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M.P.E.C. 2012-H76

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DAILY ORBIT UPDATE (2012 APR. 28 UT)

Update to [MPEC 2012-H75](#)

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

**New identification:**

K02CP6X	K12H23L	MPCW
K03B58G	K12H24N	MPCW
K03F67C	K12H21Q	MPCW
K04RE2P	K12H23G	MPCW
K05G05H	K12H23U	MPCW
K05SS5P	K12H22J	MPCW
K05TD8O	K12H24D	MPCW
K05UK2L	K12H23Q	MPCW
K08CL1S	K12H22O	MPCW
K08K29D	K12H24P	MPCW
K09S33U	K12H21J	MPCW
K11C56M	K12H23S	MPCW

**New multiple-opposition orbits:**

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp	C
J94A07S	18.0	0.15	K123E	151.691	311.884	109.712	5.273	0.06827	2.27730	4	X
J95B15G	16.8	0.15	K123E	139.502	343.318	79.959	2.295	0.12976	2.54122	6	X
J95V10Q	18.0	0.15	K123E	282.752	161.549	151.044	3.020	0.24966	2.32079	4	X
J96R07E	16.7	0.15	K123E	254.556	155.352	171.808	13.934	0.18276	2.62007	5	X
J96R20R	6.8	0.15	K123E	136.243	48.886	163.518	5.299	0.17113	39.66571	6	X
J96T35V	17.2	0.15	K123E	142.387	351.673	62.837	6.117	0.17741	2.28745	5	X
J96V25N	16.8	0.15	K123E	5.439	142.703	59.737	5.966	0.10159	2.71795	6	X
J96X07Z	17.1	0.15	K123E	163.461	318.087	87.168	7.416	0.10046	2.28986	6	X
J97S10Z	8.5	0.15	K123E	24.500	342.434	9.397	11.784	0.36748	48.31991	5	X
J98H03E	21.8	0.15	K123E	202.301	309.436	53.548	3.378	0.44039	0.87799	6	X
J98R10N	16.6	0.15	K123E	172.024	232.691	167.732	4.150	0.05361	3.00322	5	X
J98S40Y	17.7	0.15	K123E	256.488	137.456	195.434	2.696	0.19364	2.38344	5	X
J98T38Q	16.3	0.15	K123E	191.402	343.072	32.890	11.304	0.07077	3.07971	3	X
J98U11E	17.2	0.15	K123E	176.265	303.158	85.189	2.408	0.18981	2.45965	6	X
J98U43R	8.3	0.15	K123E	356.304	18.612	53.865	8.751	0.22612	39.77371	4	X
J98W26O	16.5	0.15	K123E	223.775	330.578	26.144	2.917	0.20905	3.02971	6	X



















K07G39X	16.2	0.15	K123E	253.919	286.450	46.819	8.826	0.14583	2.92008	6 X
K07G45B	16.8	0.15	K123E	274.183	128.568	175.145	3.288	0.03593	2.92783	9 X
K07G48Q	15.3	0.15	K123E	194.697	316.210	61.663	10.392	0.08523	2.98793	7 X
K07G56U	16.2	0.15	K123E	149.072	356.910	56.832	12.834	0.04006	2.92273	3 X
K07G75L	16.0	0.15	K123E	240.085	273.753	66.270	10.907	0.08878	2.98054	4 X
K07H02Q	15.9	0.15	K123E	274.543	272.224	37.410	6.385	0.12330	2.90254	7 X
K07H16U	16.8	0.15	K123E	267.785	147.477	175.392	13.094	0.01301	2.64339	5 X
K07H27U	16.9	0.15	K123E	24.263	65.231	104.351	1.750	0.17679	2.97568	5 X
K07H41O	16.5	0.15	K123E	160.803	337.947	67.382	7.270	0.04340	2.96989	6 X
K07H41Q	16.0	0.15	K123E	238.966	276.734	78.947	8.754	0.09181	2.89177	7 X
K07H46A	16.6	0.15	K123E	164.182	4.750	33.195	12.880	0.15426	2.89175	4 X
K07H80G	16.6	0.15	K123E	301.841	184.892	91.390	4.713	0.08595	2.97736	6 X
K07J18E	16.2	0.15	K123E	196.356	255.131	120.366	16.436	0.02762	3.04857	4 X
K07J20D	16.4	0.15	K123E	332.774	59.058	179.943	8.717	0.04130	3.01944	4 X
K07J27B	15.7	0.15	K123E	211.481	149.831	211.683	10.438	0.09452	3.07966	5 X
K07K05U	16.5	0.15	K123E	283.592	216.224	100.373	3.671	0.22886	2.99314	5 X
K07L03O	16.1	0.15	K123E	238.812	150.048	211.283	8.574	0.32911	3.08386	3 X
K07L03T	16.5	0.15	K123E	229.849	158.222	191.748	5.362	0.15920	3.09961	5 X
K07L10Z	15.8	0.15	K123E	56.803	57.301	79.780	11.586	0.06307	3.07594	5 X
K07L13K	16.1	0.15	K123E	279.381	204.447	119.117	14.832	0.21549	2.94020	5 X
K07L14E	15.6	0.15	K123E	118.162	349.515	82.934	18.555	0.16616	3.14038	4 X
K07M01X	16.9	0.15	K123E	297.707	154.631	151.524	13.535	0.16114	2.88980	5 X
K07M06S	16.5	0.15	K123E	280.440	128.228	160.022	11.947	0.06033	3.02730	6 X
K07M08U	18.5	0.15	K123E	82.242	265.255	209.974	20.880	0.05736	1.85622	3 K
K07M14F	17.1	0.15	K123E	318.097	85.608	193.063	12.200	0.38228	3.01512	4 X
K07R84B	14.6	0.15	K123E	191.076	259.638	128.616	3.995	0.28015	3.97221	6 X
K07RN8Y	14.7	0.15	K123E	176.241	296.774	99.361	6.904	0.32951	3.94560	4 X
K07TC7O	15.2	0.15	K123E	213.598	209.697	165.018	3.154	0.22266	3.98393	4 X
K07U47C	14.3	0.15	K123E	203.776	307.811	64.245	9.977	0.18361	3.99815	6 X
K07VK2K	17.8	0.15	K123E	93.201	58.651	42.492	5.100	0.10972	2.23522	4 X
K07VK8Q	18.0	0.15	K123E	152.882	9.838	34.102	3.738	0.12026	2.19570	5 X
K07VU5K	5.8	0.15	K123E	56.212	144.971	172.269	20.246	0.36364	57.56836	9 X
K07X15Z	17.5	0.15	K123E	73.095	56.808	57.638	7.853	0.14659	2.23772	4 X
K07X48G	16.9	0.15	K123E	70.636	47.345	81.271	6.198	0.05743	2.23056	4 X
K07Y14Q	17.4	0.15	K123E	56.902	293.978	195.708	6.527	0.17195	2.37568	3 X
K07Y26N	17.2	0.15	K123E	49.891	66.604	76.631	7.502	0.08415	2.28226	5 X
K07Y31A	17.5	0.15	K123E	1.661	112.737	86.890	6.076	0.02467	2.17772	6 X
K07Y44B	17.1	0.15	K123E	143.727	278.064	132.033	6.775	0.10731	2.27762	4 X
K07Y44P	17.6	0.15	K123E	39.555	69.473	85.102	3.601	0.09308	2.31372	4 X
K08A15D	18.4	0.15	K123E	54.674	339.733	150.702	2.330	0.15669	2.33417	4 X
K08A22Z	17.4	0.15	K123E	92.819	357.019	101.047	4.240	0.14726	2.31265	5 X
K08A63Z	18.3	0.15	K123E	63.494	355.357	135.735	4.445	0.09875	2.30452	4 X
K08A67K	18.1	0.15	K123E	96.089	325.688	129.891	6.105	0.11341	2.29292	4 X
K08A71Y	17.3	0.15	K123E	121.352	275.585	154.720	6.548	0.17414	2.25308	4 X
K08A72K	17.7	0.15	K123E	128.003	346.211	85.134	6.532	0.06670	2.23728	4 X
K08A90Z	18.5	0.15	K123E	67.632	307.432	170.822	1.868	0.14527	2.30185	4 X
K08AA3A	18.7	0.15	K123E	66.782	37.984	84.119	2.750	0.14496	2.27969	5 X
K08AA9V	17.5	0.15	K123E	348.879	36.823	180.664	3.612	0.15661	2.32171	4 X
K08AB1N	18.1	0.15	K123E	68.760	357.830	120.240	2.069	0.13029	2.32932	7 X
K08B15N	18.2	0.15	K123E	110.762	260.170	188.382	1.090	0.09653	2.25682	5 X
K08B35X	17.6	0.15	K123E	87.999	18.243	85.117	2.336	0.13704	2.36382	4 X
K08B39H	17.9	0.15	K123E	41.001	59.783	103.159	5.419	0.10725	2.28375	6 X
K08B51M	17.3	0.15	K123E	141.795	6.996	46.717	5.469	0.21472	2.25208	6 X
K08C02E	17.2	0.15	K123E	44.610	304.953	201.061	9.380	0.15020	2.34450	6 X
K08C32E	18.0	0.15	K123E	26.404	48.553	120.609	3.176	0.11259	2.36511	3 X
K08C54C	18.0	0.15	K123E	83.376	315.609	163.812	7.850	0.12478	2.27454	4 X
K08C60C	18.6	0.15	K123E	89.756	288.535	177.898	2.384	0.11234	2.33502	3 X
K08C65E	17.4	0.15	K123E	46.225	334.553	163.471	4.730	0.18001	2.36709	4 X
K08C91R	18.2	0.15	K123E	357.376	52.440	151.432	5.858	0.11542	2.38026	3 X
K08CB0K	18.1	0.15	K123E	58.687	276.569	211.023	0.303	0.17400	2.34446	4 X
K08CC9W	17.8	0.15	K123E	23.120	16.945	163.503	4.459	0.08337	2.34239	5 X
K08CD3D	17.5	0.15	K123E	359.862	52.886	150.864	3.803	0.12721	2.37908	6 X
K08CF4F	17.9	0.15	K123E	102.507	347.297	104.478	4.452	0.12295	2.35078	3 X
K08CH8H	17.7	0.15	K123E	41.668	351.120	154.614	2.515	0.15445	2.34688	7 X
K08CI3G	17.4	0.15	K123E	62.383	2.712	145.845	6.796	0.06068	2.38229	4 X
K08CK9A	18.0	0.15	K123E	57.749	303.485	187.103	5.056	0.14724	2.31291	4 X
K08CL1S	17.5	0.15	K123E	33.826	38.270	123.616	12.858	0.11460	2.35045	3 X
K08CL5M	16.6	0.15	K123E	323.707	154.407	96.289	7.229	0.08316	2.34723	6 X
K08D02U	18.0	0.15	K123E	100.619	321.203	130.520	5.005	0.11886	2.29659	6 X
K08D16L	17.5	0.15	K123E	349.601	119.550	95.915	3.476	0.14867	2.44957	4 X
K08D19G	17.5	0.15	K123E	356.915	50.781	153.610	5.381	0.15102	2.36554	4 X
K08D27S	17.9	0.15	K123E	19.363	34.843	142.927	0.871	0.14355	2.33705	5 X
K08D28H	17.8	0.15	K123E	20.390	101.698	74.383	7.630	0.09670	2.33622	3 X
K08D29W	18.2	0.15	K123E	42.493	54.060	98.296	2.261	0.12092	2.39106	3 X
K08D30R	18.3	0.15	K123E	41.456	10.588	141.953	3.675	0.11533	2.32232	4 X
K08D33B	17.1	0.15	K123E	131.250	325.443	96.939	3.036	0.18987	2.33536	5 X
K08D36L	17.9	0.15	K123E	11.614	308.928	239.054	0.571	0.12752	2.42745	5 X



