	98.0	81.5
Pgt	4070410875188237952	17 51 26.68465	−22 35 45.10853	24.9	545.8	1149.7	12.61	10.144	17.534	0	−22.6	58.0
Ti470588	2047-10-01 11:30:52.95	17 51 36.61558	−22 36 21.69695	28.4	838.0	131.4	13.58	12.771	17.293	16.109	85.7	80.5

Table 8 continued on next page

Table 8 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch		$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (′′)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position		$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4070410089294821248	17 51 36.62978	-22 36 20.88234	16.7	6174.1	968.6	10.98	10.158	16.641	0	-22.6	71.0
Ti470589	2047-10-02 01:48:35.66	17 51 41.84826	-22 36 37.26433	27.8	220.4	110.9	11.44	12.273	17.153	15.884	230.7	79.9
Pgt	4070410261093436928	17 51 41.85142	-22 36 37.04833	16.5	1625.0	818.6	10.430	10.167	16.433	0	-22.6	78.4
Ti470590	2047-10-02 11:53:58.31	17 51 45.40075	-22 36 45.47463	7.5	643.9	96.1	189.42	9.914	14.604	13.403	79.0	79.5
P	4070410226733645312	17 51 45.39314	-22 36 46.10988	4.1	4751.0	709.6	9.99	10.173	13.851	0	-22.6	83.6
Ti470591	2047-10-02 19:52:38.79	17 51 48.14767	-22 36 51.86317	16.2	41.6	85.6	7.58	11.407	16.476	15.137	319.0	79.2
Pgt	407041022353623296	17 51 48.14806	-22 36 51.82196	9.4	306.9	632.5	9.86	10.178	15.708	0	-22.6	87.6
Ti470592	2047-10-04 13:56:07.08	17 52 03.11781	-22 37 02.10020	18.8	1165.8	92.1	358.15	12.650	16.769	15.588	46.5	77.6
P	4070223893808308864	17 52 03.11509	-22 37 00.93497	11.2	8630.0	682.3	10.91	10.206	16.111	0	-22.6	108.9
Ti470593	2047-10-04 23:30:33.41	17 52 06.87547	-22 36 58.73529	17.8	158.7	105.9	356.74	11.408	16.554	15.236	262.5	77.2
Pgt	4070223825131978624	17 52 06.87482	-22 36 58.57682	11.3	1175.7	785.2	11.51	10.213	15.954	0	-22.6	113.7
Ti470594	2047-10-05 09:34:02.86	17 52 11.06249	-22 36 55.67039	7.2	982.3	121.0	355.66	10.554	14.376	13.321	111.2	76.8
P	4070223103577430400	17 52 11.05712	-22 36 54.69087	4.6	7281.9	897.8	12.27	10.221	13.845	0	-22.6	118.7
Ti470595*	2047-10-05 13:36:48.86	17 52 12.81435	-22 36 52.63688	51.9	137.1	126.9	175.35	12.883	17.742	16.526	50.4	76.6
Pg	4070223206656628352	17 52 12.81515	-22 36 52.77353	33.4	1016.6	941.7	12.60	10.224	17.240	0	-22.6	120.7
Ti470596	2047-10-05 17:05:39.76	17 52 14.35892	-22 36 50.01722	35.3	967.1	131.8	175.12	12.975	17.642	16.366	358.0	76.5
P	4070223206655699328	17 52 14.36487	-22 36 50.98085	24.3	7173.2	978.3	12.90	10.226	17.166	0	-22.6	122.4
Ti470597	2047-10-05 20:07:14.41	17 52 15.73586	-22 36 48.46568	20.8	861.4	135.9	174.95	12.425	16.838	15.621	312.5	76.4
P	4070223133560094336	17 52 15.74133	-22 36 49.32372	13.6	6390.3	1009.0	13.16	10.229	16.384	0	-22.6	123.9
Ti470598	2047-10-06 03:05:28.29	17 52 19.01663	-22 36 44.82888	31.1	373.3	144.7	174.69	13.166	17.473	16.297	207.7	76.1
Pt	4070223167919834240	17 52 19.01912	-22 36 45.20056	20.5	2770.7	1074.5	13.80	10.234	17.071	0	-22.6	127.3
Ti470599	2047-10-06 10:09:44.38	17 52 22.50650	-22 36 40.99679	27.4	338.2	152.4	354.58	13.206	17.439	16.314	101.3	75.8
Pgt	4070223344094601984	17 52 22.50420	-22 36 40.66011	18.2	2511.5	1132.4	14.48	10.239	17.089	0	-22.6	130.8
Ti470600	2047-10-06 19:26:42.78	17 52 27.33456	-22 36 34.10194	27.1	220.0	160.5	174.63	10.495	16.336	14.884	321.7	75.5
Pgt	4070223309690662784	17 52 27.33604	-22 36 34.32095	17.6	1634.8	1193.0	15.41	10.247	16.053	0	-22.6	135.4
Ti470601	2047-10-06 22:00:39.98	17 52 28.73253	-22 36 33.70178	23.1	1186.1	162.2	354.68	12.113	18.587	0	283.2	75.4
P	4070223309734822912	17 52 28.72458	-22 36 32.52077	20.7	8816.6	1206.4	15.67	10.249	18.322	0	-22.6	136.6
Ti470602	2047-10-06 22:39:54.21	17 52 29.07625	-22 36 31.17462	15.8	889.1	162.7	174.69	11.637	16.050	14.878	273.3	75.3
P	4070223309734820352	17 52 29.08220	-22 36 32.05993	9.5	6609.2	1209.6	15.74	10.249	15.790	0	-22.6	136.9
Ti470603*	2047-10-07 04:47:25.22	17 52 32.50057	-22 36 26.89977	69.3	825.7	165.9	174.87	13.288	18.263	16.704	181.2	75.1
P	4070220457876514176	17 52 32.50591	-22 36 27.72220	46.3	6140.9	1234.4	16.37	10.254	18.045	0	-22.6	139.9
Ti470604	2047-10-07 13:35:28.75	17 52 37.66314	-22 36 21.71507	38.0	193.6	168.5	355.23	13.270	17.513	16.190	48.8	74.7
Pgt	4070220487860253312	17 52 37.66198	-22 36 21.52214	24.8	1440.7	1254.1	17.29	10.261	17.355	0	-22.6	144.3
Ti470605	2047-10-07 14:59:58.20	17 52 38.51586	-22 36 21.02230	36.6	478.9	168.7	355.30	13.159	17.836	16.563	27.7	74.7
Pt	4070220423472522496	17 52 38.51303	-22 36 20.54506	23.5	3564.0	1255.5	17.43	10.262	17.687	0	-22.6	144.9
Ti470606	2047-10-08 02:52:25.84	17 52 45.97270	-22 36 12.18771	30.0	449.3	167.4	175.97	11.921	16.823	15.388	209.1	74.2
Pt	4070226092833859072	17 52 45.97498	-22 36 12.63593	19.8	3347.3	1247.1	18.66	10.271	16.748	0	-22.6	150.8
Ti470607	2047-10-08 08:05:20.70	17 52 49.41026	-22 36 09.01453	42.4	411.7	165.4	176.31	13.008	17.853	16.581	130.7	74.0
P	4070226054141937536	17 52 49.41218	-22 36 09.42541	25.3	3068.4	1232.4	19.20	10.275	17.808	0	-22.6	153.3
Ti470608	2047-10-08 10:26:39.14	17 52 50.99538	-22 36 07.94237	15.6	101.8	164.2	176.47	10.117	15.938	14.465	95.3	73.9
Pgt	4070226058473998848	17 52 50.99584	-22 36 08.04396	10.0	758.7	1223.5	19.43	10.277	15.907	0	-22.6	154.5
Ti470609	2047-10-08 14:20:41.24	17 52 53.66464	-22 36 06.70200	55.6	841.5	161.8	356.76	13.573	18.320	17.013	36.6	73.8
P	4070226161595505536	17 52 53.66120	-22 36 05.86184	38.1	6274.2	1206.0	19.82	10.280	18.310	0	-22.6	156.4
Ti470610	2047-10-08 17:54:28.39	17 52 56.14156	-22 36 03.98273	46.4	12.3	159.2	177.01	13.022	17.934	16.534	343.0	73.7
Pgt	4070225439998574720	17 52 56.14160	-22 36 03.99503	30.6	91.9	1187.0	20.17	10.283	17.943	0	-22.6	158.1

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

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

Table 9. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 9 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _p (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _p (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Ti470611	2047-10-08 19:24:17.43	17 52 57.19353 -22 36 02.42779	56.9	822.8	158.0	177.14	13.316	18.328	16.954	320.5	73.6
P	4070225435697215488	17 52 57.19650 -22 36 03.24959	37.8	6137.2	1178.1	20.31	10.284	18.345	0	-22.6	158.8
Ti470612	2047-10-09 08:41:40.81	17 53 06.88206 -22 35 57.88811	53.4	105.3	144.6	358.21	12.556	18.076	16.773	120.7	73.1
Pgt	4070225573106418432	17 53 06.88182 -22 35 57.78282	32.8	786.5	1079.0	21.54	10.294	18.157	0	-22.6	165.3
Ti470613	2047-10-09 09:09:02.31	17 53 07.22245 -22 35 56.95685	26.9	679.0	144.0	178.24	12.535	17.211	16.000	113.8	73.1
P	4070225577479786880	17 53 07.22396 -22 35 57.63557	17.9	5070.0	1075.0	21.58	10.295	17.293	0	-22.6	165.5
Ti470614	2047-10-09 13:16:17.42	17 53 10.34498 -22 35 56.89888	15.4	461.0	138.9	358.59	12.693	16.370	15.290	51.8	72.9
Pt	4070225573125206784	17 53 10.34416 -22 35 56.43807	10.9	3442.7	1037.3	21.93	10.298	16.470	0	-22.6	167.6
Ti470615	2047-10-10 10:59:36.68	17 53 27.54878 -22 35 55.65037	34.0	1110.3	107.7	0.50	12.445	17.793	16.390	85.2	72.1
P	4070215132115853184	17 53 27.54947 -22 35 54.54007	23.4	8305.5	805.4	23.54	10.314	17.970	0	-22.6	177.6
Ti470616	2047-10-10 23:45:10.05	17 53 38.14213 -22 35 58.38461	17.0	1085.8	89.3	1.65	13.585	16.157	15.326	253.3	71.6
P	4070214440543218816	17 53 38.14439 -22 35 57.29929	10.8	8128.8	668.3	24.24	10.323	16.366	0	-22.6	174.8
Ti470617	2047-10-11 02:51:07.00	17 53 40.76068 -22 35 57.92348	67.0	511.2	85.4	181.94	12.788	18.437	17.073	206.7	71.5
Pt	4070214440551235200	17 53 40.75943 -22 35 58.43439	43.5	3828.0	639.0	24.38	10.325	18.652	0	-22.6	173.4
Ti470618	2047-10-11 04:09:31.08	17 53 41.86703 -22 35 58.61680	31.2	351.9	83.8	182.05	12.396	17.346	16.068	187.1	71.4
P	4070214440543214592	17 53 41.86612 -22 35 58.96844	20.1	2635.1	627.5	24.43	10.326	17.563	0	-22.6	172.7
Ti470619	2047-10-11 09:29:19.90	17 53 46.40533 -22 36 00.75859	49.6	731.9	78.3	182.54	10.501	17.545	15.808	106.9	71.2
P	4070214749801911296	17 53 46.40299 -22 36 01.48978	33.6	5483.1	586.3	24.64	10.329	17.772	0	-22.6	170.1
Ti470620	2047-10-11 14:07:28.10	17 53 50.37037 -22 36 05.03293	59.6	902.5	74.8	2.96	12.860	18.369	17.072	37.2	71.1
P	4070214577989445760	17 53 50.37374 -22 36 04.13167	38.3	6762.8	560.3	24.78	10.332	18.602	0	-22.6	167.8
Ti470621	2047-10-11 17:32:54.26	17 53 53.31364 -22 36 07.53099	36.4	1181.8	73.2	3.27	13.322	17.751	16.519	345.7	70.9
P	4070214513640342400	17 53 53.31851 -22 36 06.35116	24.6	8857.8	548.2	24.87	10.335	17.988	0	-22.6	166.0
Ti470622*	2047-10-11 21:12:54.44	17 53 56.48406 -22 36 08.24185	106.5	739.1	72.4	183.60	12.933	18.237	16.717	290.6	70.8
P	4070214616719535360	17 53 56.48071 -22 36 08.97945	69.5	5540.8	542.5	24.94	10.337	18.476	0	-22.6	164.2
Ti470623	2047-10-12 04:59:28.62	17 54 03.20598 -22 36 15.23659	45.4	166.6	74.2	184.30	12.907	18.188	16.814	173.6	70.5
Pg	4070211627375675520	17 54 03.20508 -22 36 15.40278	30.2	1250.0	556.1	25.04	10.342	18.432	0	-22.6	160.2
Ti470624	2047-10-12 13:48:32.79	17 54 10.83011 -22 36 24.70512	30.1	664.8	81.2	5.06	11.507	17.485	16.209	41.0	70.2
Pt	4070234884594864512	17 54 10.83434 -22 36 24.04288	19.0	4989.3	609.4	25.04	10.348	17.729	0	-22.6	155.6
Ti470625	2047-10-12 14:46:57.24	17 54 11.66826 -22 36 26.18288	76.7	1105.3	82.3	5.14	13.135	18.727	0	26.4	70.1
P	4070234923290183296	17 54 11.67541 -22 36 25.08199	47.5	8295.8	617.2	25.03	10.348	18.971	0	-22.6	155.1
Ti470626	2047-10-12 23:54:44.34	17 54 19.52944 -22 36 36.63610	7.6	1031.7	93.7	5.90	13.018	18.692	16.730	249.1	69.8
P	4070234201735303680	17 54 19.53710 -22 36 35.60992	5.8	7746.9	703.3	24.90	10.354	18.930	0	-22.6	150.4
Ti470627	2047-10-13 06:16:33.18	17 54 24.97644 -22 36 43.57081	42.2	166.0	102.7	186.41	11.335	17.948	16.386	153.4	69.5
Pg	4070234163040389888	17 54 24.97510 -22 36 43.73573	25.2	1246.7	771.3	24.74	10.357	18.179	0	-22.6	147.0
Ti470628	2047-10-13 06:31:33.14	17 54 25.18016 -22 36 45.00756	51.4	946.2	103.1	6.43	11.682	18.138	16.673	149.7	69.5
P	4070234167375305088	17 54 25.18782 -22 36 44.06728	34.8	7108.2	774.0	24.73	10.358	18.369	0	-22.6	146.9
Ti470629	2047-10-13 12:09:40.24	17 54 29.96649 -22 36 51.19884	59.5	578.5	111.3	186.86	12.931	18.527	17.134	64.9	69.3
Pt	4070234334839097472	17 54 29.96149 -22 36 51.77319	39.9	4347.0	835.8	24.54	10.361	18.749	0	-22.6	143.8
Ti470630	2047-10-14 00:45:57.28	17 54 40.46980 -22 37 09.36570	28.2	1079.6	128.7	187.75	11.754	17.290	15.908	235.4	68.8
P	4070187369439270400	17 54 40.45929 -22 37 10.43543	18.8	8118.1	967.4	23.97	10.368	17.487	0	-22.6	137.0
Ti470631	2047-10-14 05:16:04.50	17 54 44.14611 -22 37 16.57986	36.2	925.8	134.3	188.04	12.669	17.950	16.627	167.7	68.7
P	4070187399429023360	17 54 44.13676 -22 37 17.49659	24.9	6963.3	1009.6	23.72	10.370	18.135	0	-22.6	134.6
Ti470632	2047-10-14 13:02:06.59	17 54 50.36714 -22 37 31.09489	46.3	1060.3	142.7	8.48	12.048	18.303	16.769	50.9	68.4
P	4070187163280748288	17 54 50.37843 -22 37 30.04623	32.2	7977.7	1073.7	23.25	10.375	18.467	0	-22.6	130.3
Ti470633	2047-10-14 15:32:38.44	17 54 52.36793 -22 37 33.88703	22.2	294.4	145.1	188.61	13.924	17.170	16.158	13.1	68.3
Pg	4070187158910832384	17 54 52.36474 -22 37 34.17810	14.8	2215.3	1091.8	23.08	10.376	17.326	0	-22.6	128.9
Ti470634	2047-10-14 18:00:30.28	17 54 54.29585 -22 37 38.73226	53.2	472.6	147.3	8.73	12.546	18.491	17.124	336.1	68.2

