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MPEC 2013-U15 : DAILY ORBIT UPDATE (2013 OCT. 20 UT)

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M.P.E.C. 2013-U15

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DAILY ORBIT UPDATE (2013 OCT. 20 UT)

Update to [MPEC 2013-U14](#)

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New multiple-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp	C
J950000	17.1	0.15	K13B4	333.687	211.986	348.857	23.532	0.77732	2.15787	5	X
J95U73B	18.5	0.15	K13B4	3.431	259.866	133.077	1.787	0.18533	2.34186	4	S
J99S10G	20.5	0.15	K13B4	338.384	103.284	13.518	23.558	0.61341	1.45357	2	X
J99T340	16.8	0.15	K13B4	3.676	211.368	180.190	12.021	0.34695	2.78388	4	X
J99T67Q	17.1	0.15	K13B4	47.425	287.458	57.107	5.062	0.21145	2.78642	5	X
J99TN3K	17.4	0.15	K13B4	86.311	70.941	255.980	6.156	0.30930	2.24968	5	X
J99TR0S	15.5	0.15	K13B4	17.584	34.168	359.194	11.762	0.08764	2.75176	5	X
J99U11S	17.8	0.15	K13B4	62.344	264.570	54.522	2.779	0.24482	2.30083	5	X
J99U27Q	16.8	0.15	K13B4	346.836	49.023	6.794	7.597	0.22248	2.76593	5	X
J99V14E	15.9	0.15	K13B4	14.657	137.408	242.010	22.198	0.24801	2.31267	4	X
J99V40B	18.1	0.15	K13B4	333.469	38.717	46.069	6.262	0.12021	2.28354	6	X
J99V46D	17.9	0.15	K13B4	345.198	55.017	16.297	19.370	0.22468	1.98147	4	X
K00J08Y	17.0	0.15	K13B4	350.446	41.270	109.057	16.526	0.60468	2.78504	4	X
K00L25U	15.3	0.15	K13B4	38.190	93.890	238.711	32.865	0.43963	2.61159	4	X
K00N15G	15.8	0.15	K13B4	35.771	45.438	315.157	12.851	0.20126	2.59436	6	X
K00Q70C	18.1	0.15	K13B4	69.461	336.191	339.895	20.738	0.06678	1.87443	5	X
K00Q87J	16.0	0.15	K13B4	14.504	45.771	322.109	10.951	0.20870	2.62759	3	X
K00QK3E	18.3	0.15	K13B4	63.471	162.471	146.260	6.063	0.31238	2.16745	4	X
K00R37V	19.2	0.15	K13B4	281.297	210.924	330.375	16.331	0.49593	1.04095	4	X
K00S11B	16.5	0.15	K13B4	20.100	209.013	188.545	17.892	0.18972	2.59213	6	X
K00SD5C	16.7	0.15	K13B4	14.551	65.110	323.672	11.371	0.22480	2.62190	5	X
K00SF6Z	16.1	0.15	K13B4	44.668	45.297	300.012	15.868	0.23111	2.62665	4	X
K00SI9D	17.0	0.15	K13B4	349.929	193.349	192.203	10.564	0.36209	2.68428	3	X
K00SS8U	16.2	0.15	K13B4	1.765	69.503	340.145	12.221	0.17601	2.61751	6	X
K00SV7Z	16.2	0.15	K13B4	21.056	102.360	254.717	10.089	0.32129	2.64427	5	X
K00T42Q	16.5	0.15	K13B4	18.095	317.818	82.508	6.366	0.29663	2.61090	6	X
K00U13W	20.5	0.15	K13B4	342.506	39.808	33.617	26.464	0.14537	1.27494	3	X
K00W04T	16.2	0.15	K13B4	333.188	159.615	290.592	12.852	0.21065	2.66503	4	X
K00WB6Z	16.4	0.15	K13B4	14.018	137.201	279.442	11.201	0.28315	2.64454	5	X
K00WC4U	16.7	0.15	K13B4	339.452	64.533	63.854	29.407	0.38438	2.63889	5	X
K00WE8A	16.0	0.15	K13B4	33.065	291.382	89.532	13.435	0.21833	2.67006	7	X
K00X20H	15.1	0.15	K13B4	20.339	75.520	300.699	11.659	0.32107	2.66489	4	X
K00Y64P	17.3	0.15	K13B4	299.654	182.596	287.695	17.199	0.08791	1.91741	6	X
K01A43T	16.2	0.15	K13B4	36.100	105.816	284.607	21.575	0.29635	2.19450	4	X
K01A43V	24.6	0.15	K13B4	339.398	42.196	31.555	0.277	0.23920	1.27876	2	X
K01F64F	17.3	0.15	K13B4	226.841	67.764	111.602	4.478	0.10843	2.29613	5	X
K01H21J	18.1	0.15	K13B4	258.907	83.677	194.139	3.899	0.25549	2.20336	4	X
K01O92H	15.2	0.15	K13B4	35.683	25.195	327.272	14.016	0.20700	3.15871	5	X
K01P25L	15.2	0.15	K13B4	40.851	312.802	34.746	8.556	0.27484	3.19431	3	X
K01Q09D	15.4	0.15	K13B4	20.382	52.849	334.179	15.990	0.19851	3.16180	4	X
K01Q34C	20.1	0.15	K13B4	283.642	215.167	271.806	6.235	0.18740	1.12782	3	X
K01QP9M	16.5	0.15	K13B4	256.908	281.267	337.822	23.478	0.28908	2.27995	4	X
K01R47Y	19.4	0.15	K13B4	127.891	214.027	11.250	17.609	0.39289	0.90651	4	X
K01SR2Y	15.6	0.15	K13B4	65.439	112.241	207.521	25.171	0.22034	3.19077	6	X
K01SV6S	16.6	0.15	K13B4	348.021	109.328	319.476	8.304	0.26794	2.52357	4	X
K01TA3P	19.9	0.15	K13B4	310.431	242.917	224.273	4.740	0.35973	1.80098	4	X
K01TI3J	16.9	0.15	K13B4	333.371	83.512	351.425	4.241	0.25356	2.52942	4	X
K01TJ0U	16.3	0.15	K13B4	22.511	134.300	240.000	11.004	0.05849	2.53140	5	X
K01TQ0Q	13.8	0.15	K13B4	249.903	40.827	96.552	5.670	0.00859	5.17251	7	X
K01UG0M	16.9	0.15	K13B4	15.107	159.859	224.741	7.312	0.24028	2.52459	6	X
K01VB4Y	16.5	0.15	K13B4	1.695	140.150	260.740	6.244	0.19820	2.53645	5	X
K01X01E	19.2	0.15	K13B4	260.906	273.045	231.143	20.952	0.21095	1.60353	5	X
K01X24S	15.8	0.15	K13B4	23.806	315.318	79.343	9.431	0.26797	2.53103	7	X
K01X47Y	16.0	0.15	K13B4	2.716	29.414	57.147	12.256	0.16346	2.51730	7	X
K01X73P	15.7	0.15	K13B4	347.645	20.715	75.380	17.770	0.29860	3.27864	5	X
K01XP9Z	17.5	0.15	K13B4	345.130	104.256	313.054	4.707	0.24485	2.54659	4	X

K01YD1U	16.0	0.15	K13B4	333.911	149.638	289.225	12.578	0.14556	2.54395	7	X
K01YD9H	16.8	0.15	K13B4	339.438	249.541	217.730	5.441	0.20699	2.52561	5	X
K01YE9X	16.6	0.15	K13B4	20.016	5.275	31.139	9.464	0.15678	2.53714	5	X
K01YF7E	16.4	0.15	K13B4	351.550	88.509	310.784	13.532	0.11867	2.60676	4	X
K02A68D	16.0	0.15	K13B4	329.486	139.617	307.273	12.039	0.08834	2.59272	5	X
K02AC9X	16.4	0.15	K13B4	306.662	121.685	352.324	21.828	0.09991	2.56487	5	X
K02C17T	17.0	0.15	K13B4	290.311	162.039	314.307	6.094	0.14287	2.60309	6	X
K02C32X	16.9	0.15	K13B4	313.735	69.875	54.358	5.150	0.25251	2.56864	5	X
K02C44H	18.5	0.15	K13B4	323.751	109.936	326.671	19.862	0.06549	1.83110	5	X
K02CG2Q	16.8	0.15	K13B4	323.388	119.841	333.346	15.537	0.18638	2.59168	4	X
K02CO7B	16.2	0.15	K13B4	3.849	202.957	225.842	3.592	0.28181	2.56318	5	X
K02E64G	17.7	0.15	K13B4	170.832	251.538	341.193	6.213	0.14150	2.18575	4	X
K02EB9G	17.2	0.15	K13B4	323.116	253.479	218.552	3.523	0.25287	2.58736	6	X
K02G91B	16.7	0.15	K13B4	239.853	143.847	47.158	8.416	0.16941	2.68450	6	X
K02GE3U	17.9	0.15	K13B4	117.063	222.658	24.449	3.133	0.18763	2.26615	3	S
K02N32J	15.9	0.15	K13B4	17.439	60.153	279.610	17.654	0.45653	3.10447	3	X
K02N71G	15.8	0.15	K13B4	52.824	153.086	149.006	11.131	0.09958	3.02272	3	X
K02O02S	14.9	0.15	K13B4	4.814	188.056	228.325	9.467	0.42938	3.04218	7	X
K02P00W	15.5	0.15	K13B4	15.813	117.585	249.929	20.218	0.31955	3.05766	2	X
K02P06E	17.0	0.15	K13B4	357.231	193.882	150.463	17.585	0.19668	3.12698	2	X
K02P33M	16.1	0.15	K13B4	37.215	10.348	329.589	10.741	0.18272	3.03759	5	X
K02P83N	16.4	0.15	K13B4	12.376	44.370	328.808	25.352	0.18631	2.34817	5	X
K02PD9X	16.0	0.15	K13B4	50.606	344.010	347.763	17.682	0.23176	3.01001	3	X
K02PJ2Q	16.3	0.15	K13B4	2.817	86.039	314.578	11.169	0.16329	2.98968	4	X
K02PJ8J	18.5	0.15	K13B4	77.618	222.167	67.868	3.142	0.22690	2.32398	4	S
K02Q87O	18.1	0.15	K13B4	349.570	61.357	0.513	1.246	0.16693	2.32248	4	S
K02QE1E	16.0	0.15	K13B4	296.928	91.460	319.686	25.270	0.13425	3.16812	3	X
K02R35W	16.0	0.15	K13B4	16.431	25.124	319.481	10.334	0.22479	3.09617	3	X
K02RT0R	16.5	0.15	K13B4	1.540	21.128	17.270	12.944	0.20155	2.33779	6	X
K02S15M	15.4	0.15	K13B4	37.596	27.005	319.796	14.355	0.30315	3.06465	4	X
K02S66W	17.9	0.15	K13B4	318.206	165.344	271.178	17.117	0.09052	1.95076	5	X
K02S73Z	17.2	0.15	K13B4	332.857	224.126	182.032	16.659	0.22217	3.13394	2	S
K02T30N	16.9	0.15	K13B4	357.465	91.691	20.695	19.852	0.44654	2.33467	4	X
K02T44E	16.1	0.15	K13B4	334.259	198.553	203.237	15.035	0.26763	3.17587	2	X
K02T99N	16.2	0.15	K13B4	0.003	151.620	269.101	7.316	0.28230	3.03680	3	X
K02T99T	16.3	0.15	K13B4	339.770	47.865	324.066	8.989	0.23058	3.16190	4	X
K02TB2E	17.7	0.15	K13B4	12.985	354.783	7.404	19.086	0.07722	1.95948	3	X
K02TG7X	15.1	0.15	K13B4	36.573	108.376	240.119	15.537	0.17495	3.06478	7	X
K02TJ0T	15.8	0.15	K13B4	6.576	87.410	314.711	14.761	0.31062	3.08564	4	X
K02TO7Y	16.3	0.15	K13B4	37.634	156.320	208.306	2.078	0.13769	3.05012	9	X
K02TO9H	16.0	0.15	K13B4	330.873	230.550	203.280	7.846	0.18830	3.09566	3	X
K02TP6K	15.6	0.15	K13B4	2.162	6.110	27.519	15.215	0.18758	3.10634	4	X
K02TV1C	17.2	0.15	K13B4	359.991	298.540	76.230	9.628	0.07792	3.14481	3	X
K02TW6U	16.9	0.15	K13B4	318.884	96.257	11.336	22.940	0.28278	2.35129	4	X
K02Tc2A	15.2	0.15	K13B4	204.533	337.826	235.361	13.917	0.09052	2.97951	6	X
K02U04F	16.8	0.15	K13B4	11.007	108.511	269.780	22.956	0.28501	2.37969	3	X
K02U13C	17.3	0.15	K13B4	23.686	172.319	223.824	4.604	0.22921	2.33255	4	X
K02V64X	16.7	0.15	K13B4	29.060	347.217	19.683	9.206	0.19747	2.37282	6	X
K02V88U	17.1	0.15	K13B4	36.442	18.205	5.645	4.237	0.24851	2.34763	5	X
K02VA1Y	15.9	0.15	K13B4	357.921	205.925	235.817	15.190	0.28045	3.08660	4	X
K02VA9B	15.8	0.15	K13B4	263.345	272.677	256.436	19.299	0.27536	2.41351	4	X
K02X23K	15.4	0.15	K13B4	14.844	121.967	263.975	14.268	0.27752	3.11237	4	X
K02X78A	17.0	0.15	K13B4	350.631	133.381	265.830	19.123	0.08936	1.98354	5	X
K03A11A	15.2	0.15	K13B4	312.104	228.571	251.121	21.645	0.24549	3.17843	6	X
K03A87N	15.6	0.15	K13B4	351.160	189.401	276.562	16.424	0.18651	3.13418	2	X
K03B10P	16.7	0.15	K13B4	306.893	159.713	333.382	11.785	0.24604	2.42249	4	X
K03B77B	15.6	0.15	K13B4	112.851	296.743	317.569	29.312	0.31169	2.61340	5	X
K03H15K	16.1	0.15	K13B4	125.347	196.873	48.330	22.445	0.01736	2.64997	5	X