K08K29D	16.2	0.15	K123E	104.369	23.505	67.349	29.760	0.09014	2.58858	3 X
K08L08M	16.7	0.15	K123E	228.281	249.457	104.849	13.778	0.28550	2.66993	5 X
K08L13D	16.3	0.15	K123E	345.531	346.827	232.210	11.819	0.19821	2.59118	3 X
K08L15L	16.1	0.15	K123E	128.858	347.947	81.125	16.725	0.04574	2.66034	6 X
K08N05C	16.5	0.15	K123E	314.603	201.268	74.534	11.176	0.23435	2.70817	4 X
K08P04Y	17.7	0.15	K123E	314.045	79.819	210.664	5.454	0.36643	2.63620	3 X
K08P20T	16.4	0.15	K123E	288.274	190.818	125.757	14.364	0.18800	2.77560	3 X
K08P21J	16.5	0.15	K123E	262.641	266.098	80.299	7.702	0.34459	2.84696	4 X
K08Q17Y	15.7	0.15	K123E	205.094	159.134	205.483	9.664	0.07440	3.14273	7 X
K08Q19H	17.2	0.15	K123E	296.453	124.437	180.869	8.541	0.30032	2.73899	4 X
K08Q41Q	16.5	0.15	K123E	248.376	171.627	159.454	6.341	0.11841	3.07602	6 X
K08R30A	16.5	0.15	K123E	212.860	199.356	173.409	0.715	0.16764	3.16877	5 X
K08R36C	16.6	0.15	K123E	268.514	108.425	208.185	1.908	0.16772	3.04702	5 X
K08R47E	16.4	0.15	K123E	273.693	135.296	176.940	4.302	0.17233	3.07678	4 X
K08R74O	16.3	0.15	K123E	241.374	274.836	68.292	1.478	0.16638	3.05755	7 X
K08R95P	16.4	0.15	K123E	278.310	132.728	170.998	10.291	0.12805	2.96572	6 X
K08RA5T	15.2	0.15	K123E	217.766	250.266	111.370	6.518	0.14772	3.23329	4 X
K08S34T	16.5	0.15	K123E	289.720	98.726	197.627	4.739	0.12711	3.14272	4 X
K08S49Z	17.4	0.15	K123E	270.068	41.768	280.432	0.522	0.19488	2.99292	3 X
K08S56L	16.9	0.15	K123E	269.187	130.244	186.350	3.312	0.14477	3.15500	3 X
K08S94K	16.2	0.15	K123E	294.233	123.002	184.701	12.820	0.18455	2.86016	5 X
K08SH1A	16.2	0.15	K123E	163.337	208.553	200.526	10.766	0.02521	3.26303	4 X
K08SN8A	15.8	0.15	K123E	258.418	294.454	30.838	4.783	0.16467	3.14669	6 X
K08SO1P	16.0	0.15	K123E	251.776	251.367	87.183	3.634	0.16650	3.08493	5 X
K08SP3P	14.9	0.15	K123E	243.472	291.893	55.137	14.193	0.21518	3.16049	5 X
K08SP5R	15.7	0.15	K123E	308.909	149.983	131.553	4.992	0.11775	3.18767	6 X
K08SR4C	16.2	0.15	K123E	260.247	133.998	185.239	25.135	0.12353	3.16773	4 X
K08SS5X	15.6	0.15	K123E	257.044	211.194	117.931	11.703	0.22266	3.14160	5 X
K08T01W	15.9	0.15	K123E	279.945	190.920	115.186	6.909	0.15329	3.13890	4 X
K08T10W	16.2	0.15	K123E	269.412	131.294	184.170	7.389	0.16361	3.09092	3 X
K08T15M	15.6	0.15	K123E	320.112	64.847	198.128	10.959	0.13580	3.08923	5 X
K08T32F	16.0	0.15	K123E	260.309	134.857	194.520	5.489	0.16434	3.19508	5 X
K08T32W	15.3	0.15	K123E	273.578	276.593	37.948	10.490	0.20038	3.12661	5 X
K08T68Q	15.8	0.15	K123E	244.230	303.989	41.594	14.872	0.21112	3.21946	4 X
K08T71D	15.2	0.15	K123E	106.125	269.452	184.529	8.953	0.09253	3.95738	6 X
K08T76Q	16.9	0.15	K123E	246.683	184.988	160.367	0.709	0.17247	3.09847	4 X
K08T87X	15.6	0.15	K123E	295.143	243.109	50.077	10.562	0.20894	3.12399	6 X
K08U24S	16.6	0.15	K123E	213.612	204.203	163.410	1.733	0.08246	3.47337	4 X
K08UA6F	16.8	0.15	K123E	284.102	104.039	207.418	10.413	0.19775	2.98492	4 X
K08UR6B	15.9	0.15	K123E	287.104	75.577	219.838	9.638	0.09009	3.40350	3 X
K08UR8J	16.7	0.15	K123E	265.386	108.922	220.402	5.037	0.26413	3.10021	5 X
K08UX1F	15.9	0.15	K123E	337.650	33.747	222.049	16.947	0.18272	3.13686	6 X
K08W91A	15.5	0.15	K123E	133.531	215.744	206.365	10.039	0.26888	3.98478	5 X
K09F56W	17.0	0.15	K123E	100.035	44.999	56.717	21.871	0.08806	1.94459	4 X
K09M05J	17.3	0.15	K123E	301.836	153.235	122.475	4.613	0.10431	2.26621	6 X
K09O00C	20.2	0.15	K123E	299.858	138.018	178.566	4.573	0.44584	2.13625	3 X
K09P04Z	17.0	0.15	K123E	224.540	191.834	169.741	4.308	0.18208	2.42753	6 X
K09P18F	17.4	0.15	K123E	165.917	248.773	152.827	3.814	0.10055	2.68918	4 X
K09Q11F	17.4	0.15	K123E	249.645	213.212	138.970	4.216	0.18883	2.35607	5 X
K09Q12K	17.7	0.15	K123E	215.300	155.581	208.364	3.041	0.17025	2.51660	5 X
K09Q17A	17.4	0.15	K123E	255.550	151.969	177.896	2.334	0.21404	2.39617	5 X
K09Q20N	17.5	0.15	K123E	271.628	110.265	202.415	3.821	0.17658	2.39737	5 X
K09Q29P	16.6	0.15	K123E	188.823	182.125	204.598	8.375	0.31423	2.67332	5 X
K09Q31M	17.3	0.15	K123E	250.000	211.570	126.444	1.289	0.23464	2.41490	6 X
K09R01Q	17.4	0.15	K123E	257.541	142.655	194.397	1.674	0.22081	2.39550	6 X
K09R03T	17.8	0.15	K123E	246.397	286.587	54.771	7.221	0.22854	2.39464	4 X
K09R08C	18.3	0.15	K123E	291.763	85.010	208.523	2.056	0.20685	2.39977	3 X
K09R17E	16.5	0.15	K123E	195.166	198.640	172.274	5.331	0.03426	2.77315	5 X
K09R20Q	17.0	0.15	K123E	219.784	159.181	195.057	4.631	0.12892	2.71274	7 X
K09R26J	17.6	0.15	K123E	248.347	221.027	121.522	5.384	0.21538	2.39153	4 X
K09R33W	16.3	0.15	K123E	329.883	228.430	18.235	4.888	0.21067	2.60700	5 X
K09R49W	17.0	0.15	K123E	118.409	239.004	200.759	3.429	0.11445	3.03961	5 X
K09R55Q	17.0	0.15	K123E	218.153	320.810	35.685	7.018	0.13931	2.71102	5 X
K09R56K	16.2	0.15	K123E	128.989	327.537	111.558	3.119	0.03420	2.90093	6 X
K09R74W	17.5	0.15	K123E	267.938	254.826	63.597	3.105	0.20447	2.36864	5 X
K09S16T	15.5	0.15	K123E	53.273	308.830	187.265	11.836	0.07476	3.02667	6 X
K09S33U	16.8	0.15	K123E	325.595	238.979	6.167	13.203	0.21822	2.61330	3 X
K09S36S	16.9	0.15	K123E	182.765	188.035	203.056	8.600	0.17425	2.76899	4 X
K09S37C	17.2	0.15	K123E	262.134	112.310	204.593	11.223	0.11302	2.59552	4 X
K09S42E	16.5	0.15	K123E	236.886	308.081	35.120	9.375	0.17024	2.73897	3 X
K09S46M	16.4	0.15	K123E	295.142	67.649	212.013	16.003	0.07116	2.70342	5 X
K09S66G	17.5	0.15	K123E	225.397	236.306	111.416	3.255	0.07978	2.72993	5 X
K09S66R	17.0	0.15	K123E	203.283	207.590	160.609	3.908	0.10438	2.77019	6 X
K09S70U	16.6	0.15	K123E	247.247	265.188	61.858	6.271	0.04367	2.76664	4 X
K09S73X	17.7	0.15	K123E	288.804	164.423	143.646	4.920	0.14594	2.44658	6 X
K09S75C	17.6	0.15	K123E	248.609	226.749	105.128	3.995	0.14639	2.60615	5 X
K09SA1T	17.4	0.15	K123E	249.843	221.711	118.532	3.611	0.22745	2.37973	4 X