Table 9 continued on next page

Table 9 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
Pt	4070188636387142656	17 54 54.30103 -22 37 38.26509	35.5	3557.2	1108.1	22.92	10.377	18.639	0	-22.6	127.5
Ti470635*	2047-10-14 21:54:51.49	17 54 57.32816 -22 37 45.74237	11.0	966.7	150.3	8.90	11.380	14.608	13.653	277.3	68.0
P	4070187884835195392	17 54 57.33896 -22 37 44.78726	8.0	7277.4	1131.1	22.64	10.379	14.743	0	-22.6	125.3
Ti470636	2047-10-15 02:09:27.17	17 55 00.59914 -22 37 51.56079	12.7	356.7	153.0	189.06	13.421	16.107	15.264	213.5	67.9
Pt	4070187850475430528	17 55 00.59509 -22 37 51.91302	8.3	2685.6	1151.8	22.34	10.381	16.227	0	-22.6	122.9
Ti470637*	2047-10-15 05:28:52.11	17 55 03.10651 -22 37 58.02879	57.6	529.1	154.7	9.17	13.323	18.368	17.032	163.6	67.7
Pt	4070187846105570688	17 55 03.11260 -22 37 57.50641	40.4	3984.7	1164.8	22.09	10.383	18.476	0	-22.6	121.0
Ti470638	2047-10-15 17:00:53.23	17 55 11.60547 -22 38 17.95700	55.0	1171.2	157.5	9.40	13.491	18.579	17.249	350.1	67.3
P	4070187678676636288	17 55 11.61929 -22 38 16.80151	40.3	8825.0	1186.7	21.20	10.389	18.642	0	-22.6	114.4
Ti470639	2047-10-15 19:28:39.37	17 55 13.39342 -22 38 20.33198	35.8	533.3	157.5	189.42	12.930	17.867	16.621	313.1	67.2
Pt	4070184753729088000	17 55 13.38712 -22 38 20.85808	23.8	4018.7	1186.7	21.01	10.390	17.921	0	-22.6	113.0
Ti470640	2047-10-15 19:58:14.91	17 55 13.73621 -22 38 22.11839	71.5	452.3	157.4	9.42	13.076	18.851	17.433	305.7	67.2
Pt	4070184753736765056	17 55 13.74155 -22 38 21.67217	48.6	3408.7	1186.4	20.97	10.391	18.903	0	-22.6	112.7
Ti470641	2047-10-16 02:37:28.06	17 55 18.43180 -22 38 32.49817	63.8	54.5	158.1	9.39	13.076	18.882	17.526	205.6	66.9
Pgt	4070184685017301376	17 55 18.43244 -22 38 32.44438	42.2	411.0	1176.8	20.46	10.394	18.907	0	-22.6	108.8
Ti470642	2047-10-16 12:57:30.85	17 55 25.49075 -22 38 48.19372	43.8	262.6	150.9	189.17	12.152	18.115	0	50.2	66.5
Pgt	4070184891191960832	17 55 25.48772 -22 38 48.45298	30.6	1980.7	1138.3	19.67	10.399	18.097	0	-22.7	102.7
Ti470643	2047-10-16 14:30:32.69	17 55 26.52458 -22 38 50.62406	21.9	138.3	149.8	189.12	13.627	16.958	16.008	26.9	66.5
Pg	4070184822448532864	17 55 26.52300 -22 38 50.76062	13.9	1043.2	1130.2	19.56	10.400	16.934	0	-22.7	101.8
Ti470644	2047-10-17 05:23:56.52	17 55 36.18462 -22 39 11.03796	79.9	312.8	135.5	188.29	12.774	18.840	17.349	163.0	65.9
Pg	4070184100901795968	17 55 36.18137 -22 39 11.34749	54.6	2361.2	1023.7	18.56	10.408	18.759	0	-22.7	92.8
Ti470645	2047-10-17 06:49:19.82	17 55 37.08056 -22 39 13.06017	23.7	88.3	133.9	188.19	8.953	16.014	14.438	141.6	65.8
Pg	4070184105263622784	17 55 37.07965 -22 39 13.14756	15.8	666.5	1011.1	18.47	10.409	15.928	0	-22.7	92.0
Ti470646	2047-10-17 15:08:07.96	17 55 42.25494 -22 39 22.69945	66.0	304.3	123.2	187.46	12.321	18.614	0	16.5	65.5
Pg	4070183933464889728	17 55 42.25208 -22 39 23.00115	44.9	2297.9	931.1	18.02	10.413	18.500	0	-22.7	86.9
Ti470647	2047-10-17 20:50:32.36	17 55 45.73653 -22 39 29.11767	22.0	46.6	115.2	6.86	12.936	17.117	16.110	290.7	65.3
Pg	4070189735888343552	17 55 45.73693 -22 39 29.07139	15.1	352.1	871.2	17.75	10.416	16.988	0	-22.7	83.4
Ti470648	2047-10-18 13:30:20.38	17 55 55.69368 -22 39 42.79986	61.6	483.7	91.4	184.82	11.449	18.607	16.934	40.1	64.6
P	4070178053587903872	17 55 55.69075 -22 39 43.28181	44.1	3657.2	691.9	17.23	10.426	18.445	0	-22.7	73.0
Ti470649	2047-10-18 20:37:37.34	17 55 59.88247 -22 39 48.05013	71.0	370.1	82.6	3.84	12.123	18.791	17.253	293.0	64.4
Pt	4070177847429487104	17 55 59.88426 -22 39 47.68085	51.0	2799.7	625.0	17.14	10.430	18.623	0	-22.7	68.6
Ti470650	2047-10-19 12:00:08.54	17 56 08.93128 -22 39 52.92945	31.1	768.6	71.9	181.67	14.484	17.604	16.491	61.8	63.8
P	4070178191016238336	17 56 08.92967 -22 39 53.69777	23.0	5819.5	544.9	17.21	10.439	17.441	0	-22.7	58.9
Ti470651	2047-10-19 18:45:36.16	17 56 12.93852 -22 39 55.45221	23.6	588.4	72.5	0.75	13.379	17.063	15.934	320.2	63.5
Pt	4070177469461732096	17 56 12.93907 -22 39 54.86388	16.8	4456.4	549.4	17.37	10.443	16.910	0	-22.7	54.6
Ti470652	2047-10-20 18:00:33.87	17 56 27.15378 -22 39 53.22842	76.3	708.4	95.6	358.07	11.894	18.776	17.271	330.5	62.6
Pt	4070177263314044544	17 56 27.15205 -22 39 52.52047	53.9	5372.8	725.6	18.41	10.458	18.686	0	-22.7	40.0
Ti470653	2047-10-20 23:21:53.78	17 56 30.55923 -22 39 50.69213	18.1	35.6	103.3	177.58	11.015	16.679	15.300	250.0	62.4
Pgt	4070175790206633472	17 56 30.55934 -22 39 50.72773	12.1	270.3	784.4	18.75	10.462	16.609	0	-22.7	36.6
Ti470654	2047-10-21 04:15:27.06	17 56 33.73145 -22 39 49.88888	21.5	1155.7	110.5	357.21	13.281	17.069	15.980	176.4	62.2
P	4070175824567275008	17 56 33.72739 -22 39 48.73450	14.2	8772.0	839.3	19.09	10.465	17.019	0	-22.7	33.6
Ti470655	2047-10-21 07:04:45.28	17 56 35.57736 -22 39 46.65884	54.5	783.5	114.6	177.02	14.307	18.585	17.329	134.0	62.1
P	4070175824567273088	17 56 35.58031 -22 39 47.44123	37.7	5947.4	870.8	19.30	10.467	18.546	0	-22.7	31.8
Ti470656	2047-10-21 21:17:22.20	17 56 45.22992 -22 39 39.92637	16.9	383.9	134.3	356.29	13.074	16.638	15.527	280.3	61.5
Pt	4070175687128307200	17 56 45.22813 -22 39 39.54323	11.7	2917.3	1020.9	20.46	10.477	16.663	0	-22.7	23.0
Ti470657	2047-10-22 02:24:04.04	17 56 48.84106 -22 39 36.72645	27.2	497.8	140.5	356.13	12.874	17.412	16.198	203.4	61.3
Pt	4070175991992995072	17 56 48.83864 -22 39 36.22983	19.3	3783.4	1068.7	20.92	10.480	17.461	0	-22.7	19.8
Ti470658	2047-10-22 13:04:19.65	17 56 56.63787 -22 39 29.14072	26.6	409.0	151.6	355.96	12.746	17.507	16.409	43.0	60.9
Pt	4070175270438493952	17 56 56.63579 -22 39 28.73275	18.8	3111.0	1153.5	21.93	10.488	17.606	0	-22.7	13.4
Ti470659	2047-10-22 15:05:10.53	17 56 58.14844 -22 39 27.25237	14.0	1.7	153.3	355.66	13.353	16.238	15.384	12.7	60.8

Table 9 continued on next page

Table 9 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4070175377890645248	17 56 58.14843 -22 39 27.25071	9.8	12.6	1167.0	22.12	10.489	16.348	0	-22.7	12.1
Ti470660	2047-10-22 19:18:55.56	17 57 01.36393 -22 39 23.26684	76.8	825.8	156.6	175.95	11.168	18.900		309.1	60.7
P	4070175304798234368	17 57 01.36814 -22 39 24.09056	61.5	6283.9	1192.4	22.54	10.492	19.030	0	-22.7	9.6
Ti470661	2047-10-23 04:46:03.72	17 57 08.78664 -22 39 17.87978	23.0	994.7	162.1	356.04	12.725	17.193	16.007	166.9	60.3
P	4070268973777400576	17 57 08.78168 -22 39 16.88741	15.8	7574.5	1234.3	23.49	10.499	17.368	0	-22.7	4.1
Ti470662	2047-10-23 05:56:04.90	17 57 09.71446 -22 39 15.26163	31.5	733.5	162.5	176.07	12.663	17.782	16.714	149.4	60.3
P	4070268973777399936	17 57 09.71810 -22 39 15.99340	21.3	5585.7	1238.0	23.61	10.500	17.963	0	-22.7	3.5
Ti470663	2047-10-23 08:27:43.98	17 57 11.75937 -22 39 13.46235	89.0	598.4	163.4	176.12	11.071	18.872	16.856	111.4	60.2
P	4070268905019431552	17 57 11.76229 -22 39 14.05940	57.1	4557.9	1244.9	23.87	10.502	19.064	0	-22.7	2.3
Ti470664*	2047-10-24 10:45:54.82	17 57 34.33710 -22 38 54.17075	46.5	1006.7	160.2	177.07	12.692	17.345	15.932	75.8	59.2
P	4069518518399548032	17 57 34.34082 -22 38 55.17610	30.9	7680.9	1222.4	26.53	10.520	17.652	0	-22.7	13.9
Ti470665	2047-10-24 18:09:38.23	17 57 41.11058 -22 38 51.07522	49.1	394.7	155.4	357.45	14.648	18.459	17.228	324.6	58.9
Pt	4069517865571377024	17 57 41.10931 -22 38 50.68093	34.8	3012.9	1185.8	27.24	10.525	18.795	0	-22.6	18.1
Ti470666	2047-10-25 09:13:36.18	17 57 55.43242 -22 38 44.22154	16.9	906.3	140.7	358.31	10.719	16.254	14.916	98.1	58.3
P	4069519068155369472	17 57 55.43049 -22 38 43.31565	12.0	6925.2	1074.8	28.60	10.536	16.642	0	-22.6	26.5
Ti470667	2047-10-25 18:22:14.56	17 58 04.44359 -22 38 40.15165	10.4	121.6	129.2	178.90	11.994	15.356	14.288	320.6	58.0
Pgt	4069516254969498112	17 58 04.44376 -22 38 40.27326	7.2	930.0	987.4	29.34	10.542	15.773	0	-22.6	31.6
Ti470668	2047-10-26 11:54:37.47	17 58 22.31422 -22 38 37.95672	53.3	97.0	104.0	180.08	10.514	17.784	16.234	56.8	57.3
Pgt	4069515666548307456	17 58 22.31422 -22 38 38.05373	34.2	742.6	795.3	30.54	10.554	18.244	0	-22.6	41.2
Ti470669	2047-10-26 16:13:00.26	17 58 26.80051 -22 38 39.38441	87.0	1078.5	97.7	0.38	13.313	18.759	16.933	352.1	57.1
P	4069515636480333312	17 58 26.80103 -22 38 38.30590	59.9	8257.4	747.4	30.79	10.556	19.227	0	-22.6	43.5
Ti470670	2047-10-27 00:17:52.66	17 58 35.30667 -22 38 39.23922	4.4	441.8	86.6	180.95	7.524	10.573	9.673	230.6	56.8
Pt	4069521335896974336	17 58 35.30618 -22 38 39.68042	2.9	3383.9	662.7	31.18	10.561	11.055	0	-22.6	47.8
Ti470671	2047-10-28 01:04:07.50	17 59 01.83289 -22 38 52.61409	61.4	1165.5	70.9	2.70	11.216	18.243	16.701	218.1	55.9
P	4069509825392974080	17 59 01.83687 -22 38 51.44988	40.2	8939.9	543.1	31.84	10.576	18.748	0	-22.6	60.9
Ti470672	2047-10-28 01:58:25.65	17 59 02.81177 -22 38 52.44492	13.9	349.7	71.1	2.77	13.741	16.023	15.221	204.5	55.9
Pt	4069509069471501952	17 59 02.81299 -22 38 52.09559	9.1	2682.8	544.9	31.85	10.576	16.529	0	-22.6	61.4
Ti470673	2047-10-28 12:08:55.69	17 59 13.78849 -22 38 59.77568	34.8	588.6	77.5	183.46	12.224	17.313	16.034	51.5	55.5
Pt	4069510306422078976	17 59 13.78593 -22 39 00.36322	23.7	4517.5	594.7	31.85	10.582	17.818	0	-22.6	66.6
Ti470674	2047-10-28 20:35:22.27	17 59 22.86347 -22 39 08.06755	49.1	501.8	87.0	184.01	8.452	17.169	15.493	284.6	55.2
Pt	4069507321422726784	17 59 22.86094 -22 39 08.56810	34.7	3852.7	667.7	31.73	10.586	17.670	0	-22.7	71.0
Ti470675	2047-10-29 00:11:13.17	17 59 26.70834 -22 39 13.29826	80.6	887.8	91.7	4.24	10.393	18.594	16.964	230.5	55.0
P	4069507420211398400	17 59 26.71308 -22 39 12.41286	61.9	6818.0	704.1	31.65	10.588	19.093	0	-22.7	72.8
Ti470676	2047-10-29 10:25:45.24	17 59 37.60984 -22 39 23.38599	55.6	1016.8	106.1	184.85	13.155	18.445	17.347	76.5	54.7
P	4069507493235605888	17 59 37.60364 -22 39 24.39913	37.9	7812.0	815.0	31.32	10.593	18.932	0	-22.7	78.0
Ti470677	2047-10-30 03:30:45.22	17 59 55.41569 -22 39 46.21636	25.3	1042.4	129.1	185.72	13.411	17.247	16.136	179.6	54.0
P	4069506634242099328	17 59 55.40819 -22 39 47.25356	16.5	8014.9	992.2	30.48	10.602	17.705	0	-22.7	86.7
Ti470678	2047-10-30 14:34:04.30	18 00 06.61954 -22 40 02.54823	57.9	855.1	140.9	186.15	13.727	18.565	17.487	13.4	53.6
P	4069483059157082624	18 00 06.61292 -22 40 03.39842	39.6	6578.0	1084.0	29.76	10.607	18.996	0	-22.7	92.2
Ti470679	2047-10-30 22:47:56.55	18 00 14.76187 -22 40 16.06071	20.6	256.7	147.5	6.39	11.887	16.839	15.765	249.6	53.3
Pg	4069482956072424832	18 00 14.76394 -22 40 15.80560	13.3	1975.5	1135.1	29.16	10.610	17.249	0	-22.7	96.3
Ti470680*	2047-10-31 04:15:03.45	18 00 20.06247 -22 40 24.53859	128.5	441.2	150.7	6.50	12.535	15.672	14.541	167.6	53.1
Pt	4069482926026756608	18 00 20.06609 -22 40 24.10026	85.7	3395.7	1159.8	28.75	10.613	16.066	0	-22.7	99.1
Ti470681	2047-10-31 06:55:06.10	18 00 22.62597 -22 40 28.79560	62.1	639.6	151.9	6.54	13.739	18.375	17.307	127.5	53.0
P	4069482543755559680	18 00 22.63124 -22 40 28.16014	42.5	4923.7	1169.1	28.54	10.614	18.761	0	-22.7	100.4
Ti470682	2047-10-31 17:12:57.40	18 00 32.35497 -22 40 43.32200	65.1	379.7	154.1	186.61	12.419	18.183	16.966	332.7	52.6
P	4069482303237385856	18 00 32.35181 -22 40 43.69920	47.1	2924.2	1186.8	27.71	10.618	18.537	0	-22.7	105.5
Ti470683	2047-11-01 04:32:41.22	18 00 42.70743 -22 41 00.53154	34.2	330.5	152.1	6.49	13.795	17.519	16.476	162.3	52.2
Pgt	4069479417019356416	18 00 42.71013 -22 41 00.20318	21.7	2546.1	1172.4	26.80	10.623	17.837	0	-22.7	111.1
Ti470684	2047-11-01 11:14:09.07	18 00 48.65808 -22 41 10.52296	17.6	1060.6	148.9	6.32	11.592	15.751	14.614	61.7	51.9