K03J16J	16.6	0.15	K13B4	68.644	66.331	240.611	22.581	0.32400	2.15680	6	X
K03K15R	16.1	0.15	K13B4	17.017	195.631	215.379	9.363	0.17811	2.52427	6	X
K03M05O	15.3	0.15	K13B4	64.803	39.929	279.097	12.466	0.20242	2.79169	5	X
K03N00D	18.7	0.15	K13B4	37.497	23.181	297.217	5.113	0.45004	2.22068	3	X
K03Sg0L	18.8	0.15	K13B4	307.971	218.310	227.580	3.230	0.15246	2.22634	4	S
K03T07Y	18.8	0.15	K13B4	176.037	2.895	24.138	50.079	0.08399	1.71035	3	X
K03T09W	16.7	0.15	K13B4	240.471	105.379	293.550	20.742	0.35200	2.40717	3	X
K03T20P	17.1	0.15	K13B4	39.974	61.511	282.804	7.815	0.22513	2.21452	4	X
K03U03O	16.8	0.15	K13B4	295.934	24.382	21.081	25.364	0.37796	2.30762	4	X
K03U74K	15.8	0.15	K13B4	30.272	94.993	264.715	11.330	0.12608	2.89328	4	X
K03UN9X	16.1	0.15	K13B4	23.694	350.160	29.984	18.362	0.14144	2.87105	6	X
K03U08G	17.4	0.15	K13B4	54.999	111.339	229.490	5.752	0.13382	2.20623	5	X
K03UP2J	15.9	0.15	K13B4	358.509	37.238	47.645	13.920	0.17287	2.87577	5	X
K03UP5V	17.1	0.15	K13B4	16.210	340.346	52.575	2.894	0.09107	2.88974	6	X
K03W31X	15.8	0.15	K13B4	294.414	160.757	245.366	8.298	0.08972	3.10041	5	X
K03W36S	17.6	0.15	K13B4	36.175	74.336	276.965	7.039	0.19025	2.23474	5	X
K03WH1T	17.3	0.15	K13B4	186.050	184.278	202.924	15.855	0.34583	2.52736	3	X
K03X00H	18.4	0.15	K13B4	341.129	202.464	232.373	4.371	0.54438	2.96026	3	X
K03X15K	17.4	0.15	K13B4	355.101	86.460	314.449	19.072	0.10185	1.87261	4	X
K03Y01H	17.9	0.15	K13B4	30.076	68.480	287.644	16.353	0.11395	1.87274	6	X
K03Y13K	14.6	0.15	K13B4	243.017	233.531	297.889	21.547	0.16963	3.10423	5	X
K03Y63B	14.8	0.15	K13B4	208.535	268.408	292.607	21.509	0.23028	3.16136	5	X
K03YB7D	13.1	0.15	K13B4	46.745	53.630	297.405	20.503	0.08436	5.13860	5	X
K03YE4Z	15.9	0.15	K13B4	329.046	75.750	323.927	15.360	0.35246	3.08748	3	X
K04B00F	18.0	0.15	K13B4	312.096	330.199	123.199	22.826	0.07258	1.88280	4	X
K04B68Y	15.9	0.15	K13B4	338.937	182.463	255.575	25.113	0.17300	2.29673	6	X
K04B80J	15.1	0.15	K13B4	209.159	259.142	303.594	17.618	0.20550	3.18236	5	X
K04C56Y	18.1	0.15	K13B4	272.007	111.076	4.973	19.701	0.11514	1.90920	3	X
K04D00T	16.0	0.15	K13B4	2.669	328.872	105.689	4.571	0.24337	3.00183	4	X
K04F21E	16.7	0.15	K13B4	268.744	152.773	6.766	25.632	0.18670	2.33606	4	X
K04H31B	16.2	0.15	K13B4	55.458	1.046	263.451	12.636	0.21354	2.60788	6	X
K04L02N	15.8	0.15	K13B4	46.224	55.711	277.401	16.833	0.32393	2.64090	5	X
K04L03P	15.9	0.15	K13B4	83.888	359.245	285.330	19.569	0.26187	2.61309	3	X
K04P76X	16.2	0.15	K13B4	16.802	58.952	299.904	12.012	0.28896	2.67456	3	X
K04P84G	16.1	0.15	K13B4	69.523	18.596	292.594	13.970	0.18401	2.63253	6	X
K04P97C	17.2	0.15	K13B4	310.847	338.406	7.406	23.120	0.53601	2.91727	3	X
K04PA2M	16.4	0.15	K13B4	350.257	190.373	172.568	16.099	0.27987	2.76146	4	X
K04R01G	16.6	0.15	K13B4	19.191	335.477	21.704	10.637	0.37886	2.69018	3	X
K04R57Q	16.0	0.15	K13B4	47.257	33.409	326.366	14.609	0.10246	2.61981	5	X
K04R62L	16.4	0.15	K13B4	41.148	13.950	348.009	12.542	0.17325	2.64028	7	X
K04R70M	16.4	0.15	K13B4	19.825	334.459	52.615	4.105	0.12292	2.63949	6	X
K04R86K	16.9	0.15	K13B4	22.756	95.364	276.768	4.620	0.24199	2.64186	6	X
K04RK3U	16.7	0.15	K13B4	23.800	64.751	316.668	10.573	0.21269	2.64997	4	X
K04RM1N	16.6	0.15	K13B4	12.657	117.937	269.289	15.405	0.28207	2.67694	4	X
K04RQ3K	16.9	0.15	K13B4	16.057	202.851	165.243	6.823	0.07051	2.67972	4	S
K04RV6H	17.7	0.15	K13B4	51.735	122.598	203.098	11.688	0.28268	2.65185	3	X
K04RW3E	16.2	0.15	K13B4	66.246	0.367	329.542	12.353	0.17367	2.65985	4	X
K04RY6T	16.0	0.15	K13B4	345.387	149.195	277.305	11.804	0.16497	2.67089	3	X
K04T14E	16.3	0.15	K13B4	13.206	351.690	39.126	17.871	0.30197	2.69563	4	X
K04TD0L	17.6	0.15	K13B4	240.663	154.569	161.176	7.836	0.30020	2.31509	3	X
K04TE6R	16.4	0.15	K13B4	346.180	189.975	236.210	4.574	0.04321	2.66841	5	X
K04TR4S	16.9	0.15	K13B4	4.535	18.346	26.150	4.988	0.12583	2.71819	4	X
K04TR6M	16.9	0.15	K13B4	45.518	119.193	215.277	11.716	0.25119	2.72581	3	S
K04TU7X	15.9	0.15	K13B4	36.253	133.987	229.545	13.628	0.18200	2.68482	5	X
K04TW3S	16.6	0.15	K13B4	311.672	23.820	59.778	5.509	0.03845	2.76937	5	X
K04TX8U	16.5	0.15	K13B4	28.460	321.738	28.739	13.835	0.19550	2.73686	5	X
K04TY5R	16.5	0.15	K13B4	5.276	349.037	37.636	8.608	0.14139	2.73918	5	X
K04Ta8R	16.5	0.15	K13B4	31.751	304.764	46.388	12.573	0.18986	2.75275	4	X

K04U01M	16.1	0.15	K13B4	317.162	211.664	242.064	12.830	0.16822	2.71012	5	X
K04V18G	16.1	0.15	K13B4	252.023	239.673	232.297	9.295	0.18756	2.88085	4	X
K04V22H	16.2	0.15	K13B4	16.553	14.147	46.489	6.659	0.20852	2.68154	4	X
K04V26G	16.3	0.15	K13B4	4.940	152.845	241.327	12.750	0.19354	2.73860	6	X
K04V54T	15.6	0.15	K13B4	45.131	276.857	88.936	26.081	0.31432	2.66429	3	X
K04V57G	16.2	0.15	K13B4	349.360	143.769	275.480	10.582	0.15238	2.70370	4	X
K04X76S	15.7	0.15	K13B4	52.447	110.327	243.747	8.921	0.25117	2.69425	5	X
K04XA6X	16.1	0.15	K13B4	29.738	315.306	59.296	8.435	0.27393	2.73428	6	X
K04XA7L	16.3	0.15	K13B4	5.296	110.336	284.876	8.662	0.31496	2.75655	4	X
K04XA8D	16.6	0.15	K13B4	313.384	83.503	46.157	7.616	0.29444	2.77051	5	X
K04XD1G	16.8	0.15	K13B4	344.403	2.241	62.891	10.769	0.30800	2.74775	2	X
K04XD3Z	16.8	0.15	K13B4	328.607	41.727	62.397	16.372	0.27217	2.74132	3	X
K05A79A	13.9	0.15	K13B4	86.051	348.698	330.157	18.543	0.03115	5.19024	6	X
K05B01W	18.2	0.15	K13B4	15.542	274.188	342.529	62.263	0.87480	2.62939	2	X
K05C50L	15.5	0.15	K13B4	170.683	250.551	325.732	25.863	0.20313	3.09161	5	X
K05C61J	15.7	0.15	K13B4	101.119	266.013	351.723	9.542	0.06667	3.14017	4	X
K05C78Y	16.0	0.15	K13B4	211.254	358.779	168.935	18.569	0.23408	3.07202	4	X
K05D01N	16.5	0.15	K13B4	199.580	319.608	216.028	0.515	0.13983	3.10974	4	X
K05E00F	20.7	0.15	K13B4	113.144	269.431	350.770	18.592	0.16655	1.20703	3	X
K05EH3Q	18.1	0.15	K13B4	124.584	10.465	207.532	5.261	0.18002	2.32823	3	X
K05G25Z	18.3	0.15	K13B4	58.385	338.455	19.823	18.237	0.08786	1.78828	2	X
K05G49M	18.5	0.15	K13B4	117.194	188.956	52.352	2.288	0.14816	2.33442	3	X
K05J16L	16.0	0.15	K13B4	206.208	351.273	186.507	17.602	0.15494	3.10549	4	S
K05J43S	18.3	0.15	K13B4	111.082	40.033	222.748	8.511	0.38732	2.36170	2	X
K05J50X	18.1	0.15	K13B4	100.527	159.867	95.332	2.509	0.16077	2.36177	4	X
K05JD4U	17.2	0.15	K13B4	308.699	118.638	229.614	28.338	0.39937	2.58744	3	X
K05K00C	17.2	0.15	K13B4	166.474	353.021	249.747	25.757	0.26355	2.25771	3	X
K05L25H	17.8	0.15	K13B4	67.418	89.104	223.392	4.813	0.26255	2.37681	4	X
K05M12C	18.1	0.15	K13B4	138.012	29.174	289.978	5.921	0.29900	2.28117	3	X
K05N16B	17.6	0.15	K13B4	138.320	207.521	54.515	1.208	0.17666	2.34621	5	X
K05O12T	17.3	0.15	K13B4	28.691	317.308	51.626	2.960	0.20729	2.45009	6	X
K05O31J	16.8	0.15	K13B4	50.395	3.302	330.166	16.947	0.24665	2.42260	5	X
K05Q65M	15.7	0.15	K13B4	50.860	316.118	30.491	23.785	0.22761	2.40822	5	X
K05QH0R	17.9	0.15	K13B4	354.500	76.087	332.185	20.421	0.11401	1.89816	4	X
K05R06Q	18.9	0.15	K13B4	2.727	5.558	36.209	12.481	0.55119	2.50567	3	X
K05R24U	16.0	0.15	K13B4	48.139	113.646	223.561	12.381	0.22851	2.44207	4	X
K05S00D	16.2	0.15	K13B4	157.658	91.129	313.858	21.122	0.49680	3.13436	3	X
K05S51K	17.9	0.15	K13B4	345.498	178.396	194.336	3.292	0.27818	2.58561	5	X
K05SC8T	17.9	0.15	K13B4	7.199	28.761	307.223	2.676	0.30651	2.57524	3	X
K05SF3P	16.9	0.15	K13B4	195.368	332.418	199.226	11.585	0.11386	2.54806	4	X
K05SS0M	18.5	0.15	K13B4	84.085	246.922	203.504	21.372	0.30821	2.28238	3	X
K05TD7L	18.0	0.15	K13B4	19.253	340.596	28.598	20.924	0.09032	1.93030	3	X
K05U65Z	16.6	0.15	K13B4	348.361	213.068	234.692	5.308	0.09599	2.44843	5	X
K05UC8F	15.7	0.15	K13B4	330.456	60.388	41.314	6.723	0.23940	3.97362	4	X
K05UG9L	17.7	0.15	K13B4	8.831	161.518	237.111	6.191	0.14424	2.51133	5	X
K05UJ1H	18.2	0.15	K13B4	26.477	121.544	236.476	4.286	0.20800	2.53526	4	X
K05UZ3M	17.0	0.15	K13B4	22.553	353.554	7.903	7.647	0.15090	2.54401	7	X
K05Ui1O	17.2	0.15	K13B4	15.364	169.812	238.964	19.988	0.05808	1.91027	3	X
K05V05W	18.3	0.15	K13B4	255.545	139.996	176.960	3.702	0.32973	2.14462	3	X
K05V87L	18.2	0.15	K13B4	0.146	147.559	222.824	13.840	0.18864	2.58242	3	X
K05VA8S	17.4	0.15	K13B4	345.745	105.302	272.335	4.596	0.31891	2.60003	3	X
K05VC5C	16.7	0.15	K13B4	7.969	118.345	273.921	12.165	0.17941	2.58378	3	X
K05W82L	17.6	0.15	K13B4	53.169	320.090	20.153	22.165	0.07354	1.89312	4	X
K05W88A	17.9	0.15	K13B4	318.864	332.633	93.976	6.670	0.25058	2.63567	4	X
K05W91T	18.1	0.15	K13B4	352.218	298.250	58.307	10.220	0.18744	1.97034	4	X
K05WA5W	17.0	0.15	K13B4	353.587	250.954	153.892	8.205	0.18564	2.54755	4	X
K05WF3H	17.1	0.15	K13B4	80.562	255.059	78.835	24.151	0.06719	1.90083	4	X
K05WG6D	17.4	0.15	K13B4	88.554	300.149	87.916	5.590	0.34977	2.36411	4	X

