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## MPEC 2013-X28 : DAILY ORBIT UPDATE (2013 DEC. 6 UT)

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M.P.E.C. 2013-X28

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DAILY ORBIT UPDATE (2013 DEC. 6 UT)

Update to [MPEC 2013-X25](#)

Full-precision elements for the objects listed here are available at <http://www.minorplanetcenter.net/iau/MPCORB.html>

**New identification:**

K00W03E	K13WA7A	MPCS
K00X24G	K13WA6Y	MPCS
K04V38H	K13WA6N	MPCS
K06Y07O	K13V19Y	MPCS
K11G35S	K13WA7B	MPCS

**New multiple-opposition orbits:**

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp	C
J95S52R	17.9	0.15	K13B4	315.649	90.800	15.504	6.973	0.05225	2.32408	4	X
J97W21B	20.2	0.15	K13B4	40.130	81.762	281.117	3.392	0.31730	1.46060	5	X
J98U24X	20.0	0.15	K13B4	4.500	16.481	25.568	14.115	0.28585	1.83584	4	X
J98W39Q	18.1	0.15	K13B4	3.257	358.783	57.873	7.197	0.10405	2.40415	3	X
J99R07L	16.7	0.15	K13B4	24.995	27.325	5.131	9.404	0.21256	2.73655	4	X
J99S10K	19.6	0.15	K13B4	327.499	269.192	197.821	6.961	0.44134	1.76340	3	X
J99U48D	16.6	0.15	K13B4	25.516	22.032	0.596	8.110	0.23693	2.75995	5	X
J99V18D	16.2	0.15	K13B4	335.597	78.681	23.147	9.319	0.09198	2.73588	4	X
J99V79K	16.6	0.15	K13B4	25.240	204.636	201.596	2.946	0.17970	2.74172	6	X
J99Y02K	17.2	0.15	K13B4	21.993	332.526	99.929	6.056	0.14613	2.78366	4	X
K00A49O	16.3	0.15	K13B4	316.247	186.093	293.802	26.198	0.20367	2.33211	5	X
K00SB4L	16.9	0.15	K13B4	41.724	329.613	30.417	4.939	0.26351	2.62022	5	X
K00SF7N	16.3	0.15	K13B4	13.305	65.216	344.516	10.090	0.26290	2.61126	4	X
K00SM3W	16.8	0.15	K13B4	50.537	162.219	201.362	2.008	0.23657	2.60205	6	X
K00S02P	16.4	0.15	K13B4	26.713	10.693	8.341	14.968	0.27291	2.60791	4	X
K00T23Q	17.6	0.15	K13B4	27.872	106.614	275.573	3.922	0.14897	2.17049	6	X
K00W03E	17.5	0.15	K13B4	340.272	188.640	253.690	20.555	0.08880	1.88743	2	X
K00W24A	16.4	0.15	K13B4	29.898	138.337	254.359	11.707	0.18429	2.63990	4	X
K00X24G	16.6	0.15	K13B4	351.528	50.341	28.585	7.777	0.30408	2.65517	2	S
K01FI8O	16.5	0.15	K13B4	338.109	153.641	36.306	14.389	0.18011	2.62173	7	X
K01G08U	16.9	0.15	K13B4	271.928	84.100	104.994	6.209	0.21499	2.23969	6	X

K01O66X	16.2	0.15	K13B4	77.691	30.307	314.822	14.143	0.16045	2.41344	5 X
K01QQ6M	16.7	0.15	K13B4	97.595	18.982	293.973	14.073	0.19025	2.41776	6 X
K01R54J	15.3	0.15	K13B4	55.229	339.992	6.567	28.082	0.17841	3.19472	4 X
K01SD2Q	16.8	0.15	K13B4	64.972	354.160	344.103	5.285	0.19454	2.46257	6 X
K01SE6D	17.4	0.15	K13B4	32.093	27.695	355.136	14.852	0.17645	2.46563	4 X
K01S18E	17.5	0.15	K13B4	20.128	50.035	351.172	5.878	0.13209	2.44336	6 X
K01T89E	17.4	0.15	K13B4	353.336	77.676	6.614	7.288	0.26449	2.47809	4 X
K01T05H	18.3	0.15	K13B4	27.283	26.218	0.522	6.530	0.17851	2.46861	4 X
K01Y68M	16.6	0.15	K13B4	335.091	178.130	284.497	12.463	0.23064	2.53295	4 X
K01YF3K	15.7	0.15	K13B4	351.700	89.188	344.269	13.003	0.13785	2.54250	4 X
K01YF5W	16.7	0.15	K13B4	359.246	116.569	303.096	16.258	0.17177	2.53566	4 X
K02C36Z	17.6	0.15	K13B4	283.957	186.994	331.190	3.718	0.21723	2.58745	3 X
K02D06L	17.5	0.15	K13B4	293.353	35.019	156.934	15.262	0.05193	2.52706	5 X
K02G03A	17.7	0.15	K13B4	319.214	111.562	25.841	16.207	0.28353	2.58186	5 X
K02G64Z	16.4	0.15	K13B4	303.105	108.313	44.108	13.345	0.18770	2.61924	4 X
K02G74A	16.6	0.15	K13B4	277.441	142.497	30.775	12.386	0.13386	2.63817	5 X
K02H180	18.0	0.15	K13B4	85.500	106.246	220.768	18.516	0.07353	1.86395	2 X
K02N71M	17.9	0.15	K13B4	9.878	113.278	283.313	21.002	0.30158	2.31856	4 X
K02O17A	16.7	0.15	K13B4	32.822	91.689	273.872	11.461	0.24094	2.31901	5 X
K02P98T	15.8	0.15	K13B4	34.048	203.442	143.019	11.292	0.22556	3.03277	5 X
K02Q55F	18.0	0.15	K13B4	41.479	195.764	151.955	6.175	0.18447	2.33076	4 S
K02QA7U	18.7	0.15	K13B4	68.747	68.889	250.685	1.590	0.23630	2.31576	3 X
K02QB2K	16.0	0.15	K13B4	346.628	123.538	316.558	11.018	0.02711	2.90605	4 X
K02QF0W	15.9	0.15	K13B4	16.208	210.128	171.132	13.792	0.20961	3.02038	4 X
K02QF0Z	17.6	0.15	K13B4	98.350	345.501	306.413	6.079	0.12234	2.31631	4 X
K02QF4B	16.3	0.15	K13B4	28.839	81.215	314.373	7.738	0.06272	2.92374	5 X
K02RC3Y	17.8	0.15	K13B4	18.116	248.143	128.242	10.508	0.27662	2.34623	2 X
K02RI5N	15.6	0.15	K13B4	71.742	22.989	311.545	10.745	0.15867	2.99115	5 X
K02RN5B	18.5	0.15	K13B4	123.446	338.939	314.273	3.985	0.11754	2.29230	4 X
K02T65Q	15.7	0.15	K13B4	355.172	42.954	46.736	26.554	0.49707	3.12667	3 S
K02TB5Q	15.5	0.15	K13B4	90.373	19.278	314.474	9.812	0.06235	2.98639	3 X
K02TL7M	15.7	0.15	K13B4	91.355	315.842	24.486	10.819	0.08110	2.98224	5 X
K02TM5S	15.8	0.15	K13B4	10.722	23.820	48.599	19.403	0.28482	3.04681	5 X
K02TVOE	17.3	0.15	K13B4	330.883	30.770	65.601	7.999	0.11251	2.33905	5 X
K02U72C	17.2	0.15	K13B4	70.957	283.895	68.758	6.296	0.18287	2.32556	3 X
K02V09Z	17.4	0.15	K13B4	47.978	16.621	339.404	4.113	0.22388	2.35316	5 X
K02V16C	17.7	0.15	K13B4	34.729	298.205	86.257	2.531	0.18609	2.34383	6 X
K02VB7H	16.0	0.15	K13B4	32.403	6.539	12.109	10.966	0.28942	3.06444	3 X
K02VE5C	18.1	0.15	K13B4	1.148	256.874	147.627	2.930	0.11757	2.37680	2 X
K02X63L	17.5	0.15	K13B4	14.506	233.263	164.527	3.390	0.34947	2.37278	4 X
K02Y07M	15.5	0.15	K13B4	351.822	189.093	261.252	21.649	0.16893	3.09080	5 X
K02Y26G	15.5	0.15	K13B4	355.217	158.167	282.865	29.691	0.27182	3.13791	5 X
K03A19W	16.2	0.15	K13B4	1.322	133.922	296.122	15.357	0.21377	3.13296	5 X
K03A53G	16.0	0.15	K13B4	348.999	355.925	109.569	16.888	0.23306	3.13574	3 X
K03A56M	17.3	0.15	K13B4	304.079	175.516	323.026	5.334	0.14912	2.40692	5 X
K03F38M	16.8	0.15	K13B4	105.413	71.099	193.765	16.401	0.19395	2.65603	4 X
K03F76Q	16.7	0.15	K13B4	271.620	196.706	337.280	6.717	0.12758	2.47467	6 X
K03O15W	16.9	0.15	K13B4	61.603	68.139	279.417	6.325	0.23775	2.78572	4 X
K03O18S	15.9	0.15	K13B4	56.202	49.470	298.826	12.032	0.19459	2.78903	5 X
K03P11X	15.5	0.15	K13B4	53.746	53.377	290.432	19.558	0.23004	2.79710	5 X
K03Q79P	18.1	0.15	K13B4	36.838	57.208	314.464	5.938	0.19905	2.17469	4 X
K03S87R	17.7	0.15	K13B4	62.070	351.775	359.169	6.882	0.16969	2.18632	6 X
K03SA7P	17.9	0.15	K13B4	44.313	20.907	341.551	5.267	0.17635	2.19643	5 X
K03SI4X	16.7	0.15	K13B4	31.899	26.748	30.457	4.548	0.20668	2.77787	5 X
K03SI7H	18.3	0.15	K13B4	30.094	285.660	28.149	0.877	0.23589	2.25066	3 X
K03SS3H	16.0	0.15	K13B4	92.571	24.089	296.964	12.443	0.15006	2.77316	6 X
K03T18H	16.7	0.15	K13B4	63.395	108.209	251.964	8.445	0.14896	2.80328	4 X
K03UP2J	15.9	0.15	K13B4	358.509	37.237	47.645	13.920	0.17287	2.87577	5 X
K03X21K	16.2	0.15	K13B4	0.441	298.161	82.046	15.164	0.45189	2.98544	3 X
K04A08F	18.1	0.15	K13B4	328.444	314.028	126.714	24.408	0.07908	1.87330	4 X
K04E02Y	15.0	0.15	K13B4	206.403	89.479	123.669	21.377	0.12377	3.22531	7 X
K04E72W	18.2	0.15	K13B4	286.735	164.992	353.060	6.943	0.15178	2.29687	4 X
K04F05Y	17.7	0.15	K13B4	308.735	14.243	119.405	12.537	0.35115	2.25309	5 X
K04F47L	16.8	0.15	K13B4	320.673	74.079	33.832	6.414	0.05335	2.32614	6 X
K04FF5M	16.0	0.15	K13B4	332.168	91.921	13.160	10.209	0.11494	3.12424	5 X
K04G11Q	15.5	0.15	K13B4	310.190	87.246	63.821	22.313	0.19640	3.03802	6 X
K04G28N	17.7	0.15	K13B4	176.131	140.402	74.285	24.173	0.05269	1.94564	5 X
K04H55S	15.4	0.15	K13B4	282.659	113.371	59.638	27.190	0.19863	3.14956	5 X
K04J12G	17.0	0.15	K13B4	206.153	311.683	270.426	6.677	0.17072	2.38267	4 X
K04K10Q	17.2	0.15	K13B4	311.704	16.133	70.596	22.948	0.09361	1.95272	4 X
K04N10H	16.2	0.15	K13B4	99.405	1.992	308.975	7.544	0.19578	2.54777	5 X
K04P10S	16.6	0.15	K13B4	53.226	56.451	304.798	12.129	0.20922	2.57542	6 X
K04P16Z	16.9	0.15	K13B4	49.485	60.916	311.538	11.501	0.16414	2.58168	6 X
K04P47Y	16.5	0.15	K13B4	58.573	179.424	145.471	16.029	0.20979	2.61707	6 X
K04PA7L	17.1	0.15	K13B4	6.346	75.916	337.793	9.048	0.29674	2.64017	3 X
K04PA9Q	16.6	0.15	K13B4	24.197	89.145	298.919	8.510	0.18233	2.56874	6 X
K04Q19J	16.2	0.15	K13B4	57.917	300.500	46.669	14.369	0.21067	2.58739	5 X
K04RL2T	16.4	0.15	K13B4	45.694	81.697	263.007	11.871	0.19578	2.66616	2 X
K04RL6G	16.4	0.15	K13B4	55.848	50.270	306.271	10.242	0.17920	2.63220	5 X
K04TP9A	17.6	0.15	K13B4	61.503	101.379	222.341	0.981	0.24559	2.68287	4 X
K04TS7W	15.7	0.15	K13B4	14.968	18.360	38.568	22.618	0.04140	2.66045	5 X
K04TU2Q	16.2	0.15	K13B4	39.559	323.176	42.895	12.599	0.19515	2.67598	6 X
K04V11B	16.4	0.15	K13B4	47.851	354.234	3.221	14.310	0.25994	2.68294	4 X
K04V12K	16.4	0.15	K13B4	29.189	326.115	54.538	14.399	0.25740	2.69093	4 X
K04V38H	17.5	0.15	K13B4	17.444	153.426	223.986	2.709	0.31006	2.72216	2 X
K04X23K	15.9	0.15	K13B4	69.122	111.878	266.873	10.230	0.31472	2.64367	4 X
K04XE3A	17.4	0.15	K13B4	26.297	70.316	320.061	4.642	0.14823	2.72923	4 X