Table 9 continued on next page

Table 9 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
P	4069480623924261504	18 00 48.66652 -22 41 09.46882	11.6	8173.5	1147.5	26.28	10.626	16.048	0	-22.7	114.4
Ti470685	2047-11-01 21:30:54.44	18 00 57.60190 -22 41 22.06792	30.0	685.6	141.0	185.91	13.054	17.130	16.026	267.1	51.5
P	4069480585250452352	18 00 57.59680 -22 41 22.74991	18.3	5286.1	1087.5	25.52	10.630	17.395	0	-22.7	119.5
Ti470686	2047-11-02 11:01:31.95	18 01 08.96309 -22 41 39.08852	91.2	1089.6	126.2	5.10	13.896	18.926	17.749	63.9	51.0
P	4069479691902985472	18 01 08.97009 -22 41 38.00321	59.9	8405.4	973.8	24.66	10.636	19.154	0	-22.7	126.1
Ti470687*	2047-11-02 13:07:11.85	18 01 10.69401 -22 41 41.18325	59.9	1076.8	123.5	4.95	13.430	17.989	16.768	32.5	50.9
P	4069480069853467136	18 01 10.70073 -22 41 40.11044	41.8	8307.4	953.3	24.55	10.637	18.212	0	-22.7	127.1
Ti470688	2047-11-03 23:28:07.82	18 01 38.27526 -22 42 02.01735	25.7	1144.8	78.0	181.76	11.766	16.567	15.133	235.9	49.6
P	4069473236559835264	18 01 38.27271 -22 42 03.16159	18.8	8844.9	603.3	23.49	10.653	16.742	0	-22.7	144.0
Ti470689	2047-11-04 05:24:47.68	18 01 42.96811 -22 42 05.43772	46.6	624.7	73.1	1.15	13.893	18.314	17.183	146.5	49.4
Pt	4069473167856127872	18 01 42.96902 -22 42 04.81317	34.5	4827.7	565.4	23.48	10.656	18.489	0	-22.7	146.9
Ti470690	2047-11-04 11:47:34.53	18 01 48.01420 -22 42 06.81488	6.6	1003.9	70.3	0.49	11.917	14.627	14.085	50.6	49.1
P	4069473064776898304	18 01 48.01482 -22 42 05.81100	4.9	7761.0	544.2	23.54	10.659	14.805	0	-22.7	150.0
Ti470691	2047-11-04 13:56:44.55	18 01 49.72132 -22 42 05.12701	29.2	842.1	70.1	180.28	11.724	17.374	16.215	18.2	49.0
P	4069473099136632064	18 01 49.72102 -22 42 05.96909	21.5	6510.7	542.2	23.58	10.660	17.552	0	-22.7	151.1
Ti470692	2047-11-04 20:41:23.19	18 01 55.08544 -22 42 06.47418	9.1	581.1	71.5	359.61	10.356	15.335	14.114	276.8	48.8
Pt	4069473408374262016	18 01 55.08516 -22 42 05.89311	6.5	4494.2	553.2	23.73	10.664	15.521	0	-22.7	154.4
Ti470693	2047-11-04 21:42:52.87	18 01 55.90320 -22 42 05.25617	25.5	550.9	72.0	179.52	13.771	17.286	16.251	261.4	48.7
P	4069473408374259456	18 01 55.90353 -22 42 05.80705	18.4	4261.0	557.1	23.76	10.664	17.473	0	-22.7	154.9
Ti470694	2047-11-05 11:49:03.26	18 02 07.28594 -22 42 02.69691	83.9	27.5	85.0	178.29	12.053	18.973	17.453	49.3	48.2
Pg	4069470517851722112	18 02 07.28600 -22 42 02.72444	61.3	213.1	658.4	24.32	10.672	19.186	0	-22.7	161.8
Ti470695	2047-11-05 21:24:42.56	18 02 15.20083 -22 41 58.74648	36.6	4.9	97.9	177.50	14.270	17.903	16.815	265.0	47.8
Pgt	4069471759106750464	18 02 15.20084 -22 41 58.75138	26.6	38.0	758.6	24.85	10.677	18.139	0	-22.7	166.5
Ti470696	2047-11-06 04:31:35.52	18 02 21.18122 -22 41 53.88111	40.7	1057.6	108.1	177.15	13.134	18.023	16.948	158.1	47.5
P	4069471037552226560	18 02 21.18501 -22 41 54.93743	30.0	8193.4	838.1	25.31	10.681	18.279	0	-22.7	170.0
Ti470697	2047-11-06 20:36:35.62	18 02 35.14777 -22 41 44.35002	35.2	309.4	130.3	356.46	13.221	17.490	16.417	276.2	46.9
Pgt	4069471278070353920	18 02 35.14639 -22 41 44.04120	25.8	2399.0	1010.6	26.54	10.691	17.797	0	-22.7	177.6
Ti470698	2047-11-07 01:10:32.88	18 02 39.23680 -22 41 41.29567	8.1	818.8	135.9	356.34	12.780	14.889	14.235	207.5	46.7
Pt	4069471209351315712	18 02 39.23302 -22 41 40.47853	5.8	6350.4	1054.2	26.93	10.693	15.212	0	-22.7	178.6
Ti470699	2047-11-07 01:51:26.52	18 02 39.84840 -22 41 40.00660	43.4	74.6	136.7	356.31	11.857	17.628	16.448	197.3	46.7
Pg	4069471243710603264	18 02 39.84806 -22 41 39.93216	31.7	578.5	1060.5	26.99	10.694	17.954	0	-22.7	178.5
Ti470700	2047-11-07 05:04:41.55	18 02 42.77005 -22 41 36.77636	66.4	528.4	140.3	176.25	12.837	18.564	17.416	148.9	46.6
P	4069283570825406080	18 02 42.77254 -22 41 37.30368	52.3	4099.4	1088.8	27.28	10.696	18.901	0	-22.7	177.4
Ti470701	2047-11-07 16:06:58.71	18 02 53.03116 -22 41 28.27310	95.7	455.3	150.8	356.13	11.849	18.885	17.372	342.9	46.2
P	4069283635241449216	18 02 53.02894 -22 41 27.81882	71.5	3534.2	1171.1	28.30	10.702	19.262	0	-22.7	172.2
Ti470702	2047-11-07 17:55:40.51	18 02 54.75074 -22 41 26.77430	23.2	567.0	152.2	356.13	12.976	16.913	15.883	315.6	46.1
Pt	4069658740491563392	18 02 54.74797 -22 41 26.20860	15.1	4401.6	1182.2	28.47	10.704	17.296	0	-22.7	171.3
Ti470703	2047-11-07 19:02:38.88	18 02 55.81667 -22 41 26.11048	60.8	901.5	153.1	356.12	14.218	18.670	17.512	298.9	46.1
P	4069658740491804544	18 02 55.81227 -22 41 25.21105	44.0	6998.7	1188.7	28.58	10.704	19.057	0	-22.7	170.7
Ti470704	2047-11-08 19:21:22.20	18 03 19.99301 -22 41 03.88935	51.8	654.8	161.6	356.46	13.206	18.120	16.946	293.3	45.1
Pt	4069658225095730560	18 03 19.99009 -22 41 03.23582	39.0	5090.4	1256.6	30.97	10.719	18.595	0	-22.7	158.5
Ti480001	2048-02-17 05:13:58.89	18 51 26.20509 -22 15 43.84930	26.7	349.8	65.3	177.21	14.706	16.755	16.020	58.2	45.7
P	4078694222135731840	18 51 26.20631 -22 15 44.19868	23.4	2718.4	507.1	35.92	10.716	17.391	0	-22.2	84.6
Ti480002	2048-02-19 03:06:20.67	18 52 19.59555 -22 15 22.55559	12.7	851.2	120.7	179.40	14.256	16.011	15.391	88.4	47.4
P	4078784313366781312	18 52 19.59619 -22 15 23.40671	9.9	6599.2	934.9	33.29	10.690	16.564	0	-22.2	108.0
Ti480003	2048-02-19 07:40:52.35	18 52 24.65993 -22 15 22.72659	51.4	31.6	126.7	179.51	14.773	18.351	17.340	19.6	47.6
Pgt	4078785722116864384	18 52 24.65995 -22 15 22.75823	45.4	245.3	981.6	32.87	10.687	18.891	0	-22.2	110.3
Ti480004	2048-02-19 09:07:07.72	18 52 26.23786 -22 15 22.21314	8.7	376.1	128.5	179.57	13.372	15.312	14.663	358.0	47.6
Pt	4078738821071160192	18 52 26.23806 -22 15 22.58921	7.7	2914.8	995.5	32.74	10.686	15.847	0	-22.2	111.0
Ti480005	2048-02-20 12:18:45.80	18 52 54.80382 -22 15 22.20025	6.2	1021.7	151.5	359.87	11.552	14.443	13.585	309.1	48.6

Table 9 continued on next page

Table 9 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
P	4078738305674926208	18 52 54.80366 −22 15 21.17851	5.0	7906.2	1172.1	29.92	10.669	14.880	0	−22.2	124.5
Ti480006	2048-02-20 18:46:28.93	18 53 01.20783 −22 15 22.00516	25.1	1076.5	153.3	359.80	14.784	17.242	16.477	211.9	48.9
P	4078738129562086656	18 53 01.20755 −22 15 20.92870	20.7	8326.4	1185.8	29.21	10.665	17.653	0	−22.2	127.6
Ti480007	2048-02-21 16:58:17.51	18 53 22.04892 −22 15 18.52060	10.9	119.9	147.9	359.06	13.073	15.815	14.982	238.2	49.7
P _g	4078740882655151488	18 53 22.04878 −22 15 18.40073	9.4	926.0	1142.7	26.80	10.650	16.133	0	−22.2	138.5
Ti480008	2048-02-23 21:35:15.11	18 54 05.34576 −22 14 48.01428	26.9	300.4	83.3	174.57	14.963	17.491	16.690	166.9	51.8
P _g	4078730265495776768	18 54 05.34780 −22 14 48.31332	22.3	2313.0	642.1	22.80	10.617	17.633	0	−22.2	164.4
Ti480009	2048-02-28 01:36:43.06	18 55 22.10282 −22 11 53.28396	6.9	265.2	155.6	349.23	12.111	14.600	13.843	102.8	55.7
P _g	4078751190578465920	18 55 22.09926 −22 11 53.02342	5.6	2032.2	1192.8	25.10	10.565	14.847	0	−22.1	143.5
Ti480010	2048-02-28 12:01:00.16	18 55 30.91503 −22 11 31.07266	25.1	1013.5	161.5	349.53	14.838	16.960	16.248	306.3	56.1
P	4078751254979819520	18 55 30.90177 −22 11 30.07602	20.8	7762.8	1237.4	25.78	10.561	17.236	0	−22.1	137.8
Ti480011	2048-03-01 01:06:01.53	18 56 04.34713 −22 10 12.43405	15.4	736.2	153.5	351.47	13.841	16.187	15.449	108.7	57.5
P	4075754231118154752	18 56 04.33927 −22 10 11.70600	13.9	5629.4	1173.3	28.17	10.543	16.559	0	−22.1	116.9
Ti480012	2048-03-03 02:06:11.34	18 56 52.69052 −22 08 53.08300	17.3	866.9	87.9	355.08	14.826	16.516	15.934	91.8	59.3
P	4081756911769396608	18 56 52.68517 −22 08 52.21930	14.5	6613.1	670.2	30.02	10.518	16.957	0	−22.1	88.4
Ti480013	2048-03-03 07:31:18.63	18 56 58.19614 −22 08 45.63174	25.0	272.9	80.3	175.50	14.889	17.185	16.492	10.3	59.6
P _{gt}	4081756804375783424	18 56 58.19769 −22 08 45.90375	21.3	2080.9	612.1	30.06	10.515	17.628	0	−22.1	85.2
Ti480014	2048-03-08 21:26:48.50	18 58 58.55493 −22 08 13.31480	6.8	335.3	147.9	179.36	12.684	14.828	14.134	156.5	64.7
P _g	4081702004909232256	18 58 58.55520 −22 08 13.65005	6.1	2534.5	1118.4	19.92	10.423	14.823	0	−22.1	6.6
Ti480015	2048-03-11 11:10:50.84	18 59 35.37079 −22 07 38.04607	10.1	552.5	70.3	171.66	14.100	15.758	15.164	308.1	67.1
P	4081722517670080256	18 59 35.37656 −22 07 38.59269	9.1	4158.7	529.6	15.79	10.379	15.502	0	−22.1	28.7
Ti480016	2048-03-19 20:56:06.28	19 01 47.54438 −22 02 16.71557	62.9	310.4	68.2	356.80	14.928	18.607	17.609	154.0	75.0
P _{gt}	4081715503964972032	19 01 47.54313 −22 02 16.40566	55.3	2309.9	507.3	22.84	10.261	18.751	0	−22.0	134.6
Ti480017	2048-03-20 14:14:47.29	19 02 01.16405 −22 02 09.09729	15.1	519.5	72.2	358.46	13.725	16.258	15.527	253.7	75.6
Pt	4081621465673519104	19 02 01.16305 −22 02 08.57793	12.0	3862.0	536.3	22.32	10.249	16.377	0	−22.0	143.0
Ti480018 ^d	2048-03-20 14:35:45.61	19 02 01.43664 −22 02 09.51479	34.4	1037.9	72.5	358.49	14.140	17.383	16.459	248.5	75.6
P	4081621465673518080	19 02 01.43467 −22 02 08.47723	26.6	7715.0	538.7	22.30	10.249	17.501	0	−22.0	143.2
Ti480019 ^d	2048-03-20 14:39:23.86	19 02 01.48298 −22 02 09.10608	43.2	646.3	72.6	358.50	14.140	18.732	0	247.5	75.6
Pt	4081621465664058496	19 02 01.48176 −22 02 08.45999	30.8	4804.1	539.2	22.30	10.249	18.850	0	−22.0	143.2
Ti480020	2048-03-20 22:29:44.09	19 02 07.52330 −22 02 07.26408	15.7	489.5	81.9	359.20	13.844	16.445	15.603	129.7	75.9
Pt	4081621500033237120	19 02 07.52281 −22 02 06.77465	13.1	3636.3	607.9	21.92	10.243	16.544	0	−22.0	147.1
Ti480021	2048-03-21 20:04:28.22	19 02 23.49283 −22 02 08.14580	20.7	986.8	115.3	0.96	14.392	16.882	16.151	165.2	76.8
P	4081620915917626240	19 02 23.49402 −22 02 07.15914	16.9	7319.6	854.9	20.41	10.227	16.904	0	−22.0	157.7
Ti480022	2048-03-21 22:07:34.03	19 02 24.94971 −22 02 07.43881	23.3	85.6	118.5	181.10	14.639	17.106	16.330	134.3	76.9
P _g	4081620915917621760	19 02 24.94959 −22 02 07.52435	19.3	634.5	878.4	20.23	10.226	17.119	0	−22.0	158.7
Ti480023	2048-03-22 14:25:09.73	19 02 36.03672 −22 02 11.32278	25.7	595.7	140.9	182.12	14.682	17.171	16.449	249.3	77.5
P	4081618025387431424	19 02 36.03513 −22 02 11.91805	21.7	4412.4	1043.0	18.68	10.213	17.097	0	−22.0	166.7
Ti480024	2048-03-27 19:06:47.70	19 03 29.85038 −22 02 05.84243	25.8	937.3	68.6	166.39	14.774	17.391	16.573	174.0	82.4
P	4081612665268252672	19 03 29.86624 −22 02 06.75340	20.8	6876.9	503.6	8.18	10.116	16.420	0	−22.0	127.6
Ti480025	2048-03-29 03:13:47.08	19 03 38.85885 −22 01 29.29399	5.9	1002.3	101.7	340.34	12.351	14.343	13.705	50.9	83.7
Pt	4081612360342505984	19 03 38.83460 −22 01 28.35007	5.4	7338.8	745.1	8.60	10.095	13.426	0	−21.9	109.0
Ti480026	2048-04-03 10:53:53.54	19 04 30.45813 −21 58 14.80882	11.2	520.0	115.5	172.91	14.370	16.085	15.469	290.9	88.8
P	4081634556734169344	19 04 30.46274 −21 58 15.32484	9.5	3778.6	838.9	14.93	10.019	15.768	0	−21.9	31.6
Ti480027	2048-04-07 14:45:33.56	19 05 20.45915 −21 58 16.45747	4.4	524.7	145.7	187.84	11.256	13.732	12.978	229.1	92.7
Pt	4081587758769435392	19 05 20.45401 −21 58 16.97730	3.7	3785.6	1050.6	10.91	9.947	13.074	0	−21.9	26.3
Ti480028	2048-04-18 21:47:09.50	19 05 53.71679 −21 56 21.67351	16.6	224.7	138.1	347.94	14.810	16.930	16.247	112.7	103.6
P _{gt}	4081590881199774336	19 05 53.71342 −21 56 21.45374	15.8	1591.1	977.0	6.65	9.762	15.735	0	−21.9	165.9
Ti480029	2048-04-26 06:19:17.85	19 06 17.77789 −21 58 17.73615	11.2	675.0	148.0	156.37	14.282	16.121	15.530	337.5	110.7
P	4081590026511834240	19 06 17.79734 −21 58 18.35450	10.5	4716.9	1033.9	−4.51	9.636	14.503	0	−21.9	99.7
Ti480030	2048-04-27 09:30:35.68	19 06 12.45179 −21 58 37.46805	13.7	361.1	106.6	171.58	14.904	16.581	15.996	288.5	111.8

Table 9 continued on next page

Table 9 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4081589717274197888	19 06 12.45558 -21 58 37.82525	12.1	2518.2	743.8	-6.37	9.616	15.339	0	-21.9	83.2
Ti480031	2048-04-29 21:06:28.73	19 05 56.24819 -21 58 33.59514	18.2	959.6	100.3	187.98	14.908	16.926	16.236	112.1	114.3
P	4081590571962076288	19 05 56.23861 -21 58 34.54546	16.4	6665.4	696.6	-7.55	9.577	15.867	0	-21.9	45.9
Ti480032 ^d	2048-05-11 07:53:18.33	19 05 20.78090 -21 59 54.71715	20.0	28.3	170.7	160.99	14.515	17.258	16.205	298.9	125.5
Pgt	4081587346439121664	19 05 20.78156 -21 59 54.74393	18.8	193.4	1166.1	-9.61	9.417	16.463	0	-21.9	108.4
Ti480033 ^d	2048-05-11 07:54:55.39	19 05 20.74809 -21 59 53.81135	36.1	1033.3	170.7	161.01	14.515	18.327	0	298.5	125.5
P	4081587346451934464	19 05 20.77227 -21 59 54.78842	33.8	7057.2	1166.0	-9.62	9.416	17.532	0	-21.9	108.4
Ti480034	2048-05-14 01:56:11.57	19 04 50.49046 -22 01 13.63027	14.5	1212.9	82.3	355.54	14.824	16.609	15.988	25.4	128.3
Pt	4081586483147654144	19 04 50.48367 -22 01 12.42109	11.6	8245.9	560.0	-14.23	9.374	16.239	0	-21.9	141.4
Ti480035	2048-05-14 09:05:45.63	19 04 46.58150 -22 01 15.52804	5.1	602.9	76.0	176.63	11.697	14.305	13.523	277.7	128.6
P	4081586556177984384	19 04 46.58405 -22 01 16.12985	4.2	4096.9	516.5	-14.42	9.370	13.949	0	-21.9	144.9
Ti480036	2048-05-14 20:44:04.15	19 04 40.15136 -22 01 18.92008	44.7	1182.4	75.1	178.26	14.925	18.185	16.803	102.6	129.1
P	4081609989511574144	19 04 40.15395 -22 01 20.10195	32.5	8030.0	510.6	-14.57	9.364	17.841	0	-21.9	150.7
Ti480037	2048-05-17 02:03:48.19	19 04 11.43392 -22 01 10.34848	9.6	1316.9	154.0	183.68	13.403	15.703	15.005	20.3	131.3
P	4081610569324252288	19 04 11.42785 -22 01 11.66265	7.8	8918.7	1043.6	-13.13	9.338	15.246	0	-21.9	176.9
Ti480038	2048-05-19 00:41:51.90	19 03 50.67835 -22 00 47.99866	5.7	860.9	185.1	184.52	13.070	14.303	13.868	38.8	133.3
P	4081612429061953152	19 03 50.67347 -22 00 48.85691	4.6	5819.0	1250.8	-10.06	9.319	13.558	0	-21.9	159.4
Ti480039	2048-05-19 04:25:08.85	19 03 49.26522 -22 00 46.76309	12.2	579.0	184.1	184.31	13.960	15.750	15.134	342.8	133.4
Pt	4081612429061958528	19 03 49.26209 -22 00 47.34045	9.3	3912.8	1243.5	-9.80	9.318	14.976	0	-21.9	157.5
Ti480040	2048-05-20 11:45:47.39	19 03 38.76805 -22 00 40.82693	19.7	187.4	155.3	359.91	14.932	17.056	16.393	231.3	134.7
Pg	4081613116256761088	19 03 38.76802 -22 00 40.63957	16.2	1264.5	1047.2	-7.78	9.306	16.031	0	-21.9	141.3
Ti480041	2048-05-21 12:12:27.58	19 03 32.01140 -22 00 47.14658	21.7	976.8	114.4	352.67	14.380	17.423	16.527	223.6	135.7
Pt	4081612802710684800	19 03 32.00244 -22 00 46.17775	18.0	6585.4	770.4	-6.81	9.296	16.252	0	-21.9	128.2
Ti480042	2048-05-23 12:48:35.98	19 03 19.69953 -22 01 33.83040	16.0	9.4	83.7	338.37	14.861	16.784	16.138	212.6	137.7
Pgt	4081612905786443136	19 03 19.69928 -22 01 33.82170	13.4	62.9	562.5	-7.54	9.273	15.725	0	-22.0	101.0
Ti480043	2048-05-24 06:56:04.76	19 03 14.52100 -22 02 05.01798	6.0	1305.9	113.1	337.16	11.214	14.028	13.209	299.9	138.5
P	4081607034583137280	19 03 14.48455 -22 02 03.81447	4.3	8773.7	759.4	-8.70	9.264	13.124	0	-22.0	90.3
Ti480044	2048-05-25 12:39:08.46	19 03 03.93802 -22 03 03.95356	18.1	907.5	159.8	339.42	14.383	16.336	15.678	212.9	139.7
Pt	408161867822247904	19 03 03.91508 -22 03 03.10398	12.9	6086.4	1071.2	-11.31	9.247	15.716	0	-22.0	72.3
Ti480045	2048-05-26 02:11:01.07	19 02 57.99639 -22 03 31.55444	25.5	831.5	172.4	161.35	14.865	17.067	16.392	9.3	140.3
P	4081618265905544448	19 02 58.01551 -22 03 32.34226	20.8	5572.0	1154.8	-12.67	9.240	16.572	0	-22.0	63.9
Ti480046	2048-05-26 15:04:09.23	19 02 51.70319 -22 04 01.20023	80.0	931.3	177.4	343.38	14.989	18.693	17.622	175.5	140.8
Pt	4081618368993288192	19 02 51.68403 -22 04 00.30788	66.1	6235.7	1187.8	-14.00	9.232	18.306	0	-22.0	55.8
Ti480047	2048-05-28 03:51:40.63	19 02 29.78791 -22 05 13.45720	61.9	308.0	153.5	169.18	14.261	18.488	17.580	342.0	142.4
Pgt	4081617205057440768	19 02 29.79207 -22 05 13.75976	48.5	2058.0	1025.7	-17.49	9.212	18.342	0	-22.0	32.4
Ti480048	2048-05-29 19:01:01.34	19 02 01.51310 -22 06 08.81140	12.1	403.6	90.6	174.44	13.466	16.137	15.326	113.0	144.1
Pt	4081526559763737728	19 02 01.51591 -22 06 09.21313	9.7	2691.1	604.4	-19.78	9.193	16.125	0	-22.0	7.6
Ti480049	2048-05-31 10:22:13.86	19 01 30.86069 -22 06 34.58011	14.8	221.3	94.1	178.45	14.848	16.731	16.157	240.9	145.7
Pgt	4081525670725610368	19 01 30.86112 -22 06 34.80133	13.5	1472.9	626.6	-20.00	9.177	16.731	0	-22.0	16.8
Ti480050	2048-06-02 06:11:42.23	19 00 58.10074 -22 06 34.23529	9.0	1049.3	165.7	181.11	14.031	15.825	15.229	301.6	147.6
P	4081714030814839424	19 00 58.09929 -22 06 35.28438	7.9	6973.4	1101.6	-18.07	9.163	15.714	0	-22.0	42.4
Ti480051	2048-06-02 09:15:14.22	19 00 55.95588 -22 06 35.43941	6.5	754.4	169.5	1.20	13.058	14.939	14.325	255.6	147.8
Pt	4081714030814844160	19 00 55.95702 -22 06 34.68522	5.1	5012.9	1126.4	-17.87	9.162	14.816	0	-22.0	44.1
Ti480052	2048-06-02 21:32:33.79	19 00 47.59420 -22 06 33.00732	21.0	1027.2	181.4	1.43	14.899	17.066	16.407	70.7	148.3
P	4081711144596840320	19 00 47.59604 -22 06 31.98045	18.7	6823.6	1205.4	-17.03	9.159	16.891	0	-22.0	51.0
Ti480053	2048-06-03 02:31:28.77	19 00 44.32618 -22 06 29.57211	18.9	1265.8	184.8	181.44	14.847	17.194	16.431	355.8	148.5
P	4081711110237453184	19 00 44.32388 -22 06 30.83747	16.2	8407.2	1227.3	-16.66	9.158	16.995	0	-22.0	53.7
Ti480054	2048-06-03 16:16:21.12	19 00 35.66179 -22 06 28.26738	16.7	311.8	189.0	1.23	14.093	16.636	15.843	149.0	149.1
Pgt	4081711282019614464	19 00 35.66227 -22 06 27.95563	14.1	2070.4	1254.9	-15.64	9.155	16.369	0	-22.0	61.2
Ti480055	2048-06-07 03:27:46.46	18 59 53.47887 -22 06 56.37939	7.7	661.3	87.4	169.65	13.792	15.448	14.873	337.5	152.5