K05X01F	17.3	0.15	K13B4	30.499	105.025	259.139	20.231	0.11855	1.94070	5	X
K05X08J	17.0	0.15	K13B4	307.970	67.290	115.996	23.581	0.62112	1.93060	4	X
K05X20B	15.8	0.15	K13B4	352.046	138.498	273.936	14.122	0.05886	2.57122	5	X
K05X25Z	16.5	0.15	K13B4	17.777	303.838	73.827	11.528	0.23325	2.55655	6	X
K05XB8A	16.1	0.15	K13B4	101.637	351.554	300.266	13.394	0.11957	2.69159	5	X
K05Y15M	16.8	0.15	K13B4	347.340	140.716	288.268	10.808	0.28910	2.57400	4	X
K05Y82Y	18.0	0.15	K13B4	323.180	338.397	113.814	14.646	0.23512	2.60151	3	X
K05YR5L	15.7	0.15	K13B4	276.388	117.838	45.726	17.825	0.24955	2.62375	3	X
K06A03L	19.9	0.15	K13B4	311.329	144.767	319.050	13.664	0.12659	1.37725	3	X
K06A11V	17.2	0.15	K13B4	32.122	66.247	277.295	3.639	0.35888	2.59885	5	X
K06A16L	16.4	0.15	K13B4	242.038	207.787	320.049	29.182	0.18943	2.74501	3	X
K06A68G	16.5	0.15	K13B4	1.289	105.469	300.701	16.081	0.25858	2.60198	5	X
K06A82G	16.2	0.15	K13B4	22.297	253.316	118.651	14.320	0.18532	2.57093	7	X
K06B13H	16.3	0.15	K13B4	283.071	182.176	295.064	9.589	0.07323	2.68069	6	X
K06B39R	15.8	0.15	K13B4	331.401	119.062	315.141	21.545	0.05143	2.66032	4	X
K06BA5M	17.5	0.15	K13B4	311.558	86.971	335.886	4.163	0.09070	2.74398	4	X
K06BG7L	17.0	0.15	K13B4	359.257	297.960	137.245	5.027	0.24839	2.57420	4	X
K06BK8D	16.0	0.15	K13B4	291.052	181.599	311.379	16.322	0.08370	2.67590	4	X
K06BP7E	17.5	0.15	K13B4	293.196	5.785	121.658	5.460	0.22959	2.66454	3	X
K06C68Y	16.9	0.15	K13B4	346.087	27.873	41.804	3.468	0.02431	2.69231	7	X
K06D14M	17.4	0.15	K13B4	232.875	110.146	317.469	11.795	0.51951	2.91842	3	X
K06D92Z	16.9	0.15	K13B4	344.233	261.872	173.131	4.712	0.20110	2.69629	5	X
K06DA8N	15.5	0.15	K13B4	83.737	285.474	351.783	23.128	0.41377	3.14066	4	X
K06E01E	19.8	0.15	K13B4	344.527	278.017	154.250	36.402	0.27649	1.20288	3	X
K06E04P	17.6	0.15	K13B4	248.562	124.803	20.715	3.629	0.10582	2.78359	3	X
K06H30U	19.6	0.15	K13B4	40.538	274.195	44.709	24.006	0.41984	1.45480	4	X
K06H58B	15.7	0.15	K13B4	266.798	74.915	87.367	10.062	0.15860	2.79759	5	X
K06H86T	17.2	0.15	K13B4	280.015	104.302	39.301	8.589	0.24440	2.73071	4	X
K06K38V	16.7	0.15	K13B4	270.608	247.379	62.254	30.631	0.42021	2.57341	3	X
K06K40W	16.1	0.15	K13B4	97.108	235.830	44.050	29.218	0.27281	3.11003	3	X
K06P04Z	17.0	0.15	K13B4	359.307	251.358	131.996	19.788	0.17199	2.24640	5	X
K06Q44Z	18.0	0.15	K13B4	10.770	36.785	343.577	1.073	0.24485	2.26643	3	X
K06R01D	16.8	0.15	K13B4	36.747	97.222	257.043	21.556	0.26345	2.26904	3	X
K06RA8J	18.9	0.15	K13B4	20.809	34.954	188.918	5.383	0.22965	1.90580	3	X
K06S52A	17.6	0.15	K13B4	30.781	107.347	222.198	4.614	0.18921	2.30770	4	X
K06S60P	17.2	0.15	K13B4	51.910	288.363	50.090	9.107	0.20379	2.26305	5	X
K06SD3U	18.2	0.15	K13B4	26.742	31.040	343.200	3.670	0.21036	2.26133	4	X
K06SG2A	19.0	0.15	K13B4	46.188	172.921	154.040	1.029	0.21618	2.28699	3	X
K06SM2W	17.8	0.15	K13B4	3.520	302.599	101.775	4.537	0.16368	2.26826	6	X
K06SM4R	18.0	0.15	K13B4	46.598	171.121	156.212	8.399	0.21145	2.24491	3	S
K06T30C	17.7	0.15	K13B4	279.813	50.904	47.670	3.549	0.13622	2.37821	3	X
K06T94W	17.7	0.15	K13B4	22.844	299.757	52.640	6.835	0.27329	2.32275	4	X
K06U00Q	18.5	0.15	K13B4	355.052	185.627	212.672	25.501	0.31686	2.32038	2	X
K06U06D	17.6	0.15	K13B4	357.960	11.466	48.041	7.931	0.21556	2.28505	4	X
K06U51Y	16.8	0.15	K13B4	180.232	201.969	15.643	6.483	0.11930	2.30390	6	X
K06U69Q	17.5	0.15	K13B4	64.098	282.202	50.421	7.004	0.15620	2.27052	5	X
K06UC6V	18.5	0.15	K13B4	1.616	133.207	277.452	2.204	0.17895	2.28526	4	X
K06UD8X	17.8	0.15	K13B4	24.630	82.876	276.212	3.844	0.24693	2.31539	6	X
K06UI4R	17.6	0.15	K13B4	336.690	95.272	337.234	6.643	0.15728	2.29711	4	X
K06UJ6U	17.7	0.15	K13B4	329.637	340.185	41.566	4.362	0.08918	2.41204	2	X
K06UL2V	17.2	0.15	K13B4	346.780	182.808	237.865	10.988	0.21630	2.32163	4	X
K06V16B	17.9	0.15	K13B4	55.681	307.913	16.914	2.700	0.25395	2.30819	4	X
K06V54O	19.1	0.15	K13B4	323.551	2.186	75.626	2.620	0.15603	2.34373	4	X
K06VB6K	16.8	0.15	K13B4	37.828	303.124	73.299	11.890	0.19359	2.27313	6	X
K06W01X	19.6	0.15	K13B4	141.835	290.939	328.046	11.643	0.30030	0.91663	4	X
K06W55U	17.4	0.15	K13B4	316.657	26.935	84.281	5.346	0.29124	2.37330	3	X
K06WA6N	18.0	0.15	K13B4	43.565	257.338	82.304	4.989	0.16605	2.34769	6	X
K06WB0F	18.2	0.15	K13B4	298.921	301.864	177.774	1.107	0.11688	2.34054	4	X

K06WJ8W	18.0	0.15	K13B4	349.250	14.102	51.101	2.084	0.16965	2.36386	5	X
K06X07K	17.4	0.15	K13B4	23.479	313.153	75.706	6.866	0.26597	2.30221	8	X
K06X23A	17.3	0.15	K13B4	0.132	4.151	92.652	5.821	0.15433	2.25690	6	X
K06X45F	18.3	0.15	K13B4	266.719	141.124	338.665	0.841	0.14590	2.43153	4	X
K06X71T	17.3	0.15	K13B4	220.985	66.450	98.132	6.741	0.13116	2.44048	4	X
K07B79A	17.7	0.15	K13B4	340.315	269.066	146.297	8.317	0.17809	2.45153	5	X
K07B80G	16.5	0.15	K13B4	153.987	256.513	311.072	27.099	0.08319	2.56606	3	X
K07D11A	16.7	0.15	K13B4	206.691	350.913	163.122	13.120	0.09650	2.65568	4	X
K07D44H	17.5	0.15	K13B4	199.855	351.364	170.171	13.676	0.12177	2.63729	4	X
K07D48S	15.6	0.15	K13B4	42.110	14.276	331.901	12.452	0.24470	2.56113	5	X
K07DB1Q	16.5	0.15	K13B4	39.111	344.018	9.914	13.333	0.17832	2.59743	4	X
K07E14R	17.9	0.15	K13B4	338.402	260.049	190.634	1.107	0.14865	2.39569	4	X
K07EF7O	17.7	0.15	K13B4	190.531	172.110	359.832	3.434	0.12224	2.61796	5	X
K07EJ3U	17.9	0.15	K13B4	246.443	315.698	192.263	15.199	0.13050	2.59020	3	X
K07F08J	16.7	0.15	K13B4	43.500	195.036	169.904	4.410	0.22837	2.55282	4	X
K07G17C	16.0	0.15	K13B4	54.846	314.040	30.693	14.540	0.19085	2.72827	5	X
K07G45T	16.8	0.15	K13B4	242.950	304.922	205.627	10.896	0.02210	2.69255	5	X
K07H63Q	16.3	0.15	K13B4	97.421	243.630	47.526	13.680	0.20697	2.77124	4	X
K07J21R	16.7	0.15	K13B4	82.710	83.744	227.754	7.216	0.14790	2.77034	5	X
K07O06S	17.1	0.15	K13B4	5.796	325.844	40.258	16.111	0.58707	3.30752	3	X
K07O07H	15.3	0.15	K13B4	41.725	98.799	246.031	23.805	0.37005	3.18613	3	X
K07P23P	15.0	0.15	K13B4	17.751	60.840	289.159	12.709	0.27093	3.19862	4	X
K07P24O	15.3	0.15	K13B4	12.561	61.587	320.551	15.164	0.24611	3.14320	5	X
K07P25M	15.6	0.15	K13B4	6.276	79.377	307.648	14.956	0.25607	3.13487	4	X
K07Q00Y	15.3	0.15	K13B4	30.935	37.571	314.184	20.810	0.10770	3.12031	3	X
K07Q13G	15.5	0.15	K13B4	38.990	314.700	45.787	17.591	0.19820	3.13383	5	X
K07Q14B	16.2	0.15	K13B4	333.883	62.093	351.339	10.433	0.06282	3.16684	4	S
K07R06X	15.4	0.15	K13B4	61.355	37.782	292.820	9.618	0.02688	3.06348	10	X
K07R28X	16.1	0.15	K13B4	338.614	238.150	173.500	9.372	0.03931	3.18151	6	X
K07R31G	15.6	0.15	K13B4	358.699	88.962	319.082	15.128	0.24540	3.13320	5	X
K07R48T	15.6	0.15	K13B4	349.778	73.881	7.557	25.379	0.28478	3.16021	3	X
K07R55Y	15.3	0.15	K13B4	46.872	5.046	349.102	15.189	0.21226	3.11989	5	X
K07R70D	16.6	0.15	K13B4	18.167	262.575	111.615	3.191	0.17346	3.15385	4	S
K07R71E	15.7	0.15	K13B4	90.256	294.955	358.078	21.117	0.23253	3.06079	4	X
K07RC5T	16.1	0.15	K13B4	14.707	341.897	52.059	10.037	0.20255	3.14639	4	X
K07RE9N	16.0	0.15	K13B4	18.237	190.711	212.594	19.415	0.20664	3.12108	5	X
K07RJ8Z	15.6	0.15	K13B4	27.761	140.453	222.641	16.660	0.26255	3.16245	3	X
K07RP0A	15.9	0.15	K13B4	89.007	91.820	223.950	9.049	0.10183	3.07068	4	X
K07RR5N	15.8	0.15	K13B4	11.483	279.265	101.583	21.155	0.36346	3.19802	3	X
K07RV4E	16.4	0.15	K13B4	14.532	358.699	19.037	10.950	0.21419	3.15037	3	X
K07RV8A	15.9	0.15	K13B4	27.879	336.413	37.695	9.695	0.15434	3.17558	4	X
K07S06G	15.3	0.15	K13B4	27.147	345.264	38.068	15.749	0.12140	3.18496	5	X
K07TB0M	16.2	0.15	K13B4	21.869	55.241	317.853	8.599	0.25731	3.17438	4	X
K07TF0Y	15.8	0.15	K13B4	39.718	117.932	238.823	6.863	0.18820	3.15982	4	X
K07TH0W	15.0	0.15	K13B4	229.128	182.012	2.409	27.662	0.11535	3.14545	5	X
K07TO3C	16.5	0.15	K13B4	22.320	123.880	238.856	10.332	0.21749	3.24423	3	X
K07TT0F	16.0	0.15	K13B4	40.308	281.081	90.094	11.930	0.28374	3.12015	5	X
K07VI6H	20.2	0.15	K13B4	351.002	15.168	51.504	19.239	0.19696	1.57420	4	X
K07VI9O	16.5	0.15	K13B4	226.614	92.365	280.043	19.972	0.38177	2.41137	3	X
K07VU3C	15.6	0.15	K13B4	6.206	343.501	91.700	30.163	0.21998	3.16931	5	X
K07VX0H	15.3	0.15	K13B4	0.727	345.184	93.438	14.009	0.10021	3.22863	5	X
K07X09Y	21.0	0.15	K13B4	20.913	127.097	234.221	3.335	0.61933	2.04914	3	X
K07X55G	18.3	0.15	K13B4	307.115	1.514	94.383	4.155	0.12044	2.16489	4	X
K07Y01K	15.5	0.15	K13B4	359.725	97.417	305.656	41.839	0.43337	3.40381	3	X
K07Y33E	16.2	0.15	K13B4	357.613	141.034	273.757	2.405	0.12000	3.39937	5	X
K08A64N	18.6	0.15	K13B4	298.041	300.181	163.557	3.721	0.08373	2.19892	4	X
K08C91R	18.2	0.15	K13B4	158.606	52.264	151.423	5.859	0.11559	2.37958	4	X
K08CG4B	17.2	0.15	K13B4	313.248	158.750	298.090	7.615	0.05868	2.20115	5	X