K09SA2N	16.1	0.15	K123E	194.765	335.609	45.797	12.960	0.28088	2.78322	4 X
K09SA2S	16.6	0.15	K123E	193.673	293.657	84.158	4.307	0.09970	2.75591	5 X
K09SD1F	16.9	0.15	K123E	208.327	308.780	55.102	4.798	0.07555	2.74978	4 X
K09SD2Y	17.3	0.15	K123E	242.743	278.406	54.391	4.343	0.10398	2.65130	4 X
K09SG4V	16.2	0.15	K123E	144.389	223.513	197.341	10.965	0.14605	3.03801	6 X
K09SG6O	16.2	0.15	K123E	109.632	255.067	198.431	8.859	0.07592	3.06069	5 X
K09SG8N	16.8	0.15	K123E	120.439	287.447	150.257	7.293	0.07617	2.76987	5 X
K09SK3B	16.7	0.15	K123E	216.417	303.709	55.302	4.556	0.17924	2.67027	6 X
K09SK3C	17.3	0.15	K123E	219.758	197.023	158.427	4.847	0.06001	2.71769	5 X
K09SK5F	16.2	0.15	K123E	333.305	39.933	209.907	12.959	0.13332	2.63058	5 X
K09SL2Z	16.9	0.15	K123E	189.556	197.548	190.225	5.086	0.25291	2.74910	4 X
K09SL3K	15.4	0.15	K123E	59.006	303.455	198.487	10.764	0.10026	3.06303	5 X
K09SN0B	16.8	0.15	K123E	187.602	191.110	190.322	13.021	0.14647	2.66210	4 X
K09SN1F	16.4	0.15	K123E	153.248	219.976	193.189	8.405	0.17964	2.81378	6 X
K09SN3Q	16.5	0.15	K123E	158.791	204.773	200.797	11.405	0.18330	2.73340	4 X
K09SN7P	15.9	0.15	K123E	132.743	333.589	87.690	8.950	0.19238	2.99580	6 X
K09SP3A	15.8	0.15	K123E	184.398	166.449	217.771	5.220	0.23134	3.03642	5 X
K09SP3Y	15.5	0.15	K123E	39.095	103.949	55.499	11.696	0.11733	3.09557	5 X
K09SQ9O	17.3	0.15	K123E	210.337	176.573	189.028	9.751	0.09529	2.66199	3 X
K09SR7J	17.8	0.15	K123E	318.673	120.892	141.567	3.005	0.20344	2.43348	5 X
K09SR8C	17.6	0.15	K123E	212.119	207.576	158.588	4.418	0.12266	2.63010	4 X
K09SR8E	18.5	0.15	K123E	268.460	238.872	81.990	2.504	0.19666	2.42902	7 X
K09SR8R	17.8	0.15	K123E	205.859	207.898	167.428	6.182	0.17324	2.62635	4 X
K09SS0J	17.4	0.15	K123E	206.795	232.476	131.912	3.998	0.13411	2.71982	3 X
K09SS2J	16.4	0.15	K123E	138.121	295.873	136.285	5.294	0.04945	2.78692	7 X
K09SS2P	17.4	0.15	K123E	256.396	260.731	57.576	5.631	0.10524	2.61400	5 X
K09SS2U	16.8	0.15	K123E	209.739	315.012	46.207	7.083	0.10521	2.70841	5 X
K09SS3Q	16.7	0.15	K123E	257.776	155.000	158.695	6.831	0.03183	2.71486	4 X
K09SS4F	17.0	0.15	K123E	198.230	318.628	56.415	6.800	0.07250	2.72624	3 X
K09SS8Y	16.7	0.15	K123E	105.599	22.015	64.447	4.182	0.14331	3.18643	3 X
K09ST3W	17.4	0.15	K123E	203.582	304.480	68.506	6.205	0.09078	2.71325	5 X
K09SU9G	17.0	0.15	K123E	240.374	165.357	179.519	6.640	0.18026	2.42977	6 X
K09SX8J	16.7	0.15	K123E	167.428	344.727	58.122	6.476	0.17282	2.83614	3 X
K09SY3F	17.3	0.15	K123E	215.637	199.878	157.905	6.357	0.04606	2.71781	4 X
K09SY4P	17.2	0.15	K123E	212.821	218.019	144.034	2.390	0.09003	2.70792	6 X
K09SY4S	17.3	0.15	K123E	257.468	260.740	57.292	3.524	0.06374	2.67626	5 X
K09SY6F	17.8	0.15	K123E	207.707	261.179	107.400	3.020	0.08989	2.63337	6 X
K09SY9B	17.3	0.15	K123E	248.849	296.180	31.180	2.071	0.06504	2.75288	6 X
K09SZ7H	16.3	0.15	K123E	110.273	239.483	210.700	4.081	0.10198	3.14159	4 X
K09Sa1G	16.3	0.15	K123E	336.427	202.120	31.887	12.195	0.10927	2.68013	6 X
K09Sa2D	16.5	0.15	K123E	68.245	47.762	83.139	2.540	0.12066	3.15894	5 X
K09T01W	17.7	0.15	K123E	257.863	180.520	158.005	5.320	0.26314	2.40239	3 X
K09T04A	17.2	0.15	K123E	236.578	174.904	186.956	13.239	0.17993	2.55198	5 X
K09T13W	17.3	0.15	K123E	213.393	155.671	212.850	12.307	0.22495	2.61423	3 X
K09T15Q	17.4	0.15	K123E	221.730	271.472	91.550	5.167	0.22707	2.60151	3 X
K09T17H	16.6	0.15	K123E	234.127	228.634	127.052	4.439	0.23764	2.58170	5 X
K09T20A	15.8	0.15	K123E	167.569	187.168	208.701	9.857	0.11054	3.00618	5 X
K09T20M	15.9	0.15	K123E	205.645	324.579	38.718	13.998	0.02800	2.76931	3 X
K09T21R	16.0	0.15	K123E	211.932	325.568	47.042	14.598	0.22681	2.69086	5 X
K09T26F	17.3	0.15	K123E	280.334	267.410	50.566	5.909	0.24835	2.40065	5 X
K09T26K	16.5	0.15	K123E	230.112	312.876	35.421	15.513	0.15327	2.61031	3 X
K09T31Z	16.6	0.15	K123E	185.321	229.863	157.130	6.434	0.14381	2.71268	6 X
K09T42H	16.6	0.15	K123E	186.924	167.128	215.884	9.371	0.04335	2.89254	4 X
K09T46H	16.8	0.15	K123E	103.201	41.902	48.724	1.399	0.14028	3.15865	3 X
K09U01A	16.9	0.15	K123E	320.858	58.542	212.377	3.956	0.31111	2.33066	4 X
K09U04G	17.1	0.15	K123E	218.426	140.696	219.367	3.637	0.11394	2.73403	5 X
K09U10P	16.3	0.15	K123E	258.411	274.828	37.308	13.987	0.12698	2.66838	5 X
K09U11H	17.4	0.15	K123E	178.145	258.651	134.933	5.042	0.08363	2.75968	5 X
K09U24P	16.2	0.15	K123E	87.032	262.609	218.492	16.240	0.03465	3.06925	5 X
K09U24Y	16.2	0.15	K123E	263.692	274.133	39.992	13.900	0.11378	2.74707	4 X
K09U25U	16.3	0.15	K123E	322.048	62.318	208.598	28.154	0.11360	2.55221	4 X
K09U27C	16.8	0.15	K123E	221.769	155.158	206.108	8.574	0.16659	2.72309	4 X
K09U29M	16.9	0.15	K123E	288.868	249.572	46.317	2.916	0.16494	2.63827	6 X
K09U30N	16.1	0.15	K123E	136.811	20.915	43.743	15.355	0.24511	3.21679	3 X
K09U30Y	17.1	0.15	K123E	185.008	184.887	201.576	2.665	0.11105	2.92755	6 X
K09U36H	16.5	0.15	K123E	222.531	284.702	70.363	2.898	0.08510	2.77771	5 X
K09U36M	16.6	0.15	K123E	281.302	97.946	200.299	4.613	0.09931	2.71619	5 X
K09U39L	16.2	0.15	K123E	276.863	248.158	59.189	10.754	0.10008	2.77694	3 X
K09U39X	15.6	0.15	K123E	247.385	263.831	52.596	10.578	0.11140	3.07781	6 X
K09U46N	16.6	0.15	K123E	260.621	281.713	46.260	15.101	0.17904	2.63998	4 X
K09U57R	15.9	0.15	K123E	82.731	79.373	36.781	9.604	0.06072	3.20954	4 X
K09U69N	17.3	0.15	K123E	238.418	168.853	179.679	4.697	0.16625	2.56897	6 X
K09U73S	16.8	0.15	K123E	194.749	329.837	43.418	2.645	0.07949	2.87091	6 X
K09U76L	17.0	0.15	K123E	276.335	81.792	220.633	4.103	0.08733	2.67343	7 X
K09U81R	16.1	0.15	K123E	79.532	83.367	35.506	16.191	0.07045	3.17672	3 X
K09U88N	16.5	0.15	K123E	244.051	220.551	125.966	3.152	0.22813	2.60360	6 X
K09U91G	16.2	0.15	K123E	138.179	330.949	90.009	6.048	0.11385	3.09218	5 X