Table 9 continued on next page

Table 9 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4081722242792153344	18 59 53.48743 -22 06 57.02990	7.0	4380.6	578.7	-11.44	9.134	14.841	0	-22.0	104.6
Ti480056	2048-06-07 16:02:29.20	18 59 47.96478 -22 07 12.69284	8.3	108.2	75.9	167.18	13.923	15.489	14.912	148.3	153.1
Pgt	4081721864835037568	18 59 47.96651 -22 07 12.79834	7.4	716.4	502.3	-11.53	9.130	14.891	0	-22.0	110.9
Ti480057	2048-06-10 05:06:51.41	18 59 18.18327 -22 09 12.83852	7.3	411.1	155.7	343.26	12.866	15.390	14.585	309.6	155.6
Pt	4081699153047467776	18 59 18.17474 -22 09 12.44486	6.2	2715.5	1027.7	-15.18	9.108	15.090	0	-22.1	141.2
Ti480058	2048-06-10 08:42:26.28	18 59 16.11297 -22 09 21.52255	19.4	492.5	160.4	343.46	14.603	17.292	16.435	255.5	155.8
Pt	4081698843809575552	18 59 16.10288 -22 09 21.05046	16.1	3252.6	1058.6	-15.51	9.107	17.016	0	-22.1	143.0
Ti480059	2048-06-10 18:57:31.95	18 59 09.93491 -22 09 46.68340	5.3	726.9	171.3	344.20	12.994	14.614	14.045	101.3	156.2
Pt	4081698809449853568	18 59 09.92066 -22 09 45.98401	4.2	4798.5	1130.2	-16.50	9.102	14.405	0	-22.1	148.1
Ti480060*	2048-06-15 02:33:57.12	18 57 45.69767 -22 13 07.59018	23.9	1161.6	80.9	175.43	14.017	16.055	15.403	342.6	160.7
P	4081740895816803968	18 57 45.70434 -22 13 08.74812	19.4	7638.2	532.6	-23.92	9.066	16.249	0	-22.1	160.0
Ti480061	2048-06-15 16:05:15.25	18 57 32.95581 -22 13 21.49062	13.8	491.7	78.7	356.64	14.166	16.349	15.657	139.2	161.3
Pt	4081740998896012160	18 57 32.95373 -22 13 20.99982	11.0	3231.6	517.6	-23.97	9.063	16.546	0	-22.2	153.1
Ti480062	2048-06-15 18:21:23.56	18 57 30.81741 -22 13 23.95892	16.3	1263.6	80.0	356.83	14.025	16.559	15.766	105.0	161.3
P	4081741003210287232	18 57 30.81238 -22 13 22.69722	12.9	8305.5	526.2	-23.95	9.062	16.754	0	-22.2	152.0
Ti480063	2048-06-15 21:45:14.45	18 57 27.60827 -22 13 24.96210	19.6	91.6	82.8	177.12	14.184	16.789	15.985	53.9	161.5
Pgt	4081743580190679552	18 57 27.60860 -22 13 25.05363	15.2	602.3	544.5	-23.91	9.062	16.983	0	-22.2	150.2
Ti480064	2048-06-16 01:18:22.32	18 57 24.26484 -22 13 27.42349	19.0	138.2	86.6	357.39	14.511	16.476	15.858	0.5	161.7
Pgt	4081743575876386304	18 57 24.26439 -22 13 27.28547	13.5	907.9	569.8	-23.86	9.061	16.668	0	-22.2	148.4
Ti480065	2048-06-16 20:00:41.12	18 57 06.84256 -22 13 35.93141	17.3	488.4	116.3	358.70	14.811	16.777	16.096	79.0	162.5
Pt	4075739696939093632	18 57 06.84177 -22 13 35.44309	14.1	3208.7	764.6	-23.30	9.058	16.943	0	-22.2	138.7
Ti480066* ^a	2048-06-21 14:42:42.37	18 55 38.63367 -22 13 46.24943	21.4	137.0	148.0	356.29	13.185	15.957	14.588	153.5	167.4
Pgt	4075748458673224448	18 55 38.63303 -22 13 46.11273	16.3	899.0	970.7	-15.34	9.048	15.669	0	-22.2	75.0
Ti480067* ^a	2048-06-21 14:43:58.89	18 55 38.62303 -22 13 46.73542	39.6	612.4	148.0	356.29	13.185	16.047	14.590	153.1	167.4
Pt	4075748458682130560	18 55 38.62018 -22 13 46.12430	29.7	4018.9	970.5	-15.34	9.048	15.760	0	-22.2	75.0
Ti480068	2048-06-22 08:42:26.32	18 55 28.07472 -22 13 58.75486	16.5	230.1	116.0	173.56	14.632	16.677	15.953	242.7	168.1
Pgt	407574859612334912	18 55 28.07658 -22 13 58.98351	13.8	1509.8	760.7	-14.54	9.047	16.331	0	-22.2	64.2
Ti480069	2048-06-24 12:59:56.49	18 54 58.93237 -22 15 14.72295	7.4	195.1	94.2	165.89	13.480	15.333	14.704	176.1	170.3
Pgt	4078749369511658368	18 54 58.93579 -22 15 14.91214	6.3	1279.1	617.1	-14.88	9.041	15.013	0	-22.2	31.7
Ti480070	2048-06-27 04:04:26.20	18 54 17.69959 -22 17 46.16407	16.3	594.2	179.9	346.42	14.129	16.872	16.040	307.2	173.0
Pt	4078729097264552448	18 54 17.68953 -22 17 45.58644	14.1	3891.0	1177.8	-19.81	9.028	16.862	0	-22.2	8.3
Ti480071	2048-06-27 15:09:52.58	18 54 08.97815 -22 18 13.27572	6.2	421.8	181.4	167.40	12.132	14.632	13.866	140.4	173.4
Pt	4078728959825631488	18 54 08.98478 -22 18 13.68732	5.3	2760.9	1187.3	-20.86	9.026	14.678	0	-22.2	15.2
Ti480072	2048-06-30 12:56:03.40	18 53 04.66648 -22 20 33.54277	30.6	131.4	94.9	174.52	14.148	17.839	16.780	170.7	176.4
Pgt	4078734594799141120	18 53 04.66738 -22 20 33.67360	24.5	859.3	620.9	-25.38	9.015	18.098	0	-22.3	56.8
Ti480073	2048-06-30 23:25:07.72	18 52 54.10547 -22 20 46.29075	9.6	178.1	82.5	175.49	13.792	15.909	15.219	12.9	176.9
Pgt	4078734354304891520	18 52 54.10648 -22 20 46.46830	8.0	1164.4	539.7	-25.54	9.014	16.175	0	-22.3	62.7
Ti480074	2048-07-02 12:28:31.50	18 52 16.84145 -22 21 14.15418	30.9	653.7	108.7	358.38	14.842	17.766	16.807	175.4	178.5
Pt	4078736377216372736	18 52 16.84012 -22 21 13.50073	24.2	4273.5	710.9	-24.89	9.013	18.003	0	-22.3	82.9
Ti480075	2048-07-02 17:45:35.44	18 52 11.64456 -22 21 15.44355	21.4	117.7	118.0	358.71	14.508	17.230	16.455	95.9	178.7
Pg	4078736347169939456	18 52 11.64437 -22 21 15.32585	15.6	769.6	771.8	-24.65	9.014	17.457	0	-22.3	85.7
Ti480076	2048-07-03 10:43:22.37	18 51 55.35145 -22 21 19.50908	4.4	945.1	147.6	359.61	10.858	13.872	12.996	200.7	179.3
Pt	4078689652290364928	18 51 55.35098 -22 21 18.56396	3.8	6179.4	965.6	-23.69	9.015	14.056	0	-22.3	94.6
Ti480077	2048-07-03 16:10:56.11	18 51 50.25504 -22 21 18.06066	5.3	846.6	156.2	179.83	12.020	14.198	13.487	118.6	179.4
Pt	4078689617930640384	18 51 50.25522 -22 21 18.90727	4.4	5535.5	1022.1	-23.33	9.015	14.365	0	-22.3	97.5

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

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

Table 10. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 10 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _p (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _p (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
Ti480078	2048-07-05 23:32:17.63	18 51 03.83967 -22 21 16.13666	7.4	235.9	189.2	179.82	12.035	15.071	14.190	5.8	177.8
Pgt	4078691988752735232	18 51 03.83973 -22 21 16.37259	6.1	1543.7	1237.5	-18.78	9.022	15.003	0	-22.3	125.5
Ti480079	2048-07-06 11:22:12.61	18 50 55.25962 -22 21 17.01094	11.1	422.7	181.0	179.10	13.688	15.836	15.137	187.8	177.3
Pt	4078692396747878656	18 50 55.26010 -22 21 17.43363	9.6	2766.5	1184.0	-17.80	9.023	15.709	0	-22.3	131.4
Ti480080	2048-07-06 14:40:51.59	18 50 52.93950 -22 21 16.71594	12.4	1294.1	177.8	178.84	13.237	16.124	15.271	137.9	177.2
P	4078692396747879040	18 50 52.94138 -22 21 18.00978	10.0	8469.5	1162.9	-17.54	9.024	15.981	0	-22.3	133.0
Ti480081	2048-07-06 20:31:55.72	18 50 48.92822 -22 21 19.64210	46.2	264.7	171.1	358.33	14.428	18.440	17.719	49.9	176.9
Pgt	4078692362390458624	18 50 48.92767 -22 21 19.37754	41.5	1732.3	1119.7	-17.09	9.025	18.269	0	-22.3	135.9
Ti480082	2048-07-07 15:02:54.52	18 50 36.87687 -22 21 27.02026	46.7	135.9	143.6	176.19	14.947	18.590	17.553	131.4	176.1
Pgt	4078686727391038464	18 50 36.87753 -22 21 27.15586	42.6	889.7	939.5	-15.84	9.027	18.337	0	-22.3	145.1
Ti480083	2048-07-08 22:52:20.99	18 50 17.92219 -22 21 56.27483	24.7	673.9	89.0	351.23	14.668	17.332	16.556	12.6	174.8
Pt	4078698203543635712	18 50 17.91478 -22 21 55.60885	19.6	4413.5	582.3	-14.65	9.030	16.994	0	-22.3	160.9
Ti480084	2048-07-09 12:14:35.45	18 50 10.30197 -22 22 14.40165	11.0	456.3	77.9	349.10	13.984	16.009	15.316	171.5	174.3
Pt	4078698139146461312	18 50 10.29576 -22 22 13.95355	9.5	2989.0	509.9	-14.60	9.031	15.668	0	-22.3	167.5
Ti480085	2048-07-12 17:30:53.66	18 49 22.08542 -22 25 01.54206	7.6	685.3	175.5	345.98	13.915	15.260	14.754	89.0	171.0
Pt	4078676728707026688	18 49 22.07345 -22 25 00.87716	6.1	4489.5	1149.4	-18.96	9.033	15.203	0	-22.4	153.4
Ti480086	2048-07-13 07:34:44.64	18 49 11.43754 -22 25 34.91857	23.9	1311.4	181.2	167.07	14.796	17.497	16.624	237.4	170.4
P	4078677042251972352	18 49 11.45870 -22 25 36.19667	20.4	8590.9	1187.3	-20.21	9.033	17.509	0	-22.4	146.2
Ti480087	2048-07-13 12:08:39.74	18 49 07.86370 -22 25 47.92276	20.2	452.4	181.2	347.47	13.696	17.183	16.177	168.8	170.2
Pt	4078677003584898560	18 49 07.85662 -22 25 47.48113	16.3	2963.6	1187.4	-20.61	9.033	17.216	0	-22.4	143.8
Ti480088	2048-07-13 18:00:57.69	18 49 03.12277 -22 26 02.48558	8.1	734.8	179.9	348.03	12.056	15.136	14.232	80.4	170.0
Pt	4078676969225151488	18 49 03.11178 -22 26 01.76673	5.9	4813.9	1178.7	-21.11	9.032	15.195	0	-22.4	140.7
Ti480089	2048-07-13 21:01:24.91	18 49 00.65147 -22 26 10.18627	15.6	1249.9	178.6	348.32	13.505	16.101	15.300	35.2	169.8
Pt	4078676969225146368	18 49 00.63323 -22 26 08.96228	13.6	8187.9	1170.4	-21.37	9.032	16.173	0	-22.4	139.2
Ti480090	2048-07-14 21:25:18.89	18 48 39.39128 -22 27 02.07489	25.8	956.6	155.2	170.86	14.814	17.582	16.713	28.1	168.8
P	4078863306410124288	18 48 39.40224 -22 27 03.01938	20.1	6267.1	1017.3	-23.19	9.033	17.743	0	-22.4	126.3
Ti480091	2048-07-15 03:00:50.36	18 48 34.27920 -22 27 13.62143	7.0	435.8	147.1	171.46	12.304	15.130	14.280	304.0	168.5
Pt	4078863134611454976	18 48 34.28387 -22 27 14.05244	5.5	2855.4	963.9	-23.53	9.033	15.306	0	-22.4	123.3
Ti480092	2048-07-15 19:13:24.75	18 48 19.02973 -22 27 42.14997	16.3	400.1	120.0	173.17	14.332	16.588	15.871	60.1	167.8
Pt	4078863783122957184	18 48 19.03316 -22 27 42.54726	13.9	2621.7	787.1	-24.31	9.034	16.799	0	-22.4	114.6
Ti480093*	2048-07-15 20:16:17.73	18 48 18.02093 -22 27 43.19780	8.3	1009.3	118.2	173.28	11.379	13.004	12.432	44.3	167.8
P	4078857911931299968	18 48 18.02945 -22 27 44.20021	6.8	6613.3	775.1	-24.34	9.034	13.217	0	-22.4	114.0
Ti480094	2048-07-15 22:28:18.89	18 48 15.90589 -22 27 46.29883	24.9	1302.4	114.4	173.51	14.646	17.617	16.665	11.2	167.7
P	4078857976360223360	18 48 15.91651 -22 27 47.59287	20.7	8533.6	750.1	-24.42	9.034	17.834	0	-22.4	112.8
Ti480095	2048-07-16 09:20:36.13	18 48 05.38615 -22 28 03.30428	3.6	518.5	96.6	354.60	10.502	13.149	12.345	207.7	167.2
Pt	4078858045046425984	18 48 05.38263 -22 28 02.78812	3.0	3397.4	633.4	-24.70	9.035	13.378	0	-22.4	106.9
Ti480096	2048-07-16 16:25:57.73	18 47 58.45919 -22 28 12.10035	24.5	826.7	87.2	355.29	14.290	17.549	16.579	101.0	166.9
Pt	4078860656386748800	18 47 58.45429 -22 28 11.27645	20.1	5417.8	571.8	-24.79	9.036	17.782	0	-22.4	103.0
Ti480097	2048-07-18 15:28:56.81	18 47 12.92184 -22 28 39.70220	10.9	1147.6	118.6	179.14	13.549	15.761	14.994	113.1	164.9
P	4078871617143275392	18 47 12.92309 -22 28 40.84970	8.7	6528.1	778.7	-23.63	9.045	15.942	0	-22.4	76.6
Ti480098	2048-07-19 09:27:03.63	18 46 56.50270 -22 28 41.53545	9.2	721.8	149.5	180.16	13.107	15.715	14.886	202.8	164.1
Pt	4078496516213956096	18 46 56.50257 -22 28 42.15726	7.2	4081.0	981.6	-22.48	9.049	15.842	0	-22.4	66.2
Ti480099	2048-07-19 11:10:13.41	18 46 54.97660 -22 28 42.67462	22.3	593.0	152.2	0.25	14.857	17.382	16.599	176.9	164.0
Pt	4078496516213965568	18 46 54.97678 -22 28 42.08165	17.7	3891.9	999.4	-22.36	9.050	17.503	0	-22.4	65.2
Ti480100	2048-07-20 00:25:06.83	18 46 43.52468 -22 28 40.26743	16.9	372.8	170.6	180.77	14.513	16.936	16.195	337.6	163.5
Pgt	4078497199075022208	18 46 43.52432 -22 28 40.64017	13.8	2447.7	1120.6	-21.32	9.053	17.005	0	-22.4	57.4
Ti480101	2048-07-20 15:18:35.57	18 46 31.34878 -22 28 37.91698	22.9	66.0	184.8	1.07	14.961	17.449	16.663	113.6	162.8