K08CG6O	18.4	0.15	K13B4	166.965	138.870	357.015	20.055	0.06972	1.75364	3	X
K08CI4G	17.8	0.15	K13B4	258.275	100.622	32.982	6.576	0.08231	2.27021	4	X
K08E92T	17.3	0.15	K13B4	220.615	68.885	106.202	21.732	0.31058	2.33098	3	X
K08F06T	17.4	0.15	K13B4	350.208	52.166	41.994	13.587	0.42599	2.13822	4	X
K08F52S	18.3	0.15	K13B4	214.527	88.645	86.992	2.488	0.11923	2.35220	3	X
K08G05W	17.2	0.15	K13B4	120.047	220.139	46.199	10.702	0.12440	2.41462	3	S
K08G23J	17.8	0.15	K13B4	187.896	33.909	161.876	6.691	0.05760	2.37935	4	X
K08G72Y	18.2	0.15	K13B4	322.340	56.182	41.894	2.515	0.10314	2.24444	5	X
K08GD2N	13.4	0.15	K13B4	136.186	42.743	223.253	24.952	0.01522	5.29165	4	S
K08H03O	18.1	0.15	K13B4	8.517	126.624	208.223	13.807	0.65851	2.89614	2	X
K08J04D	17.4	0.15	K13B4	58.692	99.183	198.811	11.786	0.26015	2.65536	4	X
K08J21J	16.5	0.15	K13B4	91.641	280.788	350.966	16.112	0.23762	2.55978	3	X
K08J26R	19.9	0.15	K13B4	47.563	96.524	230.755	16.814	0.17751	1.39428	2	X
K08J27L	13.4	0.15	K13B4	99.592	91.247	209.748	22.564	0.04202	5.23780	4	X
K08K15S	16.1	0.15	K13B4	236.819	256.207	106.898	16.706	0.05228	3.12829	4	S
K08O03V	16.7	0.15	K13B4	40.514	26.177	299.333	8.196	0.27844	2.80097	4	X
K08O07C	16.1	0.15	K13B4	55.747	76.663	261.712	13.236	0.11068	2.70136	4	X
K08O07N	16.2	0.15	K13B4	31.368	65.351	303.865	13.656	0.18727	2.67816	4	X
K08P19E	17.1	0.15	K13B4	336.273	108.573	335.255	12.535	0.15655	2.68841	4	X
K08P21H	15.8	0.15	K13B4	31.798	219.542	133.703	16.360	0.27729	2.79975	7	X
K08R08L	17.6	0.15	K13B4	118.327	63.728	327.237	5.159	0.30872	2.40292	4	X
K08R24V	16.7	0.15	K13B4	272.813	279.570	359.215	30.710	0.29848	2.14944	4	X
K08R39F	16.9	0.15	K13B4	344.369	214.893	172.091	9.179	0.10945	2.94387	3	X
K08R43A	17.0	0.15	K13B4	5.603	6.665	41.585	2.296	0.07502	2.75820	5	X
K08RB3T	17.2	0.15	K13B4	25.258	160.115	222.279	2.696	0.10369	2.74539	5	X
K08RB7S	16.6	0.15	K13B4	315.285	241.401	205.541	14.401	0.12007	2.85573	4	X
K08S23G	17.3	0.15	K13B4	39.791	40.133	324.832	1.524	0.07230	2.71722	4	X
K08S74B	17.0	0.15	K13B4	4.233	114.397	211.923	4.181	0.18055	3.13205	2	X
K08SA4G	16.3	0.15	K13B4	305.342	230.835	203.826	6.857	0.13240	3.06743	3	X
K08SC1N	17.1	0.15	K13B4	332.285	51.842	16.352	11.228	0.08659	2.90926	3	X
K08SC3F	16.2	0.15	K13B4	60.575	148.475	204.849	13.390	0.15855	2.76935	5	X
K08SE5X	16.7	0.15	K13B4	5.606	40.672	15.277	7.365	0.20300	2.78030	5	X
K08SM1L	17.5	0.15	K13B4	339.970	30.657	348.334	3.825	0.10464	2.98752	4	X
K08SS2K	16.1	0.15	K13B4	231.811	303.878	218.057	8.612	0.03104	3.11119	4	X
K08SU5C	16.7	0.15	K13B4	348.825	231.142	185.599	14.993	0.13649	2.86829	3	X
K08T04D	19.8	0.15	K13B4	50.708	54.712	222.043	14.475	0.61804	1.82120	4	X
K08T29K	15.8	0.15	K13B4	28.213	345.178	25.091	9.843	0.29598	2.79425	5	X
K08TC7B	16.8	0.15	K13B4	74.507	348.721	328.145	6.626	0.05474	2.85334	7	X
K08U36P	16.7	0.15	K13B4	274.466	83.786	32.669	11.426	0.15421	3.12204	4	X
K08U52H	16.6	0.15	K13B4	12.519	165.471	229.891	11.363	0.21670	2.93745	3	X
K08U75X	16.1	0.15	K13B4	354.801	8.254	49.850	17.993	0.06444	2.96617	4	X
K08UD2H	16.8	0.15	K13B4	74.951	77.735	247.203	2.266	0.10513	2.88983	5	X
K08UD8M	16.7	0.15	K13B4	7.119	352.430	51.915	6.584	0.07737	2.89480	5	X
K08UE1P	16.8	0.15	K13B4	17.708	118.159	226.005	3.986	0.15232	3.11883	5	X
K08UE1X	17.5	0.15	K13B4	332.358	25.177	66.309	1.009	0.18938	2.91852	3	X
K08UF4F	15.9	0.15	K13B4	15.659	316.504	52.196	10.788	0.03887	3.08377	3	S
K08UF7O	16.4	0.15	K13B4	267.019	280.443	229.601	8.690	0.16230	3.02522	5	X
K08UH2W	16.3	0.15	K13B4	254.372	272.493	231.956	14.534	0.09516	3.04521	4	X
K08UN9U	15.7	0.15	K13B4	3.099	56.222	284.365	7.457	0.20919	3.20542	4	X
K08UQ2E	16.0	0.15	K13B4	285.567	52.632	40.274	22.766	0.10733	3.21150	4	X
K08UT0P	15.9	0.15	K13B4	77.520	39.768	244.020	8.891	0.06682	3.11025	4	X
K08UV5C	17.1	0.15	K13B4	306.795	13.990	78.837	0.820	0.19970	3.10487	4	S
K08UW2G	17.0	0.15	K13B4	337.521	137.510	232.578	13.343	0.17968	3.14479	2	X
K08UX3C	17.5	0.15	K13B4	55.507	108.073	226.901	20.109	0.10944	1.86325	4	X
K08UX8P	15.7	0.15	K13B4	40.836	81.572	244.535	17.659	0.12614	3.19068	4	S
K08UY0N	16.9	0.15	K13B4	324.081	256.195	163.902	1.572	0.07568	3.04316	4	X
K08UZ6B	17.0	0.15	K13B4	328.304	153.220	274.997	4.434	0.15787	3.05676	4	S
K08V00A	18.9	0.15	K13B4	91.575	160.192	223.142	28.299	0.07272	1.71028	3	X

K08V00V	20.6	0.15	K13B4	3.489	156.549	234.621	17.239	0.51903	2.92200	2	K
K08V05E	16.9	0.15	K13B4	352.655	344.991	102.616	8.840	0.30295	2.77051	5	X
K08V59A	15.9	0.15	K13B4	239.308	102.058	61.196	11.147	0.04798	3.02874	7	X
K08V59T	17.9	0.15	K13B4	57.028	274.608	51.214	21.422	0.09780	1.86272	2	X
K08V80B	15.8	0.15	K13B4	256.248	241.681	266.987	7.462	0.20460	3.18152	4	X
K08W21E	16.6	0.15	K13B4	86.675	308.573	63.885	6.817	0.07926	2.68501	4	X
K08W31V	16.9	0.15	K13B4	339.337	82.762	358.945	1.432	0.17275	2.98713	5	X
K08W32L	18.2	0.15	K13B4	61.817	283.665	46.067	22.122	0.14048	1.85064	3	X
K08W33L	15.9	0.15	K13B4	13.111	111.953	275.166	14.384	0.19677	2.97276	5	X
K08W47C	16.1	0.15	K13B4	42.244	259.187	68.014	16.355	0.28009	3.05628	3	X
K08W89O	16.1	0.15	K13B4	2.091	117.428	278.598	20.984	0.13605	3.13039	4	X
K08WA3S	16.7	0.15	K13B4	7.390	173.497	229.965	10.058	0.13741	2.90871	5	X
K08WD6H	16.0	0.15	K13B4	4.187	111.849	267.749	14.646	0.23893	3.14833	4	X
K08X01T	17.3	0.15	K13B4	351.368	157.326	252.269	19.532	0.09540	1.86409	3	X
K08X15K	17.8	0.15	K13B4	295.864	209.738	255.819	18.120	0.05749	1.88771	3	X
K08Y13S	15.6	0.15	K13B4	9.940	86.859	298.595	24.164	0.31719	3.17543	5	X
K08Y60U	15.8	0.15	K13B4	331.658	144.660	299.508	16.689	0.22549	3.12300	4	X
K08Y64D	15.5	0.15	K13B4	2.919	114.159	286.761	14.862	0.25318	3.14211	4	X
K08YA5J	16.2	0.15	K13B4	326.898	156.816	296.566	17.648	0.21258	3.14991	4	X
K08YC4M	16.1	0.15	K13B4	19.476	81.625	297.245	17.891	0.16304	3.20158	4	X
K08YH1L	16.2	0.15	K13B4	0.499	116.306	294.064	4.010	0.18822	3.06631	6	X
K09A15N	18.2	0.15	K13B4	52.218	55.344	286.609	18.309	0.08260	1.91090	4	X
K09A48D	16.5	0.15	K13B4	339.191	307.191	163.739	5.326	0.27569	3.00916	6	X
K09B00U	16.6	0.15	K13B4	353.338	333.892	115.642	3.681	0.32933	2.99893	4	X
K09B21Q	18.0	0.15	K13B4	245.829	206.704	311.328	17.469	0.04190	1.94910	2	S
K09B55Q	16.5	0.15	K13B4	318.723	152.530	319.570	15.445	0.27008	3.14720	3	X
K09C00J	17.9	0.15	K13B4	66.699	3.719	351.194	18.132	0.05323	1.90507	4	X
K09D01M	17.0	0.15	K13B4	349.947	219.798	197.597	15.202	0.64005	2.89405	3	X
K09H11V	17.4	0.15	K13B4	318.447	70.730	36.193	22.127	0.09342	1.96808	4	X
K09K00Q	17.2	0.15	K13B4	59.680	106.484	209.357	6.864	0.16624	2.23994	7	X
K09M01Y	13.6	0.15	K13B4	347.338	271.612	128.937	28.746	0.01435	5.09937	3	X
K09O20V	17.2	0.15	K13B4	14.767	261.729	118.077	11.141	0.24186	2.38843	3	X
K09P08J	16.7	0.15	K13B4	63.579	6.157	316.260	6.287	0.12869	2.37360	5	X
K09P11L	17.6	0.15	K13B4	49.403	100.611	236.688	1.296	0.23415	2.36715	4	X
K09Q41R	17.0	0.15	K13B4	0.158	177.879	168.628	15.050	0.26114	2.61937	3	X
K09Q57M	18.0	0.15	K13B4	355.048	62.527	354.257	1.980	0.21858	2.41619	4	X
K09R11F	17.4	0.15	K13B4	20.478	191.764	189.307	1.192	0.19535	2.43606	4	X
K09R39R	17.3	0.15	K13B4	152.706	15.928	237.707	6.679	0.08562	2.37023	6	X
K09R42Z	17.3	0.15	K13B4	26.567	76.933	234.556	5.172	0.14487	2.66508	3	X
K09S01G	13.5	0.15	K13B4	100.714	159.004	120.879	23.609	0.07327	5.13122	5	X
K09S05N	17.5	0.15	K13B4	9.661	133.880	240.677	4.423	0.28183	2.47532	2	X
K09S30N	18.4	0.15	K13B4	336.517	214.888	176.837	5.537	0.20901	2.61832	3	X
K09SA3G	15.2	0.15	K13B4	354.406	178.540	235.383	31.318	0.19462	2.58042	5	X
K09SY5O	18.1	0.15	K13B4	301.747	158.598	280.175	1.458	0.12157	2.59186	4	X
K09SZ4Z	17.4	0.15	K13B4	46.813	281.331	49.879	6.991	0.29270	2.53192	4	X
K09T13O	17.0	0.15	K13B4	306.137	272.538	146.987	8.224	0.21750	2.72428	3	X
K09T17Z	16.4	0.15	K13B4	343.002	286.948	141.367	13.725	0.16344	2.53808	6	X
K09U48O	17.9	0.15	K13B4	54.371	121.090	215.530	2.216	0.18784	2.45909	4	X
K09U73A	17.4	0.15	K13B4	345.326	201.993	201.168	5.837	0.28473	2.61139	3	X
K09U88A	16.3	0.15	K13B4	67.812	67.952	233.710	13.962	0.10327	2.61839	4	X
K09UA8Q	17.1	0.15	K13B4	353.649	194.986	225.126	15.396	0.08496	2.51816	3	X
K09UB8D	18.2	0.15	K13B4	350.184	31.297	41.918	1.954	0.16966	2.41984	4	X
K09UD8Q	17.5	0.15	K13B4	340.153	196.448	206.241	3.598	0.19627	2.61056	4	X
K09V02Q	15.5	0.15	K13B4	55.478	331.898	343.401	12.177	0.29998	2.57882	7	X
K09V23N	16.9	0.15	K13B4	353.608	181.589	217.108	5.326	0.25160	2.60696	3	X
K09V27T	16.2	0.15	K13B4	329.957	183.924	241.240	11.647	0.17604	2.61294	2	X
K09V47G	17.7	0.15	K13B4	9.759	260.185	118.803	2.754	0.19089	2.58058	3	X
K09V56G	18.2	0.15	K13B4	350.246	355.791	43.790	2.420	0.19778	2.57020	3	X