K09U91M	16.8	0.15	K123E	224.617	196.125	163.042	5.381	0.16329	2.68579	5 X
K09U94Z	16.5	0.15	K123E	131.783	280.961	154.669	2.306	0.06208	2.92733	7 X
K09U96S	16.8	0.15	K123E	147.080	252.132	162.365	2.550	0.09380	3.05648	7 X
K09UA0R	15.1	0.15	K123E	66.096	77.064	60.068	13.904	0.02712	3.14997	6 X
K09UA2D	15.2	0.15	K123E	110.786	25.186	63.975	10.561	0.05520	3.11637	4 X
K09UA6V	15.9	0.15	K123E	19.859	131.477	59.429	11.752	0.01406	3.05478	5 X
K09UB0O	16.0	0.15	K123E	164.506	353.843	50.783	6.029	0.22359	3.05699	5 X
K09UB5W	17.4	0.15	K123E	243.380	274.206	60.037	2.722	0.07395	2.63640	4 X
K09UB8V	17.2	0.15	K123E	238.288	130.392	202.960	5.787	0.04731	2.71727	5 X
K09UC4C	16.1	0.15	K123E	157.477	241.218	172.678	8.173	0.05860	2.93760	5 X
K09UD3R	17.6	0.15	K123E	261.649	253.931	54.906	5.210	0.05917	2.79075	3 X
K09UE6T	16.6	0.15	K123E	253.387	269.469	49.740	9.814	0.06860	2.98113	4 X
K09V03D	16.0	0.15	K123E	257.358	211.940	111.809	14.416	0.16612	2.71293	5 X
K09V03O	15.0	0.15	K123E	211.517	263.029	93.597	11.139	0.10941	2.96247	6 X
K09V09W	15.6	0.15	K123E	159.381	326.925	81.731	6.020	0.12477	3.13017	5 X
K09V27U	15.2	0.15	K123E	169.329	355.559	44.746	16.571	0.07323	3.06224	4 X
K09V29N	15.5	0.15	K123E	225.746	95.717	239.214	14.540	0.02617	3.15928	5 X
K09V29O	15.6	0.15	K123E	156.482	4.043	46.153	10.091	0.09348	3.11336	5 X
K09V29P	16.5	0.15	K123E	178.531	171.462	215.836	8.971	0.13277	2.89884	3 X
K09V31Z	17.1	0.15	K123E	177.881	219.443	172.042	2.236	0.09117	2.92512	3 X
K09V39M	16.0	0.15	K123E	276.866	265.901	42.618	15.158	0.19116	2.65979	3 X
K09V42H	16.6	0.15	K123E	206.715	308.186	60.773	2.367	0.02672	2.96986	6 X
K09V42S	16.0	0.15	K123E	171.758	2.377	30.382	9.649	0.13895	3.06707	4 X
K09V48F	16.6	0.15	K123E	149.387	227.123	186.532	4.616	0.13724	3.21782	4 X
K09V49X	16.7	0.15	K123E	243.373	270.544	64.412	7.058	0.13348	2.77862	6 X
K09V57Y	16.6	0.15	K123E	234.829	267.206	80.684	8.328	0.17498	2.73359	6 X
K09V65G	15.5	0.15	K123E	224.461	299.911	44.187	13.718	0.02454	3.13649	3 X
K09V83W	15.4	0.15	K123E	83.083	80.322	46.018	10.265	0.02620	3.20621	4 X
K09V85C	16.0	0.15	K123E	348.900	150.194	71.308	10.039	0.02555	3.16201	4 X
K09V91H	16.4	0.15	K123E	271.554	261.402	66.322	14.472	0.19999	2.58280	3 X
K09V95R	16.6	0.15	K123E	198.211	201.817	177.732	3.792	0.18268	3.00894	9 X
K09V95Z	16.0	0.15	K123E	102.717	42.025	60.159	16.792	0.04949	3.20331	4 X
K09V98L	16.0	0.15	K123E	134.070	244.010	189.659	9.673	0.04756	3.12311	6 X
K09VA5Y	15.7	0.15	K123E	168.048	273.178	121.640	10.369	0.12911	3.07694	4 X
K09W02R	17.2	0.15	K123E	229.071	260.208	90.528	3.287	0.09831	2.73123	5 X
K09W02Z	17.6	0.15	K123E	208.307	208.390	153.625	2.483	0.07964	2.86125	3 X
K09W04Y	16.6	0.15	K123E	283.087	269.627	37.041	7.434	0.18898	2.63852	5 X
K09W11U	17.3	0.15	K123E	194.250	216.563	160.943	2.356	0.07646	2.85981	4 X
K09W18Q	16.8	0.15	K123E	242.016	200.280	138.853	2.839	0.07867	2.83070	6 X
K09W24Z	16.0	0.15	K123E	163.009	294.871	111.391	5.814	0.16990	3.12364	5 X
K09W35X	17.2	0.15	K123E	179.144	196.753	190.071	1.700	0.07377	2.86330	5 X
K09W66C	16.8	0.15	K123E	155.836	335.338	81.387	2.715	0.05657	3.00254	6 X
K09W70V	16.8	0.15	K123E	172.409	195.127	204.671	3.183	0.14389	3.04503	6 X
K09W73Y	16.1	0.15	K123E	212.470	141.177	220.240	5.540	0.05347	3.08211	6 X
K09W74T	15.3	0.15	K123E	321.086	171.783	74.251	17.746	0.10343	3.21672	5 X
K09W75V	16.1	0.15	K123E	220.036	270.982	91.092	7.124	0.10201	2.91523	8 X
K09W94D	16.2	0.15	K123E	89.429	19.286	90.635	2.581	0.13094	3.13020	4 X
K09W95T	16.7	0.15	K123E	259.564	127.879	192.402	1.661	0.06716	2.88781	7 X
K09WA4L	15.6	0.15	K123E	223.021	254.191	101.340	17.674	0.11462	2.91081	4 X
K09WA7U	16.4	0.15	K123E	10.814	352.537	203.127	4.917	0.08517	3.12336	5 X
K09WG9C	15.8	0.15	K123E	92.468	198.952	150.914	3.918	0.23842	3.92270	5 X
K09WJ0C	15.6	0.15	K123E	299.226	290.683	79.245	4.844	0.10765	3.22570	5 X
K09WJ3V	16.5	0.15	K123E	199.253	327.408	49.079	4.029	0.11340	2.92759	4 X
K09WJ8S	15.7	0.15	K123E	214.845	253.496	102.758	11.532	0.12834	3.02973	6 X
K09WL7Z	15.3	0.15	K123E	155.438	322.584	106.777	10.952	0.05596	3.04997	4 X
K09WN2B	15.5	0.15	K123E	320.352	171.788	75.602	10.353	0.09644	3.06334	5 X
K09WN9K	17.0	0.15	K123E	187.967	191.760	198.269	6.409	0.14740	2.91619	5 X
K09WO8H	17.0	0.15	K123E	259.205	210.782	117.784	3.811	0.19410	2.63421	6 X
K10A95A	16.5	0.15	K123E	139.998	344.133	70.893	2.939	0.17793	3.04569	6 X
K10AB5X	15.9	0.15	K123E	55.004	317.981	182.960	20.846	0.10517	3.19780	4 X
K10E03V	15.6	0.15	K123E	230.162	258.673	82.054	9.939	0.10880	3.18359	5 X
K10E08Y	15.6	0.15	K123E	97.432	48.333	42.203	1.400	0.18448	3.93527	5 X
K10L14J	17.8	0.15	K123E	53.166	295.199	177.491	12.027	0.34168	1.62617	2 X
K10L14M	21.5	0.15	K123E	117.502	187.895	176.685	25.923	0.37935	1.11032	3 X
K10LA9J	10.2	0.15	K123E	14.473	137.966	41.759	24.834	0.32373	13.50730	4 X
K10P35S	17.3	0.15	K123E	81.580	279.734	177.221	4.722	0.22751	2.61874	5 X
K10R52Q	18.0	0.15	K123E	157.427	201.833	198.913	20.847	0.10188	1.92526	4 X
K10R74V	18.2	0.15	K123E	217.660	170.922	191.957	26.172	0.14607	1.85263	3 X
K10U28W	17.6	0.15	K123E	91.256	270.204	178.340	2.083	0.23789	2.62573	5 X
K10U51Z	17.3	0.15	K123E	111.571	278.819	157.308	2.404	0.17746	2.36646	7 X
K10U73E	17.4	0.15	K123E	133.260	341.694	77.236	5.875	0.15667	2.28799	4 X
K10V13X	17.2	0.15	K123E	28.912	114.610	52.119	5.512	0.06455	2.23359	5 X
K10V17S	17.0	0.15	K123E	128.298	305.067	110.951	11.687	0.24113	2.40069	5 X
K10V25W	17.3	0.15	K123E	59.721	63.720	62.557	3.090	0.15085	2.65137	5 X
K10V27S	17.3	0.15	K123E	139.873	357.280	64.748	2.801	0.07163	2.23000	6 X
K10V36V	16.9	0.15	K123E	81.172	36.029	57.728	8.462	0.25655	2.68258	4 X
K10V36X	17.4	0.15	K123E	113.328	242.983	198.962	5.710	0.17619	2.30609	4 X