K05E12M	18.0	0.15	K13B4	283.580	33.883	101.051	3.968	0.21925	2.15579	4 X
K05E92D	16.3	0.15	K13B4	352.958	159.639	12.085	14.912	0.12985	2.69395	6 X
K05EL5Y	17.2	0.15	K13B4	241.073	279.926	259.599	0.372	0.21657	2.97696	4 X
K05ES0V	15.7	0.15	K13B4	164.848	216.042	34.919	14.595	0.09890	3.02928	4 X
K05GA6Z	17.6	0.15	K13B4	329.516	61.130	37.814	7.665	0.03481	2.19551	5 X
K05GE0T	17.5	0.15	K13B4	160.292	163.001	79.624	7.723	0.11758	2.25340	2 X
K05GL0L	15.7	0.15	K13B4	278.256	4.174	148.117	16.286	0.17716	2.97209	4 X
K05GM3S	17.9	0.15	K13B4	189.079	102.796	102.222	3.741	0.18828	2.25414	4 X
K05J36F	18.3	0.15	K13B4	99.101	80.869	193.611	6.828	0.20901	2.35731	4 X
K05J46U	18.2	0.15	K13B4	121.201	200.311	71.070	3.035	0.19434	2.30591	4 X
K05JA8B	15.9	0.15	K13B4	220.096	70.878	120.208	14.757	0.21986	3.09669	3 X
K05JB1M	15.2	0.15	K13B4	143.440	232.256	47.371	16.431	0.04575	3.11304	6 X
K05P02W	17.3	0.15	K13B4	120.176	331.945	314.649	1.897	0.19722	2.35883	3 X
K05Q79E	17.5	0.15	K13B4	105.724	322.226	344.393	9.091	0.20446	2.38942	5 X
K05QB4O	17.4	0.15	K13B4	50.597	172.953	190.848	0.816	0.19886	2.43138	5 X
K05S05T	17.2	0.15	K13B4	45.607	0.605	358.220	6.921	0.18113	2.45333	4 X
K05S51H	18.0	0.15	K13B4	81.752	61.791	200.259	20.883	0.03465	1.98007	4 X
K05S57U	17.2	0.15	K13B4	59.935	348.255	7.447	6.378	0.10687	2.43277	5 X
K05SQ1T	17.9	0.15	K13B4	23.137	231.661	199.145	7.113	0.23209	2.38816	4 X
K05UF8K	17.7	0.15	K13B4	286.281	248.691	232.697	19.560	0.07848	1.92345	3 S
K05UO2X	16.5	0.15	K13B4	53.413	91.565	274.883	5.125	0.16790	2.48150	5 X
K05UY8P	17.4	0.15	K13B4	49.986	171.393	247.401	8.961	0.07797	2.36786	6 X
K05Ue3F	15.4	0.15	K13B4	339.538	351.707	103.559	3.777	0.20082	3.96899	8 X
K05Um6D	17.9	0.15	K13B4	19.779	64.554	329.822	4.728	0.21621	2.47062	4 X
K05V07C	17.4	0.15	K13B4	322.034	193.576	279.435	19.524	0.08642	1.90416	4 X
K05W04J	15.8	0.15	K13B4	36.544	75.738	283.170	28.342	0.30152	2.58923	3 X
K05WAlF	15.1	0.15	K13B4	359.197	355.309	87.297	3.368	0.26429	3.94494	5 X
K05X24S	16.3	0.15	K13B4	234.206	285.218	280.812	13.219	0.12112	2.58862	3 X
K05Y17W	17.8	0.15	K13B4	336.100	159.461	275.949	7.858	0.22333	2.54985	4 X
K05Y47Q	17.0	0.15	K13B4	184.638	316.457	295.685	17.553	0.07578	1.94030	4 X
K05Y57Z	17.2	0.15	K13B4	28.594	92.800	289.132	10.488	0.22084	2.55305	4 X
K05Y71F	16.2	0.15	K13B4	40.636	12.623	336.593	4.680	0.26907	2.57357	5 X
K05YD8B	17.0	0.15	K13B4	3.804	116.244	304.892	4.472	0.14385	2.56420	6 X
K05YD9H	17.2	0.15	K13B4	335.231	329.086	95.966	13.276	0.16807	2.60594	3 X
K05YE3Q	17.3	0.15	K13B4	314.611	358.138	94.722	4.509	0.15183	2.64761	4 X
K05YH4W	17.9	0.15	K13B4	322.814	143.650	318.642	17.182	0.10410	1.95263	3 X
K05YK0A	16.5	0.15	K13B4	339.459	157.296	299.959	12.641	0.12990	2.56820	4 X
K06A67K	15.8	0.15	K13B4	100.895	24.113	287.386	14.190	0.11449	2.64221	5 X
K06B80E	16.4	0.15	K13B4	194.352	80.118	128.866	12.317	0.17620	2.81005	5 X
K06BM2D	16.8	0.15	K13B4	341.992	116.044	316.822	12.387	0.24081	2.61789	2 X
K06B01C	16.7	0.15	K13B4	26.949	267.516	120.432	6.123	0.29117	2.59522	5 X
K06C00T	22.4	0.15	K13B4	18.244	82.712	285.623	2.735	0.23099	1.09776	4 X
K06C62Y	16.2	0.15	K13B4	341.648	39.362	61.055	18.627	0.11546	2.59793	4 X
K06D17X	16.1	0.15	K13B4	59.302	274.635	347.793	14.969	0.23306	3.12653	4 X
K06D90E	16.8	0.15	K13B4	31.512	236.059	163.643	2.196	0.10219	2.69946	7 X
K06DC1B	16.4	0.15	K13B4	295.162	149.912	353.497	15.089	0.09495	2.63401	6 X
K06DJ3O	17.7	0.15	K13B4	304.867	114.018	10.526	19.939	0.07817	1.97575	4 X
K06DK1P	16.9	0.15	K13B4	241.501	181.283	2.590	16.430	0.22314	2.73762	3 X
K06E53O	17.3	0.15	K13B4	323.686	123.864	356.625	14.132	0.24592	2.63395	3 X
K06E73U	14.7	0.15	K13B4	298.256	244.142	11.932	11.042	0.20613	3.94598	7 X
K06H87Y	16.1	0.15	K13B4	236.405	182.830	22.622	9.857	0.11543	2.73763	4 X
K06HF3V	15.9	0.15	K13B4	307.192	83.271	61.550	26.038	0.16095	2.71952	3 X
K06K12G	15.6	0.15	K13B4	66.274	206.368	94.637	15.860	0.26818	3.17213	5 X
K06KA8K	16.8	0.15	K13B4	291.256	111.949	43.438	13.910	0.15850	2.72508	4 X
K06Q75Q	16.0	0.15	K13B4	319.742	145.969	343.340	12.308	0.08754	3.13769	6 X
K06QA6A	16.2	0.15	K13B4	93.635	158.653	162.771	18.133	0.21965	3.23306	4 X
K06R93K	16.3	0.15	K13B4	45.120	221.116	210.726	8.835	0.10251	3.18605	6 X
K06RA1J	16.8	0.15	K13B4	9.817	298.870	66.535	24.775	0.27631	2.29532	7 X
K06S92T	18.8	0.15	K13B4	344.835	241.055	200.294	5.632	0.13038	2.25904	4 X
K06SH9V	16.3	0.15	K13B4	301.720	225.109	13.020	13.205	0.16441	2.80540	5 X
K06SY3S	16.4	0.15	K13B4	30.676	229.011	220.898	9.098	0.07969	3.18827	3 X
K06Se9B	17.7	0.15	K13B4	57.845	336.275	32.071	3.852	0.15453	2.26269	4 X
K06T92A	18.7	0.15	K13B4	353.205	20.641	350.380	1.041	0.19790	2.37156	3 X
K06U19D	16.1	0.15	K13B4	228.247	37.247	225.744	9.489	0.04439	3.09098	6 X
K06UJ3Q	18.3	0.15	K13B4	358.971	54.777	25.684	4.360	0.09028	2.23322	4 X
K06UK4E	18.2	0.15	K13B4	23.724	63.604	320.632	5.651	0.18735	2.27873	4 X
K06ULL1V	17.6	0.15	K13B4	38.369	103.913	257.284	4.982	0.15010	2.30241	6 X
K06V07X	16.9	0.15	K13B4	358.063	17.866	51.487	7.866	0.05492	2.27883	5 X
K06V48A	16.1	0.15	K13B4	36.993	13.385	16.496	5.891	0.11722	3.45946	3 X
K06V91B	18.3	0.15	K13B4	329.929	177.063	277.139	3.819	0.17422	2.29981	3 X
K06WK1D	17.7	0.15	K13B4	2.340	342.280	87.566	6.768	0.11199	2.33946	4 X
K06WK3R	18.3	0.15	K13B4	352.737	172.379	257.727	6.101	0.08384	2.30811	3 X
K06X33B	17.4	0.15	K13B4	344.601	7.276	59.898	8.209	0.16147	2.33854	4 X
K06X34W	18.2	0.15	K13B4	341.493	164.877	295.969	4.721	0.12580	2.30148	4 X
K06Y07O	17.3	0.15	K13B4	0.959	288.753	122.080	12.626	0.13011	2.32692	2 X
K06Y08V	17.3	0.15	K13B4	294.845	70.074	99.074	8.636	0.23068	2.33811	3 X
K07B11S	18.2	0.15	K13B4	281.587	141.534	351.471	5.548	0.15151	2.43003	3 X
K07B35S	16.8	0.15	K13B4	33.225	51.328	331.764	7.973	0.23380	2.35490	7 X
K07B40W	17.4	0.15	K13B4	321.218	220.438	191.212	2.241	0.20563	2.46720	3 X
K07B43D	18.0	0.15	K13B4	257.428	232.065	300.568	0.633	0.12842	2.40641	4 X
K07C10U	18.0	0.15	K13B4	285.104	340.929	140.019	2.871	0.13985	2.44757	3 X
K07C34K	15.1	0.15	K13B4	353.627	119.678	322.516	8.244	0.11508	4.00223	6 X
K07D05V	18.5	0.15	K13B4	282.470	232.648	285.987	1.613	0.13837	2.37315	4 X
K07F00Z	16.6	0.15	K13B4	223.716	215.732	296.127	16.688	0.11221	2.55021	3 X
K07F33D	16.6	0.15	K13B4	134.259	84.177	163.518	5.883	0.15586	2.67843	5 X
K07F49P	16.4	0.15	K13B4	167.863	111.998	116.404	14.074	0.11209	2.64636	5 X
K07G06M	16.7	0.15	K13B4	106.990	264.473	47.736	14.222	0.02808	2.58712	2 X