K09V71F	16.4	0.15	K13B4	91.290	46.339	262.402	7.872	0.09938	2.61522	5	X
K09V75S	16.9	0.15	K13B4	16.271	351.284	25.788	5.524	0.30149	2.55216	3	X
K09W30L	16.1	0.15	K13B4	110.829	36.191	244.940	14.339	0.09640	2.63885	3	X
K09W33V	16.5	0.15	K13B4	331.888	123.377	240.041	9.145	0.06339	3.02769	3	X
K09W42M	16.5	0.15	K13B4	8.832	324.894	57.726	6.749	0.03879	2.70565	5	X
K09W75X	17.0	0.15	K13B4	310.427	248.031	225.092	8.891	0.13268	2.55687	5	X
K09W90S	17.1	0.15	K13B4	307.988	226.249	191.495	7.683	0.21868	2.77389	4	X
K09WG3V	17.3	0.15	K13B4	19.944	309.618	58.219	6.536	0.34481	2.55502	4	X
K09WJ2B	18.1	0.15	K13B4	322.858	36.824	44.098	2.499	0.27133	2.61585	4	X
K09WJ6Z	16.8	0.15	K13B4	31.809	90.891	267.562	12.835	0.17488	2.58004	3	X
K09WM4X	17.0	0.15	K13B4	13.601	297.659	78.154	14.995	0.16069	2.63164	3	X
K09WO9K	16.6	0.15	K13B4	9.627	145.047	258.034	11.920	0.17699	2.54473	3	X
K09WP3E	17.8	0.15	K13B4	358.223	105.801	283.678	11.939	0.54917	2.59262	3	X
K09WQ0D	16.3	0.15	K13B4	230.620	56.225	81.230	4.580	0.11952	3.15369	4	X
K09X01X	17.3	0.15	K13B4	30.444	302.033	119.383	5.999	0.12808	2.32156	4	X
K09Y00O	18.6	0.15	K13B4	70.690	1.795	266.360	32.012	0.56303	1.25268	3	X
K09Y23W	15.8	0.15	K13B4	42.833	255.139	96.197	17.928	0.16566	2.74825	4	X
K10A03Z	16.7	0.15	K13B4	346.008	118.010	314.584	10.730	0.18137	2.64362	6	X
K10A77F	16.0	0.15	K13B4	314.621	175.615	281.758	16.692	0.09791	2.76446	4	X
K10C55D	23.2	0.15	K13B4	132.351	279.255	326.853	5.932	0.20129	1.02367	3	X
K10EC5U	16.1	0.15	K13B4	257.157	13.990	137.796	18.523	0.22383	3.08711	3	X
K10F13G	15.5	0.15	K13B4	197.955	203.987	10.920	27.228	0.08438	3.15731	5	X
K10G06Y	19.3	0.15	K13B4	46.184	115.956	204.718	21.906	0.23439	1.28675	2	X
K10G62V	17.8	0.15	K13B4	74.774	245.887	41.264	36.699	0.03134	1.82283	2	S
K10G66B	16.1	0.15	K13B4	262.970	314.044	202.591	15.621	0.19739	3.10781	4	X
K10J00F	19.2	0.15	K13B4	292.675	260.432	221.173	43.836	0.30737	1.66559	3	X
K10L14J	17.8	0.15	K13B4	338.353	295.217	177.479	12.028	0.34193	1.62605	3	X
K10O23S	17.0	0.15	K13B4	288.107	206.856	81.222	13.720	0.49879	2.68869	4	X
K10P00D	17.3	0.15	K13B4	278.589	309.687	75.145	4.901	0.35124	2.54908	4	X
K10S13L	19.3	0.15	K13B4	340.753	266.514	196.165	3.041	0.41540	2.00462	3	X
K10T54N	19.2	0.15	K13B4	28.110	34.662	283.545	4.734	0.44474	2.10828	3	X
K10T75J	18.3	0.15	K13B4	64.153	85.728	190.416	7.000	0.08913	2.22598	5	X
K10TG2B	17.6	0.15	K13B4	357.886	179.916	171.593	6.848	0.19837	2.22409	5	X
K10U91G	18.7	0.15	K13B4	325.635	194.525	238.816	3.485	0.22717	2.14068	4	X
K10U93T	18.0	0.15	K13B4	253.485	161.431	316.603	4.969	0.17497	2.32374	3	X
K10U95X	19.3	0.15	K13B4	14.806	197.967	150.998	4.575	0.39368	2.12274	2	X
K10UA1G	13.3	0.15	K13B4	351.073	241.981	280.698	10.433	0.01792	5.25221	5	X
K10V01D	22.1	0.15	K13B4	23.652	296.380	26.303	5.996	0.54266	2.09052	2	X
K10V54D	14.1	0.15	K13B4	28.437	43.635	76.595	7.138	0.06752	5.19325	3	X
K10VA8D	14.0	0.15	K13B4	56.750	353.533	97.149	6.769	0.11358	5.19902	3	X
K10VG0R	16.9	0.15	K13B4	25.121	133.853	234.369	24.286	0.16359	1.99718	3	X
K10VK3J	17.7	0.15	K13B4	310.822	146.568	252.913	5.983	0.09839	2.28922	6	X
K10W39T	17.6	0.15	K13B4	112.855	20.720	242.628	4.127	0.10611	2.24892	3	S
K10W42P	18.2	0.15	K13B4	337.886	93.346	292.658	4.443	0.13854	2.27714	5	X
K10X37A	17.9	0.15	K13B4	229.615	177.876	330.369	2.565	0.13426	2.45780	5	X
K10X67Z	19.7	0.15	K13B4	343.733	169.019	280.314	11.841	0.49437	2.06015	2	X
K11B22U	18.2	0.15	K13B4	300.358	175.147	271.227	6.188	0.26751	2.35016	3	X
K11B37W	16.0	0.15	K13B4	224.956	192.788	341.809	13.037	0.10245	2.59360	5	X
K11B89L	17.0	0.15	K13B4	263.138	297.256	167.921	14.309	0.12904	2.66679	2	X
K11BC6W	18.3	0.15	K13B4	346.019	72.432	324.817	1.473	0.21436	2.39181	6	X
K11C02S	17.5	0.15	K13B4	306.738	149.130	313.740	24.834	0.14533	2.32204	4	X
K11C06C	18.3	0.15	K13B4	346.166	163.321	257.017	2.443	0.20903	2.25622	4	X
K11C32Y	16.6	0.15	K13B4	83.879	339.453	325.480	14.906	0.14009	2.56598	3	X
K11C37Y	17.6	0.15	K13B4	267.218	60.474	74.181	2.308	0.11740	2.39232	4	S
K11C41R	17.1	0.15	K13B4	58.002	16.938	283.994	5.092	0.03282	2.77899	5	X
K11C42R	13.1	0.15	K13B4	105.819	173.355	58.735	8.460	0.27983	3.50859	2	X
K11C67Y	17.4	0.15	K13B4	220.623	172.382	16.855	2.751	0.10996	2.45331	4	X
K11C74Z	17.4	0.15	K13B4	355.284	107.689	345.818	3.685	0.06933	2.17599	7	X

K11C75C	16.3	0.15	K13B4	153.430	277.657	328.289	13.801	0.09581	2.57112	5	X
K11C86H	18.6	0.15	K13B4	280.153	244.099	247.976	1.245	0.15481	2.36883	4	X
K11C90C	16.5	0.15	K13B4	17.396	357.191	317.270	8.994	0.08851	3.05791	4	X
K11C90Q	16.5	0.15	K13B4	65.308	325.713	307.194	10.187	0.12140	3.13354	3	X
K11C90Y	19.1	0.15	K13B4	285.617	240.274	243.215	3.885	0.18461	2.36674	3	X
K11CA9C	17.5	0.15	K13B4	160.881	272.620	319.710	10.205	0.14313	2.68273	4	X
K11D05M	16.7	0.15	K13B4	347.813	31.922	351.083	8.359	0.05849	2.74035	3	X
K11D10C	16.8	0.15	K13B4	243.374	298.593	175.017	10.341	0.07134	2.96919	4	X
K11D23C	16.8	0.15	K13B4	114.785	253.410	35.545	5.203	0.08502	2.71095	5	X
K11E06T	18.5	0.15	K13B4	298.704	194.106	290.020	1.825	0.17406	2.28888	4	X
K11E23U	16.3	0.15	K13B4	32.467	7.371	348.576	14.683	0.09503	2.58734	5	X
K11E53N	16.6	0.15	K13B4	343.918	5.822	53.445	12.199	0.14030	2.64747	4	X
K11F23G	17.3	0.15	K13B4	335.414	232.836	210.293	1.523	0.16057	2.34384	8	X
K11F44X	16.5	0.15	K13B4	18.726	342.614	29.007	6.301	0.05595	2.76061	6	X
K11FD2J	16.7	0.15	K13B4	248.736	173.315	354.746	27.688	0.15071	2.54069	4	X
K11FE1S	16.4	0.15	K13B4	220.854	235.356	317.325	11.301	0.11408	2.64149	5	X
K11FE5Q	17.9	0.15	K13B4	351.874	110.742	304.846	8.941	0.20507	2.31992	4	X
K11FF7P	16.2	0.15	K13B4	28.825	199.021	173.664	10.230	0.06437	2.67495	6	X
K11G04Y	16.1	0.15	K13B4	163.015	191.594	56.251	8.168	0.09502	2.70766	5	X
K11G31Q	17.3	0.15	K13B4	284.833	185.101	296.877	1.958	0.08217	2.62365	7	X
K11G63W	15.9	0.15	K13B4	161.641	344.681	231.866	15.422	0.16935	3.16744	4	X
K11G81J	16.4	0.15	K13B4	166.152	198.299	54.176	9.875	0.09787	2.78135	4	X
K11G82N	16.6	0.15	K13B4	198.992	152.344	50.154	10.006	0.07223	2.76841	4	S
K11H21L	16.8	0.15	K13B4	226.328	263.007	285.815	1.566	0.04774	2.75955	9	X
K11H62V	16.8	0.15	K13B4	248.662	315.896	224.075	4.812	0.17698	2.59425	6	X
K11H84F	15.9	0.15	K13B4	311.182	37.506	71.117	14.406	0.10134	2.69744	5	X
K11H91K	16.5	0.15	K13B4	82.655	264.107	27.567	15.621	0.01792	3.09303	3	S
K11K14O	16.6	0.15	K13B4	302.582	79.422	43.255	8.901	0.10445	2.66442	3	X
K11K45O	16.0	0.15	K13B4	341.620	8.250	88.073	12.418	0.14606	2.65985	4	X
K11K47E	16.1	0.15	K13B4	43.601	141.644	226.759	11.757	0.01558	3.02948	4	X
K11L05H	15.3	0.15	K13B4	206.051	105.351	85.921	23.679	0.10574	3.16834	4	X
K11Q00F	12.6	0.15	K13B4	65.583	47.000	281.892	23.835	0.03746	5.25223	6	X
K11Q03P	12.9	0.15	K13B4	52.071	44.446	294.750	19.001	0.09649	5.30046	4	X
K11Q42Q	13.9	0.15	K13B4	63.126	110.629	229.157	10.144	0.10884	5.26338	5	X
K11Ue2R	11.7	0.15	K13B4	357.796	294.310	221.467	24.617	0.78219	18.84857	4	X
K12A17M	18.0	0.15	K13B4	6.955	53.705	294.387	15.739	0.07851	1.92054	4	X
K12B01M	18.0	0.15	K13B4	219.730	9.913	35.764	8.907	0.39284	2.33058	3	X
K12BD4P	17.9	0.15	K13B4	23.627	196.361	157.361	22.921	0.07814	1.90335	3	X
K12C25T	17.0	0.15	K13B4	68.335	42.884	219.536	5.979	0.09028	2.34175	7	X
K12E14R	20.5	0.15	K13B4	358.899	14.740	33.951	6.866	0.36357	1.63755	2	X
K12F04G	17.9	0.15	K13B4	142.898	233.946	327.186	6.653	0.14813	2.33208	3	X
K12F32O	16.2	0.15	K13B4	59.953	141.738	166.818	18.169	0.31781	2.54141	5	X
K12F58Y	16.7	0.15	K13B4	123.687	34.550	170.580	14.211	0.11416	2.67186	5	X
K12G04Q	18.7	0.15	K13B4	166.363	137.725	59.848	1.110	0.05660	2.25806	3	X
K12G33L	18.3	0.15	K13B4	125.499	99.513	141.624	1.855	0.14781	2.40164	4	X
K12H00P	17.9	0.15	K13B4	293.774	74.134	48.867	21.069	0.07307	1.87020	4	X
K12H00V	17.8	0.15	K13B4	148.773	270.970	7.779	21.000	0.02608	1.88305	4	X
K12H05A	17.6	0.15	K13B4	93.545	240.767	52.428	9.419	0.24408	2.32531	6	X
K12H19U	16.8	0.15	K13B4	108.634	49.903	220.486	21.154	0.10108	2.39208	5	X
K12H38U	15.9	0.15	K13B4	45.488	293.436	55.812	28.087	0.27058	2.56686	3	X
K12H40O	16.2	0.15	K13B4	135.873	283.687	255.723	26.431	0.39111	2.64294	4	X
K12H67H	16.8	0.15	K13B4	69.816	234.365	76.282	12.660	0.20316	2.58256	4	X
K12H71F	17.8	0.15	K13B4	123.895	211.842	42.160	2.207	0.13316	2.38585	4	X
K12H73P	17.0	0.15	K13B4	87.906	94.332	161.864	7.795	0.16820	2.98512	3	X
K12H78X	17.2	0.15	K13B4	126.398	232.823	36.195	5.895	0.21366	2.31871	8	X
K12J18D	17.0	0.15	K13B4	60.305	237.760	40.233	4.171	0.15815	3.00440	4	X
K12J28T	16.3	0.15	K13B4	33.112	116.758	236.281	29.171	0.30320	2.61470	3	X
K12J58Z	17.8	0.15	K13B4	111.970	230.808	60.890	1.967	0.08820	2.12403	4	X

K12J66G	15.7	0.15	K13B4	59.623	288.016	49.973	6.425	0.25960	2.54714	8 X
K12K22L	18.1	0.15	K13B4	68.048	178.478	139.169	3.202	0.19097	2.46241	3 X
K12K45S	16.6	0.15	K13B4	116.734	114.783	150.337	7.769	0.17125	2.56053	2 S
K12L08G	16.3	0.15	K13B4	65.191	91.162	234.595	10.219	0.20030	2.70038	5 X
K12O02Y	15.8	0.15	K13B4	114.990	41.916	245.411	4.033	0.10497	3.13822	9 X
K12P00A	20.3	0.15	K13B4	319.263	14.688	170.498	11.250	0.70288	1.35794	2 S
K12P21Q	15.9	0.15	K13B4	351.615	121.120	311.568	17.564	0.19267	3.18229	5 X
K12P33S	15.7	0.15	K13B4	111.676	338.675	306.209	17.829	0.08095	3.16721	4 X
K12P36N	16.0	0.15	K13B4	108.674	68.797	223.513	4.330	0.12014	3.13840	5 X
K12S06K	13.3	0.15	K13B4	32.035	77.732	289.865	20.860	0.04450	5.12813	4 X
K12T00S	20.8	0.15	K13B4	182.480	21.016	190.921	16.459	0.11306	0.99064	2 X
K12T28X	13.7	0.15	K13B4	104.621	279.940	18.892	30.750	0.06978	5.20979	5 X
K12TA8K	16.1	0.15	K13B4	138.875	59.349	206.268	12.666	0.13698	3.09122	7 X
K12TP6S	14.1	0.15	K13B4	63.194	87.272	247.577	11.654	0.16404	5.19772	4 X
K12TW2J	17.8	0.15	K13B4	88.985	91.623	334.712	21.026	0.28308	2.27148	4 X
K12UE0M	14.0	0.15	K13B4	95.273	90.046	221.177	28.277	0.07408	5.16165	4 X
K12V85U	7.2	0.15	K13B4	307.784	264.212	252.582	15.041	0.30951	29.35853	2 W
K12W29J	16.2	0.15	K13B4	70.933	347.034	73.227	11.785	0.21818	3.13397	5 X
K12XB1V	13.4	0.15	K13B4	262.367	158.621	332.544	30.005	0.02468	5.20798	5 X
K12Y02X	16.6	0.15	K13B4	115.770	171.989	257.375	6.713	0.24109	2.54156	5 X
K13A90F	16.0	0.15	K13B4	17.381	33.940	160.672	20.545	0.18358	3.05886	5 X
K13B76O	20.4	0.15	K13B4	62.249	4.424	242.678	1.940	0.52010	1.70291	2 X
K13M05X	18.9	0.15	K13B4	33.675	52.593	250.441	6.611	0.44834	2.26975	2 X
K13O04W	15.9	0.15	K13B4	30.784	139.240	155.979	14.898	0.27377	3.16156	7 X
K13P20M	16.0	0.15	K13B4	17.533	37.198	330.822	31.533	0.14979	2.60349	4 X
K13P26L	16.4	0.15	K13B4	27.201	86.399	261.284	16.438	0.27867	2.61140	3 X
K13P73O	17.7	0.15	K13B4	31.852	349.845	332.577	7.229	0.13659	2.32231	2 X
K13Q38D	16.8	0.15	K13B4	40.744	356.838	291.121	13.787	0.24051	2.62783	2 X
K13Q42Y	16.3	0.15	K13B4	6.333	359.609	21.904	14.101	0.25347	2.61710	3 X
K13R18P	15.6	0.15	K13B4	339.345	216.004	210.736	14.719	0.23019	3.06051	6 X
K13S29X	18.0	0.15	K13B4	5.727	114.131	277.456	3.299	0.16404	2.24354	4 X
K13S45X	17.4	0.15	K13B4	15.570	115.101	222.776	7.906	0.20193	2.72924	3 S
K13S51E	16.6	0.15	K13B4	25.260	178.049	178.627	9.520	0.14248	2.73404	7 X
K13T43O	17.4	0.15	K13B4	25.549	153.930	205.585	7.116	0.15919	2.21132	5 X
K13T74R	13.2	0.15	K13B4	84.160	265.299	36.338	26.656	0.07664	5.26563	7 X