Table 10 continued on next page

Table 10 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
Pgt	407849982213189248	18 46 31.34887 -22 28 37.85098	18.1	433.7	1214.2	-20.02	9.058	17.450	0	-22.4	48.5
Ti480102	2048-07-20 18:44:13.36	18 46 28.65915 -22 28 36.26971	11.1	869.2	186.9	181.10	14.219	15.884	15.283	62.0	162.7
Pt	407849986547676672	18 46 28.65794 -22 28 37.13877	8.3	5711.0	1228.4	-19.71	9.059	15.868	0	-22.4	46.4
Ti480103 ^d	2048-07-20 21:53:45.80	18 46 26.21513 -22 28 36.70582	21.6	222.9	188.5	1.11	14.217	17.221	16.146	14.5	162.5
Pgt	407849952158261376	18 46 26.21544 -22 28 36.48295	16.6	1464.8	1238.9	-19.42	9.060	17.189	0	-22.4	44.5
Ti480104 ^d	2048-07-20 21:59:51.54	18 46 26.13719 -22 28 36.68190	47.0	220.0	188.6	1.11	14.217	18.426	0	13.0	162.5
Pgt	407849952187952384	18 46 26.13749 -22 28 36.46198	41.6	1445.4	1239.2	-19.41	9.060	18.394	0	-22.4	44.5
Ti480105	2048-07-21 02:46:12.26	18 46 22.51721 -22 28 36.69276	10.0	1196.7	190.2	1.09	13.640	15.620	14.954	301.2	162.3
P	407849952187972224	18 46 22.51885 -22 28 35.49632	7.7	7864.6	1250.2	-18.97	9.062	15.562	0	-22.4	41.6
Ti480106	2048-07-21 18:07:04.19	18 46 11.45325 -22 28 32.78395	11.7	190.3	189.4	180.71	13.478	15.963	14.991	70.3	161.7
Pgt	4078499466817668992	18 46 11.45308 -22 28 32.97421	8.7	1251.2	1245.2	-17.54	9.067	15.820	0	-22.4	32.2
Ti480107	2048-07-21 18:50:54.35	18 46 10.94916 -22 28 31.53866	5.1	1350.5	189.1	180.68	11.930	13.801	13.184	59.3	161.6
P	4078499466817120512	18 46 10.94800 -22 28 32.88911	3.6	8881.1	1243.5	-17.47	9.067	13.654	0	-22.4	31.8
Ti480108	2048-07-23 01:26:50.25	18 45 51.47695 -22 28 33.11656	7.1	1248.8	160.3	178.22	11.895	14.670	13.835	319.0	160.4
P	4078499264993356800	18 45 51.47975 -22 28 34.36479	5.1	8221.5	1054.5	-14.86	9.077	14.347	0	-22.4	12.8
Ti480109	2048-07-23 18:22:10.77	18 45 41.96662 -22 28 39.75513	26.5	1310.9	132.7	175.80	13.182	17.390	16.531	64.4	159.6
P	4078546127345182720	18 45 41.97354 -22 28 41.06256	20.1	8635.5	873.4	-13.73	9.082	16.981	0	-22.4	2.4
Ti480110	2048-07-24 14:25:57.91	18 45 31.55273 -22 28 54.86514	21.4	1228.6	97.5	172.17	14.785	17.109	16.395	122.6	158.8
P	4078540496683448448	18 45 31.56480 -22 28 56.08230	17.2	8098.5	642.5	-12.85	9.088	16.628	0	-22.4	10.3
Ti480111	2048-07-25 13:33:59.84	18 45 20.24149 -22 29 25.09332	29.2	1231.5	78.0	347.84	14.819	17.248	16.526	134.6	157.8
P	4078541145178078976	18 45 20.22277 -22 29 23.88945	22.7	8123.2	513.8	-12.59	9.095	16.746	0	-22.4	24.6
Ti480112	2048-07-26 07:38:57.52	18 45 11.40161 -22 29 52.92927	18.6	423.8	94.3	165.24	13.563	16.420	15.570	222.6	157.1
Pt	4078540943361442048	18 45 11.40940 -22 29 53.33908	13.6	2796.7	622.1	-12.97	9.099	15.950	0	-22.4	35.6
Ti480113	2048-07-26 13:33:03.77	18 45 08.48560 -22 30 04.78199	25.4	514.6	103.7	344.64	14.074	16.639	15.830	133.8	156.8
Pt	4078540835939679616	18 45 08.47576 -22 30 04.28573	17.3	3396.7	684.0	-13.20	9.100	16.188	0	-22.4	39.2
Ti480114	2048-07-26 15:40:11.45	18 45 07.42917 -22 30 09.25204	29.5	924.1	107.3	344.47	14.325	17.163	16.214	101.9	156.8
Pt	4078540835939676288	18 45 07.41131 -22 30 08.36172	21.6	6099.4	707.6	-13.30	9.101	16.719	0	-22.4	40.4
Ti480115	2048-07-26 21:22:11.09	18 45 04.50135 -22 30 19.14174	12.6	565.1	117.2	164.07	13.202	15.613	14.846	16.2	156.5
Pt	4078540874641983360	18 45 04.51254 -22 30 19.68517	9.2	3730.6	773.0	-13.57	9.102	15.193	0	-22.5	43.9
Ti480116	2048-07-27 03:34:37.55	18 45 01.28158 -22 30 32.26446	46.1	312.8	128.0	163.79	14.938	18.028	17.289	282.8	156.3
Pgt	4078540870305105408	18 45 01.28788 -22 30 32.56485	34.7	2065.3	844.6	-13.92	9.103	17.634	0	-22.5	47.6
Ti480117	2048-07-27 18:34:04.24	18 44 53.16273 -22 31 06.77055	8.5	1227.3	151.9	343.74	12.339	14.680	13.933	57.3	155.6
P	4078542317750912768	18 44 53.13793 -22 31 05.59238	6.0	8105.3	1003.0	-14.91	9.106	14.362	0	-22.5	56.4
Ti480118	2048-07-29 07:05:43.02	18 44 30.50120 -22 32 32.12743	10.7	1263.9	179.7	346.27	13.294	15.880	15.066	227.8	154.1
P	4078541974151982336	18 44 30.47955 -22 32 30.89962	7.9	8353.3	1187.9	-17.84	9.112	15.755	0	-22.5	77.1
Ti480119	2048-07-30 15:09:21.32	18 44 06.97812 -22 33 40.61580	22.2	1099.1	158.7	349.96	14.376	17.075	16.207	105.5	152.7
Pt	4078519056205672704	18 44 06.96428 -22 33 39.53351	18.3	7269.0	1050.3	-20.20	9.118	17.086	0	-22.5	94.6
Ti480120	2048-07-30 18:38:43.76	18 44 04.20998 -22 33 45.25204	34.2	881.2	154.2	170.38	14.341	17.890	17.111	53.0	152.6
Pt	4078519017511477760	18 44 04.22061 -22 33 46.12087	26.4	5828.4	1020.3	-20.41	9.119	17.912	0	-22.5	96.4
Ti480121	2048-07-30 18:57:08.45	18 44 03.98624 -22 33 47.37817	42.5	698.1	153.8	350.41	14.981	18.188	17.368	48.3	152.6
Pt	4078519021845939840	18 44 03.97785 -22 33 46.68983	36.7	4617.1	1017.5	-20.42	9.119	18.211	0	-22.5	96.6
Ti480122	2048-07-31 20:21:14.33	18 43 43.19946 -22 34 28.45343	6.7	1093.8	112.9	353.46	12.871	14.772	14.104	26.2	151.5
Pt	4078529467205697280	18 43 43.19046 -22 34 27.36673	5.2	7239.4	747.7	-21.52	9.125	14.851	0	-22.5	109.9
Ti480123	2048-08-01 00:37:43.22	18 43 39.59523 -22 34 33.47405	45.4	609.0	105.7	353.95	14.687	18.405	17.428	321.9	151.3
Pt	4078529364102483456	18 43 39.59060 -22 34 32.86843	40.1	4031.2	700.4	-21.62	9.127	18.489	0	-22.5	112.1
Ti480124	2048-08-01 20:03:45.33	18 43 23.06905 -22 34 52.79852	13.5	74.4	81.3	356.09	13.125	15.895	15.059	29.5	150.4
Pgt	4078529845162961152	18 43 23.06869 -22 34 52.72430	9.5	492.7	539.0	-21.76	9.132	15.987	0	-22.5	122.0
Ti480125	2048-08-02 14:15:38.48	18 43 07.64774 -22 35 03.33129	28.5	465.5	84.2	177.94	14.521	17.375	16.499	115.7	149.7
Pt	4078526993304792448	18 43 07.64895 -22 35 03.79648	22.5	3085.2	558.6	-21.41	9.139	17.449	0	-22.5	131.2
Ti480126	2048-08-03 15:04:13.81	18 42 47.33893 -22 35 07.66707	17.4	836.7	121.2	180.09	13.452	16.750	15.918	102.5	148.6

Table 10 continued on next page

Table 10 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
P	4078527573086299904	18 42 47.33883 -22 35 08.50378	12.9	5551.6	804.7	-20.23	9.148	16.763	0	-22.5	143.6
Ti480127	2048-08-04 04:11:36.20	18 42 37.16160 -22 35 07.73902	66.4	641.0	143.5	1.03	13.783	18.480		265.0	148.0
Pt	4078527714836912256	18 42 37.16243 -22 35 07.09812	59.2	4255.7	953.2	-19.33	9.154	18.443	0	-22.5	150.1
Ti480128	2048-08-04 20:53:23.01	18 42 24.96554 -22 35 02.82796	31.1	220.0	167.4	1.97	14.361	17.805	16.964	13.9	147.3
Pgt	4079276855923793280	18 42 24.96609 -22 35 02.60806	23.5	1462.1	1112.7	-17.97	9.162	17.688	0	-22.5	158.3
Ti480129	2048-08-05 05:40:37.92	18 42 18.92906 -22 34 59.44758	10.0	11.8	176.8	182.38	12.850	15.770	14.880	241.7	146.9
Pgt	4079276958972707328	18 42 18.92903 -22 34 59.45932	7.6	78.1	1175.8	-17.18	9.166	15.604	0	-22.5	162.7
Ti480130	2048-08-05 10:20:28.02	18 42 15.83951 -22 34 57.56262	12.2	104.0	180.8	182.47	13.938	15.955	15.240	171.5	146.7
Pgt	4079277032038655744	18 42 15.83918 -22 34 57.66652	9.3	691.5	1202.3	-16.74	9.168	15.762	0	-22.5	165.0
Ti480131	2048-08-06 07:28:50.56	18 42 02.87208 -22 34 49.11631	20.7	369.7	188.6	182.60	13.471	17.030	15.934	213.5	145.8
Pgt	4079277616103578240	18 42 02.87087 -22 34 49.48564	15.4	2461.2	1255.8	-14.68	9.179	16.695	0	-22.5	175.5
Ti480132	2048-08-07 08:03:18.04	18 41 49.95283 -22 34 42.57366	12.0	240.4	176.2	181.32	14.037	15.596	15.003	203.8	144.8
Pgt	4079280502372429312	18 41 49.95243 -22 34 42.81400	9.1	1602.6	1174.0	-12.31	9.191	15.069	0	-22.5	172.1
Ti480133	2048-08-07 19:46:51.72	18 41 44.56609 -22 34 41.05378	9.6	848.4	162.7	179.97	13.365	15.677	14.913	27.4	144.3
P	4079186734668891520	18 41 44.56613 -22 34 41.90217	7.4	5659.0	1084.8	-11.28	9.197	15.055	0	-22.5	166.1
Ti480134	2048-08-07 23:40:36.56	18 41 42.87901 -22 34 41.88077	66.8	150.2	157.3	179.39	14.972	18.681	17.431	328.8	144.2
Pgt	4079186734668902400	18 41 42.87913 -22 34 42.03094	58.8	1001.9	1049.1	-10.96	9.199	18.028	0	-22.5	164.1
Ti480135	2048-08-10 22:38:39.16	18 41 18.02547 -22 35 34.87072	9.7	469.3	84.7	341.68	8.177	13.373	11.967	341.3	141.2
Pt	4079187142621821568	18 41 18.01481 -22 35 34.42523	7.4	3141.9	566.9	-8.62	9.231	12.459	0	-22.5	127.1
Ti480136	2048-08-13 10:24:40.71	18 40 56.36341 -22 37 27.68890	19.7	787.9	169.5	340.54	14.152	17.008	16.130	162.2	138.8
P	4079197489267281792	18 40 56.34445 -22 37 26.94600	15.4	5287.5	1137.7	-11.89	9.253	16.443	0	-22.6	94.5
Ti480137	2048-08-13 11:12:28.03	18 40 56.02487 -22 37 29.70912	20.8	1135.5	170.2	340.64	14.215	17.160	16.283	150.2	138.7
Pt	4079197111310161920	18 40 55.99768 -22 37 28.63789	16.3	7620.1	1141.8	-11.95	9.253	16.601	0	-22.6	94.1
Ti480138	2048-08-13 19:48:31.15	18 40 52.10073 -22 37 45.72581	10.3	1221.5	175.0	161.76	12.054	15.113	14.216	20.9	138.4
P	4079197145669922176	18 40 52.12835 -22 37 46.88592	8.0	8200.1	1175.0	-12.59	9.256	14.611	0	-22.6	89.3
Ti480139	2048-08-13 21:21:17.50	18 40 51.38603 -22 37 49.20602	24.1	993.5	175.6	161.98	14.863	17.338	16.565	357.6	138.3
P	4079197145669926528	18 40 51.40823 -22 37 50.15077	18.3	6669.8	1178.9	-12.71	9.257	16.846	0	-22.6	88.4
Ti480140	2048-08-14 03:16:29.91	18 40 48.60175 -22 38 03.47837	12.4	961.0	176.8	342.84	11.748	16.542		268.6	138.1
Pt	4079197145618073984	18 40 48.58127 -22 38 02.56018	12.9	6452.8	1187.2	-13.16	9.259	16.088	0	-22.6	85.1
Ti480141	2048-08-14 06:05:32.51	18 40 47.18328 -22 38 07.76397	12.2	662.8	176.8	163.27	13.231	15.920	15.074	226.2	137.9
Pt	4079197038226287360	18 40 47.19706 -22 38 08.39868	9.5	4450.9	1187.7	-13.37	9.260	15.483	0	-22.6	83.5
Ti480142	2048-08-15 14:14:24.61	18 40 29.70822 -22 39 08.28031	6.3	904.0	154.5	168.45	10.379	13.569	12.656	102.6	136.6
P	4079192021704414336	18 40 29.72130 -22 39 09.16605	4.3	6078.7	1039.4	-15.49	9.271	13.292	0	-22.6	65.2
Ti480143	2048-08-16 05:13:03.30	18 40 20.67033 -22 39 30.87165	10.5	1126.0	132.6	170.85	12.808	15.526	14.691	237.2	135.9
P	4079191678107000704	18 40 20.68327 -22 39 31.98332	7.8	7575.7	893.0	-16.19	9.277	15.296	0	-22.6	56.5
Ti480144	2048-08-16 20:35:53.11	18 40 11.00494 -22 39 49.95214	7.5	739.0	107.1	173.22	7.958	8.621	8.495	5.9	135.3
P	4079191819910724608	18 40 11.01130 -22 39 50.68518	5.7	4975.3	721.8	-16.62	9.283	8.420	1	-22.6	47.5
Ti480145	2048-08-17 08:48:36.52	18 40 03.17300 -22 40 01.22731	22.8	625.9	89.1	175.01	14.161	17.026	16.168	182.2	134.8
P	4079193263020367232	18 40 03.17694 -22 40 01.85084	17.2	4216.4	600.5	-16.74	9.288	16.832	0	-22.6	40.3
Ti480146	2048-08-17 09:40:58.40	18 40 02.60812 -22 40 01.42255	35.6	1103.0	88.0	175.14	14.656	17.746	16.930	169.0	134.7
P	4079193258654923648	18 40 02.61488 -22 40 02.52154	28.3	7430.4	593.3	-16.74	9.289	17.552	0	-22.6	39.8
Ti480147	2048-08-18 12:19:12.15	18 39 45.60506 -22 40 16.24714	17.7	1239.3	83.4	358.75	14.221	16.010	15.348	128.3	133.6
P	4079193434819184768	18 39 45.60310 -22 40 15.00814	11.3	8360.5	562.9	-16.25	9.302	15.784	0	-22.6	24.0
Ti480148	2048-08-19 17:42:25.64	18 39 28.01909 -22 40 11.94447	16.9	900.2	127.3	182.24	14.231	16.120	15.466	46.2	132.4
P	4079193950215311232	18 39 28.01654 -22 40 12.84396	11.4	6083.3	861.3	-14.65	9.318	15.782	0	-22.6	6.3
Ti480149	2048-08-19 21:14:50.11	18 39 26.04258 -22 40 10.66854	13.5	1011.7	133.2	182.63	13.756	15.587	14.924	353.0	132.2
P	4079193984573319040	18 39 26.03923 -22 40 11.67915	10.1	6838.3	901.3	-14.39	9.320	15.230	0	-22.6	4.2
Ti480150	2048-08-20 07:26:24.64	18 39 20.55623 -22 40 07.69266	25.1	197.7	149.2	3.68	14.650	16.794	15.941	199.6	131.8
Pg	4079217447948424064	18 39 20.55715 -22 40 07.49540	17.9	1336.9	1010.1	-13.59	9.326	16.374	0	-22.6	2.2
Ti480151	2048-08-20 17:34:37.44	18 39 15.44333 -22 40 02.32171	22.7	25.8	162.9	184.64	14.488	16.767	16.052	47.1	131.4

