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**General****MPEC 2013-A46 : DAILY ORBIT UPDATE (2013 JAN. 9 UT)**

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M.P.E.C. 2013-A46

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DAILY ORBIT UPDATE (2013 JAN. 9 UT)

Update to [MPEC 2013-A37](#)

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

**New identification:**

K02TV8M	K13A30Z									MPCW
K02VE7F	J97T13Y	K11Q69Q	K13A30D							MPCW
K04X11C	K13A31Q									MPCW
K05SH0Z	K13A29W									MPCW
K06C67S	K13A31O									MPCW
K08B26Q	K13A31C									MPCW
J99TC5V	K13A28V									MPCW
K08Y05F	K13A28R									MPCW
K08Y20Y	K13A28Z									MPCW
K09B77A	K13A28A									MPCW
K09BI5W	K13A28P									MPCW
K10HA5Y	K09A51C	K13A29M								MPCW
K13A31Z	K10G57C	K11Q11T								MPCS

**New multiple-opposition orbits:**

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp	C
J97G17W	17.2	0.15	K129U	313.951	317.818	192.070	5.620	0.19700	2.56057	6	X
J98T36O	16.6	0.15	K129U	44.961	130.716	212.000	9.222	0.32762	2.75701	4	X
J99TA9P	16.6	0.15	K129U	15.748	175.519	213.616	13.599	0.24691	2.60689	4	X
J99TC5V	16.3	0.15	K129U	49.015	24.768	351.536	9.247	0.20692	2.57554	7	X
J99VD6D	16.9	0.15	K129U	14.398	158.290	228.236	13.445	0.25910	2.64046	3	X
J99VL0S	17.1	0.15	K129U	22.490	130.690	290.927	3.303	0.25392	2.59275	5	X
J99XM7P	17.3	0.15	K129U	73.230	75.657	281.387	19.536	0.08507	1.88636	4	X
J99Y17T	16.8	0.15	K129U	15.920	69.666	347.384	28.692	0.36016	2.61758	4	X
K00AL2N	17.0	0.15	K129U	66.615	280.756	75.345	12.861	0.29018	2.59096	4	X
K00AL6U	16.7	0.15	K129U	8.935	161.581	258.530	12.025	0.23005	2.62447	3	X
K00B10C	17.2	0.15	K129U	282.771	26.671	133.486	10.154	0.20507	2.71917	3	X
K00ED7A	17.3	0.15	K129U	345.277	107.547	15.145	6.471	0.38175	2.66579	5	X
K00J19Q	16.3	0.15	K129U	327.766	42.317	151.499	15.244	0.28347	2.65278	4	X
K00Q44Y	16.9	0.15	K129U	44.838	241.413	142.670	3.518	0.33295	2.42853	5	X
K01D62E	16.4	0.15	K129U	297.076	347.685	143.764	11.925	0.11392	2.58854	4	X
K01E18B	19.3	0.15	K129U	178.033	101.934	155.490	50.059	0.18370	1.05314	2	X
K01QP5X	15.9	0.15	K129U	149.876	341.244	346.296	13.276	0.19269	2.76952	3	X
K01S13L	16.2	0.15	K129U	345.121	202.634	177.144	21.536	0.22016	3.11543	2	X

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K01SK7S	16.4	0.15	K129U	12.206	216.249	173.878	8.948	0.26370	3.03567	5 X
K01SL2N	16.6	0.15	K129U	71.111	161.932	175.114	9.612	0.16077	2.97820	6 X
K01SV9G	17.4	0.15	K129U	28.739	30.736	9.871	6.024	0.16015	2.30174	4 X
K01T85K	17.5	0.15	K129U	10.640	202.694	218.616	1.568	0.19631	2.32618	5 X
K01TC7G	18.4	0.15	K129U	351.002	232.356	187.661	4.455	0.18625	2.34505	4 X
K01TE6P	17.6	0.15	K129U	352.013	251.354	108.781	4.276	0.21080	2.40393	4 X
K01TF9M	16.3	0.15	K129U	330.383	212.032	191.957	6.388	0.21253	3.15743	3 X
K01TG0E	17.8	0.15	K129U	92.104	313.145	30.540	7.611	0.13536	2.27813	4 X
K01TL5Q	16.8	0.15	K129U	100.903	343.948	338.469	6.719	0.20947	2.29788	5 X
K01TN5H	16.1	0.15	K129U	33.899	323.594	79.458	11.390	0.12177	2.98767	6 X
K01TP5F	16.4	0.15	K129U	17.337	348.726	69.675	8.286	0.19322	2.99400	5 X
K01U40M	17.5	0.15	K129U	331.688	328.857	65.306	3.252	0.22294	2.40796	3 X
K01W67W	18.0	0.15	K129U	356.235	36.371	57.984	4.687	0.21934	2.32179	4 X
K01XD2O	17.7	0.15	K129U	13.207	221.670	212.922	1.797	0.19240	2.33010	5 X
K01XE7R	17.8	0.15	K129U	22.448	230.203	194.933	1.924	0.19516	2.33183	5 X
K01XP6V	16.1	0.15	K129U	19.531	232.972	172.963	7.579	0.30300	3.04500	4 X
K01Y02M	19.5	0.15	K129U	353.249	292.616	93.369	4.648	0.57427	2.37524	2 X
K01Y22G	18.0	0.15	K129U	1.587	150.693	297.135	4.347	0.19781	2.33136	4 X
K02A01Y	20.8	0.15	K129U	108.073	323.863	287.885	29.888	0.43777	0.77869	2 X
K02A19X	17.3	0.15	K129U	349.284	321.724	123.369	24.466	0.08155	1.96627	3 X
K02AD0E	17.0	0.15	K129U	12.627	108.514	322.874	16.922	0.11555	1.95410	3 X
K02B15C	15.5	0.15	K129U	293.313	52.285	107.200	29.004	0.24744	3.21884	3 X
K02C67R	17.7	0.15	K129U	312.731	27.500	88.871	3.843	0.20718	2.41020	3 X
K02CF9M	13.0	0.15	K129U	316.828	14.920	154.630	12.165	0.17565	5.23607	6 X
K02CJ8F	15.8	0.15	K129U	86.208	31.760	328.184	13.015	0.02904	3.21775	4 X
K02E29Y	14.9	0.15	K129U	286.211	254.424	350.350	21.082	0.22551	3.09659	6 X
K02E38A	17.8	0.15	K129U	335.093	284.723	189.965	1.968	0.15696	2.41735	5 X
K02G18H	17.0	0.15	K129U	110.763	181.298	121.505	16.311	0.13240	2.55929	4 X
K02JC1J	16.7	0.15	K129U	172.848	123.136	123.118	12.076	0.12521	2.56948	3 X
K02JC8H	16.3	0.15	K129U	244.397	189.811	58.685	26.368	0.07083	2.43243	3 X
K02L63C	15.7	0.15	K129U	104.443	44.916	307.996	11.763	0.16468	2.61439	4 X
K02N48Y	16.0	0.15	K129U	193.260	335.901	313.522	13.839	0.10317	2.54795	4 X
K02PJ6W	16.8	0.15	K129U	28.378	179.035	193.361	9.577	0.20535	2.78261	3 X
K02Q57C	16.9	0.15	K129U	71.580	166.262	160.996	8.768	0.22580	2.77185	5 X
K02Q58Z	17.0	0.15	K129U	39.790	196.027	172.851	9.664	0.11411	2.77271	4 X
K02QE0N	16.5	0.15	K129U	91.009	145.291	175.321	10.028	0.14593	2.74553	7 X
K02QF4B	16.2	0.15	K129U	310.138	80.976	314.387	7.738	0.06217	2.92219	4 X
K02R04X	17.0	0.15	K129U	19.522	92.914	343.961	11.131	0.19843	2.73086	4 X
K02S49Z	16.2	0.15	K129U	93.795	344.618	0.262	9.523	0.17052	2.72954	4 X
K02T24L	16.1	0.15	K129U	93.895	4.713	14.703	6.607	0.03192	2.69087	4 X
K02TP8H	16.0	0.15	K129U	54.277	9.852	40.160	28.965	0.21490	2.75604	3 X
K02TV8M	17.1	0.15	K129U	68.505	141.556	195.628	9.774	0.13199	2.78982	3 X
K02U09L	15.4	0.15	K129U	1.446	104.021	288.305	15.236	0.26799	2.93068	3 X
K02VE7F	16.3	0.15	K129U	77.582	348.312	359.328	9.810	0.17962	2.80124	5 X
K02XC1J	17.7	0.15	K129U	348.441	178.307	182.965	5.771	0.32372	2.27623	3 X
K03B21O	18.4	0.15	K129U	72.968	231.978	128.239	22.004	0.03990	1.84538	4 X
K03B77O	16.2	0.15	K129U	357.103	311.482	139.009	21.342	0.13456	2.96917	5 X
K03F36Z	13.2	0.15	K129U	18.241	74.149	12.738	9.829	0.06768	5.23976	5 X
K03F71A	16.1	0.15	K129U	268.119	159.086	33.856	9.546	0.03586	5.08240	5 X
K03G00W	16.8	0.15	K129U	256.070	90.642	183.237	49.432	0.47630	1.82056	5 X
K03H16R	17.3	0.15	K129U	310.317	84.031	43.753	22.015	0.11920	1.88670	5 X
K03O27Z	16.7	0.15	K129U	51.252	219.948	133.829	10.221	0.11195	2.57981	5 X
K03S79O	14.6	0.15	K129U	33.856	164.475	227.995	7.894	0.28630	3.99250	3 X
K03SK8M	16.5	0.15	K129U	77.324	22.892	327.785	13.354	0.12081	2.54720	5 X
K03SM7R	14.8	0.15	K129U	56.580	359.001	8.322	9.916	0.27061	3.98146	4 X
K03SR3V	16.4	0.15	K129U	40.396	181.842	169.246	9.253	0.24017	2.65782	4 X
K03U48K	16.4	0.15	K129U	343.283	318.507	62.541	10.252	0.22917	2.77991	2 X
K03U62J	16.6	0.15	K129U	349.525	202.701	164.827	11.007	0.31829	2.75934	3 X
K03UB2G	16.7	0.15	K129U	14.427	207.096	190.537	13.349	0.14155	2.66688	5 X
K03UV6B	16.2	0.15	K129U	355.370	93.323	303.015	7.988	0.30729	2.72473	3 X
K03UV8H	17.0	0.15	K129U	10.878	314.459	135.073	6.868	0.10206	2.56245	4 X
K03Ub8K	18.2	0.15	K129U	353.204	57.616	21.728	5.923	0.32763	2.64409	3 X
K03W00F	16.7	0.15	K129U	349.298	198.605	229.460	13.544	0.20033	2.69066	3 X
K03W73A	16.4	0.15	K129U	23.007	14.478	52.515	14.143	0.21774	2.63869	4 X
K03X22X	16.3	0.15	K129U	276.216	271.677	289.405	6.527	0.09971	2.57067	7 X
K03Y55E	17.2	0.15	K129U	27.350	186.316	232.059	0.936	0.26063	2.64461	5 X
K03YA6J	16.1	0.15	K129U	16.241	287.251	121.753	25.189	0.22485	2.74602	4 X
K03YG0X	17.5	0.15	K129U	16.590	280.313	145.824	5.308	0.15107	2.66288	5 X
K04A23Q	17.6	0.15	K129U	315.790	261.088	262.316	2.999	0.11975	2.68998	4 X
K04B02Q	15.9	0.15	K129U	285.345	41.469	129.971	15.786	0.11108	2.76058	7 X
K04B05E	16.7	0.15	K129U	39.136	90.879	315.815	11.524	0.27473	2.69202	4 X
K04B98B	16.8	0.15	K129U	328.759	329.770	155.588	8.803	0.17467	2.80745	5 X
K04D49L	16.0	0.15	K129U	358.884	110.397	350.965	7.171	0.24304	2.76514	4 X
K04G05K	16.4	0.15	K129U	296.816	139.514	55.009	15.460	0.17549	2.80429	3 X
K04L10M	15.8	0.15	K129U	114.438	58.907	233.167	27.247	0.21730	3.24868	5 X
K04P14Z	14.9	0.15	K129U	206.932	269.872	351.048	11.497	0.16961	3.19523	4 X
K04R68E	16.6	0.15	K129U	45.276	235.786	161.141	5.669	0.23188	2.37730	6 X
K04S00H	17.3	0.15	K129U	345.331	181.483	244.004	20.127	0.09126	1.87484	3 X
K04T89G	17.6	0.15	K129U	30.231	276.139	144.260	2.034	0.17503	2.37910	8 X
K04W08R	16.8	0.15	K129U	324.243	336.067	56.223	22.935	0.09567	1.97759	3 X
K04X10D	17.0	0.15	K129U	307.135	340.763	103.057	8.349	0.30435	2.61495	4 X