K07G610	16.4	0.15	K13B4	336.072	210.565	221.917	21.539	0.05655	2.61093	2 S
K07H38F	17.4	0.15	K13B4	214.099	179.237	36.860	11.507	0.07978	2.52932	4 X
K07H45L	17.5	0.15	K13B4	205.085	14.540	182.607	4.821	0.17460	2.65178	4 X
K07H52J	17.3	0.15	K13B4	219.938	352.451	198.479	11.061	0.18725	2.61737	3 X
K07J00W	16.7	0.15	K13B4	211.924	356.059	189.721	13.286	0.18307	2.62800	4 X
K07J15F	17.2	0.15	K13B4	215.241	132.565	47.483	13.535	0.09973	2.66305	4 X
K07R11F	15.9	0.15	K13B4	189.430	39.544	165.072	6.754	0.07091	3.14833	6 X
K07RA2D	16.4	0.15	K13B4	31.068	37.049	336.905	16.719	0.21713	3.10795	4 X
K07RD5S	16.1	0.15	K13B4	105.861	274.380	357.419	9.280	0.21385	3.15595	5 X
K07RG7M	16.1	0.15	K13B4	317.678	298.846	164.126	13.766	0.14441	3.06088	7 X
K07RJ8W	15.6	0.15	K13B4	45.885	61.535	291.143	13.807	0.25763	3.10548	4 X
K07RL2Z	16.0	0.15	K13B4	48.120	35.183	344.026	8.520	0.04032	3.03437	6 X
K07RN4B	15.6	0.15	K13B4	57.895	20.782	328.630	13.093	0.32319	3.07957	4 X
K07RP7C	16.0	0.15	K13B4	49.230	190.412	146.053	15.507	0.17526	3.11824	6 X
K07RQ8K	16.5	0.15	K13B4	98.040	266.683	25.129	9.015	0.13776	3.11740	4 X
K07RR1F	16.1	0.15	K13B4	285.298	302.532	201.137	21.616	0.12340	3.08506	4 X
K07RR5N	15.6	0.15	K13B4	11.483	279.264	101.583	21.155	0.36346	3.19802	3 X
K07T06D	15.5	0.15	K13B4	355.126	60.188	11.197	27.123	0.10064	3.09896	5 X
K07T06L	15.7	0.15	K13B4	25.917	142.810	236.329	6.538	0.13317	3.06939	2 X
K07T400	15.8	0.15	K13B4	340.737	51.387	43.250	14.039	0.08485	3.18592	3 X
K07T43R	16.0	0.15	K13B4	357.258	111.786	323.216	6.090	0.15549	3.14940	7 X
K07T52D	15.9	0.15	K13B4	9.625	38.610	25.875	10.321	0.11217	3.12025	6 X
K07T56P	16.0	0.15	K13B4	46.179	359.940	31.553	11.331	0.09653	3.08482	6 X
K07T60B	16.2	0.15	K13B4	26.478	101.723	27.962	14.746	0.08378	2.77913	5 X
K07T76Z	15.6	0.15	K13B4	7.055	38.932	26.631	10.080	0.09120	3.09437	6 X
K07TA6R	16.3	0.15	K13B4	339.041	86.629	14.792	9.978	0.27703	3.13593	5 X
K07TB3Q	16.2	0.15	K13B4	37.140	326.256	45.388	17.958	0.19998	3.15253	4 X
K07TC1B	16.1	0.15	K13B4	310.892	81.240	2.050	9.328	0.07721	3.15475	4 X
K07TC4G	15.9	0.15	K13B4	13.932	13.744	41.975	11.435	0.05526	3.11453	3 X
K07TC4K	15.3	0.15	K13B4	274.128	131.357	39.037	14.549	0.08166	3.06341	6 X
K07TC8S	15.2	0.15	K13B4	336.376	56.533	37.517	19.145	0.08535	3.19711	5 X
K07TE6L	16.3	0.15	K13B4	65.130	197.977	199.619	9.175	0.19169	2.93695	3 X
K07TF6F	15.9	0.15	K13B4	16.278	50.703	0.875	9.550	0.22371	3.13797	6 X
K07TH5J	16.0	0.15	K13B4	345.967	60.575	38.413	11.440	0.07917	3.08567	5 X
K07TJ7E	16.5	0.15	K13B4	11.882	98.097	307.816	2.936	0.16686	3.07307	5 X
K07TP0L	15.9	0.15	K13B4	350.641	69.249	6.673	9.470	0.08048	3.10896	3 X
K07TY3J	15.3	0.15	K13B4	271.245	128.419	43.393	27.890	0.09946	3.08940	4 X
K07U01L	16.0	0.15	K13B4	338.138	65.555	27.637	10.078	0.07900	3.12586	4 X
K07U24W	16.0	0.15	K13B4	82.213	282.495	73.700	6.834	0.09830	3.07996	4 X
K07U33E	15.4	0.15	K13B4	79.974	70.782	266.094	16.381	0.21289	3.05245	5 X
K07U77D	16.2	0.15	K13B4	79.060	78.895	268.347	2.689	0.10500	3.14325	4 X
K07UA6U	15.6	0.15	K13B4	32.097	347.313	46.527	17.417	0.05526	3.20447	4 X
K07V43V	15.1	0.15	K13B4	155.575	237.910	34.696	25.345	0.06832	3.15642	5 X
K07V90L	15.5	0.15	K13B4	119.975	254.948	84.829	10.724	0.10537	3.02262	7 X
K07VB7S	15.6	0.15	K13B4	320.480	72.761	54.413	14.539	0.02688	3.07571	6 X
K07VB80	15.8	0.15	K13B4	345.027	245.254	202.779	10.654	0.06177	3.16335	4 X
K07VG9H	16.1	0.15	K13B4	71.269	155.305	253.492	9.290	0.06691	3.03231	4 X
K07VL1K	16.4	0.15	K13B4	156.114	235.542	37.874	11.112	0.04660	3.18975	4 X
K07VN0L	16.1	0.15	K13B4	48.262	304.508	54.911	17.166	0.22445	3.22247	5 X
K07VP2V	15.2	0.15	K13B4	45.607	303.061	63.782	20.106	0.20825	3.18456	4 X
K07VS8A	16.3	0.15	K13B4	165.447	50.835	269.262	10.843	0.03231	2.93236	3 X
K07VT9Y	15.4	0.15	K13B4	27.097	140.088	263.940	15.643	0.20867	3.14016	4 X
K07VW7S	15.4	0.15	K13B4	329.905	173.066	293.329	8.415	0.09699	3.21256	4 X
K07X05S	16.4	0.15	K13B4	14.149	340.682	94.215	9.830	0.26691	3.17004	3 X
K08A36W	16.1	0.15	K13B4	39.306	325.634	135.364	16.589	0.28675	3.06665	3 X
K08B46Q	18.3	0.15	K13B4	44.696	38.130	330.141	4.937	0.13761	2.19806	5 X
K08C50A	15.8	0.15	K13B4	67.499	312.434	126.039	9.767	0.20059	3.08953	7 X
K08CC2H	17.6	0.15	K13B4	218.950	242.480	336.907	5.397	0.11638	2.18984	7 X
K08CI0J	15.8	0.15	K13B4	46.041	281.529	166.400	25.398	0.30331	3.10643	5 X
K08E73M	15.6	0.15	K13B4	338.324	189.222	6.526	16.819	0.13263	3.19992	5 X
K08F39E	17.1	0.15	K13B4	107.236	253.869	47.354	10.018	0.21082	2.39352	5 X
K08F99S	17.3	0.15	K13B4	345.675	21.824	72.417	9.225	0.05515	2.24228	4 X
K08G00S	17.5	0.15	K13B4	204.382	135.894	55.390	8.103	0.16369	2.33262	4 X
K08G78B	18.2	0.15	K13B4	253.843	75.594	83.805	5.704	0.12867	2.30479	7 X
K08G90F	18.3	0.15	K13B4	257.932	347.674	173.337	3.427	0.15475	2.26838	4 X
K08O04G	16.6	0.15	K13B4	33.478	83.601	293.873	9.942	0.22570	2.68705	3 X
K08O22J	16.4	0.15	K13B4	26.475	55.035	340.067	16.773	0.09045	2.66487	4 X
K08P09W	16.2	0.15	K13B4	250.654	139.565	26.171	28.597	0.04122	2.65316	4 X
K08P20G	16.7	0.15	K13B4	49.692	217.080	102.737	13.569	0.27325	2.78182	3 X
K08Q04B	16.5	0.15	K13B4	307.290	208.571	279.224	12.330	0.10110	2.58606	5 X
K08Q31J	16.5	0.15	K13B4	39.670	44.956	323.688	14.481	0.24495	2.74466	4 X
K08Q33N	16.1	0.15	K13B4	331.231	102.422	2.190	15.142	0.06817	2.64204	6 X
K08Q44L	16.9	0.15	K13B4	30.647	51.203	341.664	11.078	0.19793	2.66391	5 X
K08R24V	16.7	0.15	K13B4	272.813	279.570	359.215	30.710	0.29848	2.14944	5 X
K08R44B	17.0	0.15	K13B4	343.532	273.441	168.427	2.281	0.06930	2.70170	7 X
K08RD0S	15.9	0.15	K13B4	47.437	197.629	145.531	15.941	0.14104	2.85972	5 X
K08RD1U	17.5	0.15	K13B4	2.490	22.558	27.409	4.755	0.23306	2.78849	3 X
K08S01Q	18.5	0.15	K13B4	348.730	151.104	269.894	6.712	0.58349	2.95591	3 X
K08S05W	16.1	0.15	K13B4	24.051	337.099	51.387	8.998	0.22519	2.78730	4 X
K08S36S	16.7	0.15	K13B4	209.672	213.777	346.423	8.510	0.06878	2.66087	4 X
K08S67W	16.0	0.15	K13B4	85.716	295.650	35.909	13.873	0.18210	2.70311	6 X
K08S86N	16.7	0.15	K13B4	17.060	141.094	223.602	11.153	0.06329	2.90478	4 X
K08SC5C	16.2	0.15	K13B4	339.130	82.119	17.936	12.117	0.12331	2.75877	4 X
K08SD3J	17.3	0.15	K13B4	345.050	113.468	356.806	16.892	0.11765	2.64058	2 X
K08SE3O	16.6	0.15	K13B4	324.269	88.423	44.408	12.618	0.21058	2.77161	4 X
K08SE5X	16.6	0.15	K13B4	5.606	40.672	15.277	7.364	0.20300	2.78030	5 X
K08SH3L	16.4	0.15	K13B4	30.156	95.067	287.479	7.871	0.18138	2.74437	5 X

K08SJK	16.4	0.15	K13B4	12.907	58.608	344.718	8.805	0.18261	2.77250	5 X
K08SO4X	17.5	0.15	K13B4	42.037	22.119	12.918	17.201	0.18240	2.67429	2 X
K08ST4S	16.5	0.15	K13B4	60.564	40.241	295.822	13.485	0.25143	2.74260	3 X
K08ST9G	15.7	0.15	K13B4	9.676	7.547	48.364	12.374	0.08573	2.73226	6 X
K08SU10	16.5	0.15	K13B4	346.297	94.745	347.126	8.430	0.14623	2.77804	6 X
K08SU3C	16.4	0.15	K13B4	138.462	353.287	288.142	9.275	0.10208	2.66887	5 X
K08T42U	16.1	0.15	K13B4	50.172	92.256	269.871	7.440	0.25212	2.75353	5 X
K08T59X	16.8	0.15	K13B4	78.940	196.383	193.464	9.557	0.10588	2.56708	4 X
K08T68J	16.6	0.15	K13B4	348.089	37.720	47.637	9.354	0.11554	2.78849	4 X
K08TA7R	17.2	0.15	K13B4	56.288	169.708	153.143	5.554	0.10711	2.89316	5 X
K08TC9U	16.3	0.15	K13B4	288.940	94.722	8.982	10.307	0.07853	2.96296	4 X
K08TD5L	17.4	0.15	K13B4	58.576	357.291	356.140	3.395	0.12392	2.79920	4 X
K08UJ9J	15.2	0.15	K13B4	164.886	333.400	289.047	32.781	0.10828	3.19883	5 X
K08UK7R	16.7	0.15	K13B4	3.804	60.354	22.499	6.544	0.03150	2.71324	4 X
K08UL2D	16.5	0.15	K13B4	33.442	276.804	123.059	3.912	0.18817	2.78074	6 X
K08US2M	17.0	0.15	K13B4	356.139	235.420	204.631	2.347	0.22836	2.86604	5 X
K08US5Q	16.6	0.15	K13B4	33.253	348.680	44.431	9.922	0.08871	2.78944	4 X
K08UZ1U	16.7	0.15	K13B4	352.133	236.895	174.142	8.193	0.31837	2.97538	2 X
K08V05E	16.9	0.15	K13B4	352.655	344.991	102.616	8.840	0.30295	2.77051	5 X
K08V59H	16.6	0.15	K13B4	36.348	351.034	30.077	9.904	0.16616	2.81414	4 X
K08V65T	15.5	0.15	K13B4	272.357	243.148	281.681	19.015	0.11808	3.11330	4 X
K08WD9O	15.9	0.15	K13B4	5.435	152.381	254.875	10.773	0.20672	3.03950	2 X
K08X38L	16.1	0.15	K13B4	81.496	31.927	280.693	8.453	0.06314	3.11677	4 X
K08Y19Q	16.4	0.15	K13B4	313.138	103.371	116.927	12.728	0.09459	2.64760	4 X
K08Y21Q	15.8	0.15	K13B4	292.105	211.197	297.651	11.448	0.10455	3.14336	5 X
K08Y38B	16.6	0.15	K13B4	324.198	86.042	118.445	12.771	0.08286	2.63816	6 X
K08Y49B	15.9	0.15	K13B4	304.365	169.797	316.339	8.813	0.01721	3.17818	5 X
K08Y76C	15.9	0.15	K13B4	328.501	149.012	321.115	9.173	0.12664	3.06948	7 X
K08YE2K	16.2	0.15	K13B4	40.590	282.163	107.959	5.894	0.10196	3.03927	5 X
K08YF8R	15.8	0.15	K13B4	330.048	294.440	137.161	12.486	0.04776	3.37096	5 X
K08YG5G	15.9	0.15	K13B4	287.286	199.351	306.748	25.803	0.04061	3.14670	5 X
K08YG5K	16.1	0.15	K13B4	299.685	68.410	92.169	16.003	0.19134	3.07760	5 X
K09A01M	15.6	0.15	K13B4	299.899	39.630	99.552	11.161	0.04681	3.02386	4 X
K09A12Y	16.2	0.15	K13B4	286.134	228.861	273.732	8.976	0.05808	3.12098	3 X
K09B04G	15.4	0.15	K13B4	338.491	163.129	281.184	16.076	0.15013	3.13365	2 X
K09B29R	16.3	0.15	K13B4	35.472	279.199	113.843	9.522	0.19042	3.04835	6 X
K09B33C	15.9	0.15	K13B4	339.920	145.171	314.637	9.622	0.16322	3.08248	6 X
K09B76C	15.8	0.15	K13B4	322.288	156.084	330.697	14.426	0.22948	3.15347	4 X
K09B77X	16.3	0.15	K13B4	329.254	44.266	85.151	6.789	0.26285	3.06364	8 X
K09B79E	16.2	0.15	K13B4	17.862	112.164	296.894	7.970	0.14032	3.09631	4 X
K09BD3G	16.7	0.15	K13B4	336.085	303.627	132.748	11.886	0.20988	3.19672	2 X
K09BH2B	16.6	0.15	K13B4	312.276	333.004	160.340	15.450	0.27077	3.10563	3 X
K09C50H	16.2	0.15	K13B4	335.172	131.512	327.495	9.460	0.19587	3.13218	5 X
K09C60O	16.1	0.15	K13B4	319.793	137.813	346.407	8.000	0.12499	3.12356	4 X
K09D42S	17.8	0.15	K13B4	202.171	231.768	346.033	18.547	0.05189	1.96349	4 X
K09D73C	16.4	0.15	K13B4	6.228	349.355	163.743	9.263	0.09955	2.77754	4 X
K09D74D	16.3	0.15	K13B4	344.467	282.053	158.364	13.617	0.29595	3.17083	4 X
K09E12Y	16.0	0.15	K13B4	320.624	88.854	123.550	13.473	0.09778	2.80959	6 X
K09E13U	16.1	0.15	K13B4	321.930	139.198	354.324	11.152	0.20400	3.17704	5 X
K09H04D	17.9	0.15	K13B4	272.874	124.453	33.185	21.245	0.04655	1.96321	3 X
K09H62L	18.2	0.15	K13B4	308.395	78.990	50.593	22.057	0.09886	1.96888	3 X
K09H73V	17.9	0.15	K13B4	320.602	53.847	66.540	22.711	0.09913	1.93956	4 X
K09H95T	16.0	0.15	K13B4	280.234	135.525	115.145	11.039	0.04824	3.02210	7 X
K09J16Q	17.3	0.15	K13B4	90.015	86.754	213.530	5.048	0.08264	2.16245	7 X
K09P19F	18.4	0.15	K13B4	20.352	35.071	355.913	2.346	0.17420	2.37530	4 X
K09Q46G	17.6	0.15	K13B4	80.218	295.457	16.466	1.563	0.20381	2.35070	4 X
K09R00G	17.7	0.15	K13B4	11.947	74.013	340.601	7.317	0.12968	2.30343	4 X
K09R27H	17.2	0.15	K13B4	49.605	5.543	3.933	8.006	0.18803	2.35213	5 X
K09R44S	17.7	0.15	K13B4	1.420	206.660	222.335	2.392	0.17444	2.38512	5 X
K09R60X	17.1	0.15	K13B4	79.861	25.799	271.507	8.848	0.23794	2.39607	3 X
K09S70L	17.6	0.15	K13B4	351.072	202.470	170.013	6.920	0.22901	2.63523	3 X
K09SF2V	18.1	0.15	K13B4	14.885	65.554	330.030	4.396	0.23991	2.39153	4 X
K09SF8P	17.3	0.15	K13B4	12.090	66.293	355.660	7.277	0.09139	2.36729	6 X
K09SM3Y	18.2	0.15	K13B4	104.241	90.102	205.898	1.153	0.18625	2.33657	4 X
K09SN8M	17.0	0.15	K13B4	43.262	318.057	52.999	11.287	0.22515	2.37522	4 X
K09SP3F	18.3	0.15	K13B4	353.044	169.559	205.904	3.565	0.31064	2.60222	2 X
K09SX3O	18.1	0.15	K13B4	319.229	82.336	32.734	6.966	0.12602	2.29794	6 X
K09SZ9H	17.4	0.15	K13B4	16.565	343.928	343.523	4.626	0.25309	2.60731	2 X
K09T04Z	17.3	0.15	K13B4	47.780	348.237	23.790	6.572	0.10965	2.37385	5 X
K09T09W	17.4	0.15	K13B4	33.332	319.875	48.245	10.063	0.26360	2.42858	4 X
K09T12O	17.3	0.15	K13B4	69.517	11.455	317.598	4.794	0.24157	2.35276	5 X
K09T18D	17.6	0.15	K13B4	92.292	301.143	4.669	5.846	0.24504	2.35129	5 X
K09U05S	17.3	0.15	K13B4	344.502	37.512	345.757	12.962	0.27056	2.65752	3 X
K09U17G	17.7	0.15	K13B4	291.440	210.665	284.473	5.634	0.06966	2.36581	3 X
K09U34F	16.8	0.15	K13B4	227.437	130.766	42.511	14.035	0.18119	2.64325	6 X
K09U36R	17.8	0.15	K13B4	74.360	295.616	48.940	3.545	0.11408	2.39559	4 X
K09UB6X	17.6	0.15	K13B4	354.551	155.765	290.287	3.736	0.16617	2.39418	4 X
K09UF5E	17.3	0.15	K13B4	295.961	108.405	30.361	5.449	0.06641	2.34568	5 X
K09VB6M	16.7	0.15	K13B4	2.089	294.888	93.786	14.401	0.20423	2.76902	4 X
K09W09A	17.4	0.15	K13B4	63.409	310.388	59.699	23.735	0.19144	2.36944	3 X
K09W75Z	16.8	0.15	K13B4	266.160	335.758	133.397	3.430	0.08542	2.80260	4 X
K09W80K	17.2	0.15	K13B4	27.711	87.110	281.665	7.073	0.21222	2.58344	4 X
K09W84F	17.3	0.15	K13B4	59.965	16.108	354.573	3.428	0.25921	2.36988	4 X
K09W93K	16.8	0.15	K13B4	71.826	252.054	108.719	7.607	0.13264	2.38349	5 X
K09WB9C	17.2	0.15	K13B4	102.247	66.571	236.512	5.585	0.07076	2.53158	3 X
K09WN9T	17.6	0.15	K13B4	55.775	83.175	260.782	8.344	0.20672	2.54899	2 X
K09X01Y	16.3	0.15	K13B4	328.243	205.905	260.778	33.067	0.23676	2.60382	2 X