New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc C
K13N00W	22.3	0.15	K13B4	10.691	112.930	240.602	7.073	0.67808	2.80159	102 X
K13O00G	20.6	0.15	K13B4	22.932	53.157	269.243	13.303	0.55034	2.35475	88 X
K13O09M	18.4	0.15	K13B4	1.166	67.713	317.020	26.063	0.51960	2.60574	76 X
K13P26J	21.8	0.15	K13B4	16.740	118.022	210.865	6.989	0.58985	2.77121	97 X
K13P43R	23.4	0.15	K13B4	47.772	334.678	321.719	2.534	0.39933	1.66233	58 X
K13Q10J	19.5	0.15	K13B4	155.887	243.806	327.502	18.148	0.42519	0.95957	48 X
K13R21E	19.8	0.15	K13B4	17.711	56.027	293.766	6.118	0.50015	2.55535	43 X
K13R21L	23.7	0.15	K13B4	12.181	156.862	209.663	4.726	0.43327	2.02804	40 X
K13R36F	16.8	0.15	K13B4	330.726	181.205	240.852	28.426	0.72077	2.30008	42 X
K13R43M	19.9	0.15	K13B4	346.107	67.883	32.143	14.359	0.58395	2.11963	38 X
K13R73Z	20.9	0.15	K13B4	70.953	262.303	355.627	25.124	0.53410	1.36854	33 X
K13R74B	22.1	0.15	K13B4	5.539	257.012	128.831	3.525	0.52508	2.40466	33 X
K13R74H	21.0	0.15	K13B4	356.008	226.716	201.116	5.522	0.59442	2.28538	33 S
K13S00R	24.1	0.15	K13B4	359.619	43.571	0.210	7.473	0.31649	1.50618	27 X
K13S19K	18.7	0.15	K13B4	10.883	146.954	231.404	26.505	0.42892	2.24875	27 X
K13S19O	21.8	0.15	K13B4	16.695	344.945	0.696	12.907	0.49704	2.22957	23 X
K13S19S	21.1	0.15	K13B4	322.124	312.478	185.466	17.315	0.59562	1.18176	24 X
K13S19X	23.1	0.15	K13B4	33.724	329.515	1.292	27.857	0.35706	1.62639	18 X
K13S20L	24.5	0.15	K13B4	319.757	115.340	8.756	4.338	0.40278	1.08086	21 X
K13S20M	24.8	0.15	K13B4	262.782	182.599	341.768	3.975	0.27134	0.84689	13 X

K13S20N	23.1	0.15	K13B4	25.158	349.986	4.069	28.488	0.32916	1.52943	13	X
K13S21B	27.0	0.15	K13B4	7.095	205.047	186.268	0.810	0.23132	1.33706	22	X
K13S21E	23.9	0.15	K13B4	3.810	8.762	19.991	3.357	0.57143	2.48655	19	X
K13S24R	20.6	0.15	K13B4	37.201	332.288	342.995	16.662	0.36597	1.70903	22	X
K13S24U	24.4	0.15	K13B4	3.880	28.729	9.506	5.391	0.32865	1.46878	17	X
K13S24W	20.9	0.15	K13B4	17.637	323.545	347.369	6.150	0.65721	2.67358	17	X
K13S25C	18.9	0.15	K13B4	327.427	237.857	273.131	10.171	0.64812	1.60391	19	X
K13T00E	20.8	0.15	K13B4	0.669	190.599	203.819	19.570	0.57102	2.86484	13	X
K13T00K	23.7	0.15	K13B4	0.144	235.339	171.628	5.195	0.57406	2.48378	15	X
K13T00L	22.3	0.15	K13B4	351.029	61.867	14.856	5.882	0.45854	1.66699	17	X
K13T04C	22.6	0.15	K13B4	24.277	314.280	4.455	28.920	0.51844	2.05234	8	X
K13T04D	21.3	0.15	K13B4	8.339	354.526	28.074	7.800	0.40365	2.17948	14	X
K13T04K	23.6	0.15	K13B4	161.996	23.570	204.266	7.015	0.24693	0.93530	7	S
K13T04S	20.8	0.15	K13B4	0.565	186.165	217.400	2.630	0.36185	1.93068	13	X
K13T05H	17.3	0.15	K13B4	15.269	107.564	271.294	24.907	0.57966	2.61251	16	X
K13T05Q	19.9	0.15	K13B4	224.056	247.317	286.773	16.342	0.15505	0.77413	15	X
K13T05R	19.2	0.15	K13B4	122.477	277.860	344.904	46.706	0.12748	0.93150	16	X
K13T05T	26.3	0.15	K13B4	320.469	77.391	12.072	7.350	0.09293	1.05887	13	X
K13T05V	19.0	0.15	K13B4	4.195	69.762	351.274	18.794	0.25318	1.33482	15	X
K13T05X	23.0	0.15	K13B4	10.956	17.301	1.219	12.967	0.30147	1.66365	13	X
K13T05Y	24.0	0.15	K13B4	356.370	220.493	203.646	6.227	0.59999	2.50525	12	X
K13T06B	22.6	0.15	K13B4	155.422	201.846	22.642	14.360	0.48361	0.78545	12	X
K13T06C	23.4	0.15	K13B4	35.866	120.323	192.768	9.913	0.47686	1.64311	13	X
K13T06D	22.0	0.15	K13B4	2.108	22.503	11.517	30.074	0.47836	2.46484	13	X
K13T06E	21.8	0.15	K13B4	358.339	187.080	221.734	7.316	0.53768	2.43810	13	X
K13T06F	21.8	0.15	K13B4	118.812	39.212	202.639	22.382	0.34611	1.21484	8	X
K13T06G	26.6	0.15	K13B4	158.004	221.085	14.020	3.215	0.12615	0.93817	7	X
K13T69G	21.0	0.15	K13B4	0.125	31.763	9.952	8.110	0.60919	3.36960	12	X
K13T69H	24.2	0.15	K13B4	4.032	51.511	336.472	2.304	0.56214	2.46247	11	X
K13T69L	21.3	0.15	K13B4	1.896	187.587	198.227	35.276	0.52839	2.48148	13	X
K13T69O	25.8	0.15	K13B4	0.097	135.674	268.648	0.571	0.59938	2.57803	9	X
K13T80B	17.4	0.15	K13B4	348.617	17.811	59.028	12.730	0.54583	2.82245	8	X
K13TC7N	26.2	0.15	K13B4	201.435	2.254	198.844	13.450	0.09697	0.93491	3	X
K13TD2R	20.1	0.15	K13B4	27.532	330.013	35.415	31.935	0.36087	1.44903	7	X
K13TD5E	19.9	0.15	K13B4	22.702	102.839	182.522	6.038	0.75828	2.34978	6	X
K13TD5F	25.4	0.15	K13B4	2.344	197.532	197.124	12.881	0.55521	2.33667	4	X
K13TD5H	20.8	0.15	K13B4	15.632	266.493	87.015	6.755	0.44202	2.22045	4	X
K13TD5J	20.8	0.15	K13B4	23.472	276.730	27.920	15.966	0.63936	2.59006	5	X
K13TD5L	21.4	0.15	K13B4	0.593	198.728	198.421	15.753	0.51150	2.61490	5	X
K13TD5M	26.1	0.15	K13B4	5.929	357.097	21.485	4.223	0.56864	2.46447	4	X
K13TD5Q	24.9	0.15	K13B4	335.250	229.750	198.011	16.698	0.07988	1.10413	1	K
K13TD5R	23.2	0.15	K13B4	23.138	18.051	243.312	1.805	0.81143	2.24365	2	K
K13TD5S	21.6	0.15	K13B4	349.370	53.828	25.297	21.582	0.54669	2.47425	3	X
K13TD5T	21.8	0.15	K13B4	24.712	326.947	341.524	6.483	0.60478	2.15258	3	X
K13TD5U	24.0	0.15	K13B4	6.377	174.288	202.273	13.013	0.58909	2.49542	4	X
K13TD5V	19.5	0.15	K13B4	11.540	23.713	333.428	6.764	0.59295	2.44547	11	S
K13TD5W	20.2	0.15	K13B4	303.412	96.768	23.686	35.030	0.26278	1.44688	3	S
K13TD6C	19.3	0.15	K13B4	29.201	106.509	220.770	22.078	0.49009	2.22093	3	K
K13U00B	26.6	0.15	K13B4	270.656	314.230	209.659	3.226	0.31491	0.84693	4	X
K13U00C	21.4	0.15	K13B4	5.073	147.671	240.256	6.131	0.49088	2.37316	1	K
K13U00K	23.1	0.15	K13B4	4.438	124.944	266.025	7.265	0.38489	1.86633	1	K

New one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K13ED1Q	20.1	0.15	K1339	348.424	190.736	350.459	2.818	0.13198	2.19422	2	S
K13ED4T	18.0	0.15	K1339	24.612	139.044	25.498	1.395	0.15415	3.21207	29	S
K13EE2J	16.8	0.15	K1339	82.000	267.907	135.528	1.822	0.19516	2.91884	2	ES
K13EE7U	15.0	0.15	K1339	354.708	290.695	243.526	1.378	0.01841	5.18471	9	ES

K13P68T	19.2	0.15	K137R	13.605	122.193	173.004	5.696	0.19870	2.24060	7	S
K13Q02X	16.9	0.15	K137R	340.943	48.506	297.820	9.751	0.13774	2.96045	6	S
K13Q41P	18.4	0.15	K138G	37.496	327.321	321.482	9.484	0.09017	2.40528	7	S
K13Q45H	19.4	0.15	K138G	1.779	257.135	97.392	9.789	0.20003	2.19707	3	S
K13Q46H	17.8	0.15	K138G	4.913	66.343	258.184	10.595	0.30568	2.64974	3	S
K13Q51G	16.8	0.15	K138G	136.152	242.208	310.057	4.397	0.14115	2.68053	6	S
K13Q55J	17.0	0.15	K1395	0.837	350.262	344.984	16.600	0.19039	3.09039	30	S
K13Q68Y	16.6	0.15	K138G	302.619	231.601	173.448	10.935	0.10478	3.11582	18	S
K13Q82B	18.6	0.15	K138G	269.686	157.251	279.592	6.567	0.11639	2.28860	6	S
K13Q93A	17.2	0.15	K138G	351.002	17.319	327.381	5.399	0.09502	2.65962	14	S
K13R03A	16.8	0.15	K139P	355.962	14.664	348.588	10.263	0.10382	3.16434	48	X
K13R12B	17.6	0.15	K138G	338.437	140.042	220.139	3.211	0.10500	2.81536	7	S
K13R26L	17.1	0.15	K139P	20.357	329.028	359.980	14.714	0.18614	2.65142	45	X
K13R31R	16.9	0.15	K1395	17.392	0.617	332.918	14.004	0.15988	2.61227	3	S
K13R34R	17.5	0.15	K1395	288.192	195.989	238.117	5.546	0.17019	2.86019	5	S
K13R34Z	19.3	0.15	K1395	334.426	80.152	302.354	6.963	0.25457	2.47977	3	S
K13R35F	16.7	0.15	K1395	12.212	34.063	323.578	13.253	0.23914	2.46306	3	S
K13R35L	16.0	0.15	K1395	349.939	223.104	170.772	20.452	0.23673	3.04100	2	S
K13R42Y	19.0	0.15	K1395	341.434	346.500	29.970	8.817	0.19453	2.07838	2	ES
K13R47Z	16.8	0.15	K1395	285.324	265.702	184.107	3.566	0.13161	2.73459	4	ES
K13R49E	16.1	0.15	K1395	321.100	64.282	344.825	10.341	0.19717	3.13123	4	S
K13R50M	19.1	0.15	K1395	358.483	48.378	305.210	5.762	0.12817	2.28960	24	S
K13R53D	17.2	0.15	K1395	16.353	181.835	149.624	12.914	0.12981	2.65389	4	S
K13R54Q	16.8	0.15	K1395	342.876	171.845	189.613	12.670	0.12944	3.17429	5	S
K13R54W	17.1	0.15	K1395	64.344	70.479	191.219	12.955	0.11508	3.08852	5	S
K13R54Z	17.8	0.15	K1395	66.942	19.266	238.417	5.956	0.13809	2.44093	5	S
K13R55A	17.4	0.15	K1395	0.043	129.682	209.719	8.004	0.12567	3.00796	5	S
K13R55B	17.7	0.15	K1395	318.418	96.768	295.884	9.306	0.12565	3.01801	5	S
K13R57G	15.5	0.15	K139P	22.137	130.503	194.660	9.191	0.18689	3.97175	39	X
K13R58P	16.6	0.15	K1395	13.782	93.970	238.343	4.003	0.19345	3.20998	10	S
K13R63T	17.9	0.15	K1395	341.924	11.401	0.725	5.550	0.11933	2.36881	14	S
K13R64F	16.6	0.15	K1395	275.181	272.798	170.218	11.767	0.07255	3.10536	12	S
K13R66E	17.8	0.15	K1395	1.298	6.788	341.736	8.147	0.10955	3.04040	11	S
K13R67S	17.3	0.15	K1395	1.874	158.820	188.931	9.053	0.11518	3.01208	12	S
K13R74O	16.9	0.15	K1395	345.608	98.290	257.457	6.302	0.05744	3.09004	5	S
K13R74P	19.4	0.15	K1395	9.551	133.483	191.922	9.055	0.19868	2.24902	5	S
K13R75U	15.7	0.15	K139P	67.646	287.260	347.858	4.443	0.11248	3.19186	26	S
K13R77G	17.9	0.15	K1395	6.625	348.844	351.101	3.952	0.16928	3.14369	12	S
K13R77O	16.0	0.15	K1395	240.125	303.836	183.178	11.348	0.08039	3.15925	5	ES
K13R78X	16.6	0.15	K1395	12.295	333.326	2.866	12.053	0.07250	3.05891	11	S
K13R89R	16.6	0.15	K1395	340.259	118.402	267.826	2.672	0.10236	2.74038	9	S
K13R95Q	16.6	0.15	K1395	313.193	314.145	115.264	5.953	0.23055	3.21592	5	S
K13S00G	16.9	0.15	K1395	47.839	323.200	307.622	11.283	0.22401	2.67497	2	S
K13S11K	17.2	0.15	K139P	8.669	345.725	1.079	9.285	0.16975	2.69783	43	X
K13S14L	18.6	0.15	K1395	15.800	355.881	331.701	1.236	0.17865	2.13366	2	S
K13S14N	18.5	0.15	K139P	28.666	316.839	356.737	7.683	0.23379	2.29544	46	X
K13S14Q	17.2	0.15	K1395	309.428	84.860	353.262	8.561	0.30844	2.91971	2	ES
K13S18Z	17.4	0.15	K1395	348.926	8.841	6.614	14.212	0.08925	2.83375	2	S
K13S21K	16.5	0.15	K139P	19.510	8.564	330.090	3.105	0.08398	2.81711	7	S
K13S22C	18.2	0.15	K139P	333.615	43.240	2.395	12.916	0.27743	2.65705	43	X
K13S29B	16.6	0.15	K139P	19.873	146.578	187.302	11.021	0.12471	2.91868	6	S
K13S32A	16.2	0.15	K139P	7.547	346.330	1.726	17.784	0.20526	3.17179	46	X
K13S36J	18.0	0.15	K139P	52.212	311.705	346.531	2.788	0.09287	2.36373	7	S
K13S42C	16.0	0.15	K139P	39.973	171.376	144.701	9.791	0.10328	3.08651	9	S
K13S49G	18.2	0.15	K139P	339.546	349.527	62.802	4.892	0.19753	2.42585	17	S
K13S49J	18.2	0.15	K139P	357.404	326.367	57.082	4.438	0.25866	2.33902	9	S
K13S50K	15.6	0.15	K139P	329.968	42.440	34.487	10.430	0.10794	3.06489	9	S
K13S56S	16.6	0.15	K139P	357.524	286.910	85.516	4.430	0.09965	2.76181	12	S