K04X11C	18.0	0.15	K129U	290.860	236.811	270.378	18.017	0.09002	1.91638	3 W
K04X16L	17.6	0.15	K129U	33.702	112.767	274.551	18.873	0.10309	1.91136	4 X
K05A03G	17.6	0.15	K129U	299.991	208.504	306.766	19.360	0.05783	1.90997	4 X
K05A65V	16.2	0.15	K129U	122.420	172.983	124.680	12.814	0.06910	2.60893	5 X
K05C28W	17.0	0.15	K129U	269.451	28.562	131.985	10.866	0.05674	2.63577	6 X
K05D00D	20.2	0.15	K129U	338.069	252.082	157.358	7.324	0.56829	1.93305	2 X
K05E94K	19.2	0.15	K129U	226.468	154.918	103.078	14.183	0.47971	1.97856	3 X
K05ED3B	16.5	0.15	K129U	291.368	35.302	128.332	18.304	0.09520	2.59284	5 X
K05EJ8Z	17.0	0.15	K129U	279.900	315.067	199.234	8.572	0.08948	2.71686	4 X
K05EM4A	16.9	0.15	K129U	279.383	31.337	126.969	12.449	0.11759	2.63213	4 X
K05F07N	16.3	0.15	K129U	282.077	37.307	139.070	12.559	0.11225	2.63218	4 X
K05F07Z	16.0	0.15	K129U	253.569	83.552	140.564	12.896	0.24735	2.63685	4 X
K05G33E	17.5	0.15	K129U	294.968	232.413	320.754	2.571	0.16830	2.58003	5 X
K05G45L	16.9	0.15	K129U	289.069	116.487	56.462	9.821	0.13567	2.62567	6 X
K05GC2R	16.7	0.15	K129U	35.373	48.544	354.723	8.344	0.12883	2.64399	6 X
K05GC7R	16.9	0.15	K129U	105.690	321.509	33.937	21.994	0.08326	1.96459	6 X
K05GC8U	16.7	0.15	K129U	312.697	73.214	83.431	24.218	0.07598	1.94178	4 X
K05GH3K	16.8	0.15	K129U	257.056	85.612	87.819	4.283	0.12586	2.75589	5 X
K05J63P	15.5	0.15	K129U	119.890	175.731	110.653	26.876	0.26971	2.99287	5 X
K05K07N	16.8	0.15	K129U	299.634	51.947	137.807	14.482	0.20593	2.62374	3 X
K05N50F	15.9	0.15	K129U	69.284	206.555	137.223	10.033	0.09423	3.14653	6 X
K05NC2Y	15.3	0.15	K129U	74.655	37.110	319.091	22.667	0.23185	3.16044	4 X
K05Q56M	17.6	0.15	K129U	40.792	226.645	152.963	8.317	0.24231	2.20655	5 X
K05R21U	16.0	0.15	K129U	144.439	110.358	169.609	12.379	0.08942	3.18954	6 X
K05S19Z	16.9	0.15	K129U	23.062	110.699	261.582	5.313	0.18108	2.26554	3 X
K05S67U	18.1	0.15	K129U	53.559	356.149	4.156	6.128	0.17511	2.20814	4 X
K05SG9A	18.5	0.15	K129U	17.346	156.908	221.447	5.059	0.19145	2.25651	2 X
K05SH0Z	16.4	0.15	K129U	34.118	83.719	354.801	9.691	0.09734	3.14999	5 W
K05SP4J	18.2	0.15	K129U	50.979	358.587	8.738	7.380	0.19906	2.18602	5 X
K05SR0V	15.9	0.15	K129U	106.688	224.049	133.842	8.737	0.17542	3.11113	5 X
K05T59X	17.6	0.15	K129U	0.200	55.680	17.881	6.166	0.11642	2.21801	3 X
K05UE3J	16.7	0.15	K129U	87.739	286.300	56.437	7.360	0.16290	2.22611	5 X
K05U05S	17.8	0.15	K129U	357.712	280.280	64.127	14.459	0.29888	2.37293	3 S
K05US9C	17.6	0.15	K129U	323.617	187.759	266.114	4.128	0.11989	2.28201	4 X
K05UZ8R	18.2	0.15	K129U	326.307	87.208	31.986	5.517	0.15999	2.21095	5 X
K05Uq4W	15.6	0.15	K129U	98.694	60.739	314.288	14.923	0.11169	3.17759	4 X
K05V82X	17.9	0.15	K129U	3.035	313.203	141.678	3.595	0.09147	2.20737	7 X
K05VB3P	16.7	0.15	K129U	303.285	14.939	45.842	8.273	0.09841	2.40667	7 X
K05Y49R	16.3	0.15	K129U	297.097	244.793	274.342	20.498	0.34375	2.28251	3 X
K05YA6O	18.3	0.15	K129U	14.152	169.045	268.550	3.077	0.08672	2.26388	6 X
K05YD7D	17.6	0.15	K129U	296.209	216.567	272.977	1.749	0.13383	2.34523	5 X
K05YD0V	18.1	0.15	K129U	337.113	184.691	299.490	5.234	0.16245	2.28868	3 X
K05YD4T	17.6	0.15	K129U	349.847	117.070	328.699	6.707	0.15646	2.30336	3 X
K05YD6D	16.1	0.15	K129U	317.338	54.672	41.018	3.421	0.21321	3.97444	2 S
K05YG1A	17.5	0.15	K129U	42.459	260.425	135.926	6.908	0.18233	2.26850	4 X
K06B46H	17.2	0.15	K129U	310.765	331.808	145.781	12.001	0.09609	2.39791	4 X
K06C05Y	18.0	0.15	K129U	341.393	262.146	170.170	2.385	0.16119	2.38702	3 X
K06C67S	18.0	0.15	K129U	314.287	172.587	321.301	9.089	0.10669	2.34417	3 X
K06H14A	18.4	0.15	K129U	317.543	292.597	207.420	3.333	0.23489	2.38322	3 X
K06K45G	16.2	0.15	K129U	1.024	322.787	124.696	15.255	0.06559	2.47214	5 X
K06K96N	16.5	0.15	K129U	165.770	146.922	138.531	14.518	0.08378	2.66552	8 X
K06Q71V	16.6	0.15	K129U	96.366	350.018	350.109	9.803	0.10381	2.85278	4 X
K06QD6Y	15.9	0.15	K129U	19.402	260.791	129.030	11.863	0.16681	3.03397	5 X
K06R67T	16.1	0.15	K129U	0.220	211.819	209.493	9.974	0.11515	2.94526	5 X
K06R70M	16.4	0.15	K129U	192.907	263.849	359.448	9.021	0.08829	2.79845	5 X
K06R86G	17.3	0.15	K129U	19.346	43.330	5.247	6.083	0.18714	3.04895	4 X
K06R89Z	16.6	0.15	K129U	350.978	233.847	196.275	9.141	0.18354	3.13297	3 X
K06RC2V	16.1	0.15	K129U	32.777	289.393	79.515	7.408	0.17772	3.06487	4 X
K06S01Z	16.5	0.15	K129U	15.749	169.709	248.060	8.739	0.19745	2.99758	4 X
K06SC8N	15.6	0.15	K129U	57.462	210.422	120.081	13.043	0.32600	3.08159	4 X
K06SI9O	16.9	0.15	K129U	3.840	240.461	175.231	13.041	0.06264	3.05998	4 X
K06SL6U	16.4	0.15	K129U	327.539	273.826	180.756	11.128	0.04284	3.07760	5 X
K06SM0L	16.6	0.15	K129U	156.809	69.879	196.450	11.065	0.05331	2.99733	5 X
K06SM3Z	16.2	0.15	K129U	310.173	277.735	208.195	9.518	0.07133	3.11712	5 X
K06SP2S	15.9	0.15	K129U	329.653	261.104	198.828	10.803	0.11976	3.06593	5 X
K06Sa2G	16.0	0.15	K129U	54.817	335.508	47.960	9.839	0.15929	3.04691	5 X
K06Sb7B	16.3	0.15	K129U	347.823	290.169	143.908	10.567	0.08425	3.12782	5 X
K06Sc5A	16.1	0.15	K129U	220.607	78.433	133.330	11.705	0.03721	3.06137	5 X
K06Sc6B	16.4	0.15	K129U	325.310	330.457	132.025	11.195	0.10462	3.16338	4 X
K06Sc6J	16.7	0.15	K129U	82.834	232.509	133.641	11.763	0.10548	2.97353	4 X
K06Sc7Z	16.6	0.15	K129U	122.057	154.462	144.711	10.773	0.06042	3.08165	5 X
K06Sc8S	17.1	0.15	K129U	20.013	260.641	137.601	10.727	0.10235	3.14891	5 X
K06Se2K	16.6	0.15	K129U	199.639	31.453	198.848	9.591	0.01527	3.04824	5 X
K06Se7O	16.7	0.15	K129U	127.292	306.181	13.099	5.416	0.03449	2.99988	5 X
K06Sf0N	17.2	0.15	K129U	20.014	197.201	203.165	9.454	0.09649	3.08002	4 X
K06Sf1B	17.2	0.15	K129U	47.852	27.337	7.159	8.687	0.09939	3.00428	3 X
K06T06A	16.4	0.15	K129U	48.584	5.890	7.022	8.437	0.27775	3.07518	5 X
K06T23C	16.3	0.15	K129U	39.520	168.597	205.407	12.406	0.11809	3.17152	2 X
K06T61B	16.3	0.15	K129U	55.238	153.073	197.160	13.861	0.14926	3.10112	5 X
K06T81C	16.4	0.15	K129U	24.092	52.423	11.042	8.590	0.03617	3.02620	5 X
K06T88K	16.7	0.15	K129U	58.441	9.650	19.406	9.005	0.05742	3.02039	4 X

K06TB2C	16.5	0.15	K129U	251.509	43.373	135.482	10.305	0.06301	3.09838	4	X
K06TB5G	16.0	0.15	K129U	215.362	92.331	131.823	12.095	0.16409	3.04485	6	X
K06TB5Q	16.5	0.15	K129U	292.126	355.614	145.469	13.451	0.06343	3.14600	4	X
K06TB7Y	16.1	0.15	K129U	358.240	285.918	141.470	11.833	0.10694	3.16072	3	X
K06TB9F	16.9	0.15	K129U	22.970	219.549	167.763	10.418	0.14436	3.14003	5	X
K06TB9M	16.6	0.15	K129U	6.954	271.410	162.102	10.316	0.18013	3.07051	4	X
K06TB9O	16.2	0.15	K129U	358.573	266.708	154.273	10.261	0.11490	3.15736	5	X
K06TB9S	16.6	0.15	K129U	354.735	302.602	123.828	12.288	0.04727	3.18471	4	X
K06TC0C	17.3	0.15	K129U	354.227	249.206	178.470	9.818	0.09020	3.07333	5	X
K06U21X	16.1	0.15	K129U	310.823	271.337	214.648	13.642	0.11479	3.09637	4	X
K06U36X	16.9	0.15	K129U	359.994	193.976	225.028	14.355	0.17178	3.20545	2	X
K06U37P	16.6	0.15	K129U	16.395	16.913	37.244	15.602	0.25062	3.14281	3	X
K06U62P	16.2	0.15	K129U	21.276	251.402	137.977	4.881	0.10879	3.08050	6	X
K06U77Q	16.6	0.15	K129U	98.347	337.037	11.397	8.574	0.07864	2.96727	6	X
K06UB5R	16.2	0.15	K129U	308.197	289.772	203.238	10.121	0.21554	3.12541	5	X
K06UC7W	16.4	0.15	K129U	57.123	123.017	220.888	15.385	0.24546	3.14080	4	X
K06UD2M	15.6	0.15	K129U	1.024	197.793	226.829	16.108	0.17803	3.13824	3	X
K06UF6D	15.9	0.15	K129U	6.541	248.004	164.754	10.072	0.03969	3.08446	6	X
K06UJ1Z	15.3	0.15	K129U	266.336	257.649	256.336	9.306	0.03516	3.15142	6	X
K06UP6B	16.1	0.15	K129U	350.901	49.772	47.303	14.912	0.19837	3.16428	5	X
K06UX2N	16.6	0.15	K129U	66.087	163.751	169.751	10.673	0.21210	3.11877	5	X
K06V13R	16.4	0.15	K129U	40.604	50.555	344.758	8.306	0.08718	3.10268	6	X
K06VF4B	15.3	0.15	K129U	296.186	263.072	235.221	14.615	0.05605	3.14273	4	X
K06VF5O	15.4	0.15	K129U	74.807	8.267	358.568	10.135	0.10927	3.03541	5	X
K06W58U	16.6	0.15	K129U	87.677	324.619	29.291	9.544	0.14457	3.06690	5	X
K06W85G	16.5	0.15	K129U	53.618	258.313	160.263	2.152	0.08846	3.01796	5	X
K06W87M	16.6	0.15	K129U	332.667	294.717	194.539	5.988	0.21382	3.14798	3	X
K06WH6P	15.5	0.15	K129U	110.595	73.186	222.272	21.986	0.25278	3.20092	4	X
K06X56C	15.2	0.15	K129U	65.703	305.964	109.183	11.430	0.03314	3.19155	6	X
K06Y09J	15.8	0.15	K129U	16.968	130.736	311.133	13.399	0.27114	3.16888	4	X
K07A19G	15.4	0.15	K129U	354.099	170.559	317.466	15.982	0.09237	3.19291	4	X
K07B55X	14.8	0.15	K129U	273.422	271.520	316.285	30.262	0.16218	3.20846	5	X
K07BA0C	15.7	0.15	K129U	236.422	137.559	120.767	15.217	0.09566	3.17412	3	X
K07G40Z	17.4	0.15	K129U	292.546	109.469	35.530	6.512	0.03429	2.24076	5	X
K07L17R	17.4	0.15	K129U	106.111	154.560	152.651	14.347	0.08145	2.40112	4	X
K07P50B	17.4	0.15	K129U	26.875	227.256	159.447	7.402	0.13355	2.67596	5	X
K07Q00N	16.3	0.15	K129U	55.748	207.698	130.145	15.100	0.26540	2.68541	5	X
K07R95Z	16.5	0.15	K129U	306.577	160.843	19.004	23.936	0.16489	2.46324	4	X
K07RB1O	17.5	0.15	K129U	22.680	260.891	163.186	3.675	0.20338	2.63213	3	X
K07RC3U	17.0	0.15	K129U	84.659	114.155	200.319	12.637	0.19145	2.69512	3	X
K07RF5U	17.8	0.15	K129U	5.710	87.628	343.088	14.816	0.11623	2.59164	4	X
K07RI4Z	16.6	0.15	K129U	65.144	129.074	215.004	13.564	0.08602	2.72035	4	X
K07RQ5M	17.2	0.15	K129U	2.478	215.755	178.910	9.805	0.22180	2.79099	2	X
K07RR7F	15.9	0.15	K129U	41.712	245.053	125.865	13.893	0.28216	2.68389	5	X
K07RS9Y	16.9	0.15	K129U	84.933	98.833	219.047	12.316	0.19403	2.80356	4	X
K07RT1F	16.0	0.15	K129U	341.042	60.644	53.078	17.723	0.11721	2.78403	6	X
K07RT7Q	16.8	0.15	K129U	51.606	40.250	332.975	12.644	0.21227	2.64097	4	X
K07S15V	17.0	0.15	K129U	21.090	211.822	170.708	12.365	0.19303	2.72882	3	X
K07T10V	17.2	0.15	K129U	88.274	346.582	21.341	17.610	0.16192	2.55468	4	X
K07T11C	16.8	0.15	K129U	62.987	339.678	30.297	7.342	0.18417	2.65028	6	X
K07T17R	17.3	0.15	K129U	18.096	55.772	9.368	4.245	0.31130	2.72399	5	X
K07T33B	17.0	0.15	K129U	294.491	121.457	30.632	3.913	0.03874	2.67604	5	X
K07TB9J	16.6	0.15	K129U	316.243	245.214	254.396	11.398	0.12769	2.73203	3	X
K07TG1B	16.3	0.15	K129U	13.929	192.693	215.952	15.149	0.08821	2.75822	5	X
K07TO2L	16.9	0.15	K129U	52.912	25.506	348.328	9.647	0.22051	2.66735	5	X
K07TR8X	16.1	0.15	K129U	156.355	59.862	211.589	13.367	0.08455	2.64525	4	X
K07TS7Z	16.1	0.15	K129U	22.753	298.089	80.501	10.059	0.16962	2.79131	3	X
K07Tf3Y	16.8	0.15	K129U	338.315	313.844	131.640	10.519	0.20451	2.81007	5	X
K07Tg6S	16.5	0.15	K129U	18.179	341.836	20.563	11.421	0.11044	2.98714	2	X
K07Tj1C	16.8	0.15	K129U	340.638	99.061	43.783	12.664	0.04490	2.59267	5	X
K07U33E	15.4	0.15	K129U	6.246	70.497	266.094	16.383	0.21250	3.04881	4	X
K07UB6N	16.7	0.15	K129U	160.424	236.415	55.041	9.561	0.15617	2.58219	4	X
K07V72V	16.8	0.15	K129U	73.527	320.542	63.713	5.071	0.17563	2.66070	5	X
K07V90C	16.1	0.15	K129U	8.113	352.401	72.917	10.636	0.16456	2.80733	2	X
K07VI3B	16.6	0.15	K129U	19.597	51.352	5.816	7.622	0.19202	2.76438	6	X
K07VL6B	16.7	0.15	K129U	36.132	5.060	37.079	5.296	0.11876	2.76039	7	X
K07VQ9D	16.6	0.15	K129U	329.886	283.263	124.443	3.870	0.29734	3.10556	2	X
K07VT4W	15.5	0.15	K129U	344.149	340.103	130.179	17.780	0.16355	3.10516	6	X
K07X42J	15.8	0.15	K129U	255.703	60.910	129.770	17.282	0.16168	3.20106	5	X
K07Y01X	17.3	0.15	K129U	342.082	152.726	331.789	16.330	0.59044	2.85787	3	X
K07Y25A	15.7	0.15	K129U	345.063	137.069	286.098	12.999	0.21558	2.93171	4	X
K07Y41K	15.6	0.15	K129U	248.741	70.362	114.585	25.799	0.13054	3.16860	5	X
K07Y64F	15.8	0.15	K129U	164.855	128.314	136.632	12.130	0.05161	3.17596	6	X
K07Y65H	16.2	0.15	K129U	354.729	294.699	135.362	11.546	0.08641	3.11792	2	X
K07Y72Y	16.7	0.15	K129U	333.151	346.847	110.298	18.704	0.20100	3.11241	3	X
K08A05F	16.2	0.15	K129U	349.254	312.283	126.072	16.929	0.18247	3.08699	4	X
K08A13V	16.0	0.15	K129U	8.990	277.918	138.079	10.227	0.07800	3.09912	8	X
K08A28Z	16.8	0.15	K129U	4.775	136.455	261.492	7.038	0.27826	3.05203	3	X
K08AA6S	15.9	0.15	K129U	198.382	116.149	118.921	14.431	0.06085	3.12699	5	X
K08B02D	15.7	0.15	K129U	328.271	341.361	118.732	18.749	0.12083	3.12726	5	X
K08B04E	17.1	0.15	K129U	21.508	131.762	315.149	14.470	0.10694	2.84550	3	X