K09X24Z	16.3	0.15	K13B4	330.118	311.298	118.163	13.735	0.01153	2.86328	4 X
K09Y04H	17.1	0.15	K13B4	324.250	157.893	295.907	12.960	0.21696	2.69568	2 X
K09Y14A	18.8	0.15	K13B4	347.067	100.341	336.082	4.104	0.26343	2.60303	3 X
K10A38S	16.5	0.15	K13B4	357.470	140.501	288.446	10.373	0.14429	2.67265	5 X
K10A56D	16.9	0.15	K13B4	328.840	143.752	332.203	5.843	0.25770	2.64281	5 X
K10A65Q	17.8	0.15	K13B4	345.924	125.210	330.692	9.674	0.22013	2.61028	3 X
K10A71C	16.4	0.15	K13B4	331.048	190.423	268.493	5.552	0.09041	2.66521	8 X
K10A79Q	16.6	0.15	K13B4	346.594	141.107	314.278	12.812	0.20491	2.61578	4 X
K10A81E	16.9	0.15	K13B4	321.318	224.329	247.013	13.181	0.22598	2.65805	3 X
K10AA7T	15.3	0.15	K13B4	72.895	332.694	19.130	17.324	0.10607	3.20606	4 X
K10B04F	15.7	0.15	K13B4	207.340	262.703	336.543	13.468	0.07418	2.70424	6 X
K10C19L	17.8	0.15	K13B4	13.895	76.531	244.019	7.317	0.64546	1.54243	5 X
K10C41P	16.4	0.15	K13B4	340.312	60.151	41.276	11.188	0.20020	2.61068	6 X
K10C63X	16.8	0.15	K13B4	279.270	113.262	148.073	13.158	0.18354	2.40501	4 X
K10C85E	16.6	0.15	K13B4	334.334	107.063	350.058	8.557	0.12420	2.80048	5 X
K10CA3W	16.9	0.15	K13B4	26.526	288.320	161.917	14.363	0.05315	2.62785	3 X
K10CG0P	17.3	0.15	K13B4	6.801	93.477	48.659	8.824	0.17010	2.42311	6 X
K10E66E	16.6	0.15	K13B4	347.807	94.558	357.771	10.882	0.07059	2.91872	5 X
K10F86A	15.9	0.15	K13B4	15.016	35.235	12.067	18.278	0.09094	3.11974	4 X
K10G07B	18.5	0.15	K13B4	208.014	229.707	343.118	15.765	0.03607	1.69477	4 X
K10G27W	16.0	0.15	K13B4	229.102	145.005	34.162	20.143	0.22798	3.11186	4 X
K10G67F	15.6	0.15	K13B4	294.917	339.736	151.872	13.786	0.18387	3.00578	5 X
K10G75A	15.0	0.15	K13B4	241.584	292.794	271.954	20.358	0.18579	3.01355	6 X
K10GD9H	16.8	0.15	K13B4	294.497	80.728	25.274	1.206	0.20818	3.06536	4 X
K10GF9P	16.7	0.15	K13B4	310.823	305.965	183.309	16.359	0.22640	2.78475	4 X
K10H78L	15.6	0.15	K13B4	317.554	67.633	53.759	22.043	0.10605	3.17478	4 X
K10J03C	16.8	0.15	K13B4	333.124	166.130	24.190	12.958	0.15145	2.55415	6 X
K10J39C	16.5	0.15	K13B4	250.180	322.524	189.299	10.192	0.18222	3.13865	4 X
K10K61B	20.5	0.15	K13B4	96.647	234.965	55.966	44.601	0.23362	1.27493	2 X
K10L67Q	16.7	0.15	K13B4	309.749	123.090	101.283	5.022	0.17024	2.58549	6 X
K10LB8O	16.8	0.15	K13B4	305.398	103.154	42.984	16.642	0.24562	2.74666	5 X
K10O01Q	19.0	0.15	K13B4	350.033	286.128	113.579	18.859	0.54973	2.14457	2 X
K10RA9R	17.9	0.15	K13B4	84.501	321.441	7.805	20.734	0.07625	1.95262	5 X
K10U12O	18.3	0.15	K13B4	356.223	3.465	4.788	1.739	0.17379	2.17936	3 X
K10UA7D	17.3	0.15	K13B4	176.589	324.025	286.822	18.950	0.03030	1.92251	5 X
K10V40Q	18.6	0.15	K13B4	341.514	72.679	312.237	3.261	0.15059	2.19188	2 X
K10V78E	18.3	0.15	K13B4	356.782	172.383	194.288	4.696	0.17444	2.21435	3 X
K10X67Z	19.6	0.15	K13B4	343.733	169.019	280.314	11.841	0.49437	2.60015	2 X
K11A68X	18.0	0.15	K13B4	306.722	201.408	237.443	1.257	0.14553	2.43322	3 X
K11C29O	18.2	0.15	K13B4	276.909	141.874	337.375	1.933	0.16135	2.38125	4 X
K11C60X	18.0	0.15	K13B4	36.993	60.723	313.358	3.226	0.16984	2.29364	4 X
K11C73S	16.7	0.15	K13B4	229.368	284.213	251.130	10.793	0.21602	2.55279	5 X
K11C91V	17.8	0.15	K13B4	242.305	16.436	151.161	3.783	0.11924	2.45748	4 X
K11D02U	17.6	0.15	K13B4	308.710	326.840	131.241	3.728	0.14285	2.36799	6 X
K11D17J	16.9	0.15	K13B4	76.557	358.274	351.813	9.847	0.13451	2.34054	6 X
K11E06L	17.7	0.15	K13B4	299.641	128.925	5.510	4.950	0.06282	2.25707	6 X
K11E39S	16.0	0.15	K13B4	92.704	167.786	117.251	6.508	0.12071	3.18189	7 X
K11E55Y	18.0	0.15	K13B4	298.801	80.903	53.696	6.439	0.13995	2.30633	4 X
K11F07F	17.9	0.15	K13B4	279.368	151.544	10.425	4.184	0.13053	2.34882	5 X
K11F27W	17.7	0.15	K13B4	221.337	221.067	356.090	0.954	0.12409	2.41736	4 X
K11F32K	17.3	0.15	K13B4	227.333	133.320	49.620	5.215	0.21541	2.63337	5 X
K11F41A	16.1	0.15	K13B4	187.846	183.886	2.325	19.519	0.19981	3.01462	4 X
K11F84A	15.8	0.15	K13B4	193.719	102.389	82.521	11.629	0.13221	3.04745	6 X
K11G06O	17.1	0.15	K13B4	320.413	47.759	60.355	7.259	0.08088	2.41470	4 X
K11G25F	17.0	0.15	K13B4	168.738	323.502	293.903	3.658	0.15475	2.67553	5 X
K11G32J	16.4	0.15	K13B4	89.961	245.354	51.698	10.027	0.02347	3.09645	4 X
K11G35S	17.7	0.15	K13B4	349.683	101.385	329.819	4.838	0.21807	2.38529	2 X
K11H06N	16.0	0.15	K13B4	232.504	301.736	261.779	13.378	0.13048	2.63421	5 X
K11H08D	17.9	0.15	K13B4	314.268	286.780	202.449	21.212	0.34983	2.29791	4 X
K11H55V	16.2	0.15	K13B4	302.588	1.399	122.034	14.530	0.19702	2.67839	6 X
K11H97B	17.0	0.15	K13B4	46.216	10.415	9.970	8.306	0.13793	2.53963	5 X
K11K27S	16.9	0.15	K13B4	246.818	165.305	34.677	6.878	0.12796	2.58239	6 X
K11SCTN	15.4	0.15	K13B4	69.091	66.629	27.118	18.619	0.05501	3.12320	7 X
K12A10S	17.1	0.15	K13B4	194.087	194.832	50.988	12.505	0.48695	1.59729	5 X
K12H15N	18.6	0.15	K13B4	62.945	323.567	55.920	21.861	0.03785	1.84681	5 X
K12H21Z	17.0	0.15	K13B4	73.444	146.030	152.674	12.914	0.23224	2.54572	4 X
K12H27R	18.1	0.15	K13B4	156.361	187.974	45.031	4.800	0.15874	2.20602	2 S
K12H31X	17.7	0.15	K13B4	81.767	310.040	27.563	21.521	0.05732	1.92074	4 S
K12H41M	16.6	0.15	K13B4	50.258	192.571	133.881	13.243	0.18076	2.67735	6 X
K12H48J	17.9	0.15	K13B4	203.787	161.059	58.411	22.383	0.04691	1.92751	3 X
K12H55O	18.0	0.15	K13B4	293.826	265.899	207.814	21.404	0.04784	1.92865	2 X
K12H69D	16.3	0.15	K13B4	27.934	246.844	107.236	12.994	0.19808	2.57825	6 X
K12H73Q	17.8	0.15	K13B4	286.976	283.017	213.236	20.578	0.06642	1.95978	4 X
K12J10Q	18.1	0.15	K13B4	130.836	175.698	74.672	4.208	0.19265	2.41640	6 X
K12J57G	17.2	0.15	K13B4	105.800	176.223	94.579	8.957	0.20382	2.58803	4 X
K12K46F	16.1	0.15	K13B4	124.263	31.817	210.707	13.468	0.22031	2.66078	3 X
K12M05Z	15.8	0.15	K13B4	31.986	112.214	238.511	25.221	0.25618	3.18161	2 X
K12M07W	16.2	0.15	K13B4	57.965	241.365	99.880	4.834	0.20860	2.56990	6 X
K12O05Y	16.6	0.15	K13B4	96.393	279.174	50.981	15.191	0.13951	2.52456	5 X
K12P12K	16.1	0.15	K13B4	294.954	186.074	313.616	8.681	0.03601	2.99041	6 X
K12P34W	16.5	0.15	K13B4	47.526	205.790	170.451	15.173	0.12101	2.83431	4 X
K12Q19Y	15.8	0.15	K13B4	250.215	198.038	339.142	7.972	0.02380	3.01711	5 X
K12Q21D	15.8	0.15	K13B4	13.293	121.769	296.551	8.436	0.08746	3.17745	6 X
K12Q52J	16.1	0.15	K13B4	136.836	295.105	353.594	8.730	0.10826	2.85794	5 X
K12R12A	15.8	0.15	K13B4	128.314	358.840	300.129	8.377	0.09425	3.04759	8 X
K12R12E	16.2	0.15	K13B4	132.064	5.760	284.674	8.237	0.15830	2.71140	4 X
K12R27Z	15.3	0.15	K13B4	114.226	353.947	311.486	10.215	0.07554	3.08122	7 X