K11B82O	16.6	0.15	K123E	67.651	60.894	83.678	6.127	0.10453	2.80170	6	X
K11B83T	16.4	0.15	K123E	301.690	119.134	173.581	11.529	0.05504	2.72622	7	X
K11B85M	15.5	0.15	K123E	57.010	357.910	153.940	13.895	0.16957	3.18610	5	X
K11B97Z	17.3	0.15	K123E	188.536	314.337	70.436	4.491	0.11222	2.57923	6	X
K11BB6B	16.4	0.15	K123E	143.284	324.336	100.236	6.886	0.03604	2.77055	4	X
K11BB6N	17.1	0.15	K123E	281.293	185.459	125.069	8.900	0.11132	2.41613	5	X
K11BB9Y	16.8	0.15	K123E	29.388	319.797	213.564	0.465	0.10894	3.11895	6	X
K11BC2B	16.5	0.15	K123E	10.056	75.238	119.944	2.209	0.02256	3.24121	5	X
K11BC2V	16.8	0.15	K123E	202.772	260.868	120.840	5.203	0.07638	2.60563	6	X
K11BC3B	16.2	0.15	K123E	173.396	261.493	127.193	11.891	0.08863	3.09792	7	X
K11BC3M	16.6	0.15	K123E	260.756	235.430	92.219	5.298	0.14980	2.62546	6	X
K11C01Y	15.9	0.15	K123E	122.039	311.555	143.106	13.713	0.14153	2.79410	4	X
K11C06Q	15.9	0.15	K123E	277.070	262.234	33.164	9.125	0.06953	3.07196	3	X
K11C11L	16.5	0.15	K123E	110.752	305.267	151.424	2.804	0.05077	3.04880	6	X
K11C15M	16.2	0.15	K123E	245.962	252.505	77.349	4.515	0.08478	2.95195	6	X
K11C19M	17.1	0.15	K123E	184.280	241.860	144.991	5.121	0.09482	2.51163	5	X
K11C20S	16.2	0.15	K123E	347.688	111.384	115.156	2.522	0.03689	3.15390	6	X
K11C25W	15.8	0.15	K123E	144.388	311.645	100.853	11.873	0.05136	3.16403	5	X
K11C27N	16.8	0.15	K123E	151.852	328.180	102.991	5.705	0.05119	2.76863	6	X
K11C33D	16.7	0.15	K123E	103.689	216.310	231.840	3.746	0.18846	3.07385	6	X
K11C38X	17.4	0.15	K123E	207.527	297.523	67.725	3.454	0.08739	2.76822	4	X
K11C56M	16.5	0.15	K123E	298.780	158.808	143.333	14.107	0.16552	2.65159	3	X
K11C60U	16.5	0.15	K123E	200.544	208.140	160.398	2.753	0.03049	3.24687	7	X
K11C71O	15.2	0.15	K123E	69.337	24.780	122.902	10.423	0.08307	3.11994	4	X
K11C90L	16.1	0.15	K123E	315.922	118.789	160.668	9.586	0.13212	3.00497	5	X
K11D02T	16.1	0.15	K123E	327.202	113.147	150.166	9.722	0.06302	3.06417	3	X
K11D25H	16.0	0.15	K123E	320.293	107.630	147.307	6.563	0.12556	3.13682	6	X
K11D42P	15.3	0.15	K123E	138.486	314.162	138.029	14.446	0.03952	3.23595	6	X
K11D43J	16.5	0.15	K123E	166.193	218.145	187.293	4.706	0.16262	3.09374	4	X
K11E08N	17.1	0.15	K123E	173.786	283.527	110.495	3.683	0.18886	2.71573	4	X
K11E20N	16.8	0.15	K123E	191.287	279.613	103.290	5.048	0.15492	2.68085	6	X
K11E59N	15.6	0.15	K123E	219.713	251.165	119.434	11.398	0.02741	3.21813	6	X
K11E76B	15.4	0.15	K123E	112.483	324.830	146.246	13.649	0.10710	3.14876	6	X
K11K36P	9.3	0.15	K123E	353.682	180.547	173.499	18.982	0.87340	38.56851	2	X
K11O17R	13.1	0.15	K123E	0.035	14.088	271.591	110.337	0.99016	315.25528	3	X
K11Q48D	18.2	0.15	K123E	16.522	106.618	358.934	19.066	0.49207	1.54525	2	X
K11UJ2Z	16.9	0.15	K123E	31.282	261.568	222.836	12.591	0.42894	2.57776	4	X
K11Y15V	17.2	0.15	K123E	3.051	162.450	1.913	5.967	0.54521	2.84367	3	X
K12D27B	16.8	0.15	K123E	338.115	235.495	324.811	12.070	0.26191	3.04348	3	X
K12F23C	16.2	0.15	K123E	345.433	151.737	73.850	25.174	0.24119	2.24368	3	X
K12F44H	15.4	0.15	K123E	314.957	234.608	29.209	20.615	0.13318	3.06087	4	X
K12F72E	16.4	0.15	K123E	17.158	328.887	212.758	12.931	0.18380	2.68713	4	X
K12G12N	10.5	0.15	K123E	14.130	170.543	351.161	12.694	0.37116	14.99558	6	X
K12G12O	16.3	0.15	K123E	346.474	43.285	174.515	13.921	0.19813	2.63347	2	X
K12G12P	17.9	0.15	K123E	329.619	118.999	121.552	1.631	0.18944	2.31438	6	X
K12G17C	16.8	0.15	K123E	280.953	175.402	129.707	9.451	0.20126	2.36540	4	X
K12G20P	16.7	0.15	K123E	342.382	54.897	168.095	12.921	0.15055	2.69880	2	X
T3S317I	18.0	0.15	K123E	248.081	142.538	200.049	4.049	0.21736	2.33976	5	X

## New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K11Y75U	17.0	0.15	K123E	357.708	243.283	295.327	16.749	0.76628	7.48408	121	X
K12A11A	20.1	0.15	K123E	0.229	145.673	21.313	6.406	0.48404	1.97687	105	X
K12B85W	17.8	0.15	K123E	352.434	329.750	235.920	4.460	0.35700	2.32788	91	X
K12C21A	19.4	0.15	K123E	359.200	35.555	128.156	28.860	0.65872	2.65393	75	X
K12D14A	24.4	0.15	K123E	103.363	271.077	147.294	10.340	0.10824	1.00171	62	X
K12E14W	22.0	0.15	K123E	343.733	218.300	15.821	5.468	0.49648	2.02696	41	X
K12F01R	19.0	0.15	K123E	26.522	86.130	355.572	13.308	0.71223	2.17692	42	X
K12F62O	20.2	0.15	K123E	25.447	212.725	258.562	3.981	0.51592	2.01454	30	X
K12G00K	22.4	0.15	K123E	325.931	146.375	114.065	3.346	0.46895	1.79804	26	X
K12G11X	21.1	0.15	K123E	331.008	187.339	75.027	9.338	0.44670	2.11345	12	X
K12G17V	21.2	0.15	K123E	279.319	311.574	6.839	10.979	0.45770	1.64008	13	X
K12H00L	22.6	0.15	K123E	335.545	40.345	210.450	9.304	0.52116	2.09128	12	X
K12H00M	24.1	0.15	K123E	286.907	233.077	39.208	6.968	0.19535	1.16436	12	X
K12H01J	17.8	0.15	K123E	299.601	291.246	44.799	31.068	0.60330	1.98702	12	X
K12H02O	20.4	0.15	K123E	70.236	226.164	211.710	26.383	0.39498	1.23491	8	X
K12H08G	19.8	0.15	K123E	7.484	256.560	214.813	25.589	0.72765	2.44736	7	X
K12H08M	23.9	0.15	K123E	346.808	179.064	62.252	3.166	0.64356	2.89318	6	X
K12H13N	22.9	0.15	K123E	300.658	96.545	184.199	4.082	0.30906	1.41099	6	X
K12H13P	24.2	0.15	K123E	226.929	288.036	37.136	23.031	0.17723	0.98166	5	X
K12H20C	21.5	0.15	K123E	326.708	262.794	37.985	17.913	0.62748	2.22263	3	X

## New one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K12D40S	17.0	0.15	K123E	9.507	192.955	316.473	9.955	0.14892	2.71489	88	X
K12F44L	17.1	0.15	K1243	340.023	188.977	54.049	12.990	0.22968	2.61486	35	X
K12F62B	16.7	0.15	K1243	346.381	99.595	129.225	3.422	0.13007	2.70835	29	X