K08B05Y	16.3	0.15	K129U	297.326	4.571	128.112	10.987	0.07246	3.17559	3 X
K08B24S	18.2	0.15	K129U	335.850	148.142	305.951	19.476	0.07826	1.84830	4 X
K08B26Q	17.0	0.15	K129U	350.172	285.421	144.906	8.334	0.18286	3.12331	3 X
K08C10L	16.0	0.15	K129U	284.751	185.856	357.658	9.314	0.08883	3.10988	6 X
K08C62Y	16.5	0.15	K129U	301.104	237.895	304.837	10.471	0.08279	2.79078	4 X
K08C69A	16.3	0.15	K129U	256.456	41.602	141.960	11.421	0.09358	3.13581	5 X
K08CA0Q	15.8	0.15	K129U	293.419	268.629	270.267	19.613	0.19867	2.99985	3 X
K08CI0Q	17.6	0.15	K129U	190.014	293.959	312.462	18.314	0.03394	1.88785	5 X
K08CI9T	15.3	0.15	K129U	209.307	121.655	132.692	19.181	0.09967	3.23817	3 X
K08CJ2X	15.9	0.15	K129U	35.816	38.453	12.164	9.233	0.08825	3.15974	4 X
K08CJ3D	17.0	0.15	K129U	337.370	322.199	179.918	2.661	0.11208	2.98616	6 X
K08D13M	17.2	0.15	K129U	352.991	262.711	161.785	10.194	0.35828	3.08933	3 X
K08D24T	15.6	0.15	K129U	358.980	309.271	140.937	11.670	0.15632	3.08405	6 X
K08D48Z	15.5	0.15	K129U	299.869	26.479	133.675	28.335	0.10986	3.12773	4 X
K08D55D	16.0	0.15	K129U	275.450	220.813	345.942	23.002	0.22544	3.10066	4 X
K08D85O	16.7	0.15	K129U	345.307	82.833	49.615	4.996	0.16100	3.04160	4 X
K08E10Z	15.9	0.15	K129U	280.881	328.431	202.265	15.185	0.20888	3.15524	6 X
K08E50V	15.7	0.15	K129U	327.751	161.175	331.010	13.142	0.11370	3.13986	5 X
K08E90H	15.1	0.15	K129U	7.619	311.642	133.649	18.065	0.14915	3.20790	6 X
K08E92X	15.4	0.15	K129U	224.040	221.222	28.381	18.473	0.14523	3.17004	5 X
K08EA9V	16.0	0.15	K129U	93.825	11.744	334.116	21.791	0.09312	3.23010	5 X
K08F16A	16.2	0.15	K129U	208.642	266.880	331.593	9.967	0.03569	3.06391	4 X
K08G64B	17.4	0.15	K129U	263.072	139.910	37.669	21.218	0.07312	1.94719	4 X
K08H04V	19.7	0.15	K129U	292.223	249.426	224.059	20.819	0.27789	1.42623	2 X
K08H09A	16.1	0.15	K129U	299.715	46.746	150.006	11.114	0.16433	3.14053	5 X
K08J00M	17.6	0.15	K129U	32.001	316.854	85.127	25.767	0.06747	1.96393	5 X
K08O01Z	17.4	0.15	K129U	142.496	108.992	159.754	7.213	0.13323	2.18137	6 X
K08Q25T	17.5	0.15	K129U	24.335	168.274	204.769	10.644	0.24058	2.36025	3 X
K08R14M	13.6	0.15	K129U	140.034	42.732	303.552	6.145	0.03545	5.11972	6 X
K08RA6O	17.6	0.15	K129U	36.100	232.577	165.599	6.374	0.07997	2.24242	7 X
K08RA7O	17.7	0.15	K129U	319.455	109.203	17.902	7.150	0.05780	2.31279	4 X
K08RB9A	18.3	0.15	K129U	1.660	63.123	4.125	4.246	0.21278	2.35531	3 X
K08RD4V	17.0	0.15	K129U	92.622	176.974	130.365	11.560	0.20945	2.26550	6 X
K08S04J	17.2	0.15	K129U	51.078	180.846	159.167	8.073	0.28937	2.36204	5 X
K08S48J	17.7	0.15	K129U	342.142	239.291	193.016	6.167	0.06900	2.33901	2 X
K08S82P	18.5	0.15	K129U	19.934	121.631	254.399	3.824	0.24178	2.39051	2 X
K08SD3K	18.5	0.15	K129U	26.514	175.917	191.058	2.607	0.20274	2.35270	3 X
K08SF6C	16.1	0.15	K129U	311.029	312.896	113.128	6.391	0.21908	2.62215	3 X
K08SH9Q	17.6	0.15	K129U	343.242	318.461	143.403	3.767	0.07133	2.23028	6 X
K08SI0H	16.9	0.15	K129U	355.157	238.429	116.722	5.720	0.26726	2.61905	6 X
K08SI4K	16.8	0.15	K129U	335.747	347.775	41.483	14.797	0.25049	2.68825	3 X
K08SJ5S	17.1	0.15	K129U	263.758	149.086	38.531	7.031	0.04416	2.26739	5 X
K08SN5N	17.2	0.15	K129U	81.475	86.555	229.152	5.763	0.15036	2.33695	4 X
K08SQ8T	16.6	0.15	K129U	3.633	218.286	123.447	6.258	0.21809	2.62381	5 X
K08SR3E	17.3	0.15	K129U	52.966	339.439	42.359	7.570	0.11121	2.35770	4 X
K08T43H	17.5	0.15	K129U	42.466	38.787	337.944	9.793	0.24027	2.33860	3 X
K08T45Z	18.2	0.15	K129U	9.823	284.801	153.826	3.232	0.19602	2.32784	4 X
K08T62C	16.7	0.15	K129U	9.158	241.888	94.429	8.198	0.20940	2.57539	5 X
K08T98K	18.2	0.15	K129U	354.230	158.960	305.316	3.890	0.09632	2.22314	4 X
K08TF6L	17.4	0.15	K129U	326.695	210.234	242.563	5.868	0.09294	2.42954	2 X
K08U51X	17.3	0.15	K129U	26.940	177.970	238.149	5.028	0.08955	2.36332	3 X
K08U74P	17.1	0.15	K129U	9.472	169.475	262.693	7.369	0.09328	2.37735	5 X
K08U86X	16.7	0.15	K129U	12.713	301.849	36.198	14.755	0.14473	2.64209	4 X
K08U93Z	16.6	0.15	K129U	350.341	163.551	202.044	15.352	0.27054	2.65089	2 X
K08U98W	16.8	0.15	K129U	40.234	306.730	72.571	9.330	0.24154	2.39597	4 X
K08UB2C	17.1	0.15	K129U	181.135	340.841	254.155	6.044	0.07454	2.40312	4 X
K08UG3R	17.1	0.15	K129U	57.744	337.100	13.426	6.246	0.24145	2.36289	5 X
K08UI2M	18.2	0.15	K129U	42.107	227.766	178.022	2.349	0.16120	2.28297	5 X
K08UJ2E	17.3	0.15	K129U	78.231	288.455	56.360	7.697	0.14173	2.35377	4 X
K08UK6L	16.7	0.15	K129U	333.235	212.076	180.666	13.281	0.16758	2.61553	4 X
K08UL8R	17.5	0.15	K129U	7.361	185.307	243.601	5.542	0.09838	2.36958	6 X
K08UN7V	17.5	0.15	K129U	354.418	193.914	255.726	6.093	0.07304	2.34294	5 X
K08U01Y	17.2	0.15	K129U	355.134	192.703	162.848	14.917	0.27825	2.60826	4 X
K08UY2S	17.8	0.15	K129U	12.699	37.703	23.753	4.943	0.09317	2.42604	5 X
K08Ua5S	18.0	0.15	K129U	358.495	271.502	163.272	5.671	0.19663	2.37660	6 X
K08V18N	17.7	0.15	K129U	357.981	9.079	63.552	6.081	0.20802	2.40499	3 X
K08V72R	17.1	0.15	K129U	319.631	196.324	267.878	3.094	0.14093	2.63822	5 X
K08V72X	17.2	0.15	K129U	124.040	233.568	76.872	7.705	0.08904	2.35654	7 X
K08V79H	16.5	0.15	K129U	305.209	223.119	256.672	12.070	0.11369	2.63234	3 X
K08W03B	17.4	0.15	K129U	1.261	48.318	26.235	6.970	0.07887	2.35023	3 X
K08W32R	16.8	0.15	K129U	344.176	317.966	59.702	9.258	0.29929	2.66740	2 X
K08W60Z	17.4	0.15	K129U	336.669	221.958	247.968	4.504	0.18656	2.41346	7 X
K08W61P	17.6	0.15	K129U	16.660	332.884	69.432	10.649	0.28017	2.43927	3 X
K08W65R	17.2	0.15	K129U	48.631	308.361	67.006	7.195	0.14823	2.40079	4 X
K08W83K	17.1	0.15	K129U	356.034	288.072	121.217	4.303	0.25282	2.53135	4 X
K08W94H	16.1	0.15	K129U	308.752	243.404	263.056	27.398	0.40108	2.61072	3 X
K08WD4L	16.8	0.15	K129U	353.809	320.894	110.690	22.949	0.03087	2.66531	3 X
K08WD9U	16.4	0.15	K129U	294.473	40.072	90.239	17.687	0.10934	2.53463	2 X
K08X02E	19.2	0.15	K129U	337.207	41.261	45.173	8.003	0.50158	2.55122	2 X
K08X30O	16.8	0.15	K129U	340.680	142.944	324.355	12.554	0.21119	2.62532	4 X
K08X43R	16.3	0.15	K129U	314.699	8.186	132.172	13.887	0.11889	2.64018	6 X