Table 10 continued on next page

Table 10 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pgt	4079217482270464768	18 39 15.44318 -22 40 02.34739	16.2	174.4	1103.4	-12.71	9.332	16.275	0	-22.6	8.2
Ti480152	2048-08-21 03:59:43.70	18 39 10.55962 -22 39 57.63317	7.7	1279.7	174.0	5.50	10.865	14.036	13.126	250.4	130.9
P	4079217589717320832	18 39 10.56847 -22 39 56.35939	4.8	8667.2	1178.7	-11.73	9.339	13.457	0	-22.6	14.5
Ti480153	2048-08-22 11:10:25.20	18 38 58.46934 -22 39 38.12327	18.8	422.8	184.2	6.92	14.034	16.863	16.025	141.4	129.6
Pt	4079218070753707520	18 38 58.47302 -22 39 37.70351	14.3	2870.0	1250.2	-8.58	9.359	15.945	0	-22.6	33.3
Ti480154	2048-08-23 06:29:22.34	18 38 52.88829 -22 39 28.39161	21.0	253.3	172.2	186.07	14.705	16.805	16.071	210.8	128.8
Pgt	4079218242552426496	18 38 52.88636 -22 39 28.64353	16.3	1721.8	1170.4	-6.65	9.371	15.609	0	-22.6	44.9
Ti480155 ^d	2048-08-24 11:03:28.07	18 38 47.05381 -22 39 23.19543	22.5	558.4	133.1	178.47	14.396	18.734	0	141.1	127.7
Pt	4079218208164756096	18 38 47.05489 -22 39 23.75367	16.8	3802.9	906.5	-4.19	9.389	17.037	0	-22.6	61.6
Ti480156* ^d	2048-08-24 11:20:09.27	18 38 47.01065 -22 39 23.80852	115.5	37.8	132.7	358.34	14.396	17.110	16.177	136.9	127.6
Pgt	4079218208192933376	18 38 47.01057 -22 39 23.77078	87.7	257.2	903.3	-4.17	9.389	15.408	0	-22.6	61.8
Ti480157	2048-08-26 23:17:37.84	18 38 40.61883 -22 40 02.22524	16.8	1207.7	86.0	133.12	13.564	16.343	15.370	315.1	125.2
P	4079221124425946880	18 38 40.68251 -22 40 03.05076	12.4	8254.3	587.5	-3.26	9.424	14.372	0	-22.6	95.4
Ti480158	2048-08-28 10:04:19.35	18 38 37.07003 -22 40 55.84165	23.9	274.0	140.2	136.47	14.525	16.784	16.012	152.0	123.8
Pgt	4079216657633008128	18 38 37.08366 -22 40 56.04030	18.4	1876.3	960.2	-4.82	9.442	15.238	0	-22.6	113.8
Ti480159	2048-08-29 22:55:01.70	18 38 30.45009 -22 42 03.50520	10.8	103.4	172.7	330.40	13.578	15.519	14.858	317.8	122.3
Pgt	4079219479502780544	18 38 30.44639 -22 42 03.41528	7.8	709.5	1184.7	-7.05	9.459	14.386	0	-22.7	132.6
Ti480160 ^d	2048-08-30 14:48:17.71	18 38 26.37433 -22 42 31.32292	7.6	285.9	170.1	156.17	13.092	16.556	0	78.8	121.6
Pgt	4079219097174343936	18 38 26.38268 -22 42 31.58444	7.7	1962.7	1168.6	-8.04	9.466	15.567	0	-22.7	140.6
Ti480161* ^d	2048-08-30 14:50:49.12	18 38 26.33826 -22 42 30.63126	35.8	1120.2	170.1	156.19	13.092	15.373	14.402	78.1	121.6
P	4079219101504682752	18 38 26.37095 -22 42 31.65607	26.7	7690.4	1168.4	-8.04	9.466	14.384	0	-22.7	140.6
Ti480162	2048-08-31 19:13:11.27	18 38 17.41190 -22 43 14.14976	24.1	362.5	142.0	165.11	14.877	17.119	16.370	11.3	120.4
Pgt	4079219032826203008	18 38 17.41864 -22 43 14.50013	17.3	2492.6	976.9	-9.51	9.480	16.311	0	-22.7	154.7
Ti480163	2048-09-03 08:56:35.39	18 37 54.30464 -22 43 54.83798	18.3	952.4	80.4	0.16	14.039	16.807	15.964	162.9	117.9
P	4079214050663649152	18 37 54.30483 -22 43 53.88554	14.1	5672.1	555.0	-9.71	9.514	16.023	0	-22.7	174.5
Ti480164	2048-09-03 12:01:33.55	18 37 53.18231 -22 43 53.98142	43.2	232.2	83.1	0.85	14.793	18.198	17.316	116.5	117.7
Pg	4079213672706534016	18 37 53.18256 -22 43 53.74926	37.6	1602.5	574.2	-9.59	9.516	17.400	0	-22.7	173.0
Ti480165	2048-09-03 18:43:33.44	18 37 50.79863 -22 43 52.22282	15.4	608.5	91.0	182.35	13.424	16.516	15.599	15.7	117.5
P	4079213878864982272	18 37 50.79682 -22 43 52.83086	12.1	4201.9	629.2	-9.29	9.520	15.684	0	-22.7	169.6
Ti480166	2048-09-03 22:35:31.85	18 37 49.45631 -22 43 52.36144	18.3	432.5	96.5	3.23	13.923	16.832	15.961	317.5	117.3
Pt	4079213878864993920	18 37 49.45807 -22 43 51.92967	14.3	2986.9	667.2	-9.10	9.523	15.976	0	-22.7	167.7
Ti480167	2048-09-08 12:42:24.92	18 37 31.36985 -22 42 36.53862	45.6	991.1	158.8	138.28	14.391	18.202	16.880	101.2	112.8
Pt	4079225870414896896	18 37 31.41751 -22 42 37.27845	44.4	6902.5	1107.1	1.46	9.603	15.359	0	-22.7	109.5
Ti480168*	2048-09-12 03:15:15.67	18 37 43.66568 -22 43 00.75685	43.7	1209.0	91.4	23.15	14.144	16.857	15.943	239.5	109.3
P	4079225664216600576	18 37 43.70003 -22 42 59.64523	35.4	8471.3	640.2	5.31	9.661	15.418	0	-22.7	60.2
Ti480169	2048-09-14 18:23:03.35	18 37 51.88398 -22 44 29.43350	11.5	36.6	167.5	244.17	12.714	15.748	14.828	10.0	106.8
Pgt	4079213672706526848	18 37 51.88160 -22 44 29.44945	9.1	257.5	1178.9	3.36	9.697	13.813	0	-22.7	23.2
Ti480170	2048-09-23 12:38:14.99	18 37 51.88397 -22 44 29.43365	11.7	335.4	173.8	163.41	12.714	15.748	14.828	87.6	98.2
Pgt	4079213672706526848	18 37 51.89089 -22 44 29.75505	9.3	2393.1	1240.4	6.79	9.839	14.575	0	-22.7	97.9
Ti480171* ^d	2048-09-23 20:17:48.35	18 37 53.82175 -22 44 22.59934	19.9	108.7	169.7	346.04	12.132	15.137	14.152	332.4	97.9
Pg	4079213668335561472	18 37 53.81985 -22 44 22.49387	15.3	776.0	1211.8	7.52	9.845	14.075	0	-22.7	102.0
Ti480172 ^d	2048-09-23 20:35:55.33	18 37 53.89862 -22 44 22.11866	7.1	102.3	169.5	166.14	12.132	16.842	0	327.8	97.9
Pgt	4079213672667168896	18 37 53.90039 -22 44 22.21797	5.2	730.3	1210.4	7.55	9.845	15.785	0	-22.7	102.2
Ti480173	2048-09-24 08:11:00.18	18 37 57.22668 -22 44 11.30287	7.5	1055.0	159.5	169.56	11.728	14.944	14.025	153.6	97.5
P	4079213981944144256	18 37 57.24049 -22 44 12.34044	6.1	7540.5	1139.9	8.62	9.855	14.030	0	-22.7	108.3
Ti480174	2048-09-25 03:18:31.82	18 38 03.74821 -22 43 59.16011	14.8	612.8	134.8	174.26	14.340	16.385	15.698	226.0	96.7
Pt	4079213256018724608	18 38 03.75264 -22 43 59.76986	10.9	4386.5	964.5	10.23	9.869	15.657	0	-22.7	118.4
Ti480175	2048-09-27 08:14:36.29	18 38 26.35437 -22 43 58.19642	17.0	256.4	73.0	4.21	13.343	16.191	15.348	149.9	94.6
Pgt	4079216107877015040	18 38 26.35573 -22 43 57.94071	13.1	1842.5	524.5	12.76	9.908	15.703	0	-22.7	145.2
Ti480176	2048-09-27 09:14:03.47	18 38 26.81026 -22 43 58.85077	22.8	436.7	73.3	4.38	14.325	16.807	15.957	135.0	94.6

Table 10 continued on next page

Table 10 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4079216107877015168	18 38 26.81266 -22 43 58.41532	17.5	3138.5	526.7	12.77	9.909	16.320	0	-22.7	145.7
Ti480177	2048-09-28 18:25:12.65	18 38 41.93357 -22 44 25.15091	50.5	1148.2	113.9	9.49	14.998	18.246	17.399	355.9	93.3
Pt	4079216180925814784	18 38 41.94726 -22 44 24.01846	43.1	8269.1	820.0	12.37	9.930	17.724	0	-22.7	162.1
Ti480178	2048-10-02 23:51:09.54	18 39 14.86355 -22 46 12.72761	34.0	861.2	124.9	191.32	14.543	17.247	16.416	270.4	89.3
P	4079169486079531136	18 39 14.85133 -22 46 13.57206	24.6	6239.2	905.6	5.91	9.989	15.924	0	-22.7	147.2
Ti480179	2048-10-03 13:35:02.20	18 39 17.59216 -22 46 19.46542	13.5	177.5	103.8	186.53	12.862	15.691	14.868	63.8	88.7
Pgt	4079168725801290880	18 39 17.59070 -22 46 19.64174	9.2	1286.8	753.8	5.40	9.997	14.270	0	-22.7	140.1
Ti480180	2048-10-06 20:41:40.34	18 39 34.59988 -22 45 42.62880	50.0	40.8	128.4	164.45	14.152	17.791	16.957	314.0	85.5
Pg	4079169000683148160	18 39 34.60067 -22 45 42.66811	36.4	297.5	936.7	8.37	10.053	16.846	0	-22.7	96.9
Ti480181	2048-10-08 15:07:39.56	18 39 49.79953 -22 44 50.37872	23.6	1009.2	169.9	347.59	13.956	16.667	15.842	35.8	83.8
P	4079189552124668672	18 39 49.78385 -22 44 49.39305	16.9	7383.0	1243.1	12.47	10.086	16.154	0	-22.7	72.2
Ti480182*	2048-10-08 15:52:21.43	18 39 50.12449 -22 44 49.47250	100.3	1086.7	170.1	347.68	14.435	17.477	16.664	24.6	83.8
P	4079189547806700544	18 39 50.10772 -22 44 48.41080	72.6	7950.4	1244.9	12.55	10.087	16.971	0	-22.7	71.8
Ti480183	2048-10-09 02:48:54.77	18 39 55.11961 -22 44 35.23772	23.4	1130.8	171.4	348.97	14.034	16.665	15.838	220.1	83.4
P	4079189655248027008	18 39 55.10397 -22 44 34.12786	16.7	8279.7	1255.5	13.67	10.096	16.253	0	-22.7	65.3
Ti480184	2048-10-09 16:44:33.85	18 40 02.10801 -22 44 16.79981	22.7	44.2	167.0	350.69	14.448	16.381	15.714	10.6	82.8
Pgt	4079189857040529152	18 40 02.10749 -22 44 16.75619	14.8	324.0	1224.5	15.08	10.107	16.074	0	-22.7	57.0
Ti480185	2048-10-10 11:21:41.66	18 40 12.56217 -22 43 56.86876	13.8	761.2	151.3	353.02	12.959	14.973	14.277	90.6	82.1
Pt	4079189169845785856	18 40 12.55548 -22 43 56.11317	9.3	5588.3	1110.4	16.85	10.122	14.786	0	-22.7	45.8
Ti480186	2048-10-11 05:21:53.04	18 40 23.72878 -22 43 40.37774	13.5	111.4	127.3	355.24	12.784	15.615	14.770	179.9	81.4
Pg	4079190411161228800	18 40 23.72811 -22 43 40.26676	9.8	818.6	935.4	18.33	10.136	15.520	0	-22.7	35.1
Ti480187	2048-10-12 01:41:36.74	18 40 37.37661 -22 43 28.32149	26.9	278.5	95.5	177.65	14.968	17.370	16.704	234.1	80.6
Pgt	4079178763209821440	18 40 37.37743 -22 43 28.59974	21.0	2050.3	702.5	19.63	10.151	17.349	0	-22.7	22.9
Ti480188	2048-10-12 05:28:57.70	18 40 40.01815 -22 43 27.68672	11.1	449.1	89.9	358.08	12.448	15.401	14.511	177.2	80.5
Pt	4079178694438013440	18 40 40.01706 -22 43 27.23789	8.1	3307.1	661.5	19.81	10.154	15.390	0	-22.7	20.6
Ti480189	2048-10-13 00:06:02.41	18 40 53.28245 -22 43 23.89698	31.8	541.2	71.4	180.14	14.365	17.692	16.786	257.2	79.8
P	4079178930645742464	18 40 53.28236 -22 43 24.43819	25.1	3990.7	526.1	20.46	10.167	17.716	0	-22.7	9.6
Ti480190	2048-10-13 11:37:54.28	18 41 01.64415 -22 43 25.06207	40.7	870.6	72.6	181.33	14.917	18.002	17.062	83.8	79.3
P	4079184015888862976	18 41 01.64268 -22 43 25.93247	33.8	6424.7	535.5	20.61	10.175	18.034	0	-22.7	3.0
Ti480191	2048-10-14 03:13:59.81	18 41 12.95455 -22 43 32.29150	15.0	648.2	89.0	2.82	14.039	16.265	15.550	209.2	78.7
Pt	4079183878446107648	18 41 12.95686 -22 43 31.64409	10.8	4788.0	657.3	20.50	10.185	16.292	0	-22.7	6.6
Ti480192	2048-10-14 05:57:35.70	18 41 14.92147 -22 43 32.97142	35.8	71.5	92.9	183.06	14.985	17.798	16.932	168.2	78.6
Pg	4079180927873038848	18 41 14.92119 -22 43 33.04277	26.6	527.9	686.1	20.45	10.186	17.822	0	-22.7	8.2
Ti480193	2048-10-14 06:21:50.26	18 41 15.20736 -22 43 34.37670	40.2	1118.9	93.5	3.10	14.914	18.002	17.093	162.1	78.6
P	4079180927873035520	18 41 15.21174 -22 43 33.25946	33.4	8266.3	690.5	20.44	10.187	18.026	0	-22.7	8.4
Ti480194	2048-10-14 12:14:18.93	18 41 19.41638 -22 43 36.97348	16.2	301.4	102.3	3.61	13.929	16.558	15.751	73.7	78.4
Pgt	4079180893513265664	18 41 19.41775 -22 43 36.67266	13.0	2227.6	756.0	20.28	10.190	16.573	0	-22.7	11.8
Ti480195	2048-10-15 00:12:08.59	18 41 27.84594 -22 43 44.91911	29.3	69.8	120.5	184.54	14.487	17.305	16.359	253.8	77.9
Pgt	4079181060986588032	18 41 27.84554 -22 43 44.98874	23.5	516.5	890.8	19.81	10.197	17.295	0	-22.7	18.7
Ti480196	2048-10-15 06:05:23.69	18 41 31.90457 -22 43 49.93255	9.5	291.0	128.9	4.93	12.333	15.476	14.574	165.3	77.7
Pgt	4079181030952121600	18 41 31.90638 -22 43 49.64266	7.7	2152.8	953.0	19.52	10.201	15.450	0	-22.7	22.1
Ti480197*	2048-10-15 08:23:26.60	18 41 33.48005 -22 43 50.79090	69.2	755.5	131.9	185.08	14.147	18.491	17.332	130.7	77.6
P	4079181030952110720	18 41 33.47522 -22 43 51.54349	62.5	5590.6	976.0	19.39	10.202	18.458	0	-22.7	23.4
Ti480198	2048-10-16 15:02:46.79	18 41 53.20017 -22 44 19.76649	9.2	661.2	158.6	6.20	13.310	15.330	14.634	29.7	76.4
Pt	4079181576343590528	18 41 53.20533 -22 44 19.10911	7.2	4901.0	1175.3	17.31	10.219	15.173	0	-22.7	41.0
Ti480199	2048-10-16 17:29:06.91	18 41 54.67467 -22 44 20.87605	19.5	441.4	159.3	186.21	14.910	16.903	16.177	353.0	76.3
Pt	4078430957854288896	18 41 54.67122 -22 44 21.31491	15.5	3272.3	1180.9	17.13	10.221	16.734	0	-22.7	42.3
Ti480200	2048-10-17 18:56:02.49	18 42 09.01078 -22 44 42.60104	25.7	85.5	153.5	5.38	14.258	17.388	16.461	330.3	75.3
Pt	4078430751695748352	18 42 09.01475 -22 44 42.01810	20.5	4346.3	1139.9	15.20	10.235	17.090	0	-22.7	56.7
Ti480201	2048-10-19 04:52:30.74	18 42 25.80711 -22 44 57.90934	47.9	1051.1	113.8	1.27	14.890	17.905	17.104	179.8	74.0