K12R29E	15.8	0.15	K13B4	101.820	338.881	336.078	8.490	0.09621	3.10987	6 X
K12R38R	15.7	0.15	K13B4	81.920	114.129	275.113	13.118	0.11030	2.70001	5 X
K12S04W	15.6	0.15	K13B4	158.042	237.568	34.406	12.010	0.14417	3.18100	4 X
K12T67Q	13.9	0.15	K13B4	77.898	331.315	16.535	11.961	0.06888	4.80981	5 X
K12TI6V	16.4	0.15	K13B4	64.776	176.839	237.241	8.383	0.08507	3.14294	4 X
K12TS8Z	15.7	0.15	K13B4	81.561	55.706	300.750	10.487	0.12541	3.51029	4 X
K12U36J	15.8	0.15	K13B4	64.689	192.457	219.643	7.138	0.09168	3.14024	7 X
K12UG6W	15.2	0.15	K13B4	181.566	350.086	271.188	14.167	0.12358	3.08151	5 X
K12V39D	15.8	0.15	K13B4	157.603	51.318	274.899	13.024	0.08821	2.65586	5 X
K12V39V	16.1	0.15	K13B4	41.096	190.883	251.106	9.773	0.05947	3.15755	5 X
K12V77P	16.4	0.15	K13B4	25.778	344.618	143.891	6.540	0.12446	2.56816	8 X
K12V84S	15.9	0.15	K13B4	12.570	233.366	238.749	9.174	0.04423	3.07923	3 X
K12VB2Z	16.1	0.15	K13B4	111.961	103.492	262.890	10.666	0.12153	3.06797	5 X
K12X85K	15.8	0.15	K13B4	33.103	332.766	148.476	13.410	0.15893	2.91624	6 X
K12X96D	16.4	0.15	K13B4	321.361	103.477	102.215	8.771	0.11486	2.58312	6 X
K13B19E	19.8	0.15	K13B4	213.848	311.956	309.289	31.006	0.29746	0.91139	2 X
K13M08R	15.2	0.15	K13B4	213.308	191.557	303.556	26.789	0.13169	3.17750	2 X
K13P71D	18.2	0.15	K13B4	351.238	68.295	308.684	2.262	0.21945	2.29500	3 X
K13Q02U	18.5	0.15	K13B4	25.582	43.673	275.550	2.086	0.24001	2.32537	3 X
K13Q12G	16.1	0.15	K13B4	65.412	284.250	336.840	14.691	0.16997	3.08672	3 X
K13R51T	16.7	0.15	K13B4	338.519	195.834	217.304	7.854	0.13069	2.71953	2 X
K13S83V	16.5	0.15	K13B4	327.282	202.071	204.883	12.708	0.07862	2.77369	4 X
K13TC0E	16.7	0.15	K13B4	4.095	345.032	25.165	12.802	0.18708	2.69119	5 X
K13TD6O	15.9	0.15	K13B4	16.017	309.435	80.781	26.284	0.15183	2.77331	3 X
K13U03R	17.0	0.15	K13B4	353.799	11.569	52.747	24.952	0.60156	3.18334	3 X
K13U09E	18.7	0.15	K13B4	5.966	189.794	203.091	8.890	0.42714	2.65931	2 S
K13V18D	18.1	0.15	K13B4	5.574	85.803	306.339	4.718	0.14589	2.24126	6 X

## New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc C
K13L28W	18.8	0.15	K13B4	7.317	237.302	136.390	30.674	0.58648	1.67825	177 X
K13N00J	21.9	0.15	K13B4	10.149	140.072	238.989	4.144	0.28219	1.28434	158 X
K13P43L	16.9	0.15	K13B4	26.063	46.704	289.791	15.856	0.37402	2.58285	107 S
K13R23T	17.1	0.15	K13B4	337.629	210.003	200.639	2.157	0.19114	2.45049	92 X
K13S00F	19.2	0.15	K13B4	1.138	162.843	250.562	14.576	0.61790	2.26770	80 X
K13TB1E	17.5	0.15	K13B4	3.906	74.226	325.278	2.827	0.20860	2.65124	61 X
K13TB1V	17.7	0.15	K13B4	10.213	11.236	16.098	6.015	0.24666	2.56870	79 S
K13TD2R	20.1	0.15	K13B4	27.478	330.032	35.431	31.957	0.36152	1.45053	58 X
K13TD5V	19.5	0.15	K13B4	11.638	23.688	333.462	6.744	0.59057	2.43133	59 X
K13U03T	27.1	0.15	K13B4	33.733	102.694	200.586	0.983	0.56070	1.52249	2 S
K13U03V	26.8	0.15	K13B4	325.649	284.298	213.063	1.295	0.54546	1.26863	4 S
K13V04M	20.5	0.15	K13B4	331.576	249.780	195.454	18.715	0.25450	1.67009	35 X
K13V04V	20.0	0.15	K13B4	3.568	167.665	231.921	19.104	0.55897	2.75938	33 X
K13V10C	24.7	0.15	K13B4	330.431	239.494	224.695	2.063	0.36651	1.56986	28 X
K13V12P	24.4	0.15	K13B4	350.587	220.451	230.323	6.738	0.63280	2.74587	27 X
K13V13F	21.3	0.15	K13B4	338.504	320.736	162.465	11.131	0.55781	2.22682	27 X
K13V13J	23.9	0.15	K13B4	18.970	291.824	37.837	10.204	0.58163	1.86175	23 X
K13W00H	21.3	0.15	K13B4	358.175	339.304	67.272	20.604	0.45826	2.26268	13 X
K13W00Y	26.3	0.15	K13B4	348.051	1.416	63.232	1.236	0.33947	1.52151	10 X
K13W43R	21.8	0.15	K13B4	43.501	42.035	280.263	5.906	0.36692	1.41281	11 X
K13W43T	22.5	0.15	K13B4	9.929	84.489	239.420	16.616	0.74733	2.34399	10 X
K13W43X	22.6	0.15	K13B4	9.670	83.200	212.942	3.582	0.85181	2.08987	9 X
K13W44C	22.2	0.15	K13B4	345.886	213.817	242.466	7.011	0.53767	2.53582	10 X
K13W44T	19.3	0.15	K13B4	327.618	325.744	182.731	12.168	0.56725	2.25345	9 X
K13W44X	25.7	0.15	K13B4	0.466	139.485	252.409	3.891	0.66545	2.84568	9 X
K13W44Y	25.9	0.15	K13B4	344.722	185.918	248.533	8.631	0.35392	1.61038	8 X
K13W44Z	25.7	0.15	K13B4	9.382	125.284	242.970	11.364	0.46200	1.60143	8 X
K13W45R	25.6	0.15	K13B4	241.952	302.853	242.677	4.384	0.22036	1.01421	9 X
K13W45T	20.3	0.15	K13B4	309.852	121.874	33.193	9.355	0.46719	1.63027	8 X
K13W45U	20.3	0.15	K13B4	303.137	154.118	35.936	5.742	0.58366	1.40780	8 X
K13W45W	25.5	0.15	K13B4	352.046	348.446	74.704	5.697	0.47058	1.93168	7 X
K13W67S	23.3	0.15	K13B4	6.667	294.377	66.527	15.209	0.67718	2.51529	7 X
K13W67T	17.8	0.15	K13B4	13.710	99.210	322.828	21.480	0.19212	1.03427	7 X
K13WA6M	19.3	0.15	K13B4	34.616	168.677	142.825	5.737	0.63569	2.41141	7 K

## New one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc C
K13N22D	16.9	0.15	K1395	342.055	88.284	332.740	10.227	0.20619	2.69887	138 S
K13N24H	18.6	0.15	K1377	327.922	256.675	81.633	6.094	0.14287	2.70308	30 W
K13S00A	17.1	0.15	K139P	12.434	352.553	5.534	5.092	0.29909	2.58707	59 S
K13S28V	15.5	0.15	K13AF	354.116	262.462	139.705	11.448	0.10768	3.13458	65 S
K13S81H	17.3	0.15	K13AF	14.326	336.711	40.224	14.124	0.24616	2.64825	58 S
K13S81P	17.1	0.15	K13AF	355.648	193.200	222.397	4.601	0.24467	2.62963	66 S
K13S81T	16.6	0.15	K13AF	8.816	344.753	50.301	9.690	0.20692	2.74264	58 S
K13T99Z	16.4	0.15	K13AF	332.153	68.243	13.522	9.183	0.21518	2.74835	57 S
K13TC9O	15.7	0.15	K13AF	11.074	284.780	109.974	14.098	0.20541	2.72562	58 S
K13TD3F	17.1	0.15	K13B4	41.954	206.369	148.940	6.548	0.12430	2.35596	58 S
K13TD8S	17.2	0.15	K13AF	334.480	237.025	201.762	22.535	0.20603	2.33351	28 S
K13TD8Z	17.8	0.15	K13B4	341.780	8.399	60.052	8.220	0.24828	2.37022	57 S
K13U05S	16.9	0.15	K13AF	10.556	153.664	223.183	4.831	0.09842	2.65340	7 S
K13U09Q	17.6	0.15	K13B4	36.596	110.823	225.554	7.837	0.27607	2.71120	38 S
K13U11P	16.8	0.15	K13B4	354.578	140.758	264.823	18.201	0.10129	2.33602	14 S
K13U12A	16.6	0.15	K13B4	323.813	195.813	249.113	6.300	0.11755	3.11380	39 S
K13U12C	16.9	0.15	K13AF	1.540	350.372	38.421	14.742	0.24144	2.65639	31 S
K13U12D	16.2	0.15	K13AF	34.553	356.691	345.292	4.641	0.33201	2.60430	51 S
K13U12K	16.6	0.15	K13B4	345.360	192.818	230.716	13.339	0.23059	2.67880	48 S
K13U12L	17.3	0.15	K13B4	355.788	317.143	93.211	3.659	0.19084	2.35464	36 S