K08X54T	16.4	0.15	K129U	296.186	253.840	281.200	20.901	0.22725	2.43148	3	X
K08X55T	16.8	0.15	K129U	16.862	306.097	110.858	9.737	0.15213	2.45136	4	W
K08Y01K	16.2	0.15	K129U	354.897	322.949	93.033	14.429	0.14665	2.60194	5	X
K08Y05F	17.4	0.15	K129U	344.310	160.635	301.163	2.213	0.21011	2.46307	7	W
K08Y06Z	17.5	0.15	K129U	328.759	332.420	163.671	2.731	0.13098	2.46527	4	X
K08Y20Y	18.6	0.15	K129U	323.975	196.289	289.812	34.581	0.26288	2.55635	2	W
K08Y38Q	16.2	0.15	K129U	19.177	129.714	267.833	10.587	0.30487	2.54900	4	X
K08Y69G	16.4	0.15	K129U	32.252	160.913	218.685	4.878	0.31841	2.55363	3	X
K08Y71L	16.8	0.15	K129U	296.680	195.123	332.804	9.215	0.20676	2.72956	5	X
K08Y95H	16.8	0.15	K129U	257.256	65.503	108.158	17.501	0.11186	2.66896	3	X
K08YD5D	16.2	0.15	K129U	159.297	342.482	249.580	14.247	0.05556	2.67246	4	X
K08YE6B	17.8	0.15	K129U	320.504	263.484	234.253	1.333	0.15766	2.53679	4	X
K08YF9C	17.3	0.15	K129U	340.238	176.574	305.751	6.901	0.15875	2.45630	4	X
K09A24M	17.7	0.15	K129U	54.073	169.608	223.880	1.854	0.19967	2.45499	5	X
K09A28F	17.4	0.15	K129U	346.658	312.799	118.842	13.926	0.18037	2.62415	2	X
K09A29D	17.7	0.15	K129U	333.543	358.994	85.393	6.146	0.15445	2.60989	4	X
K09A49J	17.5	0.15	K129U	12.019	164.742	252.349	4.207	0.25170	2.53737	3	X
K09B05B	16.8	0.15	K129U	278.949	42.519	100.271	22.503	0.04266	2.71474	3	X
K09B24A	16.2	0.15	K129U	37.923	249.135	122.779	13.271	0.11453	2.81727	5	X
K09B46B	16.2	0.15	K129U	323.164	253.681	159.277	8.769	0.19774	2.99917	3	X
K09B65V	17.8	0.15	K129U	4.578	287.951	164.209	2.144	0.18137	2.52916	7	X
K09B71G	16.5	0.15	K129U	279.900	46.274	122.730	17.365	0.19973	2.71806	3	X
K09B77A	16.9	0.15	K129U	0.416	351.186	91.261	8.527	0.24262	2.56121	4	W
K09B99U	16.3	0.15	K129U	17.843	341.431	53.555	7.245	0.35150	2.59196	3	X
K09BI0Y	15.7	0.15	K129U	237.287	154.095	80.099	14.632	0.16469	2.77933	6	X
K09BI5W	15.8	0.15	K129U	207.689	166.162	88.563	16.006	0.10439	2.61394	5	W
K09BI6V	16.7	0.15	K129U	309.149	25.094	133.363	13.964	0.21679	2.62182	4	X
K09C02J	16.3	0.15	K129U	293.703	15.771	123.691	14.764	0.11070	2.70076	4	X
K09C07X	16.8	0.15	K129U	212.562	77.802	131.621	13.694	0.05154	2.72132	4	X
K09C32K	17.0	0.15	K129U	3.453	285.235	143.820	7.767	0.20482	2.67568	5	X
K09C32W	16.2	0.15	K129U	166.696	110.525	147.788	12.924	0.12004	3.00119	4	X
K09C33N	17.5	0.15	K129U	1.791	324.958	143.497	9.351	0.06908	2.56921	4	X
K09C34C	17.1	0.15	K129U	344.285	316.909	118.972	14.695	0.07375	2.71907	3	X
K09C39L	17.3	0.15	K129U	287.629	32.441	127.567	11.002	0.23401	2.70206	3	X
K09C43W	17.5	0.15	K129U	349.337	301.564	160.680	2.966	0.08551	2.56895	7	X
K09C51B	16.6	0.15	K129U	233.652	267.094	335.085	12.038	0.23480	2.62732	6	X
K09C59W	17.4	0.15	K129U	314.726	43.045	124.898	12.678	0.21364	2.54689	3	X
K09D58L	17.0	0.15	K129U	332.009	298.951	153.621	9.551	0.18660	2.79319	4	X
K09D65M	16.4	0.15	K129U	210.024	326.125	316.278	9.547	0.23486	2.46141	5	X
K09D73C	16.5	0.15	K129U	281.414	349.042	163.823	9.259	0.10066	2.78052	3	X
K09DA1L	16.8	0.15	K129U	16.039	288.917	138.126	10.015	0.14554	2.73365	5	X
K09E22K	16.9	0.15	K129U	358.272	233.312	186.684	11.084	0.08383	3.01109	5	X
K09E28B	15.6	0.15	K129U	161.126	358.040	257.419	5.436	0.06669	3.03646	4	X
K09E30N	16.8	0.15	K129U	276.012	314.464	226.302	10.586	0.23896	2.77141	3	X
K09F01U	16.6	0.15	K129U	317.523	329.629	144.689	8.876	0.17999	2.78045	4	X
K09F07R	16.4	0.15	K129U	356.814	263.474	159.348	10.359	0.03062	3.05030	7	X
K09F08O	17.2	0.15	K129U	310.228	20.175	150.063	4.374	0.15228	2.61088	5	X
K09F55G	16.2	0.15	K129U	201.668	64.335	164.777	9.183	0.07314	3.09865	4	X
K09F62N	15.9	0.15	K129U	225.950	26.542	184.761	12.408	0.06838	3.08928	4	X
K09F71R	16.9	0.15	K129U	26.377	283.555	160.276	5.689	0.06164	2.68738	6	X
K09F75A	15.4	0.15	K129U	181.254	42.841	205.226	16.182	0.17135	3.18025	5	X
K09H34S	16.2	0.15	K129U	210.411	195.029	51.213	9.334	0.02874	2.84810	6	X
K09H42M	16.0	0.15	K129U	5.070	18.177	66.734	11.741	0.08914	2.97053	6	X
K09H47N	16.8	0.15	K129U	3.285	50.083	41.164	13.688	0.23193	2.67062	5	X
K09J05T	17.3	0.15	K129U	314.674	102.070	62.951	27.162	0.40294	2.61712	2	X
K09J17C	16.1	0.15	K129U	210.388	35.882	193.321	15.262	0.11884	3.26051	4	X
K09M07A	15.8	0.15	K129U	236.376	342.861	221.973	14.154	0.18788	3.22014	5	X
K09R76Q	13.3	0.15	K129U	52.160	109.112	313.817	14.726	0.16010	5.22852	4	X
K09S50T	13.5	0.15	K129U	40.018	53.941	6.558	11.933	0.07302	5.17528	6	X
K09SK0B	13.8	0.15	K129U	359.602	211.497	274.867	3.073	0.12417	5.18786	5	X
K09W10C	17.4	0.15	K129U	314.150	48.304	73.998	25.485	0.09112	2.00261	3	X
K09W53N	17.7	0.15	K129U	313.042	350.919	69.227	6.577	0.23168	2.21293	4	X
K10C47O	15.6	0.15	K129U	68.468	225.184	111.765	18.357	0.20621	3.15557	5	X
K10CA6Z	18.4	0.15	K129U	2.663	89.549	335.766	6.783	0.07814	2.20059	4	X
K10D70E	15.3	0.15	K129U	74.462	227.503	105.243	26.590	0.14040	3.20165	5	X
K10D77B	16.6	0.15	K129U	256.004	61.069	118.800	23.567	0.15674	2.30901	3	X
K10EC8O	18.1	0.15	K129U	275.201	170.456	359.028	5.701	0.08879	2.31821	3	X
K10F82S	16.1	0.15	K129U	195.025	159.833	42.364	14.200	0.08355	2.69644	3	X
K10G66X	16.5	0.15	K129U	196.901	3.188	228.945	15.466	0.14318	2.62788	2	X
K10G97E	16.5	0.15	K129U	101.774	108.493	197.489	15.902	0.21130	3.10632	3	X
K10H21C	17.0	0.15	K129U	332.489	312.691	142.700	11.611	0.20591	2.45399	4	X
K10HA5Y	16.9	0.15	K129U	351.187	211.153	212.699	4.737	0.04462	2.68056	5	W
K10J30Q	16.9	0.15	K129U	296.721	6.302	128.258	12.351	0.12244	2.57844	3	X
K10J72S	15.9	0.15	K129U	95.635	141.911	174.873	13.010	0.18172	3.09137	4	X
K10J77E	16.9	0.15	K129U	24.382	17.836	60.090	5.226	0.07269	2.37404	5	X
K10JG1H	15.7	0.15	K129U	83.073	92.602	230.823	15.006	0.24217	3.18851	4	X
K10L00B	15.5	0.15	K129U	119.812	53.010	242.937	26.928	0.24218	3.19472	4	X
K10L32F	15.4	0.15	K129U	211.777	271.622	338.001	10.434	0.15847	3.08012	3	X
K10L63Q	16.7	0.15	K129U	284.080	352.575	158.010	11.510	0.14740	2.57171	6	X
K10LC1Z	15.2	0.15	K129U	201.388	335.441	307.490	15.130	0.04420	3.06507	4	X
K10N66X	15.5	0.15	K129U	28.006	241.912	111.497	17.853	0.12742	3.14794	3	X

K10N81F	15.9	0.15	K129U	190.482	272.580	27.663	21.499	0.17107	3.08660	4	X
K10V79V	13.3	0.15	K129U	32.868	16.283	58.263	10.723	0.03430	5.19299	4	X
K10W09E	20.0	0.15	K129U	346.508	132.475	295.516	42.120	0.24983	1.55465	3	X
K10W54G	13.8	0.15	K129U	329.208	228.111	294.549	5.222	0.06914	5.21025	7	X
K10X07X	13.9	0.15	K129U	35.019	296.863	156.187	8.508	0.08248	5.25764	6	X
K10X07Z	13.4	0.15	K129U	69.454	274.588	140.843	8.759	0.03731	5.16749	4	X
K10X69L	19.5	0.15	K129U	242.688	108.578	94.658	12.669	0.21021	1.53046	2	X
K11K02L	17.4	0.15	K129U	43.090	266.831	87.029	8.420	0.14804	2.29479	4	X
K11L08D	17.1	0.15	K129U	170.358	143.712	120.965	24.488	0.05161	1.95564	7	X
K11L14A	17.8	0.15	K129U	0.580	347.926	79.944	23.795	0.06610	1.93029	4	X
K11O02B	17.5	0.15	K129U	179.759	79.207	168.451	12.701	0.12358	2.32535	5	X
K11O17P	16.1	0.15	K129U	124.294	106.989	184.381	8.191	0.19400	2.47100	6	X
K11O20C	17.0	0.15	K129U	63.673	66.834	308.453	13.052	0.26963	2.64535	5	X
K11O28D	16.8	0.15	K129U	6.141	213.742	198.406	9.091	0.09539	3.00130	5	X
K11Q12C	16.6	0.15	K129U	34.619	218.500	166.864	13.221	0.11274	3.11810	5	X
K11Q17A	16.3	0.15	K129U	58.207	186.979	170.785	12.293	0.08060	3.11016	3	X
K11Q17J	15.9	0.15	K129U	84.972	159.095	164.320	9.110	0.17293	3.10900	6	X
K11Q67G	16.3	0.15	K129U	75.497	167.683	159.499	11.532	0.18261	3.08308	5	X
K11Q93B	16.9	0.15	K129U	40.589	99.367	315.458	7.085	0.19992	2.77628	5	X
K11R15N	17.7	0.15	K129U	326.398	256.549	228.476	6.294	0.07551	2.35905	4	X
K11S07V	16.4	0.15	K129U	56.493	172.136	190.969	9.946	0.10082	3.17978	4	X
K11S09U	16.2	0.15	K129U	92.810	127.104	195.921	9.895	0.06781	3.15103	4	X
K11S37T	15.7	0.15	K129U	5.498	57.241	38.053	10.181	0.06817	3.10205	6	X
K11S58D	17.3	0.15	K129U	297.189	299.006	200.163	12.810	0.10090	2.59744	5	X
K11S82U	16.4	0.15	K129U	50.562	235.118	177.189	4.872	0.15076	3.08100	6	X
K11S88C	16.2	0.15	K129U	84.228	347.009	2.198	10.492	0.20732	3.16305	4	X
K11SA0A	16.3	0.15	K129U	33.599	280.093	139.832	6.620	0.03371	2.78567	6	X
K11SA5D	16.5	0.15	K129U	100.820	60.895	304.498	5.335	0.04535	2.73274	3	X
K11SB3V	16.9	0.15	K129U	107.911	322.389	6.063	7.068	0.07329	2.71848	4	X
K11SB5N	15.3	0.15	K129U	81.357	70.287	250.996	14.560	0.14455	3.38890	4	X
K11SC8W	17.0	0.15	K129U	38.291	276.017	146.382	3.739	0.19540	3.07545	6	X
K11SH6Q	15.9	0.15	K129U	41.179	83.046	329.899	25.309	0.23514	3.04108	3	X
K11SJ1S	16.5	0.15	K129U	111.255	130.571	187.101	11.887	0.00965	2.92467	5	X
K11SK9R	17.4	0.15	K129U	39.984	51.804	6.619	6.577	0.14631	2.65274	4	X
K11SN3N	15.8	0.15	K129U	343.575	192.408	283.533	9.161	0.04200	3.04583	4	X
K11SP8T	16.5	0.15	K129U	75.887	352.713	13.429	7.613	0.07646	2.76898	4	X
K11T00V	16.7	0.15	K129U	61.108	142.029	205.784	12.159	0.13323	3.23357	4	X
K11T03M	16.2	0.15	K129U	66.143	253.561	146.138	6.413	0.05803	2.81848	7	X
K11T07X	17.0	0.15	K129U	91.765	166.456	191.024	2.488	0.08163	2.72862	3	X
K11T11Q	15.7	0.15	K129U	29.727	257.352	156.857	9.824	0.09702	3.09411	5	X
K11T13M	17.1	0.15	K129U	72.583	243.237	142.439	6.880	0.08147	2.57847	6	X
K11U14M	15.4	0.15	K129U	62.703	135.533	252.019	7.953	0.09521	3.19324	7	X
K11U22L	16.5	0.15	K129U	109.946	72.791	270.997	5.680	0.07159	2.87364	3	X
K11U23M	16.0	0.15	K129U	289.988	174.952	350.584	10.623	0.02488	3.09473	4	X
K11U78L	16.4	0.15	K129U	88.582	16.990	7.262	5.545	0.05023	2.73484	5	X
K11UA4L	16.9	0.15	K129U	49.986	130.550	283.532	2.974	0.06503	2.78153	6	X
K11UA7V	16.2	0.15	K129U	315.922	62.308	86.468	15.858	0.13742	3.18105	3	X
K11UB5L	16.3	0.15	K129U	22.110	183.428	238.354	7.365	0.14802	3.20809	5	X
K11UK5L	16.0	0.15	K129U	257.013	332.772	206.933	11.882	0.06037	2.93292	4	X
K11UU2Z	16.2	0.15	K129U	225.257	7.510	230.454	7.849	0.10116	2.78674	6	X
K11Ua8J	16.4	0.15	K129U	89.406	310.146	45.933	9.269	0.09059	3.11136	3	X
K11Ud2N	15.8	0.15	K129U	99.421	354.795	353.453	9.116	0.08364	3.17230	5	X
K11W00Y	16.0	0.15	K129U	141.119	274.335	65.774	4.690	0.06064	3.02057	7	X
K11W33K	15.5	0.15	K129U	181.061	205.752	74.355	12.414	0.07749	3.15701	6	X
K11W36F	16.0	0.15	K129U	60.836	350.363	50.718	18.849	0.20182	3.11320	3	X
K11WA2Y	16.3	0.15	K129U	90.983	231.575	150.261	11.263	0.11401	3.12152	5	X
K12BA1W	14.1	0.15	K129U	33.640	138.855	316.878	6.645	0.10929	5.18619	6	X
K12C52F	13.2	0.15	K129U	69.144	112.240	304.870	8.414	0.09611	5.13459	6	X
K12L09L	18.7	0.15	K129U	10.040	205.738	129.598	35.170	0.72656	2.72284	2	X
K12M07Q	15.9	0.15	K129U	332.048	140.039	242.519	24.019	0.22835	2.31479	5	X
K12Q19R	17.0	0.15	K129U	25.847	179.892	131.757	3.273	0.20658	2.43871	6	X
K12Q33O	16.1	0.15	K129U	280.308	265.923	183.745	21.713	0.09011	2.67031	6	X
K12Q41W	16.5	0.15	K129U	2.156	206.598	139.287	9.137	0.23138	2.77238	5	X
K12R12W	15.7	0.15	K129U	68.271	285.683	15.272	14.783	0.11262	2.60536	5	X
K12R20O	15.9	0.15	K129U	328.449	212.961	186.282	12.279	0.19084	2.83238	8	X
K12R40M	16.5	0.15	K129U	0.626	184.878	171.735	4.552	0.11608	2.81554	4	X
K12T69G	16.1	0.15	K129U	7.541	342.159	39.469	10.234	0.13593	3.13175	2	X
K12TJ9X	15.8	0.15	K129U	327.981	179.808	251.301	9.544	0.11162	3.10114	5	X
K12TV1F	16.6	0.15	K129U	24.080	328.326	3.978	6.165	0.19022	3.01964	6	X
K12V92S	16.4	0.15	K129U	293.738	68.613	75.091	10.198	0.20285	3.05311	4	X
K12V92X	16.7	0.15	K129U	14.131	303.126	76.155	7.500	0.26997	2.65649	3	X
K12V92Z	16.4	0.15	K129U	28.961	276.284	73.370	11.374	0.33961	2.75471	3	X
K12V93E	17.5	0.15	K129U	315.539	249.901	217.769	4.363	0.16151	2.34993	4	X
K12W14Y	16.3	0.15	K129U	8.394	313.630	89.011	6.191	0.16620	3.12928	7	X
K12W15F	16.3	0.15	K129U	336.400	359.523	80.383	12.377	0.10757	2.69687	6	X
K12W15L	16.4	0.15	K129U	199.862	320.223	257.512	8.670	0.01177	2.63066	5	X
K12W17C	17.0	0.15	K129U	309.445	18.469	91.649	25.452	0.23927	2.28503	4	X
K12W28F	15.6	0.15	K129U	340.931	185.075	254.042	9.790	0.12374	3.05017	5	X
K12X02D	14.8	0.15	K129U	358.977	237.470	182.809	8.724	0.25839	3.97034	5	X
K12X04L	17.2	0.15	K129U	349.447	330.368	95.123	10.025	0.08983	2.68193	4	X
K12X04P	16.8	0.15	K129U	39.898	212.607	152.485	4.553	0.11322	2.76921	7	X