K13S61Y	16.8	0.15	K1395	310.045	48.680	1.487	2.769	0.04155	2.79692	20	S
K13S64G	17.4	0.15	K139P	2.053	165.096	200.475	2.740	0.19572	2.85968	10	S
K13S66U	18.6	0.15	K139P	338.730	43.357	350.463	4.464	0.20157	2.34207	13	S
K13S69C	17.7	0.15	K139P	354.457	2.240	6.206	12.467	0.13582	3.06402	14	S
K13S73F	17.1	0.15	K139P	9.716	161.979	183.529	13.932	0.14615	3.12627	7	S
K13S74F	17.2	0.15	K139P	207.936	336.201	180.273	5.625	0.07913	2.25058	13	S
K13S74V	18.0	0.15	K139P	316.141	71.797	345.284	2.460	0.15020	2.28687	48	X
K13S75H	16.2	0.15	K1395	326.379	15.719	28.882	10.311	0.10435	3.15860	16	S
K13T08S	17.1	0.15	K139P	47.824	302.091	356.953	13.219	0.14343	2.59273	6	S
K13T22B	17.2	0.15	K139P	2.624	337.801	29.534	7.028	0.07493	2.75928	11	S
K13T22M	18.9	0.15	K139P	180.268	173.881	14.430	20.989	0.04849	1.90077	11	S
K13T38X	16.3	0.15	K139P	9.231	330.551	29.375	9.760	0.15781	2.78935	15	S
K13T39L	16.8	0.15	K139P	26.192	138.049	204.616	9.919	0.22078	3.22108	5	S
K13T40D	17.6	0.15	K139P	5.488	356.823	19.358	3.757	0.09638	2.81263	5	S
K13T42L	18.7	0.15	K139P	358.385	5.547	358.363	21.250	0.21891	2.25133	4	S
K13T43E	17.0	0.15	K139P	83.516	271.803	15.122	8.405	0.11504	2.52767	4	S
K13T43F	17.4	0.15	K139P	293.793	114.366	350.962	3.209	0.18662	2.41489	4	S
K13T43H	17.4	0.15	K139P	57.814	291.508	13.015	12.331	0.16318	2.63564	4	S
K13T43N	18.0	0.15	K139P	354.327	9.590	18.895	12.462	0.18391	2.54792	4	S
K13T44A	16.8	0.15	K139P	75.666	283.952	2.638	3.880	0.14884	2.54481	4	S
K13T46V	18.2	0.15	K1395	168.184	188.279	15.471	5.887	0.08810	2.27757	32	S
K13T46X	13.7	0.15	K139P	212.662	158.874	23.308	10.448	0.12716	4.91611	4	ES
K13T49F	16.0	0.15	K139P	321.443	255.478	177.997	5.246	0.14937	3.21599	8	S
K13T51Y	14.8	0.15	K139P	53.916	63.215	225.039	2.505	0.25145	3.91494	3	S
K13T52B	17.3	0.15	K139P	306.731	192.671	249.588	14.817	0.17415	2.97741	3	S
K13T52C	17.6	0.15	K139P	353.075	169.696	211.300	32.290	0.30156	3.21335	3	S
K13T52D	16.7	0.15	K139P	39.844	60.822	252.895	14.565	0.19793	3.14382	3	S
K13T52E	16.8	0.15	K139P	48.645	347.313	324.999	16.301	0.12898	2.98929	3	S
K13T52H	17.6	0.15	K139P	25.371	341.958	5.677	14.881	0.15138	2.43069	4	S
K13T56S	17.3	0.15	K139P	358.416	24.011	356.261	11.168	0.11559	2.57856	7	S
K13T57E	16.1	0.15	K139P	8.228	152.041	216.591	15.534	0.07567	3.06632	3	S
K13T58S	16.3	0.15	K139P	267.089	240.681	238.038	8.021	0.05798	3.16923	3	S
K13T64S	16.1	0.15	K139P	10.625	158.782	203.401	17.240	0.16945	3.17086	7	S
K13T65K	16.0	0.15	K139P	28.309	349.450	352.823	5.599	0.08253	3.09163	3	S
K13T65L	18.1	0.15	K139P	339.732	40.079	359.113	4.595	0.15094	2.18507	3	S
K13T67Q	16.5	0.15	K139P	95.496	263.337	327.301	19.105	0.19731	2.74333	5	ES
K13T68O	19.3	0.15	K139P	339.971	155.593	241.865	1.985	0.13728	2.18083	2	ES
K13T68P	18.9	0.15	K139P	351.295	162.136	219.667	3.497	0.09316	2.12741	2	S
K13T70F	17.0	0.15	K139P	348.307	201.600	182.259	3.307	0.08405	2.82037	6	S
K13T70W	17.5	0.15	K139P	8.197	344.139	12.503	12.394	0.17154	2.62738	6	S
K13T72K	17.2	0.15	K139P	322.990	113.578	308.084	1.480	0.03660	2.69869	4	X
K13T76P	18.4	0.15	K139P	24.996	265.957	68.236	12.792	0.27605	2.59067	5	S
K13T85H	15.0	0.15	K139P	39.063	338.387	337.367	18.166	0.10456	3.08008	10	S
K13T85R	18.3	0.15	K139P	356.536	188.516	185.816	5.881	0.13429	2.71409	8	S
K13T97Z	17.3	0.15	K139P	1.478	311.566	44.869	0.297	0.12980	3.08832	13	S
K13T99C	17.0	0.15	K139P	356.373	210.173	182.667	8.838	0.11729	2.70800	6	S
K13TA0C	16.6	0.15	K139P	314.094	245.253	185.533	7.485	0.20136	2.76050	7	S
K13TA0P	17.7	0.15	K139P	333.325	36.778	14.108	1.264	0.13173	3.05253	7	ES
K13TA2Q	17.3	0.15	K139P	316.835	61.347	12.094	3.538	0.09663	2.74904	10	S
K13TA3X	18.1	0.15	K139P	27.622	354.413	343.895	2.329	0.19302	2.39789	4	X
K13TA4R	17.7	0.15	K139P	24.869	123.751	205.514	18.915	0.32119	2.74544	4	X
K13TA4S	16.4	0.15	K139P	356.628	11.757	14.738	9.630	0.02452	3.14842	9	X
K13TA4T	17.3	0.15	K139P	12.591	351.688	11.366	7.779	0.15108	2.77816	9	X
K13TA4U	18.4	0.15	K139P	334.412	42.960	9.990	6.819	0.16405	2.26508	4	X
K13TA4V	18.5	0.15	K139P	7.039	65.299	303.281	1.441	0.14334	2.34165	4	X
K13TA4W	16.9	0.15	K139P	325.399	68.400	9.143	6.872	0.25340	3.10000	4	X
K13TA4X	18.8	0.15	K139P	19.226	134.527	214.496	4.246	0.18118	2.24089	9	X
K13TA5B	17.7	0.15	K139P	12.248	342.786	18.293	16.484	0.21966	2.90107	4	X

K13TA5W	16.5	0.15	K139P	301.700	235.649	211.959	5.416	0.08339	3.02420	11ES
K13TA8H	18.0	0.15	K139P	348.808	274.501	122.907	2.327	0.18779	2.44514	12 S
K13TB4M	16.1	0.15	K139P	12.753	29.350	352.500	2.761	0.10139	3.14358	12 S
K13TD2W	18.4	0.15	K139P	13.785	315.831	35.117	3.245	0.19601	2.37740	5 S
K13TD2Y	18.4	0.15	K139P	346.468	25.091	4.422	1.481	0.19898	2.34209	7 S
K13TD2Z	18.0	0.15	K139P	50.327	55.152	239.988	2.895	0.18419	2.30709	6 S
K13TD3H	18.0	0.15	K139P	6.373	172.011	190.724	17.029	0.21689	2.57263	4 S
K13TD3S	17.2	0.15	K139P	358.527	223.276	153.325	1.691	0.23487	2.89549	4 S
K13TD3V	15.8	0.15	K139P	268.430	332.670	153.822	1.378	0.15839	3.11141	4 S
K13TD4F	16.4	0.15	K139P	343.549	15.705	20.616	25.334	0.07985	2.91503	2ES
K13TD4O	17.5	0.15	K139P	6.205	250.807	116.322	3.081	0.28897	2.38059	2 S
K13U00M	17.4	0.15	K13AF	240.551	259.176	254.340	19.559	0.05894	1.97391	2EX
K13U00N	17.1	0.15	K13AF	8.231	136.611	236.697	31.590	0.28271	2.59456	1 X
K13U00O	17.4	0.15	K13AF	44.913	78.961	261.893	17.514	0.09099	1.88904	3 X

New observations:

K05R06Q	tC2013	10	19.33808	05	55	34.23	+24	10	44.3	18.0	RoEU015926
K05R06Q	tC2013	10	19.35476	05	55	38.66	+24	11	47.4	18.0	RoEU015926
K05R06Q	tC2013	10	19.37347	05	55	43.70	+24	12	58.4	17.5	RoEU015926
K07X09Y	C2013	07	14.16145	16	12	00.96	+09	43	58.6	18.2	RrEU015Y00
K07X09Y	C2013	07	14.16228	16	12	00.44	+09	44	04.5	18.2	RrEU015Y00
K07X09Y	C2013	07	14.16309	16	11	59.96	+09	44	10.9	18.2	RrEU015Y00
K08F06T	tC2013	10	19.47147	06	59	23.20	+29	05	27.0	18.8	RoEU015926
K08F06T	tC2013	10	19.48801	06	59	27.17	+29	05	44.9	18.5	RoEU015926
K08F06T	tC2013	10	19.50459	06	59	31.17	+29	06	02.6	18.9	RoEU015926
K08H03O	C2013	10	20.11277	19	53	48.82	-05	39	15.5	18.9	RoEU015G48
K08H03O	C2013	10	20.11388	19	53	49.35	-05	39	17.1	19.1	RoEU015G48
K08H03O	C2013	10	20.11440	19	53	49.61	-05	39	17.7	19.2	RoEU015G48
K08H03O	C2013	10	20.11493	19	53	49.88	-05	39	18.3	19.2	RoEU015G48
K08H03O	!C2013	10	20.21159	19	54	38.50	-05	41	11.8	17.0	RtEU015673
K08H03O	!C2013	10	20.21260	19	54	38.99	-05	41	13.7	17.0	RtEU015673
K10G06Y	C2013	10	20.11723	21	01	09.28	+00	09	34.4	18.3	RoEU015G48
K10G06Y	C2013	10	20.11778	21	01	09.55	+00	09	31.3	18.7	RoEU015G48
K10G06Y	C2013	10	20.11882	21	01	10.09	+00	09	24.8	18.9	RoEU015G48
K10U95X	C2013	10	20.15993	23	04	24.93	-16	31	36.4	19.0	RoEU015926
K10U95X	C2013	10	20.17128	23	04	26.27	-16	31	29.0	18.9	RoEU015926
K10U95X	C2013	10	20.18376	23	04	27.75	-16	31	21.2	18.9	RoEU015926
K13N00W	]C2013	10	12.46228	08	10	33.46	+33	22	46.3	21.7	RoEU015695
K13N00W	]C2013	10	12.46622	08	10	32.83	+33	22	38.8	21.8	RoEU015695
K13N00W	]C2013	10	12.47017	08	10	32.14	+33	22	30.8	21.9	RoEU015695
K13N00W	]C2013	10	12.47412	08	10	31.48	+33	22	22.8	21.9	RoEU015695
K13O00G	KC2013	10	10.12406900	50	29.30	+56	41	49.5			uEU015H21
K13O00G	KC2013	10	10.13394300	50	29.73	+56	41	28.7	20.8		VuEU015H21
K13O00G	KC2013	10	10.14248800	50	30.02	+56	41	09.9	20.7		VuEU015H21
K13R21L	KC2013	10	10.15278400	52	51.04	+13	59	10.0			uEU015H21
K13R21L	KC2013	10	10.16246900	52	52.92	+13	58	59.2	20.7		VuEU015H21
K13R21L	KC2013	10	10.17196500	52	54.75	+13	58	49.1	20.7		VuEU015H21
K13S00R	C2013	10	20.19702	23	30	14.33	+60	05	54.8	20.8	RoEU015926
K13S00R	C2013	10	20.20153	23	30	13.75	+60	06	30.9	20.6	RoEU015926
K13S00R	C2013	10	20.20604	23	30	13.20	+60	07	07.1	20.4	RoEU015926
K13S24R	C2013	10	20.15148	22	16	14.66	+26	09	55.6	20.5	RoEU015926
K13S24R	C2013	10	20.16286	22	16	15.63	+26	10	03.7	20.2	RoEU015926
K13S24R	C2013	10	20.17423	22	16	16.57	+26	10	11.8	20.4	RoEU015926
K13T04S	KC2013	10	10.32785403	08	52.94	+20	19	16.8	20.0		VuEU015H21
K13T04S	KC2013	10	10.33445603	08	53.60	+20	19	16.3	19.9		VuEU015H21
K13T04S	KC2013	10	10.34073403	08	54.24	+20	19	16.1	19.9		VuEU015H21
K13T05X	KC2013	10	10.09748600	31	23.19	+30	10	10.6	21.1		VuEU015H21
K13T05X	KC2013	10	10.10554600	31	22.32	+30	10	44.2	20.7		VuEU015H21