K13V02B	17.7	0.15	K13B4	322.196	21.284	70.321	22.801	0.07510	1.91835	38 S
K13V05X	18.3	0.15	K13B4	5.219	357.508	29.960	12.897	0.36143	2.77833	3 S
K13V07D	16.2	0.15	K13B4	346.137	81.531	335.559	10.509	0.13635	3.06102	10 S
K13V08P	16.5	0.15	K13B4	8.297	326.161	68.173	4.529	0.31764	2.98657	22 S
K13V08U	17.3	0.15	K13B4	20.382	271.872	95.507	4.124	0.36925	2.51126	7 S
K13V10W	17.3	0.15	K13B4	36.065	257.678	90.279	7.139	0.22876	2.89881	3 S
K13V13U	17.9	0.15	K13B4	22.673	128.197	256.737	16.377	0.07801	1.90214	22 S
K13V14L	16.0	0.15	K13B4	29.129	320.189	52.407	9.970	0.19017	3.20104	7 S
K13V15A	17.0	0.15	K13B4	27.325	152.751	213.556	11.291	0.14197	2.60611	8 S
K13V15E	16.0	0.15	K13B4	347.507	9.073	49.525	16.856	0.12128	2.86305	8 S
K13V15J	17.5	0.15	K13B4	39.580	256.791	101.120	7.182	0.16510	2.34529	8 S
K13V16R	16.2	0.15	K13B4	313.227	213.136	257.939	14.069	0.22609	2.70278	7 S
K13V16S	16.7	0.15	K13B4	359.752	24.827	18.097	5.697	0.24800	2.99787	7 S
K13V16T	17.6	0.15	K13B4	353.683	334.566	77.121	8.182	0.16814	2.22226	4 S
K13V17T	16.8	0.15	K13BO	20.569	111.408	268.949	5.446	0.32435	3.15344	19 S
K13V17X	17.1	0.15	K13B4	5.842	25.356	18.404	5.925	0.23543	2.57596	25 S
K13V18K	15.9	0.15	K13B4	43.991	99.442	260.487	6.205	0.14142	3.06091	31 S
K13V18O	16.5	0.15	K13AF	36.558	313.599	29.971	13.036	0.18173	2.66136	7 S
K13V18R	16.8	0.15	K13B4	14.666	333.137	36.848	30.851	0.22101	2.55993	4 S
K13V18S	16.2	0.15	K13B4	13.474	272.275	107.243	10.467	0.24359	2.75051	17 S
K13V18T	15.2	0.15	K13B4	12.855	80.353	316.601	7.765	0.08020	3.17506	8 S
K13V18Z	16.0	0.15	K13B4	350.202	325.199	95.029	4.972	0.11000	3.01943	34 S
K13V19C	17.5	0.15	K13B4	355.347	345.526	71.490	25.312	0.15538	2.28310	18 S
K13V19D	16.0	0.15	K13B4	346.225	179.811	252.878	18.562	0.24612	3.05541	20 S
K13V19E	17.9	0.15	K13AF	358.711	163.689	230.838	7.929	0.31921	2.71063	7 S
K13V19G	18.3	0.15	K13AF	11.107	315.445	56.653	6.150	0.25451	2.23886	19 S
K13V19K	16.8	0.15	K13B4	21.822	248.213	114.574	8.754	0.32861	2.75904	7 S
K13V19S	16.1	0.15	K13B4	337.151	20.860	55.719	7.419	0.16848	3.06690	6 S
K13V19T	16.9	0.15	K13B4	62.246	283.055	42.309	8.245	0.14062	2.30951	6 S
K13V19Z	16.1	0.15	K13AF	10.089	347.003	30.138	15.950	0.21438	3.01275	20 S
K13V20A	17.4	0.15	K13AF	350.997	314.950	90.888	6.052	0.24754	2.47743	14 S
K13V20C	17.1	0.15	K13B4	172.751	169.205	63.240	23.883	0.01998	2.00700	28 S
K13V20J	15.9	0.15	K13B4	32.276	316.475	51.465	14.214	0.18871	2.60256	24 S
K13V20K	18.1	0.15	K13B4	0.042	4.675	45.553	2.222	0.17241	2.32364	20 S
K13V20N	18.1	0.15	K13B4	353.994	21.335	33.672	1.766	0.25590	2.41628	34 S
K13V20Q	18.3	0.15	K13B4	344.775	38.836	23.751	20.106	0.11297	1.95057	9 S
K13V20R	16.2	0.15	K13B4	30.493	324.190	41.581	14.009	0.10762	3.01925	8ES
K13V20U	17.3	0.15	K13B4	6.427	231.671	169.835	12.366	0.29772	2.64583	21 S
K13V20V	16.4	0.15	K13B4	315.549	40.187	80.741	32.784	0.18029	2.58865	17 S
K13V20Y	15.7	0.15	K13B4	324.428	227.372	247.440	11.625	0.16728	3.15899	13 S
K13V21A	15.0	0.15	K13AF	15.826	315.775	50.212	23.328	0.08082	3.23210	40 S
K13V21B	16.4	0.15	K13AF	22.224	269.506	86.466	8.626	0.22897	2.77941	13 S
K13V21C	15.7	0.15	K13AF	357.894	122.023	281.459	17.726	0.30266	3.14306	28 S
K13V21D	16.0	0.15	K13B4	2.528	252.231	155.184	9.894	0.19532	3.03061	16 S
K13W00R	18.2	0.15	K13B4	359.543	160.387	257.435	18.981	0.06639	1.85226	32 S
K13W01F	16.1	0.15	K13BO	28.162	269.175	103.806	7.198	0.15754	3.11142	5 S
K13W02A	16.9	0.15	K13B4	39.489	261.686	83.586	13.775	0.27944	2.62742	15 S
K13W02S	16.1	0.15	K13B4	303.634	253.010	233.623	12.933	0.15759	2.69730	23 S
K13W03K	17.8	0.15	K13B4	17.852	344.067	37.122	5.767	0.15096	2.16595	28 S
K13W03X	16.5	0.15	K13B4	323.210	237.177	244.405	12.123	0.25812	2.64794	32 S
K13W04F	16.2	0.15	K13BO	356.341	225.553	207.541	12.237	0.29111	2.61979	4 S
K13W04W	16.7	0.15	K13B4	26.042	132.075	237.843	20.627	0.27109	3.10167	26 S
K13W05Q	16.6	0.15	K13BO	8.633	303.355	105.027	15.520	0.15753	2.56624	9 S
K13W07B	17.4	0.15	K13BO	4.829	329.424	87.057	15.327	0.24110	2.65650	9 S
K13W07L	18.2	0.15	K13B4	339.937	35.241	47.664	5.850	0.24153	2.34813	27 S
K13W12E	16.9	0.15	K13BO	38.461	249.876	116.023	13.711	0.21154	2.61730	6 S
K13W13G	16.5	0.15	K13BO	274.690	31.893	132.569	2.970	0.09792	2.97833	9 X
K13W21P	14.9	0.15	K13B4	321.720	22.567	92.679	14.402	0.23623	3.97987	22 S
K13W35D	16.4	0.15	K13BO	325.809	338.395	102.028	14.952	0.07204	3.17806	9 X
K13W35E	16.8	0.15	K13BO	130.645	128.766	132.893	12.570	0.12505	2.64500	9 X
K13W36B	13.8	0.15	K13BO	308.750	9.245	82.164	21.756	0.03341	5.14207	8 X
K13W36D	17.4	0.15	K13BO	27.932	262.508	102.278	12.953	0.18755	2.65954	8 X
K13W40M	16.7	0.15	K13BO	359.167	8.876	59.129	9.490	0.11527	2.39906	7 S
K13W40X	16.8	0.15	K13BO	34.268	310.248	63.468	4.293	0.24984	2.53048	7 S
K13W43O	17.5	0.15	K13BO	37.758	328.095	54.408	5.365	0.16978	2.64641	7 X
K13W46G	17.3	0.15	K13BO	357.379	354.733	62.089	5.781	0.16931	2.40633	9 S
K13W47C	15.8	0.15	K13B4	17.443	155.998	234.143	12.250	0.11325	3.04657	22 S
K13W47Z	16.4	0.15	K1395	3.787	6.365	23.007	17.955	0.13561	2.75798	139 S
K13W54N	16.6	0.15	K13B4	10.676	336.688	51.054	18.708	0.24968	3.09268	30 S
K13W55K	16.6	0.15	K13BO	9.012	349.116	61.111	13.978	0.15751	2.57163	9 S
K13W56Q	16.7	0.15	K13B4	20.482	334.773	54.407	12.643	0.17848	2.62252	25 S
K13W56X	15.9	0.15	K13BO	146.024	206.575	73.615	9.130	0.00758	3.18719	7 S
K13W60H	17.3	0.15	K13BO	340.143	155.628	296.889	5.948	0.16625	2.43134	8 S
K13W60T	17.9	0.15	K13BO	24.157	140.325	245.216	23.386	0.23447	2.30665	3 S
K13W60Y	16.9	0.15	K13BO	53.117	192.742	149.553	12.791	0.08032	3.01350	8 X
K13W61H	17.6	0.15	K13B4	14.015	298.888	83.955	13.889	0.28350	2.61739	27 S
K13W61P	16.1	0.15	K13BO	318.586	197.168	281.889	10.151	0.13623	2.76422	6 S
K13W62N	16.4	0.15	K13BO	356.920	240.958	190.138	11.139	0.16321	2.63413	2 S
K13W62Z	15.9	0.15	K13B4	9.567	277.522	117.953	8.590	0.28868	3.02232	39 S
K13W63H	16.8	0.15	K13BO	32.489	163.193	273.723	16.035	0.18543	2.60125	7 S
K13W63J	16.4	0.15	K13BO	245.145	351.772	257.320	10.168	0.05880	2.62171	7 X
K13W63K	16.8	0.15	K13BO	345.539	235.136	275.285	14.968	0.24402	3.11536	6 S
K13W63Q	16.2	0.15	K13B4	20.582	316.716	60.660	11.097	0.21249	3.13702	24 S
K13W64C	18.1	0.15	K13BO	93.666	21.632	303.599	17.896	0.04430	2.01733	10 X
K13W64M	17.3	0.15	K139P	350.870	189.399	225.513	6.787	0.32073	2.59340	141 S
K13W64S	16.8	0.15	K13B4	7.690	74.962	324.813	4.504	0.16582	2.58291	22 S
K13W64W	15.7	0.15	K13BO	43.498	285.332	87.517	13.273	0.09588	2.74814	9 S



K13W64X	16.7	0.15	K13BO	30.927	151.880	229.062	16.801	0.19470	2.56152	8 S
K13W65M	16.4	0.15	K13B4	31.245	287.471	91.143	10.545	0.11772	2.61268	21 S
K13W65S	17.1	0.15	K13B4	29.561	287.960	73.201	30.137	0.31313	2.60609	24 S
K13W66B	16.8	0.15	K13B4	27.473	278.384	94.300	6.970	0.27682	2.60630	21 S
K13W66O	16.4	0.15	K13B4	9.662	337.360	57.480	9.049	0.22188	2.78398	33 S
K13W68C	17.6	0.15	K13AF	2.847	14.350	16.501	9.938	0.28999	2.26061	66 S
K13W70C	17.2	0.15	K13BO	257.157	120.113	46.118	3.110	0.01438	2.42436	7 S
K13W74E	16.8	0.15	K13BO	332.178	26.889	81.068	15.532	0.22381	2.63368	8 S
K13W77Q	16.8	0.15	K13BO	8.141	151.957	261.133	12.208	0.14417	2.53460	8 S
K13W78H	17.4	0.15	K13BO	20.916	3.949	31.771	6.764	0.17517	2.37702	8 S
K13W78L	16.4	0.15	K13BO	319.509	219.999	264.402	14.469	0.20968	3.11115	8 S
K13W78T	16.4	0.15	K13BO	355.332	20.923	51.882	17.814	0.20184	3.09738	8 S
K13W78W	17.7	0.15	K13BO	5.908	331.139	79.217	5.653	0.29493	2.56391	10 S
K13W79G	16.4	0.15	K13BO	18.121	319.174	70.710	15.842	0.25978	2.98950	8 S
K13W79R	17.9	0.15	K13BO	8.824	57.398	352.783	3.929	0.23247	2.37658	8 S
K13W79U	16.9	0.15	K13BO	351.719	39.168	42.319	11.239	0.32352	3.00024	8 S
K13W79W	15.6	0.15	K13BO	44.857	97.647	275.354	11.900	0.07763	3.08204	8 S
K13W80R	17.9	0.15	K13B4	15.586	249.408	122.534	7.280	0.35755	2.61147	36 S
K13W84S	16.6	0.15	K13BO	5.582	182.339	241.682	17.676	0.19730	3.18207	6 S
K13W86K	17.0	0.15	K13B4	19.007	297.905	71.013	19.560	0.31767	2.75902	38 S
K13W91J	16.8	0.15	K13BO	11.197	149.997	261.375	8.694	0.17367	2.94559	5 S
K13W92K	18.6	0.15	K13BO	355.721	45.258	27.285	1.586	0.18497	2.30642	5 S
K13WA3B	16.1	0.15	K13B4	0.149	181.130	222.643	10.002	0.21462	3.15230	52 S
K13WA3C	16.5	0.15	K13B4	330.490	26.851	56.701	13.941	0.13529	2.66381	34 S
K13WA3S	19.3	0.15	K13BO	4.466	12.285	43.255	1.427	0.19003	2.06150	7 S
K13WA3T	16.1	0.15	K13BO	280.142	93.188	61.552	23.075	0.10501	2.64919	7 S
K13WA4C	17.0	0.15	K13BO	25.147	317.381	65.287	9.786	0.24710	2.79422	8 S
K13WA4F	16.8	0.15	K13B4	6.885	139.668	256.715	12.892	0.20427	2.71250	28 S
K13WA4K	17.0	0.15	K13BO	10.245	64.453	339.704	6.522	0.15964	3.14268	4 S
K13WA5F	16.3	0.15	K13BO	201.095	98.799	104.293	15.046	0.09383	3.14829	6 X
K13WA5Q	17.0	0.15	K13BO	43.424	214.348	131.114	11.614	0.17766	2.70750	7 S
K13WA5Z	16.4	0.15	K13B4	31.914	280.946	83.586	25.505	0.23519	2.70261	38 S
K13WA6C	16.3	0.15	K13BO	352.593	190.301	240.314	10.355	0.21380	3.17631	5 S
K13WA6D	16.5	0.15	K13B4	10.069	277.264	116.920	8.423	0.23186	2.79266	15 S
K13WA6E	17.6	0.15	K13BO	3.678	351.316	61.553	15.319	0.26789	2.60363	10 S
K13WA6F	17.4	0.15	K13BO	42.475	277.692	81.127	4.444	0.20811	2.18992	6 S
K13WA6G	17.4	0.15	K13BO	27.186	297.075	78.487	8.976	0.27031	2.34790	6 S
K13WA6H	17.1	0.15	K13B4	6.289	196.704	220.055	9.021	0.19358	2.31591	7 S
K13WA6P	17.6	0.15	K13BO	7.564	149.466	257.936	6.497	0.30898	2.69242	8 S
K13WA6S	17.0	0.15	K13BO	344.255	9.639	79.260	15.078	0.26756	2.67755	5 S
K13WA6X	17.0	0.15	K13BO	23.124	237.659	127.753	6.925	0.39518	2.60915	10 S
K13WA6Z	17.2	0.15	K13BO	12.403	147.055	258.680	13.608	0.25361	2.54568	8 X
K13WA7D	18.5	0.15	K13BO	173.017	344.971	264.152	19.119	0.05002	1.89791	7EX
K13X00E	16.3	0.15	K13BO	342.632	201.804	235.853	20.239	0.07067	2.60244	8 S
K13X00H	16.3	0.15	K13B4	35.160	308.417	48.723	6.288	0.26535	2.59579	24 S
K13X00U	16.3	0.15	K13BO	306.212	49.838	80.190	14.650	0.08339	2.74510	9 X
K13X00Z	17.7	0.15	K13BO	326.921	288.988	178.585	3.652	0.26321	2.80833	3ES
K13X01N	17.3	0.15	K13BO	311.615	342.726	127.621	12.214	0.17218	2.61916	2 S
K13X01O	16.7	0.15	K13BO	127.914	192.689	71.460	27.104	0.10879	2.57911	2 S
K13X01P	16.9	0.15	K13BO	23.618	284.360	92.434	15.771	0.07433	2.67881	2 X
K13X01R	15.6	0.15	K13BO	74.092	174.931	142.794	13.778	0.10107	3.05824	2 S
K13X02Q	16.9	0.15	K13B4	307.416	299.515	186.410	22.595	0.28302	2.37560	54 S
K13X02S	16.4	0.15	K13B4	328.669	70.934	20.061	13.508	0.13998	2.55858	30 X
K13X02T	18.3	0.15	K13BO	318.263	238.687	236.510	15.798	0.10067	1.85109	4 S
K13X02U	15.1	0.15	K13BO	9.464	83.078	354.392	11.670	0.01207	3.09389	4 X
K13X02X	21.3	0.15	K13BO	335.035	33.498	61.747	21.756	0.14580	1.73181	10EX
K13X02Y	17.7	0.15	K13BO	342.308	353.698	77.564	34.436	0.21282	2.53772	3EX
K13X02Z	18.5	0.15	K13BO	36.873	290.294	93.570	28.441	0.08052	2.01553	3EX
K13X03A	18.6	0.15	K13BO	16.470	311.851	93.478	23.255	0.10490	1.92293	3EX
K13X03B	16.7	0.15	K13BO	291.870	266.856	240.606	19.990	0.28833	2.26241	24EX