K12F62E	15.6	0.15	K1243	48.871	326.522	194.540	9.273	0.03926	2.97451	29	X
K12F69T	18.0	0.15	K1243	345.983	34.786	193.387	23.907	0.20752	2.32462	33	W
K12F70W	17.9	0.15	K1243	340.914	31.650	192.500	4.976	0.15636	2.32238	27	X
K12G00L	16.8	0.15	K1243	8.110	60.717	132.695	31.177	0.31296	2.60846	24	W
K12G01J	16.7	0.15	K1243	307.162	163.816	109.807	10.210	0.15491	2.65855	17	W
K12G01L	16.9	0.15	K1243	334.337	175.644	68.121	13.378	0.22203	2.60964	17	W
K12G01T	18.1	0.15	K1243	294.155	190.645	69.527	24.485	0.05950	1.91842	15	X
K12G03N	18.0	0.15	K1243	319.073	174.018	71.660	1.794	0.06379	2.23278	16	X
K12G06V	18.6	0.15	K1243	82.533	75.178	22.105	19.903	0.13153	1.97672	14	X
K12G11T	19.5	0.15	K1243	105.915	236.430	209.698	21.081	0.10534	1.84263	11	S
K12G13S	16.4	0.15	K1243	10.590	49.279	158.472	14.014	0.06315	2.81311	14	X
K12G16F	16.6	0.15	K1243	18.386	171.878	4.127	11.631	0.14078	2.53054	13	W
K12G17L	17.9	0.15	K1243	307.802	118.685	166.135	13.169	0.15955	2.42111	12	X
K12G17O	15.2	0.15	K1243	279.007	187.850	121.377	14.221	0.06159	3.13941	12	X
K12G20O	16.4	0.15	K1243	314.807	176.137	78.377	11.645	0.06411	2.86921	12	W
K12G20Q	17.5	0.15	K1243	327.959	149.619	99.299	9.055	0.17083	2.75386	12	W
K12G20U	17.2	0.15	K1243	299.741	236.444	59.267	23.126	0.22814	2.36448	12	X
K12G21Q	17.3	0.15	K1243	284.639	233.681	45.943	7.657	0.04735	2.18398	14	X
K12G22L	17.9	0.15	K1243	26.245	38.151	131.322	8.939	0.12542	2.31004	12	W
K12H00H	18.1	0.15	K1243	129.576	25.156	49.274	23.114	0.06414	1.88802	11	X
K12H00P	18.1	0.15	K1243	70.083	74.201	48.943	20.960	0.07318	1.86730	11	W
K12H00S	19.3	0.15	K1243	348.530	176.388	57.055	22.008	0.45716	2.57963	10	S
K12H01F	18.2	0.15	K1243	307.852	160.745	128.991	7.484	0.17708	2.22856	10	X
K12H02D	15.5	0.15	K124N	359.923	199.384	21.832	147.014	0.98091	134.18500	9	W
K12H02M	19.5	0.15	K124N	140.610	31.535	41.282	19.985	0.07514	1.87860	7	X
K12H03O	16.2	0.15	K1243	305.646	162.152	117.522	3.618	0.09601	3.07947	11	X
K12H03S	17.4	0.15	K1243	324.282	80.120	193.983	8.314	0.27370	2.71120	11	X
K12H06S	18.5	0.15	K124N	317.578	93.662	173.586	2.204	0.19565	2.23424	9	X
K12H07C	18.2	0.15	K124N	348.742	189.907	34.404	12.851	0.23535	2.59275	9	X
K12H07P	15.9	0.15	K124N	15.282	147.265	50.910	12.069	0.11022	3.10125	8	X
K12H08S	16.0	0.15	K1243	296.998	182.724	92.149	11.933	0.05513	3.10763	11	X
K12H08Y	15.9	0.15	K124N	353.572	113.008	106.575	12.650	0.06614	3.08536	9	X
K12H08Z	16.2	0.15	K124N	3.393	45.541	160.194	11.691	0.05551	2.96446	9	W
K12H09D	16.1	0.15	K124N	301.845	179.715	93.928	11.482	0.05471	3.15599	9	X
K12H09F	16.2	0.15	K124N	324.792	116.888	139.248	9.361	0.11505	2.74624	9	X
K12H09W	17.8	0.15	K124N	315.306	188.446	106.608	7.260	0.24326	2.32630	9	X
K12H11E	18.5	0.15	K124N	19.275	127.095	56.710	22.805	0.24630	2.29181	7	X
K12H11P	16.9	0.15	K124N	336.142	197.579	44.600	34.622	0.17616	2.62010	7	W
K12H12Y	17.9	0.15	K124N	32.573	97.119	81.864	13.301	0.19376	2.60140	6	X
K12H12Z	15.5	0.15	K124N	46.135	76.564	104.786	11.800	0.02625	3.07772	6	X
K12H13A	16.2	0.15	K124N	50.788	59.047	105.344	11.673	0.14976	3.26127	6	X
K12H14D	17.8	0.15	K124N	4.070	167.789	41.370	13.353	0.10619	2.61633	8	X
K12H14J	17.9	0.15	K124N	339.753	135.528	123.232	11.102	0.20538	2.44143	8	X
K12H14N	16.7	0.15	K124N	297.507	137.914	152.559	12.406	0.17962	2.55261	7	W
K12H16C	15.7	0.15	K124N	71.638	341.618	160.532	15.263	0.08898	2.86336	8	X
K12H16H	18.0	0.15	K124N	347.620	46.378	183.677	22.748	0.01743	1.91623	7	W
K12H18G	17.1	0.15	K124N	333.139	166.822	98.781	10.157	0.16023	2.68554	6	X
K12H20K	18.5	0.15	K124N	61.970	75.167	69.271	21.751	0.07676	1.89243	2	S
K12H20L	19.6	0.15	K124N	168.333	5.976	35.100	22.341	0.02357	1.82912	9	W
K12H20M	20.5	0.15	K124N	12.043	301.163	240.209	11.230	0.35639	2.48939	3	EX
K12H20N	18.8	0.15	K124N	244.640	91.391	238.693	20.309	0.05134	1.85638	3	EX
K12H20O	18.0	0.15	K124N	13.740	326.397	226.863	26.353	0.08130	1.98672	2	EX
K12H20P	18.7	0.15	K124N	128.331	62.273	11.377	21.434	0.11765	1.85069	2	EX
K12H20Q	18.5	0.15	K124N	120.467	204.204	231.760	20.137	0.16187	1.93226	3	EX
K12H20R	19.7	0.15	K124N	354.467	72.758	141.445	25.066	0.04920	1.45270	3	EX
K12H20S	18.3	0.15	K124N	103.813	263.487	201.242	22.582	0.12976	1.95805	1	EW
K12H20T	17.7	0.15	K124N	73.046	306.912	198.318	23.937	0.09873	1.94074	1	EX
K12H20U	19.8	0.15	K124N	63.165	312.508	188.353	24.159	0.11940	1.82626	2	ES
K12H20V	18.6	0.15	K124N	283.116	120.234	178.601	23.256	0.04948	1.86557	2	EX
K12H20W	18.0	0.15	K124N	3.191	80.401	127.556	28.080	0.33095	2.43895	2	EX
K12H20X	18.4	0.15	K124N	291.406	36.603	249.511	16.916	0.12425	1.86451	1	EX
K12H20Y	17.3	0.15	K124N	325.296	52.786	230.526	22.156	0.45267	2.90325	1	EX
K12H20Z	19.7	0.15	K124N	326.097	54.424	208.521	28.165	0.29078	2.24063	1	EX
K12H21A	18.9	0.15	K124N	181.522	354.592	32.656	24.826	0.10087	1.84221	9	EX
K12H21B	19.4	0.15	K124N	291.588	116.414	188.011	16.740	0.19732	1.83863	1	EX
K12H21C	17.7	0.15	K124N	157.140	346.597	67.446	25.016	0.11201	1.97939	1	ES
K12H21D	18.6	0.15	K124N	73.320	308.215	192.317	23.019	0.05463	1.90859	7	EX

New observations:

J98H03E	C2012	04	27.99109	15	35	07.03	-09	21	19.2	17.8	VuEH076C73
J98H03E	C2012	04	27.99190	15	35	06.70	-09	21	18.1	17.7	VuEH076C73
J98H03E	C2012	04	27.99271	15	35	06.41	-09	21	16.4	17.6	VuEH076C73
J98H03E	C2012	04	27.99352	15	35	06.16	-09	21	14.8	17.7	VuEH076C73
J98H03E	C2012	04	27.99432	15	35	05.86	-09	21	13.4	17.5	VuEH076C73
J98H03E	C2012	04	27.99514	15	35	05.57	-09	21	12.0	17.7	VuEH076C73
J98H03E	C2012	04	27.99594	15	35	05.33	-09	21	10.1	17.6	VuEH076C73
J98H03E	C2012	04	27.99675	15	35	05.06	-09	21	09.0	17.5	VuEH076C73

J98H03E	C2012	04	27.99756	15	35	04.78	-09	21	07.4	17.6	VuEH076C73
J98H03E	C2012	04	27.99836	15	35	04.49	-09	21	05.6	17.8	VuEH076C73
J98H03E	C2012	04	27.99998	15	35	03.71	-09	21	02.5	17.5	VuEH076C73
J98H03E	C2012	04	28.00079	15	35	03.91	-09	21	01.2	17.8	VuEH076C73
J98H03E	C2012	04	28.00160	15	35	03.43	-09	20	59.0	17.6	VuEH076C73
J98H03E	C2012	04	28.00241	15	35	03.13	-09	20	58.7	17.6	VuEH076C73
J98H03E	C2012	04	28.00321	15	35	02.81	-09	20	56.2	17.6	VuEH076C73
J98H03E	C2012	04	28.00402	15	35	02.54	-09	20	55.7	17.5	VuEH076C73
K03WG6H	KC2012	04	27.82093	11	50	14.24	+07	30	07.3	16.9	VuEH076C73
K03WG6H	KC2012	04	27.82139	11	50	14.82	+07	30	02.9	16.9	VuEH076C73
K03WG6H	KC2012	04	27.82185	11	50	15.41	+07	29	58.5	16.9	VuEH076C73
K03WG6H	KC2012	04	27.82231	11	50	16.02	+07	29	54.0	17.0	VuEH076C73
K03WG6H	KC2012	04	27.82276	11	50	16.64	+07	29	49.6	17.1	VuEH076C73
K03WG6H	KC2012	04	27.82322	11	50	17.20	+07	29	45.2	17.1	VuEH076C73
K03WG6H	KC2012	04	27.82368	11	50	17.76	+07	29	41.1	17.2	VuEH076C73
K03WG6H	KC2012	04	27.82414	11	50	18.31	+07	29	37.0	17.3	VuEH076C73
K03WG6H	KC2012	04	27.82460	11	50	18.90	+07	29	32.7	17.3	VuEH076C73
K03WG6H	KC2012	04	27.82506	11	50	19.50	+07	29	28.3	17.4	VuEH076C73
K03WG6H	KC2012	04	27.82552	11	50	20.10	+07	29	23.8	17.4	VuEH076C73
K03WG6H	KC2012	04	27.82598	11	50	20.77	+07	29	19.1	17.5	VuEH076C73
K03WG6H	KC2012	04	27.82643	11	50	21.28	+07	29	15.0	17.6	VuEH076C73
K03WG6H	KC2012	04	27.82689	11	50	21.96	+07	29	10.3	17.5	VuEH076C73
K03WG6H	KC2012	04	27.82735	11	50	22.52	+07	29	06.3	17.5	VuEH076C73
K03WG6H	KC2012	04	27.82780	11	50	23.12	+07	29	01.9	17.4	VuEH076C73
K03WG6H	KC2012	04	27.82826	11	50	23.71	+07	28	57.4	17.4	VuEH076C73
K03WG6H	KC2012	04	27.82873	11	50	24.29	+07	28	53.2	17.3	VuEH076C73
K03WG6H	KC2012	04	27.82919	11	50	24.79	+07	28	49.3	17.3	VuEH076C73
K03WG6H	KC2012	04	27.82965	11	50	25.45	+07	28	44.6	17.3	VuEH076C73
K03WG6H	KC2012	04	27.83010	11	50	26.03	+07	28	40.2	17.2	VuEH076C73
K03WG6H	KC2012	04	27.83056	11	50	26.63	+07	28	35.7	17.0	VuEH076C73
K03WG6H	KC2012	04	27.83102	11	50	27.20	+07	28	31.5	17.0	VuEH076C73
K03WG6H	KC2012	04	27.83148	11	50	27.82	+07	28	27.0	17.0	VuEH076C73
K03WG6H	KC2012	04	27.83193	11	50	28.38	+07	28	22.9	17.0	VuEH076C73
K03WG6H	KC2012	04	27.83239	11	50	29.01	+07	28	18.3	17.1	VuEH076C73
K03WG6H	KC2012	04	27.83284	11	50	29.53	+07	28	14.3	17.1	VuEH076C73
K03WG6H	KC2012	04	27.83330	11	50	30.23	+07	28	09.3	17.2	VuEH076C73
K03WG6H	KC2012	04	27.83376	11	50	30.73	+07	28	05.5	17.0	VuEH076C73
K03WG6H	KC2012	04	27.83422	11	50	31.32	+07	28	01.2	17.2	VuEH076C73
K03WG6H	KC2012	04	27.83467	11	50	31.92	+07	27	56.7	17.3	VuEH076C73
K03WG6H	KC2012	04	27.83513	11	50	32.53	+07	27	52.4	17.4	VuEH076C73
K03WG6H	KC2012	04	27.83559	11	50	33.09	+07	27	48.1	17.3	VuEH076C73
K03WG6H	KC2012	04	27.83604	11	50	33.65	+07	27	43.8	17.7	VuEH076C73
K04RP2Q	KC2012	04	27.05294	14	12	04.98	-33	49	31.3	18.4	VuEH076I39
K04RP2Q	KC2012	04	27.06563	14	11	59.48	-33	49	13.6	18.3	VuEH076I39
K04RP2Q	KC2012	04	27.07852	14	11	53.80	-33	48	56.6	18.4	VuEH076I39
K09O00C	C2012	04	27.43487	14	45	23.786	-08	58	05.30	20.8	wLEH076F51
K09O00C	C2012	04	27.46482	14	45	21.696	-08	57	46.21	20.8	wLEH076F51
K09O00C	C2012	04	27.47986	14	45	20.641	-08	57	36.62	20.8	wLEH076F51
K10L14J	C2012	04	26.07326	16	03	59.64	+00	54	02.5	18.2	cEH076J43
K10L14J	C2012	04	26.09199	16	03	58.10	+00	54	19.1	18.1	cEH076J43
K10L14J	C2012	04	26.11074	16	03	56.50	+00	54	36.2	18.5	cEH076J43
K10L14J	C2012	04	26.12948	16	03	54.94	+00	54	53.3	18.2	cEH076J43
K10L14M	2C2012	04	25.33222708	46	46	201+14	27	42.61		24.0	RtEH076568
K10L14M	2C2012	04	25.34318508	46	47	391+14	27	50.01		23.5	RtEH076568
K11Q48D	KC2012	04	27.07162109	34	38	74	-06	32	21.1	19.0	VoEH076H21
K11Q48D	KC2012	04	27.07467109	34	39	42	-06	32	27.9	18.8	VoEH076H21
K11Q48D	KC2012	04	27.07745009	34	40	04	-06	32	34.5	18.3	VoEH076H21
K11Y15V	C2012	04	27.53644	12	36	36.57	-13	23	12.2	17.3	VuEH076379
K11Y15V	C2012	04	27.54773	12	36	36.93	-13	23	18.6		uEH076379
K11Y15V	C2012	04	27.56303	12	36	37.34	-13	23	27.9		uEH076379
K11Y15V	C2012	04	27.56525	12	36	37.39	-13	23	29.3		uEH076379
K11Y15V	C2012	04	27.56748	12	36	37.46	-13	23	30.2		uEH076379
K11Y15V	C2012	04	27.83789	12	36	47.33	-13	26	12.8	17.2	VuEH076C73
K11Y15V	C2012	04	27.83870	12	36	47.36	-13	26	13.5	17.4	VuEH076C73
K11Y15V	C2012	04	27.83951	12	36	47.39	-13	26	13.8	17.4	VuEH076C73
K11Y15V	C2012	04	27.84193	12	36	47.46	-13	26	15.3	17.3	VuEH076C73
K11Y15V	C2012	04	27.84274	12	36	47.50	-13	26	15.9	17.2	VuEH076C73
K11Y15V	C2012	04	27.84354	12	36	47.52	-13	26	16.2	17.2	VuEH076C73
K11Y15V	C2012	04	27.84597	12	36	47.58	-13	26	17.8	17.4	VuEH076C73
K11Y15V	C2012	04	27.84678	12	36	47.60	-13	26	18.0	17.1	VuEH076C73
K11Y15V	C2012	04	27.84759	12	36	47.64	-13	26	18.6	17.3	VuEH076C73
K11Y15V	C2012	04	27.85001	12	36	47.71	-13	26	20.0	17.2	VuEH076C73
K11Y15V	C2012	04	27.85081	12	36	47.72	-13	26	20.5	17.2	VuEH076C73
K11Y15V	C2012	04	27.85162	12	36	47.77	-13	26	20.9	17.2	VuEH076C73
K11Y15V	C2012	04	28.11429	12	36	57.99	-13	28	52.0	17.5	RoEH076G48
K11Y15V	C2012	04	28.11608	12	36	58.06	-13	28	52.8	17.6	RoEH076G48
K11Y15V	C2012	04	28.11780	12	36	58.10	-13	28	54.3	17.5	RoEH076G48