K12X04R	16.3	0.15	K129U	109.304	173.810	121.261	6.092	0.13913	2.79559	6 X
K12X10J	17.4	0.15	K129U	353.621	154.345	262.241	7.349	0.22453	2.67517	3 X
K12X17B	17.8	0.15	K129U	200.208	104.739	109.215	24.096	0.01974	1.86812	4 X
K12X17J	15.3	0.15	K129U	247.519	106.138	72.189	13.016	0.07451	3.14771	8 X
K12X22E	16.6	0.15	K129U	177.637	343.109	256.353	12.979	0.12520	2.69402	5 X
K12X29C	16.1	0.15	K129U	91.468	53.242	259.367	8.026	0.12885	3.07479	3 X
K12X54L	16.8	0.15	K129U	344.857	170.162	259.754	12.930	0.16689	2.60106	4 X
K12X66W	17.0	0.15	K129U	341.077	240.632	206.337	9.872	0.24771	3.04089	2 X
K12X66X	16.4	0.15	K129U	121.463	69.176	217.142	12.953	0.19891	2.57856	4 X
K12X69P	16.5	0.15	K129U	4.927	245.183	168.976	9.632	0.09696	3.14844	2 X
K12X69T	16.9	0.15	K129U	21.758	162.299	224.884	16.341	0.12579	2.56952	3 X
K12X84T	16.9	0.15	K129U	325.325	277.109	196.603	13.921	0.25352	3.10806	3 X
K12X84U	16.8	0.15	K129U	48.906	159.261	187.879	12.591	0.20639	2.54575	2 X
K12X84Y	16.1	0.15	K129U	5.224	289.598	117.628	16.034	0.22319	3.18596	5 X
K12X85A	17.6	0.15	K129U	340.794	302.608	141.093	9.137	0.29525	2.69589	4 X
K12XA4B	17.1	0.15	K129U	3.863	333.243	77.842	11.450	0.39843	2.75663	3 X
K12XA5Q	17.2	0.15	K129U	319.370	157.840	332.459	6.378	0.15496	2.44221	4 X
K12XC3G	16.5	0.15	K129U	345.000	311.221	127.929	10.413	0.09943	3.09332	2 X
K12XC3V	16.2	0.15	K129U	318.407	261.052	208.061	9.803	0.05326	3.01591	5 X
K12XC6O	17.9	0.15	K129U	295.872	59.461	79.029	23.404	0.13287	1.86798	3 X
K12XD5N	16.5	0.15	K129U	340.644	354.421	81.278	15.375	0.13192	2.62954	3 X
K12XD8T	16.4	0.15	K129U	281.099	275.660	231.535	14.205	0.05744	2.65330	4 X
K12XE4J	15.7	0.15	K129U	90.625	93.960	229.825	21.906	0.10855	3.08080	4 X
K12XE9E	16.7	0.15	K129U	59.943	186.191	171.015	7.468	0.04252	2.78359	5 X
K12XF1Q	17.4	0.15	K129U	281.756	318.167	223.396	4.849	0.17451	2.38016	3 X
K12XF1X	16.3	0.15	K129U	340.016	202.426	269.484	11.106	0.19877	3.07619	3 X
K12Y02R	16.8	0.15	K129U	1.964	323.678	81.894	10.118	0.20928	2.70223	4 X
K13A01Z	16.3	0.15	K129U	6.806	258.714	143.226	9.652	0.27058	3.03378	4 X
K13A31Z	13.0	0.15	K129U	139.295	316.902	253.432	16.689	0.05246	5.17079	6 S

## New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K02B25G	20.9	0.15	K129U	245.561	239.249	316.564	48.819	0.23391	1.23198	001 X	
K12P00W	18.9	0.15	K129U	2.324	166.705	214.583	22.309	0.47733	1.77182	154 X	
<b>K12P28P</b>	<b>19.3</b>	<b>0.15</b>	<b>K129U</b>	<b>355.676</b>	<b>133.285</b>	<b>254.390</b>	<b>5.651</b>	<b>0.60593</b>	<b>1.99056</b>	<b>147 X</b>	
K12Q50E	18.9	0.15	K129U	341.907	224.711	194.021	11.912	0.44129	1.73420	132 X	
K12R01H	16.5	0.15	K129U	327.107	68.899	341.959	25.989	0.31124	3.17526	147 X	
K12R03G	17.9	0.15	K129U	254.447	35.122	113.085	15.916	0.52834	1.57476	123 X	
K12T00S	20.8	0.15	K129U	142.451	21.090	190.947	16.458	0.11328	0.99039	96 X	
K12T79H	21.6	0.15	K129U	340.269	287.237	157.534	7.717	0.61499	2.40755	89 X	
<b>K12V05A</b>	<b>21.8</b>	<b>0.15</b>	<b>K129U</b>	<b>343.995</b>	<b>36.606</b>	<b>32.224</b>	<b>6.071</b>	<b>0.61242</b>	<b>2.59471</b>	<b>66 X</b>	
K12V80F	18.5	0.15	K129U	340.180	184.219	195.432	7.602	0.42900	2.23267	212 X	
K12W04L	19.8	0.15	K129U	27.589	130.495	217.599	31.179	0.13837	1.42196	49 X	
<b>K12X06Y</b>	<b>19.0</b>	<b>0.15</b>	<b>K129U</b>	<b>300.292</b>	<b>173.240</b>	<b>348.427</b>	<b>7.789</b>	<b>0.49108</b>	<b>2.00825</b>	<b>36 X</b>	
K12X64R	17.1	0.15	K129U	347.063	205.407	225.059	11.075	0.11996	2.57418	91 X	
K12X93T	21.8	0.15	K129U	353.468	307.223	84.605	8.272	0.56760	2.32421	31 X	
<b>K12XB1O</b>	<b>21.1</b>	<b>0.15</b>	<b>K129U</b>	<b>302.937</b>	<b>189.747</b>	<b>328.179</b>	<b>4.282</b>	<b>0.49869</b>	<b>2.00349</b>	<b>29 X</b>	
K12XB2D	21.2	0.15	K129U	265.139	76.644	97.921	3.720	0.36601	1.32411	29 X	
K12XB2F	19.9	0.15	K129U	342.318	169.394	300.143	10.927	0.63420	3.20565	29 X	
K12XD3D	22.2	0.15	K129U	311.468	193.199	263.849	15.853	0.27005	1.48532	26 X	
K12XD3E	23.4	0.15	K129U	70.259	337.061	281.156	6.686	0.43278	0.72310	28 X	
K12XD3F	22.0	0.15	K129U	4.237	71.526	285.997	8.028	0.41284	1.51375	28 X	
<b>K12XD4J</b>	<b>21.5</b>	<b>0.15</b>	<b>K129U</b>	<b>353.734</b>	<b>124.145</b>	<b>237.470</b>	<b>2.466</b>	<b>0.73763</b>	<b>2.57484</b>	<b>28 X</b>	
<b>K12Y01O</b>	<b>21.3</b>	<b>0.15</b>	<b>K129U</b>	<b>341.827</b>	<b>312.596</b>	<b>85.914</b>	<b>17.469</b>	<b>0.49082</b>	<b>1.82587</b>	<b>21 X</b>	
K12Y01Q	21.0	0.15	K129U	312.230	42.093	120.136	5.126	0.55983	1.97760	20 X	
<b>K12Y03O</b>	<b>21.0</b>	<b>0.15</b>	<b>K129U</b>	<b>349.766</b>	<b>351.357</b>	<b>31.045</b>	<b>3.620</b>	<b>0.67528</b>	<b>2.43558</b>	<b>18 X</b>	
K12Y03Q	22.1	0.15	K129U	332.722	47.266	94.484	8.248	0.60629	2.80306	19 X	
<b>K12Y06Y</b>	<b>21.4</b>	<b>0.15</b>	<b>K129U</b>	<b>342.573</b>	<b>317.165</b>	<b>23.150</b>	<b>4.007</b>	<b>0.67596</b>	<b>1.50630</b>	<b>10 X</b>	
K12Y07D	24.3	0.15	K129U	78.751	201.610	72.934	2.549	0.21938	0.88057	16 X	
K12Y07K	21.5	0.15	K129U	340.777	282.272	132.174	10.539	0.50317	1.90880	10 X	
K13A00C	25.2	0.15	K129U	328.841	129.204	303.604	1.949	0.40409	1.67959	7 X	
K13A04D	24.0	0.15	K129U	310.560	216.587	284.522	11.080	0.49114	1.83822	4 X	
K13A04F	22.4	0.15	K129U	241.107	86.388	96.366	7.889	0.18816	1.34398	5 X	
K13A11H	19.3	0.15	K129U	340.821	158.360	280.639	28.397	0.52316	2.28681	6 X	
K13A11J	23.4	0.15	K129U	298.208	207.897	281.128	23.684	0.33253	1.57537	3 X	
K13A20N	21.9	0.15	K129U	305.693	355.729	105.390	23.088	0.30511	1.46501	3 X	
K13A20O	21.8	0.15	K129U	318.529	177.126	279.550	26.026	0.35299	1.65556	3 X	
K13A27O	19.9	0.15	K129U	347.920	189.657	138.433	4.382	0.87724	2.46840	3 S	
K13A27P	19.6	0.15	K129U	4.202	96.285	301.376	9.991	0.46645	2.37000	3 S	
K13A27Q	24.4	0.15	K129U	297.244	184.372	313.672	3.463	0.33705	1.60379	1 S	
K13A27R	21.9	0.15	K129U	279.321	87.490	101.463	22.731	0.44751	1.65396	2 S	
K13A27S	21.4	0.15	K129U	358.074	253.160	105.252	33.451	0.22788	1.10287	2 X	
K13A27T	25.9	0.15	K129U	340.832	76.559	292.745	5.644	0.20830	1.03488	1 S	
K13A27U	18.7	0.15	K129U	304.743	169.137	297.050	32.615	0.24724	1.43954	1 X	

## New one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K12TE0M	16.4	0.15	K12B9	21.720	304.110	78.988	32.129	0.25262	2.66612	87 W	
K12U61B	16.2	0.15	K12BT	16.981	169.397	277.433	14.677	0.05912	3.14065	79 X	
K12U78D	15.9	0.15	K12AK	328.889	45.170	40.110	3.355	0.22529	3.97668	57 S	
K12UF8Q	21.0	0.15	K12BT	355.512	222.108	216.322	5.476	0.39133	2.18287	78 W	