Table 10 continued on next page

Table 10 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	φ (deg)	M-G-T
P	4078430231948246784	18 42 25.80880 -22 44 56.85851	37.3	7816.7	847.3	13.32	10.254	17.464	0	-22.7	75.4
Ti480202	2048-10-19 22:41:13.09	18 42 33.95987 -22 44 56.78502	35.1	499.0	87.7	358.07	14.394	17.703	16.588	272.0	73.3
P	4078521083406209024	18 42 33.95865 -22 44 56.28632	27.8	3714.7	653.2	12.94	10.265	17.230	0	-22.7	85.1
Ti480203	2048-10-20 02:54:12.13	18 42 35.86159 -22 44 55.40364	12.5	187.1	82.3	357.27	12.639	15.843	14.911	208.6	73.1
P _g	4078521083429716352	18 42 35.86095 -22 44 55.21673	9.5	1393.3	613.6	12.92	10.267	15.368	0	-22.7	87.4
Ti480204	2048-10-20 17:04:57.70	18 42 42.26518 -22 44 49.35113	18.6	370.2	71.1	354.71	13.459	16.533	15.591	355.3	72.5
P	4078521152149144064	18 42 42.26271 -22 44 48.98251	13.6	2759.1	530.5	13.06	10.276	16.070	0	-22.7	95.0
Ti480205	2048-10-20 19:06:17.55	18 42 43.18298 -22 44 47.90502	13.0	138.9	70.7	354.37	12.749	15.832	14.926	324.9	72.5
P _g	4078521147813155584	18 42 43.18199 -22 44 47.76680	9.5	1035.2	527.3	13.11	10.277	15.373	0	-22.7	96.1
Ti480206	2048-10-23 13:58:23.22	18 43 17.45660 -22 43 31.43686	12.3	1144.9	147.7	349.45	13.184	15.958	15.093	39.3	69.8
P	407852187303425920	18 43 17.44145 -22 43 30.31131	9.5	8573.2	1106.6	17.51	10.325	15.813	0	-22.7	130.9
Ti480207	2048-10-25 00:03:34.80	18 43 39.81304 -22 42 36.43176	13.0	290.8	167.3	350.92	12.276	15.280	14.392	246.7	68.5
P _g	4078510496296122240	18 43 39.80972 -22 42 36.14460	8.9	2183.0	1255.7	20.93	10.350	15.330	0	-22.7	148.0
Ti480208 ^q	2048-10-26 01:29:10.27	18 43 59.14957 -22 41 57.00616	39.7	760.9	156.8	172.79	14.969	18.984	0	224.3	67.5
Pt	4078515654565333632	18 43 59.15647 -22 41 57.76108	38.8	5722.9	1179.3	23.44	10.370	19.156	0	-22.6	160.5
Ti480209* ^q	2048-10-26 01:29:20.66	18 43 59.16123 -22 41 58.02413	103.8	269.2	156.8	352.79	14.969	18.144	16.994	224.3	67.5
P _{gt}	4078515684610782464	18 43 59.15879 -22 41 57.75701	96.6	2024.9	1179.3	23.44	10.370	18.316	0	-22.6	160.5
Ti480210	2048-10-29 06:07:15.16	18 45 08.26788 -22 40 51.27737	23.0	1022.8	68.6	179.14	14.466	16.913	16.166	151.9	64.6
P	4078490056582662400	18 45 08.26899 -22 40 52.30001	18.8	7731.2	517.9	27.89	10.423	17.275	0	-22.6	161.8
Ti480211	2048-10-29 20:59:15.96	18 45 22.54317 -22 40 51.88490	14.4	670.7	78.9	0.21	12.833	15.968	15.053	288.4	64.0
Pt	4078489369387880064	18 45 22.54335 -22 40 51.21425	11.9	5074.0	596.7	27.87	10.432	16.328	0	-22.6	154.4
Ti480212*	2048-10-30 00:28:15.34	18 45 25.87898 -22 40 50.34365	10.9	1135.7	83.2	180.44	11.042	14.189	13.264	236.0	63.9
P	4078489678626454784	18 45 25.87834 -22 40 51.47931	7.7	8593.9	629.1	27.82	10.434	14.547	0	-22.6	152.7
Ti480213	2048-10-30 22:29:54.54	18 45 46.69615 -22 40 56.47391	23.3	580.2	115.3	181.71	13.748	16.401	15.548	264.8	63.1
P	4078488025057069312	18 45 46.69490 -22 40 57.05382	16.3	4395.4	872.9	27.09	10.446	16.730	0	-22.6	141.5
Ti480214	2048-10-30 23:47:35.95	18 45 47.89677 -22 40 57.86089	71.4	300.8	117.1	1.78	14.859	18.469	17.585	245.3	63.0
P _g	4078488025027393920	18 45 47.89745 -22 40 57.56026	55.5	2278.8	887.2	27.03	10.446	18.796	0	-22.6	140.9
Ti480215	2048-10-31 00:45:50.00	18 45 48.79842 -22 40 57.29328	34.7	657.6	118.5	181.82	14.439	17.250	16.333	230.7	63.0
P	4078488029331639936	18 45 48.79691 -22 40 57.95059	24.5	4982.8	897.8	26.98	10.447	17.575	0	-22.6	140.4
Ti480216	2048-10-31 05:14:02.24	18 45 52.91919 -22 40 59.04111	52.9	818.3	124.8	182.01	14.967	17.881	17.008	163.5	62.8
P	4078487853225087744	18 45 52.91711 -22 40 59.85893	35.0	6201.7	945.1	26.74	10.449	18.196	0	-22.6	138.1
Ti480217	2048-10-31 07:49:49.95	18 45 55.29330 -22 41 00.79227	42.5	251.6	128.2	182.11	14.619	17.421	16.590	124.4	62.7
P _g	4078487788840975488	18 45 55.29263 -22 41 01.04367	29.1	1906.8	971.4	26.59	10.451	17.730	0	-22.6	136.8
Ti480218	2048-10-31 14:13:43.94	18 46 01.08480 -22 41 04.47139	8.4	309.2	136.0	2.34	10.588	13.648	12.740	28.2	62.5
P _{gt}	4078487135978305152	18 46 01.08571 -22 41 04.16243	5.7	2344.4	1031.1	26.20	10.454	13.941	0	-22.6	133.5
Ti480219	2048-11-01 03:18:01.23	18 46 12.62549 -22 41 11.00991	22.3	102.7	148.5	182.61	14.569	16.673	15.994	191.7	62.0
P _g	4078487273444288384	18 46 12.62515 -22 41 11.11248	17.5	779.0	1126.5	25.30	10.460	16.928	0	-22.6	126.6
Ti480220	2048-11-01 14:30:15.61	18 46 22.17123 -22 41 16.56325	15.7	655.0	154.7	182.65	13.904	15.840	15.194	23.2	61.5
P	4078475591133196416	18 46 22.16905 -22 41 17.21752	10.9	4971.7	1174.3	24.44	10.466	16.058	0	-22.6	120.7
Ti480221	2048-11-02 12:39:24.29	18 46 40.04431 -22 41 27.36882	12.9	360.8	153.5	182.06	13.545	15.825	15.099	50.1	60.7
Pt	4078480431521582848	18 46 40.04337 -22 41 27.72937	9.9	2741.4	1166.5	22.72	10.477	15.963	0	-22.6	108.6
Ti480222 ^q	2048-11-03 02:21:44.88	18 46 50.46349 -22 41 31.71257	12.7	236.6	144.0	181.22	13.435	16.661	0	203.9	60.1
P _{gt}	4078480294082626432	18 46 50.46313 -22 41 31.94912	9.8	1798.9	1095.1	21.75	10.483	16.752	0	-22.6	101.0
Ti480223* ^q	2048-11-03 02:28:57.83	18 46 50.55314 -22 41 31.60636	130.7	369.2	143.9	181.22	13.435	16.197	15.051	202.1	60.1
Pt	4078480298386451200	18 46 50.55257 -22 41 31.97551	102.5	2807.3	1094.2	21.74	10.483	16.288	0	-22.6	100.9
Ti480224	2048-11-03 22:35:29.62	18 47 05.09019 -22 41 32.65764	18.7	584.7	120.1	179.38	14.354	16.352	15.639	259.7	59.3
P	4078477785821723904	18 47 05.09064 -22 41 33.24230	14.6	4449.8	914.6	20.62	10.493	16.386	0	-22.6	89.5
Ti480225	2048-11-03 22:58:27.27	18 47 05.36121 -22 41 34.37300	23.6	1172.6	119.6	359.34	14.539	16.812	16.047	254.0	59.3
P	4078477785825390592	18 47 05.36023 -22 41 33.20050	18.3	8924.1	910.6	20.61	10.493	16.845	0	-22.6	89.3
Ti480226	2048-11-05 22:42:01.95	18 47 38.06089 -22 41 05.54166	7.5	413.3	68.6	173.77	12.006	14.875	14.015	256.3	57.5

Table 10 continued on next page

Table 10 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	4078478507376246528	18 47 38.06413 -22 41 05.95253	6.0	3153.3	524.2	20.21	10.519	14.886	0	-22.6	60.9
Ti480227	2048-11-06 00:29:57.49	18 47 39.29293 -22 41 03.54410	17.5	520.9	69.0	173.59	14.184	16.519	15.790	229.2	57.4
Pt	4078478507411477632	18 47 39.29714 -22 41 04.06170	14.9	3974.3	527.1	20.26	10.520	16.533	0	-22.6	59.8
Ti480228*	2048-11-06 11:36:48.29	18 47 46.97958 -22 40 50.27813	66.9	807.7	76.5	172.54	14.999	17.157	16.320	62.1	57.0
Pt	4078290907531636608	18 47 46.98715 -22 40 51.07898	54.1	6166.7	584.7	20.68	10.527	17.194	0	-22.6	53.0
Ti480229	2048-11-06 22:10:34.50	18 47 54.45899 -22 40 37.55874	5.3	773.9	89.5	351.75	11.992	13.864	13.215	263.2	56.5
P	4078666150228355072	18 47 54.45097 -22 40 36.79287	4.2	5912.1	684.4	21.24	10.534	13.929	0	-22.6	46.5
Ti480230	2048-11-08 12:14:59.15	18 48 23.34230 -22 39 32.71721	23.3	349.7	142.4	170.61	13.321	16.917	15.956	50.7	55.1
Pt	4078665561794212608	18 48 23.34642 -22 39 33.06222	18.7	2677.8	1090.6	24.18	10.558	17.123	0	-22.6	23.1
Ti480231	2048-11-08 14:10:36.39	18 48 24.90095 -22 39 28.46395	8.8	1027.2	144.4	170.62	7.737	12.464	11.171	21.7	55.0
P	4078665566112661760	18 48 24.91311 -22 39 29.47605	6.8	7866.6	1106.8	24.36	10.559	12.678	0	-22.6	21.9
Ti480232	2048-11-11 08:07:19.16	18 49 25.84591 -22 37 26.42499	5.6	87.7	147.6	173.30	11.361	14.257	13.381	110.1	52.5
Pg	4078657972610235904	18 49 25.84665 -22 37 26.51209	4.5	674.4	1134.8	30.71	10.604	14.723	0	-22.6	18.1
Ti480233	2048-11-12 12:48:43.86	18 49 56.56932 -22 36 43.63988	18.8	147.1	110.2	175.21	14.141	16.806	15.975	38.7	51.4
Pg	4078658621124382464	18 49 56.57021 -22 36 43.78645	17.3	1133.0	848.1	32.88	10.622	17.346	0	-22.6	34.7
Ti480234	2048-11-13 13:37:21.38	18 50 24.55921 -22 36 16.88142	17.4	249.1	75.1	176.89	13.461	16.653	15.729	25.6	50.4
Pg	4078679138210282240	18 50 24.56018 -22 36 17.13019	15.0	1921.9	578.6	34.04	10.636	17.230	0	-22.5	48.7
Ti480235	2048-11-14 04:38:43.77	18 50 41.86058 -22 36 06.87770	8.3	715.4	66.4	357.85	12.924	15.075	14.352	159.7	49.9
Pt	4078678794612883072	18 50 41.85865 -22 36 06.16283	6.8	5522.7	512.4	34.33	10.644	15.661	0	-22.5	57.1
Ti480236	2048-11-14 06:36:32.78	18 50 44.12901 -22 36 05.47475	11.6	458.0	66.6	357.97	12.632	15.782	14.874	130.2	49.8
Pt	4078678794612881152	18 50 44.12784 -22 36 05.01702	9.6	3536.2	513.7	34.34	10.645	16.369	0	-22.5	58.2
Ti480237	2048-11-15 12:52:52.93	18 51 18.95386 -22 35 54.44183	5.1	599.5	98.3	179.58	10.794	13.738	12.874	35.0	48.7
P	4078632305884825088	18 51 18.95418 -22 35 55.04129	4.3	4634.7	759.3	33.82	10.660	14.309	0	-22.5	74.6
Ti480238	2048-11-16 02:24:47.92	18 51 34.20280 -22 35 55.50880	6.3	1034.0	118.0	0.09	12.001	14.565	13.773	191.6	48.2
P	4078632473361360128	18 51 34.20292 -22 35 54.47481	5.3	7998.6	912.2	33.18	10.666	15.114	0	-22.5	81.8
Ti480239	2048-11-16 03:55:37.82	18 51 35.88869 -22 35 54.98496	48.6	463.1	120.0	0.14	14.884	18.309	17.525	168.8	48.1
P	4078632477664035200	18 51 35.88877 -22 35 54.52191	43.0	3582.3	928.3	33.09	10.667	18.856	0	-22.5	82.6
Ti480240	2048-11-16 06:39:32.26	18 51 38.91944 -22 35 54.32605	34.0	327.6	123.7	180.22	14.777	17.892	17.136	127.7	48.0
Pg	4078629557086235392	18 51 38.91935 -22 35 54.65365	29.1	2534.6	956.7	32.93	10.668	18.434	0	-22.5	84.1
Ti480241	2048-11-16 12:08:21.44	18 51 44.95143 -22 35 55.46716	13.9	389.5	130.5	0.35	14.379	16.218	15.563	45.3	47.8
P	4078635363901207552	18 51 44.95161 -22 35 55.07770	11.1	3013.9	1009.9	32.58	10.670	16.748	0	-22.5	87.0
Ti480242	2048-11-16 14:32:06.67	18 51 47.56738 -22 35 56.10204	12.6	782.1	133.3	0.41	14.227	15.968	15.334	9.3	47.7
P	4078635359579873536	18 51 47.56779 -22 35 55.31992	10.0	6053.3	1031.4	32.42	10.671	16.493	0	-22.5	88.2
Ti480243	2048-11-16 22:40:10.62	18 51 56.34756 -22 35 57.07225	10.4	744.3	141.5	0.53	13.516	15.598	14.894	247.0	47.4
P	4078635226462217472	18 51 56.34805 -22 35 56.32800	8.3	5762.0	1095.5	31.84	10.674	16.103	0	-22.5	92.5
Ti480244	2048-11-17 06:46:36.69	18 52 04.93293 -22 35 56.60048	12.6	884.2	147.7	180.57	12.795	15.742	14.866	125.1	47.1
P	4078634814145755392	18 52 04.93229 -22 35 57.48459	9.6	6846.9	1143.8	31.22	10.677	16.226	0	-22.5	96.7
Ti480245	2048-11-17 22:02:08.02	18 52 20.60703 -22 36 00.50826	15.7	1061.0	153.2	0.41	13.822	16.208	15.473	255.6	46.5
P	4078622925675811968	18 52 20.60757 -22 35 59.44729	12.6	8220.8	1187.3	29.99	10.683	16.648	0	-22.5	104.7
Ti480246	2048-11-18 05:52:46.02	18 52 28.41533 -22 35 59.36786	8.1	666.0	152.8	180.20	12.191	15.054	14.210	137.7	46.2
P	4078624364467154688	18 52 28.41517 -22 36 00.03390	6.8	5162.1	1184.2	29.35	10.686	15.471	0	-22.5	108.7
Ti490001	2049-02-27 11:45:09.51	19 40 02.00594 -21 16 46.45177	26.1	154.8	97.3	346.02	14.960	17.271	16.499	321.7	45.4
Pg	6868087189496212864	19 40 02.00326 -21 16 46.30160	20.7	1199.1	754.1	26.37	10.683	17.571	0	-21.2	16.1
Ti490002	2049-02-28 07:00:57.82	19 40 18.61577 -21 15 46.53125	14.6	1137.6	126.5	165.75	14.384	16.093	15.503	32.0	46.2
P	6868088563885553152	19 40 18.63580 -21 15 47.63384	12.8	8807.5	980.2	27.25	10.675	16.429	0	-21.1	5.2