K11Y15V	C2012	04	28.11953	12	36	58.16	-13	28	55.2	17.6	RoEH076G48
K11Y15V	C2012	04	28.12128	12	36	58.19	-13	28	56.0	17.6	RoEH076G48
K11Y15V	C2012	04	28.12301	12	36	58.28	-13	28	57.3	17.9	RoEH076G48
K12A11A	C2012	04	27.23445	12	58	40.13	-19	31	25.4	17.9	cEH076704
K12A11A	C2012	04	27.24513	12	58	41.98	-19	31	55.0	18.2	cEH076704
K12A11A	C2012	04	27.25577	12	58	43.85	-19	32	25.5	18.0	cEH076704
K12A11A	C2012	04	27.26685	12	58	45.63	-19	32	55.7	17.7	cEH076704
K12A11A	C2012	04	27.27749	12	58	47.46	-19	33	25.2	17.6	cEH076704
K12A11A	C2012	04	27.58355	12	59	46.04	-19	47	26.7	17.2	VuEH076379
K12A11A	C2012	04	27.58541	12	59	46.35	-19	47	31.8		uEH076379
K12A11A	C2012	04	27.59150	12	59	47.37	-19	47	48.2		uEH076379
K12A11A	C2012	04	27.59336	12	59	47.70	-19	47	53.1		uEH076379
K12A11A	C2012	04	27.59521	12	59	47.99	-19	47	58.2		uEH076379
K12A11A	C2012	04	27.61073	12	59	50.60	-19	48	40.1		uEH076379
K12A11A	C2012	04	28.15675	13	01	35.56	-20	12	46.6	18.0	RoEH076G48
K12A11A	C2012	04	28.15769	13	01	35.72	-20	12	49.0	18.0	RoEH076G48
K12A11A	C2012	04	28.15861	13	01	35.87	-20	12	51.1	17.9	RoEH076G48
K12A11A	C2012	04	28.15954	13	01	36.02	-20	12	53.7	17.9	RoEH076G48
K12A11A	C2012	04	28.16047	13	01	36.19	-20	12	56.4	18.0	RoEH076G48
K12C21A	JC2012	04	27.34825	19	00	40.19	+70	47	18.0	19.5	RoEH076695
K12C21A	JC2012	04	27.35005	19	00	39.40	+70	47	14.5	19.5	RoEH076695
K12C21A	JC2012	04	27.35171	19	00	38.69	+70	47	11.3	19.5	RoEH076695
K12C21A	JC2012	04	27.35336	19	00	38.01	+70	47	08.1	19.5	RoEH076695
K12D14A	2C2012	04	25.47184312	39	18.334	+55	49	19.81		23.3	RtEH076568
K12D14A	2C2012	04	25.48280412	39	18.032	+55	49	03.51		23.5	RtEH076568
K12E14W	2C2012	04	25.62719320	57	55.503	-31	02	12.00		21.4	RtEH076568
K12E14W	2C2012	04	25.62980420	57	56.447	-31	02	10.49		21.3	RtEH076568
K12F01R	JC2012	04	27.27665	12	50	27.01	-21	57	18.1	20.9	RoEH076695
K12F01R	JC2012	04	27.28384	12	50	26.40	-21	57	13.9	20.6	RoEH076695
K12F01R	JC2012	04	27.28627	12	50	26.20	-21	57	12.6	20.6	RoEH076695
K12F62O	JC2012	04	27.30206	13	12	00.80	-15	41	47.3	21.3	RoEH076695
K12F62O	JC2012	04	27.30372	13	12	00.73	-15	41	46.4	21.3	RoEH076695
K12F62O	JC2012	04	27.30909	13	12	00.46	-15	41	42.1	21.2	RoEH076695
K12G00K	KC2012	04	28.17989	12	21	25.71	+40	42	10.9	18.6	RtEH076G56
K12G00K	KC2012	04	28.18693	12	21	25.06	+40	42	57.3	18.4	RtEH076G56
K12G00K	KC2012	04	28.19382	12	21	24.62	+40	43	38.5	18.2	RtEH076G56
K12G00K	KC2012	04	28.20133	12	21	23.94	+40	44	25.6	18.1	RtEH076G56
K12G11X	2C2012	04	25.63376416	03	57.065	+02	50	03.57		20.2	RtEH076568
K12G17V	JC2012	04	27.24238	12	02	04.99	-09	10	28.6	22.1	RoEH076695
K12G17V	JC2012	04	27.25004	12	02	04.02	-09	10	27.3	22.2	RoEH076695
K12G17V	JC2012	04	27.25785	12	02	03.02	-09	10	26.5	22.1	RoEH076695
K12H00L	C2012	04	28.12535	12	37	30.85	+10	26	55.5	18.1	RoEH076G48
K12H00L	C2012	04	28.12609	12	37	31.11	+10	27	03.1	18.1	RoEH076G48
K12H00L	C2012	04	28.12683	12	37	31.35	+10	27	11.1	18.4	RoEH076G48
K12H00L	KC2012	04	28.23272	12	38	05.94	+10	45	36.3	18.1	RtEH076G56
K12H00L	KC2012	04	28.23538	12	38	06.81	+10	46	04.5	17.7	RtEH076G56
K12H00L	KC2012	04	28.23805	12	38	07.66	+10	46	32.9	18.0	RtEH076G56
K12H00L	KC2012	04	28.24151	12	38	08.74	+10	47	09.3	17.3	RtEH076G56
K12H00M	C2012	04	27.82793	09	10	13.91	+68	32	35.3	15.4	RuEH076B42
K12H00M	C2012	04	27.82846	09	09	58.31	+68	32	36.3	15.4	RuEH076B42
K12H00M	C2012	04	27.82962	09	09	24.56	+68	32	39.1	15.3	RuEH076B42
K12H00M	C2012	04	27.83025	09	09	06.25	+68	32	40.0	15.3	RuEH076B42
K12H00M	C2012	04	27.83077	09	08	50.91	+68	32	40.7	15.4	RuEH076B42
K12H00M	C2012	04	27.83140	09	08	32.46	+68	32	42.3	15.5	RuEH076B42
K12H01J	JC2012	04	27.33686	14	48	45.83	-08	20	08.1	17.5	RoEH076695
K12H01J	JC2012	04	27.33798	14	48	45.67	-08	20	08.8	17.4	RoEH076695
K12H01J	JC2012	04	27.33863	14	48	45.56	-08	20	09.3	17.5	RoEH076695
K12H01J	JC2012	04	27.33930	14	48	45.44	-08	20	09.8	17.5	RoEH076695
K12H01J	C2012	04	27.40934	14	48	34.950	-08	20	56.67	18.9	iLEH076F51
K12H01J	C2012	04	27.42066	14	48	33.161	-08	21	04.59	19.0	iLEH076F51
K12H01J	C2012	04	27.43487	14	48	30.909	-08	21	14.49	19.3	wLEH076F51
K12H01J	C2012	04	27.44984	14	48	28.543	-08	21	24.90	19.3	wLEH076F51
K12H01J	C2012	04	28.18397	14	46	34.93	-08	30	03.8	18.2	VoEH076G48
K12H01J	C2012	04	28.18491	14	46	34.78	-08	30	04.5	18.3	VoEH076G48
K12H01J	C2012	04	28.18581	14	46	34.58	-08	30	05.3	18.2	VoEH076G48
K12H02O	C2012	04	27.40404	14	22	57.177	-06	06	12.83	20.1	iLEH076F51
K12H02O	C2012	04	27.41540	14	22	55.635	-06	05	40.89	20.1	iLEH076F51
K12H02O	C2012	04	27.42869	14	22	53.830	-06	05	03.55	20.3	wLEH076F51
K12H02O	C2012	04	27.44366	14	22	51.803	-06	04	21.52	20.2	wLEH076F51
K12H08G	mC2012	04	27.32927	13	05	27.84	-11	08	35.4		oEH076291
K12H08G	mC2012	04	27.33010	13	05	27.88	-11	08	32.0		oEH076291
K12H08G	mC2012	04	27.33091	13	05	27.90	-11	08	28.6		oEH076291
K12H08M	mC2012	04	27.32306	13	35	04.26	+12	34	52.0		oEH076291
K12H08M	mC2012	04	27.32389	13	35	04.59	+12	34	51.2		oEH076291
K12H08M	mC2012	04	27.32470	13	35	04.95	+12	34	49.8		oEH076291
K12H08M	JC2012	04	27.33014	13	35	07.30	+12	34	43.3	19.5	RoEH076695
K12H08M	JC2012	04	27.33088	13	35	07.63	+12	34	42.0	19.8	RoEH076695