K12V76W	17.2	0.15	K12BT	22.677	90.513	305.023	26.178	0.44780	2.59748	62 W
K12VA8A	17.6	0.15	K12BT	19.570	341.492	77.088	7.752	0.25172	2.33671	57 X
K12W25A	15.8	0.15	K12BT	20.646	130.388	301.913	31.443	0.19665	2.62269	45 W
K12X02B	16.3	0.15	K12BT	326.588	240.881	230.135	8.036	0.11434	2.76270	45 X
K12X04J	16.2	0.15	K12CJ	52.738	150.432	205.724	11.255	0.27047	2.53414	36 X
K12X09B	15.4	0.15	K12BT	268.950	271.179	253.715	10.689	0.05690	3.05199	77 X
K12X200	15.5	0.15	K12BT	355.130	0.089	71.869	10.216	0.05939	3.18419	45 X
K12X29M	16.8	0.15	K12BT	10.822	153.321	259.656	10.036	0.16581	3.04840	62 X
K12X29N	16.3	0.15	K12BT	293.862	252.846	256.064	13.217	0.12810	2.81418	62 X
K12X40F	16.6	0.15	K12CJ	342.435	309.232	162.273	9.327	0.28808	3.29222	36 W
K12X49X	18.2	0.15	K12BT	350.910	356.399	86.887	6.003	0.26545	2.60045	55 X
K12X53Y	16.9	0.15	K12BT	337.131	206.898	259.765	15.986	0.24415	2.74602	47 X
K12X64V	16.4	0.15	K12CJ	357.642	226.740	212.278	10.557	0.06888	3.08289	35 X
K12X65R	17.5	0.15	K12CJ	47.274	178.884	202.181	7.664	0.11403	2.48848	35 X
K12X65U	15.8	0.15	K12BT	248.784	321.564	228.580	15.574	0.05091	3.21767	62 X
K12X67R	16.3	0.15	K12CJ	57.648	223.274	142.086	8.776	0.12898	3.07660	35 X
K12X690	15.7	0.15	K12CJ	38.627	215.687	173.769	9.701	0.11443	3.16308	34 X
K12X69Q	16.4	0.15	K12CJ	65.793	220.343	138.376	10.827	0.11057	3.04738	34 X
K12X69Z	17.0	0.15	K12CJ	9.561	275.607	146.605	8.100	0.18880	3.11468	34 X
K12X85N	16.9	0.15	K12CJ	38.379	267.911	117.198	17.000	0.19726	2.51804	32 X
K12X85V	18.4	0.15	K12BT	5.672	195.769	227.906	14.120	0.27182	2.65586	43 X
K12X95S	16.9	0.15	K12CJ	13.287	319.640	98.842	9.349	0.22538	2.78493	30 X
K12XA5N	18.6	0.15	K12CJ	13.406	15.010	59.667	7.133	0.29010	2.44088	32 X
K12XB5N	17.2	0.15	K12BT	41.245	200.989	170.004	6.505	0.24886	2.30325	49 X
K12XB5Y	16.7	0.15	K12CJ	8.779	213.270	213.985	13.227	0.18046	2.77211	32 X
K12XB5Z	15.4	0.15	K12CJ	123.186	104.474	202.386	11.628	0.11697	2.51411	32 X
K12XB8A	16.4	0.15	K12CJ	328.192	63.171	69.758	11.036	0.01008	2.98492	32 X
K12XC0J	15.3	0.15	K12CJ	339.969	200.235	294.593	26.411	0.13098	3.17703	30 X
K12XC3W	16.5	0.15	K12BT	342.882	252.821	202.854	9.312	0.08408	3.02479	43 X
K12XC4T	16.2	0.15	K12BT	71.534	129.654	213.646	10.292	0.19037	2.55716	43 X
K12XC8B	16.0	0.15	K12CJ	309.824	71.523	93.416	22.094	0.10578	3.14961	29 X
K12XD0U	17.4	0.15	K12CJ	16.237	174.119	238.754	13.922	0.24884	2.61693	35 X
K12XD1H	15.4	0.15	K12CJ	44.558	149.514	237.182	21.037	0.08658	3.11645	35 X
K12XD2M	18.3	0.15	K12CJ	343.028	272.000	195.760	5.278	0.23570	2.53432	35 X
K12XD5L	16.7	0.15	K12CJ	61.332	215.664	138.343	3.905	0.17176	2.56390	27 X
K12XD5Q	17.3	0.15	K12CJ	47.640	289.827	82.369	7.493	0.15952	2.41078	27 X
K12XD7P	15.9	0.15	K12CJ	6.235	215.696	217.179	12.488	0.18680	2.97701	32 X
K12XD8Q	18.7	0.15	K12BT	2.911	182.493	246.999	20.626	0.07867	1.84878	43 W
K12XD8Y	16.8	0.15	K12CJ	324.626	302.603	179.963	9.641	0.11522	2.57397	34 X
K12XE3R	17.1	0.15	K12BT	354.469	359.255	75.669	12.952	0.18801	2.85769	50 X
K12XE4E	15.6	0.15	K12CJ	350.039	313.488	136.805	10.894	0.07419	2.99218	30 X
K12XE7U	15.0	0.15	K12CJ	58.495	280.360	91.110	10.926	0.02832	3.01892	35 X
K12XE9C	15.6	0.15	K12CJ	252.163	321.032	233.095	20.995	0.08225	3.07607	35 X
K12XF0M	17.9	0.15	K12CJ	9.569	264.946	157.296	7.971	0.29726	2.72274	32 X
K12XF1R	17.8	0.15	K12CJ	19.564	283.648	154.676	3.960	0.14324	2.28449	28 X
K12XF5D	16.2	0.15	K12CJ	320.884	244.345	241.305	9.933	0.14031	2.69092	23 X
K12Y00J	18.0	0.15	K12CJ	18.545	307.373	118.181	31.739	0.32315	2.57356	21 S
K12Y02V	18.6	0.15	K12CJ	341.825	44.572	99.711	35.010	0.44948	2.59190	19 S
K12Y06A	17.6	0.15	K12CJ	55.057	272.075	126.291	24.051	0.02734	1.99993	18 S
K12Y07S	18.1	0.15	K12CJ	70.135	54.205	329.009	19.862	0.09195	1.91787	11 X
K13A00E	18.3	0.15	K12CJ	338.001	57.498	83.635	30.388	0.32915	2.54654	18 S
K13A00W	18.6	0.15	K12CJ	268.290	159.748	47.387	6.241	0.14862	1.99526	7 W
K13A01X	17.9	0.15	K12CJ	324.442	261.895	234.296	15.214	0.21807	2.45971	5 X
K13A01Y	16.2	0.15	K12CJ	44.215	249.189	132.802	11.466	0.13850	2.99729	5 X
K13A02J	16.0	0.15	K12CJ	344.569	223.605	281.182	12.313	0.21190	2.64526	5 X
K13A04K	15.7	0.15	K12CJ	320.352	237.634	273.740	16.102	0.08376	3.08307	5 X
K13A11E	16.8	0.15	K12CJ	310.806	70.001	130.578	9.407	0.27156	2.64472	4 X
K13A12E	18.0	0.15	K12CJ	341.445	84.127	46.964	6.893	0.16865	2.24537	5 X
K13A14J	18.2	0.15	K12CJ	319.738	180.724	325.738	5.051	0.08465	2.24420	4 X
K13A19Z	15.9	0.15	K12CJ	221.827	340.112	292.042	16.645	0.27542	2.74188	2 X
K13A20B	17.6	0.15	K12CJ	335.833	92.787	91.516	20.312	0.45482	2.67585	3 W
K13A20J	16.4	0.15	K12CJ	17.334	46.019	304.226	16.092	0.22064	1.89983	2 W
K13A27D	15.7	0.15	K1318	353.327	121.977	319.027	13.438	0.37544	3.86872	2 X
K13A27H	18.9	0.15	K12CJ	341.578	294.072	210.021	2.787	0.29390	1.92208	2EX
K13A27J	17.9	0.15	K12CJ	341.608	42.353	102.312	21.080	0.18147	1.84986	2EX
K13A27K	20.8	0.15	K12CJ	273.358	257.367	293.537	29.991	0.05808	1.69412	2 X
K13A27L	17.1	0.15	K1318	292.254	70.536	90.790	26.931	0.17031	1.99865	1EX
K13A27M	18.5	0.15	K1318	347.375	50.997	75.377	21.857	0.03261	1.75128	1 X
K13A27N	17.6	0.15	K1318	22.007	89.971	357.752	18.474	0.05982	1.94829	1EX
K13A28B	16.4	0.15	K12CJ	54.731	298.018	94.709	21.661	0.16217	3.04040	5 W
K13A31X	17.9	0.15	K12BT	21.409	87.756	336.704	18.387	0.11473	1.92380	74 K
K13A31Y	20.2	0.15	K12CJ	352.243	244.565	228.524	6.051	0.30682	1.99637	28 K

## New observations:

K01E18B	HC2013	01	08.53832	13	44	03.52	-21	26	38.6	20.2	RoEA046291
K01E18B	HC2013	01	08.53986	13	44	03.92	-21	26	36.2	20.3	RoEA046291
K01E18B	HC2013	01	08.54139	13	44	04.38	-21	26	32.9	20.5	RoEA046291
K01Y02M	KC2013	01	08.79791	05	13	55.44	+24	43	31.1	19.7	VqEA046A13
K01Y02M	KC2013	01	08.81979	05	13	56.84	+24	43	44.0	19.7	VqEA046A13
K02A01Y	C2013	01	06.99269	00	55	26.01	+54	43	12.2	16.7	rEA046726
K02A01Y	C2013	01	06.99740	00	55	20.83	+54	39	02.5	16.8	rEA046726

K02A01Y	C2013	01	06.99975	00	55	18.62	+54	37	04.5	16.9	rEA046726
K02A01Y	C2013	01	07.00210	00	55	16.21	+54	35	04.8	16.7	rEA046726
K02A01Y	C2013	01	07.00446	00	55	13.85	+54	33	06.4	17.0	rEA046726
K02B25G	HC2013	01	08.54960	13	33	39.98	-00	22	21.1	21.3	RoEA046291
K02B25G	HC2013	01	08.55846	13	33	40.60	-00	23	17.0	21.7	RoEA046291
K03G00W	C2013	01	07.31170	12	24	26.50	-30	30	03.8	20.3	VuEA046807
K03G00W	C2013	01	07.31573	12	24	26.83	-30	30	04.6	20.2	VuEA046807
K03G00W	C2013	01	07.31976	12	24	27.17	-30	30	05.4	20.1	VuEA046807
K03G00W	C2013	01	07.32378	12	24	27.51	-30	30	06.4	20.0	VuEA046807
K05D00D	QC2013	01	08.48330	05	36	43.81	-55	16	10.7	18.9	VqEA046E12
K05D00D	QC2013	01	08.48578	05	36	46.45	-55	15	39.2	19.0	VqEA046E12
K05E94K	KC2013	01	08.50073	08	06	56.56	+25	03	11.0	22.0	RoEA046291
K05E94K	KC2013	01	08.51646	08	06	55.26	+25	03	19.0	22.1	RoEA046291
K07Y01X	C2013	01	08.46152	13	03	52.92	+02	20	08.3	18.2	VrEA046703
K07Y01X	C2013	01	08.46654	13	03	53.53	+02	19	54.4	18.1	VrEA046703
K07Y01X	C2013	01	08.47676	13	03	54.64	+02	19	27.2	18.1	VrEA046703
K08H04V	C2013	01	07.03941	02	20	15.06	-39	02	37.0	20.1	VuEA046807
K08H04V	C2013	01	07.04343	02	20	15.70	-39	02	41.1	20.1	VuEA046807
K08H04V	C2013	01	07.04745	02	20	16.30	-39	02	45.2	20.2	VuEA046807
K08H04V	C2013	01	07.05147	02	20	16.88	-39	02	49.4	20.1	VuEA046807
K08X02E	C2013	01	08.17581	02	49	37.44	+33	38	52.2	19.2	VrEA046703
K08X02E	C2013	01	08.18028	02	49	38.76	+33	38	57.4	19.1	VrEA046703
K08X02E	C2013	01	08.18475	02	49	39.03	+33	39	01.9	19.1	VrEA046703
K08X02E	C2013	01	08.18926	02	49	39.86	+33	39	08.1	19.5	VrEA046703
K10W09E	C2013	01	07.27238	10	30	54.13	-13	43	58.6	20.7	VuEA046807
K10W09E	C2013	01	07.27581	10	30	53.51	-13	44	14.5	20.6	VuEA046807
K10X69L	KC2013	01	08.88420	08	46	30.54	+31	10	26.8	19.7	VqEA046A13
K10X69L	KC2013	01	08.90687	08	46	29.57	+31	11	08.9	20.0	VqEA046A13
K12L09L	C2013	01	07.13927	06	26	05.73	-09	20	07.5	21.7	VuEA046807
K12L09L	C2013	01	07.14430	06	26	05.22	-09	20	00.0	21.5	VuEA046807
K12L09L	C2013	01	07.14932	06	26	04.76	-09	19	52.5	21.5	VuEA046807
K12L09L	C2013	01	07.15453	06	26	04.24	-09	19	44.8	21.7	VuEA046807
K12L09L	C2013	01	07.15933	06	26	03.78	-09	19	37.5	21.4	VuEA046807
K12P00W	C2013	01	07.21954	08	43	40.05	-34	57	44.3	20.5	VuEA046807
K12P00W	C2013	01	07.22595	08	43	39.38	-34	57	43.9	20.6	VuEA046807
K12P00W	C2013	01	07.23217	08	43	38.70	-34	57	43.4	20.4	VuEA046807
K12P28P	C2013	01	08.44934	10	38	31.02	-03	05	16.1	19.8	RoEA046695
K12P28P	C2013	01	08.45431	10	38	30.50	-03	05	15.2	20.0	RoEA046695
K12P28P	C2013	01	08.46071	10	38	29.88	-03	05	15.0	19.9	RoEA046695
K12Q50E	C2013	01	07.23900	10	38	40.26	-30	51	26.4	18.9	VuEA046807
K12Q50E	C2013	01	07.24241	10	38	40.19	-30	51	24.8	19.0	VuEA046807
K12Q50E	C2013	01	07.24501	10	38	40.13	-30	51	23.6	18.9	VuEA046807
K12Q50E	C2013	01	07.24822	10	38	40.07	-30	51	22.1	18.9	VuEA046807
K12Q50E	C2013	01	07.25103	10	38	40.01	-30	51	20.9	19.0	VuEA046807
K12R03G	C2013	01	07.05770	23	55	05.68	-16	41	46.6	21.5	VuEA046807
K12R03G	C2013	01	07.06172	23	55	06.05	-16	41	42.5	21.3	VuEA046807
K12R03G	C2013	01	07.06573	23	55	06.38	-16	41	38.5	21.4	VuEA046807
K12T00S	C2013	01	08.06047	01	30	40.30	-27	08	36.5	22.0	VuEA046807
K12T00S	C2013	01	08.06754	01	30	41.26	-27	08	29.9	22.0	VuEA046807
K12T00S	C2013	01	08.07598	01	30	42.38	-27	08	21.6	22.1	VuEA046807
K12T79H	C2013	01	07.27141	12	41	40.85	-30	55	26.5	21.2	VuEA046807
K12T79H	C2013	01	07.27501	12	41	40.96	-30	55	14.7	21.1	VuEA046807
K12T79H	C2013	01	07.28234	12	41	41.14	-30	54	49.5	21.0	VuEA046807
K12T79H	C2013	01	07.28578	12	41	41.22	-30	54	38.2	21.2	VuEA046807
K12V05A	C2013	01	08.34058	06	43	00.15	+69	22	27.2	20.2	RoEA046695
K12V05A	C2013	01	08.34338	06	43	02.27	+69	22	15.8	20.3	RoEA046695
K12V05A	C2013	01	08.34682	06	43	04.87	+69	22	01.1	20.1	RoEA046695
K12V80F	C2013	01	08.22013	00	08	08.502	-03	41	03.59	21.1	wLEA046F51
K12V80F	C2013	01	08.22410	00	08	09.329	-03	40	59.40	21.3	wLEA046F51
K12V80F	C2013	01	08.22804	00	08	10.118	-03	40	55.17	21.3	wLEA046F51
K12W04L	C2013	01	07.08710	03	37	16.01	-29	14	29.5	21.9	VuEA046807
K12W04L	C2013	01	07.09596	03	37	16.26	-29	14	24.9	21.7	VuEA046807
K12W04L	C2013	01	07.10521	03	37	16.51	-29	14	20.5	21.8	VuEA046807
K12X06Y	C2013	01	08.14900	02	55	53.50	+38	38	25.6	19.8	RoEA046695
K12X06Y	C2013	01	08.15853	02	55	53.09	+38	38	19.6	19.6	RoEA046695
K12X06Y	C2013	01	08.16740	02	55	52.74	+38	38	14.7	19.5	RoEA046695
K12X93T	KC2013	01	08.40902	07	02	50.11	+33	38	30.7	20.5	RoEA046291
K12X93T	KC2013	01	08.41312	07	02	49.90	+33	38	33.0	20.6	RoEA046291
K12X93T	KC2013	01	08.41723	07	02	49.61	+33	38	35.4	20.7	RoEA046291
K12XB1O	C2013	01	08.17442	03	00	28.33	+28	29	22.6	21.0	RoEA046695
K12XB1O	C2013	01	08.19858	03	00	27.41	+28	29	08.6	21.2	RoEA046695
K12XB1O	C2013	01	08.20693	03	00	27.08	+28	29	04.6	22.0	RoEA046695
K12XB2D	HC2013	01	08.53533	13	47	35.17	+02	05	12.4	18.3	RoEA046291
K12XB2D	HC2013	01	08.53564	13	47	35.54	+02	05	10.9	18.5	RoEA046291
K12XB2D	HC2013	01	08.53594	13	47	35.86	+02	05	09.6	18.4	RoEA046291
K12XB2F	C2013	01	08.23409907	01	38.89	+37	54	55.6	17.4	VuEA046H21	
K12XB2F	C2013	01	08.23715907	01	39.40	+37	54	43.3	17.7	VuEA046H21	
K12XB2F	C2013	01	08.24021707	01	39.91	+37	54	31.0	17.7	VuEA046H21	
K12XB2F	C2013	01	08.24348007	01	40.44	+37	54	17.8	17.6	VuEA046H21	
K12XB2F	C2013	01	08.24654507	01	40.93	+37	54	05.5	17.6	VuEA046H21	
K12XB2F	C2013	01	08.24952807	01	41.43	+37	53	53.3	17.6	VuEA046H21	