## New observations:

J97W21B	C2013	12	06.52153	09	25	12.20	+15	41	15.1	21.3	RoEX028926
J97W21B	C2013	12	06.53271	09	25	12.07	+15	41	12.7	21.4	RoEX028926
J97W21B	C2013	12	06.54380	09	25	12.02	+15	41	08.9	21.4	RoEX028926
J99S10K	C2013	12	05.28535	00	05	28.969	-14	24	16.07	20.3	gLEX028F51
J99S10K	C2013	12	05.29780	00	05	29.713	-14	24	23.56	20.4	gLEX028F51
K06C00T	JC2013	12	06.49845	13	09	33.53	+13	54	40.1	20.7	RoEX028695
K06C00T	JC2013	12	06.50081	13	09	31.99	+13	54	45.3	20.5	RoEX028695
K06C00T	JC2013	12	06.50198	13	09	31.19	+13	54	48.3	20.3	RoEX028695
K08S01Q	C2013	12	06.02566	22	57	36.27	+03	04	21.0	20.2	VuEX028807
K08S01Q	C2013	12	06.03041	22	57	37.03	+03	04	23.5	20.2	VuEX028807
K08S01Q	C2013	12	06.03503	22	57	37.76	+03	04	25.9	20.2	VuEX028807
K10C19L	2C2013	12	04.77286501	07	10	38	+05	28	47.0	16.3	RuEX028089
K10C19L	2C2013	12	04.77495201	07	11	89	+05	28	51.3	16.3	RuEX028089
K10C19L	2C2013	12	04.77867801	07	14	59	+05	29	00.2	16.2	RuEX028089
K10C19L	2C2013	12	04.78076201	07	16	13	+05	29	04.4	15.6	RuEX028089
K10C19L	2C2013	12	04.78456301	07	18	88	+05	29	13.3	16.0	RuEX028089
K10C19L	2C2013	12	04.78664101	07	20	40	+05	29	17.8	16.0	RuEX028089
K10C19L	2C2013	12	04.82106601	07	45	42	+05	30	33.4	15.7	RuEX028089
K10C19L	KC2013	12	05.83569	01	19	30.71	+06	05	03.8	15.4	RcEX028A53
K10C19L	KC2013	12	05.83924	01	19	32.99	+06	05	11.1	15.3	RcEX028A53
K10C19L	KC2013	12	05.84467	01	19	36.42	+06	05	21.1	15.4	RcEX028A53
K10C19L	KC2013	12	05.84880	01	19	39.04	+06	05	29.5	15.2	RcEX028A53
K10C19L	C2013	12	05.86702	01	19	50.63	+06	06	03.2	15.9	VuEX028A48
K10C19L	C2013	12	05.87292	01	19	54.35	+06	06	14.6	15.9	VuEX028A48
K10C19L	C2013	12	05.87648	01	19	56.61	+06	06	21.0	15.9	VuEX028A48

K10C19L	C2013	12	05.87960	01	19	58.60	+06	06	26.8	15.9	VuEX028A48
K10K61B	C2013	11	27.31676	03	16	40.389+38	55	07.33	21.4	gLEX028F51	
K10K61B	C2013	11	27.32894	03	16	35.921+38	55	35.38	21.5	gLEX028F51	
K10001Q	C2013	12	06.02550	22	19	08.70	-41	36 14.6	20.3	VuEX028807	
K10001Q	C2013	12	06.03026	22	19	10.20	-41	36 08.0	20.2	VuEX028807	
K10001Q	C2013	12	06.03492	22	19	11.63	-41	36 02.0	20.4	VuEX028807	
K10X67Z	2C2013	12	04.72557400	06	45.85	+60	01	19.1	16.6	RuEX028089	
K10X67Z	2C2013	12	04.73123800	06	47.34	+60	01	22.9	16.9	RuEX028089	
K10X67Z	2C2013	12	04.73312800	06	47.85	+60	01	24.1	16.7	RuEX028089	
K10X67Z	2C2013	12	04.86316600	07	23.08	+60	02	38.6	17.1	RuEX028089	
K10X67Z	2C2013	12	04.86505800	07	23.68	+60	02	39.5	16.7	RuEX028089	
K10X67Z	2C2013	12	04.86694600	07	24.16	+60	02	40.4	17.5	RuEX028089	
K10X67Z	2C2013	12	04.86883100	07	24.66	+60	02	41.0	17.5	RuEX028089	
K12A10S	C2013	12	05.42085	05	12	25.635+32	37	07.40	20.6	gLEX028F51	
K12A10S	C2013	12	05.43368	05	12	24.135+32	37	09.58	20.6	gLEX028F51	
K13B19E	JC2013	10	12.48279	10	00	07.71	+32	16 14.6	21.9	RoEX028695	
K13B19E	JC2013	10	12.49531	10	00	09.79	+32	15 57.1	22.0	RoEX028695	
K13B19E	JC2013	10	12.50157	10	00	10.83	+32	15 48.5	22.0	RoEX028695	
K13L28W	C2013	12	06.33622	10	53	18.36	-38	18 12.0	20.4	VuEX028807	
K13L28W	C2013	12	06.33871	10	53	18.17	-38	18 07.2	20.4	VuEX028807	
K13L28W	C2013	12	06.34120	10	53	17.96	-38	18 02.4	20.4	VuEX028807	
K13N00J	2C2013	12	04.94871705	55	11.28	-06	31	42.4	15.7	RuEX028089	
K13N00J	2C2013	12	04.95025505	55	11.17	-06	31	35.8	15.5	RuEX028089	
K13N00J	2C2013	12	04.95179505	55	11.01	-06	31	29.4	15.9	RuEX028089	
K13N00J	2C2013	12	04.95333405	55	10.84	-06	31	21.9	15.6	RuEX028089	
K13N00J	2C2013	12	04.95487305	55	10.69	-06	31	15.1	15.6	RuEX028089	
K13N00J	2C2013	12	04.95818205	55	10.38	-06	31	00.8	17.0	RuEX028089	
K13N00J	2C2013	12	04.95972305	55	10.19	-06	30	54.2	15.8	RuEX028089	
K13N00J	2C2013	12	04.96353405	55	09.79	-06	30	37.0	15.5	RuEX028089	
K13N00J	2C2013	12	04.96508205	55	09.65	-06	30	29.8	16.4	RuEX028089	
K13N00J	C2013	12	05.88721	05	54	52.55	-05	28 20.0	16.2	VuEX028A48	
K13N00J	C2013	12	05.88977	05	54	52.36	-05	28 10.7	16.2	VuEX028A48	
K13N00J	C2013	12	05.89197	05	54	52.23	-05	28 03.4	16.2	VuEX028A48	
K13N00J	C2013	12	05.89416	05	54	52.06	-05	27 54.4	16.3	VuEX028A48	
K13N00J	KC2013	12	06.11458	05	54	46.97	-05	10 12.3	16.2	VuEX028X14	
K13N00J	KC2013	12	06.12174	05	54	46.29	-05	09 47.0	16.4	VuEX028X14	
K13N00J	KC2013	12	06.13241	05	54	45.33	-05	09 10.3	16.2	VuEX028X14	
K13S00F	C2013	12	06.33814	11	24	46.52	-13	19 22.9	20.6	VuEX028807	
K13S00F	C2013	12	06.34271	11	24	46.65	-13	19 32.0	20.3	VuEX028807	
K13S00F	C2013	12	06.34762	11	24	46.80	-13	19 41.4	20.3	VuEX028807	
K13TD2R	JC2013	12	06.43388	13	22	11.92	+69	17 24.3	20.5	RoEX028695	
K13TD2R	JC2013	12	06.43783	13	22	13.01	+69	17 28.6	20.6	RoEX028695	
K13TD2R	JC2013	12	06.44177	13	22	14.11	+69	17 32.9	20.7	RoEX028695	
K13TD2R	JC2013	12	06.44572	13	22	15.19	+69	17 37.1	20.8	RoEX028695	
K13TD5V	JC2013	12	06.37374	04	18	56.44	+44	03 28.4	18.7	RoEX028695	
K13TD5V	JC2013	12	06.37536	04	18	56.34	+44	03 26.1	18.7	RoEX028695	
K13TD5V	JC2013	12	06.37698	04	18	56.25	+44	03 23.7	18.6	RoEX028695	
K13TD5V	JC2013	12	06.37806	04	18	56.21	+44	03 22.3	18.6	RoEX028695	
K13U03R	KC2013	12	05.78674	01	09	28.17	+19	24 37.3	16.2	RuEX028J27	
K13U03R	KC2013	12	05.79381	01	09	27.96	+19	25 06.6	16.4	RuEX028J27	
K13U03R	KC2013	12	05.80102	01	09	27.74	+19	25 36.3	16.3	RuEX028J27	
K13U03T	C2013	10	26.26715	02	26	55.07	+09	37 26.4	21.6	VqEX028G96	
K13U03T	C2013	10	26.27213	02	26	52.81	+09	37 28.5	21.8	VqEX028G96	
K13U03T	C2013	10	26.27710	02	26	50.65	+09	37 29.6	20.1	VqEX028G96	
K13U03T	C2013	10	26.28209	02	26	48.48	+09	37 30.7	20.9	VqEX028G96	
K13U03V	C2013	10	26.26502	02	46	18.47	+16	23 28.0	20.1	VqEX028G96	
K13U03V	C2013	10	26.26999	02	46	19.01	+16	23 21.4	20.2	VqEX028G96	
K13U03V	C2013	10	26.27497	02	46	19.54	+16	23 15.0	20.6	VqEX028G96	
K13U03V	C2013	10	26.27994	02	46	20.08	+16	23 08.7	20.2	VqEX028G96	
K13V04M	C2013	12	06.06182	02	13	47.72	-28	12 04.5	21.4	VuEX028807	
K13V04M	C2013	12	06.06733	02	13	47.98	-28	12 06.8	21.4	VuEX028807	
K13V04M	C2013	12	06.07281	02	13	48.22	-28	12 09.1	21.4	VuEX028807	
K13V04V	C2013	12	06.33934	06	24	06.57	-07	55 28.3	19.7	VuEX028807	
K13V04V	C2013	12	06.34187	06	24	06.45	-07	55 33.2	19.7	VuEX028807	
K13V04V	C2013	12	06.34440	06	24	06.33	-07	55 38.1	19.5	VuEX028807	
K13V04V	C2013	12	06.34691	06	24	06.21	-07	55 42.9	19.5	VuEX028807	
K13V10C	JC2013	12	06.27700	04	42	48.40	+00	56 04.3	18.9	RoEX028695	
K13V10C	JC2013	12	06.28092	04	42	50.24	+00	55 44.4	18.9	RoEX028695	
K13V10C	JC2013	12	06.28212	04	42	50.80	+00	55 38.5	18.9	RoEX028695	
K13V10C	JC2013	12	06.28331	04	42	51.37	+00	55 32.5	18.9	RoEX028695	
K13V12P	C2013	12	06.29524	08	06	04.52	-23	51 16.3		uEX028807	
K13V12P	C2013	12	06.30671	08	06	13.51	-23	52 10.7	21.1	VuEX028807	
K13V13F	C2013	12	06.27624	06	22	25.47	-38	54 34.4	20.4	VuEX028807	
K13V13F	C2013	12	06.27876	06	22	26.10	-38	54 43.3	20.5	VuEX028807	
K13V13F	C2013	12	06.28130	06	22	26.74	-38	54 52.1	20.3	VuEX028807	
K13V13F	C2013	12	06.28383	06	22	27.38	-38	55 00.9	20.2	VuEX028807	
K13V13F	C2013	12	06.28633	06	22	28.00	-38	55 09.5	20.4	VuEX028807	
K13V13J	2C2013	12	03.38341802	27	25.420+32	52	45.92	23.1	RtEX028568		
K13V13J	2C2013	12	03.38827202	27	25.603+32	52	45.55	23.1	RtEX028568		
K13V13J	2C2013	12	03.39212602	27	25.739+32	52	45.17	23.2	RtEX028568		
K13W00H	KC2013	12	05.84841303	10	33.13	+19	56 07.3	19.8	VqEX028Z81		
K13W00H	KC2013	12	05.89872003	10	30.70	+19	59 57.7		qEX028Z81		
K13W00H	KC2013	12	05.95169303	10	28.09	+20	03 59.7	19.8	VqEX028Z81		
K13W00H	JC2013	12	06.40977	03	10	09.60	+20	38 31.2	19.2	RoEX028695	
K13W00H	JC2013	12	06.41141	03	10	09.52	+20	38 38.3	19.3	RoEX028695	
K13W00H	JC2013	12	06.41224	03	10	09.49	+20	38 42.0	19.2	RoEX028695	
K13W00H	JC2013	12	06.41306	03	10	09.45	+20	38 45.8	19.3	RoEX028695	