K12H08M	JC2012	04	27.33163	13	35	07.95	+12	34	41.4	19.7	RoEH076695
K12H13N	C2012	04	27.43344	16	30	53.04	+00	50	10.8	19.9	VoEH076691
K12H13N	C2012	04	27.45120	16	30	58.74	+00	51	12.1	20.0	VoEH076691
K12H13N	C2012	04	27.46895	16	31	04.43	+00	52	13.5	19.6	VoEH076691
K12H13O	KC2012	04	27.29665	13	24	40.06	+03	05	12.8	21.3	RoEH076291
K12H13O	KC2012	04	27.29979	13	24	38.16	+03	04	50.5	20.6	RoEH076291
K12H13O	KC2012	04	27.30293	13	24	36.37	+03	04	27.8	20.9	RoEH076291
K12H13P	KC2012	04	26.82992	11	20	49.54	+52	53	02.2	16.3	RuEH076160
K12H13P	KC2012	04	26.83043	11	20	37.96	+52	52	18.8	15.7	RuEH076160
K12H13P	KC2012	04	26.83258	11	19	49.04	+52	49	17.6	15.8	RuEH076160
K12H13P	KC2012	04	26.83303	11	19	38.73	+52	48	38.4	15.8	RuEH076160
K12H13P	KC2012	04	27.81397607	16	18	18.46	+01	18	27.2	16.9	VvEH076B03
K12H13P	KC2012	04	27.82319307	15	14	14.02	+00	55	03.9	17.8	VvEH076B03
K12H13P	KC2012	04	27.83448807	13	56	56.75	+00	26	53.1	16.7	VvEH076B03
K12H13P	KC2012	04	27.83645907	13	43	43.26	+00	21	58.0	16.9	VvEH076B03
K12H20C	C2012	04	27.43197	14	28	22.942	-14	18	38.91	19.2	wLEH076F51
K12H20C	C2012	04	27.44695	14	28	20.044	-14	19	30.49	19.2	wLEH076F51
K12H20C	C2012	04	27.47693	14	28	14.231	-14	21	13.65	19.3	wLEH076F51
03103	C2012	04	27.26818	09	51	11.70	+34	33	41.9	18.9	VrEH076703
03103	C2012	04	27.27667	09	51	12.24	+34	33	35.8	18.5	VrEH076703
03103	C2012	04	27.28520	09	51	12.85	+34	33	32.4	18.3	VrEH076703
03103	C2012	04	27.29375	09	51	13.39	+34	33	28.0	18.2	VrEH076703
05836	C2012	04	27.28928	14	33	14.08	-21	14	59.7	16.9	cEH076704
05836	C2012	04	27.29997	14	33	13.29	-21	14	53.4	16.9	cEH076704
05836	C2012	04	27.31063	14	33	12.53	-21	14	47.2	16.8	cEH076704
05836	C2012	04	27.32157	14	33	11.72	-21	14	40.7	16.9	cEH076704
05836	C2012	04	27.33224	14	33	10.92	-21	14	34.5	16.6	cEH076704
07341	C2012	04	27.18564	12	14	32.80	-18	04	54.2	17.9	cEH076704
07341	C2012	04	27.19638	12	14	32.86	-18	04	45.5	18.1	cEH076704
07341	C2012	04	27.20698	12	14	32.95	-18	04	37.4	18.1	cEH076704
07341	C2012	04	27.21759	12	14	32.99	-18	04	28.9	18.2	cEH076704
07341	C2012	04	27.22850	12	14	33.11	-18	04	20.0	17.9	cEH076704
10636	C2012	04	27.55643	15	17	25.229	+03	27	24.63	19.5	rLEH076F51
10636	C2012	04	27.56685	15	17	24.240	+03	27	31.52	19.5	rLEH076F51
10636	C2012	04	27.57874	15	17	23.111	+03	27	39.18	19.3	iLEH076F51
10636	C2012	04	27.58995	15	17	22.055	+03	27	46.53	19.1	iLEH076F51
53110	KC2012	04	28.01079	18	21	21.38	+14	00	28.2	18.7	VuEH076C73
53110	KC2012	04	28.01563	18	21	21.19	+14	00	24.5	18.8	VuEH076C73
53110	KC2012	04	28.02046	18	21	20.93	+14	00	20.8	19.0	VuEH076C73
86667	C2012	04	27.14771	13	20	08.47	-03	32	11.7	16.6	VoEH076691
86667	C2012	04	27.16294	13	20	04.28	-03	31	23.4	16.6	VoEH076691
86667	C2012	04	27.17815	13	20	00.06	-03	30	34.9	16.5	VoEH076691
86667	C2012	04	27.79042	13	17	15.60	-02	58	11.6	17.0	VuEH076C73
86667	C2012	04	27.79128	13	17	15.37	-02	58	08.7	17.1	VuEH076C73
86667	C2012	04	27.79209	13	17	15.14	-02	58	06.0	17.1	VuEH076C73
86667	C2012	04	27.79291	13	17	14.91	-02	58	03.5	17.2	VuEH076C73
86667	C2012	04	27.79372	13	17	14.69	-02	58	00.7	17.0	VuEH076C73
86667	C2012	04	27.79451	13	17	14.46	-02	57	58.1	17.1	VuEH076C73
86667	C2012	04	27.79532	13	17	14.26	-02	57	55.7	17.4	VuEH076C73
86667	C2012	04	27.79613	13	17	14.01	-02	57	53.3	17.0	VuEH076C73
86667	C2012	04	27.79693	13	17	13.79	-02	57	50.6	17.1	VuEH076C73
86667	C2012	04	27.79774	13	17	13.57	-02	57	48.1	17.2	VuEH076C73
86667	C2012	04	27.79855	13	17	13.36	-02	57	45.6	17.1	VuEH076C73
86667	C2012	04	27.79935	13	17	13.15	-02	57	43.0	17.1	VuEH076C73
86667	C2012	04	27.80016	13	17	12.90	-02	57	40.0	17.2	VuEH076C73
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86667	C2012	04	27.80500	13	17	11.59	-02	57	24.9	17.1	VuEH076C73
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86667	C2012	04	27.81549	13	17	08.72	-02	56	51.9	17.3	VuEH076C73
86667	C2012	04	27.81628	13	17	08.51	-02	56	49.4	17.4	VuEH076C73
86667	C2012	04	27.81709	13	17	08.26	-02	56	46.5	17.1	VuEH076C73
86667	C2012	04	27.81789	13	17	08.03	-02	56	43.9	17.2	VuEH076C73

86667	C2012 04	27.81870	13	17	07.82	-02	56	41.5	17.3	VuEH076C73
D8847	C2012 04	27.45001	21	13	10.95	+08	59	03.0	19.4	VrEH076703
D8847	C2012 04	27.45745	21	13	11.96	+08	59	15.0	19.4	VrEH076703
D8847	C2012 04	27.46492	21	13	13.04	+08	59	28.1	19.4	VrEH076703
D8847	C2012 04	27.47318	21	13	14.30	+08	59	41.6	19.7	VrEH076703
E1018	C2012 04	27.46346	12	17	16.15	+26	53	20.5	16.0	VuEH076379
E1018	C2012 04	27.46531	12	17	16.59	+26	53	14.5	16.1	VuEH076379
E1018	C2012 04	27.46919	12	17	17.52	+26	53	01.6	15.9	VuEH076379
E1018	C2012 04	27.47894	12	17	19.88	+26	52	29.8	15.9	VuEH076379
F2754	C2012 04	27.23817	13	28	54.47	-19	39	05.7	17.7	cEH076704
F2754	C2012 04	27.24884	13	28	52.81	-19	38	48.0	17.8	cEH076704
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G2421	C2012 03	02.01187	08	44	55.02	-46	00	14.6	15.1	EH076H78
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I6822	C2012 04 27.15539 13 13 07.99 -04 11 56.1	20.4	VoEH076691
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L9527	C2012 04 27.42474 13 57 13.175-10 47 01.40	21.4	wLEH076F51
L9527	C2012 04 27.43971 13 57 12.236-10 46 57.47	21.4	wLEH076F51
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P8325	C2012 04 27.43837 14 48 31.453-13 45 02.53	21.4	wLEH076F51
P8325	C2012 04 27.45334 14 48 30.065-13 44 59.50	21.3	wLEH076F51
P8325	C2012 04 27.46832 14 48 28.702-13 44 56.83	21.4	wLEH076F51
P8325	C2012 04 27.48337 14 48 27.311-13 44 53.93	21.3	wLEH076F51

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