K12XB2F	KC2013	01	08.81347	07	03	25.58	+37	15	21.8	16.3	RoEA046J16
K12XB2F	KC2013	01	08.81684	07	03	26.18	+37	15	08.3	16.5	RoEA046J16
K12XB2F	KC2013	01	08.82015	07	03	26.77	+37	14	54.8	16.9	RoEA046J16
K12XB2F	KC2013	01	08.82341	07	03	27.35	+37	14	42.3	16.9	RoEA046J16
K12XB2F	KC2013	01	08.82679	07	03	27.91	+37	14	28.4	16.8	RoEA046J16
K12XB2F	KC2013	01	08.84193	07	03	30.53	+37	13	35.5	17.5	VqEA046A13
K12XB2F	KC2013	01	08.86412	07	03	34.25	+37	12	06.4	17.4	VqEA046A13
K12XD3D	C2013	01	07.18517	06	25	33.97	-26	25	16.2	19.7	VuEA046807
K12XD3D	C2013	01	07.18803	06	25	33.99	-26	25	27.3	19.7	VuEA046807
K12XD3D	C2013	01	07.19089	06	25	34.01	-26	25	38.2	19.9	VuEA046807
K12XD3D	C2013	01	07.19373	06	25	34.03	-26	25	49.2	19.9	VuEA046807
K12XD3D	C2013	01	07.19657	06	25	34.05	-26	26	00.1	19.9	VuEA046807
K12XD3E	KC2013	01	09.09000	00	37	20.45	+02	52	07.5	21.2	RoEA046291
K12XD3E	KC2013	01	09.09583	00	37	19.56	+02	51	45.7	21.3	RoEA046291
K12XD3E	KC2013	01	09.10121	00	37	18.73	+02	51	25.8	21.5	RoEA046291
K12XD3F	KC2013	01	09.21527	06	08	25.47	+24	28	52.3	20.8	RoEA046291
K12XD3F	KC2013	01	09.22019	06	08	25.11	+24	28	49.3		oEA046291
K12XD4J	C2013	01	09.11441	05	47	19.54	+17	30	54.6	21.2	RoEA046695
K12XD4J	C2013	01	09.15308	05	47	19.25	+17	31	08.6	21.1	RoEA046695
K12XD4J	C2013	01	09.17255	05	47	19.10	+17	31	15.4	21.3	RoEA046695
K12XD4J	HC2013	01	09.20839	05	47	18.71	+17	31	28.0		oEA046291
K12XD4J	HC2013	01	09.22992	05	47	18.58	+17	31	35.6		oEA046291
K12Y01O	C2013	01	08.24058	03	52	54.88	+47	28	13.0	20.2	RoEA046695
K12Y01O	C2013	01	08.24337	03	52	55.77	+47	28	20.9	20.4	RoEA046695
K12Y01O	C2013	01	08.24580	03	52	56.57	+47	28	27.7	20.3	RoEA046695
K12Y01Q	C2013	01	08.50381	13	06	46.40	-11	57	12.2	19.3	VrEA046703
K12Y01Q	C2013	01	08.50890	13	06	51.76	-11	57	23.8	19.5	VrEA046703
K12Y01Q	C2013	01	08.51398	13	06	57.13	-11	57	36.7	19.2	VrEA046703
K12Y01Q	C2013	01	08.51913	13	07	02.46	-11	57	49.3	19.0	VrEA046703
K12Y01Q	HC2013	01	08.53264	13	07	16.73	-11	58	22.0	18.6	RoEA046291
K12Y01Q	HC2013	01	08.53297	13	07	17.08	-11	58	22.9	18.8	RoEA046291
K12Y01Q	HC2013	01	08.53328	13	07	17.39	-11	58	23.7	18.9	RoEA046291
K12Y03O	C2013	01	08.27983	05	30	31.45	+40	41	21.1	19.7	RoEA046695
K12Y03O	C2013	01	08.28288	05	30	32.07	+40	41	15.5	19.6	RoEA046695
K12Y03O	C2013	01	08.28557	05	30	32.63	+40	41	10.1	19.6	RoEA046695
K12Y03Q	KC2013	01	08.88875	08	53	13.38	+32	52	33.5	19.9	VqEA046A13
K12Y03Q	KC2013	01	08.91231	08	53	21.40	+32	53	38.0	20.0	VqEA046A13
K12Y06Y	C2013	01	08.25843	04	01	06.06	+37	10	35.3	20.8	RoEA046695
K12Y06Y	C2013	01	08.26248	04	01	07.09	+37	10	28.8	20.9	RoEA046695
K12Y06Y	C2013	01	08.26639	04	01	08.07	+37	10	23.0	20.9	RoEA046695
K12Y06Y	KC2013	01	08.37912	04	01	36.62	+37	07	27.4	19.6	RoEA046291
K12Y06Y	KC2013	01	08.38091	04	01	37.11	+37	07	24.6	19.4	RoEA046291
K12Y07D	KC2013	01	08.40194	06	04	05.44	+40	22	50.8	19.9	RoEA046291
K12Y07D	KC2013	01	08.40301	06	04	04.82	+40	22	51.6	19.8	RoEA046291
K12Y07D	KC2013	01	08.40408	06	04	04.21	+40	22	52.4	20.2	RoEA046291
K12Y07K	KC2013	01	08.42409	08	47	54.17	-08	47	04.1	19.1	RoEA046291
K12Y07K	KC2013	01	08.42523	08	47	54.16	-08	46	57.1	19.1	RoEA046291
K12Y07K	KC2013	01	08.42638	08	47	54.11	-08	46	50.5	18.8	RoEA046291
K13A00C	KC2013	01	08.25258307	36	59.22	+28	59	10.0			uEA046H21
K13A00C	KC2013	01	08.25731007	37	00.43	+28	58	52.9	20.4	VuEA046H21	
K13A00C	KC2013	01	08.26194807	37	01.64	+28	58	36.4	20.4	VuEA046H21	
K13A04D	C2013	01	07.21572	11	17	59.12	-29	40	11.8	18.5	VuEA046807
K13A04D	C2013	01	07.21743	11	18	02.78	-29	41	24.5	18.3	VuEA046807
K13A04D	C2013	01	07.21915	11	18	06.42	-29	42	36.6	18.2	VuEA046807
K13A04F	KC2013	01	08.21746607	04	09.25	+29	48	37.7	20.8	VuEA046H21	
K13A04F	KC2013	01	08.22375807	04	08.52	+29	48	51.1	20.4	VuEA046H21	
K13A04F	KC2013	01	08.23021607	04	07.75	+29	49	04.0	20.7	VuEA046H21	
K13A11H	KC2013	01	08.26728808	16	56.23	-14	04	27.6	17.2	VuEA046H21	
K13A11H	KC2013	01	08.27100308	16	55.44	-14	04	50.4	18.1	VuEA046H21	
K13A11H	KC2013	01	08.27467908	16	54.68	-14	05	12.9	17.8	VuEA046H21	
K13A11H	KC2013	01	08.27834208	16	53.92	-14	05	35.6	18.1	VuEA046H21	
K13A11H	C2013	01	09.20078	08	13	59.90	-15	36	44.9	18.7	RoEA046G48
K13A11H	C2013	01	09.20152	08	13	59.78	-15	36	49.0	19.4	RoEA046G48
K13A11H	C2013	01	09.20192	08	13	59.73	-15	36	51.8	19.2	RoEA046G48
K13A11H	C2013	01	09.20269	08	13	59.56	-15	36	56.5	19.9	RoEA046G48
K13A11J	C2013	01	08.29934	04	37	54.088	+09	45	04.50	20.5	wLEA046F51
K13A11J	C2013	01	08.31319	04	37	54.331	+09	42	00.50	20.5	wLEA046F51
K13A11J	C2013	01	08.32707	04	37	54.550	+09	38	56.76	20.8	wLEA046F51
K13A20N	KC2013	01	08.06389702	52	01.87	+07	24	08.7	18.6	VuEA046H21	
K13A20N	KC2013	01	08.06752902	52	01.20	+07	25	23.3	18.8	VuEA046H21	
K13A20N	KC2013	01	08.07169702	52	00.45	+07	26	48.8	18.6	VuEA046H21	
K13A20N	KC2013	01	08.07598002	51	59.69	+07	28	16.8	18.6	VuEA046H21	
K13A20N	KC2013	01	08.08027002	51	58.92	+07	29	44.7	18.6	VuEA046H21	
K13A20N	KC2013	01	08.08455602	51	58.15	+07	31	12.7	18.6	VuEA046H21	
K13A20N	KC2013	01	08.08879902	51	57.38	+07	32	39.5	18.6	VuEA046H21	
K13A20N	KC2013	01	08.89630	02	49	59.53	+12	10	07.1	18.2	RoEA046J16
K13A20N	KC2013	01	08.89851	02	49	59.12	+12	10	53.3	17.9	RoEA046J16
K13A20N	KC2013	01	08.90095	02	49	58.70	+12	11	43.3	17.9	RoEA046J16
K13A20N	KC2013	01	08.90352	02	49	58.26	+12	12	36.5	17.7	RoEA046J16
K13A20N	KC2013	01	08.90592	02	49	57.84	+12	13	26.2	17.8	RoEA046J16
K13A20N	C2013	01	09.16347	02	49	20.38	+13	43	11.8	19.4	RoEA046G48