K13T05X	KC2013	10	10.11358900	31	21.42	+30	11	17.4	20.5	VuEU015H21	
K13T05Z	KC2013	10	10.26348901	37	27.48	+17	07	47.4	20.9	VuEU015H21	
K13T05Z	KC2013	10	10.26767801	37	28.49	+17	07	32.6	20.5	VuEU015H21	
K13T05Z	KC2013	10	10.27234601	37	29.65	+17	07	16.5	20.2	VuEU015H21	
K13T05Z	KC2013	10	12.23678101	45	45.13	+15	13	03.9	20.7	VuEU015H21	
K13T05Z	KC2013	10	12.24339501	45	46.64	+15	12	41.5	20.5	VuEU015H21	
K13T05Z	KC2013	10	12.24999601	45	48.11	+15	12	18.7	20.8	VuEU015H21	
K13T06B	KC2013	10	10.34632103	23	49.17	+08	33	29.9	19.1	VuEU015H21	
K13T06B	KC2013	10	10.35056003	23	44.22	+08	33	43.5	19.1	VuEU015H21	
K13T06B	KC2013	10	10.35458303	23	39.52	+08	33	56.5	19.2	VuEU015H21	
K13T06D	KC2013	10	10.23034701	12	11.15	+28	04	47.4	21.2	VuEU015H21	
K13T06D	KC2013	10	10.23791301	12	09.38	+28	05	28.1	21.6	VuEU015H21	
K13T06D	KC2013	10	10.24628301	12	07.37	+28	06	12.6	21.2	VuEU015H21	
K13T06E	KC2013	10	10.21366601	04	33.79	+26	23	00.6	19.7	VuEU015H21	
K13T06E	KC2013	10	10.21765301	04	34.50	+26	22	59.4	19.9	VuEU015H21	
K13T06E	KC2013	10	10.22335301	04	35.51	+26	22	57.7	19.8	VuEU015H21	
K13T06F	KC2013	10	10.18230300	50	16.32	+14	04	56.7	21.2	VuEU015H21	
K13T06F	KC2013	10	10.19376100	50	15.00	+14	04	17.4	21.3	VuEU015H21	
K13T06F	KC2013	10	10.20531900	50	13.71	+14	03	37.8	21.2	VuEU015H21	
K13T06G	KC2013	10	10.07243123	01	46.09	-02	10	45.1	20.5	VuEU015H21	
K13T06G	KC2013	10	10.08049223	01	44.39	-02	10	03.3	20.2	VuEU015H21	
K13T06G	KC2013	10	10.08851523	01	42.69	-02	09	21.7	20.2	VuEU015H21	
K13T69H	KC2013	10	07.13937	01	07	03.27	+25	14	38.7	19.9	RuEU015G48
K13T69H	KC2013	10	07.14308	01	07	04.89	+25	14	57.9	19.4	RuEU015G48
K13T69H	KC2013	10	07.14679	01	07	06.55	+25	15	18.6	19.4	RuEU015G48
K13T69H	KC2013	10	10.25249501	32	33.50	+29	20	22.1	20.3	VuEU015H21	
K13T69H	KC2013	10	10.25592301	32	35.17	+29	20	37.8	20.0	VuEU015H21	
K13T69H	KC2013	10	10.26054501	32	37.39	+29	20	58.8	20.0	VuEU015H21	
K13T69L	C2013	10	20.18147	22	56	15.94	-08	35	48.3	19.8	RoEU015926
K13T69L	C2013	10	20.18606	22	56	17.11	-08	36	29.9	19.7	RoEU015926
K13T69L	C2013	10	20.18998	22	56	18.08	-08	37	05.9	19.5	RoEU015926
K13TD5V	4C2013	10	19.13491	05	40	00.18	+64	27	10.3	17.7	VqEU015G40
K13TD5V	4C2013	10	19.13568	05	40	00.01	+64	27	08.5	17.6	VqEU015G40
K13TD5V	4C2013	10	19.14238	05	39	58.90	+64	26	56.6	17.7	VqEU015G40
K13TD5V	4C2013	10	19.14843	05	39	57.92	+64	26	45.9	17.6	VqEU015G40
K13TD5V	4C2013	10	19.14920	05	39	57.76	+64	26	43.4	17.3	VqEU015G40
K13TD5V	4C2013	10	19.15541	05	39	56.71	+64	26	32.8	17.6	VqEU015G40
K13TD5V	C2013	10	19.17628	05	39	58.08	+64	24	58.5	17.6	rEU015718
K13TD5V	C2013	10	19.17910	05	39	57.76	+64	24	53.2	17.3	rEU015718
K13TD5V	C2013	10	19.18474	05	39	57.03	+64	24	43.5	17.7	rEU015718
K13TD5V	C2013	10	19.18728	05	39	56.75	+64	24	39.5	17.3	rEU015718
K13TD5V	C2013	10	19.27706	05	39	45.50	+64	22	14.3	17.1	RtEU015H01
K13TD5V	C2013	10	19.28160	05	39	45.11	+64	21	55.0	17.4	RqEU015G58
K13TD5V	IC2013	10	19.28431	05	39	44.48	+64	22	03.7	17.6	RqEU015H15
K13TD5V	C2013	10	19.29282	05	39	43.62	+64	21	36.4	17.3	RqEU015G58
K13TD5V	C2013	10	19.29540	05	39	42.83	+64	21	43.4	17.1	RtEU015H01
K13TD5V	C2013	10	19.30231	05	39	42.32	+64	21	20.6	17.4	RqEU015G58
K13TD5V	C2013	10	19.30553	05	39	41.88	+64	21	14.9	17.6	RqEU015G58
K13TD5V	C2013	10	19.31531	05	39	40.50	+64	20	58.5	17.4	RqEU015G58
K13TD5V	C2013	10	19.32048	05	39	39.05	+64	21	00.7	17.3	RtEU015H01
K13TD5V	C2013	10	19.32344	05	39	38.54	+64	20	57.8	17.6	RqEU015H15
K13TD5V	C2013	10	19.32404	05	39	39.24	+64	20	43.8	17.4	RqEU015G58
K13TD5V	C2013	10	19.34631	05	39	34.90	+64	20	16.9	17.2	RqEU015H15
K13TD5V	C2013	10	19.34735	05	39	34.85	+64	20	14.2	17.2	RtEU015H01
K13TD5V	C2013	10	19.35927	05	39	32.94	+64	19	53.4	17.3	RtEU015H01
K13TD5V	C2013	10	19.36766	05	39	31.50	+64	19	39.6	17.8	RqEU015H15
K13TD5V	8C2013	10	19.37837	05	39	29.72	+64	19	21.2	17.4	RtEU015H06
K13TD5V	8C2013	10	19.38003	05	39	29.46	+64	19	18.0	17.1	RtEU015H06

K13TD5V	8C2013	10	19.38170	05	39	29.19	+64	19	14.6	17.1	RtEU015H06
K13TD5V	8C2013	10	19.38336	05	39	28.90	+64	19	11.9	17.1	RtEU015H06
K13TD5V	8C2013	10	19.38502	05	39	28.70	+64	19	09.0	17.1	RtEU015H06
K13TD5V	8C2013	10	19.38669	05	39	28.38	+64	19	06.0	17.2	RtEU015H06
K13TD5V	C2013	10	19.39050	05	39	27.71	+64	18	58.6	17.5	RqEU015H15
K13TD5V	KC2013	10	19.41308	05	39	22.80	+64	18	13.9	17.9	RqEU015H36
K13TD5V	C2013	10	19.41329	05	39	23.93	+64	18	17.4	17.5	RqEU015H15
K13TD5V	KC2013	10	19.41622	05	39	22.27	+64	18	07.9	17.6	RqEU015H36
K13TD5V	KC2013	10	19.42250	05	39	21.23	+64	17	56.4	17.4	RqEU015H36
K13TD5V	IC2013	10	19.46480	05	39	15.38	+64	16	40.7	17.6	RqEU015H15
K13TD5V	C2013	10	19.48762	05	39	11.44	+64	15	56.5	17.3	RqEU015H15
K13TD5V	KC2013	10	19.92371	05	38	24.10	+64	01	43.2	18.1	VqEU015C47
K13TD5V	KC2013	10	19.93302	05	38	22.77	+64	01	28.2	17.4	VqEU015C47
K13TD5V	KC2013	10	19.95235	05	38	20.04	+64	00	55.8	17.5	VqEU015C47
K13U00B	C2013	10	19.07963	21	00	54.97	+53	28	01.7	16.6	RoEU015926
K13U00B	C2013	10	19.08046	21	00	36.67	+53	26	59.1	16.7	RoEU015926
K13U00B	C2013	10	19.08128	21	00	18.43	+53	25	55.0	16.6	RoEU015926
K13U00B	C2013	10	19.16074	20	31	35.00	+51	25	07.5	16.8	RoEU015926
K13U00B	C2013	10	19.16155	20	31	17.73	+51	23	40.6	16.4	RoEU015926
K13U00B	C2013	10	19.16238	20	31	00.40	+51	22	14.2	17.0	RoEU015926
K13U00B	KC2013	10	19.76336518	08	07.91	+26	30	33.0			qEU015J95
K13U00B	KC2013	10	19.77144318	06	50.70	+26	09	19.1	18.3	RqEU015J95	
K13U00B	KC2013	10	19.77556518	06	11.68	+25	58	30.2	18.3	RqEU015J95	
K13U00B	KC2013	10	19.77962018	05	33.61	+25	47	53.3	18.6	RqEU015J95	
K13U00B	KC2013	10	19.78771018	04	18.46	+25	26	46.4	18.3	RqEU015J95	
K13U00B	KC2013	10	19.79177518	03	41.07	+25	16	12.5	18.5	RqEU015J95	
K13U00B	KC2013	10	19.79587818	03	03.69	+25	05	32.3	18.9	RqEU015J95	
K13U00B	KC2013	10	19.80407618	01	49.72	+24	44	19.0	18.3	RqEU015J95	
K13U00B	KC2013	10	19.81725917	59	53.14	+24	10	24.6	18.3	RqEU015J95	
K13U00B	KC2013	10	19.82129217	59	18.10	+24	00	05.3	18.6	RqEU015J95	
K13U00B	KC2013	10	19.85029117	55	13.37	+22	46	37.8			qEU015J95
39565	C2013	09	10.08907	19	02	22.37	-42	05	34.1	16.5	RrEU015Y00
39565	C2013	09	10.09062	19	02	22.69	-42	05	31.3	16.2	RrEU015Y00
39565	C2013	09	10.09218	19	02	22.96	-42	05	27.6	16.6	RrEU015Y00
G2149	C2013	10	10.82432	23	34	10.26	+18	54	21.5	19.5	VqEU015D00
G2149	C2013	10	10.83542	23	34	09.71	+18	54	14.1	20.2	VqEU015D00
G2149	C2013	10	10.84652	23	34	08.94	+18	54	06.1	20.0	VqEU015D00
G2149	C2013	10	10.85763	23	34	08.24	+18	53	59.0	20.6	VqEU015D00
G2980	KC2013	10	19.41128	03	34	35.64	-22	00	13.7	18.5	RqEU015448
G2980	KC2013	10	19.41682	03	34	35.37	-22	00	25.7	18.2	RqEU015448
G2980	KC2013	10	19.42208	03	34	35.09	-22	00	36.7	18.3	RqEU015448
G2980	KC2013	10	19.42689	03	34	34.87	-22	00	47.6	18.5	RqEU015448
P0620	KC2013	10	19.10482	20	38	29.76	-15	57	44.2	16.6	RqEU015448
P0620	KC2013	10	19.10881	20	38	29.28	-15	58	04.1	17.1	RqEU015448
P0620	KC2013	10	19.11244	20	38	28.88	-15	58	21.6	17.0	RqEU015448
P0620	KC2013	10	19.11680	20	38	28.36	-15	58	43.4	17.3	RqEU015448
P0620	KC2013	10	19.12007	20	38	27.98	-15	58	59.5	16.9	RqEU015448
Z0751	KC2013	10	19.12936	22	12	23.88	-15	35	53.6	17.7	RqEU015448
Z0751	KC2013	10	19.13280	22	12	25.83	-15	35	40.7	17.7	RqEU015448
Z0751	KC2013	10	19.13658	22	12	27.96	-15	35	26.9	17.4	RqEU015448
Z0751	KC2013	10	19.14048	22	12	30.19	-15	35	12.5	17.3	RqEU015448
Z0751	KC2013	10	19.14467	22	12	32.53	-15	34	57.0	17.5	RqEU015448
Z0751	C2013	10	20.14175	22	22	04.56	-14	35	26.9	18.0	RoEU015G48
Z0751	C2013	10	20.14227	22	22	04.85	-14	35	25.5	17.9	RoEU015G48
Z0751	C2013	10	20.14280	22	22	05.13	-14	35	23.7	18.1	RoEU015G48
Z1278	KC2013	10	19.31038	01	18	25.70	-08	25	35.8	17.3	RqEU015448
Z1278	KC2013	10	19.31614	01	18	24.27	-08	25	25.9	19.1	RqEU015448
Z1278	KC2013	10	19.32359	01	18	22.35	-08	25	11.3	19.0	RqEU015448

b4038	C2013	10	16.44921	03	56	30.71	+20	15	42.6	20.2	VqEU015G96
b4038	C2013	10	16.45442	03	56	30.37	+20	15	41.4	20.3	VqEU015G96
b4038	C2013	10	16.45965	03	56	30.11	+20	15	40.3	20.6	VqEU015G96
b4038	C2013	10	16.46487	03	56	29.66	+20	15	39.2	20.1	VqEU015G96
b5103	KC2013	10	14.36802205	39	53.05	+20	03	40.7		20.3	VuEU015H21
b5103	KC2013	10	14.37462105	39	52.59	+20	03	56.5		19.9	VuEU015H21
b5103	KC2013	10	14.38106005	39	52.12	+20	04	12.0		20.8	VuEU015H21

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