K13W00Y	JC2013	12	06.38478	08	10	55.50	+28	19	51.4	20.3	RoEX028695
K13W00Y	JC2013	12	06.38560	08	10	55.89	+28	19	50.7	20.2	RoEX028695
K13W00Y	JC2013	12	06.38725	08	10	56.69	+28	19	49.8	20.5	RoEX028695
K13W00Y	JC2013	12	06.38807	08	10	57.09	+28	19	49.2	20.5	RoEX028695
K13W43R	JC2013	12	06.22768	03	00	46.54	+28	35	05.1	20.9	RoEX028695
K13W43R	JC2013	12	06.22886	03	00	46.53	+28	35	03.4	20.9	RoEX028695
K13W43R	JC2013	12	06.23004	03	00	46.51	+28	35	01.9	20.6	RoEX028695
K13W43R	JC2013	12	06.23122	03	00	46.48	+28	35	00.3	20.8	RoEX028695
K13W43T	JC2013	12	06.18575	03	31	01.89	+07	36	54.7	21.5	RoEX028695
K13W43T	JC2013	12	06.18948	03	31	01.87	+07	36	51.3	21.5	RoEX028695
K13W43T	JC2013	12	06.19321	03	31	01.85	+07	36	47.7	21.3	RoEX028695
K13W43T	JC2013	12	06.19693	03	31	01.84	+07	36	43.8	21.2	RoEX028695
K13W43T	KC2013	12	06.28213	03	31	01.45	+07	35	18.2	21.3	RoEX028291
K13W43T	KC2013	12	06.28664	03	31	01.43	+07	35	13.4	21.6	RoEX028291
K13W43T	KC2013	12	06.29115	03	31	01.43	+07	35	08.8	20.7	RoEX028291
K13W43X	JC2013	12	06.24497	03	12	45.83	+10	05	35.8	21.6	RoEX028695
K13W43X	JC2013	12	06.24822	03	12	45.55	+10	05	37.6	21.5	RoEX028695
K13W43X	JC2013	12	06.25147	03	12	45.26	+10	05	39.2	21.5	RoEX028695
K13W43X	JC2013	12	06.25472	03	12	45.00	+10	05	41.0	21.4	RoEX028695
K13W44C	C2013	12	06.13528	04	10	22.50	+14	46	26.0	19.7	VuEX028807
K13W44C	C2013	12	06.13837	04	10	22.76	+14	46	19.8	18.5	VuEX028807
K13W44C	C2013	12	06.14145	04	10	23.02	+14	46	13.6	19.0	VuEX028807
K13W44C	C2013	12	06.14455	04	10	23.29	+14	46	07.3	19.2	VuEX028807
K13W44C	C2013	12	06.14769	04	10	23.57	+14	46	01.0	19.2	VuEX028807
K13W44T	C2013	12	06.04199	04	10	03.57	-14	57	09.2	20.0	VuEX028807
K13W44T	C2013	12	06.04450	04	10	03.36	-14	57	13.3	19.5	VuEX028807
K13W44T	C2013	12	06.04702	04	10	03.14	-14	57	17.5	19.5	VuEX028807
K13W44T	C2013	12	06.04953	04	10	02.94	-14	57	21.9	19.5	VuEX028807
K13W44T	C2013	12	06.05204	04	10	02.72	-14	57	26.3	19.5	VuEX028807
K13W44T	JC2013	12	06.26183	04	09	45.86	-15	03	38.9	19.3	RoEX028695
K13W44T	JC2013	12	06.26310	04	09	45.76	-15	03	41.0	19.5	RoEX028695
K13W44T	JC2013	12	06.26370	04	09	45.71	-15	03	41.9	19.4	RoEX028695
K13W44T	JC2013	12	06.26490	04	09	45.60	-15	03	44.0	19.4	RoEX028695
K13W44X	JC2013	12	06.34615	06	07	46.74	+20	44	24.2	21.4	RoEX028695
K13W44X	JC2013	12	06.34801	06	07	46.96	+20	44	19.6	21.0	RoEX028695
K13W44X	JC2013	12	06.34988	06	07	47.14	+20	44	14.3	21.2	RoEX028695
K13W44X	JC2013	12	06.35175	06	07	47.37	+20	44	09.6	21.1	RoEX028695
K13W44Y	C2013	12	06.37060	06	04	27.51	+05	51	31.0	21.3	RoEX028926
K13W44Y	C2013	12	06.37399	06	04	28.77	+05	50	59.5	21.0	RoEX028926
K13W44Y	C2013	12	06.37737	06	04	30.10	+05	50	29.0	20.7	RoEX028926
K13W44Z	JC2013	12	06.29543	05	14	11.84	-06	23	12.5	22.0	RoEX028695
K13W44Z	JC2013	12	06.30333	05	14	11.72	-06	23	15.5	21.8	RoEX028695
K13W44Z	JC2013	12	06.31912	05	14	11.41	-06	23	22.1	21.6	RoEX028695
K13W44Z	JC2013	12	06.32702	05	14	11.29	-06	23	25.4	21.7	RoEX028695
K13W45R	JC2013	12	06.27219	04	37	49.14	+08	36	01.4	20.3	RoEX028695
K13W45R	JC2013	12	06.27301	04	37	48.86	+08	35	56.1	20.4	RoEX028695
K13W45R	JC2013	12	06.27391	04	37	48.57	+08	35	50.2	20.6	RoEX028695
K13W45T	JC2013	12	06.20301	02	50	31.35	+44	09	34.9	18.9	RoEX028695
K13W45T	JC2013	12	06.20463	02	50	30.82	+44	09	37.9	18.8	RoEX028695
K13W45U	C2013	12	06.41831	09	29	06.09	+37	38	21.0	18.8	RoEX028926
K13W45U	C2013	12	06.42367	09	29	09.68	+37	38	26.3	18.8	RoEX028926
K13W45U	C2013	12	06.42760	09	29	12.33	+37	38	30.4	18.9	RoEX028926
K13W45W	JC2013	12	06.36605	06	48	30.62	+24	37	30.6	19.9	RoEX028695
K13W45W	JC2013	12	06.36735	06	48	31.40	+24	37	40.3	19.5	RoEX028695
K13W45W	JC2013	12	06.36800	06	48	31.82	+24	37	45.1	19.6	RoEX028695
K13W45W	JC2013	12	06.36864	06	48	32.23	+24	37	49.9	19.6	RoEX028695
K13W45W	C2013	12	06.41032	06	48	58.04	+24	42	57.5	19.6	RoEX028926
K13W45W	C2013	12	06.41312	06	48	59.79	+24	43	17.7	19.5	RoEX028926
K13W45W	C2013	12	06.41590	06	49	01.52	+24	43	37.9	19.4	RoEX028926
K13W67S	C2013	12	06.38691	06	40	44.12	+40	01	24.0	21.4	RoEX028926
K13W67S	C2013	12	06.39432	06	40	41.89	+40	01	41.7	21.6	RoEX028926
K13W67T	KC2013	12	06.54053	13	05	56.77	+00	55	12.6	19.4	RoEX028291
K13W67T	KC2013	12	06.54197	13	05	56.96	+00	55	08.9	19.3	RoEX028291
K13W67T	KC2013	12	06.54340	13	05	57.15	+00	55	05.4	19.6	RoEX028291
01627	C2013	12	05.31111	01	29	03.934	-06	41	52.50	15.3	gLEX028F51
01627	C2013	12	05.32283	01	29	04.248	-06	41	43.12	15.2	gLEX028F51
01627	KC2013	12	06.07928	01	29	27.26	-06	31	34.1	15.7	VuEX028X14
01627	KC2013	12	06.08723	01	29	27.45	-06	31	27.9	15.9	VuEX028X14
01627	KC2013	12	06.09332	01	29	27.62	-06	31	23.1	15.4	VuEX028X14
09950	C2013	12	05.88237	04	25	19.18	+23	11	05.4	15.8	RqEX028A06
09950	C2013	12	05.90060	04	25	18.13	+23	10	37.0	15.9	RqEX028A06
09950	C2013	12	05.91780	04	25	17.10	+23	10	10.1	16.2	RqEX028A06
09950	C2013	12	05.93498	04	25	16.09	+23	09	43.4	15.9	RqEX028A06
11398	C2013	12	05.29521	01	25	20.057	-12	21	42.98	20.7	gLEX028F51
11398	C2013	12	05.30727	01	25	19.820	-12	21	39.17	20.6	gLEX028F51
16834	KC2013	12	05.96344	03	57	38.56	+27	25	34.4	17.9	RuEX028J27
16834	KC2013	12	05.96842	03	57	37.99	+27	25	30.3	17.6	RuEX028J27
16834	KC2013	12	05.98147	03	57	36.52	+27	25	19.6	17.7	RuEX028J27
20460	C2013	12	05.39388	03	54	08.878	+52	45	19.06	18.4	gLEX028F51
20460	C2013	12	05.40720	03	54	07.079	+52	45	05.93	18.5	gLEX028F51
52760	C2013	12	05.96361	07	13	37.70	+29	20	48.9	16.9	RwEX028I99
52760	C2013	12	05.96912	07	13	36.92	+29	20	49.6	17.2	RwEX028I99
52760	C2013	12	05.97463	07	13	36.14	+29	20	50.2	16.9	RwEX028I99
85818	KC2013	12	05.82712	01	22	26.33	+26	31	22.2	17.1	RuEX028J27
85818	KC2013	12	05.83780	01	22	25.77	+26	30	52.9	17.2	RuEX028J27
85818	KC2013	12	05.84431	01	22	25.40	+26	30	35.5	17.2	RuEX028J27
D7062	KC2013	12	06.00689	09	16	04.29	+58	27	57.9	17.1	RcEX028I99

D7062	KC2013	12	06.01058	09	16	05.06	+58	28	07.8	17.0	RcEX028I99
D7062	KC2013	12	06.01427	09	16	05.81	+58	28	17.7	17.1	RcEX028I99
G2004	KC2013	12	06.00544	05	14	35.51	+28	14	27.7	18.2	RuEX028J27
G2004	KC2013	12	06.01420	05	14	32.92	+28	14	28.8	17.7	RuEX028J27
G2004	KC2013	12	06.01890	05	14	31.54	+28	14	29.5	17.4	RuEX028J27
I5851	C2013	12	05.55695	06	27	05.422	+41	39	14.04	20.3	gLEX028F51
I5851	C2013	12	05.56658	06	27	04.044	+41	39	17.09	20.2	gLEX028F51
N7805	KC2013	12	06.20165812	40	07.32	+50	38	35.3		19.6	VqEX028Z81
N7805	KC2013	12	06.22469112	40	08.01	+50	38	33.3		19.4	VqEX028Z81
N7805	KC2013	12	06.24772112	40	08.73	+50	38	31.4		19.7	VqEX028Z81
P1346	2C2013	12	04.96726200	00	37.47	+41	19	18.9		14.9	RuEX028089
P1346	2C2013	12	04.96880800	00	37.19	+41	19	17.9		15.8	RuEX028089
P1346	2C2013	12	04.97034700	00	37.04	+41	19	16.9		14.9	RuEX028089
P1346	2C2013	12	04.97188600	00	36.81	+41	19	16.6		15.0	RuEX028089
P1346	2C2013	12	04.97342600	00	36.61	+41	19	15.4		15.1	RuEX028089
P1346	2C2013	12	04.97496500	00	36.38	+41	19	14.3		15.0	RuEX028089
P1346	2C2013	12	04.97774900	00	36.01	+41	19	13.3		14.9	RuEX028089
P1346	KC2013	12	05.80907	23	58	38.86	+41	13	07.6	15.2	RuEX028J27
P1346	KC2013	12	05.81616	23	58	37.74	+41	13	04.3	15.2	RuEX028J27
P1346	KC2013	12	05.82145	23	58	36.88	+41	13	01.5	15.2	RuEX028J27
b3579	C2013	12	05.33881	03	41	28.398	-04	50	12.33	20.3	gLEX028F51
b3579	C2013	12	05.35172	03	41	26.645	-04	50	02.69	20.4	gLEX028F51
b6778	C2013	12	05.62468	12	43	59.820	+03	31	42.52	19.8	wLEX028F51
b6778	C2013	12	05.62862	12	44	00.885	+03	31	39.80	19.9	wLEX028F51
b6778	C2013	12	05.63257	12	44	01.956	+03	31	37.03	19.9	wLEX028F51
b6778	C2013	12	05.63652	12	44	03.026	+03	31	34.30	19.9	wLEX028F51
b7097	C2013	12	05.80153	03	18	24.08	+23	45	57.4	17.9	qEX028D03
b7097	C2013	12	05.80865	03	18	23.01	+23	45	51.2	18.2	qEX028D03
b7097	C2013	12	05.81576	03	18	21.90	+23	45	43.8	18.2	qEX028D03
b7097	C2013	12	05.82292	03	18	20.70	+23	45	35.6	18.3	qEX028D03
b7097	KC2013	12	05.88947	03	18	09.72	+23	44	26.8	17.8	RcEX028A53
b7097	KC2013	12	05.89632	03	18	08.56	+23	44	19.2	17.5	RcEX028A53

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