K13A20N	C2013	01	09.16411	02	49	20.24	+13	43	24.7	19.4	RoEA046G48
K13A20N	C2013	01	09.16478	02	49	20.12	+13	43	38.5	19.0	RoEA046G48
K13A20N	C2013	01	09.16545	02	49	20.00	+13	43	52.5	19.4	RoEA046G48
K13A20N	C2013	01	09.16604	02	49	19.91	+13	44	04.7	19.5	RoEA046G48
K13A20N	C2013	01	09.16668	02	49	19.80	+13	44	18.1	19.4	RoEA046G48
K13A200	C2013	01	09.17160	06	15	43.76	-14	56	47.7	18.8	RoEA046G48
K13A200	C2013	01	09.17223	06	15	43.73	-14	56	54.1	19.2	RoEA046G48
K13A200	C2013	01	09.17353	06	15	43.68	-14	57	07.6	19.0	RoEA046G48
K13A200	C2013	01	09.17486	06	15	43.63	-14	57	22.5	19.5	RoEA046G48
K13A27S	KC2013	01	07.88705	07	03	25.48	+31	50	41.6	17.8	RqEA046157
K13A27S	KC2013	01	07.88865	07	03	24.80	+31	51	00.3	17.8	RqEA046157
K13A27S	KC2013	01	07.89024	07	03	24.25	+31	51	18.7	17.8	RqEA046157
K13A27S	C2013	01	08.57559	06	59	10.77	+34	00	58.7	18.1	VuEA046900
K13A27S	C2013	01	08.58128	06	59	08.55	+34	02	01.5	18.3	VuEA046900
K13A27S	KC2013	01	08.76633	06	58	02.56	+34	35	20.6	17.9	RoEA046B67
K13A27S	KC2013	01	08.77084	06	58	00.89	+34	36	10.1	17.4	RoEA046B67
K13A27S	KC2013	01	08.77536	06	57	59.10	+34	36	59.0	17.8	RoEA046B67
K13A27S	KC2013	01	08.99543	06	56	34.52	+35	16	37.6	17.7	RoEA046B67
K13A27S	KC2013	01	08.99746	06	56	33.73	+35	16	59.3	17.4	RoEA046B67
K13A27S	KC2013	01	08.99948	06	56	32.97	+35	17	20.8	17.4	RoEA046B67
K13A27S	KC2013	01	09.00151	06	56	32.18	+35	17	41.9	17.6	RoEA046B67
K13A27S	KC2013	01	09.00353	06	56	31.40	+35	18	03.7	17.7	RoEA046B67
K13A27S	KC2013	01	09.00556	06	56	30.60	+35	18	24.9	17.7	RoEA046B67
K13A27S	KC2013	01	09.00759	06	56	29.80	+35	18	46.3	17.7	RoEA046B67
K13A27S	KC2013	01	09.00962	06	56	29.11	+35	19	07.9	17.7	RoEA046B67
K13A27S	KC2013	01	09.01165	06	56	28.25	+35	19	29.9	17.6	RoEA046B67
K13A27S	C2013	01	09.19774	06	55	22.95	+35	52	23.3	18.1	RoEA046G48
K13A27S	C2013	01	09.19813	06	55	22.78	+35	52	27.4	18.3	RoEA046G48
K13A27S	C2013	01	09.19855	06	55	22.66	+35	52	32.0	18.0	RoEA046G48
K13A27S	C2013	01	09.19895	06	55	22.51	+35	52	36.5	18.0	RoEA046G48
K13A27S	C2013	01	09.19933	06	55	22.39	+35	52	40.1	18.2	RoEA046G48
K13A27S	C2013	01	09.19973	06	55	22.18	+35	52	44.3	17.8	RoEA046G48
K13A27U	C2013	01	08.55422	10	10	59.60	+47	49	06.1	15.8	RoEA046300
K13A27U	C2013	01	08.55553	10	10	58.63	+47	48	53.7	15.7	RoEA046300
K13A27U	C2013	01	08.55684	10	10	57.62	+47	48	41.0	15.7	RoEA046300
K13A27U	C2013	01	08.55815	10	10	56.60	+47	48	28.5	15.6	RoEA046300
K13A27U	C2013	01	08.55945	10	10	55.60	+47	48	16.1	15.7	RoEA046300
K13A27U	C2013	01	08.56076	10	10	54.60	+47	48	03.6	15.7	RoEA046300
K13A27U	C2013	01	08.56206	10	10	53.64	+47	47	50.9	15.4	RoEA046300
K13A27U	C2013	01	08.56336	10	10	52.57	+47	47	38.6	15.8	RoEA046300
03199	C2013	01	08.48827	12	49	18.80	-03	29	16.0	18.1	VrEA046703
03199	C2013	01	08.49337	12	49	18.87	-03	29	21.6	17.9	VrEA046703
03199	C2013	01	08.49854	12	49	18.98	-03	29	28.2	17.9	VrEA046703
03908	KC2013	01	08.03915202	32	34.74	+14	19	59.5	18.0	VuEA046H21	
03908	KC2013	01	08.04344602	32	35.86	+14	20	03.8	18.2	VuEA046H21	
03908	KC2013	01	08.04783002	32	37.00	+14	20	08.1	18.7	VuEA046H21	
03908	KC2013	01	08.05211302	32	38.12	+14	20	12.5	18.7	VuEA046H21	
03908	KC2013	01	08.05551702	32	39.00	+14	20	15.9	18.6	VuEA046H21	
03908	KC2013	01	08.05849002	32	39.78	+14	20	18.9	18.6	VuEA046H21	
04179	C2012	12	30.96916	06	03	45.82	+21	53	57.1	11.8	RcEA046A24
04179	C2012	12	30.96942	06	03	45.87	+21	53	57.2	11.8	RcEA046A24
04179	C2012	12	31.01594	06	03	56.60	+21	54	15.3	11.8	RcEA046A24
04179	C2012	12	31.01620	06	03	56.66	+21	54	15.4	11.8	RcEA046A24
11284	C2012	12	31.06672	10	43	20.47	+11	05	38.3	17.6	RcEA046A24
11284	C2012	12	31.06744	10	43	20.59	+11	05	37.0	17.0	RcEA046A24
11284	C2012	12	31.11305	10	43	28.51	+11	04	30.0	17.2	RcEA046A24
11284	C2012	12	31.11377	10	43	28.70	+11	04	28.2	16.9	RcEA046A24
12711	C2012	12	31.06350	10	11	12.63	+04	23	38.8	16.0	RcEA046A24
12711	C2012	12	31.06422	10	11	12.57	+04	23	36.9	16.4	RcEA046A24
12711	C2012	12	31.10983	10	11	08.51	+04	21	11.8	15.7	RcEA046A24
12711	C2012	12	31.11056	10	11	08.45	+04	21	09.6	16.3	RcEA046A24
15745	C2013	01	07.50903	07	24	09.988	+11	08	40.84	20.1	gLEA046F51
15745	C2013	01	07.52148	07	24	08.889	+11	08	47.66	20.1	gLEA046F51
15745	C2013	01	07.53430	07	24	07.758	+11	08	54.66	19.6	rLEA046F51
52762	C2012	12	31.06826	11	00	39.46	+25	52	26.8	15.4	RcEA046A24
52762	C2012	12	31.06899	11	00	39.53	+25	52	24.8	15.4	RcEA046A24
52762	C2012	12	31.11461	11	00	43.17	+25	50	33.3	16.2	RcEA046A24
52762	C2012	12	31.11532	11	00	43.26	+25	50	31.6	16.1	RcEA046A24
88959	C2013	01	08.21947	00	11	14.360	-05	00	41.59	20.9	wLEA046F51
88959	C2013	01	08.22344	00	11	14.416	-05	00	35.28	21.1	wLEA046F51
88959	C2013	01	08.22738	00	11	14.484	-05	00	29.71	21.0	wLEA046F51
88959	C2013	01	08.23133	00	11	14.551	-05	00	23.77	21.0	wLEA046F51
99942	7C2013	01	08.48069	09	16	34.01	-25	04	15.1	15.7	RoEA046F65
99942	7C2013	01	08.48163	09	16	33.65	-25	04	13.9	15.7	RoEA046F65
99942	7C2013	01	08.48454	09	16	32.51	-25	04	10.1	15.9	RoEA046F65
99942	7C2013	01	08.48650	09	16	31.74	-25	04	07.5	15.8	RoEA046F65
99942	7C2013	01	08.48851	09	16	30.96	-25	04	04.9	15.9	RoEA046F65
99942	7C2013	01	08.48947	09	16	30.59	-25	04	03.7	15.9	RoEA046F65
99942	3C2013	01	08.49016	09	16	34.34	-25	02	29.4	15.7	RoEA046E10
99942	7C2013	01	08.49140	09	16	29.83	-25	04	01.2	15.9	RoEA046F65
99942	3C2013	01	08.49219	09	16	33.61	-25	02	27.2	15.7	RoEA046E10

99942	3C2013	01	08.49313	09	16	33.26	-25	02	26.1	15.7	RoEA046E10
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99942	7C2013	01	08.49431	09	16	28.68	-25	03	57.3	15.8	RoEA046F65
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99942	7C2013	01	08.49630	09	16	27.91	-25	03	54.7	15.9	RoEA046F65
99942	7C2013	01	08.49727	09	16	27.53	-25	03	53.5	15.9	RoEA046F65
99942	3C2013	01	08.49769	09	16	31.58	-25	02	20.7	15.7	RoEA046E10
D6795	C2013	01	08.19485	03	26	06.43	+31	32	00.0	20.1	VrEA046703
D6795	C2013	01	08.19986	03	26	06.10	+31	31	59.7	19.4	VrEA046703
D6795	C2013	01	08.20498	03	26	05.82	+31	31	58.6	20.0	VrEA046703
D6795	C2013	01	08.21006	03	26	05.35	+31	31	59.8	19.6	VrEA046703
D7805	C2013	01	08.53736	12	52	11.71	+31	38	12.9	17.1	VrEA046G96
D7805	C2013	01	08.54218	12	52	12.50	+31	38	15.4	17.1	VrEA046G96
D7805	C2013	01	08.54698	12	52	13.29	+31	38	17.8	17.2	VrEA046G96
D7805	C2013	01	08.55185	12	52	14.12	+31	38	20.3	17.1	VrEA046G96
D8937	C2013	01	07.04909	04	58	13.69	+19	14	44.7	17.3	rEA046726
D8937	C2013	01	07.05144	04	58	13.57	+19	14	53.6	17.2	rEA046726
D8937	KC2013	01	08.79199	04	57	05.83	+20	54	16.6	17.7	VqEA046A13
D8937	KC2013	01	08.81426	04	57	04.96	+20	55	28.5	17.9	VqEA046A13
E1526	C2013	01	07.07544	02	12	21.97	-64	36	07.3	21.1	VuEA046807
E1526	C2013	01	07.07830	02	12	23.21	-64	36	01.2	21.0	VuEA046807
E1526	C2013	01	07.08116	02	12	24.44	-64	35	55.4	21.2	VuEA046807
E1526	C2013	01	07.08402	02	12	25.64	-64	35	49.7	21.2	VuEA046807
E1526	C2013	01	07.08687	02	12	26.88	-64	35	44.0	21.2	VuEA046807
F2679	C2013	01	07.51030	07	20	54.628+14	32	20	98	20.3	gLEA046F51
F2679	C2013	01	07.52275	07	20	53.639+14	32	22	65	20.4	gLEA046F51
F2679	C2013	01	07.53561	07	20	52.655+14	32	24	72	19.8	rLEA046F51
F2679	C2013	01	07.54777	07	20	51.710+14	32	26	75	19.8	rLEA046F51
F4347	C2012	12	31.06989	10	41	42.72	+56	40	43.0	15.6	RcEA046A24
F4347	C2012	12	31.07061	10	41	42.33	+56	40	43.3	15.6	RcEA046A24
F4347	C2012	12	31.11623	10	41	14.75	+56	40	51.4	15.5	RcEA046A24
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F4715	C2013	01	08.21947	00	19	01.525-05	22	38	53	20.0	wLEA046F51
F4715	C2013	01	08.22344	00	19	03.019-05	22	29	92	20.0	wLEA046F51
F4715	C2013	01	08.22738	00	19	04.507-05	22	21	31	19.9	wLEA046F51
F4715	C2013	01	08.23133	00	19	05.999-05	22	12	76	19.9	wLEA046F51
G2011	C2013	01	08.22079	00	08	16.766-00	02	20	56	19.1	wLEA046F51
G2011	C2013	01	08.22475	00	08	17.658-00	02	13	11	19.2	wLEA046F51
G2011	C2013	01	08.22870	00	08	18.537-00	02	05	73	19.2	wLEA046F51
G2011	C2013	01	08.23264	00	08	19.429-00	01	58	34	19.0	wLEA046F51
G3081	C2013	01	08.22410	00	07	06.389-02	55	13	63	20.9	wLEA046F51
G3081	C2013	01	08.22804	00	07	07.100-02	55	10	90	20.8	wLEA046F51
G3081	C2013	01	08.23198	00	07	07.796-02	55	07	87	21.0	wLEA046F51
K3471	C2013	01	07.02182	05	04	46.15	+29	54	12.9	17.4	rEA046726
K3471	C2013	01	07.02417	05	04	45.28	+29	54	23.4	16.9	rEA046726
K3471	C2013	01	08.10689004	59	22	20.8	+30	58	13.1	17.6	VuEA046H21
K3471	C2013	01	08.10923204	59	21	38	+30	58	20.7	18.0	VuEA046H21
K3471	C2013	01	08.11037804	59	21	02	+30	58	24.7	18.0	VuEA046H21
K3471	C2013	01	08.11190404	59	20	57	+30	58	29.6	17.9	VuEA046H21
K3471	C2013	01	08.11341004	59	20	10	+30	58	34.9	18.0	VuEA046H21
L2359	C2013	01	07.16509	04	31	00.84	-15	35	09.3	17.7	VuEA046807
L2359	C2013	01	07.16796	04	31	00.92	-15	35	02.0	17.7	VuEA046807
L2359	C2013	01	07.17082	04	31	00.99	-15	34	54.4	17.6	VuEA046807
L2359	C2013	01	07.17653	04	31	01.13	-15	34	39.7	17.7	VuEA046807
L2359	C2013	01	07.17940	04	31	01.23	-15	34	32.3	17.6	VuEA046807
L2359	C2013	01	07.18197	04	31	01.29	-15	34	25.5	17.6	VuEA046807
L2546	C2013	01	08.21815	00	08	47.640-06	52	24	65	21.4	wLEA046F51
L2546	C2013	01	08.22212	00	08	48.242-06	52	20	08	21.1	wLEA046F51
L2546	C2013	01	08.22607	00	08	48.818-06	52	15	53	21.2	wLEA046F51
L2546	C2013	01	08.23001	00	08	49.418-06	52	11	17	21.3	wLEA046F51
L9071	C2013	01	08.21947	00	19	31.572-05	06	38	18	19.9	wLEA046F51
L9071	C2013	01	08.22344	00	19	32.113-05	06	36	99	19.9	wLEA046F51
L9071	C2013	01	08.22738	00	19	32.648-05	06	35	84	19.9	wLEA046F51
L9071	C2013	01	08.23133	00	19	33.187-05	06	34	74	19.9	wLEA046F51
M9672	C2013	01	08.29904808	26	19	81	+35	15	00.5	16.8	VuEA046H21
M9672	C2013	01	08.30248008	26	19	15	+35	15	24.3	17.2	VuEA046H21
M9672	C2013	01	08.30840208	26	18	03	+35	16	05.2	16.8	VuEA046H21
M9672	C2013	01	08.31411908	26	16	94	+35	16	44.6	16.8	VuEA046H21
M9672	C2013	01	08.31697808	26	16	39	+35	17	04.4	16.8	VuEA046H21
M9672	C2013	01	08.32021908	26	15	78	+35	17	26.9	16.9	VuEA046H21
Q2623	C2012	12	30.97000	05	37	32.29	+14	52	23.4	17.3	RcEA046A24
Q2623	C2012	12	30.97072	05	37	32.03	+14	52	26.6	17.0	RcEA046A24
Q2623	C2012	12	31.01678	05	37	18.05	+14	55	16.5	17.0	RcEA046A24
Q2623	C2012	12	31.01751	05	37	17.83	+14	55	18.9	17.2	RcEA046A24
Q2623	KC2013	01	08.78651	04	54	58.81	+23	31	30.3	18.1	VqEA046A13
Q2623	KC2013	01	08.80879	04	54	52.54	+23	32	43.2	18.0	VqEA046A13
X0825	C2013	01	08.19539	03	32	53.84	+30	25	00.5	18.1	VrEA046703
X0825	C2013	01	08.20043	03	32	54.20	+30	24	58.5	18.1	VrEA046703
X0825	C2013	01	08.20552	03	32	54.56	+30	24	55.3	18.0	VrEA046703
X0825	C2013	01	08.21064	03	32	54.88	+30	24	53.9	18.3	VrEA046703
Y0048	C2013	01	08.23661	02	27	01.020-05	07	42	73	20.8	zLEA046F51

Y0048	C2013 01 08.24251 02 27 01.279-05 07 43.51	20.7 zLEA046F51
Y0048	C2013 01 08.24840 02 27 01.513-05 07 44.29	20.7 zLEA046F51
Y0048	C2013 01 08.25135 02 27 01.654-05 07 44.53	20.5 zLEA046F51
Y3098	C2013 01 08.47805 07 18 36.360+03 36 42.79	16.8 gLEA046F51
Y3098	C2013 01 08.49121 07 18 36.323+03 38 04.07	16.9 gLEA046F51

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