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

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

Table 11. Geocentric Titan Occultation Predictions 2023 to 2050 for $K \leq 15$ (part 11 of 11)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Ti490003	2049-02-28 23:49:47.25	19 40 33.65205 -21 14 53.50958	4.9	1054.7	146.7	165.95	9.726	12.724	11.865	139.2	46.8
P	6868077259531606784	19 40 33.67041 -21 14 54.53080	3.9	8160.3	1135.4	28.22	10.668	13.098	0	-21.1	6.6
Ti490004*	2049-03-02 10:15:15.49	19 41 06.37233 -21 13 04.25442	8.5	946.6	161.8	167.33	10.284	11.786	11.260	341.5	48.1
P	6868100138821398912	19 41 06.38723 -21 13 05.17646	6.9	7314.4	1250.1	30.49	10.654	12.244	0	-21.1	27.0
Ti490005	2049-03-03 19:41:47.47	19 41 40.83967 -21 11 26.71217	43.9	909.3	138.4	349.42	13.559	17.918	16.788	198.6	49.4
P	6868098970590370432	19 41 40.82773 -21 11 25.81835	34.6	7017.3	1067.8	32.50	10.641	18.445	0	-21.1	47.0
Ti490006	2049-03-03 19:55:55.52	19 41 41.09125 -21 11 26.09193	16.0	945.4	138.1	349.43	13.416	16.301	15.460	195.1	49.4
P	6868098970589468032	19 41 41.07885 -21 11 25.16259	12.5	7295.7	1065.6	32.52	10.641	16.828	0	-21.1	47.2
Ti490007	2049-03-12 09:55:38.76	19 45 03.73177 -21 06 05.78790	5.0	965.8	108.0	350.81	11.711	13.757	13.095	337.6	57.2
P	6868141477881901824	19 45 03.72075 -21 06 04.83451	4.5	7365.5	824.3	21.22	10.515	13.821	0	-21.0	157.3
Ti490008	2049-03-18 17:14:18.38	19 46 49.23544 -20 59 48.83406	5.0	1099.8	163.3	166.65	11.327	13.667	12.936	222.1	63.0
P	6865166366919532928	19 46 49.25358 -20 59 49.90412	4.3	8320.3	1235.4	24.64	10.431	13.893	0	-20.9	126.3
Ti490009	2049-03-18 22:28:01.20	19 46 53.52755 -20 59 34.76574	14.8	1129.3	160.8	167.06	13.714	16.274	15.494	143.5	63.2
P	6865166405575798016	19 46 53.54561 -20 59 35.86638	12.3	8541.7	1216.0	24.96	10.429	16.515	0	-20.9	123.6
Ti490010	2049-03-25 10:06:34.27	19 49 09.04058 -20 55 43.65828	11.6	854.0	152.3	356.95	14.206	15.860	15.244	323.0	69.2
Pt	6865488047087767040	19 49 09.03734 -20 55 42.80546	9.5	6398.4	1140.4	21.47	10.330	15.938	0	-20.8	36.7
Ti490011	2049-03-27 17:22:24.08	19 49 43.90660 -20 55 05.24713	10.1	1130.2	134.4	173.12	14.289	15.833	15.289	211.9	71.3
P	6865484645473580800	19 49 43.91626 -20 55 06.36915	6.0	8431.9	1003.1	15.60	10.287	15.563	0	-20.8	5.4
Ti490012	2049-04-05 08:19:03.98	19 51 28.24588 -20 48 33.56289	6.6	278.8	126.1	349.84	12.455	14.734	14.035	339.7	79.4
Pgt	6865504539761879424	19 51 28.24237 -20 48 33.28848	4.0	2053.8	928.1	19.33	10.158	14.698	0	-20.7	114.2
Ti490013	2049-05-13 22:40:43.82	19 54 53.07051 -20 44 35.50144	13.5	1095.9	163.4	153.73	14.995	16.388	15.815	87.1	116.2
P	6865398058932686720	19 54 53.10508 -20 44 36.48417	9.1	7567.8	1128.3	-6.20	9.521	15.116	0	-20.6	109.1
Ti490014	2049-05-17 02:44:48.16	19 54 28.90942 -20 45 45.50537	13.9	226.5	66.7	356.63	13.888	16.436	15.646	22.9	119.4
Pg	6865399570761211776	19 54 28.90847 -20 45 45.27927	8.1	1555.5	458.2	-10.27	9.470	15.712	0	-20.6	65.4
Ti490015	2049-05-29 16:36:44.55	19 53 17.14898 -20 50 08.29113	12.5	759.3	170.7	160.67	14.170	15.883	15.338	162.2	131.7
P	6865404209325990528	19 53 17.16691 -20 50 09.00760	7.6	5123.7	1152.1	-12.43	9.304	15.366	0	-20.7	110.1
Ti490016	2049-06-08 11:56:37.32	19 51 12.12995 -20 53 53.66377	52.7	332.8	122.3	165.45	14.849	18.562	17.348	222.0	141.6
Pgt	6865494949096564864	19 51 12.13592 -20 53 53.98588	42.2	2220.5	815.7	-9.06	9.200	17.702	0	-20.8	131.0
Ti490017	2049-06-12 15:30:12.34	19 50 36.72157 -20 57 29.49243	26.0	622.8	158.7	156.21	14.908	17.643	17.063	164.4	145.7
P	6865472550845492736	19 50 36.73951 -20 57 30.06235	13.8	4136.4	1053.3	-13.17	9.157	17.189	0	-20.8	77.1
Ti490018	2049-06-15 04:04:01.82	19 50 01.03807 -21 00 22.19515	16.1	328.6	160.6	345.37	13.321	16.688	15.633	333.3	148.3
Pgt	6865471485693674112	19 50 01.03215 -21 00 21.87723	9.2	2174.9	1063.4	-18.89	9.126	16.626	0	-20.9	40.7
Ti490019	2049-06-20 11:27:50.07	19 48 18.83080 -21 03 43.44524	9.8	1297.0	165.8	355.77	13.378	15.442	14.802	216.7	153.8
P	6865479594592928128	19 48 18.82397 -21 03 42.15178	7.0	8543.9	1092.6	-19.43	9.083	15.410	0	-20.9	39.0
Ti490020	2049-06-21 15:48:00.29	19 47 58.49012 -21 04 04.89555	4.6	1064.0	189.3	355.25	12.331	13.818	13.309	150.4	155.0
Pt	6865151390369948160	19 47 58.48384 -21 04 03.83523	3.5	7004.8	1246.2	-17.39	9.078	13.666	0	-20.9	55.6
Ti490021	2049-06-27 21:25:10.08	19 46 38.15566 -21 08 39.60791	22.8	1313.8	136.1	158.39	14.464	17.187	16.328	59.6	161.2
P	6865147507719647104	19 46 38.19025 -21 08 40.82937	19.7	8618.4	892.0	-15.45	9.045	16.907	0	-21.0	135.8
Ti490022*	2049-07-10 07:49:46.00	19 42 37.73107 -21 18 27.07561	58.3	700.1	124.5	347.96	14.019	17.342	16.225	250.2	174.0
Pt	6868052275704516224	19 42 37.72062 -21 18 26.39088	44.4	4570.4	812.3	-15.26	9.001	17.048	0	-21.2	71.2
Ti490023	2049-07-12 08:16:43.66	19 42 10.39040 -21 20 14.04474	5.7	662.8	76.4	160.94	11.918	14.167	13.471	241.4	176.1
Pt	6868046404486339328	19 42 10.40589 -21 20 14.67119	4.2	4325.8	498.0	-15.06	8.999	13.859	0	-21.2	42.6
Ti490024	2049-07-16 20:37:04.09	19 40 54.21049 -21 25 59.14375	7.4	134.2	166.2	166.43	12.890	14.726	14.099	51.5	179.3
Pgt	6868070902979887616	19 40 54.21275 -21 25 59.27423	6.1	874.8	1083.6	-23.15	8.986	14.885	0	-21.3	26.2
Ti490025	2049-07-21 06:12:09.79	19 39 11.90826 -21 29 32.83211	6.3	60.9	128.4	355.20	12.825	15.224	14.472	263.0	174.7
Pgt	6868077633190653312	19 39 11.90790 -21 29 32.77143	5.4	396.8	837.6	-23.99	8.986	15.421	1	-21.4	88.9
Ti490026	2049-07-23 06:34:25.32	19 38 29.41596 -21 30 17.02593	13.7	344.9	189.7	175.66	14.745	16.728	16.125	255.3	172.6

Table 11 continued on next page

Table 11 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10^3 km)	v_{sky} (km/s)	Dist (au)	G_*	DUP	ϕ (deg)	M-G-T
Pgt	6772004476117485824	19 38 29.41783 -21 30 17.36984	12.4	2250.1	1237.6	-20.30	8.995	16.744	0	-21.4	114.9
Ti490027	2049-07-25 19:25:14.35	19 37 47.06756 -21 31 22.27911	11.0	504.0	143.1	170.13	14.214	15.952	15.279	59.9	170.0
Pt	6772191216998319232	19 37 47.07375 -21 31 22.77567	10.8	3292.7	934.5	-15.45	9.008	15.672	0	-21.4	146.0
Ti490028	2049-07-28 04:54:46.40	19 37 15.18686 -21 33 17.78654	14.3	57.1	76.3	161.21	14.976	16.523	15.974	275.0	167.6
Pgt	6772185723737300352	19 37 15.18818 -21 33 17.84063	11.5	373.7	498.6	-14.43	9.017	16.168	0	-21.4	173.7
Ti490029	2049-07-30 21:40:25.11	19 36 36.49877 -21 36 31.07551	5.4	172.3	175.4	341.59	10.414	12.952	12.193	20.8	164.9
Pgt	6772163389907402880	19 36 36.49492 -21 36 30.90998	3.9	1127.7	1147.3	-18.39	9.023	12.860	0	-21.5	152.8
Ti490030	2049-08-03 21:01:15.66	19 35 16.89542 -21 40 46.33650	10.6	1326.7	83.3	352.07	13.687	15.755	15.108	26.3	160.8
P	6772168750026122240	19 35 16.88228 -21 40 45.02252	8.8	8691.1	546.1	-23.78	9.032	15.943	0	-21.6	104.7
Ti490031	2049-08-04 01:50:18.60	19 35 12.39593 -21 40 52.62200	10.3	857.9	77.9	172.51	13.579	15.689	15.006	313.9	160.6
P	6772168715666387072	19 35 12.40395 -21 40 53.47262	8.1	5620.9	511.1	-23.79	9.033	15.878	0	-21.6	102.2
Ti490032	2049-08-04 22:06:05.93	19 34 53.63117 -21 41 25.12345	23.6	1298.4	79.3	354.21	14.393	17.293	16.393	9.0	159.7
P	6772171395725999488	19 34 53.62177 -21 41 23.83166	20.5	8511.2	520.2	-23.46	9.038	17.466	0	-21.6	91.5
Ti490033	2049-08-05 16:11:52.39	19 34 37.20456 -21 41 44.78275	3.7	305.7	106.9	355.44	11.827	13.434	12.889	96.7	158.9
Pgt	6772170090055959424	19 34 37.20281 -21 41 44.47803	3.1	2004.9	701.7	-22.72	9.043	13.572	0	-21.6	81.9
Ti490034	2049-08-07 22:16:26.09	19 33 52.93486 -21 42 21.17853	11.0	1217.2	185.2	176.93	14.315	15.842	15.315	3.2	156.6
P	6772123906270360320	19 33 52.93953 -21 42 22.39395	9.2	7999.7	1217.3	-18.60	9.062	15.763	0	-21.6	51.7
Ti490035	2049-08-13 19:49:52.57	19 32 39.54239 -21 45 27.35648	7.5	455.3	102.5	157.78	13.316	15.133	14.517	33.7	150.6
Pt	6772120234077030016	19 32 39.55474 -21 45 27.77793	6.4	3009.2	677.1	-12.05	9.114	14.583	0	-21.6	35.9
Ti490036	2049-08-17 11:01:50.67	19 31 51.85791 -21 49 24.60071	15.5	1303.0	168.4	345.35	14.585	16.532	15.934	161.9	146.9
P	6772107241796794624	19 31 51.83423 -21 49 23.34011	12.6	8633.3	1116.3	-18.03	9.136	16.419	0	-21.7	88.7
Ti490037	2049-08-19 14:13:43.76	19 31 14.16108 -21 51 06.04090	6.0	285.4	88.9	172.10	12.918	14.560	13.985	111.7	144.7
Pgt	6772108586125281536	19 31 14.16389 -21 51 06.32355	5.1	1894.0	590.6	-19.94	9.151	14.557	0	-21.7	117.0
Ti490038	2049-08-21 22:45:28.55	19 30 31.71958 -21 51 58.02480	4.0	539.1	121.9	177.44	10.876	13.286	12.562	341.3	142.3
Pt	6772853741470177408	19 30 31.72131 -21 51 58.56331	3.1	3587.1	811.9	-18.12	9.175	13.179	0	-21.8	146.3
Ti490039	2049-08-25 20:07:58.66	19 29 40.90337 -21 52 18.36121	23.1	221.1	167.6	355.60	14.989	17.399	16.689	16.6	138.4
Pgt	6772855807355664384	19 29 40.90215 -21 52 18.14076	19.5	1479.5	1121.0	-9.60	9.226	16.603	0	-21.8	166.6
Ti490040	2049-08-27 17:14:04.72	19 29 27.24326 -21 52 50.62569	7.6	942.8	91.9	161.88	13.183	15.282	14.622	58.2	136.5
Pt	6772856460190711936	19 29 27.26432 -21 52 51.52178	6.3	6325.6	616.0	-6.80	9.251	14.110	0	-21.8	144.5
Ti490041	2049-09-03 08:54:43.80	19 28 34.69305 -21 58 00.16981	11.5	750.0	133.3	167.90	14.294	16.048	15.458	176.2	129.8
P	6772490735137926016	19 28 34.70436 -21 58 00.90309	8.6	5068.5	901.9	-13.73	9.319	15.639	0	-21.9	61.4
Ti490042	2049-09-03 19:06:04.50	19 28 29.37474 -21 58 14.63315	10.4	870.9	115.9	169.77	14.122	15.937	15.355	23.0	129.4
P	6772490632058723840	19 28 29.38586 -21 58 15.49024	8.6	5889.1	156.7	-14.03	9.323	15.552	0	-21.9	55.8
Ti490043	2049-09-09 13:05:25.31	19 27 27.87780 -21 58 36.25848	37.3	10.8	183.5	186.70	14.175	18.076	16.827	107.2	123.6
Pgt	6772487883280341248	19 27 27.87771 -21 58 36.26917	31.3	73.5	1252.6	-6.30	9.406	16.823	0	-21.9	26.5
Ti490044*	2049-09-13 18:29:40.67	19 27 20.30786 -21 58 59.32335	38.6	696.5	71.1	73.36	13.165	16.566	15.350	21.9	119.5
Pt	6772534406364856064	19 27 20.35584 -21 58 59.12385	33.9	4785.2	488.3	2.13	9.473	14.133	0	-21.9	88.3
Ti490045	2049-10-03 16:03:29.09	19 27 24.18867 -22 02 16.90218	11.9	16.0	166.1	28.44	14.218	15.799	15.248	38.9	100.0
Pg	6772486989925881216	19 27 24.18922 -22 02 16.88813	9.5	113.3	1178.0	3.80	9.774	13.996	0	-21.9	19.7
Ti490046	2049-10-26 03:35:57.82	19 30 13.41121 -21 56 42.02985	9.9	895.0	156.7	162.40	13.249	15.540	14.844	204.3	78.4
Pt	6772851649827228416	19 30 13.43066 -21 56 42.88291	8.4	6583.2	1153.6	14.04	10.142	15.156	0	-21.8	84.8
Ti490047	2049-10-29 19:32:24.52	19 31 08.42728 -21 53 53.66881	19.9	14.7	111.3	172.14	14.708	16.803	16.114	321.8	74.9
Pg	6772107860270154624	19 31 08.42743 -21 53 53.68341	16.7	109.1	824.2	22.08	10.211	16.911	0	-21.8	35.5
Ti490048	2049-10-30 02:06:42.30	19 31 13.49149 -21 53 43.74508	8.5	573.5	100.3	172.77	12.927	15.132	14.429	223.0	74.7
Pt	6772108173808147200	19 31 13.49668 -21 53 44.31406	7.0	4249.3	742.7	22.47	10.216	15.259	0	-21.8	31.7
Ti490049	2049-10-30 22:22:54.50	19 31 29.62892 -21 53 18.67238	10.7	1170.9	70.6	174.74	14.178	15.812	15.257	278.2	73.9
P	6772105115791690880	19 31 29.63663 -21 53 19.83836	9.0	8687.5	523.3	23.35	10.230	15.980	0	-21.8	20.2
Ti490050	2049-11-01 23:51:23.85	19 32 09.97337 -21 52 46.52634	9.7	662.5	108.5	178.25	13.065	15.258	14.570	254.2	72.0
P	6772094326833821568	19 32 09.97483 -21 52 47.18851	7.7	4930.2	807.4	22.98	10.261	15.409	0	-21.8	10.1
Ti490051	2049-11-04 12:18:43.83	19 32 54.27763 -21 52 33.47557	30.5	419.5	158.7	357.99	14.747	17.622	16.729	65.1	69.6

Table 11 continued on next page

Table 11 (continued)

Event ID	C/A Epoch	ICRS Star Coord at Epoch	$\sigma(\alpha_*)$ (km)	C/A (mas)	C/A _P (″)	PA (deg)	K	G	RP	E λ (deg)	S-G-T
Event type	Source ID	Geocentric Object Position	$\sigma(\delta_*)$ (km)	C/A (km)	C/A _P (10 ³ km)	v_{sky} (km/s)	Dist (au)	G _*	DUP	ϕ (deg)	M-G-T
Pt	6772115595512280960	19 32 54.27658 -21 52 33.05629	27.9	3132.2	1184.7	18.94	10.294	17.562	0	-21.8	44.8
Ti490052	2049-11-05 07:38:20.55	19 33 06.46811 -21 52 23.83195	29.0	979.3	146.9	176.29	14.604	17.470	16.584	134.4	68.9
P	6772115453774083584	19 33 06.47266 -21 52 24.80923	25.2	7318.8	1098.6	17.60	10.304	17.332	0	-21.8	56.0
Ti490053	2049-11-11 20:10:36.50	19 34 40.97637 -21 47 39.74646	10.7	1048.4	163.9	345.98	14.208	15.916	15.355	300.3	62.7
P	6772166173045752704	19 34 40.95813 -21 47 38.72927	9.1	7911.5	1236.8	22.98	10.404	16.067	0	-21.7	143.4
Ti490054	2049-11-11 23:42:48.61	19 34 43.69033 -21 47 29.87731	17.8	555.5	165.0	346.21	14.685	16.833	16.172	247.1	62.6
P	6772166001247058304	19 34 43.68082 -21 47 29.33784	15.7	4192.7	1245.5	23.33	10.407	17.000	0	-21.7	145.2
Ti490055	2049-11-17 12:00:41.40	19 36 49.93557 -21 43 05.31292	19.1	110.3	87.0	175.71	14.621	16.247	15.729	57.8	57.5
P _g	6772158815765614976	19 36 49.93616 -21 43 05.42294	13.8	839.7	661.5	30.35	10.494	16.700	0	-21.6	148.2
Ti490056	2049-11-18 04:59:03.23	19 37 07.19081 -21 42 48.59681	36.6	164.3	113.9	176.30	14.484	17.593	16.637	162.5	56.9
P _g	6771994644934989568	19 37 07.19157 -21 42 48.76076	28.4	1251.4	867.4	29.65	10.502	18.021	0	-21.6	140.0
Ti490057	2049-11-20 07:44:01.69	19 37 55.18148 -21 42 05.72344	7.7	762.9	155.9	175.82	12.933	14.703	14.109	119.4	54.9
P	6771992377190002944	19 37 55.18546 -21 42 06.48429	5.9	5823.7	1190.2	26.07	10.526	14.990	0	-21.6	114.7
Ti490058	2049-11-21 01:23:24.50	19 38 10.30250 -21 41 48.34876	5.2	878.4	148.9	174.72	12.654	13.958	13.496	213.9	54.2
P	6771992003532417920	19 38 10.30829 -21 41 49.22347	4.4	6710.9	1137.8	24.77	10.533	14.190	0	-21.6	105.6
Ti490059	2049-11-21 20:45:31.18	19 38 26.04288 -21 41 26.63065	21.5	785.9	129.1	353.02	14.958	16.928	16.273	282.6	53.5
P	6771997672889228928	19 38 26.03603 -21 41 25.85054	17.0	6009.2	988.0	23.62	10.542	17.109	0	-21.6	95.4
Ti490060	2049-11-26 21:00:16.17	19 40 00.54406 -21 36 41.79980	14.0	35.1	143.0	165.72	14.277	16.225	15.669	274.4	48.8
P _{gt}	6868060766856549504	19 40 00.54468 -21 36 41.83377	13.3	269.7	1100.6	27.13	10.607	16.555	0	-21.5	27.2
Ti490061	2049-11-30 03:02:03.46	19 41 19.04173 -21 32 41.39305	18.5	517.7	131.1	349.85	14.663	16.620	15.952	181.1	45.8
Pt	6868019466451454976	19 41 19.03519 -21 32 40.88341	15.4	4001.3	1012.8	34.24	10.656	17.204	0	-21.4	20.2

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

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